



JICA's Cooperation for Quality Roads / Highways in the Philippines



JICA's Proj.

Non-JICA's Proj.

October 4th, 2022

@Diamond Hotel, Philippines

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Chief Representative

JICA Philippines Office

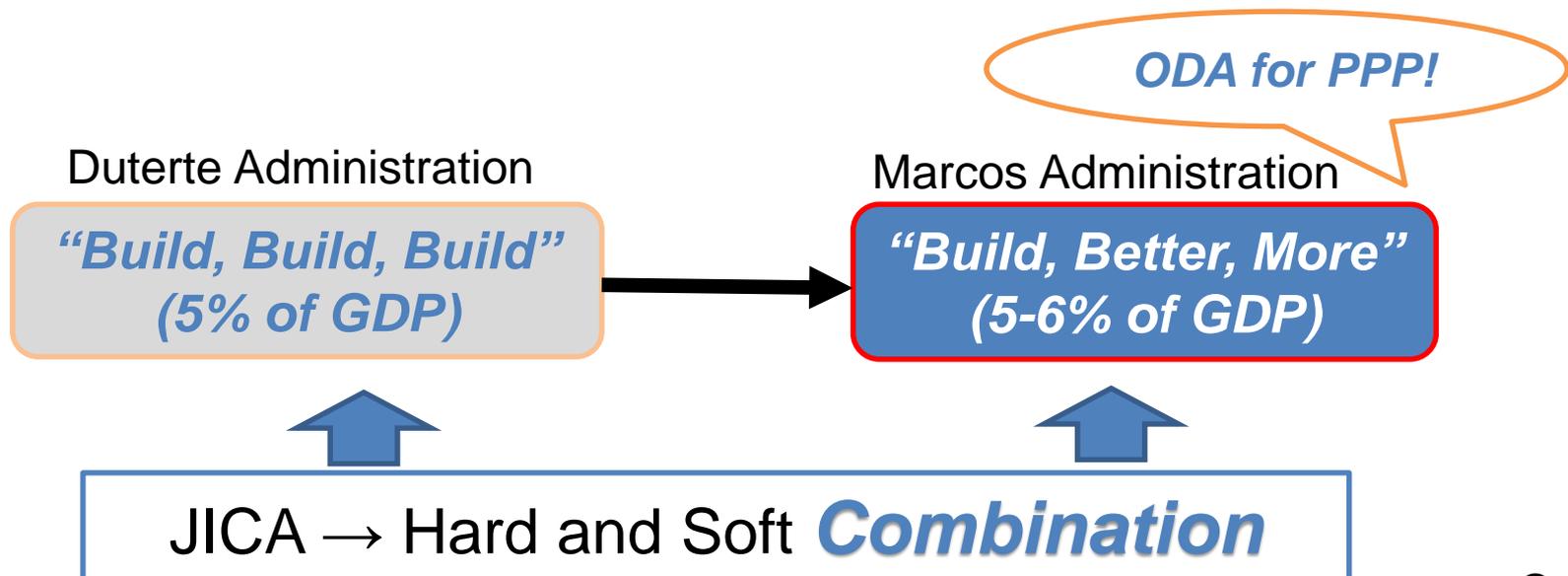
1. Importance of Infra Dev
2. JICA's M/Ps
3. Catalytic Role of ODA Projects
4. Importance of O/M
5. JICA's Partnership
with the Japanese Private Sector

1. Importance of Infra Dev

PH's Infra - the ***lowest Rank*** in the region

- *World Economic Forum: 96th among 141 countries*
- *IMD (Swiss institution) : 57th among 64 countries*

