



REPUBLIC OF INDONESIA

LIST OF MEDIUM-TERM PLANNED EXTERNAL LOANS 2020-2024 - 2023 REVISION -



MINISTRY OF NATIONAL DEVELOPMENT PLANNING/
NATIONAL DEVELOPMENT PLANNING AGENCY
2023



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EXTERNAL LOANS 2020-2024
- 2023 REVISION -**

**Ministry of National Development Planning/
National Development Planning Agency**

Foreword

In order to achieve national development goals as stated in National Medium-Term Development Plan (*Rencana Pembangunan Jangka Menengah/ RPJMN*) 2002-2024, a considerable amount of development fund needs to be raised. Therefore, utilization of various potential sources of financing, including external loans, is necessary. In this regard, Minister for National Development Planning/Head of National Development Planning Agency (Minister for Planning) is mandated by prevailing regulations to coordinate the planning process for activities of ministries/agencies/SOEs/local governments proposed to be funded by External Loans. Under the planning process, the Loans are applied based on the principles of transparency, accountability, effectiveness, efficiency, prudence, political independence, and national security prioritization. Furthermore, jostling its efficiency, feasibility assessment are also applied under regulated criteria.

In accordance with Government Regulation Number 10 of 2011, which outlines the procedures for procurement of foreign loans and receipt of grants, and Minister of Development Planning Decree Number 4 of 2011, which details the procedures for planning, proposing, assessing, monitoring, and evaluating activities funded by foreign loans and grants, the Minister for National Development Planning has released a medium-term project list funded by foreign loans, commonly known as the Blue Book. This list, titled "List of Medium-Term Planned External Loans 2020-2024" or DRPLN-JM 2020-2024, was issued through Minister for National Development Planning's Decree Number KEP. 80/M.PPN/HK/10/2020. However, to accommodate national economic situation, particularly during the COVID-19 pandemic which impacted on the national economy, adjustments and changes has been made on December 29th, 2021, under the Decree of the Minister for National Development Planning/Head of the National Development Planning Agency Number KEP. 149/M.PPN/HK/12/2021. Following the conclusion of the COVID-19 pandemic, the Government of Indonesia is diligently striving to diligently pursue the predetermined development targets set for 2024. In light of this, it becomes imperative to reassess the alignment of Foreign Loans as a viable funding source that can expedite the nation's progress. Furthermore, it should be noted that the year 2024 signifies the culminating stage of the development phase within the National Medium-Term Development Plan (RPJMN) 2020-2024. To fulfill the mentioned target, Minister of National Development Planning through decree No. KEP.64/M.PPN/HK/05/2023 release the updated DRPLN-JM 2020-2024 (2023 revision).

The DRPLN-JM 2020-2024 (2023 revision) is expected to serve as guidance for the line ministries, agencies, local governments, as well as state-owned enterprises in preparing and taking further processes so the proposed projects can be implemented effectively and in a timely manner. As for bilateral and multilateral development partners, the document can be used as a reference in preparing steps and substances of their cooperation plans with the Government of the Republic of Indonesia.

Minister for National Development Planning/
Head of National Development Planning Agency,



Suharso Monoarfa

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Chapter 1

INTRODUCTION

1. Background

External Loans have been as a one of others source of funding that have been utilized by the Government of Indonesia to support the achievement of development target, as outlined in the Medium-Term National Development Plan (RPJMN) 2020-2024. In compliance with relevant regulations, the coordination of planning processes for External Loan projects/activities is entrusted to the List of Medium-Term Planned External Loans 2020-2024 (DRPLN-JM 2020-2024). This comprehensive list was officially issued through Decree of the Minister for National Development Planning/Head of the National Development Planning Agency Number KEP. 80/M.PPN/HK/10/2020. However, due to evolving development needs and shifting priorities, primarily driven by the dynamic economic landscape and the persistent impact of the COVID-19 pandemic, certain projects/activities identified in the DRPLN-JM 2020-2024 have been change and adapt to align with the prevailing circumstances. Consequently, a revision to the DRPLN-JM 2020-2024 was issued on December 29th, 2021, through Decree of the Minister for National Development Planning/Head of the National Development Planning Agency Number KEP. 149/M.PPN/HK/12/2021.

Since the COVID-19 pandemic started to recede and physical and social restrictions began to ease, the Indonesian government has refocused its efforts on achieving development targets that were previously hindered or delayed. One of the measures taken is to optimize sources of funding, including those derived from foreign loan schemes. Consequently, through Ministerial Decision No. KEP.64/M.PPN/HK/05/2023 of 2023, the DRPLN-JM 2020-2024 (2023 Revision) has been issued.

The DRPLN-JM 2020-2024 - 2023 Revision is issued for the purpose of accomodating country economy's dynamics, which needs to be followed by projects' adjustments in designs, addition of new projects, omission of projects whose loan agreement has been signed and also those which have been cancelled from external financing priorities project list for 2020-2024. As a result, the DRPLN-JM 2020-2024 (2023 revision) contains 77 projects under 25 programs which would be funded by external loan, with the total loan value of USD 29.44 billion. Projects with similar outcomes are subsequently incorporated under the same program (Program Based Approach /PBA).

2. Program Based Approach (PBA)

External Loan planning process consists of 3 (three) planning stages which are resumed into 3 (three) External Loan planning documents, namely: (i) the List of Medium-Term Planned External Loans or *Daftar Rencana Pinjaman Luar Negeri Jangka Menengah (DRPLN-JM)*/ Blue Book, (ii) the List of Planned Priority External Loans or *Daftar Rencana Prioritas Pinjaman Luar Negeri (DRPPLN)*/ Green Book (iii) *Daftar Kegiatan*. Once *Daftar Kegiatan* is issued for each project listed in the documents, Loan Agreement between the Government of Indonesia and relevant Development Partners then can be proceed. The stages are as illustrated in the following picture:

Diagram 1. The Planning Documents of External Loan Projects



The DRPLN-JM 2020-2024, which is an External-Loan five-year plan thus contains long list of External Loan projects is the first stage of the planning process for the period of 2020-2024. It is presented using a Program Based Approach (PBA) format, through which a group of external loan projects with similar outcomes is put under one program. A program may consist of one or more project(s) with one or more executing agency(ies). The PBA is aimed at increasing effectiveness of external loan utilization by focusing more on the achievement of the project outcomes, which is referred from the RPJMN development agenda. Hence, links between the utilization of external loans and the RPJMN's objectives can be easily identified through this approach. In this context, redesigns/ changes/ additions of project's is possible, so long as it does not exceed budget ceiling allocated under the same Program. Substances of changes can be presented in the *Blue Book* revision (when deemed necessary) or in the annual planning document called the List of Planned Priority External Loans or *Daftar Prioritas Pinjaman Luar Negeri (DRPPLN)*, widely known as Green Book. Although referred from RPJMN, however, the term "Program" under the PBA stated in the External Loan planning documents (DRPLN-JM/Blue Book, DRPPLN/Green Book) is different from that stated in the RPJMN, as "Program" in RPJMN covers projects/activities funded by the State Budget (where projects financed by External Loans are also part of), and would be the basis for the formulation of the state Budget Plan or *Rancangan Anggaran Pendapatan dan Belanja Negara (RAPBN)*.

Projects stated in the DRPLN-JM 2020-2024 – 2023 Revision shall be further prepared by the executing agencies (ministries, lines, state-owned enterprises, and local governments) towards the next planning process according to regulated mechanisms and criteria (readiness criteria). By complying to such procedures, the planned projects are expected to be well implemented hence can contribute to the achievement of National Development Agenda 2020-2024.

Chapter 2

DRPLN-JM 2020–2024

- 2023 Revision -

In accordance with the needs and the dynamics of national economy, the government issues revision of the List of Medium-Term Planned External Loans or *Daftar Rencana Pinjaman Luar Negeri Jangka Menengah (DRPLN-JM)/ Blue Book 2002-2024*. Previously DRPLN-JM/Blue Book 2020-2024 consists of 73 the proposed projects under 25 programs with the total loan amount of USD 25.37 billion. In revision of DRPLN-JM/Blue Book 2020-2024 issued on December 2021, the total project become 84 projects with 25 programs. In revision of DRPLN-JM/Blue Book 2020-2024 issued on Juni 2023, the total project become 77 projects with 25 programs. Based on sectors, the projects are mostly infrastructures (70%), while the rests are non-infrastructures (30%), which can be seen in the following chart (Diagram 1).

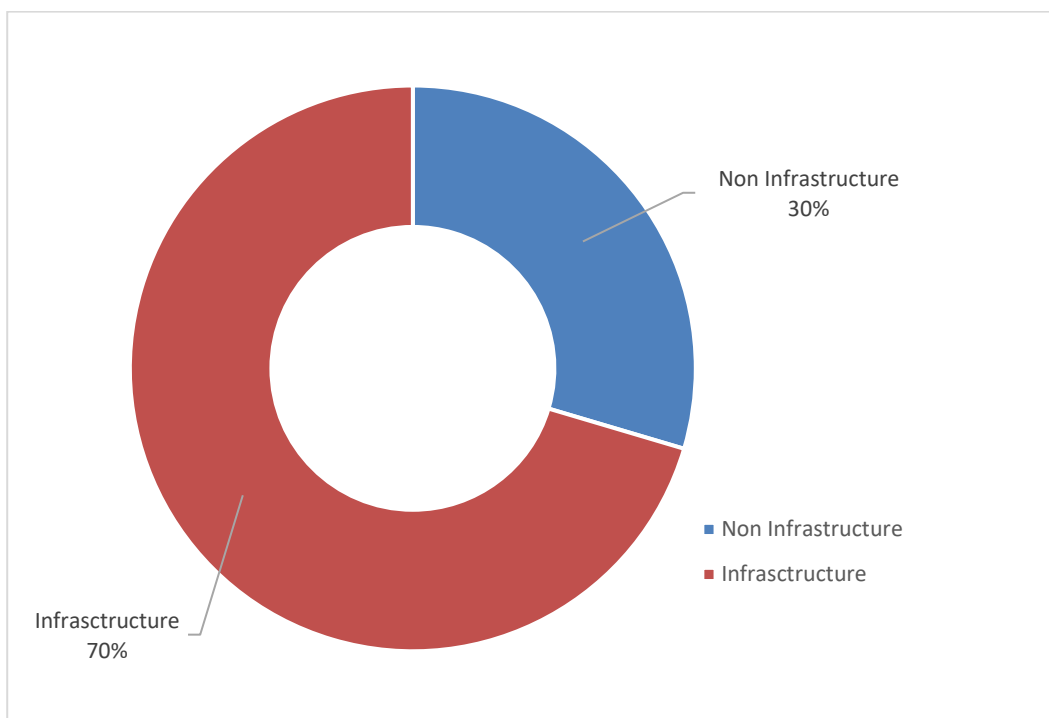


Diagram 2. Figure Share of Sector's Portion by Total Amount of Loan (in terms of total USD planned)

The recapitulation of projects in the DRPLN-JM 2020-2024 (2023 revision) by programs are shown in Table 1, while the overall list of programs and projects as stipulated in the Ministerial Decree of National Development Planning/ Head of National Development Planning Agency Number KEP. KEP.64/M.PPN/HK/05/2023 is shown in Table 2.

The Medium-Term Development Plan (RPJMN) 2020-2024 stipulates 7 Development Agendas to support the achievement of National Development Goals 2020-2024, hence projects funded by foreign loans is required to be aligned with these Agendas. Therefore, the project proposals submitted by Executing Agencies also include the accordance between project outputs and the National Development Agendas. Number of projects supporting each agenda are shown below, some of the projects can support more than one Development Agenda since the Development Agendas is commonly of cross-sectors nature thus need interagency effort to achieve.

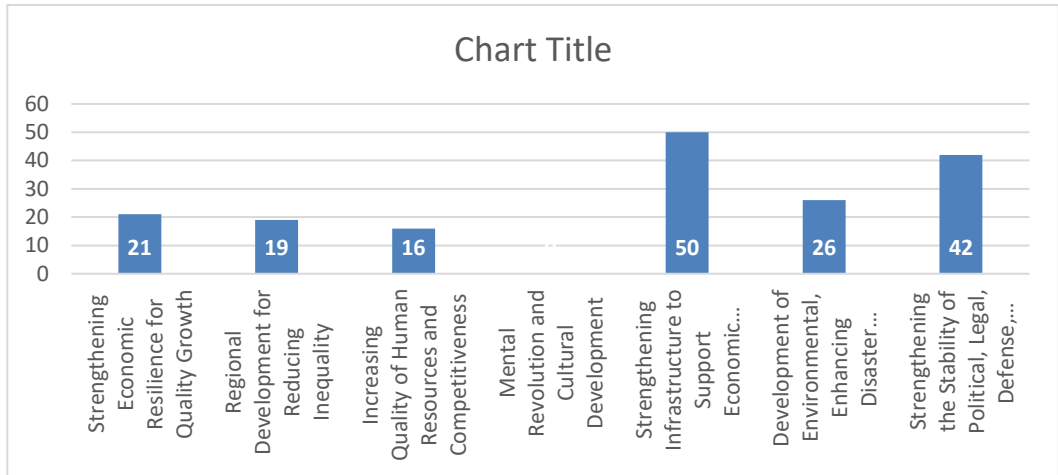


Diagram 4. Figure Share of Portfolio for each Development Agenda (in terms of total number of Projects)

**Table 1. Recapitulation of DRPLN-JM 2020-2024 (2023 Revision) by Program
(in Thousand USD)**

Program		Loan
Infrastructure		20,727,656
1	Multipurpose Storage for Water, Food, Flood, and Energy Program	2,038,200
2	Disaster Resilience Infrastructure Program	1,762,000
3	Toll Road Development Program	2,860,343
4	Road and Bridge Development/Improvement Program	1,205,000
5	Slum Alleviation Program	240,000
6	Sanitation and Waste Development Program	1,098,000
7	Urban Mass Transportation Development Program	5,079,632
8	Transportation Safety and Security Improvement Program	460,471
9	Marine Connectivity Infrastructure Development Program	991,990
10	Information and Communication Technology Infrastructure Development Program	2,457,549
11	Enhancement of Search and Rescue Facility Program	126,253
12	Electricity Infrastructure Development Program	1,183,218
13	Green Housing Finance Facility Program	500,000
14	Development of Communication System for Disaster Management	725,000
Non-Infrastructure		8,710,285
15	Fisheries and Marine Management Program	1,702,180
16	Health Services Improvement Program	4,531,644
17	Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program	51,369
18	Food Transformation and Agricultural Value-Added Program	625,000
19	Village Development Program	76,345
20	State Apparatus Enhancement Program	240,000
21	Vocational Training Enhancement Program	164,800
22	Geospatial Information Management Program	868,330
23	Security and Safety Program in Indonesian Waters and Indonesian Jurisdictions	180,000
24	Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program	110,617
25	Counter Terrorism Program	160,000
GRAND TOTAL		29,437,941

Table 2. List of Programs and Projects in DRPLN-JM 2020-2024 (2023 Revision)
(in Thousand USD)

No	Program/ Project	Executing Agency	Loan
1	Multipurpose Storage for Water, Food, Flood, and Energy Program		2,038,200
	<i>a. Water Resources Development in the Eastern Semarang through Upgrade of the Kedung Ombo Dam, Central Java Province, Indonesia</i>	Ministry of Public Works and Housing	100,000
	<i>b. The Project for Upgrading Dams under Operation in Brantas River Basin</i>		313,200
	<i>c. Jenelata Dam Construction Project</i>		300,000
	<i>d. Riam Kiwa Dam Construction Project</i>		250,000
	<i>e. Pelosika Dam Construction Project</i>		510,000
	<i>f. River Basin Improvement Program: Modernization of National Water Resources Information System</i>		50,000
	<i>g. Asahan Irrigation Development in North Sumatera</i>		515,000
2	Disaster Resilience Infrastructure Program		1,762,000
	<i>a. Comprehensive Disaster Reduction and Management Improvement of Jeneberang River Basin</i>	Ministry of Public Works and Housing	288,000
	<i>b. Flood Management and Coastal Protection in North Java</i>		500,000
	<i>c. Integrated Urban Flood Management Project in JABODETABEK</i>		800,000
	<i>d. Urgent Disaster Reduction of Mt. Semeru, Mt. Kelud, Mt. Agung, and Other Erupted Volcanoes in Indonesia</i>		174,000
3	Toll Road Development Program		2,860,343
	<i>a. Toll Road Development in Sumatra Islands: Jambi-Rengat (Sp. Ness – Sentjatang)</i>	Ministry of Public Works and Housing	1,624,371
	<i>b. Development of New Tunnels Alignment in Payakumbuh-Pangkalan Toll Road</i>		427,000
	<i>c. The Development of Kuala Tanjung-Tebing Tinggi-Parapat Toll Road</i>		536,030

No	Program/ Project	Executing Agency	Loan
	<i>d. Toll Road Development of Serang-Panimbang Section III (Cileles-Panimbang Section) Phase II</i>		272,942
4	Road and Bridge Development/ Improvement Program		1,205,000
	<i>a. Development of Trans South – South Java Road Project Phase II</i>	Ministry of Public Works and Housing	300,000
	<i>b. Long Span Bridge Development for Selected Area</i>		300,000
	<i>c. Kalimantan Border Road Development Project</i>		605,000
5	Slum Alleviation Program		240,000
	<i>a. Livable Settlement Investment Project (LSIP)</i>	Ministry of Public Works and Housing	150,000
	<i>b. Regency Settlement Infrastructure Development (RSID)</i>		90,000
6	Sanitation and Waste Development Program		1,098,000
	<i>a. Solid Waste Management for Sustainable Urban Development</i>	Ministry of Public Works and Housing	150,000
	<i>b. Wastewater Development System for City Wide Inclusive Sanitation</i>		598,000
	<i>c. Local Service Delivery Improvement Project (LSDP)</i>	Ministry of Home Affairs	350,000
7	Urban Mass Transportation Development Program		5,079,632
	<i>a. Implementation Project of Public Transportation System</i>	Ministry of Transportation	468,938
	<i>b. Construction of Jakarta Metropolitan Mass Rapid Transit East-West Line Project Phase I Stage I</i>		3,129,000
	<i>c. Engineering Services of Jakarta Metropolitan Mass Rapid Transit East - West Line Project Phase I Stage II</i>		106,115
	<i>d. Construction of Jakarta Mass Rapid Transit Project North-South Phase 2</i>		1,125,579
	<i>e. Surabaya Regional Railway Line (Phase I)</i>		250,000
8	Transportation Safety and Security Improvement Program		460,471
	<i>a. Procurement of Third-Class Navigation Vessel</i>	Ministry of Transportation	130,818

No	Program/ Project	Executing Agency	Loan
	<i>b. Construction/Procurement of Class 1 Patrol Vessel</i>		244,863
	<i>c. Indonesia Air Transport Connectivity Enhancement</i>		84,790
9	Marine Connectivity Infrastructure Development Program		991,990
	<i>a. Patimban Port Development Project (II)</i>	Ministry of Transportation	714,790
	<i>b. Port-Led Development</i>		277,200
10	Information and Communication Technology Infrastructure Development Program		2,457,549
	<i>a. Digitalization of Broadcasting System</i>	Ministry of Communications and Information Technology	373,154
	<i>b. Strengthening of e-Government Infrastructure Phase 2</i>		720,000
	<i>c. Procurement of Multifunctional Satellite-2 (SATRIA-2)</i>		864,395
	<i>d. Strengthening Population and Civil Registration and Introduction of Digital Identity for Inclusive Service Delivery and Digital Transformation in Indonesia</i>	Ministry of Home Affairs	250,000
	<i>e. Strengthening Cyber Security Ecosystem In Indonesia</i>	National Cyber and Crypto Agency	250,000
11	Fisheries and Marine Management Program		1,702,180
	<i>a. Integrated of Fishing Ports and International Fish Markets Phase I</i>	Ministry of Maritime Affairs and Fisheries	199,038
	<i>b. Maritime and Fisheries Integrated Surveillance System</i>		159,500
	<i>c. Integrated of Fishing Ports and International Fish Market Phase II</i>		400,000
	<i>d. Maritime and Fisheries Integrated Surveillance System Phase II</i>		200,000
	<i>e. Integrated and Revitalization Shrimp Farming Program</i>		500,000
	<i>f. Development of the System for Monitoring and Controlling for Marine Space Utilization</i>		80,000
	<i>g. Satellite Constellation Mission for Marine and Fisheries Resources</i>		163,642
12	Health Services Improvement Program		

No	Program/ Project	Executing Agency	Loan
	<i>a. Improvement of Facilities and Infrastructure for Teaching and Learning Activities in Health Sector Project</i>	Ministry of Health	109,400
	<i>b. Strengthening Indonesia's Healthcare Referral Network</i>		1,802,550
	<i>c. Strengthening of Primary Healthcare in Indonesia</i>		1,586,623
	<i>d. Indonesia-Public Laboratory System Strengthening</i>		589,600
	<i>e. Construction of General Hospital Haji Medan to International Standard</i>	Government of North Sumatra Province	66,712
	<i>f. Procurement of Medical Equipment for Ministry of Defense</i>	Ministry of Defence	49,540
	<i>g. Procurement of Medical Equipment for Military Health Center</i>		5,980
	<i>h. Upgrading Medical Equipment and Support for Army Hospitals</i>		187,704
	<ul style="list-style-type: none"> Upgrading Medical Equipments and Supporting Facilities for Army Hospital Dustira 		10,000
	<ul style="list-style-type: none"> Upgrading Medical Equipments and Supporting Facilities for Army Hospital Soedjono 		15,000
	<ul style="list-style-type: none"> Upgrading Medical Equipments and Supporting Facilities for Army Hospital Pelamonia 		10,000
	<ul style="list-style-type: none"> Upgrading Medical Equipments for Army Hospital dr. AK Gani 		13,728
	<ul style="list-style-type: none"> Upgrading Medical Equipments and Supporting Facilities for Army Hospital Salak 		10,388
	<ul style="list-style-type: none"> Upgrading Medical Equipments for Army Hospital dr. R Hardjanto 		11,002
	<ul style="list-style-type: none"> Upgrading Medical Equipments for Army Hospital Kartika Husada 		9,158
	<ul style="list-style-type: none"> Upgrading Medical Equipments for Army Hospital Prof. Dr. J. A. Latumeten Hospital 		7,628
	<ul style="list-style-type: none"> Upgrading Medical Equipments for Army Hospital Marthen Indey 		9,499

No	Program/ Project	Executing Agency	Loan
	<ul style="list-style-type: none"> Upgrading Medical Equipments for Army Hospital Moh Ridwan Meuraksa 		11,894
	<ul style="list-style-type: none"> Upgrading Medical Equipments for Army Hospital Iskandar Muda 		12,057
	<ul style="list-style-type: none"> Procurement of Field Hospital for Kodam XVI Pattimura, Kodam XVII Cendrawasih, and Kodam XVIII Kasuari 		30,793
	<ul style="list-style-type: none"> Procurement of Medical Equipment and Supporting Facilities for Pharmaceutical Institute, Army Medical Center 		5,657
	<ul style="list-style-type: none"> Procurement of Medical Equipment and Supporting Facilities for Biomedical Institute, Army Medical Center 		5,657
	<ul style="list-style-type: none"> Procurement of Medical Equipment for Biology Vaccine Institute, Army Medical Center 		3,959
	<ul style="list-style-type: none"> Procurement of Medical Equipment and Supporting Facilities for Medical Equipment Institute, Army Medical Center 		3,959
	<ul style="list-style-type: none"> Procurement of Medical Equipment for Army Hospital Rumkit Tk. IV Gorontalo 		8,274
	<ul style="list-style-type: none"> Procurement of Medical Equipment and Supporting Facilities for Army Hospital dr. Noesmir Baturaja 		9,051
	<i>i. Upgrading Medical Equipment and Support for Navy Hospitals</i>		55,358
	<ul style="list-style-type: none"> Upgrading Medical Equipments and Supporting Facilities for Naval Hospital dr. Midiyato Suratani and Naval Hospital dr. Komang Belawan 		13,503
	<ul style="list-style-type: none"> Upgrading Medical Equipments and Supporting Facilities for Naval Hospital dr. Ilyas and Naval Hospital dr. R Ghandi AT 		8,785

