



Department of Public Works and Highways

# Strategic Infrastructure Programs and Projects

**MANUEL M. BONOAN**

Secretary

The 2023 Philippine Economic Briefing in San Francisco

November 15, 2023



# Marcos administration's 8-point socioeconomic agenda in the near and medium term

## ROBUST ECONOMY, INCLUSIVE, AND RESILIENT SOCIETY

### PROTECT THE PURCHASING POWER OF FAMILIES



Ensure Food Security



Reduce Transport and Logistic Cost



Reduce Energy Cost

### REDUCE VULNERABILITY AND MITIGATE SCARRING FROM THE COVID-19 PANDEMIC



Tackle Health



Strengthen Social Protection



Address Learning Losses

### ENSURE SOUND MACROECONOMIC FUNDAMENTALS



Improve Bureaucratic Efficiency



Ensure Sound Fiscal Management

### CREATE MORE JOBS, QUALITY JOBS, GREEN JOBS



Promote Investments



Expand Digital Infrastructure



Improve Infrastructure



Encourage R&D and Innovation



Ensure Energy Security



Pursue a Green and Blue Economy



Increase Employability



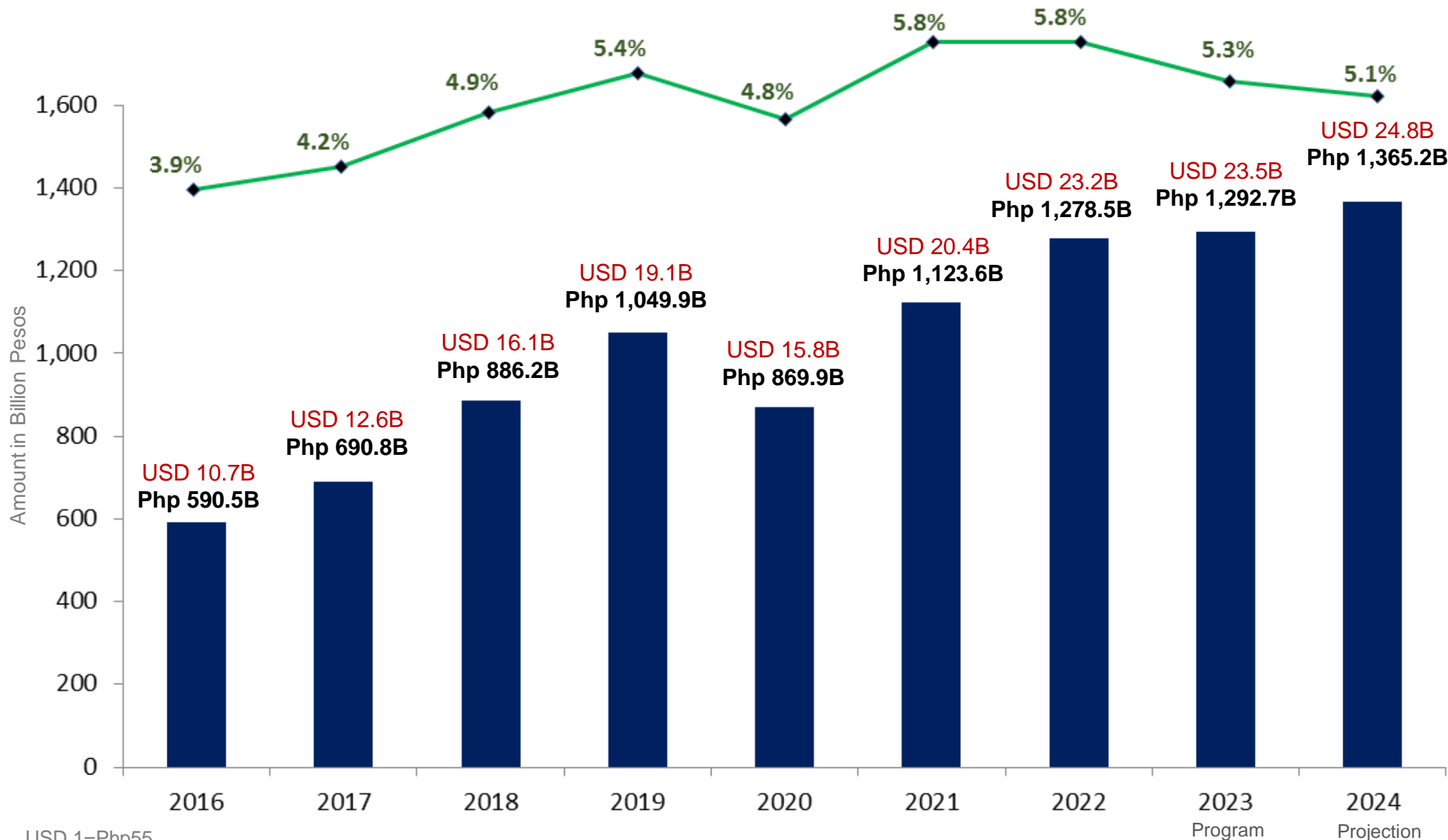
Establish Livable and Sustainable Communities