Investment for *sustainable* infra – PH's critical challenge



To articulate GoP's **National Priority**

To enhance the **Predictability** for **Private Sector Investment**

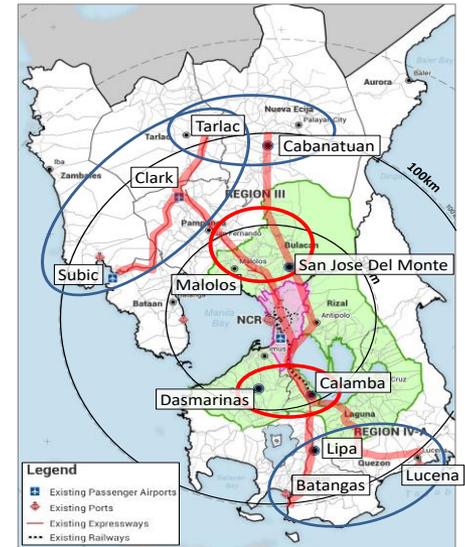
Urban M/Ps

① **Metro Manila and Its Surrounding Areas**

Transport Roadmap (Dream Plan)

[March 2013 – March 2014] – Original Study

[April 2017-April 2018] – Update Study

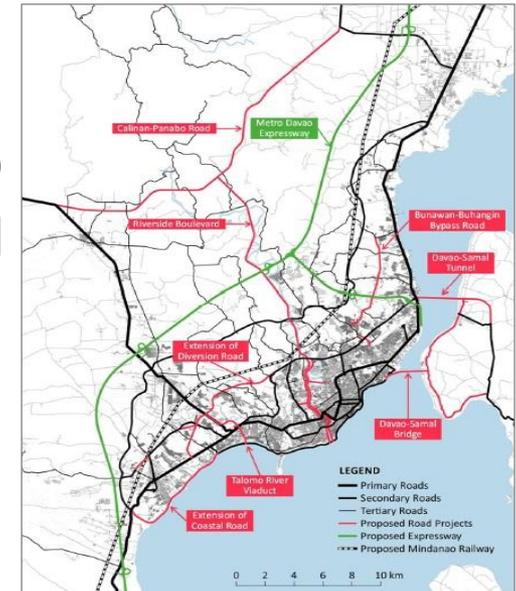
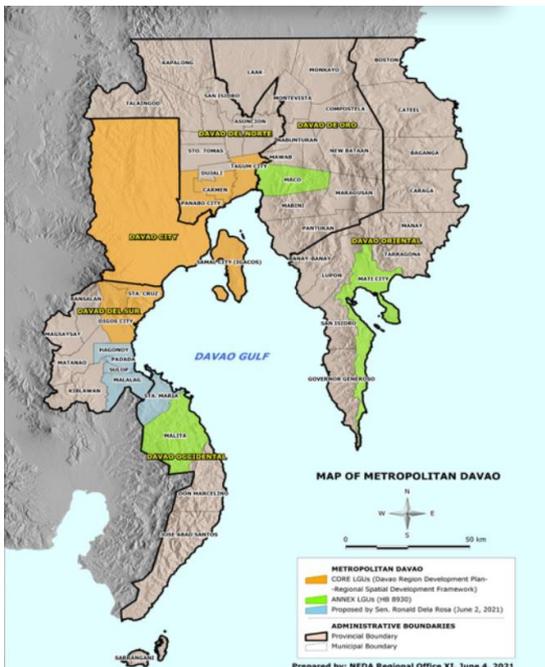


② **Metro Cebu** Transport System

[July 2017-October 2018]

Urban M/Ps

③ **Davao City** Infra & CD [January 2017 – June 2018]