No	Program/ Project	Executing Agency	Loan
	<ul style="list-style-type: none"> Upgrading Medical Equipments and Supporting Facilities for Naval Hospital dr. Mintohardjo 		15,434
	<ul style="list-style-type: none"> Procurement of Field Hospital for Marine Corps Health Batallion 		10,264
	<ul style="list-style-type: none"> Procurement of Medical Equipment for Naval Hospital Teeth and Mouth R.E. Martadinata 		7,372
	<i>j. Upgrading Medical Equipment and Support for Air Force Hospitals</i>		78,177
	<ul style="list-style-type: none"> Improvement of Capabilities and Capacities Medical Services at Air Force Hospital dr. Kresno Manuhua 		20,000
	<ul style="list-style-type: none"> Improvement of Capabilities and Capacities Medical Services at Air Force Hospital dr. Hoediyono 		20,000
	<ul style="list-style-type: none"> Improvement of Capabilities and Capacities Medical Services at Air Force Hospital El Tari 		20,000
	<ul style="list-style-type: none"> Procurement of Field Hospital for Airforce 		8,335
	<ul style="list-style-type: none"> Improvement of Capabilities and Capacities Medical Services at RSAU dr. Efram Harsana 		9,842
13	Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program		
	<i>a. Acquisition of Indonesian Biodiversity as Fundamental Sources for Research and Innovation</i>	National Research and Innovation Agency	51,369
14	Food Transformation and Agricultural Value-Added Program		625,000
	<i>a. Dry Land Agriculture Development Project</i>	Ministry of Agriculture	125,000
	<i>b. Climate Resilient and Low Carbon Agricultural Development in Indonesia</i>		500,000
15	Village Development Program		76,345
	<i>a. Enhancing BUM Desa Capacity and Infrastructure for The Digitalization of Villages Economic</i>	Ministry of Villages, Disadvantaged	76,345

No	Program/ Project	Executing Agency	Loan
		Regions, and Transmigration	
16	State Apparatus Enhancement Program		240,000
	<i>a. Strengthening Management of Apparatus Talents (SMART)</i>	Ministry of National Development Planning/ National Development Planning Agency	<i>100,000</i>
	<i>b. Transformation of State Apparatus Competency Development</i>	National Institute of Public Administration (NIPA)	<i>140,000</i>
17	Vocational Training Enhancement Program		164,800
	<i>a. Development of Vocational Training Centers</i>	Ministry of Manpower	<i>14,800</i>
	<i>b. Labor Market Information and Skills System Transformation for Labor Market Flexibility (LISTRAF)</i>		<i>150,000</i>
18	Geospatial Information Management Program		868,330
	<i>a. Integrated Land Administration, Spatial Planning and Provision of Large-Scale Base Map Project</i>	Ministry of Agrarian and Spatial Planning/ National Land Agency	<i>868,330</i>
19	Security and Safety Program in Indonesian Waters and Indonesian Jurisdictions		180,000
	<i>a. National Maritime Security System</i>	Indonesia Coast Guard	<i>180,000</i>
20	Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program)		110,617
	<i>a. Strengthening Flight Information Region and Development of Aviation Meteorology Services in Eastern Indonesia</i>	Meteorological, Climatological, and Geophysical Agency	<i>26,617</i>
	<i>b. Enhancing National Climate and Air Quality Services</i>		<i>50,000</i>

No	Program/ Project	Executing Agency	Loan
	<i>c. Enhancement of Indonesian Weather Radar Network for Extreme Weather Warning Capabilities</i>		34,000
21	Enhancement of Search and Rescue Facility Program		126,253
	<i>a. Procurement of Search and Rescue Helicopter Medium Class and Procurement of Rigid Buoyancy Boat</i>	National Search and Rescue Agency	93,744
	<i>b. Improving Public Resilience of Fire Risk Through the Development of Regional Firefighting Infrastructure & Human Resources</i>	Ministry of Home Affairs	32,509
22	Counter Terrorism Program		160,000
	<i>a. Countering Terrorism and Preventing Violent Extrimism</i>	National Counter Terrorism Agency	160,000
23	Electricity Infrastructure Development Program		1,183,218
	<i>a. Additional Loan PLTA Asahan 3(2 x 87 MW)</i>	State Electricity Company	152,318
	<i>b. Matenggeng Pumped Storage Hydro Electrical Power Plant (943 MW)</i>		826,900
	<i>c. Hululais Geothermal Power Plant 1&2 (2x55 MW)</i>		204,000
24	Green Housing Finance Facility Program		500,000
	<i>a.Green, Affordable, and Climate-Resilient Housing Blended Finance Facility</i>	Ministry of Public Works and Housing	500,000
25	Development of Communication System for Disaster Management		725,000
	<i>a.Mobile Broadband for National Public Protection and Disaster Relief (PPDR)</i>	Ministry of Communications and Information Technology	475,000
	<i>b. Development of Early Action for Disaster Risk Management Ecosystem in Indonesia</i>	National Agency for Disaster Management	250,000
	TOTAL		29,437,941

Chapter 3

PROJECT DIGESTS

This chapter presents project digest of DRPLN-JM 2020-2024 (2023 revision). The project digest is a summary of information regarding the project which covers executing agency, implementing agency, background, scope of work, output, outcome, duration of implementation, location, amount of loan, and counterpart funding. In this chapter listed 77 project digests which are categorized in 25 programs.

Multipurpose Storage for Water, Food, Flood, and Energy Program

Ministry of Public Works and Housing

-
- | | |
|-------------------------------|---|
| 1. Project Title | : Water Resources Development in the Eastern Semarang through Upgrade of the Kedung Ombo Dam, Central Java Province, Indonesia |
| 2. Program Title | : Multipurpose Storage for Water, Food, Flood, and Energy Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Water Resources |
| 5. Duration | : 96 months |
| 6. Location | : Central Java Province |
-

7. Objectives

Water resources development is expected to establish and expand the sustainable socio-economic in Semarang and Demak area through additional water sources for existing Klambu-Kudu Canal and Jatibarang Dam, mitigation on land subsidence in the Eastern Semarang, also control of river water and dam operation.

8. Scope of Works

- a. Study and design of the project
 - i. Detailed design of the priority project
 - ii. Project implementation
 - iii. Inter basin transfer system
- b. Civil Works
 - i. Tunneling works for inter basin water transfer
 - ii. New intake construction
 - iii. Installation of control gate on spillway
 - iv. Monitoring and water management system (dam control system)
 - v. Water conveyance canal to Semarang
- c. Effective use of river water
 - i. Rehabilitation of Irrigation System
 - ii. Empowerment of Water Users Association

9. Outputs

- a. Inter Basin Transfer System
 - i. Tunnel for inter basin water transfer (10km, 5m³/s)
 - ii. Intake facilities at Tuntang River
- b. Kedung Ombo Dam Upgrade
 - i. Additional intake for municipal water supply (2 m³/s)
 - ii. Flood gate at spillway overflow section for changing NWL (1 m)
 - iii. Flood gate at emergency spillway for flood control (if necessary)
- c. Operation and Maintenance
 - i. Rehabilitation of dam monitoring system
 - ii. Installation of dam operation system
 - iii. Preparation of dam operation and maintenance manual
 - iv. Raw water conveyance system to Semarang

10. Outcomes

- a. Mitigation on drought damages in the Eastern Semarang,
- b. Mitigation on land subsidence by means of restriction of groundwater usage,
- c. Increased agricultural products, and
- d. Enhancement of living standard in the urban and rural area of the Eastern Semarang

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services

12. Project Cost

<ul style="list-style-type: none">• Foreign Funding		<ul style="list-style-type: none">• Counterpart Funding	
- Loan	: US\$ 100,000,000	- Central Government	: US\$ 4,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
<hr/>		<hr/>	
Subtotal	: US\$ 100,000,000	Subtotal	: US\$ 4,000,000
TOTAL : US\$ 104,000,000			

1. Project Title	: The Project for Upgrading Dams under Operation in Brantas River Basin
2. Program Title	: Multipurpose Storage for Water, Food, Flood, and Energy Program
3. Executing Agency	: Directorate General of Water Resources, Ministry of Public Works and Housing
4. Implementing Agency	: 1) Directorate of Dam and Lake 2) Directorate of Operation & Maintenance 3) Balai Besar Wilayah Sungai Brantas (BBWS Brantas)
5. Duration	: 60 months
6. Location	: Blitar, Sukowilangun, Kalipare, Malang, East Java Brantas River Basin

7. Objectives

Upgrading dams in the Brantas River Basin is expected to achieve sustainable water usage in the river basin through comprehensive sediment control construction and dam management.

8. Scope of Works

- a. Detailed design for countermeasures against sedimentation in dams
- b. Preparation of tender documents
- c. Construction works of countermeasures
- d. Technical assistance for technological enhancement of dam management

9. Outputs

- a. Sediment Flushing Tunnel (1-2km) / Sediment bypass (15km)
- b. Functional enhancement equipment of Sutami dam
- c. Enhancement of dam management
- d. Comprehensive Sediment management in Brantas River Basin
- e. Project supervision

10. Outcomes

- a. Availability of sediment flushing facility of Sutami Dam
- b. Availability of functional enhancement equipment of Sutami dam
- c. Availability of technological enhancement of dam management
- d. Supervision documentation

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Developing environment, enhancing disaster resilience and climate change

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	313,200,000	- Central Government	: US\$	15,300,000
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	313,200,000	Subtotal	: US\$	15,300,000
<hr/>			<hr/>		
TOTAL		: US\$ 328,500,000			

-
- 1. **Project Title** : **Jenelata Dam Construction Project**
 - 2. **Program Title** : Multipurpose Storage for Water, Food, Flood, and Energy Program
 - 3. **Executing Agency** : Ministry of Public Works and Housing
 - 4. **Implementing Agency** : Directorate General of Water Resources
 - 5. **Duration** : 60 months
 - 6. **Location** : Gowa, South Sulawesi Province
-

7. Objectives

The Jenelata dam is expected to provide great benefits, especially to meet the supply of raw water, provide electricity through hydropower plants, support agricultural production through water supply for irrigation, water conservation, and tourism.

8. Scope of Works

- a. Construct a multipurpose dam along with its appurtenant and complimentary structures
- b. Rehabilitate the existing access road
- c. Construct hydropower facilities at the dam to meet the community’s needs for electricity
- d. Improve and enhance the irrigation network

9. Outputs

- a. Multipurpose dam with a total storage of 285 Million m³ together with its appurtenant and complimentary structures
- b. Hydropower facilities in the dam to meet the community’s needs for electricity

10. Outcomes

- a. Fulfilling the community's raw water needs with a water discharge of 6.05 m³/s
- b. Providing ± 7 MW electricity supply through hydropower;
- c. Supporting local agriculture production by providing irrigation water for 26,773 Ha of the cropping area
- d. Flood control in the Jenelata river basin

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support the development of economic and basic services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 300,000,000 - Grant : US\$ 0 <hr style="width: 100%;"/> <p>Subtotal : US\$ 300,000,000</p>	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 52,940,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 <hr style="width: 100%;"/> <p>Subtotal : US\$ 52,940,000</p>
<p>TOTAL : US\$ 352,940,000</p>	

1. Project Title	: Riam Kiwa Dam Construction Project
2. Program Title	: Multipurpose Storage for Water, Food, Flood, and Energy Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Water Resources
5. Duration	: 60 months
6. Location	: Banjar Regency, South Kalimantan Province

7. Objectives

- a. Performing water resources conservation
- b. Environmental preservation
- c. Flood control in Banjar, Kalimantan Selatan
- d. Build a hydroelectric power plant to supply electrical energy to the community
- e. Conserving the forest
- f. Improvement of irrigation installation
- g. Provide water for conservation
- h. Raw water supply

8. Scope of Works

- a. Conducting conservation, environmental preservation and flood control
- b. Constructing the Riam Kiwa Multipurpose Dam with supporting facilities
- c. Build a hydroelectric power plant to supply electrical energy to the community
- d. Improvement of irrigation installation

9. Outputs

- a. Multipurpose dam or storage with a capacity of 88.83 million m³ with supporting facilities
- b. Hydropower building to supply electrical energy for the community

10. Outcomes

- a. Fulfillment of raw water 4.5 m³/second
- b. Fullfilment of 1800 hectares of irrigation water
- c. Supplying electrical energy through ± 6 MW hydropower plant
- d. Flood control

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support the development of economic and basic services.

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	250,000,000	- Central Government	: US\$	44,120,000
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	250,000,000	Subtotal	: US\$	44,120,000
TOTAL : US\$ 294,120,000					

1. Project Title	: Pelosika Dam Construction Project
2. Program Title	: Multipurpose Storage for Water, Food, Flood, and Energy Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Water Resources
5. Duration	: 60 months
6. Location	: Konawe Regency, South East Sulawesi Province

7. Objectives

- Building a hydroelectric power plant to supply electrical energy to the community
- Construct embankment to withstand or control flooding
- Irrigation installation improvement
- Increase income from tourism sector through the development of tourism area destination

8. Scope of Works

- Constructing the Pelosika Multipurpose Dam with supporting facilities
- Build a hydroelectric power plants to supply electrical energy to the community
- Improvement of irrigation installations

9. Outputs

- Multipurpose dam or storage with a capacity of 831.80 million m³ with supporting facilities
- Hydropower building to supply electrical energy for the community

10. Outcomes

- Fulfillment of raw water 0.75 m³/second
- Supporting the increase in agricultural production by providing irrigation water for an area of 22,764 hectares
- Supplying electrical energy through 2 x 10.5 MW hydropower plant
- Flood control of 549.42 m³/s

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support the development of economic and basic services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 510,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 90,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
Subtotal : US\$ 510,000,000	Subtotal : US\$ 90,000,000
TOTAL : US\$ 600,000,000	

1. **Project Title** : **River Basin Improvement Program: Modernization of National Water Resources Information System**
 2. **Program Title** : Multipurpose Storage for Water, Food, Flood, and Energy Program
 3. **Executing Agency** : Ministry of Public Works and Housing
 4. **Implementing Agency** : Directorate General of Water Resources
 5. **Duration** : 48 months
 6. **Location** : Nation-wide, scattered in river basin territories/provinces
-

7. Objectives

River basin improvement programs is expected to modernize and improve the water resources information system in Indonesia through formulating a road map, implement a plan of water resources information system management, provide modern H3 observation post monitoring network system, improve analytical tools for water resources assessment, and hydrological modeling, and capacity building. This information system aims to support planning development, monitoring, and evaluation.

8. Scope of Works

- a. A modern and nationally integrated water resources information system;
- b. Road map and implementation plan of water resources information system management;
- c. Monitoring system of modernized observation posts network H3, including data system and ICT;
- d. Government regulation regarding the development of water resources information systems;
- e. Skilled officers and experts in the management of water resources information systems;
- f. Pilot project for managing the H3 observation posts network by the private sector with Performance Base Contract (PBC);
- g. Availability of analytical tool for water assessment and hydrological modeling, flooding and drought.

9. Outputs

- a. Number of Water Resource Information System Applications at 'Balai' and Central Government;
- b. Number of Road Map Documents;
- c. Number of River Basin Areas (WS) which have been modernized H3 monitoring post monitoring systems;
- d. Number of government regulations that have been made;
- e. Number of skilled and expert personnel in managing natural resources information;
- f. Number of pilot projects to manage H3 monitoring posts network by private sector under Performance Base Contract (PBC);
- g. Number of analytical tools for water resources assessment and hydrological modeling, flooding and drought.

10. Outcomes

- a. The number of water resource information systems that have been operating;
- b. The number of B/BWS that have been improved in the management of their natural resource information systems;
- c. Number of monitoring systems for H3 observation posts that can be monitored online and real-time;
- d. The number of B/BWS who have used the water resources information system for the operation of SDA facilities and infrastructure;
- e. The number of B/BWS whose capacity has been increased in the management of the water resources information system;
- f. Pilot project of network management of the H3 monitoring posts by the private sector with a Performance Base Contract (PBC).

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality growth;
- b. Regional development to reduce inequality and equity;
- c. Improve the quality of human resources and competitiveness;
- d. Strengthening infrastructure to support economic development and basic services; and
- e. Developing the environment, increasing disasters resilience and climate change.

12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	50,000,000	- Central Government : US\$	0
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	50,000,000	Subtotal : US\$	0
TOTAL : US\$	50,000,000		

-
1. **Project Title** : **Asahan Irrigation Development in North Sumatera**
 2. **Program Title** : Multipurpose Storage for Water, Food, Flood, and Energy Program
 3. **Executing Agency** : Ministry of Public Works and Housing
 4. **Implementing Agency** : a. Directorate General of Water Resource, Ministry of Public Works and Housing
b. Sumatera II RBO
 5. **Duration** : 60 months
 6. **Location** : North Sumatera, other prospective locations
-

7. Objectives

Modernization, revitalization and integration of irrigation development to support national food security.

8. Scope of Works

- a. Detailed Engineering Design;
- b. Construction of irrigation network and irrigation infrastructure;
- c. Revitalization and development of lowland irrigation;
- d. Evaluation of lowland irrigation development and management;
- e. Hydrological restoration on lowland;
- f. Development of distribution of irrigation product;
- g. Forming/strengthening irrigation institution and asset management;
- h. Increasing the welfare of farmers/Water User Association (WUA) through participation in development, rehabilitation and O/M irrigation activities.

9. Outputs

- a. Lowland irrigation network and irrigation infrastructure
- b. Lowland irrigation area development and management plan
- c. Detailed design of development and revitalization of lowland irrigation areas
- d. Agricultural distribution support facilities
- e. Establishment and strengthening of irrigation institution
- f. Capacity building for irrigation water manager
- g. Asset management

10. Outcomes

- a. Development and revitalization of environmentally based lowland irrigation areas
- b. Increase in the food crop production
- c. Enhancement of O&M systems and asset management through soft component activities
- d. Lowland irrigation development approach based on improving the livelihoods of local farmers

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Building the environment, increasing disaster resilience and climate change

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	515,000,000	- Central Government	: US\$	35,000,000
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	515,000,000	Subtotal	: US\$	35,000,000
TOTAL : US\$ 550,000,000					

Disaster Resilience Infrastructure Program

Ministry of Public Works and Housing

-
- | | |
|------------------------|--|
| 1. Project Title | : Comprehensive Disaster Reduction and Management Improvement of Jeneberang River Basin |
| 2. Program Title | : Disaster Resilience Infrastructure Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Water Resources |
| 5. Duration | : 72 months |
| 6. Location | : Gowa Regency, Luwu Utara Regency, Takalar Regency and Makassar City, South Sulawesi Province |
-

7. Objectives

To reduce damage and economic losses due to future disaster through dam improvement on operation method and upgrading the dam facilities and monitoring, control and flood warning systems. Furthermore, this project also covered review or updating the existing flood control plan considering the change of land use and the effect on climate change.

8. Scope of Works

- a. Selectable water intake construction on Bili-Bili Dam
- b. Giant sand trap facilities construction on the Bili-Bili Dam's downstream area
- c. Sediment control construction on Gowa Regency
- d. Commencement of F/S, B/D and D/D for priority rehabilitation project
- e. Commencement of river dredging on Rongkong and Malangke River Basin
- f. Flood control building construction on Rongkong and Malangke River Basin
- g. Sediment control construction on Rongkong and Malangke River Basin
- h. Formulation of effective operational regulations for dams and improvement plans of dam management systems.
- i. Complete flood forecasting and warning system

9. Outputs

- a. Dam upgrading (improvement of spillway gate, water selectable intake, dam operation method)
- b. Sediment measures (sand pocket, check dam, sabo dam, dredging, etc)
- c. Flood control infrastructure
- d. Forecast system

10. Outcomes

- a. Increasing effective water storage
- b. Guaranteed supply of raw water
- c. Increasing of resilience against flood disaster
- d. River flow normalization and flood disaster mitigation
- e. Prolonging of life of Bili-Bili Dam
- f. Controlled sedimentation rates in the central and upstream areas

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services

c. Developing the environment, increasing disaster resilience and climate change

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 288,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 6,500,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
Subtotal : US\$ 288,000,000	Subtotal : US\$ 6,500,000
TOTAL : US\$ 294,500,000	

1. Project Title	: Flood Management and Coastal Protection in North Java
2. Program Title	: Disaster Resilience Infrastructure Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Water Resources
5. Duration	: 60 Months
6. Location	: Banten Province, West Java Province, Central Java Province, East Java Province.

7. Objectives

To develop coastal protection and flood protection infrastructure in North Java Coastal Area in order to protect seaside society from abrasion and coastal erosion, degradation, flood, sedimentation and land subsidence.

8. Scope of Works

- a. Masterplan of coastal protection and flood Protection
- b. Detailed Engineering Design
- c. Study of land subsidence, including survey, investigation and design
- d. Drainage system planning
- e. Environmental impact assessment
- f. Construction of coastal protection infrastructure

9. Outputs

- a. Flow Normalization (L) = 24.05 km
- b. Flood Control Channel (L) = 12.05 km
- c. Embankment (L) = 10 km
- d. Water Sluice = 4 set
- e. Water Pump= 1 set
- f. Flood Canal = 2 set
- g. Seawall (L) = 11.8 km
- h. Breakwater(L) = 3.35 km

10. Outcomes

- a. Securing the flooded area covering 28,000 ha
- b. Residential area landscaped area of 67,775 ha
- c. Coastal area protection along 16.4 km of coastline

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services
- c. Developing the environment, increasing disaster resilience and climate change

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 500,000,000 - Grant : US\$ 0 <hr/>	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 <hr/>
Subtotal : US\$ 500,000,000	Subtotal : US\$ 0
TOTAL : US\$ 500,000,000	

1. Project Title	: Integrated Urban Flood Management Project in JABODETABEK
2. Program Title	: Disaster Resilience Infrastructure Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Water Resources
5. Duration	: 72 months
6. Location	: DKI Jakarta, West Java, Banten Province

7. Objectives

To mitigate the risk of flooding and reduce the impact of flooding in the JABODETABEK region and increase resilience to flood disasters at the government level to the community, so that it can contribute to economic stability and national development.

8. Scope of Works

- a. Physical Structure & Flood Control:
 - i. Infrastructure for flood control & runoff (retention pool, groundwater storage & ground water channel)
 - ii. Rehabilitation/ Upgrade main flood control facility for DKI Jakarta are
 - iii. Rearranging and upgrading of main drainage area (outlet to Kali Bekasi) and drainage along the toll road junction (with jacking pipe channel or building the collector drain)
 - iv. Kali Blencong Normalization± 3.5 Km from BKT to Kali Pisang Batu
 - v. Integrated Operation Center - IOC
 - vi. Early Flood Warning Systems
- b. Consultation:
 - i. Detail Design
 - ii. Supervisions
 - iii. SOP Review for infrastructures
 - iv. Flood Hazard Map, Effective Communication System, Time series Action
 - v. Workshop/Knowledge Sharing

9. Outputs

- a. Structural Mitigation
 - i. Runoff Controlling Facilitation with a total capacity of 3 million m³ (utilization of Situ, Lake, Embung, Reservoir- SDEW as a control pool. Underground storage around 500,000 m³ in the center of DKI Jakarta, Bekasi or Tangerang).
 - ii. Rehabilitation / Improvement of the main flood control facilities for the DKI Jakarta area
 - iii. Structuring and Improvement of the Area's Main Drainage (drainage outlet leading to Bekasi River) and drainage along the toll road crossing (channel with Jacking Pipe or making a collector drain)
 - iv. Normalization of Blencong River± 3.5 Km from KBT until the meeting of Kali Pisang Batu.
 - v. Integrated Control Center (Integrated Operation Center - IOC). for pumps and sluice gates by PUPR / DKI Jakarta Provincial Government / City Government (preparation of control rules for all facilities and construction of Control Centers for Regional

Governments (DKI Provincial Government, West Java Provincial Government, Banten Provincial Government) and Central Government (Directorate General of Water Resources , Ministry of Public Works and Housing; BBWS Ciliwung Cisadane)

- vi. Development of a flood early warning system
- vii. Data center and integrated flood disaster data & information center
- b. Non-Structural Mitigation:
 - i. Detail Design
 - ii. Supervisions
 - iii. SOP Review for infrastructure
 - iv. Flood Hazard Map, Effective Communication System, Time series Action
 - v. Workshop/Knowledge Sharing

10. Outcomes

- a. Reducing JABODETABEK flood risk
- b. Increased resilience and preparedness for floods

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services
- c. Developing the environment, enhancing disaster resilience and climate change

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 800,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 240,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 800,000,000	<hr/> Subtotal : US\$ 240,000,000
TOTAL : US\$ 1,040,000,000	

1. Project Title	: Urgent Disaster Reduction of Mt. Semeru, Mt. Kelud, Mt. Agung, and Other Erupted Volcanoes in Indonesia
2. Program Title	: Disaster Resilience Infrastructure Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Water Resources
5. Duration	: 60 months
6. Location	: Central Java, D.I. Yogyakarta, East Java, Bali

7. Objectives

Improve river systems to reduce the destructive force of water and the effects of cold lava floods and sediments.