## NEAR-TERM AGENDA

## MEDIUM-TERM AGENDA



# 2016-2024 PHILIPPINES' INFRASTRUCTURE PROGRAM (% of GDP)



USD 1=Php55

Source: <https://www.dbm.gov.ph/index.php/macroeconomic-assumptions-and-fiscal-targets/fy-2024-besf>

# DPWH

per E.O. No. 124

The **Department of Public Works and Highways** is the engineering and construction arm of the Government tasked to continuously develop its technology for the purpose of ensuring the safety of all infrastructure facilities and securing for all public works and highways the highest efficiency and quality in construction

**DPWH** is responsible for the *planning, design, construction and maintenance of infrastructure, especially the national highways, flood control and water resources development system, and other public works* in accordance with national development objectives.



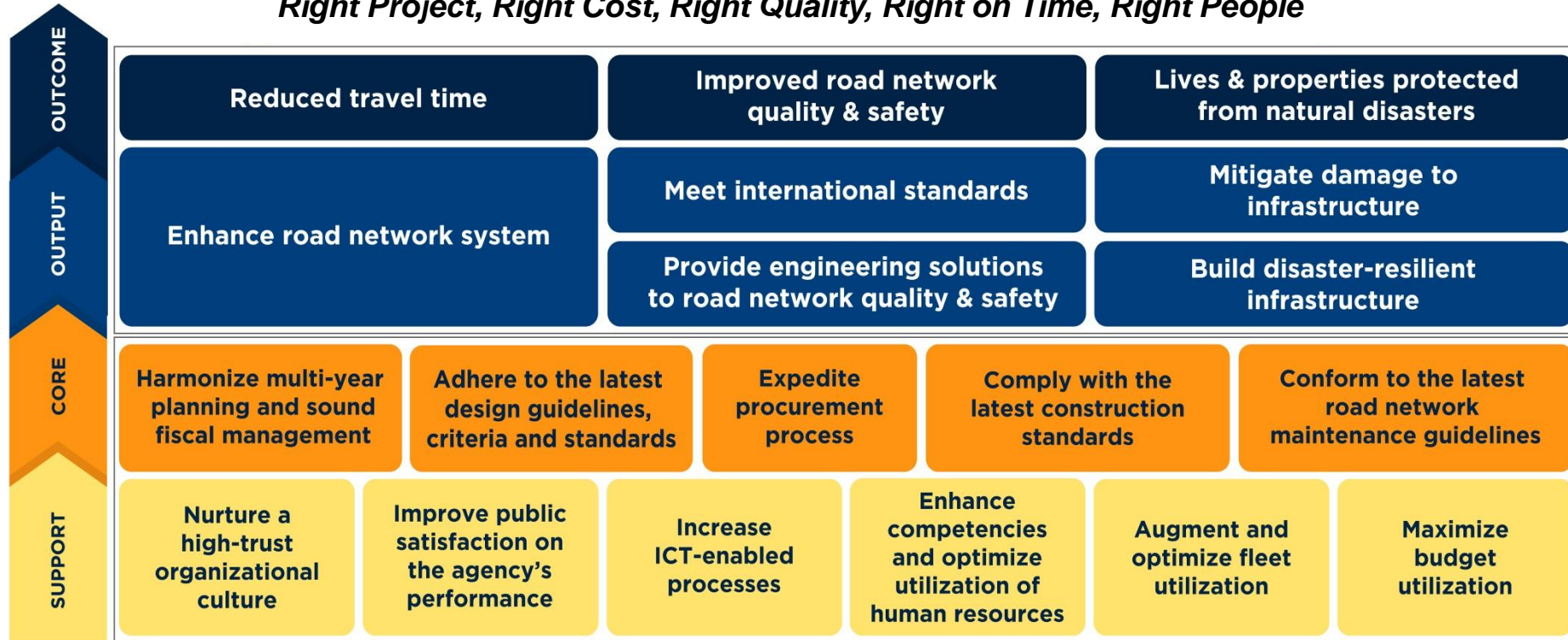
# Department of Public Works and Highways