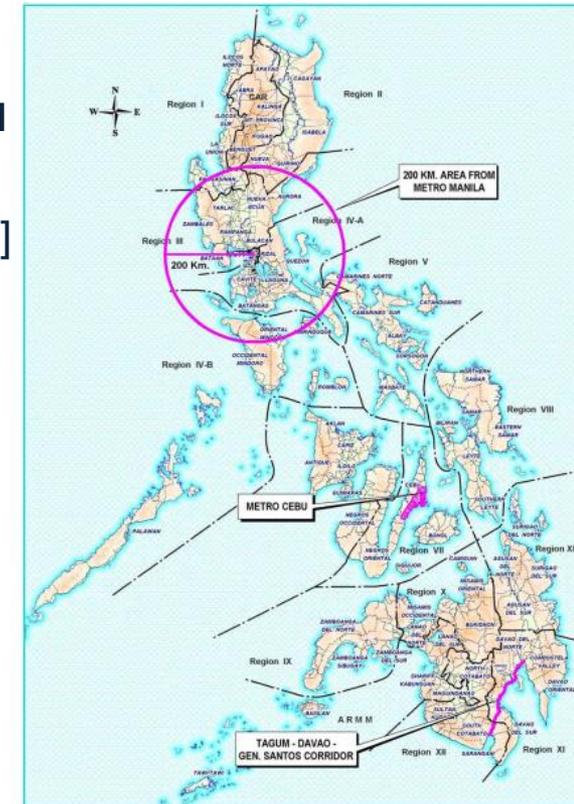


④ **Metropolitan Davao** Urban Dev. [to be commenced soon]

M/Ps for High Standard Highway Network

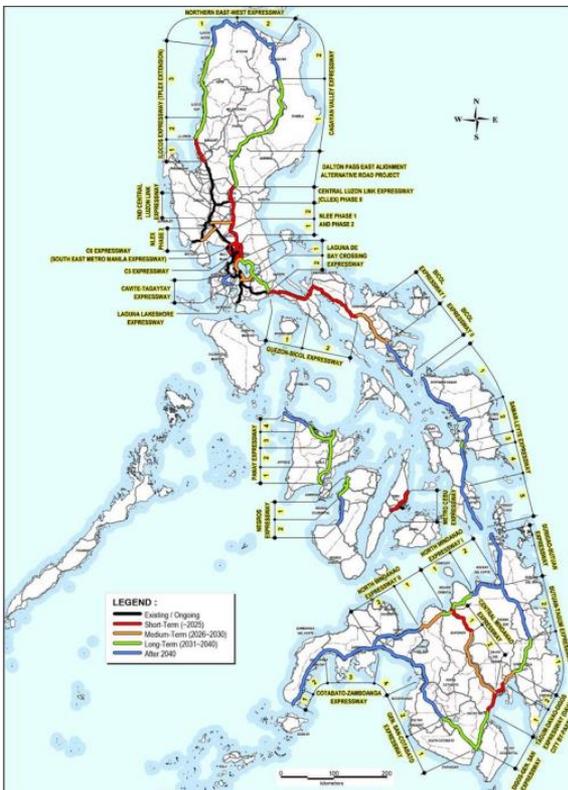
Phase 1

Metro Manila, Metro Cebu and Mindanao [April 2009 - July 2010]



Phase 2

(1) Nationwide Inter-Regional
(2) Pre-F/Ss on Priority Highways
 [February 2019 - July 2021]



JICA's ODA infra projects provide the **Private Sectors**, both in the Philippines and Japan, with ;

- Opportunities for ***Construction Works***
- Opportunities for ***O&M Business***
- Incentives for ***More Investment*** in Related Infra Projects



- ❖ ***Pump-Priming / Inductive Effect***
- ❖ ***Business Risk Mitigation***

3. Catalytic Role of ODA Projects (2/5)



Project

Subic-Clark-Tarlac Expressway (**SCTEX**)

Loan Agreement Signing

September 14, 2001

Loan Amount

JP¥ 59,037 million

O&M Company

NLEX Corporation

Project

South Luzon Expressway (**SLEX**)

Loan Agreement Signing

February 9, 1990

Loan Amount

JP¥ 4,238 million

O&M Company

STAR Tollway Corporation



3. Catalytic Role of ODA Projects (3/5)



Project

Central Luzon Link Expressway (CLLEX) (1)

Loan Agreement Signing

March 30, 2012

Loan Amount

JP¥ 22,796 million

Completion Date (plan)

- July 2021 (partial operations – first 18 kms)
- 2023 (full operations – 30 kms)

Project

Arterial Road Bypass (Plaridel)