8. Scope of Works

- a. Construction and rehabilitation of sabo dam
- b. Check dam construction
- c. River normalization
- d. Development and improvement of river embankments
- e. Making of tunnels and other supporting buildings

9. Outputs

- a. Construction of 44 units sabo dam
- b. Rehabilitation of 36 units sabo dam
- c. Construction of 8 units check dam
- d. Normalized river along 8.5 km
- e. Construction of 6 river embankments along 16.5 km
- f. Improvement river embankment along 12.5 km
- g. Tunnel, inspection road, and supporting buildings
- h. Detailed design of lava flooding controlling infrastructures due to the volcanoes eruption

10. Outcomes

- a. Sediments lava control
- b. Improving the function of the sabo building to reduce the destructive force of water due to cold lava floods
- c. Prevention of the impact of eruptions
- d. Reducing the impact of flooding due to the construction of dykes

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services
- c. Developing the environment, increasing disaster resilience and climate change

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	174,000,000	- Central Government	: US\$	0
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	174,000,000	Subtotal	: US\$	0
TOTAL		: US\$ 174,000,000			

Toll Road Development Program

Ministry of Public Works and Housing

1. Project Title	: Toll Road Development in Sumatra Islands: Jambi-Rengat (Sp. Ness-Sentjalang)
2. Program Title	: Toll Road Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Highways
5. Duration	: 27 months
6. Location	: Jambi and Riau Province

7. Objectives

To increase connectivity and to boost economic development in Sumatera Island through the development of Jambi – Rengat (Sp. Ness – Sentjalang) toll road section, as part of Trans-Sumatera toll road.

8. Scope of Works

- a. Civil works
- b. Consulting services

9. Outputs

Availability of toll road in Sumatra Island on the following sections Jambi – Rengat Rengat (Sp. Ness – Sentjalang) with total length approximately 155,2 km

10. Outcomes

- a. To contribute to RPJMN target of reduction of travel time from 2.3 hours/100 km to 1.9 hours/100 km;
- b. Improved connectivity and national logistics routes in Sumatera Island spesifically for Jambi and Riau Province;
- c. Improved regional accessibility in Jambi and Riau Province.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Regional development for reducing inequality
- b. Strengthening infrastructure for supporting economic development and basic services

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 1,624,371,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 286,654,000
<hr/> Subtotal : US\$ 1,624,371,000	<hr/> Subtotal : US\$ 286,654,000
TOTAL : US\$ 1,911,025,000	

1. Project Title	: Development of New Tunnels Alignment in Payakumbuh-Pangkalan Toll Road
2. Program Title	: Toll Road Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Highways
5. Duration	: 48 months
6. Location	: West Sumatera and Riau Province

7. Objectives

- Improve connectivity and national road service between Padang city and Pekanbaru.
- Reduce travel time between Padang and Pekanbaru.
- Reduce the logistics cost of ground transportation.
- Improve the economy and trade between Padang and Pekanbaru.
- Provide alternative travel routes between Padang and Pekanbaru.

8. Scope of Works

- Construction work of Padang – Pekanbaru toll road Segment Payakumbuh - Pangkalan Section II.
- Consultancy work includes supervision activities for Costruction of toll road.

9. Outputs

Availability of tunnels on the Padang – Pekanbaru toll road Segment Payakumbuh - Pangkalan Section II with a length of 13.2 Km.

10. Outcomes

- Improved accessibility & mobility of residents in Padang, Pekanbaru and surrounding areas.
- Facilitate the distribution of goods and services between Padang and Pekanbaru City.
- Reduced average travel time per corridor for the main corridor.

11. Development Agenda of the National Development in RPJMN 2020-2024

- Regional development for reducing inequality.
- Strengthening infrastructure for supporting economic development and basic services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 427,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 427,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 427,000,000	

- 1. **Project Title** : **The Development of Kuala Tanjung-Tebing Tinggi-Parapat Toll Road**
- 2. **Program Title** : Toll Road Development Program
- 3. **Executing Agency** : Ministry of Public Works and Housing
- 4. **Implementing Agency** : Directorate General of Highways
- 5. **Duration** : 36 months
- 6. **Location** : North Sumatera Province

7. Objectives

To encourage economic growth and service in the Kuala Tanjung- Tebing Tinggi-Parapat corridor, North Sumatera Province.

8. Scope of Works

Construction work of Kuala Tanjung-Tebing Tinggi-Parapat Toll Road, Parapat - Pematang Siantar and part of Pematang Siantar – Serbelawan section.

9. Outputs

Availability of Kuala Tanjung - Tebing Tinggi - Parapat toll road, section:

- a. Parapat - Pematang Siantar with a length of 39 Km.
- b. Part of Pematang Siantar – Serbelawan with a length of 11 Km.

10. Outcomes

- a. Improve accessibility to National Tourism Strategic Area (NTSA) Toba.
- b. Facilitate the distribution of goods and services to NTSA Toba.
- c. Improve economic growth in NTSA Toba and the area around Kuala Tanjung-Tebing Tinggi-Parapat.
- d. Provide efficiency in road transportation infrastructure in North Sumatera Province.

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure for supporting economic development and basic services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 536,030,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 536,030,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 536,030,000	

1. Project Title	: Toll Road Development of Serang-Panimbang Section III (Cileles-Panimbang Section) Phase II
2. Program Title	: Toll Road Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Highways
5. Duration	: 13 months
6. Location	: Banten Province

7. Objectives

To improve the economic growth and connectivity of Tanjung Lesung SEZ and Banten Province in general through the development of Cileles – Panimbang toll road section, as part of Serang – Panimbang toll road.

8. Scope of Works

Construction of road and bridge of Toll Road Development of Serang - Panimbang Section III (Cileles - Panimbang Section) Phase II, consist of:

- a. Main road construction
- b. Hydrology work (river handling)
- c. Intersection handling
- d. Supervisory consultant
- e. PMI consultant
- f. Management consultant

9. Outputs

Serang-Panimbang toll road, Cileles - Panimbang section with total length approximately 15,54 km.

10. Outcomes

- a. Improve the accessibility to Tanjung Lesung SEZ
- b. Expedite the distribution of goods and services to Tanjung Lesung SEZ
- c. Improve the economic growth in Tanjung Lesung SEZ
- d. Provide efficient road network in Banten Province

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Regional development for reducing inequality
- b. Strengthening infrastructure for supporting economic development and basic services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 272,941,403 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
Subtotal : US\$ 272,941,403	Subtotal : US\$ 0
TOTAL : US\$ 272,941,403	

**Road and Bridge
Development/Improvement
Program**

Ministry of Public Works and Housing

- 1. **Project Title** : **Development of Trans South – South Java Road Project Phase II**
- 2. **Program Title** : Road and Bridge Development/Improvement Program
- 3. **Executing Agency** : Ministry of Public Works and Housing
- 4. **Implementing Agency** : Directorate General of Highways
- 5. **Duration** : 36 months
- 6. **Location** : East Java Province

7. Objectives

- a. Improve accessibility and connectivity in the southern region of Java;
- b. Support economic growth in the southern region of Java;
- c. Support the equitable development in the southern region of Java.

8. Scope of Works

Construction of Trans South - South Java road on the following sections.

- a. Panggul - Craken - Munjungan – Prigi with a length of 44.02 km (Trenggalek Regency).
- b. Brumbun - P. Sine – Blitar with a length of 30.45 km (Tulungagung Regency).
- c. P. Serang - Summersih - Ringinrejo; Ringinrejo - Sp. Jolosutro - Bts. Malang Regency with a length of 31.83 km (Blitar Regency).
- d. Sendangbiru - Tamban - Bts. Lumajang with a length of 43.31 km (Malang Regency).
- e. Telepuk - Bago with a length of 26.38 km (Lumajang Regency).
- f. Sidodadi - Senenrejo - Bts. Kab. Banyuwangi with a length of 33.54 km.

9. Outputs

- a. The construction of Trans South - South Java road with a length of 209.53 km.
- b. Improve quality and capacity of roads and bridges to reduce travel times.

10. Outcomes

- a. Increase average growth of traffic to a minimum of 4 million by 2024.
- b. By 2024, 80% of the Trans South - South Java road corridor has been completed.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Regional development for reducing inequality;
- b. Strengthening infrastructure for supporting economic development and basic services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 300,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 300,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 300,000,000	

- 1. **Project Title** : Long Span Bridge Development for Selected Area
- 2. **Program Title** : Road and Bridge Development/ Improvement Program
- 3. **Executing Agency** : Ministry of Public Works and Housing
- 4. **Implementing Agency** : Directorate General of Highways
- 5. **Duration** : 15 months
- 6. **Location** : Riau Archipelago

7. Objectives

To build government support portion of Batam-Bintan Bridge, in order to increase connectivity and reduce logistic cost between Bintan Island and Batam Island.

8. Scope of Works

Government support of the Batam-Bintan Bridge which covers the construction works and consulting services for Batam-Tanjung Sauh Bridge and access road.

9. Outputs

Long span bridges for selected area in Riau Archipelago Island with total length approximately 6,764 km.

10. Outcomes

To support economic development of Riau Island Province through improving accessibility and connectivity between Batam and Bintan Islands.

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic service.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 300,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 300,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 300,000,000	

1. Project Title	: Kalimantan Border Road Development Project
2. Program Title	: Road and Bridge Development/ Improvement Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Highways
5. Duration	: 102 months
6. Location	: East Kalimantan and North Kalimantan Province

7. Objectives

To improve accessibility and connectivity of the border areas of North Kalimantan and East Kalimantan through the development of border roads.

8. Scope of Works

- a. Kalimantan border road construction work which consists of:
 - i. Phase I in East Kalimantan (Long Bagun – Long Pahangai and Long Pahangai – Bts. Kaltara
 - ii. Phase II in North Kalimantan (Malinau – Semamu – Long Midang)
- b. Consultant activities consisting of 3 (three) packages, including 1 (one) Project package Management Consultant (PMC) and 2 (two) Project Supervision Consultant packages (PSC).

9. Outputs

Availability of 306,03 km of roads and bridges in Kalimantan border.

10. Outcomes

- a. Increased accessibility and connectivity in the border regions of North Kalimantan and East Kalimantan in order to support economic growth and equitable development in the border region of Kalimantan.
- b. Enhancing accessibility and connectivity in Kalimantan border areas.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Developing regions to reduce inequality and to ensure equity;
- b. Strengthening infrastructure to support economic and basic services development.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 605,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 605,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 605,000,000	

Slum Alleviation Program

Ministry of Public Works and Housing

-
1. **Project Title** : **Livable Settlement Investment Project (LSIP)**
 2. **Program Title** : Slum Alleviation Program
 3. **Executing Agency** : Ministry of Public Works and Housing
 4. **Implementing Agency** :
 - a. Directorate General of Human Settlement, Ministry of Public Works and Housing
 - b. Directorate General of Housing Provision, Ministry of Public Works and Housing
 - c. Directorate General of Regional Development, Ministry of Home Affairs
 - d. Directorate General of Land Provision and Development, Ministry of Agrarian Affairs and Spatial Planning/National Land Agency
 5. **Duration** : 60 months
 6. **Location** : Selected Cities in Metropolitan Area
-

7. Objectives

To improve quality of life for households living in existing slum through upgrading and providing housing including basic service infrastructure.

8. Scope of Works

- a. Planning and design formulation
- b. Land regularization
- c. Providing low-rise vertical housing
- d. Providing basic service infrastructure
- e. Capacity building
- f. Providing instrument of support system

9. Outputs

- a. Slum alleviation strategy in cities
- b. Improved housing and settlement
- c. Regulation and controlling system

10. Outcomes

Increasing number of households living in adequate housing and settlement

11. Development Agenda of the National Development in RPJMN 2020-2024

Infrastructure development to support economic growth and basic services

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	150,000,000	- Central Government	: US\$	2,000,000
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	150,000,000	Subtotal	: US\$	2,000,000
TOTAL : US\$ 152,000,000					

-
1. **Project Title** : **Regency Settlement Infrastructure Development (RSID)**
 2. **Program Title** : Slum Alleviation Program
 3. **Executing Agency** : Ministry of Public Works and Housing
 4. **Implementing Agency** :
 - a. Directorate General of Human Settlements, Ministry of Public Works and Public Housing
 - b. Directorate General of Housing Provision, Ministry of Public Works and Housing
 - c. Directorate General of Regional Development, Ministry of Home Affairs
 - d. Directorate General of Spatial Planning, Ministry of Agrarian Affairs and Spatial Planning/National Land Agency
 5. **Duration** : 60 months
 6. **Location** : Bangka Central District, Bangka Belitung Province; Bekasi District, and Bandung District, West Java Province; Semarang District, and Sukoharjo District, Central Java Province; Gresik District, East Java Province
-

7. Objectives

To improve quality of life for households living in peri-urban area through better urban planning along with housing and settlement delivery system.

8. Scope of Works

- a. Capacity building for central and local governments
 - i. Integrated development, spatial and detailed planning, implementing and controlling of peri-urban area development that complies with spatial plan.
 - ii. Policy development and policy coordination
 - iii. Managing capital investment in developing peri-urban area
- b. Assisting local government to formulate integrated masterplan of peri-urban area
- c. Providing basic service infrastructure along with housing provision strategy

9. Outputs

- a. Improved capacity of local governments and communities to incorporated integrated development of regency settlements infrastructure
- b. Improved spatial and building regulation compliances
- c. Improved quality and coverage of housing including basic service infrastructure

10. Outcomes

Improving number of household living in adequate housing and settlement

11. Development Agenda of the National Development in RPJMN 2020-2024

Infrastructure development to support economic growth and basic services

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	90,000,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	90,000,000	Subtotal	: US\$	0
TOTAL	: US\$	90,000,000			

Sanitation and Waste Development Program

Ministry of Public Works and Housing

- 1. **Project Title** : **Solid Waste Management for Sustainable Urban Development**
- 2. **Program Title** : Sanitation and Waste Development Program
- 3. **Executing Agency** : Ministry of Public Works and Housing
- 4. **Implementing Agency** : a. Directorate General of Human Settlements, Ministry of Public Works and Housing
b. Directorate General of Regional Development, Ministry of Home Affairs
- 5. **Duration** : 48 months
- 6. **Location** : Banda Aceh City, Aceh Province; Bogor District, Cirebon City, and Bekasi City, West Java Province; Banyuwangi Districts, East Java Province

7. Objectives

The Solid Waste Management for Sustainable Urban Development activity aims to support the achievement of the 2020-2024 RPJMN target and the 2030 SDGs target by increasing access to solid waste services, using appropriate technology that prioritizes sustainable principles.

8. Scope of Works

- a. Construction of waste processing facilities using appropriate technology and supporting buildings.
- b. Capacity building for managing institutions and operational assistance.

9. Outputs

- a. Implementation of construction and operation of waste processing facilities using appropriate technology.
- b. The achievement of capacity building for waste management institutions.

10. Outcomes

Continuous improvement of solid waste services by using appropriate technology.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthen infrastructure to support economic development and basic services.
- b. Build the environment, increase disaster resilience and climate change.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 150,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 150,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 150,000,000	

-
1. **Project Title** : **Wastewater Development System for City Wide Inclusive Sanitation**
 2. **Program Title** : Sanitation and Waste Development Program
 3. **Executing Agency** : Ministry of Public Works and Housing
 4. **Implementing Agency** : a. Directorate General of Human Settlements, Ministry of Public Works and Housing
b. Regional Government in Central Java, West Kalimantan, and Bali Province
 5. **Duration** : 72 months
 6. **Location** : Semarang City, Central Java Province; Pontianak City, West Kalimantan Province; Denpasar City and Badung District, Bali Province
-

7. Objectives

The Wastewater Development System for City Wide Inclusive Sanitation aims to support the achievement of the 2020-2024 RPJMN target and the 2030 SDGs target by increasing access to safely managed sanitation, through the City-Wide Inclusive Sanitation (CWIS) approach.

8. Scope of Works

- a. Increase the capacity of the Suwung wastewater treatment plant (WWTP) from 51,000 m³/day to 81,000 m³/day in Bali Province.
- b. Upgrade WWTP technology to meet quality standards in accordance with the Minister of Environment and Forestry Regulation Number 68 of 2016 in Bali Province.
- c. Expansion of the wastewater network service area in Bali Province.
- d. Construction of WWTP and urban scale wastewater piping networks in Semarang City and Pontianak City.

9. Outputs

- a. Improvement of sanitation services in Pontianak City by 36,000 households, in Semarang City by 55,500 households, and Denpasar City and Badung Regency by 235,400 households.
- b. Implementation of construction activities and operational of WWTP and the sewerage system.
- c. Achievement of capacity building for sanitation management institutions.

10. Outcomes

- a. Improvement of environmental quality by reducing pollution caused by domestic wastewater
- b. Improvement the quality of public health
- c. Increasing safely managed sanitation access by 24% in Pontianak City, 25% in Semarang City and 12% in Denpasar City & Badung Regency.

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basis services

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 598,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
Subtotal : US\$ 598,000,000	Subtotal : US\$ 0
TOTAL : US\$ 598,000,000	

Ministry of Home Affairs

-
1. **Project Title** : **Local Service Delivery Improvement Project (LSDP)**
 2. **Program Title** : Sanitation and Waste Development Program
 3. **Executing Agency** : Ministry of Home Affairs
 4. **Implementing Agency** :
 - a. Directorate General of Regional Administration, Ministry of Home Affairs
 - b. Directorate General of Regional Financial Development, Ministry of Home Affairs
 - c. Directorate General of Cipta Karya, Ministry of Public Works and Housing
 - d. Directorate General of Garbage, Waste and B3 Management, Ministry of Environment and Forestry
 - e. Directorate General of Disease Prevention and Control, Ministry of Health
 - f. Directorate General of Fiscal Balance, Ministry of Finance
 - g. Local Development Planning Agency
 - h. Public Works City Office
 - i. Health City Office
 - j. Environment City Office
 - k. Health City Office
 5. **Duration** : 60 months
 6. **Location** : Targeting 40 cities across the areas of Sumatera, Java, West Nusa Tenggara, Borneo, Sulawesi, Maluku, and Papua
-

7. Objectives

- a. The main objective of this project is to increase local government capacity to support public service delivery through better preparation, implementation and governance, independently by local government.
- b. The short-term objective of this project is to strengthen the city's service delivery system with a focus on household solid waste management.

8. Scope of Works

- a. Component 1: Development of policy and institutional reform at the national and local levels this component will provide national and local-level policy support for local governments to operationalize a new model of integrated urban investment and service delivery with an initial focus on waste management. Furthermore, this component will focus on increasing the capacity of participating cities in governing waste management, including policy and planning, institution, demand creation, financing, developing, operating, and monitoring urban service delivery.
- b. Component 2: Increasing the capacity of local governments in providing public services in the waste sector. This component provides funding for both physical (infrastructure, etc.) and non-physical (planning, capacity building, community outreach, etc.) interventions. The physical intervention will be implemented directly by selected cities with "beauty contest" mechanism. The types of investment that can be funded by this component include activities to strengthen solid waste management and sanitation in the upstream sector.

- c. Component 3: Project management support. This component will finance overall project management during implementation (including project management support), monitoring of service executors on the ground in project location cities, construction supervisory consultants, supervision and evaluation, special technical support for local governments that receive investments component 1 and 2, as well as event organizers seminars/events/knowledge exchanges.

9. Outputs

- a. National policies and guidelines on institutional arrangements for municipal waste management and waste collection and management of waste fees were developed
- b. National SPM for municipal solid waste management developed
- c. A national policy to build local government capacity in the development and implementing of a waste management master plan is developed
- d. Number of cities receiving capacity building activities to improve city service delivery
- e. Number of cities receiving technical assistance provided to LGs in governing waste management, including policy and planning, institution, demand creation, developing, implementing, and managing city service delivery
- f. Number of cities that received technical assistance provided to LGs in developing proposals to access grant support under component 2 of this project
- g. Number of local government regulation on solid waste management established and enforced (including separation of regulator, operator, oversight, and law enforcement).
- h. Master plans established for LGs participating in the project
- i. Number of request-driven proposals from LGs submitted
- j. Budget allocation for O&M provided for existing waste management facilities
- k. Number and proportion of waste collection and transportation and waste facilities and equipment (eg TPS/TPS3R/TPST, trash bins, transport vehicles, etc.) that are fully performed
- l. Number of cities with better cost recovery rates for waste management applied to LGs
- m. Number of cities with support provided for household composting
- n. Beneficiaries are trained in behavior change in waste management (awareness/waste separation and recycling campaigns) and receive facilities for waste segregation (bins, etc.)
- o. Number of new BLUDs formed for better waste management
- p. NSPM determination for waste management
- q. Number of cities with waste management fees set by local regulations
- r. Number of new local bans on plastic supported by law enforcement mechanisms in LGs participating in the project
- s. Number of partnership between participating cities and offtaker established

10. Outcomes

- a. Strengthen local government institutions and service quality through policy, governance, investment and capacity building
- b. Improving the governance and waste management ecosystem in participating cities to circular economy
- c. Environmental improvements primarily for public health and better urban living conditions
- d. Enhancing environmental sustainability in locations where Local Government participates.
- e. All household received solid waste collection services
- f. Minimizing waste residu to 10% from total solid waste volume
- g. All solid waste infrastructure all well and fully performed

- h. Proportion of household that already practicing waste separation (minimal to 2 types of waste-organic and non-organic)

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Developing regions to reduce inequality and to ensure equity
- b. Mental revolution and cultural development
- c. Strengthening infrastructure to support economic development and basic services
- d. Build the environment, increase disaster resilience and climate change

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 350,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
Subtotal : US\$ 350,000,000	Subtotal : US\$ 0
TOTAL : US\$ 350,000,000	

Urban Mass Transportation Development Program

Ministry of Transportation

-
1. **Project Title** : **Implementation Project of Public Transportation System**
 2. **Program Title** : Urban Mass Transportation Development Program
 3. **Executing Agency** : Ministry of Transportation
 4. **Implementing Agency** : a. Directorate General of Land Transportation
b. Directorate General of Railways
 5. **Duration** : 60 months
 6. **Location** : Metropolitan Bandung, Medan, Surabaya, Semarang, Makassar, and other metropolitan cities
-

7. Objectives

- a. To establish the implementation of public transportation system;
- b. To improve urban mobility, accessibility, support economic growth and reduce income inequality in the metropolitan priority cities in RPJMN 2020-2024;
- c. To enhance institutional capacity in urban transportation and mass transit development system

8. Scope of Works

- a. Providing central government support in the implementation of public transportation system for 5 (five) metropolitan cities and other metropolitan cities prioritized in RPJMN 2020-2024 and Ministry of Transportation Strategic Plan (RENSTRA) 2020-2024 including:
 - i. Development of public transport infrastructure and/or facilities;
 - ii. Development of local government institution to integrate metropolitan city transportation system that cover several different areas or across regions local government and increasing human resources capacity; and
 - iii. Other supports in accordance with the laws and regulations.
- b. Institutional development and human resources capacity building in central government for urban transportation sector
- c. Technical studies, regulations, and policies in the implementation of urban transportation system and public transportation, including mass transit.

9. Outputs

- a. Establishment urban mass public transport system in metropolitan cities prioritized in RPJMN 2020-2024 and Ministry of Transportation Strategic Plan (RENSTRA) 2020-2024
- b. Establishment of institutional structure to implement the urban mass public transport system program at central and local government level;
- c. Development rules, standards, and guidelines related to the implementation of urban mass public transport system.

10. Outcomes

- a. Increasing amount of mass transit user in selected metropolitan cities
- b. Improvement of public mobility and accessibility in selected metropolitan cities;
- c. Increasing of public transport user satisfaction level with public transport services.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Developing regions to reduce inequality and to ensure equity;
- b. Strengthening infrastructure to support economic and basic services development;
- c. Strengthening the environment and improving resilience against natural disasters and climate change.