## VISION

By 2040, DPWH is an excellent government agency, enabling a comfortable life for Filipinos through safe, reliable and resilient infrastructure

*Right Project, Right Cost, Right Quality, Right on Time, Right People*



## MISSION

To provide and manage quality infrastructure facilities and services responsive to the needs of the Filipino people in the pursuit of national development objectives

## CORE VALUES

Public Service, Integrity, Professionalism, Excellence, Teamwork



## **TRAFFIC DECONGESTION PROGRAM**

- **High Standard Highways and Expressways**
- **By-passes and diversion roads**
- **Flyovers, interchanges and underpasses**

## **SEAMLESS AND INCLUSIVE CONNECTIVITY VIA NATIONAL AND LOCAL LINKAGES**

- **Daang Maharlika Highway (N1)**
- **Inter-Island Linkage Bridge Program**
- **Gaps and Missing Links along National Roads**
- **Nautical Highway Network**
- **Convergence Programs with DOT, DOTR, DTI and DA**

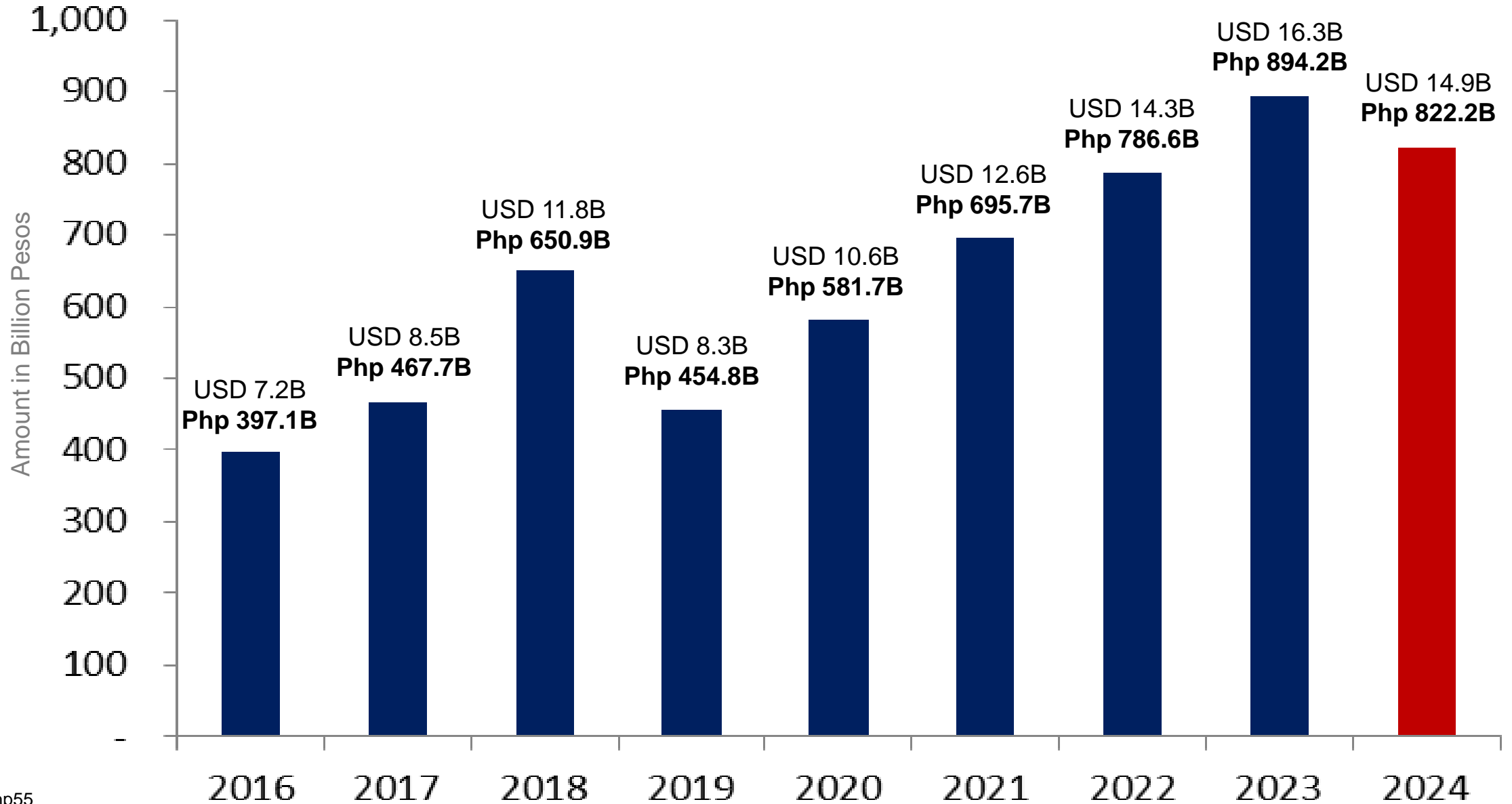
## **RESILIENT AND SUSTAINABLE COMMUNITIES**