Loan Agreement Signing

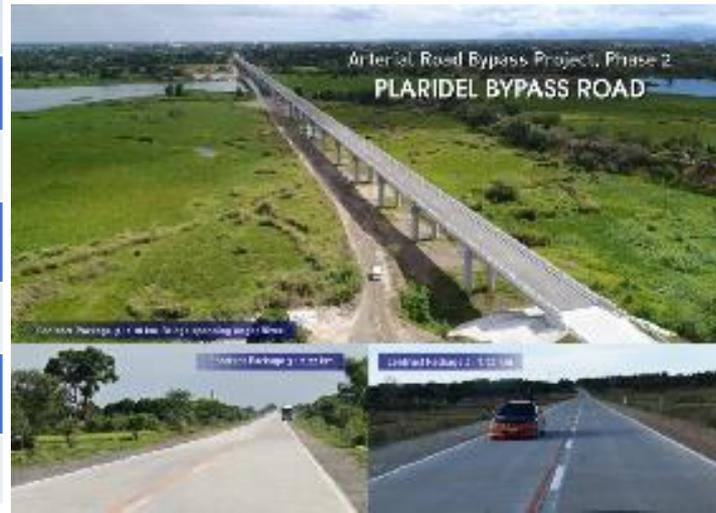
February 28, 2018 (Phase III)

Loan Amount

JPY 9,399 million

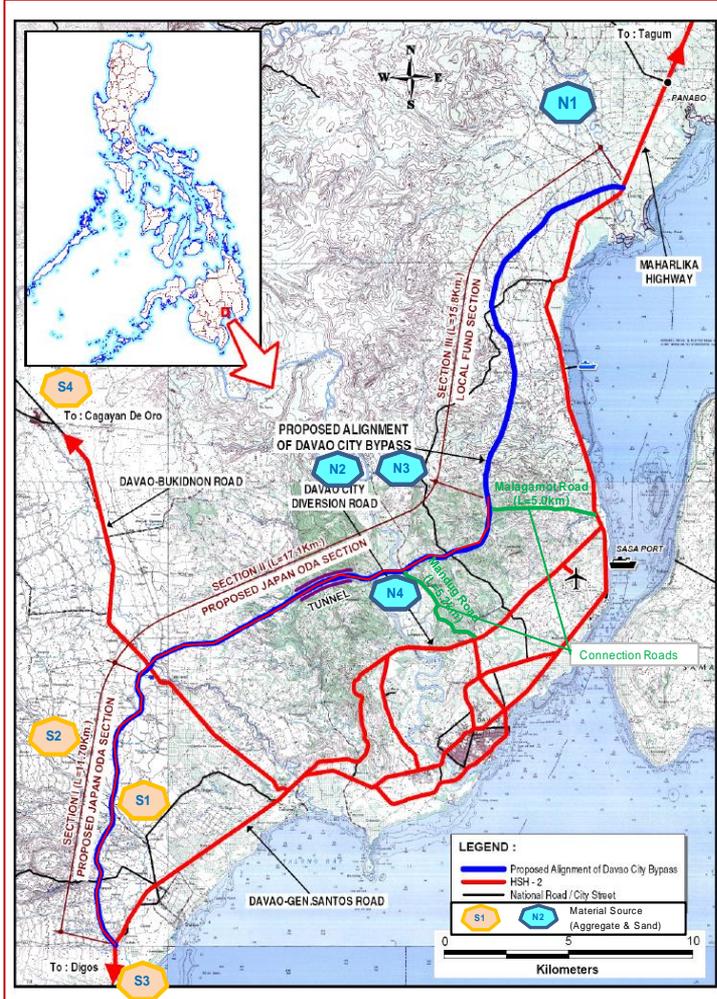
Completion Date (plan)