12. Project Cost

<ul style="list-style-type: none">• Foreign Funding		<ul style="list-style-type: none">• Counterpart Funding	
- Loan	: US\$ 468,938,000	- Central Government	: US\$ 50,000,000
- Grant	: US\$ 2,000,000	- Regional Government	: US\$ 50,000,000
		- State-Owned Enterprise	: US\$ 100,000,000
		- Others	: US\$ 0
Subtotal	: US\$ 470,938,000	Subtotal	: US\$ 200,000,000
TOTAL : US\$ 670,938,000			

-
1. **Project Title** : Construction of Jakarta Metropolitan Mass Rapid Transit East-West Line Project Phase I Stage I
 2. **Program Title** : Urban Mass Transportation Development Program
 3. **Executing Agency** : Ministry of Transportation
 4. **Implementing Agency** : Directorate General of Railways
 5. **Duration** : 60 months
 6. **Location** : DKI Jakarta and surrounding areas
-

7. Objectives

- a. To implement the development, improvement, and well-operation of Jabodetabek transportation;
- b. To integrate transportation service that is smooth, effective, efficient, safe, secure, comfortable, and affordable for the public without being limited by administrative areas.

8. Scope of Works

- a. Construction of 30.2 km MRT double track (elevated and underground track including Depot Access);
- b. Construction of 24 MRT stations (16 elevated and 8 underground stations including Depot Access stations);
- c. Construction of full function depot;
- d. Construction of operation facilities along track 30.2 km MRT double track including Depot Access.

9. Outputs

- a. Availability of 30.2 km MRT double track (elevated and underground track including Depot Access);
- b. Availability of 24 MRT stations (16 elevated and 8 underground stations including Depot Access stations);
- c. Availability of full function depot;
- d. Availability of operation facilities along 30.2 km MRT double track including Depot Access.

10. Outcomes

- a. Improvement of mobility and accessibility level of society to new networks and the growth of connectivity nodes;
- b. Decreasing pollution along the mass transit corridors;
- c. Improving level of traffic safety and security along the mass transit corridors;
- d. Increased the level of community satisfaction and experience with public transport services

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic and basic service development;
- b. Strengthening the environment and improving resilience against natural disasters and climate change.

12. Project Cost

<ul style="list-style-type: none">• Foreign Funding<ul style="list-style-type: none">- Loan : US\$ 3,129,000,000- Grant : US\$ 0	<ul style="list-style-type: none">• Counterpart Funding<ul style="list-style-type: none">- Central Government : US\$ 516,400,000- Regional Government : US\$ 0- State-Owned Enterprise : US\$ 0- Others : US\$ 0
<hr/> Subtotal : US\$ 3,129,000,000	<hr/> Subtotal : US\$ 516,400,000
TOTAL : US\$ 3,645,400,000	

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- | | |
|-------------------------------|--|
| 1. Project Title | : Engineering Services of Jakarta Metropolitan Mass Rapid Transit East - West Line Project Phase I Stage II |
| 2. Program Title | : Urban Mass Transportation Development Program |
| 3. Executing Agency | : Ministry of Transportation |
| 4. Implementing Agency | : Directorate General of Railways |
| 5. Duration | : 60 months |
| 6. Location | : DKI Jakarta and surrounding areas |
-

7. Objectives

- a. To implement the development, improvement, and well-operation of Jabodetabek transportation;
- b. To integrate transportation service that is smooth, effective, efficient, safe, secure, comfortable, and affordable for the public without being limited by administrative areas.

8. Scope of Works

- a. Engineering services of MRT elevated track and the underground track with a total length of 10.8 km;
- b. Engineering services of 6 (six) MRT elevated stations;
- c. Engineering services of Operation Facilities along 10,8 km MRT track.

9. Outputs

Feasibility study/detail engineering design for the MRT elevated track track and the underground track with a total length of 10,8 km, 6 (six) MRT elevated stations, and operation facilities along 10,8 km MRT track.

10. Outcomes

- a. Improvement of mobility and accessibility level of society to new networks and the growth of connectivity nodes;
- b. Decreasing pollution along the mass transits corridors;
- c. Improvement level of traffic safety and security along mass transits corridors;
- d. Increased the level of community satisfaction and experience with public transport services;
- e. Established the rules, standards, and guidelines related to the implementation of mass public transportation

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic and basic services development;
- b. Strengthening the environment and improving resilience against natural disasters and climate change.

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	106,115,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	106,115,000	Subtotal	: US\$	0
TOTAL		: US\$ 106,115,000			

1. Project Title	: Construction of Jakarta Mass Rapid Transit Project North-South Phase 2
2. Program Title	: Urban Mass Transportation Development Program
3. Executing Agency	: a. Ministry of Transportation Republic Indonesia b. Provincial Government of DKI Jakarta
4. Implementing Agency	: a. Directorate General of Railways, Ministry of Transportation b. Provincial Government of DKI Jakarta c. PT. MRT Jakarta (Perseroda)
5. Duration	: 111 months
6. Location	: DKI Jakarta Province

7. Objectives

- a. To increase the transport services and capacity in Jakarta metropolitan area in order to complete the backbone of urban transportation system for North-South corridor (Lebak Bulus – Ancol Barat).
- b. To stimulate economic activities as well as investment in the area, during the construction of Jakarta Mass Rapid Transit.

8. Scope of Works

- a. Construction of civil and railway system of MRT Jakarta phase 2A (Bundaran HI – Kota);
- b. Rolling stock procurement of MRT Jakarta phase 2A (Bundaran HI – Kota);
- c. Basic engineering design of MRT Jakarta phase 2B (Kota – Ancol Barat);
- d. Construction of civil dan railway system of MRT Jakarta phase 2B (Bundaran HI – Kota);
- e. Rolling stock procurement of MRT Jakarta phase 2B (Bundaran HI – Kota);
- f. Construction supervision of MRT Jakarta phase 2A (Bundaran HI – Kota);
- g. Construction supervision of MRT Jakarta phase 2B (Kota – Ancol Barat).

9. Outputs

- a. The availability of civil, railway systems, and rolling stock of MRT phase 2 north-south corridor (Bundaran HI-Kota-Ancol Barat) including depot and workshop;
- b. The availability of basic engineering design study for MRT phase 2B (Kota-Ancol Barat).

10. Outcomes

- a. The increase of user access to public transportation in urban area;
- b. The increase of public transportation user market segment in the urban area;
- c. The reduction of the personal vehicles uses in the big cities.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic service;
- b. Developing the environment, enhancing disaster resilience and climate change.

12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	1,125,579,000	- Central Government : US\$	189,009,000
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	1,125,579,000	Subtotal : US\$	189,009,000
TOTAL : US\$ 1,314,588,000			

-
1. **Project Title** : **Surabaya Regional Railway Line (Phase I)**
 2. **Program Title** : Urban Mass Transportation Development Program
 3. **Executing Agency** : Ministry of Transportation
 4. **Implementing Agency** : a. Directorate General of Railways, Ministry of Transportation
b. Provincial Government of East Java Government
 5. **Duration** : 60 Months
 6. **Location** : Surabaya Metropolitan Region (GKS: Gresik, Bangkalan, Mojokerto, Surabaya, Sidoarjo, Lamongan)
-

7. Objectives

The Surabaya commuter railway system project must eventually be envisaged as the backbone of a public transport network in the region. Together with the planned light rail and BRT systems, the conventional buses and other feeder systems, it will be a substantial contributor to reduce per-trip greenhouse gas emissions and air pollution caused by the road traffic.

8. Scope of Works

- a. Construction of civil works infrastructure, relocation, road works, road and railway bridges, railway viaducts, road underpasses, station buildings, etc.;
- b. Double-tracking and electrification of the railway line between Surabaya Pasar Turi, Surabaya Gubeng, Wonokromo and Sidoarjo;
- c. Construction of new commuter railway stations at Surabaya Pasar Turi, Surabaya Kota and Sidoarjo;
- d. Station remodeling at Surabaya Gubeng, Waru and Wonokromo, including basic functions of transit-oriented development;
- e. Installation, testing and commissioning of traction power supply, signalling/train control and telecommunications equipment as well as related IT, ticketing facilities at commuter stations, and of an electric train maintenance facility in Sidoarjo;
- f. Remodeling of the Sidotopo maintenance workshop;
- g. Study of land acquisition and resettlement, environmental and social impact mitigation.
- h. Development and introduction of a basic asset management system.
- i. Consulting services for design, procurement, construction supervision, safety certification and operational readiness, environmental and social management and monitoring, infrastructure maintenance training.

9. Outputs

- a. Service Corridor: Surabaya Pasar Turi - Surabaya Gubeng - Wonokromo – Sidoarjo;
- b. Stations: Surabaya Pasar Turi, Surabaya Kota, Surabaya Gubeng, Wonokromo, Waru, Gendangan, Sidoarjo;
- c. Length of the line: 27 km;
- d. Key characteristics: double track, electrified, centrally-controlled fixed-block three-aspect signaling system, automatic train protection, modern communication facilities and communication- based SCADA, level crossings will be eliminated or secured through technology;
- e. Maximum speed: 120 km/h;

- f. Services: four trains per hour and direction, with modern, comfortable and safe four-car, six-car and eight-car electric trainsets.

10. Outcomes

- a. Modal shift in urban and suburban passenger trips from road to rail, mainly from two-wheelers:
 - i. Annual ridership in 2041: 26.4 million @ 30% Railway Modal Split
 - ii. Annual ridership in 2050: 55.8 million @ 40% Railway Modal Split
- b. Reduction of the total and per-trip greenhouse gas emissions and air pollution:
 - i. Year 2041: minus 33,000 t CO2 per annum
 - ii. Year 2050: minus 66,000 t CO2 per annum
- c. Technology trigger (electrification, automatic train protection, BIM, asset management)
- d. Improvement of the livelihood of people in the railway corridor and access to public transport for lower-income people

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic service;
- b. Developing the environment, enhancing disaster resilience and climate change.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 250,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 250,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 250,000,000	

**Transportation Safety
and Security
Improvement Program**

Ministry of Transportation

-
1. **Project Title** : Procurement of Third-Class Navigation Vessel
 2. **Program Title** : Transportation Safety and Security Improvement Program
 3. **Executing Agency** : Ministry of Transportation
 4. **Implementing Agency** : Directorate General of Sea Transportation
 5. **Duration** : 36 months
 6. **Location** : DKI Jakarta Province
-

7. Objectives

To fulfill the needs of navigation vessels in order to maintenance Aids to Navigation in Indonesia maritime territory to ensure safety shipping lanes.

8. Scope of Works

- a. Preparation of designs and technical specifications;
- b. Project auction;
- c. Vessels' building and construction activities;
- d. Vessels' handover and users.

9. Outputs

- a. 23 third class navigation vessels (new building).

10. Outcomes

- a. To support maritime development action plan in order to control and manage maritime resources for national welfare;
- b. To support the improvement of connectivity facilities and infrastructure, and to enhance marine resource institutional within the scope of supervision;
- c. To support the acceleration of marine economic development;
- d. To support the implementation of sea highway in supporting the logistic system;
- e. To support the development of implementation coordination system, monitoring and evaluation of maritime development.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality growth;
- b. Strengthening infrastructure to support economic development and basic service;
- c. Strengthening the stability of political, legal, defence, security and transforming in public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding 		<ul style="list-style-type: none"> • Counterpart Funding 	
- Loan	: US\$ 130,818,000	- Central Government	: US\$ 333,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Subtotal	: US\$ 130,818,000	Subtotal	: US\$ 333,000
TOTAL : US\$ 131,151,000			

1. Project Title	: Construction/Procurement of Class 1 Patrol Vessel
2. Program Title	: Transportation Safety and Security Improvement Program
3. Executing Agency	: Ministry of Transportation
4. Implementing Agency	: Directorate General of Sea Transportation
5. Duration	: 26 months
6. Location	: DKI Jakarta Province

7. Objectives

To increase the capability of Sea and Coast Guard facility around Indonesian Territory to oversee, patrol, and further strive the goal of minimalizing environmental impact on sea, ensure the safety and security of sea transportation.

8. Scope of Works

- a. Preparation of designs and technical specifications of Class 1 Patrol Vessel
- b. Construction of 20 Units of Class 1 patrol vessel with maximum speed of 30 knots (including machinery and electricity installation, and material certification)

9. Outputs

Availability of 20 Units of Class 1 patrol vessel with maximum speed of 30 knots

10. Outcomes

- a. Enforced of law enforcement of Indonesian constitutional regulation for sea transportation;
- b. Improvement of safety and security of sea transportation;
- c. Improvement of supporting for guarding indonesian borders and over the exclusive economic zone area;
- d. Improvement of marine pollution prevention and recovery such as an oil spill, nature reserve and conservation pollution, etc;
- e. Improvement of supporting rescue efforts at sea.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth;
- b. Strengthening infrastructure to support economic and basic services development;
- c. Strengthening the environment and improving resilience against natural disasters and climate change;
- d. Strengthening the stability of political, legal, and security affairs; and transformation of public services.

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	244,863,000	- Central Government	: US\$	0
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	244,863,000	Subtotal	: US\$	0
TOTAL		: US\$ 244,863,000			

1. Project Title	: Indonesia Air Transport Connectivity Enhancement
2. Program Title	: Transportation Safety and Security Improvement Program
3. Executing Agency	: Ministry of Transportation
4. Implementing Agency	: Directorate General of Civil Aviation
5. Duration	: 60 months
6. Location	: Eastern Indonesia (Sulawesi, Maluku, and Papua Island)

7. Objectives

Supporting pioneer flight to enhance connectivity to remote areas in Indonesia and promoting the development of the domestic aviation industry.

8. Scope of Works

- a. Procurement and maintenance of 4 units of passenger aircraft, 4 units of sea plane aircraft, and 3 units of cargo aircraft;
- b. Procurement of Full Flight Simulator (FFS) level D including maintenance for 5 years;
- c. Procurement of aircraft spare parts;
- d. Air hangar construction;
- e. Improvement of Aircraft workshop capability;
- f. Procurement of Aircraft ground support equipment;
- g. Aircraft & FFS Training program.

9. Outputs

- a. Availability of aircraft for passenger, cargo, and sea plane that are well maintained;
- b. Availability of hangar for aircraft;
- c. Availability of aircraft simulators and pioneer pilot training sites;
- d. Availability of maintenance center/maintenance repair organization for pioneer flight aircraft in Indonesia.

10. Outcomes

- a. Increasing the ratio of connectivity and accessibility in Indonesia especially in remote areas through air transportation
- b. Growth in tourism areas in Indonesia due to increasing accessibility by the means of sea plane
- c. The declining of price disparities in the eastern Indonesia and 3T areas.
- d. Increasing the capabilities of pioneer aircraft pilot in Indonesia
- e. Increasing the quality of pioneer aircraft maintenance facilities in Indonesia

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth;
- b. Developing regions to reduce inequality and to ensure equity;
- c. Strengthening infrastructure to support economic and basic services development.

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	84,790,000	- Central Government	: US\$	0
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	84,790,000	Subtotal	: US\$	0
TOTAL : US\$ 84,790,000					

**Marine Connectivity
Infrastructure
Development Program**

Ministry of Transportation

1. Project Title	: Patimban Port Development Project (II)
2. Program Title	: Marine Connectivity Infrastructure Development Program
3. Executing Agency	: Ministry of Transportation
4. Implementing Agency	: Directorate General of Sea Transport
5. Duration	: 33 months and 29 months
6. Location	: Subang, West Java Province

7. Objectives

To strengthen the port logistic capacity, to reduce the congestion level in Jakarta by moving some freight traffic outside the capital area and to improve total economic activities in the region through the construction of Patimban Port Development Project Phase II.

8. Scope of Works

- a. Construction of container terminal no. 1 and container terminal no. 3;
- b. Dredging of port basin (-14 m & -12.5 m);
- c. Utility works.

9. Outputs

- a. Availability of container terminal with area of ±74 Ha, the capacity up to ± 3.4 million TEUs;
- b. Availability of port basin with the depth of 14 m (for container terminal no. 1) and 12.5 m (for container terminal no. 3).

10. Outcomes

- a. To reduce national logistic cost through an efficient gateway and domestic port.
- b. To increase the economic growth of the country and the local area with the emergence of business around the port;
- c. To increase the capacity of human resources around the port to support and contribute in the operation of the port;

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth;
- b. Development of regions to reduce inequality and to ensure equity ;
- c. Strengthening infrastructure to support economic and basic services development.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 714,790,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 714,790,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 714,790,000	

-
1. **Project Title** : **Port-Led Development**
 2. **Program Title** : Marine Connectivity Infrastructure Development Program
 3. **Executing Agency** : Ministry of Transportation
 4. **Implementing Agency** : Directorate General of Sea Transportation
 5. **Duration** : 60 months
 6. **Location** : Provinces of Maluku, East Nusa Tenggara, Riau Islands, East Kalimantan, Papua, West Papua, and western coast of Sumatera Islands
-

7. Objectives

This program aims to improve the quality of port services by increasing the capacity of port infrastructure, creating good port management by increasing the performance of reliable and efficient port services, and prioritizing shipping safety aspects in supporting sustainable regional development.

8. Scope of Works

- a. Improving and upgrading the capacity of up to 10 (ten) non-commercial ports (including capitalized maintenance) in the provinces of Maluku and East Nusa Tenggara;
- b. Procurement of 3 (three) Ro-Ro vessels to support shipping connectivity pilot in Eastern area of Indonesia;
- c. Port development in provinces of Riau Islands, East Kalimantan, Papua, West Papua, and western coast of Sumatera Islands;
- d. Supporting integrated development of commercial ports, including logistic hubs and industrial zones. This will include providing support for attracting private sector financing and transaction support;
- e. Facilitating the preparation of an assessment of market demand and the preparation of other supporting documents including pre-feasibility study documents, detailed engineering designs, social and environmental studies, etc;
- f. Improvement of the capacity of port human resources with capacity building related to the management of the development and operation of port and shipping services and logistics.

9. Outputs

- a. Up to 10 (ten) non-commercial capacity ports in the provinces of Maluku and East Nusa Tenggara improved and upgraded;
- b. Availability of 3 (three) Ro-Ro vessels to support shipping connectivity pilot in Eastern area of Indonesia;
- c. Ports in provinces of Riau Islands, East Kalimantan, Papua, West Papua, and western coast of Sumatera Islands improved and upgraded;
- d. Technical assistance to support integrated development of commercial ports, including logistic hubs and industrial zones, and technical assistance to support private sector financing and transaction;

- e. Availability of supporting documents including pre-feasibility study, feasibility study, port masterplan, basic designs, social and environmental studies, and other relevant planning documents;
- f. Capacity building to support port development and operation services management.

10. Outcomes

- a. Implementation of efficient, frequent, secure and reliable delivery services as part of increasing inter-island connectivity;
- b. Increase in cargo volume and/or ship visits and unitization of cargo at non-commercial ports;
- c. Connectivity of integrated shipping routes between non-commercial ports and hub/commercial ports;
- d. Increase of private participation in port development;
- e. Reduced logistics costs and price disparities ;
- f. Lowering budget on pioneer shipping services and sea tolls.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth;
- b. Developing regions to reduce inequality and to ensure equity;
- c. Strengthening infrastructure to support economic and basic services development;

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 277,200,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 277,200,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 277,200,000	

**Information and
Communication Technology
Infrastructure Development
Program**

Ministry of Communications and Information Technology

1. Project Title	: Digitalization of Broadcasting System
2. Program Title	: Information and Communication Technology Infrastructure Development Program
3. Executing Agency	: Ministry of Communications and Information Technology
4. Implementing Agency	: Ministry of Communications and Information Technology
5. Duration	: 36 months
6. Location	: 29 Broadcasting Station (Head Office and Local Station) 227 Transmitting Stations nationwide

7. Objectives

Improvement of access to information and education services through TVRI, entering the Digital Broadcast Era and new media service models to reach global networks with the quality, quantity and coverage of terrestrial digital TV broadcasts spread nationwide.

8. Scope of Works

- a. Procurement of transmitting system.
- b. Procurement of broadcast and production studio equipment system.
- c. Procurement of ICT facilities.
- d. Survey, instalation, testing and commissioning.
- e. Operational and maintenance training.
- f. Capacity building includes strategic cooperation with worldclass broadcasters for executive management program, production and operation management, and content creation.

9. Outputs

- a. Digitalization for studio system and equipment in 29 regional broadcasting stations and headquarter of TVRI.
- b. Digitalization for transmitter equipment in 227 transmitting stations.
- c. Integrated IT network to support digital broadcasting system.
- d. Professional human resources in broadcasting.

10. Outcomes

- a. Increased number of service areas covered by digital TV broadcast more than 90% of the total service areas.
- b. Improved video and audio quality with HD and 4K standard.
- c. Improved quality of service (QoS) of the digital TV broadcast in accordance to the prevailing regulation.
- d. Improved professionalism of LPP TVRI in terms of operation as well as organization.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Quality and competitive human resources development.
- b. Strengthening infrastructure to boost economic development and basic services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 373,154,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 37,316,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
Subtotal : US\$ 373,154,000	Subtotal : US\$ 37,316,000
TOTAL : US\$ 410,470,000	

-
1. **Project Title** : **Strengthening of e-Government Infrastructure Phase 2**
 2. **Program Title** : Information and Communication Technology Infrastructure Development Program
 3. **Executing Agency** : Ministry of Communications and Information Technology
 4. **Implementing Agency** : Directorate General of Informatic Application
 5. **Duration** : 60 months
 6. **Location** : East Kalimantan Province, and East Nusa Tenggara Province
-

7. Objectives

- a. Complementing the provision of the national data center ecosystem as part of government policy in the field of e-government, as stipulated through Presidential Regulation no. 95 of 2018 on electronic-based governance system (e-government)
- b. Promoting the effectiveness and efficiency of government spending nationally
- c. Realizing one data Indonesia
- d. Providing bigdata analytics and artificial intelligence systems for government administration
- e. Providing blockchain system in government data management

8. Scope of Works

- a. Provision of two units of national data center government cloud computing):
 - i. National data center for the new national capital region in East Kalimantan
 - ii. National data center for eastern Indonesia region in East Nusa Tenggara
- b. Provision of bigdata analytics technology
- c. Provision of artificial intelligence technology
- d. Provision of blockchain technology
- e. Integration of national data center phase 2 with national data center phase I
- f. Capacity building

9. Outputs

- a. Two units of national data center with technology:
 - i. Cloud computing
 - ii. Bigdata analytic
 - iii. Artificial intelligence
 - iv. Blockchain
- b. Integration of national data center phase 2 with national data center phase I
- c. Capacity building of national data center managers

10. Outcomes

- a. Improving the effectiveness, efficiency, data sovereignty and quality of governance through the implementation of e-government
- b. Encouraging the realization of single source of truth as a form of implementation of one Indonesian data
- c. The realization of more appropriate government policies through the establishment of bigdata analytics
- d. Governance and public services are more qualified
- e. Government data security through the application of blockchain technology

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Strengthening political, legal, as well as national defense and security stability and public services transformation

12. Project Cost

<ul style="list-style-type: none">• Foreign Funding<ul style="list-style-type: none">- Loan : US\$ 720,000,000- Grant : US\$ 20,000,000 <hr/> <p>Subtotal : US\$ 740,000,000</p>	<ul style="list-style-type: none">• Counterpart Funding<ul style="list-style-type: none">- Central Government : US\$ 108,000,000- Regional Government : US\$ 0- State-Owned Enterprise : US\$ 0- Others (RM Pendukung) : US\$ 20,000,000 <hr/> <p>Subtotal : US\$ 128,000,000</p>
TOTAL : US\$ 868,000,000	

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- | | |
|-------------------------------|---|
| 1. Project Title | : Procurement of Multifunctional Satellite-2 (SATRIA-2) |
| 2. Program Title | : Information and Communication Technology Infrastructure Development Program |
| 3. Executing Agency | : Ministry of Communications and Information Technology |
| 4. Implementing Agency | : Public Service Agency of Telecommunication and Information Accessibility Agency (BLU BAKTI) |
| 5. Duration | : 48 months |
| 6. Location | : Manufacture site, Launch site, and Location of Ground Station and Gateway in Indonesia |
-

7. Objectives

Multifunctional Satellite-2 (SATRIA-2) is the procurement of satellite communication systems aimed at serving ICT (Information and Communication Technology) access needs with coverage to all regions of Indonesia. This satellite system is a continuation of the Multifunctional Satellite-I (SATRIA-1) program that only meets part of the broadband capacity aimed for the development of access in the next 5 years. The operating age of this satellite is 15 years.