- **Integrated Water Resources Management Program**
  - Flood Mitigation Structures in Major River Basins and Principal Rivers.
  - Water Impounding Projects.
  - Rain Water Collectors
  - Drainage Capacity Improvement
- **Disaster Risk Reduction and Climate Change Adaptation Program**
  - National Bridge Rehabilitation and Seismic Improvement
  - Road Network Redundancy Projects
  - Rehabilitation / Retrofitting of Public Buildings (School Buildings, Health Facilities, etc.)
- **Social Infrastructure Program**
  - Evacuation Centers
  - Basic Education Facilities (From DepED's Budget)
  - Infrastructure Projects in Support of National Peace and Security
- **Active Transport Program**
  - Bike lanes Network
  - Pedestrian Infrastructure





Department of Public Works and Highways  
**2016-2024 TOTAL BUDGET**



## TRAFFIC DECONGESTION PROGRAM

# Philippine High Standard Highway Network Program

Increase the country's High Standard Highways / Expressways from 523 kilometers to 1,963 kilometers based on HSH Master Plan Phases I and II



# Cebu High Standard Highway Network Program

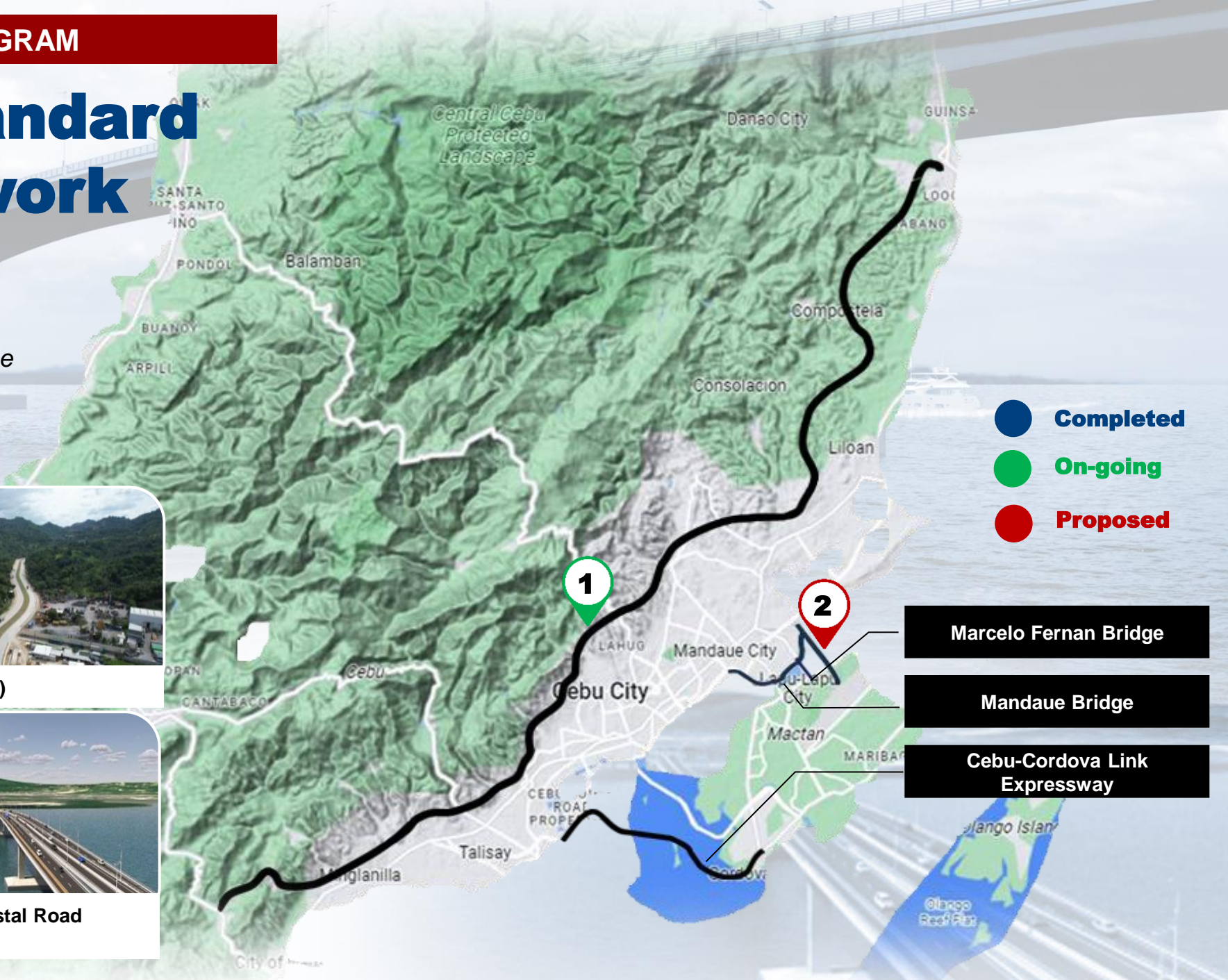
Construction of 56.9 km. expressway from Naga City to Danao City, 5.34 km. Mandaue Coastal Road and 3.34 km. Cebu-Mactan 4<sup>th</sup> Bridge.



