



**RTD on Transportation Infrastructure for National Development,  
Competitiveness, and Resiliency**

# **Transport Infrastructure Development Initiative**

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# DOTC MANDATE and VISION

*To develop, promote, implement and maintain integrated and strategic transportation and **communications** systems that will ensure safe, reliable, responsive and viable services to accelerate economic development and to better serve the needs of the people. (Based on E.O. 125, as amended)*

*By 2030, DOTC is a world class organization, providing integrated transport, connecting people, islands, families, communities and the nation with the rest of the world, and constantly responding for the environmentally sustainable and globally competitive transport*



# INFRASTRUCTURE RELATED AGENCIES Under the DOTC

## CIVIL AVIATION/AIRPORT AUTHORITIES



## RAILWAY AUTHORITIES



## PORT AUTHORITIES





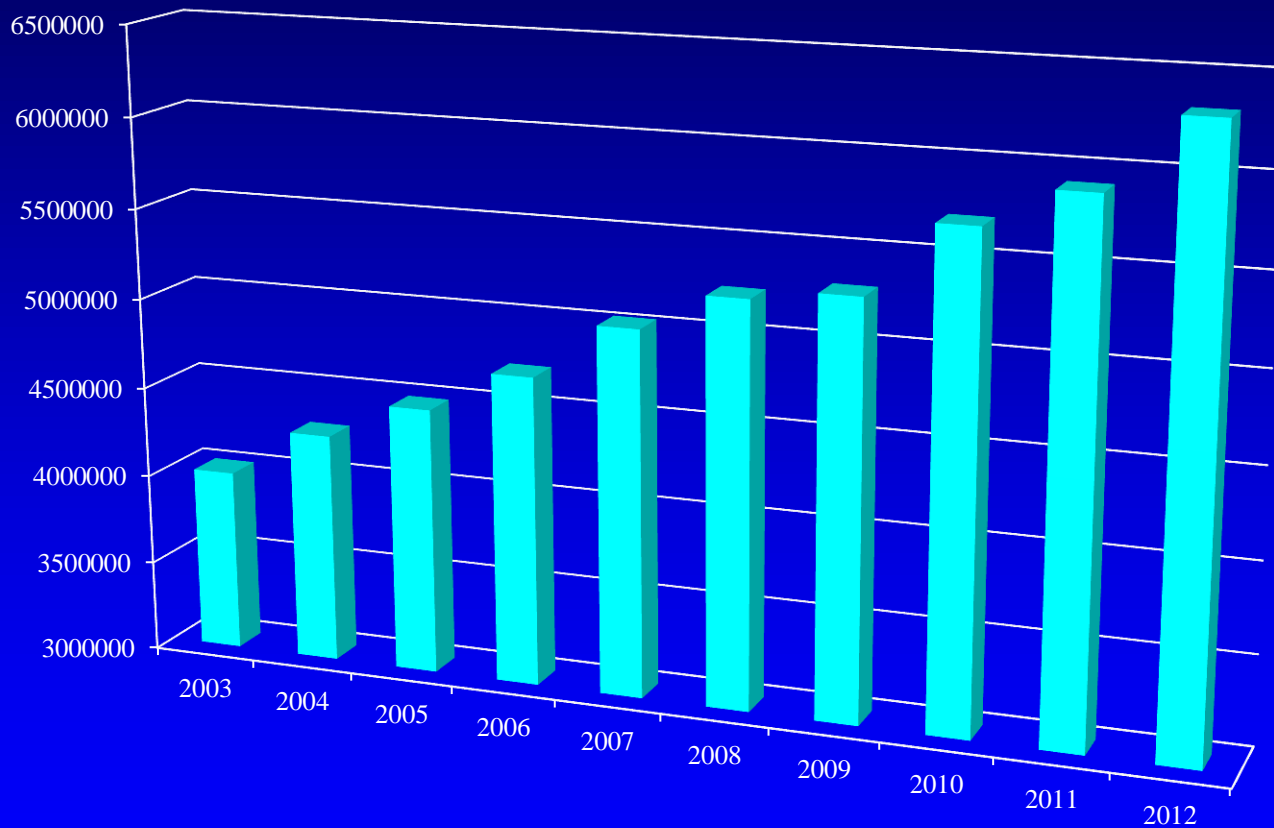
# Challenges.....





# Philippine Economic Outlook

## Real Gross Domestic Product (2000 = 100, In Million Pesos)





# INTERNATIONAL VISITOR ARRIVALS, 2012

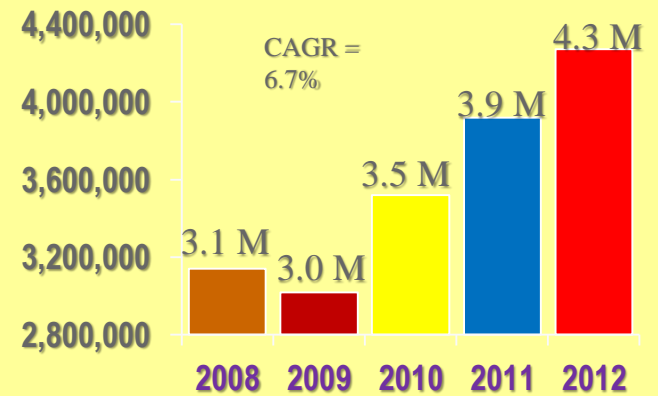
## Key Source Markets



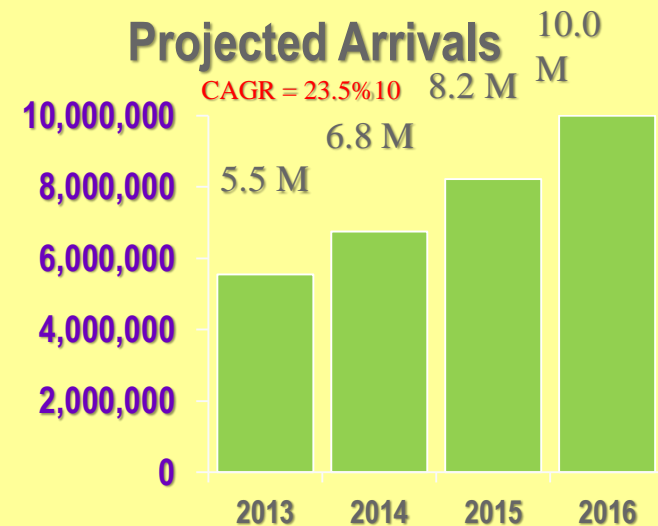
### Growth Rate

11.5%
4.5%
9.9%
3.1%
19.1%
12.0%
7.6%
5.3%
5.9%
24.8%
8.4%
9.5%

## 5-Year Arrivals



## Projected Arrivals





# Forecast of Air Traffic Demand (2005-2025)

Period	Passenger (In Thousand)		Aircraft Movement		Cargo (In Tons)	
	Int'l.	Dom	Int'l.	Dom	Int'l.	Dom
2005	9,695	15,563	59,779	347,821	697	317
2010	12,516	20,060	91,1787	374,524	889	414
2015	16,436	26,286	116,428	437,799	1,147	548
2020	21,583	34,440	149,278	510,680	1,491	725
2025	28,342	45,124	191,616	598,778	1,942	956