8. Scope of Works

This project could be consist of 2 satellites (SATRIA-2A and SATRIA-2B) with a capacity of up to 150 Gbps respectively.

- a. For the SATRIA-2A project, the scope of the project is described below:
 - i. Space segment:
 - Satelit Geosynchronous (GSO) with high throughput satellite technology
 - Launch vehicle
 - ii. Earth segment:
 - Gateway (11 unit)
 - Satellite control center (SCC)
 - Network operation center (NOC)
 - Network management center (NMS)
 - Startup hub
 - Reference terminal
 - iii. Other Capital Cost:
 - Other construction costs
 - Insurance
- b. For the SATRIA-2B project, the scope of the project is described below:
 - i. Space segment:
 - Satelit Geosynchronous (GSO) with high throughput satellite technology
 - Launcher
 - ii. Earth segment:
 - Gateway (8 unit)
 - Reference terminal
 - iii. Other Capital Cost:
 - Other construction costs

- Insurance

9. Outputs

The output of the SATRIA-2 satellite system is an internet access capacity of 300 Gbps for service coverage in Indonesia, the requirement for this need has been assessed in the internet access demand analysis in Indonesia.

10. Outcomes

- SATRIA-2 will provide broadband services in areas that are not affordable for another telecommunication access.
- Equitable distribution of ICT facilities for non-commercial/3T areas.
- Serve internet access needs for other ministries/institutions.
- Accelerate the economy of non-commercial areas. It is expected that the areas targeted by infrastructure development by BAKTI will increase economically, and attract private parties to enter and develop the economy in the area.
- Reduce the cost of implementing government programs that use telecommunication facilities and infrastructure.

11. Development Agenda of the National Development in RPJMN 2020-2024

- Strengthening infrastructure to boost economic development and basic services.
- Strengthening political, legal, as well as national defense and security stability and public services transformation

12. Project Cost

<ul style="list-style-type: none"> Foreign Funding 	<ul style="list-style-type: none"> Counterpart Funding
- Loan : US\$ 864,395,000	- Central Government : US\$ 0
- Grant : US\$ 0	- Regional Government : US\$ 0
	- State-Owned Enterprise : US\$ 0
	- Others : US\$ 0
Subtotal : US\$ 864,395,000	Subtotal : US\$ 0
TOTAL : US\$ 864,395,000	

Ministry of Home Affairs

1. Project Title	: Strengthening Population and Civil Registration and Introduction of Digital Identity for Inclusive Service Delivery and Digital Transformation in Indonesia
2. Program Title	: Information and Communication Technology Infrastructure Development Program
3. Executing Agency	: Ministry of Home Affairs
4. Implementing Agency	: Directorate General of Population and Civil Registration (Dukcapil)
5. Duration	: 48 months
6. Location	: DKI Jakarta Province

7. Objectives

This project aims to support inclusion and digital transformation of service delivery in Indonesia, which can be attained through strengthening population and civil registration, ICT management, HR management, data utilization, administration support and development of Digital ID to enable inclusive, trusted, effective and efficient services online and in-person. Trusted Digital ID will support digital transformation of the Government of enable digital government services and digital economy growth, as well as supporting the economic growth objectives and help poverty reduction efforts. The use of Digital ID will allow budget savings from printing and distribution of physical cards (as physical credentials) which absorbs the highest portion of PR/CR financing in Indonesia, and other reduces administrative costs of moving from paper and manual to digital and automated service access.

8. Scope of Works

- a. Strengthening PR/CR registration and a sustainable data update processes to ensure that population data is complete and up to date, and to ensure effective and efficient service.
- b. Digitalizing PIVCR administration in sub-national Dukcapil offices and streamlining processes
- c. Implementing outreach and special operations to close coverage gaps in eastern provinces and other areas with lower levels of coverage, as well as among vulnerable populations.
- d. Developing automated linkages with the health sector or more timely birth and death registration, including causes of death, and better vital statistics, as well as automation with other sectors including among others KUA (Religious Affairs Office), Religious Courts and immigration
- e. Upgrading main and backup ICT infrastructure (software and hardware) to enable efficient business processes and to meet increasing demands for secure, ubiquitous and privacy protected PR/CR and identity services as well as data exchange (utilization).
- f. Providing scalable biometric verification and e-KYC systems and services.
- g. Introduction of digital ID linked to legal identity, including a mobile phone-based version of the e-KTP and development of a trust framework for on line identity verification, to replace physical credentials (KTP-el) and to explore cross-border mutual recognition of digital identification with other ASEAN countries (e.g. Malaysia, Singapore and/or Thailand).

- h. Providing investments and development of systems, processes and capacity to ensure data protection and the security of population data.
- i. Preparing and developing management capacity and human capital of Dukcapil to perform its mandates.
- j. Digitalizing and streamlining Dukcapil administrative processes and systems to promote efficiency and ensure transparency, accountability and client satisfaction.
- k. Project management, including establishment and operations of a project management office, procurement, financial management and monitoring and evaluation.
- l. Service design implementation and additional support / technical assistance for utilizing population data for strategic government priorities, i.e., vaccine delivery, social assistance, national health insurance coverage, and financial inclusion, as well as for public services, development planning, budget allocations, strengthening democracy, and law enforcements.
- m. Cross ministerial collaboration and coordination to support the implementation of aforementioned national strategic program.
- n. Transparency of Dukcapil's population data utilization services, including transparency portal and/or report.
- o. Monitoring over the handling of personal data by Dukcapil.

9. Outputs

- a. Improved Nationally integrated Population/Civil Registration System to support CRVS ecosystem
 - i. 100% population has a Population Identification Number, birth certificate, marriage book, divorce and death record covering remote areas.
 - ii. More accurate, complete, and timely civil registration and vital statistics.
 - iii. Civil registration services that covering all of Indonesia and all Indonesian representative offices outside the territory of Indonesia.
 - iv. Improved operational efficiency of population and civil registration services.
- b. Improved human resource and institutional capacity
 - i. Increased efficiency and ensured transparency, accountability and user satisfaction by digitizing and streamlining Dukcapil administrative processes and systems.
 - ii. Project management, including building a project management team consisting of procurement, financial management, and monitoring and evaluation.
- c. Established population administration system infrastructure and institutional.
 - i. Data protection standards and information security management systems, including through technical regulations and supervision/monitoring within the Ministry of Home Affairs.
 - ii. Service systems and management as well as data utilization that comply with regulations on personal data protection and information security.
- d. Digital identity which was developed through a related trust framework.
 - i. Regencies/cities that use digital identity for public services.
 - ii. Verification system by utilizing biometric data and e-KYC.
 - iii. Significant budget savings in card printing.

10. Outcomes

- a. Population data and vital statistics that are more accurate, complete and timely.

- b. Improved quality, access and innovation in service delivery for the public and private sectors.
- c. Increased public trust and data protection in digital transactions.
- d. Reduced corruption, waste and the potential for fraud.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Increasing the quality of human resources and competitiveness
- c. Strengthening infrastructure to support economic development and basic services
- d. Strengthening political, legal, defense, and security stability and transformation of public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 250,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others (RM Pendukung) : US\$ 0
<hr/> Subtotal : US\$ 250,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 250,000,000	

National Cyber and Crypto Agency (BSSN)

-
1. **Project Title** : **Strengthening Cyber Security Ecosystem in Indonesia**
 2. **Program Title** : Information and Communication Technology Infrastructure Development Program
 3. **Executing Agency** : National Cyber and Crypto Agency
 4. **Implementing Agency** : a. Deputy of Operations of Cybersecurity and Cryptography
b. Center for Data and Information and Communication Technology
 5. **Duration** : 36 months
 6. **Location** : DKI Jakarta and West Java Province
-

7. Objectives

- a. Realization of national cyber security through strengthening National Security Operation Center (NSOC)
- b. Improving strategic data backup center of national vital information infrastructure sectors
- c. Computer Security Incident Response Team (CSIRT) capacity building development

8. Scope of Works

- a. Cyber Security Technology infrastructure development
- b. Strengthening the capacity and capability of CSIRT

9. Outputs

- a. Internet traffic anomaly monitoring system
- b. National strategic data backup center
- c. Cyber security simulation laboratories for national vital information infrastructure sectors
- d. International certification for CSIRT's human resources in the field of cyber incident handling

10. Outcomes

- a. The availability of comprehensive information related to internet traffic anomalies in Indonesia (cyber threats)
- b. Availability of national strategic backup data services
- c. Increasing the shared capabilities of cyber security multistakeholders in handling cyber incidents

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening political, legal, defense and security stability and transforming public services

12. Project Cost

<ul style="list-style-type: none">• Foreign Funding		<ul style="list-style-type: none">• Counterpart Funding	
- Loan : US\$	250,000,000	- Central Government : US\$	22,500,000
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others (RM Pendukung): US\$	0
		<hr/>	
Subtotal : US\$	250,000,000	Subtotal : US\$	22,500,000
<hr/>			
TOTAL : US\$	272,500,000		

Fisheries and Marine Management Program

Ministry of Marine Affairs and Fisheries

-
1. **Project Title** : **Integrated of Fishing Ports and International Fish Markets Phase I**
 2. **Program Title** : Fisheries and Marine Management Program
 3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
 4. **Implementing Agency** : a. Directorate General of Capture Fisheries
b. Directorate General of Competitiveness Strengthening of Marine and Fishery Products
 5. **Duration** : 60 months
 6. **Location** : 26 fishing ports, nationwide, including 3 major project locations
-

7. Objectives

- a. To develop integrated fishing port and fish markets which comply with international standards
- b. To improve infrastructure and facilities of fishing ports
- c. To increase Indonesia's fisheries export and added value of fisheries products

8. Scope of Works

- a. Preparation stage covers connectivity study, development study and detail design/DED, including analysis of sedimentation in fishing port and and fish market management systems.
- b. Construction works of basic, functional and supporting facilities.
- c. Supply of goods and equipment, among other for data processing equipment and office equipment, environmental control, communication and information system, as well as fish market management system.
- d. Training and transfer of knowledge and technology in the form of fishing port overseas training; fishing port and international fish market capacity building training (management, operation and maintenance), dissemination, workshop and consultation
- e. Maintenances and supervision of construction works

9. Outputs

- a. Availability of 3 (three) fishing ports which are integrated with the international fish market
- b. Improved fishing port facilities available in 26 locations (consisting of 3 major project locations and 23 other locations), as a hub and feeder fishing port to support connectivity of fishing ports and international standard fish markets.
- c. Implementation of fishing port management on training and / or transfer technology for 6 (six) training categories and market management.

10. Outcomes

- a. Improve fishing port operational services by 10% in 2025
- b. Increase export value of fisheries products

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening economic resilience for quality of growth and equitability

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	199,038,000	- Central Government	: US\$	6,000,000
			- Regional Government	: US\$	0
- Grant	: US\$	962,000	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	200,000,000	Subtotal	: US\$	6,000,000
<hr/>			<hr/>		
TOTAL		: US\$ 206,000,000			

1. Project Title	: Maritime and Fisheries Integrated Surveillance System
2. Program Title	: Fisheries and Marine Management Program
3. Executing Agency	: Ministry of Marine Affairs and Fisheries
4. Implementing Agency	: Directorate General of Surveillance for Marine and Fisheries Resources
5. Duration	: 48 months
6. Location	: DKI Jakarta and Bali Province

7. Objectives

To provide an integrated surveillance systems infrastructure on the land and sea in order to improve surveillance of marine and fishery resources

8. Scope of Works

- a. Procurement of 3 (three) fisheries patrol vessels
- b. Construction and development maritime integrated surveillance and communications network systems including maritime information services
- c. Construction and development of Signal Intelligence (SIGNIT) system
- d. Capacity building

9. Outputs

- a. The constructed fisheries patrol vessels
- b. The integrated and operated marine resources and fisheries monitoring/surveillance system

10. Outcomes

Increased coverage of Fisheries Management Area (WPP NRI) monitored from illegal fishing

11. Development Agenda of the National Development in RPJMN 2020-2024

Stable political, legal, and security affairs, and transformation of public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 159,500,000 - Grant : US\$ 2,500,000 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 162,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 162,000,000	

-
1. **Project Title** : **Integrated of Fishing Ports and International Fish Market Phase II**
 2. **Program Title** : Fisheries and Marine Management Program
 3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
 4. **Implementing Agency** : Directorate General of Capture Fisheries, Ministry of Marine Affairs and Fisheries
 5. **Duration** : 48 months
 6. **Location** : Riau Island Province (Natuna Regency Batam City, Maluku Province (Tual City), North Kalimantan Province (Nunukan Regency), Papua Province (Mimika Regency, Biak Regency), West Sumatra Province (Padang City), West Nusa Tenggara (Lombok Tengah Province), West Java Province (Sukabumi Regency), Bangka Belitung Island Province (Belitung Regency), East Nusa Tenggara Province (Kupang City), DKI Jakarta
-

7. Objectives

The Integrated Fishing Ports and International Fish Markets Program aims to provide quality assurance and added value of fish products, to increase national foreign exchange, income of fishers, and ensure sustainable raw materials for fish processing industry, through improving fishing ports infrastructure and facilities which comply with international standards on service quality and environment

8. Scope of Works

- a. Preparation, including preparation of fishing port development documents (master plan review and design details) and preparation of ISO 14001 certification.
- b. Construction work for basic facilities, functional facilities and supporting facilities for fishing ports and fish markets.
- c. Procurement of goods and equipment, among others data processing and office equipment, facilities and infrastructure for fish catches loading and unloading, communication networks and information systems.
- d. Training, transfer of knowledge and technology including overseas fishing port training; international standard fish markets and ports capacity development training (management, operation and maintenance), alternative energy studies, dissemination, workshops and consultations.
- e. Supervision of construction and maintenance work.

9. Outputs

- a. Improved fishing port facilities in 12 locations, as to feeder fishing ports to support connectivity of international standard fishing ports and fish markets
- b. Fishing port management training and/or transfer technology for 5 (five) categories of training programs

- c. Improved fishing port capacity, management system and data management in 12 fishing ports

10. Outcomes

- a. Increased effectiveness of integrated fishing port management.
- b. Improved fishing port operational services in supporting international fish markets by 10%.
- c. Improved performance of fishing port operational services by 10%.
- d. Increased consumption and export of fisheries products.
- e. Development of integrated fisheries business centers.
- f. Increased income of fishermen, marketers, and other fisheries stakeholders.

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening economic resilience for quality of growth and equitability

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 400,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
Subtotal : US\$ 400,000,000	Subtotal : US\$ 0
TOTAL : US\$ 400,000,000	

1. **Project Title** : **Maritime and Fisheries Integrated Surveillance System Phase II**
 2. **Program Title** : Fisheries and Marine Management Program
 3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
 4. **Implementing Agency** : Directorate General of Surveillance for Marine and Fisheries Resources
 5. **Duration** : 36 months
 6. **Location** : DKI Jakarta, West Sumatra (Bungus), Riau Island (Natuna regency), Central Java (Cilacap regency), Bali (Badung Regency), Maluku (Ambon), East Nusa Tenggara (Kupang city), and Papua (Merauke) Province
-

7. Objectives

Maritime and Fisheries Integrated Surveillance System Phase II aims to provide an integrated monitoring system for marine and fishery resources in the form of monitoring facilities and infrastructure to improve the compliance of marine and fishery business actors in Indonesia's Fisheries Management Area (WPP NRI).

8. Scope of Works

- a. Building patrol vessels with criteria: good stability, sailing ability, low maintenance costs, low ship glare, compatibility to dock in ports of other neighboring countries.
- b. Building pier yard for patrol vessels.
- c. Building office facilities to support surveillance operation.
- d. Building *Regional Monitoring Centers* along with a metro-ethernet network between central and regional areas.

9. Outputs

- a. 5 unit of patrol vessel built and procured;
- b. 5 unit of pier yard for patrol vessel constructed;
- c. Office facilities for surveillance operation built in 6 locations; and
- d. Regional monitoring center in 14 locations.

10. Outcomes

- a. Increased coverage of WPPNRI monitored from Illegal Fishing activities to 75%
- b. Increased compliance of marine and fisheries business actors to 98%

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening the environment and improving resilience against natural disasters and climate change
- c. Strengthening the stability of political, legal, and security affairs; and transformation of public services

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	200,000,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	200,000,000	Subtotal	: US\$	0
TOTAL	: US\$	200,000,000			

-
1. **Project Title** : **Integrated and Revitalization Shrimp Farming Program**
 2. **Program Title** : Fisheries and Marine Management Program
 3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
 4. **Implementing Agency** : Directorate General of Aquaculture
 5. **Duration** : 48 months
 6. **Location** : Lampung Province, Aceh Province (East Aceh Regency), South Kalimantan Province (Kota Baru Regency), Southeast Sulawesi Province (Muna Regency, South Konawe Regency), West Nusa Tenggara Province (Sumbawa Regency)
-

7. Objectives

Integrated and revitalization of shrimp farming is expected to give impacts, such as: (i) improved welfare of shrimp farmers; (ii) improved production and productivity of traditional shrimp farm; (iii) job opportunities; (iv) increased country's foreign exchange earnings; and (v) increased tax revenues.

8. Scope of Works

- a. Integrated Shrimp Farming:
 - i. Planning and preparation, including Detail Engineering Design (DED) preparation;
 - ii. Construction of shrimp aquaculture facilities, including ponds, reservoir, water intake & outlet, waste water treatment facilities, laboratory, bio-security measures, command centre, and generator;
 - iii. Construction of supporting facilities, including power plant, offices, road, public facilities, and guard post; and
 - iv. Capacity Building.
- b. Small-Scale Shrimp Pond Revitalization:
 - i. Planning and preparation, survey and mapping of prospective locations, and the preparation of detailed engineering design (DED);
 - ii. Construction of shrimp aquaculture infrastructure work, includes: construction of shrimp cultivation pond, tandon/reservoir, inlet channel, outlet channels, wastewater processing installation, support facilities (feed warehouse, harvest house, and generator room) , bio-security fence, power plant;
 - iii. Procurement of pond facilities (paddle wheel aerator, generator and pump) production inputs (seed, feed, and medicines);
 - iv. Capacity building and technical support; and
 - v. Management support.

9. Outputs

The expected output are:

- a. Construction of 2,500 hectares of integrated shrimp farming in 4 locations which produce 60,000 tonnes of shrimp per year tons/year;
- b. Revitalization of 500 hectares of traditional shrimp farming areas to be semi-intensive in 2 locations which produce 7,500 tonnes of shrimp per ha

10. Outcomes

The expected outcomes of Shrimp Estate Development Program activities are:

- a. Increased aquaculture production to 10.32 million tons (including shrimp production by in 2024, or 8.5 percent growth per year;
- b. Shrimp export volume increased by 8% per year and shrimp export value grow by 250% from 2019 to 2024.

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening economic resilience for quality and equitable growth

12. Project Cost

<ul style="list-style-type: none">• Foreign Funding- Loan : US\$ 500,000,000- Grant : US\$ 0	<ul style="list-style-type: none">• Counterpart Funding- Central Government : US\$ 0- Regional Government : US\$ 0- State-Owned Enterprise : US\$ 0- Others : US\$ 0
<hr/> Subtotal : US\$ 500,000,000	<hr/> Subtotal : US\$ 0
<hr/> TOTAL : US\$ 500,000,000	

-
1. **Project Title** : **Development of the System for Monitoring and Controlling for Marine Space Utilization**
 2. **Program Title** : Fisheries and Marine Management Program
 3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
 4. **Implementing Agency** : Directorate General of Capture Fisheries
 5. **Duration** : 48 months
 6. **Location** : DKI Jakarta, West Sumatra Province (Padang City), Riau Province (Pekanbaru City), Banten Province (Serang City), West Kalimantan Province (Potianak City), Bali Province (Denpasar City), South Sulawesi Province (Makassar City), (East Nusa Tenggara (Kupang City), West Papua Province (Sorong City), Maluku Province (Ambon City)
-

7. Objectives

Development of the system for monitoring and controlling for marine space utilization aims improve the capability of the monitoring and controlling system for the utilization of existing marine space on the surface, column, as well as bottom of the water/sea.

8. Scope of Works

- a. Planning of DSS system and monitoring infrastructure
- b. Database development and strengthening of supporting infrastructure
- c. Implementation of marine spatial planning acceleration DSS System
- d. Strengthening the capacity of human resources both in central office as well as in Technical Implementation Unit (*Unit Pelaksana Teknis/UPT*)

9. Outputs

- a. Availability of DSS system planning and monitoring infrastructure at 10 locations :
 - i. Development of DSS system and integrated monitoring equipment of central office and UPT;
 - ii. Development of high-tech underwater survey equipment.
- b. Availability of database development and strengthening of supporting infrastructure at 10 locations :
 - i. Database development planning, utilization and control of marine space utilization;
 - ii. Strengthening the integrated database system with INDESO/Pusdatin.
- c. Implementation of marine spatial mapping acceleration DSS system at 10 locations:
 - i. Planning system implementation, utilization–OSS/KKPRL;
 - ii. Implementation of controlling the use of marine space at the center and UPT.
- d. Strengthening the capacity of central HR and UPT at 10 locations:
 - i. Implementation of the marine space utilization OSS system at the central office and UPT.

10. Outcomes

Increased efficiency of the monitoring process of the use of marine space on the surface, column and seabed significantly and increasing orderly use/utilization of marine space in accordance with clear zoning designations and legality of permits at each level of marine space planning.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Developing regions to reduce inequality and to ensure equity

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	80,000,000	- Central Government	: US\$	0
			- Regional Government	: US\$	0
- Grant	: US\$	20,000,000	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	100,000,000	Subtotal	: US\$	0
TOTAL : US\$ 100,000,000					

-
1. **Project Title** : **Satellite Constellation Mission for Marine and Fisheries Resources**
 2. **Program Title** : Fisheries and Marine Management Program
 3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
 4. **Implementing Agency** : Secretary General, Ministry of Marine Affairs and Fisheries
 5. **Duration** : 48 months
 6. **Location** : DKI Jakarta Province, North Sulawesi Province, and Bali Province
-

7. Objectives

Providing nano satellite systems infrastructure to improve integrated and sovereign monitoring capabilities of marine and fishery resources.

8. Scope of Works

- a. Developing and launching 20 nano satellite
- b. Construction of two ground receiving stations in Indonesia
- c. Construction of 1 nano satellite assembly facilities and 1 transponder manufacturing plant
- d. Project management and capacity building

9. Outputs

- a. A constellation of 20 nanosatellites comprises of VDES, optical, and SIGINT payload
- b. Two ground receiving stations operational
- c. One nano satellite assembly facilities and one transponder manufacturing plant
- d. Low-cost transponder of VHF data exchange systems (VDES)

10. Outcomes

- a. Reducing operational costs for marine and fisheries resource monitoring
- b. Increasing the capacity of existing integrated maritime intelligence platform by building a dedicated and independent monitoring system based on nano-satellite
- c. Reducing dependency on foreign commercial satellite
- d. Strengthening surveillance capacity to monitor all activities especially illegal fishing in the surveillance area
- e. Faster information relay from dedicated monitoring systems enabling MMAF to take rapid and targeted action.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening political, legal, defense and security stability and transforming public services

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	163,642,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	163,642,000	Subtotal	: US\$	0
TOTAL		: US\$ 163,642,000			

Health Services Improvement Program

Ministry of Health

1. Project Title	: Improvement of Facilities and Infrastructure for Teaching and Learning Activities in Health Sector Project
2. Program Title	: Health Services Improvement Program
3. Executing Agency	: Ministry of Health
4. Implementing Agency	: a. Health Polytechnics b. Ministry of Health Training Center c. Board for Education Center for Health Professionals d. Board for Development and Empowerment Human Health Resources
5. Duration	: 60 months
6. Location	: Papua, Java, Sumatera, and Sulawesi Island

7. Objectives

- a. Building an integrated system concept for teaching and learning in improving systems and institutions at the central and regional levels.
- b. Improving facilities, infrastructure and equipment for teaching learning process of Health Polytechnic.
- c. Improving facilities, infrastructure, and equipment to support the training process at two Health Training Centers.