**1** Metro Cebu Expressway (56.9 km.)



**2** Cebu-Mactan Bridge (4<sup>th</sup> Bridge) and Coastal Road Construction Project (8.68 km.)





## TRAFFIC DECONGESTION PROGRAM

# Davao High Standard Highway Network Program

Construction of an expressway, bypass road (with 2 - 2.3 km. mountain tunnels) and coastal road with a total length of 92 kms., and a 4 km. bridge connecting Samal Island and Davao City.



Davao City Bypass (45.46 km)



Davao City Coastal Bypass Road (17.78 km)



Samal Island-Davao City Connector Bridge (4.01 km)



Davao City Expressway (29.21 km)

# TRAFFIC DECONGESTION PROGRAM



Central Luzon Link Expressway, Phase I



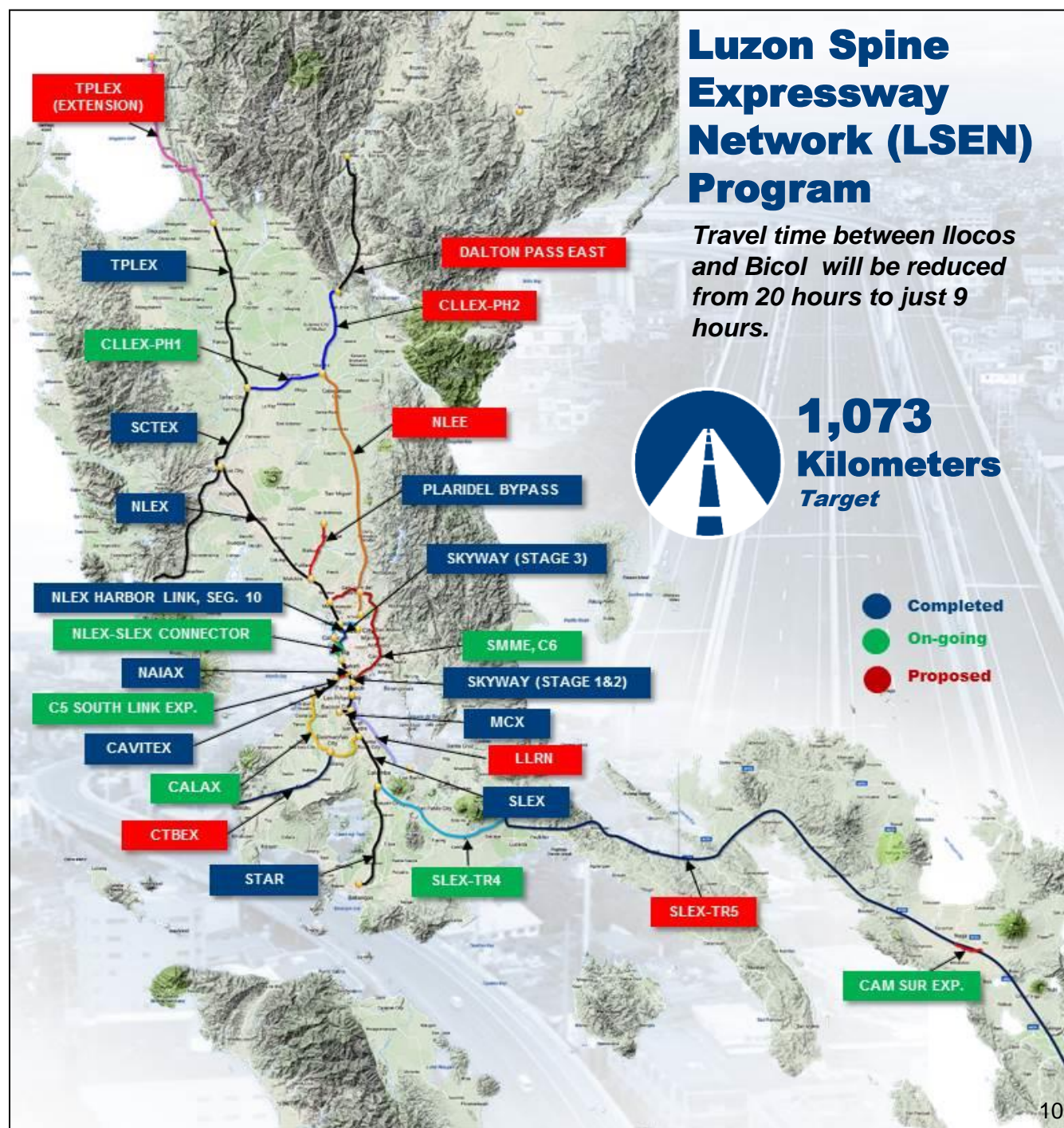
Arterial Road Bypass (Plaridel) Project, Phase III