Source: *Master Plan Study on the Strategy for the Improvement of National Airports in the Republic of the Phils, 2006.*

<b>2012 (Actual)</b>	<b>16,421</b>	<b>42,793</b>	<b>194,697</b>	<b>925,937</b>	<b>1,735</b>	<b>523</b>
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# REGIONAL COOPERATION

## ASEAN Single Aviation Market (ASAM) 2015



### ASEAN Multilateral Agreement on Full Liberalisation of Passenger Air Services (MAFLPAS), Nov 2010:

- Protocol-1: 3<sup>rd</sup> and 4<sup>th</sup> Freedom Rights
- Protocol-2: 5<sup>th</sup> Freedom Rights



### BIMP-EAGA

#### Memorandum of Understanding (MOU) on Expansion of Air Linkages (Jan 2007)

- Protocol-1: 3<sup>rd</sup> and 4<sup>th</sup> Freedom Rights
- Protocol-2: 5<sup>th</sup> Freedom Rights



# OVERALL DEVELOPMENT FRAMEWORK



## **Pres. Aquino Social Contract:**

- 1) Inclusive Growth
- 2) Poverty Reduction
- 3) Integrity of Environment



# *Broad Strategy : Accelerating Infrastructure Dev't.*

*To enhance the country's competitiveness & increase productivity*

Access to/from  
Outside the  
Country

Linking Eco-Center  
and  
Growth Areas  
to support  
agri production

***INCLUSIVE  
GROWTH***

Fast and Efficient  
Access to Tourism  
Complexes

Safety and Security  
to enable  
dev't. in conflict-  
affected & poverty-  
stricken areas



WHAT HAVE WE DONE  
AND  
WHAT ARE GOING  
TO DO???





# ***What have we done in the last decade???***

**New Iloilo Airport**  
**Completed: June 2007**



**New Bacolod (Silay) Airport**  
**Completed: July 2007**

**Busuanga Airport**  
**Completed: July 2008**







# Most Recently....

## Laguindingan Airport Development Project

### Scope:

Construction of a Brand New Airport at Laguindingan to replace the existing Cagayan de Oro Airport

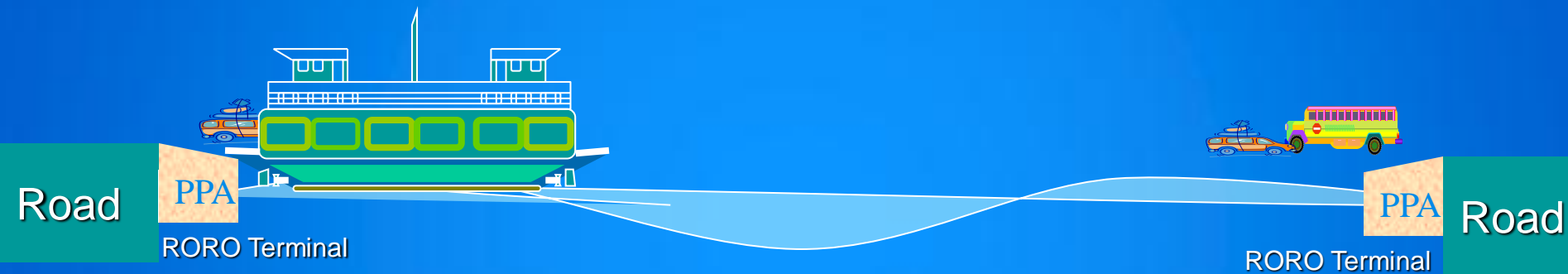


Project Cost:  
US\$167.094 (approx.)

Commercially Opened:  
June 15, 2013

# Development of RORO System

*“Moving Bridges” b/w Islands*



*To provide seamless connectivity for moving people and goods throughout the island archipelago*





# LEGEND:



**WESTERN RORO ROUTES**  
**CENTRAL RORO ROUTES**  
**EASTERN RORO ROUTES**



**ROAD LINKAGES**  
**RO-RO LINKAGES**

SOUTH  
CHINA  
SEA

*To date, PPA has invested a total of **₱10.5 billion** for the construction of new ports, additional ramps and passenger terminal buildings since 2003 for the development of the system*