8. Scope of Works

- a. Improvement of education and training service infrastructure.
- b. Improvement of educational facilities / laboratories / offices.
- c. Increased human resource capacity.
- d. Development of educational curricula and modules.
- e. Project management.

9. Outputs

- a. Fulfilled education and training service infrastructure facilities.
- b. Fulfilled educational / laboratory / office facilities.
- c. Increased number of human resources.
- d. The number of educational curricula and modules increases.

10. Outcomes

- a. The number of health polytechnics and health training centers which are well accredited and very good.
- b. Minimum number of accredited intervening study programs B.

11. Development Agenda of the National Development in RPJMN 2020-2024

Increasing quality and competitive human resources.

12. Project Cost

• Foreign Funding			• Counterpart Funding		
Loan	: US\$	109,400,000	Central Government	: US\$	9,200,000
			Regional Government	: US\$	0
Grant	: US\$	0	State-Owned Enterprise	: US\$	0
			Others	: US\$	0
Subtotal	: US\$	109,400,000	Subtotal	: US\$	9,200,000
TOTAL		: US\$ 118,600,000			

-
- | | |
|-------------------------------|--|
| 1. Project Title | : Strengthening Indonesia’s Healthcare Referral Network |
| 2. Program Title | : Health Services Improvement Program |
| 3. Executing Agency | : Ministry of Health |
| 4. Implementing Agency | : Directorate General of Health Services |
| 5. Duration | : 48 months |
| 6. Location | : Nationwide |
-

7. Objectives

- a. Strengthening referral system in Indonesia health services capacity by providing quality health access and equal all cities, regional, and provinces throughout the Indonesia
- b. Reducing the number of cancer, heart, stroke, and uro-nefrologi (KJSU) diseases

8. Scope of Works

- a. Procurement of health equipment for cancer, heart, stroke, and uro nefrologi (KJSU) diseases treatment strata paripurna, utama, & madya in general government hospital and vertical hospital unit;
- b. Enhancement of the referral service network and information System
- c. Project management
- d. Financial audit

9. Outputs

- a. Number of referral hospital strata paripurna, utama, madya equipped with complete cancer, heart, stroke, and uro nefrologi (KJSU) diseases treatment
- b. Number of referral hospital strata paripurna, utama, madya whose personnel have received adequate training to operate and maintain newly installed equipment
- c. Number of lower-level referral hospital health professionals and medical staff who have received technical and management training from upper-level hospital specialists
- d. Percentage of referral hospital strata paripurna, utama, madya that frequently report KJSU data in SIRS online

10. Outcomes

- a. Number of general government hospital and vertical hospital unit that operated as referral hospital strata paripurna for cancer, heart, stroke, and uro nefrologi (KJSU) diseases treatment;
- b. Number of province in Indonesia that at least have 1 general regional government hospital that operated as referral hospital strata utama for cancer, heart, stroke, and uro nefrologi (KJSU) diseases treatment
- c. Number of city in Indonesia that at least have 1 referral hospital that operated as referral hospital strata madya for cancer, heart, stroke, and uro nefrologi (KJSU) diseases treatment
- d. Number of patients accessing cancer, heart, stroke, and uronephrology referral services
- e. Percentage of KJSU data reporting records integrated into the national SATUSEHAT platform from referral hospital strata paripurna, utama, madya

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Improving human resources quality & competitiveness
- b. Strengthening infrastructure to support economic and basic services development
- c. Regional development to reduce inequalities

12. Project Cost

<ul style="list-style-type: none">• Foreign Funding		<ul style="list-style-type: none">• Counterpart Funding	
Loan	: US\$ 1,802,549,166	- Central Government	: US\$ 178,254,917
Grant	: US\$ 0	- Regional Governmen	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
<hr/>		<hr/>	
Subtotal	: US\$ 1,802,549,166	Subtotal	:US\$ 178,254,917
TOTAL : US\$ 1,980,804,083			

1. Project Title	: Strengthening of Primary Healthcare in Indonesia
2. Program Title	: Health Services Improvement Program
3. Executing Agency	: Ministry of Health
4. Implementing Agency	: Directorate General of Public Health
5. Duration	: 60 months
6. Location	: Nationwide

7. Objectives

The project has the twofold objective of:

- a. Improving the equity and quality of primary health care service delivery across Indonesia and
- b. Strengthening the detection capacity of Labkesmas tier 1 (*Puskesmas*) systems to increase Indonesia's pandemic preparedness and response (PPR).

8. Scope of Works

- a. Procurement of equipment for health service delivery equipment gap closure at *Puskesmas*, *Puskesmas Pembantu* (Pustu) or *Pos Kesehatan Desa* (Poskesdes), and *Posyandu* facilities in Indonesia.
- b. Procurement of equipment for laboratory gap closure at *Puskesmas* facilities (Labkesmas tier 1) in Indonesia.
- c. Ensuring the maintenance of equipment and operational skill transfer to staff in these facilities at *Puskesmas*, *Puskesmas Pembantu* (Pustu) or *Pos Kesehatan Desa* (Poskesdes), *Posyandu*, and laboratory at *Puskesmas* facilities (Labkesmas tier 1) in Indonesia.
- d. Management project

9. Outputs

- a. Equipment for *Puskesmas* delivered, installed and operational
- b. Equipment for *Labkesmas* tier 1 delivered, installed and operational
- c. *Puskesmas Pembantu* (Pustu) network adequately equipped
- d. *Posyandu* network adequately equipped
- e. *Puskesmas* staff adequately trained in health and laboratory equipment operation and maintenance
- f. *Puskesmas Pembantu* (Pustu) staff adequately trained in equipment operation and maintenance
- g. *Posyandu* staff adequately trained in equipment operation and maintenance

10. Outcomes

- a. Increased primary care-level supply-side readiness for the prevention, detection, and treatment of communicable diseases and NCDs, and reduced pressure on higher-level health facilities
- b. Improved PPR of Indonesia's health care system

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Improving human resources quality & competitiveness
- b. Strengthening infrastructure to support economic and basic services development

12. Project Cost

• Foreign Funding		• Counterpart Funding	
Loan : US\$	1,586,622,186	Central Government : US\$	0
Grant : US\$	0	Regional Government : US\$	0
		State-Owned Enterprise : US\$	0
		Others : US\$	0
Subtotal : US\$	1,586,622,186	Subtotal : US\$	0
TOTAL : US\$ 1,586,622,186			

1. Project Title	: Indonesia-Public Laboratory System Strengthening
2. Program Title	: Health Services Improvement Program
3. Executing Agency	: Ministry of Health
4. Implementing Agency	: Directorate General of Public Health
5. Duration	: 60 months
6. Location	: Nationwide

7. Objectives

Strengthening Tier 2-5 public health laboratory (Labkesmas) to enhance its capacity for early detection disease and pandemic preparedness and response (PPR)

8. Scope of Works

- a. Procurement of equipment for Tier 2-5 public health laboratory (Labkesmas) including installation
- b. Training public health laboratory staff for operating and maintenance the installed equipment;
- c. Management project

9. Outputs

- a. Equipment for Tier 2-5 public health laboratory (Labkesmas) that have been delivered, installed, and fully operational
- b. Tier 2-5 public health laboratory (Labkesmas) staff that have been trained to operate and maintain the newly installed equipment

10. Outcomes

- a. Equipment and trained personnel gap of public health laboratory (Labkesmas) tiers 2-5 has been closed/solved;
- b. Equitable access to high-quality laboratory diagnostics services across Indonesia;
- c. Rapid and accurate detection and monitoring of emerging and re-emerging public health threats.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Improving human resources quality & competitiveness
- b. Strengthening infrastructure to support economic development and basic services development
- c. Build the environment, improve disaster resilience and climate change.

12. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
Loan	: US\$ 589,600,000	Central Government	: US\$ 0
Grant	: US\$ 0	Regional Government	: US\$ 0
		State-Owned Enterprise	: US\$ 0
		Others	: US\$ 0
Subtotal	: US\$ 589,600,000	Subtotal	: US\$ 0
TOTAL : US\$ 589,600,000			

Government of North Sumatra Province

1. Project Title	: Construction of Hajj General Hospital Medan to International Standard
1. Program Title	: Health Services Improvement Program
2. Executing Agency	: Government of North Sumatra Province
3. Implementing Agency	: Government of North Sumatra Province
4. Duration	: 24 months
5. Location	: North Sumatra Province

6. Objectives

- a. Expanding the area of General Hospital Haji Medan to Build Tower, Front office, Emergency Installation increase the number of inpatient rooms, poly, beds, hemodialysis, ICU, ICCUs, PICUs, NICUs, radiology, laboratory, medical rehabilitation, pharmacy, baby's rooms, recovery rooms, and other support rooms, parking lots, kitchens, laundry, cafeteria, upgrade the medical devices, WWTP, plumbing, hydrant, and electrical grid systems, and other types of medical services.
- b. Availability of the facilities and infrastructures as well as medical services and personnel that meet the standards of class A and international hospitals.
- c. Availability of quality health services at the General Hospital Medan Haji by prioritizing customer satisfaction.

7. Scope of Works

- a. Construction of tower A- 10 floors (I block)
- b. Construction of tower B - 10 floors (I block)
- c. Construction of front office + cafeteria
- d. Renovation of emergency room
- e. Renovation of old OK's room (surgery rooms)
- f. Procurement of medical devices at tower A and B
- g. Rehabilitation of the electric grid system
- h. WWTP & plumbing & hydrant system rehabilitation
- i. Human resource capacity strengthening
- j. Expansion of kitchen and laundry space

8. Outputs

- a. Affordable international recommendation hospital across North Sumatra Province
- b. Development of a competitive advanced tertiary hospital
- c. Availability of the facilities and infrastructures as well as medical services and personnel that meet the standards of class A and international hospitals

9. Outcomes

- a. High quality health can provided at affordable prices
- b. Increasing the accessibility of public to quality health service facilities
- c. Creating the employment and professional/trained human resources as international standards

d. Improving the quality of health and human development across North Sumatra Province

10. Development Agenda of the National Development in RPJMN 2020-2024

- a. Improve the quality of human resources and competitiveness;
- b. Strengthening infrastructure to support economic development and basic services
- c. Strengthening political, legal, as well as national defense and security stability and public services transformation

11. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 66,712,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
Subtotal : US\$ 66,712,000	Subtotal : US\$ 0
TOTAL : US\$ 66,712,000	

Ministry of Defense

1. Project Title	: Upgrading Medical Equipment and Support for Army Hospitals
2. Program Title	: Health Services Improvement Program
3. Executing Agency	: Ministry of Defense
4. Implementing Agency	: a. Ministry of Defense b. Indonesian Army
5. Duration	: 36 months
6. Location	: Nationwide

7. Objectives

To improve health care services and to upgrade supporting facilities and services for the hospital

8. Scope of Works

- a. Procurement and instalment of medical equipment
- b. Training for operating of medical equipments
- c. Training for maintenance of medical equipment and hospital system development

9. Outputs

Procurement medical equipments and supporting facilities for 19 army hospitals:

- a. Army Hospital Dustira;
- b. Army Hospital Soedjono;
- c. Army Hospital Pelamonia;
- d. Army Hospital dr. AK Gani;
- e. Army Hospital Salak;
- f. Army Hospital dr. R Hardjanto;
- g. Army Hospital Kartika Husada;
- h. Army Hospital Prof. Dr. J. A. Latumeten;
- i. Army Hospital Marthen Indey;
- j. Army Hospital Moh Ridwan Meuraksa;
- k. Army Hospital Iskandar Muda;
- l. Field Hospital for Kodam XVI Pattimura, Kodam XVII Cendrawasih, and Kodam XVIII Kasuari;
- m. Pharmaceutical Institute, Army Medical Center;
- n. Biomedical Institute, Army Medical Center;
- o. Biology Vaccine Institute, Army Medical Center;
- p. Medical Equipment Institute, Army Medical Center;
- q. Army Hospital Tk. IV Gorontalo;
- r. Army Hospital DR. Noesmir Baturaja.

10. Outcomes

- a. Improving the quality of hospital services
- b. Improving public welfare
- c. Optimized effectiveness military operation conducted by Indonesian Army.

11. Development Agenda of the National Development in RPJMN 2020-2024

Stable political, legal, and security affairs, and transformation of public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 187,704,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 187,704,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 187,704,000	

- 1. **Project Title** : **Upgrading Medical Equipment and Support for Navy Hospitals**
- 2. **Program Title** : Health Services Improvement Program
- 3. **Executing Agency** : Ministry of Defense
- 4. **Implementing Agency** : a. Ministry of Defense
b. Indonesian Navy
- 5. **Duration** : 36 months
- 6. **Location** : Nationwide

7. Objectives

To improve health care services and to upgrade supporting facilities and services for the hospital

8. Scope of Works

- a. Procurement and instalment of medical equipment
- b. Training for operating of medical equipment
- c. Training for maintenance of medical equipment and hospital system development

9. Outputs

Procurement medical equipments and supporting facilities for 6 navy hospitals:

- a. Naval Hospital dr. Midiyanto suratani and Naval Hospital dr. Komang Belawan
- b. Naval Hospital dr. Ilyas and Naval Hospital dr. R Ghandi AT
- c. Naval Hospital dr. Mintohardjo
- d. Marine Corps Health Batallion
- e. Naval Hospital Teeth and Mouth R.E. Martadinata

10. Outcomes

- a. Improving the quality of hospital services
- b. Improving public welfare
- c. Optimized effectiveness military operation conducted by Indonesian Navy.

11. Development Agenda of the National Development in RPJMN 2020-2024

Stable political, legal, and security affairs, and transformation of public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 55,358,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 55,358,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 55,358,000	

-
- 1. **Project Title** : **Upgrading Medical Equipment and Support for Airforce Hospitals**
 - 2. **Program Title** : Health Services Improvement Program
 - 3. **Executing Agency** : Ministry of Defense
 - 4. **Implementing Agency** : a. Ministry of Defense
b. Indonesian Air Force
 - 5. **Duration** : 36 months
 - 6. **Location** : Nationwide
-

7. Objectives

To improve health care services and to upgrade supporting facilities and services for the hospital

8. Scope of Works

- a. Procurement and instalment of medical equipment
- b. Training for operating of medical equipment
- c. Training for maintenance of medical equipment and hospital system development

9. Outputs

Upgrading facilities and procurement for 7 air force hospital:

- a. Air Force Hospital dr Kresno Manuhua;
- b. Air Force Hospital dr. Hoediyono;
- c. Air Force Hospital El Tari;
- d. Field Hospital for Air Force
- e. Air Force Hospital dr. Efram Harsana

10. Outcomes

- a. Improving the quality of hospital services
- b. Improving public welfare
- c. Optimized effectiveness military operation conducted by Indonesian Air Force.

11. Development Agenda of the National Development in RPJMN 2020-2024

Stable political, legal, and security affairs, and transformation of public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding <li style="padding-left: 20px;">- Loan : US\$ 78,177,000 <li style="padding-left: 20px;">- Grant : US\$ 0 <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 78,177,000 	<ul style="list-style-type: none"> • Counterpart Funding <li style="padding-left: 20px;">- Central Government : US\$ 0 <li style="padding-left: 20px;">- Regional Government : US\$ 0 <li style="padding-left: 20px;">- State-Owned Enterprise : US\$ 0 <li style="padding-left: 20px;">- Others : US\$ 0 <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 0
TOTAL : US\$ 78,177,000	

-
1. **Project Title** : Procurement of Medical Equipment for Ministry of Defense
 2. **Program Title** : Health Services Improvement Program
 3. **Executing Agency** : Ministry of Defense
 4. **Implementing Agency** : Ministry of Defense
 5. **Duration** : 24 months
 6. **Location** : DKI Jakarta
-

7. Objectives

- a. To improve medical equipment and supporting facilities
- b. To improve health care service
- c. To improve capacity in fight the Covid-19 pandemic and strengthening health facilities
- d. To improve hospital classification

8. Scope of Works

- a. Procurement and instalment of medical equipment
- b. Training for operating of medical equipments
- c. Training for maintenance of medical equipment and hospital system development

9. Outputs

Support Indonesian Army to help the effects of natural disasters, evacuation and providing humanitarian assistance

10. Outcomes

- a. Optimized effectiveness hospital services
- b. Improving hospital quality
- c. Improving public welfare

11. Development Agenda of the National Development in RPJMN 2020-2024

Stable political, legal, and security affairs, and transformation of public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 49,540,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 49,540,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 49,540,000	

-
- 1. **Project Title** : Procurement of Medical Equipment for Military Health Center
 - 2. **Program Title** : Health Services Improvement Program
 - 3. **Executing Agency** : Ministry of Defense
 - 4. **Implementing Agency** : a. Ministry of Defense
b. Armed Forces Headquarters
 - 5. **Duration** : 24 month
 - 6. **Location** : Health Center of the Indonesia Armed Forces
-

7. Objectives

To improve health care services and to upgrade medical equipment and supporting facilities for Health Center of Indonesia Armed Forces

8. Scope of Works

- a. Procurement and instalment of medical equipment
- b. Training for operating of medical equipments
- c. Training for maintenance of medical equipment and hospital system development

9. Outputs

Procurement medical equipments and supporting facilities for Healt Center of Indonesia Armed Forces

10. Outcomes

Improving health care services in Health Center of Indonesia Armed Forces

11. Development Agenda of the National Development in RPJMN 2020-2024

Stable political, legal, and security affairs, and transformation of public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding <li style="padding-left: 20px;">- Loan : US\$ 5,980,000 <li style="padding-left: 20px;">- Grant : US\$ 0 <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 5,980,000 	<ul style="list-style-type: none"> • Counterpart Funding <li style="padding-left: 20px;">- Central Government : US\$ 0 <li style="padding-left: 20px;">- Regional Government : US\$ 0 <li style="padding-left: 20px;">- State-Owned Enterprise : US\$ 0 <li style="padding-left: 20px;">- Others : US\$ 0 <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 0
TOTAL : US\$ 5,980,000	

**Improvement of National
Capability for Science and
Technology Adaption and
Innovation Creation Program**

National Research and Innovation Agency (BRIN)

-
- | | |
|------------------------|--|
| 1. Project Title | : Acquisition of Indonesian Biodiversity as Fundamental Sources for Research and Innovation |
| 2. Program Title | : Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program |
| 3. Executing Agency | : National Research and Innovation Agency |
| 4. Implementing Agency | : Reserch Organization for Life Sciences, National Research and Innovation Agency |
| 5. Duration | : 60 months |
| 6. Location | : 25 field station candidates in Indoenesia and West Java Province |
-

7. Objectives

- To increase the production of biodiversity-based innovation through bioprospecting
- To establish and develop 25 field stations for biodiversity surveillance and assessment
- To establish National Biodiversity Database/Biobank which consists of specimen collection (terrestrial, marine, and freshwater) as well as digital collection (taxonomy data, genom/DNA/protein, imaging, targeted metabolites)
- To improve Indonesian human capability in utilizing Biobank for economic development.

8. Scope of Works

- Bioprospecting Indonesian biodiversity
- Biodiversity surveillance and assessment of wildlife, endangered and threatened species
- Establishment and development of field stations for long-term ecological study and climate change effect to biodiversity
- Biodiversity data mobilization
- Capacity building on indonesian human resources
- Community empowerment

9. Outputs

- Biological resources for health and medicine solution, food and nutrition, renewable energy, and agricultural support
- Indonesia's biodiversity information, includes:
 - 100,000 number of Whole Genome Sequencing (WGS)/ partial genome sequence/ Deoxyribose Nucleic Acid (DNA) barcode/ protein sequence per year
 - 1 number of extract and compounds library from microbes, plants and animals' sources (capacity up to 5 million compounds or extract)
- 25 field stations are established and field data series on the research stations are collected
- A national standardized protocols of long-term ecological and biodiversity collection
- A set of national databases on ecosystem and biodiversity which globally accessible
- Number of staffs trained for biodiversity research and management
- 20 blue/green innovation village are established

10. Outcomes

- Acquisition of genetic information data and its derivatives from Indonesia's original biological assets based on the latest technology

- b. Critical role in the evolution of ecology and biodiversity science to a new collaborative and synthetic paradigm that will advance large-scale, mechanism understanding of biodiversity and coupled ecological and human systems, across multiple spatial and temporal scales
- c. Early warning system on the status of biodiversity, ecosystem services, and instruments for effective policy, management, and conservation actions
- d. Sustainable use of biodiversity and ecosystem service to improve social-economic development
- e. Strong critical mass of human resources and infrastructure for ecosystem and biodiversity management and conservation
- f. Capacity building in managing preservation, digitalization, and data mobilization, and collection of biodiversity
- g. Increased community capacity in managing biodiversity in a sustainable way

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Increasing quality and competitive human resources
- b. Strengthening the environment and improving resilience against natural disasters and climate change

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 51,369,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 51,369,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 51,369,000	

**Food Transformation and
Agricultural Value
Added Program**

Ministry of Agriculture

1. Project Title	: Dry Land Agriculture Development Project
2. Program Title	: Food Transformation and Agricultural Value Added Program
3. Executing Agency	: Ministry of Agriculture
4. Implementing Agency	: a. Agricultural Agency of Research and Development b. Directorate General of Agricultural Infrastructure and Facilities c. Directorate General of Horticulture
5. Duration	: 60 months
6. Location	: North Sumatera, Lampung, Central Java, West Java, North Sulawesi, and East Nusa Tenggara Provinces

7. Objectives

- a. Developing dryland farming models with export-oriented horticultural commodities integrated with livestock adopting advanced cultivation and post-harvest and value added technologies that could increase productivity, value-added products, and marketing supply chains,
- b. Developing precision agricultural irrigation infrastructure and conservation techniques on dry land to support the successful development of location-specific and commodity-specific dryland agriculture
- c. Developing post-harvest management and value added infrastructure and marketing of export-oriented horticultural products.
- d. Developing institutional capital, markets, cooperatives, and enhancing, the ability of farmers based on corporations, and ensuring the supply chain of horticultural commodity marketing.
- e. Making recommendations and synthesizing dryland investment policies modelling policies to determine the direction and strategy of dryland development

8. Scope of Works

- a. Preparation of the grand design model of modern dryland agriculture
- b. Development of precision agricultural irrigation infrastructure and conservation techniques
- c. Development of postharvest management and value added infrastructure and marketing of export-oriented horticultural products
- d. Strengthening of horticultural farmer institutions through corporation model based on information technology, and optimizing horticultural commodity supply chain marketing.

9. Outputs

- a. The availability of dry land agriculture model with export-oriented horticultural commodities integrated with livestock adopts advanced cultivation and post-harvest technology that can increase productivity, value added products, and marketing supply chains.
- b. The availability of precision agricultural irrigation infrastructure and conservation techniques on dry land to support the successful development of location-specific and commodity-specific dry land agriculture
- c. The availability of postharvest management and value-added infrastructure and marketing of export-oriented horticultural products.

- d. The availability of institutional capital, markets, cooperatives, and improvement, the ability of coordinator-based farmers, as well as guaranteeing the supply chain of horticultural commodity marketing
- e. Recommendations and synthesis of dryland investment policies modelling to determine the direction and strategy of dryland development.

10. Outcomes

- a. The implementation of dryland farming models with export-oriented horticultural commodities integrated with livestock adopts advanced cultivation and post-harvest technology that can increase productivity, product value added, and marketing supply chains,
- b. The utilization of precision agricultural irrigation infrastructure and conservation techniques on dry land to support the successful development of location-specific and commodity-specific dry land agriculture
- c. The utilization of postharvest management and value-added infrastructure and marketing of export-oriented horticultural products
- d. The strengthening of farmers institutional through corporation model , and guaranteeing the supply chain of horticultural commodity marketing
- e. The recommendations and synthesis of dryland investment policies modelling to determine the direction and strategy of dryland development.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Developing areas to Reduce Inequality
- c. Increasing Quality of Human Resources and Competitiveness
- d. Strengthening infrastructure to support basic economic development and services
- e. Building the environment, enhancing disaster resilience and climate change

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 125,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 35,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 125,000,000	<hr/> Subtotal : US\$ 35,000,000
TOTAL : US\$ 160,000,000	

-
1. **Project Title** : **Climate Resilient and Low Carbon Agricultural Development in Indonesia**
 2. **Program Title** : Food Transformation and Agricultural Value Added Program
 3. **Executing Agency** : Ministry of Agriculture
 4. **Implementing Agency** :
 - a. Directorate General of Agricultural Infrastructure and Facilities
 - b. Directorate General of Livestock and Animal Health
 - c. Agency for Extension and Development of Agricultural Human Resources
 - d. Directorate General of Estate Crops
 - e. Directorate General of Food Crops
 5. **Duration** : 60 months
 6. **Location** : National
-

7. Objectives

Enhancing agriculture resilience from climate change and developing low carbon agriculture to ensure agriculture activity due to the impact of climate change. This program also in order to support COP 23 agreement achievement, where the adaptation in agriculture due to climate change can be beneficiary for the climate change mitigation effort (co-benefit).