Cavite-Laguna Expressway



NLEX-SLEX Connector Road



# Central Luzon Link Expressway Project, Phase I

Description: 30 kilometer-4 lane expressway from Tarlac City to Cabanatuan City, Nueva Ecija.

Project Impact: Travel time between Tarlac City and Cabanatuan City will be reduced from 70 minutes to 20 minutes and will benefit 11,200 motorists per day

Project Cost: Php 14.9 Billion (USD 271.6 M)

Funding Source: JICA PH-P249

Schedule: May 2016-June 2024

Status: 97% complete



# Laguna Lakeshore Road Network Project – Phase I

Description: Construction of a 50.8 kilometer Road Network along Laguna Lakeshore which will connect Lower Bicutan, Taguig City and Calamba, Laguna

Project Impact: Travel time between Southern NCR and Calamba will be reduced from 2 hours to 30 minutes. Will benefit around 32,000 travelers per day.

Project Cost: Php 181.0 Billion (USD 3.3 Billion)

Funding Source: Proposed for ADB Loan Financing

Schedule: May 2024-July 2027

Status: Detailed Engineering Design, 97% complete



# Metro Manila Logistics Improvement Program



**11 Bridges**  
(8,825 lineal meters)  
*Target*



North-South Harbor Bridge \*



Binondo-Intramuros Bridge



Palanca-Villegas Bridge \*



Lambingan Bridge



Estrella-Pantaleon Bridge

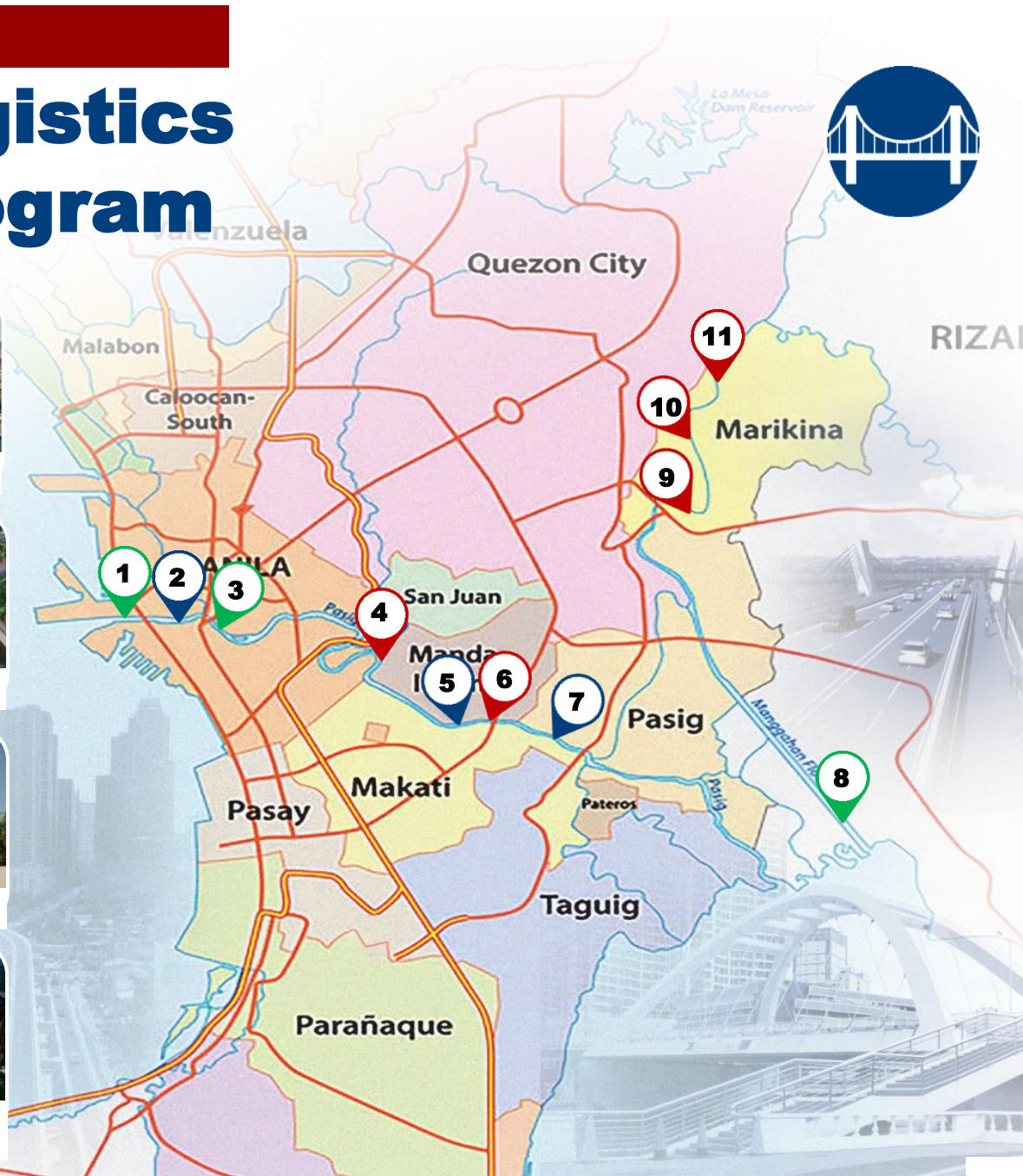


Guadalupe Bridge



BGC-Ortigas Center Link Road Project

- **Completed**
- **On-going**
- **Proposed**



Eastbank-Westbank Bridge 2\*



Marcos Highway - St. Mary Ave. Bridge



Homeowner's Drive - A. Bonifacio Bridge



Kabayani St. - Matandang Balara Bridge

\* Ongoing Design and Build Contract

# Inter-Island Linkage Bridge Program



**1**  
Bataan-Cavite Interlink  
Bridge (32.15 km)



**4**  
Nalil-Sikkiat Bridge,  
Tawi-Tawi (0.54 km)



**2**  
Panglao-Tagbilaran City  
Offshore Bridge Connector  
(2.71 km)



**5**  
Tongsinah-Paniongan  