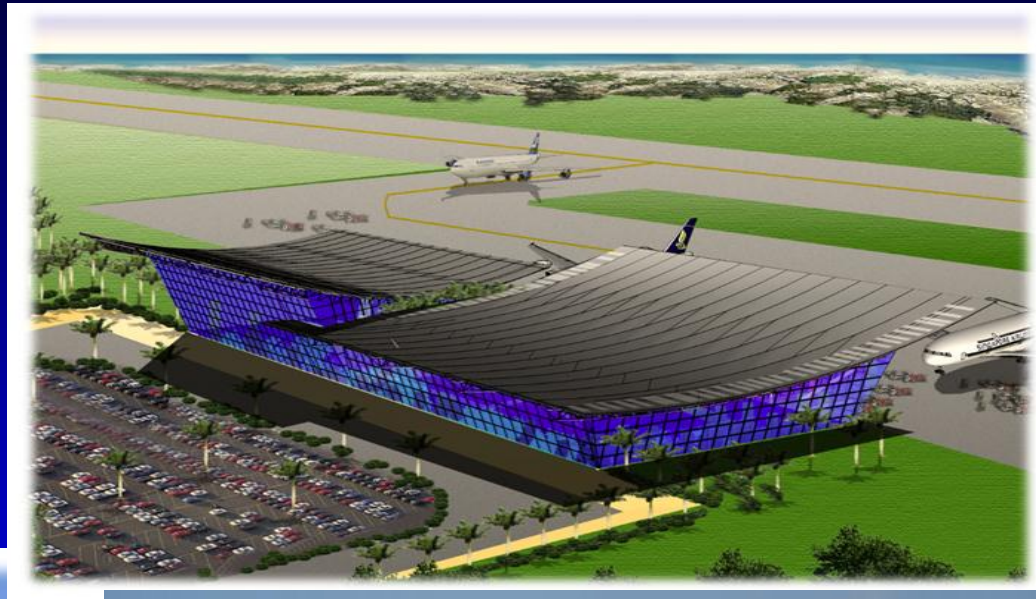
# Recent Dev't Initiatives in Airports

## Caticlan Airport Development Project

**Scope:** Construction of New Terminal Complex, Runway widening/ extension, new Apron, etc. 25 years O &M

**Implementation Mode:** PPP (BROT)

**Estimated Cost:** ₱2.5 Billion (Devt cost)







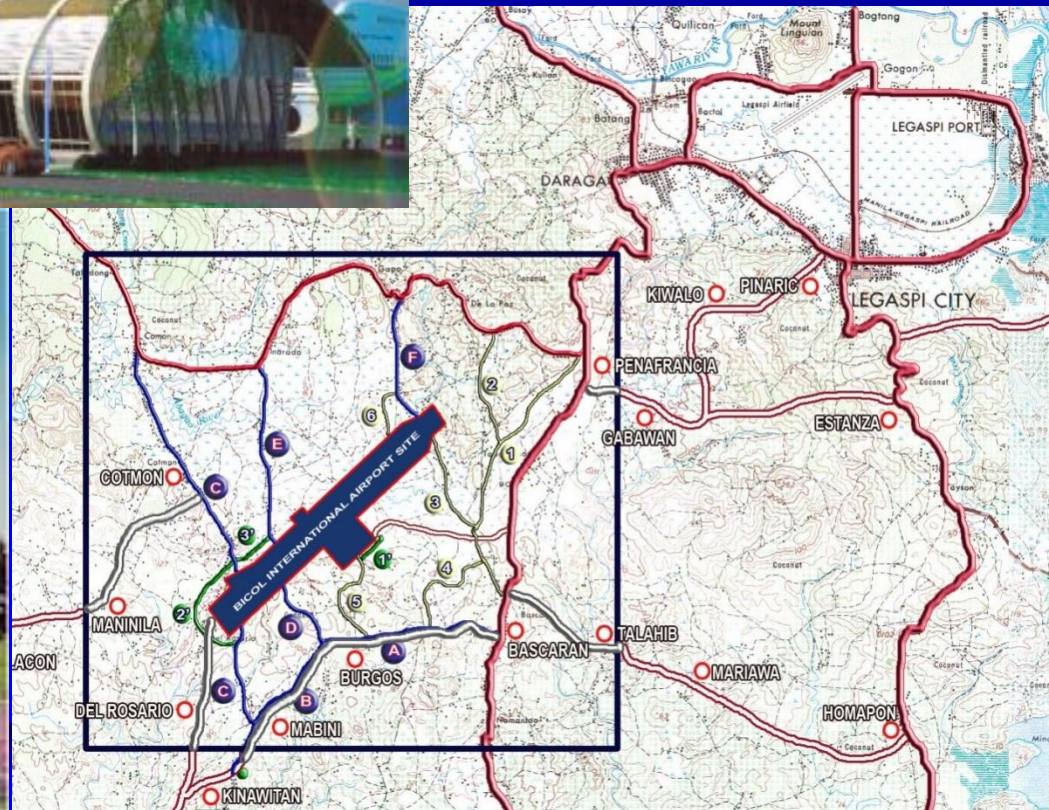
# Recent Dev't Initiatives in Airports

## New Bicol International Airport Development Project



Project Cost: P4.7 B  
Funding: GOP

Status:  
Earthworks completed  
Access Road Completed  
Airside Facilities on-going



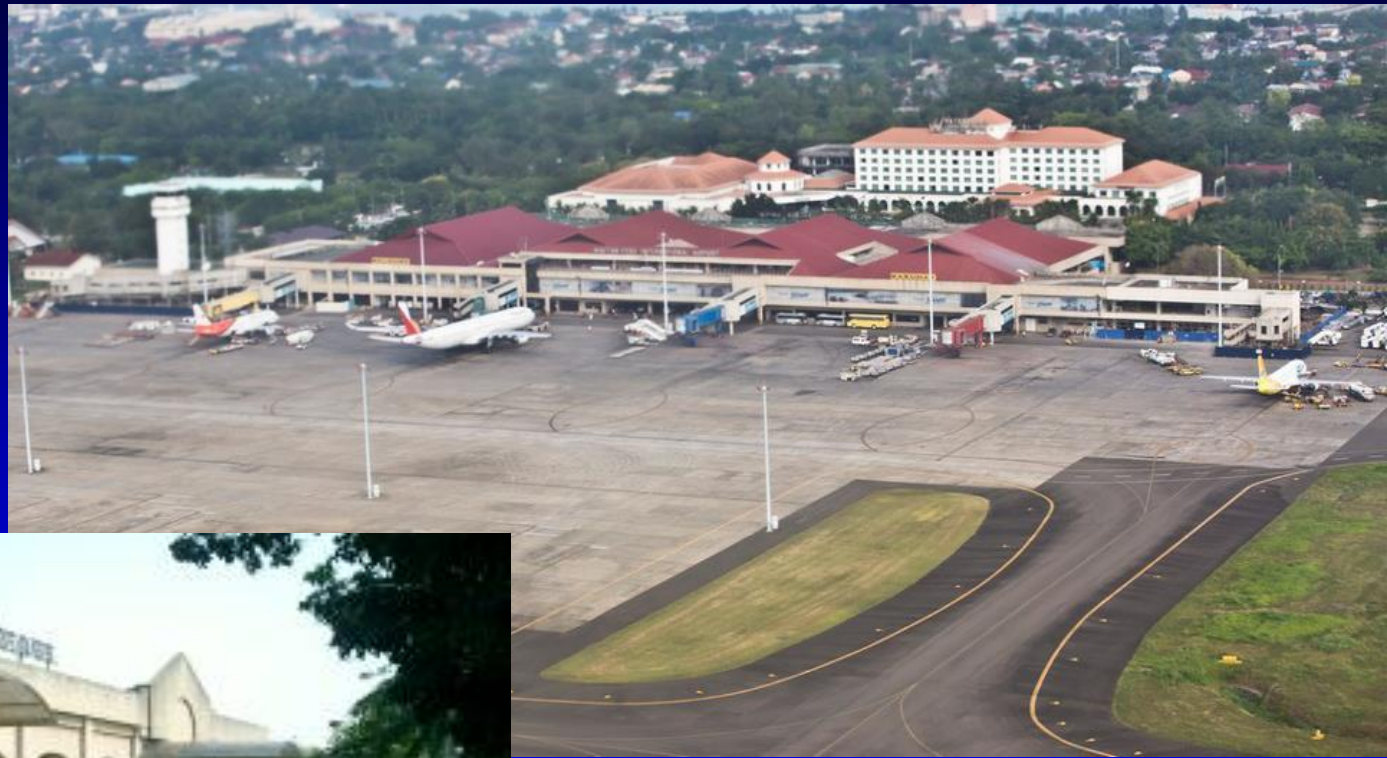




# New Development initiatives Airports

## Mactan-Cebu International Airport Development Project

Construction of New Int'l Pax Term.  
And other Landside  
Facilities and  
Operation/Mangement  
for 25 years