8. Scope of Works

- a. Developing agriculture infrastructure;
- b. Scaling up proven climate resilience and low carbon agriculture technology;
- c. Strengthening agriculture institutions and
- d. Project Management

9. Outputs

- a. Physical and data of agricultural infrastructure for farmer empowerment
- b. Demfarm of climate-resilient and low carbon agricultural technologies (biochar pyrolysis facilities)
- c. Strengthened farmer groups, extension workers, decision-makers, and stakeholders who get better insight on climate-resilient and low-carbon agricultural technologies
- d. Policies and regulations supporting the implementation of climate-resilient and low-carbon agriculture
- e. Well-organized and recognized the project implementation

10. Outcomes

- a. Increased production and productivity of agricultural commodities (food crops, horticultural crops, estate crops, livestock) and human resources capacity to strengthen food security
- b. Increased incomes of farming families through business diversification and circular agriculture as well as climate change conditions
- c. Strengthened data of infrastructure for facilitating farmer empowerment

- d. Strengthened the resilience of agricultural commodities and farmers to climate change impact
- e. Adoption of climate-resilient and low carbon agriculture technologies on 500,000 ha agricultural land
- f. Reduction of GHG emissions from selected commodities by 10 million ton CO2e
- g. Efficient and effective funding utilization for resilient agricultural development.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Strengthening the environment and improving resilience against natural disasters and climate change

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 500,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 170,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 500,000,000	<hr/> Subtotal : US\$ 170,000,000
TOTAL : US\$ 670,000,000	

Village Development Program

**Ministry of Village, Development
of Disadvantaged Regions and
Transmigration**

-
- | | |
|-------------------------------|---|
| 1. Project Title | : Enhancing BUM Desa Capacity and Infrastructure for The Digitalization of Villages Economic |
| 2. Program Title | : Village Development Program |
| 3. Executing Agency | : Ministry of Village, Development of Disadvantaged Regions and Transmigration |
| 4. Implementing Agency | : Directorate General of Development and Village Community Empowerment |
| 5. Duration | : 48 months |
| 6. Location | : Nationwide |
-

7. Objectives

- a. To strengthen of BUM Desa/BUM Desa Bersama digitally;
- b. To enhance the capacity of BUM Desa/BUM Desa Bersama in developing sustainable village economic activities;
- c. To improve the connectivity of village economy with regional and global market using digital platform.

8. Scope of Works

- a. Strengthening the capacity of BUM Desa/ BUM Desa Bersama in the form of information technology infrastructure and system, which includes:
 - i. Data center (including mechanical and electrical system).
 - ii. Network system
 - iii. Server and storage system.
 - iv. Application systems for registration, accreditation, and reporting.
 - v. Application to provide services and facilitation to strengthen BUM Desa/BUM Desa Bersama.
 - vi. Digital modules for BUM Desa/BUM Desa Bersama capacity building.
 - vii. Knowledge management system of BUM Desa/BUM Desa Bersama.
- b. Developing a model for the strengthening of BUM Desa/ BUM Desa Bersama through:
 - i. Provision of facilities and production equipment to increase value-added.
 - ii. Business incubators assistance in supply chain management, quality improvement, productivity, and market access.
- c. Improving the capacity of the stakeholders through knowledge dissemination, training, comparative studies, and workshops.

9. Outputs

- a. Establishment of information technology system and infrastructure.
- b. Assessment of capacity building and business development for BUM Desa/BUM Desa Bersama.
- c. Availability of facilities and production equipment to increase value-added.
- d. Delivery of assistance in the form of business incubators in supply chain management, quality improvement, productivity, and market access.
- e. Dissemination of knowledge, training, comparative studies, and workshops across all levels of government (central government, province, district, and village level).

- f. Improved products of BUM Desa/ BUM Desa Bersama that meet the international market standards.

10. Outcomes

- a. Enhanced BUM Desa/BUM Desa Bersama.
- b. Improved management capacity and business activities of BUM Desa/BUM Desa Bersama.
- c. Connected BUM Desa/BUM Desa Bersama's business activities with a digital-based economic system.
- d. Increased roles of BUM Desa/BUM Desa Bersama as an engine of the village economy.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Economic resilience for quality and equitable growth
- b. Regional development for inequality reduction
- c. Qualified and competitive human resources
- d. Infrastructure for the economy and basic services

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 76,345,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 4,272,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 76,345,000	<hr/> Subtotal : US\$ 4,272,000
TOTAL : US\$ 80,617,000	

State Apparatus Enhancement Program

**Ministry of National Development
Planning/ National Development
Planning Agency**

1. Project Title	: Strengthening Management of Apparatus Talents (SMART)
2. Program Title	: State Apparatus Enhancement Program
3. Executing Agency	: Ministry of National Development Planning/ National Development Planning Agency
4. Implementing Agency	: Ministry of National Development Planning/ National Development Planning Agency
5. Duration	: 84 months
6. Location	: Nationwide and overseas

7. Objectives

To increase the capacity of Indonesia human resources with the support of talent management system development, implementation of capacity building programs for apparatus to encourage the achievement of national development priorities

8. Scope of Works

- Strategic talent management
- State apparatus and human resources professionalization
- Capacity development of domestic education and training institutions
- Project management

9. Outputs

- Talent management system for apparatus
- Professional apparatus
- Domestic education and training institutions capacity enhancement

10. Outcomes

The availability of policies and public services to support good governance and competitiveness focusing on national development priorities

11. Development Agenda of the National Development in RPJMN 2020-2024

- Enhancing human resources quality and competitiveness
- Strengthening policies, laws, defense and security stability and public services transformation

12. Project Cost

<ul style="list-style-type: none"> Foreign Funding 	<ul style="list-style-type: none"> Counterpart Funding
- Loan : US\$ 100,000,000	- Central Government : US\$ 1,250,000
- Grant : US\$ 0	- Regional Government : US\$ 0
	- State-Owned Enterprise : US\$ 0
	- Others (RM) : US\$ 0
Subtotal : US\$ 100,000,000	Subtotal : US\$ 1,250,000
TOTAL : US\$ 101,250,000	

National Institute of Public Administration (NIPA)

2. Project Title	: Transformation of State Apparatus Competency Development
3. Program Title	: State Apparatus Enhancement Program
4. Executing Agency	: National Institute of Public Administration (NIPA)
5. Implementing Agency	: National Institute of Public Administration (NIPA)
6. Duration	: 60 months
7. Location	: Scattered locations in Indonesia

8. Objectives

Transformation of competency development of state civil apparatus (Bangkom) in strengthening capacity building to be in line with the needs and priority agendas of national and regional development.

9. Scope of Works

- a. Smart Program: series of activities that support the transformation of the training paradigm into a learning paradigm in the K/L/P environment. Including the provision of learning needs data with the support of artificial intelligence (AI) technology based on the results of continuous competency needs analysis, and the provision of learning modules (e-modules) interactive for central and regional Apparatus.
- b. Smart Campus (Learning Hub): Provision of modern learning facilities for skill improvement. The Smart campus concept with the support of digital technology (building automatic system- BAS) will support the implementation of synchronous learning, especially those related to skill improvement (example: character reinforcement in LATSAR).
- c. Smart Technology: Development of technology (software) and provision of hardware, and security protection systems (cyber security) to support the provision of the results of the analysis of continuous learning needs, the implementation of a data-based integrated learning process, and the implementation of interactive learning with references to the 10:20:70 learning method and the learning value chain (LVC) method.
- d. Smart Employee: Provide opportunities for selected Apparatus in the K/L/P environment to be able to develop competencies through non-degree programs and certifications. The provision of non-degree programs and certifications is in line with the competency needs of partner agencies/ local governments in order to support national development/ regional excellence.

10. Outputs

- a. Smart Program 1.1:
 - i. Artificial data intelligence for competency development (including national HCDP and apparatus competency needs analysis)
 - Learning content up to 300 learning according to national/regional/sector/presidential priority needs)
 - Implementation of integrated learning Schemes in 50 local governments
 - ii. Public service laboratories in 50 local governments
 - iii. Thematic RB laboratory at 50 K/L/D
- b. Smart campus (Learning Hub):

- i. Smart campus in Banjarbaru-Kalimantan as a learning hub supporting IKN
- ii. Smart classes at NIPA Puslatbang in Aceh, Jatinangor and Makasar (Samarinda)
- iii. Smart learning laboratory for vocational education in the state administration profession
- iv. Digital co-working Space at NIPA headquarters
- c. Smart Technology:
 - i. Smart application development (AI-based)
 - ii. Application according to the needs of the national bangkom
 - iii. Provision of technology devices and security systems to support the implementation of integrated bangkom and digital-based interactive learning
- d. Smart Employee:
 - i. 7,000 Apparatus include but are not limited to the following functional positions: Policy analyst and Bangkom analyst
 - ii. 1,000 widyaiswara received training and certification for strengthening technology competencies and facilitators of digital literacy education and training and the new adult learning method (NALM)
 - iii. 30 NIPA human resources have technological competence in the development of ISD

11. Outcomes

Implementation of apparatus HR competency development in an integrated manner with a reliable database to realize quality, targeted and innovative public services in accordance with national development programs and regional potential / excellence

12. Development Agenda of the National Development in RPJMN 2020-2024

- a. Increasing the quality of human resources and competitiveness
- b. Strengthening political, legal, defense, and security stability and transformation of public services.

13. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 140,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 7,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 140,000,000	<hr/> Subtotal : US\$ 7,000,000
TOTAL : US\$ 147,000,000	

Vocational Training Enhancement Program

Ministry of Manpower

1. Project Title	: Development of Vocational Training Centers
2. Program Title	: Vocational Training Enhancement Program
3. Executing Agency	: Ministry of Manpower
4. Implementing Agency	: Directorate General of Training and Productivity
5. Duration	: 48 months
6. Location	: BLK Batam, Riau Island Province

7. Objectives

To prepare skilled and competent workforce

8. Scope of Works

- a. Development of training programs and curricula
- b. Procurement of training equipment
- c. Construction of workshop building infrastructure
- d. Training of Trainers (ToT)
- e. Development of governance/training management

9. Outputs

- a. Availability of training programs, curricula, and technical assistance for automotive, electrical, metal, wood-glass fiber, welding, tourism, and digitalized e-education.
- b. Availability of training equipments for any training program.
- c. Establishment of workshop buildings for any training program.
- d. Implementation of Training of Trainer (ToT) for any training program.
- e. Preparation of the equipment procurement evaluation report, building construction evaluation report, instructor training evaluation report, and program development evaluation report, module and management training.

10. Outcomes

- a. Improving training quality
- b. Increasing qualified and competence workers
- c. Increasing the competitiveness of Indonesia's human resources
- d. Decreasing the unemployment rate
- e. Improving socio-economic

11. Development Agenda of the National Development in RPJMN 2020-2024

Upgrading human resource qualification and competitiveness

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	14,800,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others (RM)	: US\$	0
Subtotal	: US\$	14,800,000	Subtotal	: US\$	0
TOTAL	: US\$	14,800,000			

-
1. **Project Title** : **Labor Market Information and Skills System Transformation for Labor Market Flexibility (LISTRAF)**
 2. **Program Title** : Vocational Training Enhancement Program
 3. **Executing Agency** : Ministry of Manpower
 4. **Implementing Agency** :
 - a. General Secretariat
 - b. Directorate General of Manpower Placement Development and Employment Opportunity Expansion
 - c. Directorate General of Vocational and Productivity Training Development
 - d. Employment Planning and Development Agency
 5. **Duration** : 36 months
 6. **Location** : Nationwide
-

7. Objectives

To increase the employment of the Indonesian workforce through improving the performance of the labor market information system

8. Scope of Works

- a. Strengthening the quality of the labor market information system.
- b. Increasing access to labor market information services, especially for vulnerable workers and in 3T regions (frontier, outermost, lagging).
- c. Improvement of a responsive, relevant and data-driven job training system.

9. Outputs

- a. Availability of a reliable information system.
- b. Availability of a labor market information system that can be accessed by all Indonesian people, especially vulnerable workers and 3T regions (frontier, outermost, lagging).
- c. Availability of a responsive, relevant, and data-based job training system.
- d. Availability of a trialed work intermediation model.
- e. Availability of staff in regional work units who undertake trainings and are certified to provide face-to-face employment counseling services (approximately 1000 staff trained).
- f. Availability of employment agencies or entities at both central and regional levels that use the new modality of introduction/work intermediation (approximately 50 units are part of the new modality for work intermediation piloting).

10. Outcomes

- a. Labor market service quality index of 75
 - b. The index of utilization of data and information on the supply and demand of labor in real time is 75 out of a scale of 100
 - c. The number of workers facilitated by labor market services is 2,200,000 people per year
 - d. The number of users of labor market services are companies and job seekers who access labor market information services as much as 2,200,000 people per year
 - e. The number of job seekers receiving face-to-face counseling services
 - f. The number of job seekers who received counseling services and found employment
-

- g. The number of job seekers placed on average is 283,333 people per year
- h. The average number of trained job seekers is 366,667 people per year
- i. The average number of workers participating in the apprenticeship is 76,677 people per year
- j. The percentage of workers who are certified and work according to the competency certificate on average 20% per year

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Upgrading human resource qualification and competitiveness

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 150,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others (RM) : US\$ 0
<hr/> Subtotal : US\$ 150,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 150,000,000	

Geospatial Information Management Program

Ministry of Agrarian and Spatial Planning/ National Land Agency

1. Project Title	: Integrated Land Administration, Spatial Planning and Provision of Large-Scale Base Map Project
2. Program Title	: Geospatial Information Management Program
3. Executing Agency	: Ministry of Agrarian and Spatial Planning/ National Land Agency
4. Implementing Agency	: a. Ministry of Agrarian and Spatial Planning/ National Land Agency b. Geospatial Information Agency (BIG)
5. Duration	: 60 months
6. Location	: All Indonesia Province

7. Objectives

Provision of large-scale base maps, quality and integrated land and spatial information that can be utilized by all stakeholders to support good land and spatial governance and the realization of the sustainable development goals.

8. Scope of Works

- a. Component 1: Integrated of land administration and spatial planning,
- b. Component 2: Digital transformation of land and space
- c. Component 3: Provision of large-scale base maps
- d. Component 4: Project management and institutional strengthening

9. Outputs

- a. Base map (unit: square kilometers)
- b. Land plot map (unit: plot/hectare)
- c. Certificate of land rights (unit: area)
- d. Electronic services (unit: service)
- e. Map of land value zone (ZNT) (unit: hectare)
- f. Value map of land parcels (unit: hectare)
- g. Detailed spatial planning (RDTR) (unit: technical material and substance approval)

10. Outcomes

- a. Utilization of integrated land and spatial planning information for various sustainable development interests.
- b. Accelerating Indonesia's one map and one data policy through effective and efficient management of land and space geospatial data and meeting the needs of various stakeholders in making spatial-based decisions, which can support the achievement of sustainable development for shared prosperity and justice.
- c. Increasing the ease of investment in Indonesia will simultaneously open up employment opportunities, increase economic growth and improve the quality of people's welfare.
- d. Availability of land fiscal policy instruments that support increasing land productivity and natural resource management, increasing PAD and non-tax state revenue (PNBP) originating from land and spatial planning services, reducing land transaction costs, as well as a transparent and controlled land market.

- e. Reducing land disputes and inequality in land tenure which is expected to have an impact on reducing income inequality and in the long run will reduce potential social and economic costs.
- f. Realization of land parcels that are arranged at the project location in accordance with their functions and carrying capacity, through the arrangement of land ownership assets and other supporting facilities, which also has an impact on increasing the value of land at the said location.
- g. Increasing per capita income of program beneficiary communities, thus contributing to efforts to reduce poverty which will have an impact on improving the quality of human resources.
- h. Realization of the implementation of spatial planning that is just, safe, comfortable, productive and environmentally sustainable which accommodates the interests of development and investment, environmental preservation, disaster mitigation and climate adaptation that are synchronized from the national, provincial, district/city and sub-district levels

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Developing regions for reducing disparity and ensuring equality
- c. Improve quality and competitive human resources
- d. Mental revolution and cultural development
- e. Strengthening infrastructure to support economic development and basic services
- f. Building the environment, enhancing disaster resilience and climate change.
- g. Strengthening political, legal, as well as national defense and security stability and public services transformation

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 868,330,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding -Central Government : US\$ 0 -Regional Government : US\$ 0 -State-Owned Enterprise : US\$ 0 -Others (RM) : US\$ 0
<hr/> Subtotal : US\$ 868,330,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 868,330,000	

**Security and Safety
Program in Indonesian
Waters and Indonesian
Jurisdictions**

Indonesia Coast Guard (BAKAMLA RI)

1. Project Title	: National Maritime Security System
2. Program Title	: Security and Safety Program in Indonesian Waters and Indonesian Jurisdictions
3. Executing Agency	: Indonesia Coast Guard (BAKAMLA RI)
4. Implementing Agency	: Indonesia Coast Guard (BAKAMLA RI)
5. Duration	: 60 months
6. Location	: Indonesia

7. Objectives

- a. To integrate the national maritime early warning system among related maritime security stakeholders;
- b. To strengthen coordination among related maritime security stakeholders;
- c. To enhance the efficiency and effectiveness of law enforcement in Indonesian Waters and Indonesian Jurisdictions.

8. Scope of Works

- a. Site assessment and system design
- b. Implementation and testing
- c. Training
- d. Project reporting and documentation
- e. Maintenance and support

9. Outputs

- a. 1 package of primary command and control center
- b. 1 package of back up command and control center
- c. 1 package of data protection system (disaster recovery)
- d. 35 packages of coastal stations
- e. 1 package of vessel command center

10. Outcomes

- a. Decrease number of violations of law within Indonesian waters and Indonesian Jurisdictions
- b. Decrease number of vessel accidents within Indonesian waters and Indonesian Jurisdictions
- c. Shorten relay time of valid information regarding violations of law/accidents at sea to closest related maritime security stakeholder's vessel
- d. Shorten response time of closest related maritime security stakeholder's vessel to conduct law enforcement.

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening the stability of political, legal, defense, security and transforming in public services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 180,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others (RM) : US\$ 0
Subtotal : US\$ 180,000,000	Subtotal : US\$ 0
TOTAL : US\$ 180,000,000	

**Strengthening the
Capacity of Meteorology,
Climatology, and
Geophysics Program**

**The Agency For Meteorology
Climatology And Geophysics
(BMKG)**

1. Project Title	: Strengthening Flight Information Region and Development of Aviation Meteorology Services in Eastern Indonesia
2. Program Title	: Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program
3. Executing Agency	: Meteorology Climatology And Geophysics Agency (BMKG)
4. Implementing Agency	: Meteorology Climatology And Geophysics Agency (BMKG)
5. Duration	: 36 months
6. Location	: Nationwide

7. Objectives

To strengthen flight information region (FIR) and to develop aviation meteorological services especially in eastern Indonesia, for the sake of safety and security in aviation operations, as well as modernization of the ability to observe and forecast volcanic ash in order to prevent accidents and to reduce the impact of volcanic eruptions towards the national economy.

8. Scope of Works

- a. Automated weather observing system (AWOS) for 6 airports in Indonesia
- b. X-Band windshear weather radar as TDWR for 7 airports in Indonesia
- c. Windshear wind LIDAR for 7 airports in Indonesia
- d. LIDAR volcanic Ash 3D for 5 airports in Indonesia
- e. National integration system
- f. National volcanic ash advisory system
- g. Capacity building:

9. Outputs

- a. Increasing the capacity of weather observations at several airports, especially in strengthening the FIR of Indonesia and eastern Indonesia.
 - i. Installation of AWOS Category III at six (6) airports, urban air quality monitoring systems and networks.
- b. Construction of the X-band weather radar doppler terminal which is equipped with a windshear warning feature on 7 (seven) aerodromes to close the radar network.
 - i. Composite image of real-time radar data.
 - ii. Windshear warning feature.
 - iii. Supports local integration of aviation equipment.
- c. The construction of the LIDAR windshear that is tailored to the needs of each airport with integrated automatic warning software, this system will be integrated with the instruments mentioned in point b if installed at the same airport location
 - i. Windshear systems based on modern LIDAR technology at seven (7) airports.
 - ii. Terminal Doppler Weather based weather radar windshear warnings are integrated into the AWOS system.
- d. Construction of volcanic ash lidar 3D on five (5) airports.
- e. Development of the national volcanic ash advisory system for predicting and warning of the presence of volcanic ash in the atmosphere for the needs of air operators and users.
- f. Development of a national integration system to monitor meteorological observation networks nationally and locally at each airports.

- i. Monitoring aviation meteorological observation networks.
 - ii. AWOS integration and Remote data from head office / regional.
 - iii. Local integration of aviation meteorological instruments on seven (7) airport for monitoring and maintenance efficiency.
- g. Enhancing BMKG's ability to operate and maintain the system in the long run by conducting qualified staff training and at the same time increasing BMKG's ability to work at an international level

10. Outcomes

- a. The creation of safe, efficient and regular flights throughout the territory of the Republic of Indonesia.
- b. The realization of air transportation that supports the national development program and supports the progress of the national economic program.
- c. The realization of equality and social justice in the entire territory of the Republic of Indonesia.
- d. Indonesia has full authority over aviation meteorological services in the area of the country and has the capacity as a country recognized by international civil aviation organizations and the world meteorological organizations.

11. Development Agenda of the National Development in RPJMN 2020-2024

Developing the environment, enhancing disaster resilience and climate change

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 26,617,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others (RM) : US\$ 0
<hr/> Subtotal : US\$ 26,617,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 26,617,000	

1. Project Title	: Enhancing National Climate And Air Quality Services
2. Program Title	: Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program
3. Executing Agency	: Meteorology Climatology And Geophysics Agency (BMKG)
4. Implementing Agency	: Meteorology Climatology And Geophysics Agency (BMKG)
5. Duration	: 36 months
6. Location	: Headquarter of BMKG UPT BMKG Remote Station

7. Objectives

To strengthen climate information and air quality services, including the observation system improvement, instrument calibration system, data and information processing system, and dissemination information system that meet stakeholders expectation (Government, Private Sector and Public Community).

8. Scope of Works

The strengthening program of climate and air quality information service consists of 4 components. These components describe the implementation strategy to achieve the expected goals. Each component is supported by the following subcomponents:

- a. Component 1: Strengthening the climate observation system and air quality. This component has 5 (five) sub-components, namely:
 - i. Rehabilitation and expansion of the climate observation network
 - ii. Rehabilitation and expansion of urban air quality monitoring networks
 - iii. Strengthening the observation of GAW Stations of Palu and Sorong
 - iv. Strengthening of Climate and Air Quality Laboratory of UPT Climatology
 - v. Strengthening the BMKG Air Quality Testing Laboratory
- b. Component 2: Strengthening the system of calibration, communication and data integration. This component has 4 (four) sub-components, namely:
 - i. Procurement of ASRS Calibration equipment
 - ii. Procurement of AWS standard traveling equipment
 - iii. Development of climate and air quality repository data at the Central and regional levels
 - iv. Strengthening data integration systems: UPT Climatology and Database Center
- c. Component 3: Sstrengthening data processing and dissemination systems. This component has 4 (four) sub-components, namely: :
 - i. Strengthening data processing systems
 - ii. Strengthening of climate analysis and prediction systems
 - iii. Strengthening the climate projection system
 - iv. Strengthening information dissemination system
- d. Component 4: Strengthening human climate and air quality. This component has 3 (three) sub-components, namely:
 - i. Development of Climate Knowledge Management
 - ii. Training and learning assignments in the field of climatology and air Quality
 - iii. Innovation development to support the operation of climate services and air quality.