2025



3. Catalytic Role of ODA Projects (4/5)

Project
Davao City Bypass
Loan Agreement Signing
(I) August 25, 2015 (II) June 16, 2020
Loan Amount
(I) JPY 23,906 million (II) JPY 34,830 million



the **first-ever** long-distance (≈ 2.3 kilometers) mountain tunnel in PH



3. Catalytic Role of ODA Projects(5/5)

Project

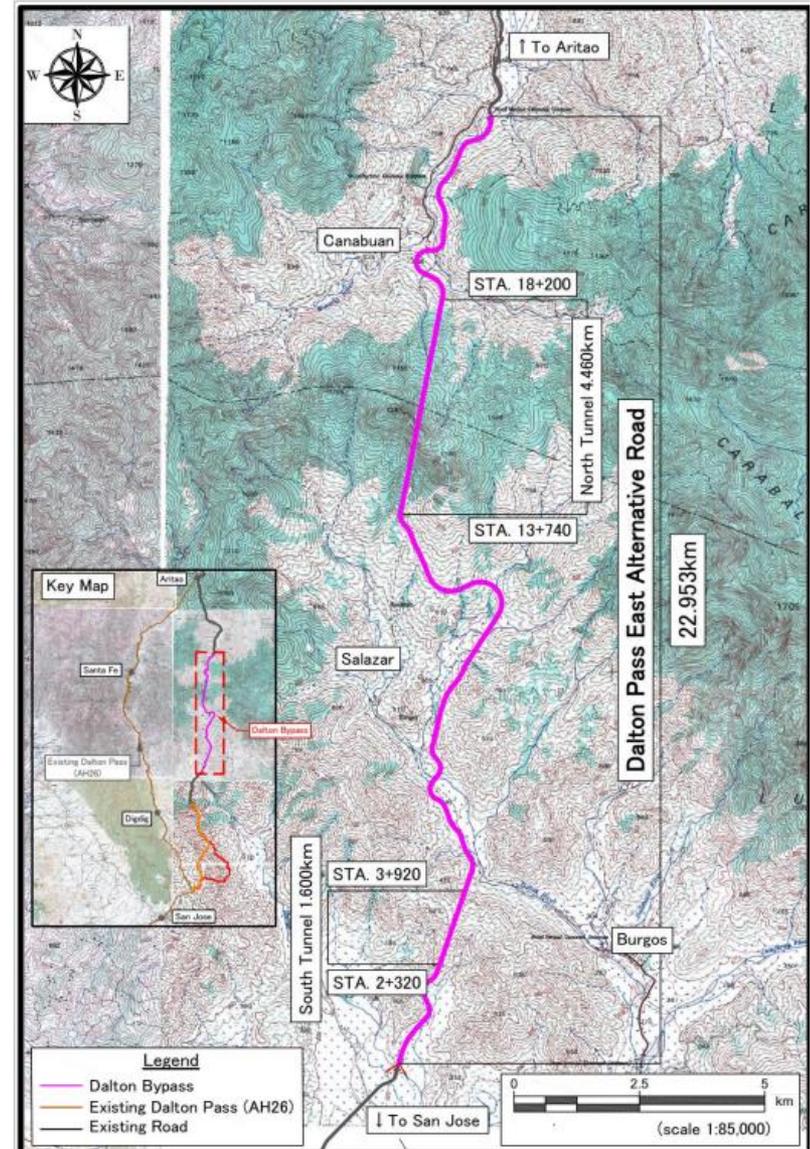
Dalton Pass East

Objective

Construction of approx 23 km bypass road from San Jose, Nueva Ecija, to Aritao, Nueva Viscaya, including road tunnel(s) and bridges

Status

F/S ongoing



4. Importance of O/M (1/2)

- Proper Daily **Inspection/Maintenance**
 - ✓ for **“Long Life”**
 - ✓ for **“Less Cost”** for Lifecycle Cost
- **“Maintenance-Free”** Myth → **“Quality Infrastructure”**
c.f. “America in Ruins”
- **Overloaded Vehicles** Control



Crack of floor slab



Crack of girder



Crack of pavement



Rutting

4. Importance of O/M (2/2)

- **Capacity Dev** – Key for Proper O/M

- JICA's **Technical Cooperation**

T/C for Quality Management for Highway and Bridge Construction and Maintenance

- *Phase 1 Feb 2007- Feb 2010*
- *Phase 2 Oct 2011 - Sep 2014*
- *Phase 3 Feb 2016- May 2019*