Being pursued under the **Public-Private Partnership** mode

Estimated Cost: 17.52 Billion

Bid Submission: 28 November 2013



# New Development initiatives Airports

## Puerto Princesa International Airport Development Project

### **Scope:**

Construction of New Passenger Terminal Bldg and other Landside Facilities, Upgrading of Runway, Taxiway, New Apron & ANS

**Project Cost:** US\$102M

**Funded by:** Economic Development Cooperation Fund (EDCF)

**Thru:** Korean Eximbank

**Loan:** US\$71.6Million

**Implementation Mode:** Design and Build Scheme

**Submission of Bids:** 30 October 2013

**Project Must be completed by:** 1stQ of 2016







# New Development initiatives Airports

## New Bohol (Panglao) Airport Development Project



### Scope:

*Construction of a Brand New Airport at Panglao Island to replace the existing Tagbilaran Airport*

### Project Cost:

Loan: Yen 10.782

GOP: Yen 2.566

Total: Yen 13.348

Target Completion: April 2016

### Status:

Detailed Eng'g Design Completed  
Ongoing tender for the Consulting Services (AT, CS,DLP)

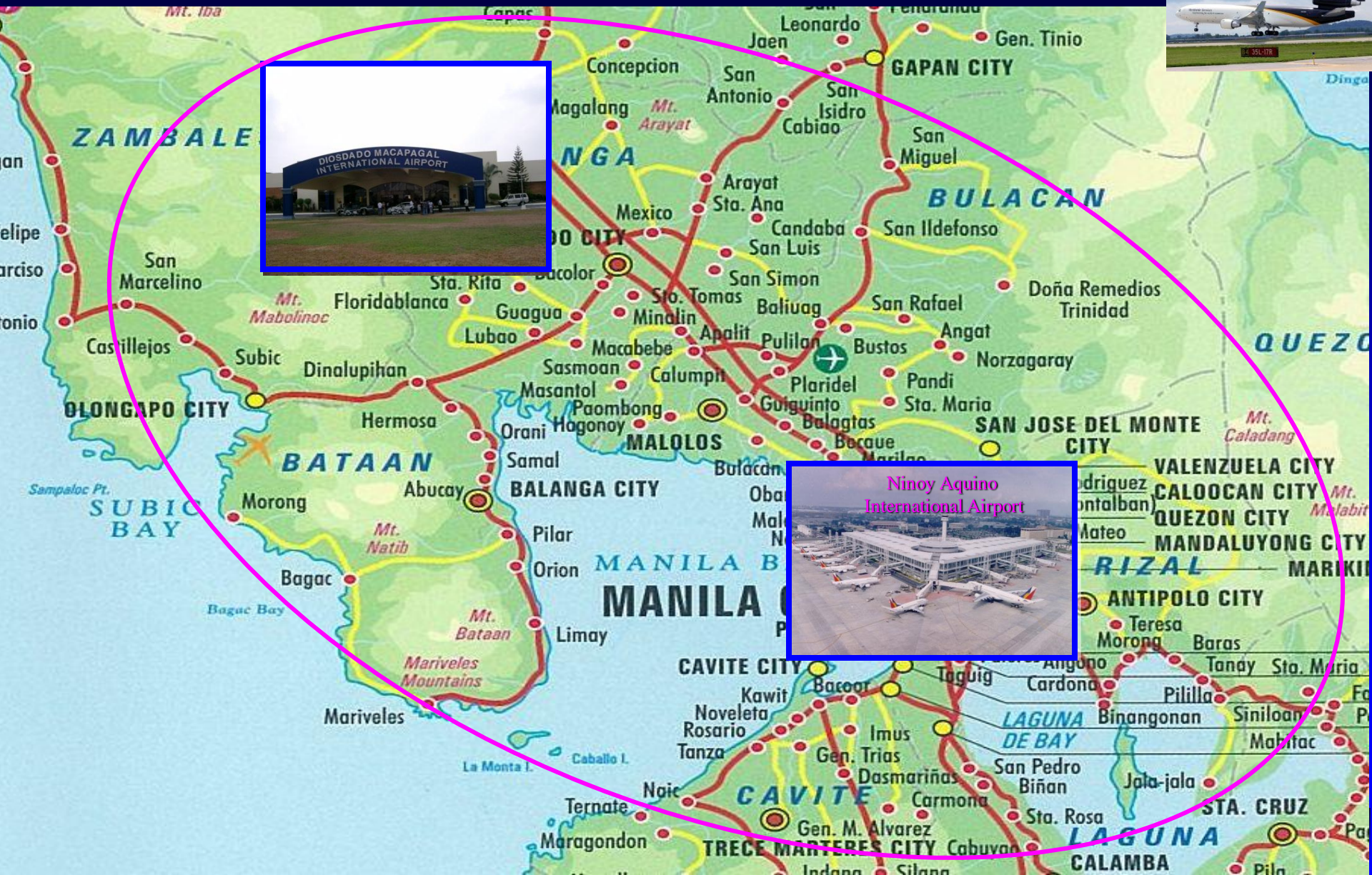






# Airports Development Initiatives

## GCR Airport Development Project







# Airports Development Initiatives

## Ninoy Aquino International Airport Development



**Scope:** Upgrading and Rehabilitation (Retrofitting) of NAIA Terminal-1

**Cost:** ₱1.6 Billion

**Status:** Procurement of Engineering Services on-going

**Scope:** Upgrading and Rehabilitation of NAIA Terminal-3

**Cost:** ₱1.8 Billion

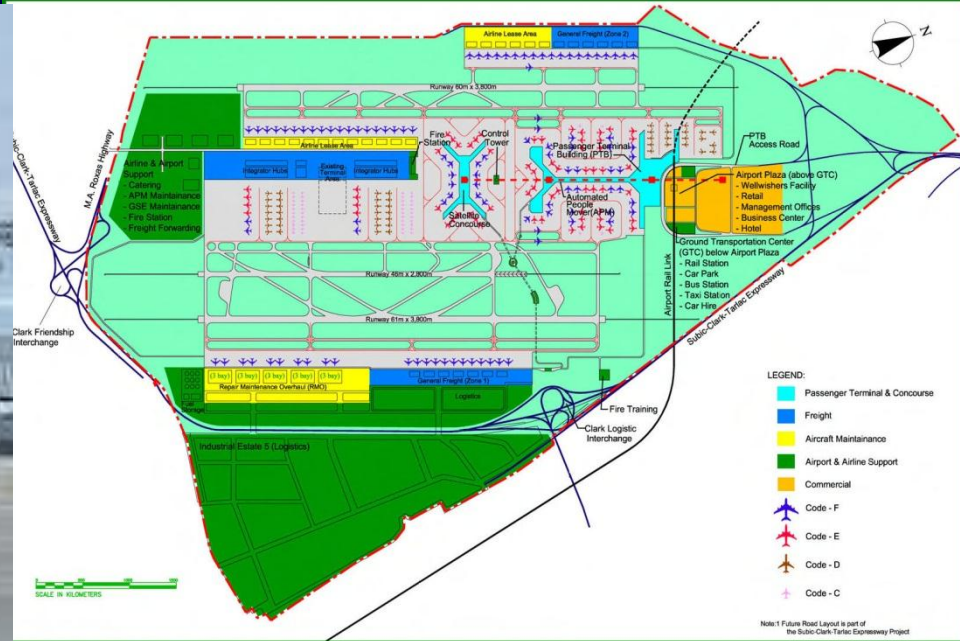
**Status:** Completion Work Agreement signed





# New Development initiatives Airports

## Clark International Airport Development Project



Expansion of Passenger Terminal Bldg  
Construction of LCC Terminal

Aeroport de Paris (ADPi) is currently  
Conducting the study and the DE.