9. Outputs

- a. Climate observation system and networks in the province of food granaries

- b. Urban air quality monitoring systems and networks.
- c. ASRS and AWS Calibration Systems
- d. HPC to carry out climate analysis and prediction, air quality and climate projections
- e. Processing and Dissemination System for climate information and air quality based on technology 4.0 and 5.0.
- f. Competent and professional human resources in climatology and air quality fields.

10. Outcomes

- a. Climate information and air quality services that are fast, accurate and according standard WMO.
- b. Climate information and air quality those are qualified to support food security, water resilience, renewable energy and disaster risk reduction.

11. Development Agenda of the National Development in RPJMN 2020-2024

Developing the environment, enhancing disaster resilience and climate change.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 50,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others (RM) : US\$ 0
<hr/> Subtotal : US\$ 50,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 50,000,000	

-
1. **Project Title** : **Enhancement of Indonesian Weather Radar Network for Extreme Weather Warning Capabilities**
 2. **Program Title** : Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program
 3. **Executing Agency** : Meteorology Climatology And Geophysics Agency (BMKG)
 4. **Implementing Agency** : Deputy of Meteorology
 5. **Duration** : 36 months
 6. **Location** : DKI Jakarta Province, Tangerang, Banten Province, Sidoarjo, East Java Province, Aceh Besar, Aceh Province, Cilacap, Central Java Province, Buru, Maluku Province, Berau, East Kalimantan Province, Banggai, Tolitoli, and Poso; Central Sulawesi Province, Halmahera Selatan, North Maluku Province, Maluku Tengah, Maluku Province, Fakfak, West Papua Province, Boven Digoel, Papua Province
-

7. Objectives

Building a Weather Radar to meet the needs of radar data to complement the early warning system in Indonesia, including replacement to the existing Weather Radar due to the device has operated more than 12 years. Through this activity, it is expected to meet the need for better quality of weather radar data to increase the accuracy, coverage and speed of weather early warning throughout Indonesia regions

8. Scope of Works

- a. Weather radar procurement and installation
- b. Procurement of weather radar data integration system and extreme weather warning

9. Outputs

- a. Weather Radar Data in an international standard format
- b. National composite weather radar information and convenient access
- c. Weather early warning information system.

10. Outcomes

- a. Increasing the density and coverage of weather radar network in Indonesia
- b. Enhanced capacity and quality of weather early warning
- c. Timely, accurate and easy to access weather early warning information.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening the infrastructure for supporting economic development and basic needs
- b. Building living environment, increasing disaster resilience and climate change.

12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	34,000,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others (RM)	: US\$	0
Subtotal	: US\$	34,000,000	Subtotal	: US\$	0
TOTAL	: US\$	34,000,000			

Enhancement of Search and Rescue Facility Program

National Search and Rescue Agency (BASARNAS)

1. Project Title	: Procurement of Search and Rescue Helicopter Medium Class and Procurement of Rigid Buoyancy Boat
2. Program Title	: Enhancement of Search and Rescue Facility Program
3. Executing Agency	: National Search and Rescue Agency (BASARNAS)
4. Implementing Agency	: National Search and Rescue Agency (BASARNAS)
5. Duration	: 24 months
6. Location	: DKI Jakarta Province

7. Objectives

- a. Procurement of Search and Rescue Helicopter Medium Class. To support search and rescue operations, the helicopters have the ability to:
 - i. Fly over rough terrains, mountainous and high-altitude areas, and vast water areas;
 - ii. Transport personnel and limited search and rescue equipment;
 - iii. Conduct medical evacuation;
 - iv. Conduct visual and electronic search;
 - v. Perform helicopter rescue techniques; and
 - vi. Accelerate response time in search and rescue operation.
- b. Procurement of Basarnas Rigid Buoyancy Boat. To fulfill the need for water search and rescue facilities in the form of a 12-meter Rigid Buoyancy Boat to support the implementation of SAR operations that have the ability to:
 - i. Reach areas that are difficult to reach by other water facilities.
 - ii. Move and carry out search and rescue operations move at high speed;
 - iii. Has excellent buoyancy, so it cannot sink;
 - iv. Transporting personnel;
 - v. Implementing Medevac in the territorial waters;
 - vi. Carry out search and rescue of water areas; and
 - vii. Accelerate response time in search and rescue operation.

8. Scope of Works

- a. Procurement of Search and Rescue Helicopter Medium Class, including:
 - i. Procurement of 3 (three) medium class search and rescue helicopters including maintenance support and spare parts provision.
 - ii. Training to improve capabilities in aircraft operation and maintenance, as follows: pilot type rating, airframe mechanic, engine technician, and avionics technician.
- b. Procurement of BASARNAS Rigid Buoyancy Boat covering procurement of 74 (seventy four) units of Rigid Buoyancy Boat, along with OBM, communication equipment and other equipment.

9. Outputs

- a. Procurement of Search and Rescue Helicopter Medium Class;
 - i. Availability of 3 (three) helicopters that capable of supporting search and rescue activities
 - ii. The availability of reliable helicopter crew; and

- b. Procurement of BASARNAS Rigid Buoyancy Boat; Availability of 74 (seventy four) units of 12 meter Rigid Buoyancy Boat as a development version of the Class I Rigid Inflatable Boat.

10. Outcomes

- a. Improvement the reliability of BASARNAS air search and rescue facilities;
- b. Extending the range of search and rescue operations;
- c. Improvement of the ability of BASARNAS in search and rescue operations.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic and basic services development;
- b. Strengthening the environment and improving resilience against natural disasters and climate change.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 93,744,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 16,543,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0
<hr/> Subtotal : US\$ 93,744,000	<hr/> Subtotal : US\$ 16,543,000
TOTAL : US\$ 110,287,000	

Ministry of Home Affairs

1. Project Title	: Improving Public Resilience of Fire Risk Through the Development of Regional Firefighting Infrastructure & Human Resources
2. Program Title	: Enhancement of Search and Rescue Facility Program
3. Executing Agency	: Ministry of Home Affairs
4. Implementing Agency	: Directorate General of Regional Administration, Ministry of Home Affairs
5. Duration	: 36 months
6. Location	: North Sumatera Province, West Java Province, DIY Province, Bali Province, East Kalimantan Province, and South Sulawesi Province

7. Objectives

The project development objective is providing a rapid response support system (SFF AS, Satellite Fire and First Aid Station) for the initial handling of fires in vulnerable, highly populated, and low access areas in six cities/districts in Indonesia. As fire accidents must be managed effectively in a timely manner, fast response depends on infrastructure for firefighters in minimizing the average response time to less than 6-8 minutes. During the critical early minutes, firefighters can remarkably prevent the risk of property loss and damage, provide first aid to the victims, and minimize the environmental pollution.

8. Scope of Works

- a. Establishment of a regional fire safety strategy including the introduction of SFFAS technology to the fire safety department and local communities in project areas.
- b. Deployment of 96 SFFAS facilities and equipment in strategic locations and improvement of fire management strategies in project areas.
- c. Capacity building and training of firefighters and volunteers by instructors for SFFAS operation.

9. Outputs

- a. Enhancing the average response time to less than 6-8 minutes.
- b. Expanding the use of effective, responsive, and environmentally friendly SFFAS fire suppression technology.
- c. Involve community volunteers as part of the firefighting ecosystem.
- d. Increased competence of volunteers and firefighters in utilizing SFFAS.

10. Outcomes

- a. Reducing the number of fatalities due to fires in the project operation area.
- b. Reducing the number of victims of physical injuries/trauma/social impacts due to fires in the project operation area.
- c. Reducing property losses due to fire in the project operation area.
- d. Setting-up pilots of best practice benchmarks for firefighting response time as part of the Minimum Service Standard (SPM) in the project operation area.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Developing regions to reduce inequality and to ensure equality
- b. Increasing the quality and competitiveness of human resources
- c. Strengthening infrastructure to support economic development and basic services

12. Project Cost*

<ul style="list-style-type: none">• Foreign Funding- Loan : US\$ 32,509,000- Grant : US\$ 0<hr/>Subtotal : US\$ 32,509,000	<ul style="list-style-type: none">• Counterpart Funding- Central Government : US\$ 0- Regional Government : US\$ 0- State-Owned Enterprise : US\$ 0- Others : US\$ 0<hr/>Subtotal : US\$ 0
TOTAL : US\$ 32,509,000	

*notes: must be equivalent to EUR 30.000.000

Counter Terrorism Program

National Counter Terrorism Agency (BNPT)

1. Project Title	: Countering Terrorism and Preventing Violent Extremism
2. Program Title	: Counter Terrorism Program
3. Executing Agency	: National Counter Terrorism Agency
4. Implementing Agency	: General Secretary of National Counter Terrorism Agency
5. Duration	: 36 months
6. Location	: DKI Jakarta Province, and West Java Province

7. Objectives

Realizing the capacity building for countering terrorism will increase the readiness of national security in tackling the potential threat of radical terrorism attacks. More broadly, the achievement of the objectives of this activity can maintain the stability of national security.

8. Scope of Works

- a. Development of Crisis Analysis and Control Center in Countering Terrorism and Preventing Violent Extremism (CT-PVE) includes two aspects, namely the analysis center and the crisis control center.
- b. Strengthening the Monitoring and Early Detection System in CT-PVE.
- c. Development of training centers and cooperation in the prevention of violent extremism.

9. Outputs

- a. NCTA has an integrated information system to support counterterrorism in Indonesia.
- b. NCTA has a training and cooperation center to improve the capacity of law enforcement officers in dealing with the threat of terrorism both locally and globally.
- c. NCTA has a monitoring and early detection system in countering terrorism.

10. Outcomes

- a. Availability of a collaborative system in the formulation of an integrated counterterrorism policy;
- b. Increased capacity of human resources in countering terrorism and prevention of violent edremism;
- c. Expansion of the coverage area of monitoring and early detection of countering terrorism and prevention of violent extremism; and

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening political, legal, as well as national defense and security stability and public services transformation

12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	160,000,000	- Central Government : US\$	15,000,000
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	160,000,000	Subtotal : US\$	15,000,000
TOTAL : US\$	175,000,000		

Electricity Infrastructure Development Program

State Electricity Company (PT.PLN)

1. Project Title	: Additional Loan PLTA Asahan 3(2 x 87 MW)
2. Program Title	: Electricity Infrastructure Development Program
3. Executing Agency	: State Electricity Company (PT.PLN)
4. Implementing Agency	: State Electricity Company (PT.PLN)
5. Duration	: 50 months
6. Location	: Asahan & Toba Samosir District, North Sumatera Province

7. Objectives

The expected result is an additional supply of power to the sub-system in North Sumatera and contribution to the supply of renewable energy in the generation system in Sumatera.

8. Scope of Works

Continuation of the construction of the Asahan No.3 Hydroelectric Power Plant Construction Project with a capacity of 174 MW, 150 kV Transmission Line to related substations

9. Outputs

- a. Hydroelectric power plant run-off river type with a capacity of 174 MW
- b. Asahan 3 HEPP - Simangkok Substation 150 kV Transmission Line 59,89 kms

10. Outcomes

- a. Additional power supply to the North Sumatera Province
- b. Contributions to the fulfillment of an average demand growth of 7.9%
- c. Increased reliability in the Sumatera electricity system
- d. Decreased plant production costs in the Sumatera system
- e. Increased supply of renewable energy sources in the Sumatera generation system in 2023 by 22.3%

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 152,318,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others (RM) : US\$ 0
<hr/> Subtotal : US\$ 152,318,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 152,318,000	

1. Project Title	: Matenggeng Pumped Storage Hydro Electrical Power Plant (943 MW)
2. Program Title	: Electricity Infrastructure Development Program
3. Executing Agency	: State Electricity Company (PT.PLN)
4. Implementing Agency	: State Electricity Company (PT.PLN)
5. Duration	: 72 months
6. Location	: Cilacap Regency, Central Jawa Province Kuningan Regency, West Jawa Province

7. Objectives

The expected result is an additional supply of power to the electricity system in Java-Bali and contributing the supply of renewable energy to reach nasional target of 23% renewable energy in 2025. In addition, it can improve load factor and increase the capacity factor of coal power plant, and also can act as a flexible generation to anticipate the entry of intermittent renewable energy plants such as solar and wind power plant..

8. Scope of Works

- a. Construction of Matenggeng Pumped Storage
- b. Engineering services for construction supervision
- c. Power plant commisioning and operation.

9. Outputs

- a. Pumped storage type hydroelectric power plant with a capacity of 943 MW
- b. 500 kV transmission line consisting of 2 lines, each with a length of 28.4 kmr and 28.3 kmr
- c. Power station substation 500 kV

10. Outcomes

- a. Additional power supply to the Java-Bali electricity system
- b. Contribution to the average demand growth of 7.9%
- c. Increased supply of renewable energy sources in the Java-Bali system in 2025
- d. Improved system load factor
- e. Improvement of capacity factor for base load power plants,
- f. Flexible generation to anticipate the entry of intermittent renewable energy generators (Solar/Wind Power Plant)
- g. Increase energy storage capacity
- h. Increased reliability and stability of the Java-Bali system

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services.

12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	826,900,000	- Central Government : US\$	0
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	214,000,000
		- Others (RM) : US\$	0
Subtotal : US\$	826,900,000	Subtotal : US\$	214,000,000
TOTAL : US\$ 1,040,900,000			

1. Project Title	: Hululais Geothermal Power Plant 1&2 (2x55 MW)
2. Program Title	: Electricity Infrastructure Development Program
3. Executing Agency	: State Electricity Company (PT.PLN)
4. Implementing Agency	: State Electricity Company (PT.PLN)
5. Duration	: 36 months
6. Location	: Lebong, Rejang Lebong and Kepahiang Regency, Bengkulu Province

7. Objectives

The expected result is an additional supply of power to system in Sumatera and contribution to the supply of renewable energy in the reliability of grid system in Sumatera.

8. Scope of Works

Construction of the Hululais Geothermal Power Plant with a capacity of 110 MW, 150 kV transmission line 150, and related substations.

9. Outputs

- Geothermal power plant Flash Cycle type with a capacity of 110 MW
- PLTP Hululais - Pekalongan Substation 150 kV transmission line, 47 kms
- Extension of 150 kV Pekalongan Substation

10. Outcomes

- Additional power supply to the system in Sumatera
- Contributions to the fulfillment of an average demand growth of 7.9%
- Increased supply of renewable energy sources in the Sumatera generation system in 2024 by 34.3%

11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services.

12. Project Cost

<ul style="list-style-type: none"> Foreign Funding - Loan : US\$ 204,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 42,000,000 - Others (RM) : US\$ 0
<hr/> Subtotal : US\$ 204,000,000	<hr/> Subtotal : US\$ 42,000,000
TOTAL : US\$ 246,000,000	

Green Housing Finance Facility Program

Ministry of Public Works and Housing

1. Project Title	: Green, Affordable, and Climate-Resilient Housing Blended Finance Facility
2. Program Title	: Green Housing Finance Facility Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: 1. Directorate General of Public Works and Housing Infrastructure Financing, Ministry of Public Works and Housing 2. PT Sarana Multigriya Finansial (SMF) Persero
5. Duration	: 84 months
6. Location	: All Provinces

7. Objectives

- a. Develop a platform, structure, and capacity for blended finance to be combined with the government budget to ensure an adequate, affordable, resilient, and sustainable housing program.
- b. Provide creative and innovative financing schemes, incentives, and other financing instruments to support the provision of adequate and affordable housing that applies the principles of Green Buildings, responsive to gender, and resilient to disasters and climate change.
- c. Expand accessibility of housing finance to targeted beneficiaries which include non-fixed income or informal workers.
- d. Develop innovative housing financing schemes for rental and ownership to increase the provision of affordable housing in urban areas close to the city center.

8. Scope of Works

- a. Component 1: Green and resilient housing finance
 - i. Green and resilient housing finance facility;
 - ii. Technical assistance on green and resilient housing development;
 - iii. Operational support of the green and resilient housing finance facility.
- b. Component 2: City center housing finance
 - i. Rent-to-own finance facility;
 - ii. Staircasing home ownership finance facility;
 - iii. Operational support of the city center housing finance facility.
- c. Component 3: Informal income housing finance
 - i. Housing micro finance facility;
 - ii. Technical assistance on housing micro finance;
 - iii. Operational support of the housing micro finance facility.

9. Outputs

- a. Availability of revolving funds utilized and managed in a mixed financing platform to provide green, resilient, and affordable housing.
- b. 1,075,000 units of green, resilient, and affordable housing, which include new construction and quality improvement.

- c. Program framework for the utilizing of blended finance for green, resilient, and affordable housing, including guidelines for preparing, implementing, reporting, and monitoring procedures.
- d. Norm, standards, procedures, and indicators (NSPK) of financing products and instruments for green, resilient, and affordable housing.
- e. Information technology system to support green, resilient, and affordable housing provision.
- f. Capacity building activities include public campaigns, outreach, seminars/workshops, and training.

10. Outcomes

- a. Leveraging various funding sources through a blended finance scheme to support adequate, affordable, resilient, and sustainable housing program.
- b. Expanding accessibility of low-income households to creative and innovative financing sources and schemes, especially the underserved segments from current housing finance facilities, including informal and non-fixed incomes.
- c. Achieving the sustainable development goals (SDGs) goal 11.1.
- d. Reducing carbon emissions from housing buildings and supporting the nationally determined contribution (NDC) achievement.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Build the environment, increase disaster resilience and climate change.

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 500,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 5,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others (RM) : US\$ 220,000,000
<hr/> Subtotal : US\$ 500,000,000	<hr/> Subtotal : US\$ 225,000,000
TOTAL : US\$ 725,000,000	

Development of Communication System for Disaster Management

Ministry of Communications and Information Technology

1. Project Title	: Mobile Broadband for National Public Protection and Disaster Relief (PPDR)
2. Program Title	: Development of Communication System for Disaster Management
3. Executing Agency	: Ministry of Communications and Information Technology
4. Implementing Agency	: Directorate General of Posts and Informatics Operations, Ministry of Communications and Information Technology
5. Duration	: 36 months
6. Location	: Aceh Province, North Sumatera Province, Java Island and New Capital Region (IKN)

7. Objectives

To protect life, health and property through an integrated, mission-critical wireless mobile broadband communications network. This network will enable information sharing in real time during disaster relief and public protection operations, improving interoperability and coordination during multi-agency and inter-jurisdictional responses. The value of the community protection and disaster management (PMPB) network is further underpinned by the following objectives:

- a. Provision of a mission-critical mobile broadband network capability. Video, images and data from affected areas give command and field personnel the situational awareness needed for fast, effective response. Simply put, secure, reliable, real-time exchange of video, images and data during disaster relief operations saves lives, protects health and property, and the Indonesian economy.
- b. Rapid, cost-effective rollout of broadband radio coverage in areas with high risk of disasters. Some of the areas with highest disaster risk are either un-served or underserved by Indonesia's communication service providers.
- c. Provision of a national disaster relief command center during disaster relief operations, agencies must make decisions in a rapidly evolving environment. These decisions require the collection, analysis, and sharing of actionable information across all agencies involved in the response. A national disaster relief command center will provide the facilities needed to coordinate multi-agency disaster relief response and protect life, health and property. Coordination at a national level saves lives, reduces response times and makes best use of limited resources during times of extreme need.
- d. Provision of systems to provide interoperability with Indonesia's legacy public safety communication networks today, Indonesia's police, fire, emergency medical, and forestry agencies (public protection agencies) use independent, voice-only land mobile radio networks. The PMB network will support interoperable, inter-agency voice communication. The approach allows existing, voice-only public safety networks to be augmented with mission-critical broadband service in the near term, giving public protection agencies the enhanced situational awareness needed for response.
- e. Provide the ability for future network operation and expansion costs to be shared with other government agencies and partners.

8. Scope of Works

- a. Develop for public safety radio broadband (PS-LTE): for network development and public protection and disaster relief (PPDR) services in Aceh, Java Island and IKN (East Kalimantan) as well as cell on wheels
- b. Funding for early warning system (EWS) application development and system integration of related Ministries/Institutions/Regions/Institutions in the PPDR field

9. Outputs

- a. Early warning system based on cell broadcasting system.
- b. 2549 LTE-Node B units.
- c. LTE core in Medan, Jakarta and Balikpapan.
- d. 450 cells on wheels.
- e. Group communications application on LTE network.
- f. Command center for public protection and disaster management at IKN.
- g. System integration with Ministries/Institutions/Regions/Institutions in the PPDR field

10. Outcomes

- a. Increasing the effectiveness of coordination in disaster management.
- b. Development of an integrated telecommunication network system for public protection and disaster management.
- c. Reducing the impact of disasters on society.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Strengthening political, legal, as well as national defense and security stability and public services transformation

12. Project Cost

<ul style="list-style-type: none">• Foreign Funding	<ul style="list-style-type: none">• Counterpart Funding
<ul style="list-style-type: none">- Loan : US\$ 475,000,000	<ul style="list-style-type: none">- Central Government : US\$ 25,000,000
<ul style="list-style-type: none">- Grant : US\$ 0	<ul style="list-style-type: none">- Regional Government : US\$ 0
<hr/>	<hr/>
<ul style="list-style-type: none">Subtotal : US\$ 475,000,000	<ul style="list-style-type: none">- State-Owned Enterprise : US\$ 0
	<ul style="list-style-type: none">- Others (RM) : US\$ 0
	<hr/>
TOTAL : US\$ 500,000,000	Subtotal : US\$ 25,000,000

National Agency for Disaster Management

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1. **Project Title** : **Development of Early Action for Disaster Risk Management Ecosystem in Indonesia**
 2. **Program Title** : Development of Communication System for Disaster Management
 3. **Executing Agency** : National Agency for Disaster Management (BNPB)
 4. **Implementing Agency** : a. Main Secretariat
b. Center for Disaster Data Information and Communication
 5. **Duration** : 24 months
 6. **Location** : The project location is in DKI Jakarta Province (for BNPB HQ) and all provincial and cities in Indonesia (for BPBD)
-

7. Objectives

To increase the overall capacity of national focal points and local government to take early action decisions based on actual and real-time data, analyzed through advanced computational facilities and disseminated at the local level before a disaster happens.

8. Scope of Works

- a. Preparation includes the preparation of foreign loan documents and administrative practices for implementing activities.
- b. Implementation of activities, including developing infrastructure for early action decision support systems and capacity building of human resources at the national and regional levels and with the possibility of involving other ministries/institutions such as BRIN/LAPAN as PIUs if necessary.
- c. Reporting, including developing an infrastructure for an early action decision support system and developing Human Resources Capacity at the national and regional levels.
- d. Procurement of tools, equipment and systems, including procuring goods and services for ecosystem development activities for early action on disaster risk management in Indonesia, physical construction/development, supervision, operations and technology transfer with a turn-key concept to accelerate the entire process.

9. Outputs

- a. 1 (one) complete Infrastructure of computing centers and early action centers consisting of tier IV large-scale computing centers & early action Centers in Jabodetabek (for BNPB HQ).
- b. 38 (thirty-eight) Medium-scale computing centers & early action centers in each provincial capital consisting of medium-scale computing centers & early action centers.
- c. 250 (two hundred and fifty) Small-scale computing centers & early action centers in each regency/city capital consisting of small-scale computing centers & early action centers.
- d. Unmanned aerial vehicles (UAV) as remote sensing sensors with output indicators the availability of 4 (four) remote sensing unmanned aerial vehicles for potential disaster risk analysis, each of which will be placed in 4 (four) locations.
- e. Terrestrial-based disaster monitoring sensors with output indicators the availability of terrestrial-based disaster monitoring sensors spread across 514 (five hundred and fourteen) regencies/cities, which can provide initial information on potential disasters.

- f. Certified human resources with output indicators of the availability of BNPB and provincial BPBD and regency/city BPBD certified personnel.

10. Outcomes

- a. Availability of distributed early action ecosystem at national and local (provincial and cities level).
- b. Increased efficiency in implementing early action to reduce the potential risk of disasters.
- c. Availability of early monitoring based on real-time data (satellite-based and terrestrial-based equipment) for emergency response decision support system.
- d. Increased capacity together with other stakeholders in disaster management.

11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Strengthening political, legal, as well as national defense and security stability and public services transformation

12. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 250,000,000 - Grant : US\$ 0 	<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others (RM) : US\$ 0
<hr/> Subtotal : US\$ 250,000,000	<hr/> Subtotal : US\$ 0
TOTAL : US\$ 250,000,000	

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