Bridge, Tawi-Tawi (0.57 km)



**3**  
Guicam Bridge, Zamboanga  
Sibugay (0.54 km)



**6**  
Malassa-Lupa Pula Bridge,  
Tawi-Tawi (0.68 km)



**12 Bridges**  
(90 Kilometers)  
Target



**7 8**  
Panay-Guimaras-Negros  
Island Bridges Project  
(32.47 km)



**9**  
Cebu-Mactan Bridge  
(4th Bridge) and Coastal  
Road Construction Project  
(8.68 km)



**11**  
Panguil Bay Bridge  
(3.17 km)



**10**  
2nd San Juanico Bridge  
(4.85 km)



**12**  
Samal Island-Davao City  
Connector Bridge 4.01 km)

- Completed
- On-going
- Proposed

# Bataan-Cavite Interlink Bridge

**Description:** The project involves the construction of a 32.15 km, four (4)-lane bridge starting from Barangay Alas-asin in Mariveles, Bataan, crossing Manila Bay and terminating in Barangay Timalan, Naic, Cavite. It also involves construction of two (2) navigation bridges – the North Channel Bridge and South Channel Bridge with main spans of 400 meters and 900 meters, respectively.

**Project Impact:** Travel time between Bataan and Cavite will be reduced from 5 hours to 45 minutes. It will benefit around 25,117 travelers per day.

**Project Cost:** Php 219.3 Billion (USD 4.0 Billion)

**Funding Source:** ADB

**Schedule:** 4Q 2023-4Q 2029

**Status:** Detailed Engineering Design, 93% complete.



# Panay-Guimaras-Negros Island Bridges Project

Description: Construction of 32.47 km – 2 sea-crossing bridges including connecting roads and interchanges that will connect the islands of Panay, Guimaras and Negros.

- Panay-Guimaras (13.00 km)
- Guimaras-Negros (19.47 km)

Project Impact: Travel time from Panay Island to Negros Island will be shortened from the current 3-4 hour - shipping to about 1 hour by vehicles through the interlink bridges including passing the Guimaras Island. Will benefit around 6,589 – 8,047 travelers per day.