Transaction Advisor will be commissioned  
For the Full Development

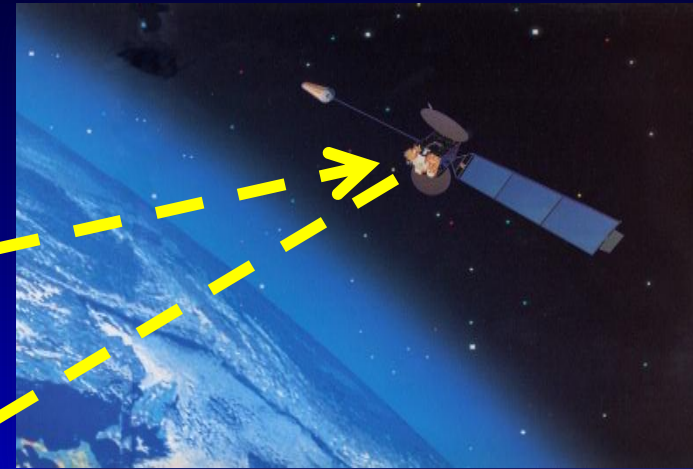




# Enhancing the safety of Air Navigation

## CNS/ATM Systems Development Project

**Communications**  
**Navigation**  
**Surveillance**



**Air**  
**Traffic**  
**Management**



# Urban Railway Improvement

**Project Name:** Automatic Fare Collection System

**Description:**

Procurement of Interoperable contactless automatic fare collection System based on smart card technology to replace the existing magnetic stripe-based ticketing system to allow seamless travel for the three lines (LRT-1, LRT-2 and MRT-3)

**Project Cost:** P1.72 Billion

**Implementation Mode:** Public-Private Partnership (PPP)

**Status:**

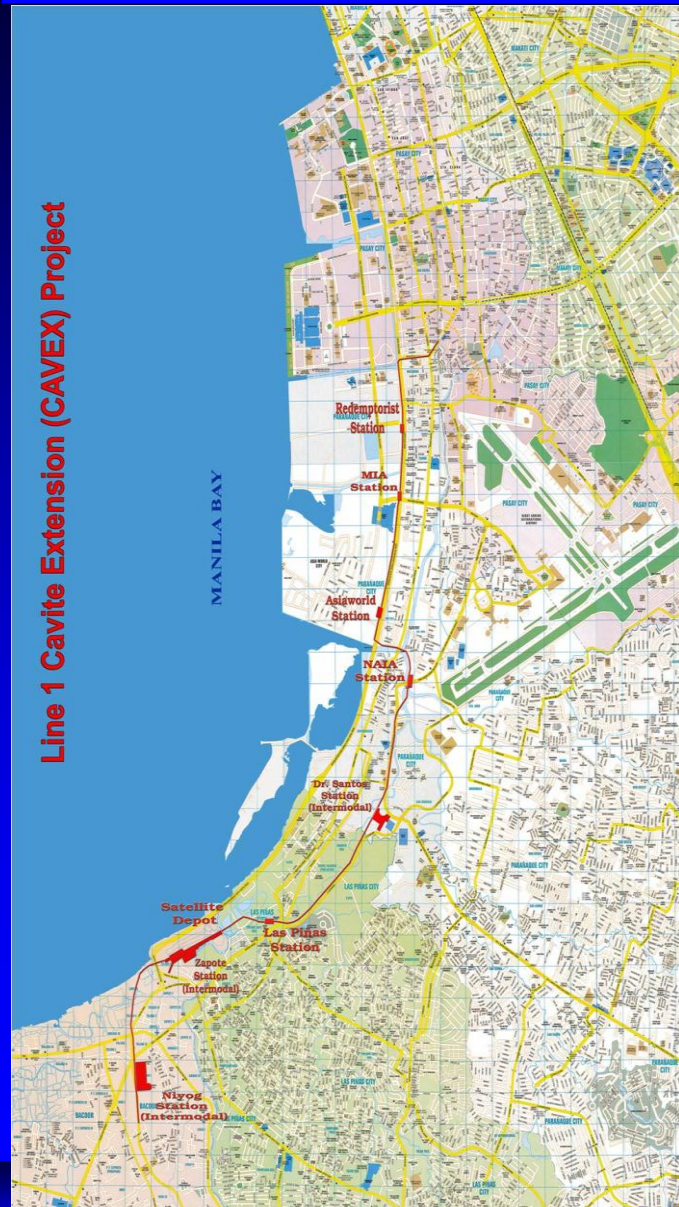
Contract awarded to AF Consortium (Ayala/MPIC) on 30 January 2014





# Urban Railway Improvement

## Line 1 Cavite Extension (CAVEX) Project



**Project Name:** LRT Line-1 Extension, O & M

### Description:

O & M of the existing system; Design, procurement, eng'g, construction, installation, completion, testing, and commissioning of the Cavite extension facilities; Integration of the existing system and the Cavite extension facilities; O & M of the Integrated System; System Enhancement Works covering whole-of-life investment for the Integrated System.

DOTC & LRTA will undertake complementary projects to promote viability & sustainability of the system (new rolling stock, depot devt, etc).

**Project Cost:** ₱59.20 Billion

**Implementation Mode:** PPP

### Status:

Procurement on-going. Submission of Bids by 28 April 2014.