Road Planning and Management Advisor

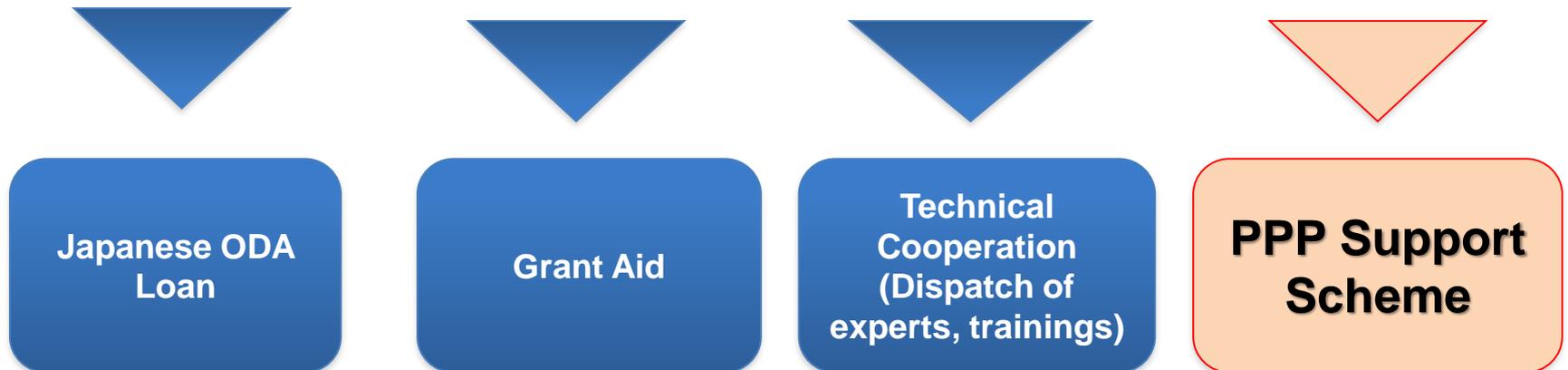
- *1980s ~*
- *Mr. TAKAHASHI Kunihiro (Jan 2020-)*

KCCP (Knowledge Co-Creation Program) & Scholarship Program



- **Private sector's** Technology and Skill

By utilizing various schemes, JICA collaborates with the Japanese private sector to conduct ODA more efficiently and effectively.



PPP Support Scheme

- *Japanese private companies* have **advanced/promising technology and expertise**, which generate positive impacts.
- JICA invites **proposals from Japanese companies**, and collaborates with them to encourage further engagements of private companies.
- **PSIF (Private-Sector Investment Finance)** can be considered as well.

Morocco's Example : Structural Inspection with Special High-Place Work Technologies – “Ninja Tech”

Contributing to Infrastructure Maintenance and Management with Ninja-tech from Japan

This program involves two of Japan's companies—Hanshin Expressway Co. Ltd. and Tokusyu Kousyo Gijutsu Inc.—in the promotion of special high-place work technology called Ninja-tech, and transfer of the related technology to the Société Nationale des Autoroutes du Maroc (ADM) in Morocco. Ninja-tech is used to examine and inspect structures only with ropes and specially designed tools without using scaffolding or high-lift work vehicles.

Morocco will have its planned nationwide expressway network almost completed within a few years. Along with the gradual shift from the construction period to the maintenance phase, it has become urgently required that efficient and effective maintenance and management systems are investigated and introduced. In these circumstances, the program aims to become a long-continuing business for infrastructure maintenance and management by addressing the challenges that Morocco will soon face, and by disseminating Japan's advanced technologies in this field as well as developing local human resources. Specifically, ADM personnel were trained in study sessions and hands-on practice held in Japan concerning infrastructure maintenance and management and high-place operations.

It is strongly expected that the two companies and JICA will contribute to the sustainable social and economic development of Morocco through this program, as well as to infrastructure maintenance and management throughout Africa, by extending the technologies concerned outside Morocco.



ADM personnel training held at a bridge in Morocco



Thank You for Your Attention !

Maraming Salamat Po !