Project Cost: Php 187.5 Billion (USD 3.4 B)

Funding Source: Proposed for co-financing of Economic Development Cooperation Fund (EDCF) and Economic Development Promotion Facility (EDPF)

Schedule: DED: 2023-2035; CW: 2025-2030

Status: On-going procurement of Consulting Services for Detailed Engineering Design and Tender Assistance







## Samal Island-Davao City Connector Bridge (Design and Build)

Description: Construction of a toll-free four (4) lane cable stayed (extradosed) bridge with a total length of 4.01 km crossing Pakiputan Strait.

Project Impact: Project can serve around 25,000 vehicle/day with an anticipated reduction in travel time from 55 minutes via RORO/ ferry to 4.5 minutes.

Project Cost: Php 23.0 Billion (USD 418.9 Million)

Funding Source: China ODA Loan China ODA Loan – 20220060763

Schedule (Design and Build): Sep. 2022-Aug. 2027

Status: Overall (Design and Build)

Accomplishment-3% complete



## **Daang Maharlika (N1) Improvement Program**

*Widening, reconstruction, rehabilitation and upgrading of road sections and bridges along the 3,082 km. Daang Maharlika Highway (N1).*







## **Nautical Highway Network Improvement Program**

*Widening, reconstruction, rehabilitation and upgrading of road sections and bridges along the 2,925 km. Nautical Highway (1,174 km Western Nautical, 422 km Central Nautical, 1,329 km Eastern Nautical)*





# Convergence Programs

<p><b>DOT</b></p> 	<p><b>Tourism Road Infrastructure Program (TRIP)</b></p>	<p>The Tourism Road Infrastructure Program is aligned with the strategic direction of National Tourism Development Plan to improve access and connectivity to tourism gateways, service centers and tourism sites.</p>
<p><b>DTI</b></p> 	<p><b>Roads Leveraging Linkages of Industry and Trade (ROLL-IT) Program</b></p>	<p>Enhance industry-developing infrastructure in priority economic and manufacturing zones in support of the Export Development Act, the Small and Medium Enterprises (SME) Act, and the Comprehensive National Industrial Strategy.</p>
<p><b>DOTR</b></p> 	<p><b>KAlsada TUngo sa Paliparan, Riles at daungAN (KATUPARAN) Program</b></p>	<p>Enhance linkages and access to seaports, airports and rail stations to further improve the logistics, transport and economic activities in these key industry hubs.</p>
<p><b>DA</b></p> 	<p><b>Agri-Infrastructure Support Program</b></p>	<p>Construction of Farm to Market Road and Farm to Mill Road based on Network Masterplan.</p>

# Flood Management Program

*Adopt Integrated Water Resource Management principles and implement River Basin Approach to flood management and water resource optimization.*

## 18 Major River Basins



**Flood Risk Management Project in Cagayan River**



**Pasig-Marikina River Channel Improvement Project, Phase IV**



**Metro Manila Flood Management Project, Phase I**



**Flood Risk Management Project in Tagaloan River**



**Integrated Disaster Risk Reduction and Climate Change Adaptation Measures in the Low-Lying Areas of Pampanga Bay**



**Flood Risk Management Project in Cagayan De Oro**



# DPWH ACCOMPLISHMENTS

(July 2022-August 2023)



**5,744**  
kilometers  
**Roads \***



**709**  
**Bridges \***



**2,863**  
**Flood Control**  
**Projects**



**6,532**  
**Rain Water**  
**Collector**  
**System**



**282** kilometers  
**Farm to**  
**Market Roads**



**10** kilometers  
**Farm to**  
**Mill Roads**



**4,384**  
**Classrooms**



Abusag Bridge, Cagayan



Daang Maharlika, Aritao, Nueva Vizcaya



Sto. Nino Bridge, Magalang, Pampanga



San Francisco Bridge, Tarlac



Samar Pacific Coastal Road



Improving Growth Corridors in Mindanao Road Sector Project (PR 6, 7 & 9)



Flood Risk Management Project in Cagayan De Oro River, CP 2



Flood Control, Dingalan, Aurora



Flood control structures along Porac River, Pampanga



Bridge connecting Brgy Payac and Dadaor, Bangui, Ilocos Norte



Farm-to-Mill Road, Isabela, Negros Occidental



Farm-to-Market Road (FMR), Rosales, Pangasinan



Farm-to-Market Road, Pagudpud, Ilocos Norte

*\* Constructed, maintained, rehabilitated, widened and upgraded.*



# Department of Public Works and Highways



# THE END