# Urban Railway Improvement

## Project Name: LRT Line-2 East Extension

### Description:

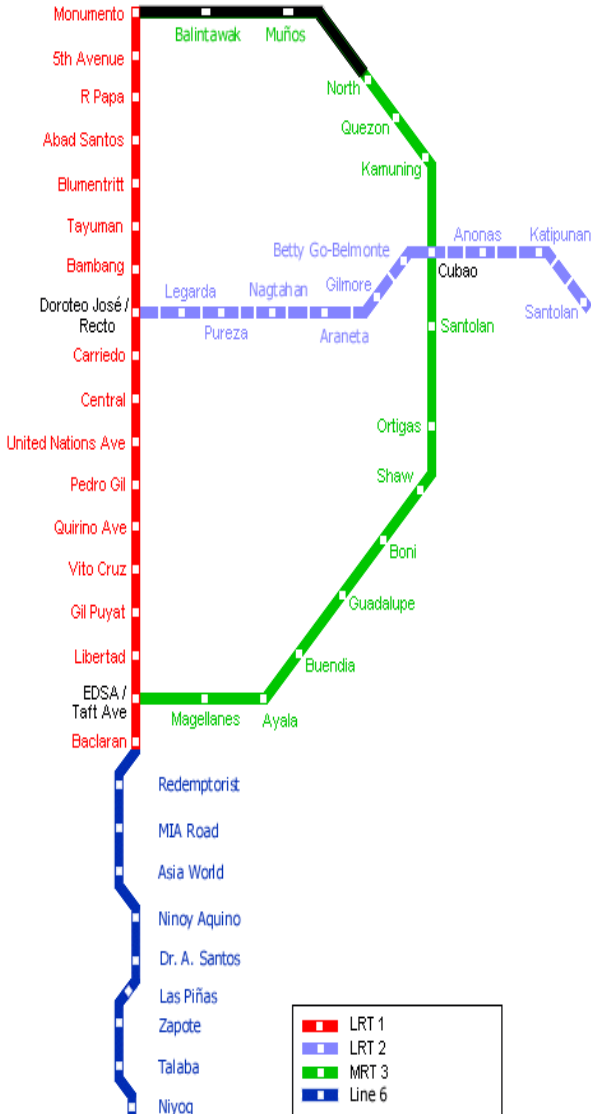
Construction of a 4.2 km elevated railway extension from Santolan Station to Masinag in Antipolo and two additional Stations. It is expected to attract 117,000 pax per day

**Project Cost:** ₱9.76 Billion

**Implementation Mode:** GOP

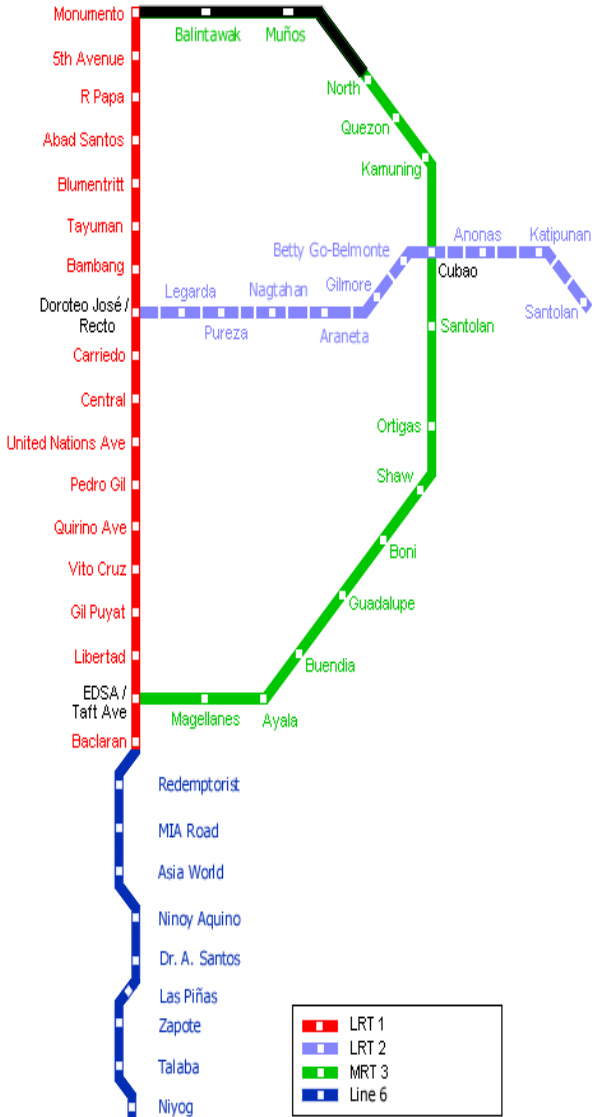
### Status:

Procurement of the Consultancy Services for Detailed Eng'g Design, Assistant in Tendering and Construction Supervision is currently on going





# Urban Railway Improvement



## Project Name: MRT Line-3 Capacity Expansion

### Description:

- Purchase of 48 Light Rail Vehicles (LRVs);
- Upgrade of Traction Power substations and signalling systems;
- Installation of additional stabling tracks and catenary systems in the depot; and
- Improvement of depot maintenance and workshops

**Project Cost:** ₱3.77 Billion

**Implementation Mode:** GOP

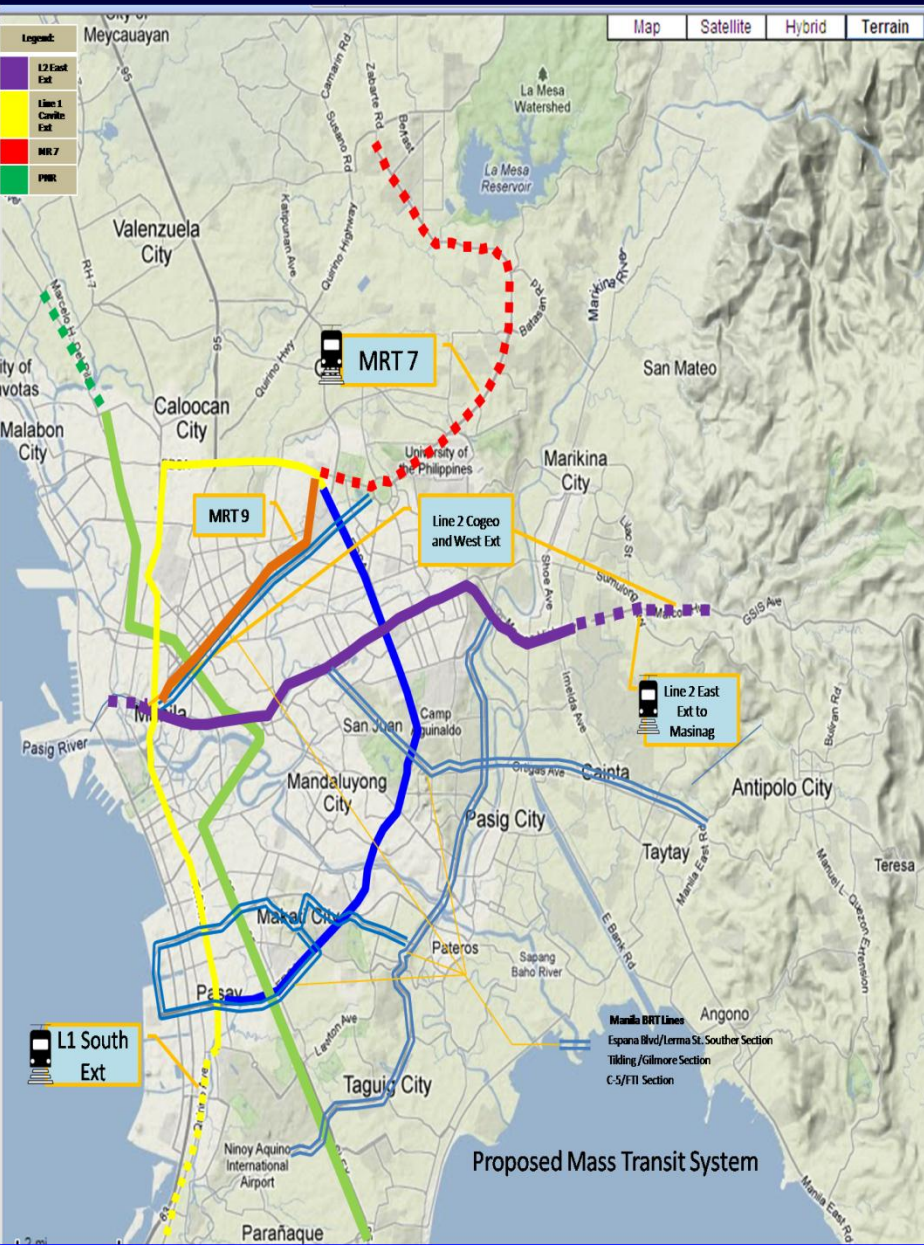
### Status:

Contract has been awarded to Dalian Locomotive & Rolling Stock Co.





# Urban Railway Improvement



**Project Name:** MRT Line-7

## Description:

Construction of a 23km mostly elevated railway with 14 stations from San Jose del Monte to MRT-3 North Ave.; 22km, 6-lane Asphalt Road from Bocaue Interchange of NLEX to Intermodal Terminal in Tala

**Project Cost:** US\$1.54 Billion

**Implementation Mode:** PPP

**Financing Structure being considered :**

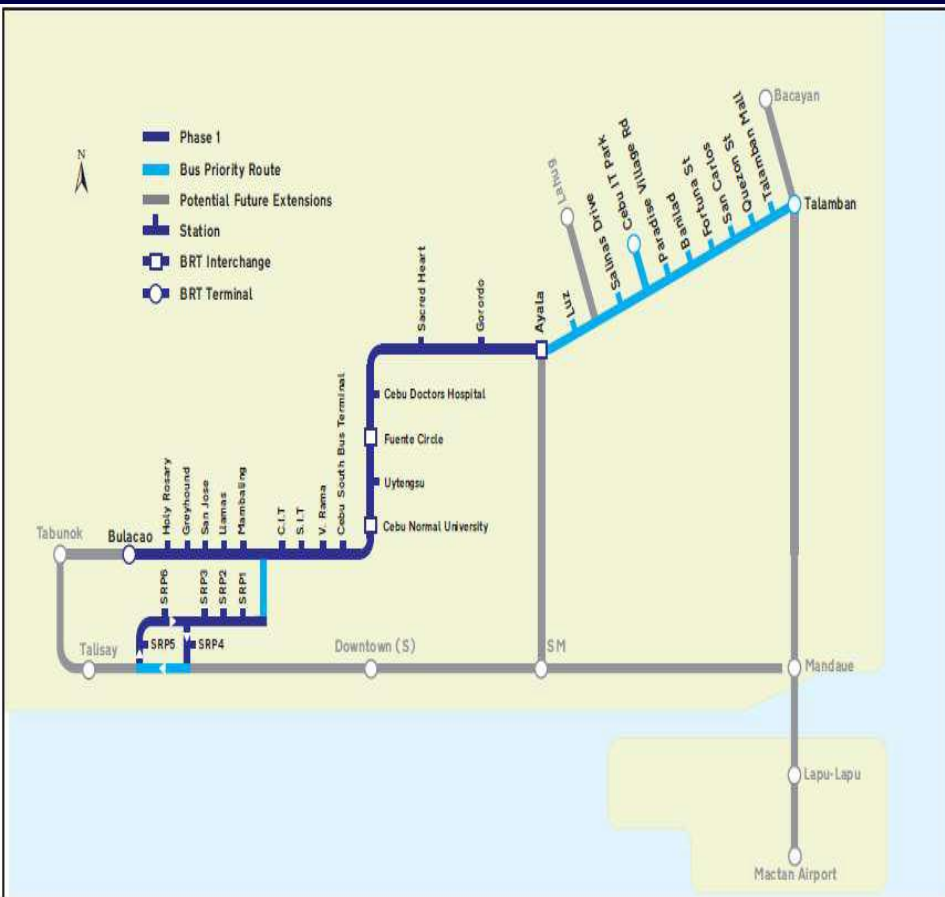
- JICA: 3.07% 14.5 years
- ADB: 5.65% 20 years
- Com: 6.65%

## Status:

Project was approved by NEDA Board on 21 Nov 2013. Signing of Implementation Guidelines is expected by 1<sup>st</sup> Quarter of 2014



# Urban Mass Transport System



**Project Name:**  
Cebu Bus Rapid Transit System

**Description:**  
Establishment of a High-Quality bus-based transit system over a 23 km corridor that traverses through Cebu City's CBD from Bulacao in the South west and Talamban in the North-east. It also involves construction of 33 Stations

**Project Cost:** ₱6.0 Billion

**Implementation Mode:** GOP

**Status:**  
Awaiting NEDA Board approval



# Proposed/Pipeline Transport Devt. Initiatives

**Project Name:** Airport Express Rail Link (MNL-Clark)

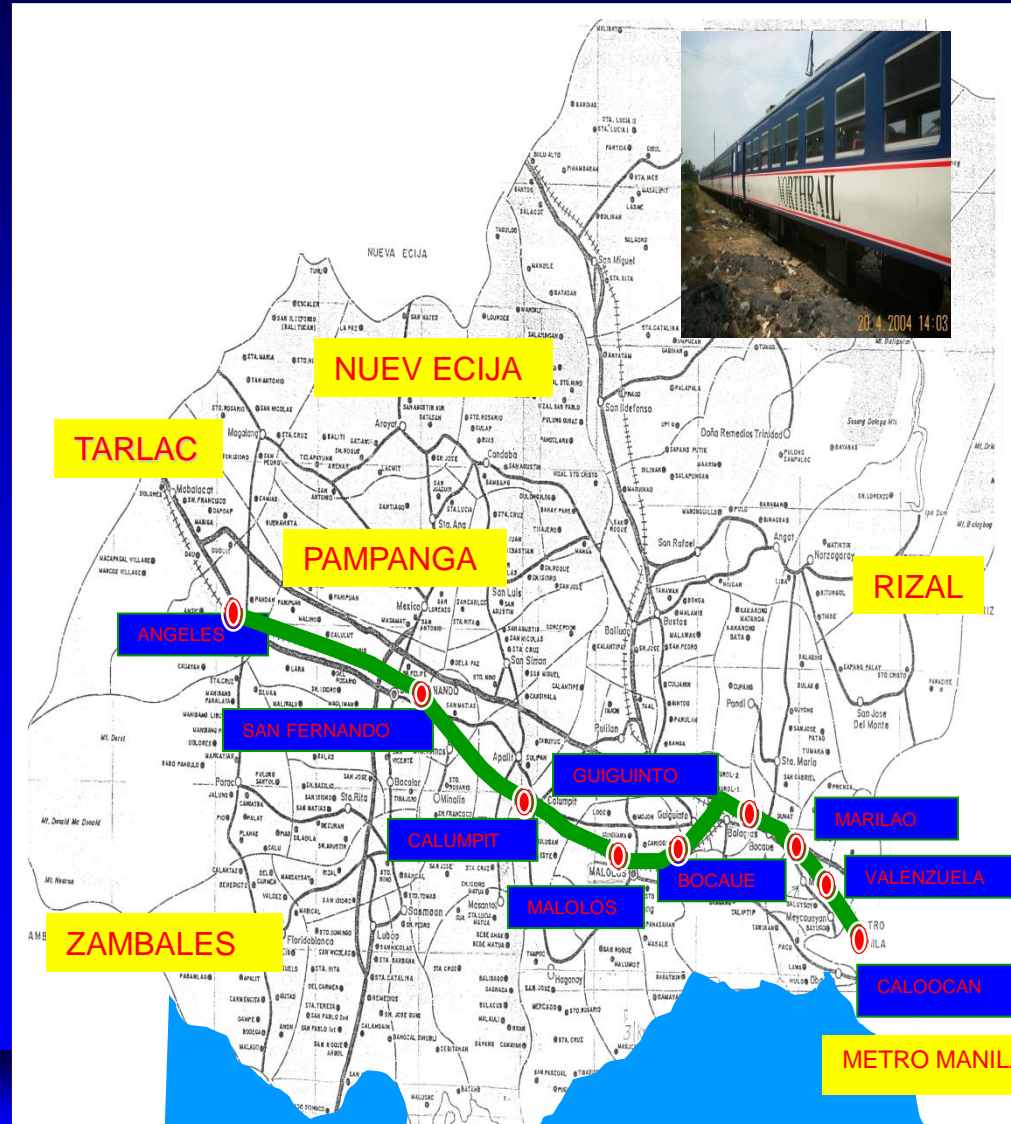
**Description:**

In line with the GCR Airport Strategy, develop an efficient rail-based access with a desirable travel time that will connect Clark International Airport to M. Manila. Phase-1: Manila to Malolos, (along existing PNR ROW which will be either elevated or at grade, Phase-2: Malolos to Clark

**Project Cost:** Still to be determined (TBD)

**Implementation Mode:** TBD

**Status:** Feasibility Study On-Going







# Proposed/Pipeline Transport Devt. Initiatives



## Project Name: Manila Bus Rapid Transit System

### Description:

Establishment of BRT System in the ff. Corridors:

- Ortigas – R5 (Line-2 – Ortigas – Taytay)
- C5 (Commonwealth Ave – FTI)
- R7 (Lerma-Espana-Q. Ave.- Commonwealth Regalado)

*(Highly flexible to service the CBD's of Makati, Fort Bonifacio and Ortigas)*

**Project Cost:** ₱12.0 Billion (Indicative)

**Implementation Mode:** To be determined

### Status:

Feasibility Study commissioned by World Bank is on-going



# Continuing Dev't Initiatives in Airports

## Kalibo International Airport Development Project



- New Int'l Passenger Term. Bldg
- Upgrading of Runway & Taxiway
- Expansion of Apron
- ANF



# Other Initiatives





# Proposed/Pipeline Transport Devt. Initiatives

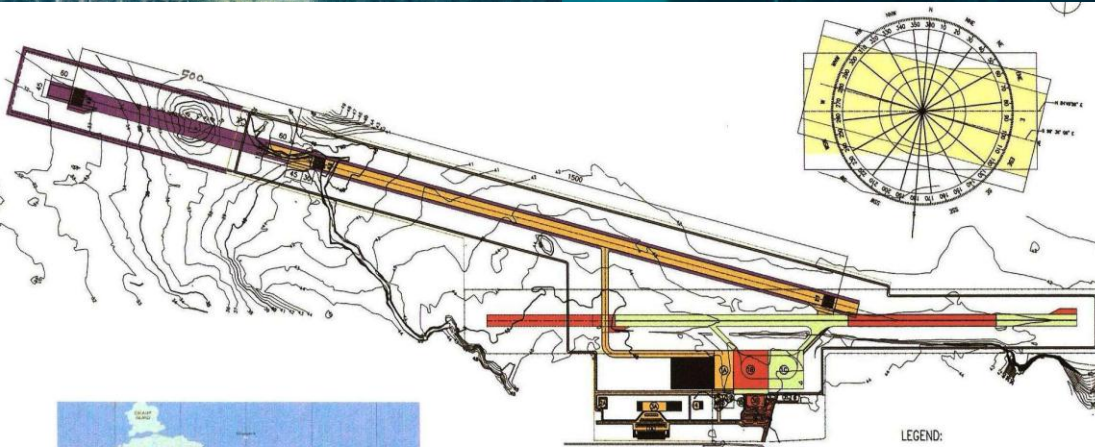


**Project Name:**  
Busuanga Airport Dev't Project

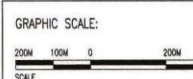
**Description:**  
Construction of a new airside facilities (runway, apron, taxiway, etc.), landside facilities (pax terminal, cargo terminal, etc.), ANF and AGL

**Project Cost:**  
₱4.0 Billion (Initial Estimate)  
**Implementation Mode:** GOP/ODA

**Status:**  
Updated study was recently submitted to NEDA



- LEGEND:**
- : PROPOSED LONG TERM DEVELOPMENT
  - : PROPOSED MEDIUM TERM DEVELOPMENT
  - : ON-GOING KOICA DEVELOPMENT WORK
  - : EXISTING
- |  |                                     |
|--|-------------------------------------|
| (1A) PROPOSED PASSENGER AIRCRAFT PARKING APRON         | (4) POWERHOUSE MAINTENANCE          |
| (1B) ON-GOING (KOICA) PASSENGER AIRCRAFT PARKING APRON | (5) CARDS MAKE-UP AREA              |
| (1C) EXISTING PASSENGER AIRCRAFT PARKING APRON         | (6) PROPOSED CARGO TERMINAL         |
| (2) PROPOSED CONTROL TOWER & FIRE STATION              | (7A) PROPOSED PARKING SPACE         |
| (2B) EXISTING FIRE STATION                             | (7B) ON-GOING (KOICA) PARKING SPACE |
| (3) EXISTING CONTROL TOWER                             | (8) ADMINISTRATION BUILDING         |
| (3A) PROPOSED PASSENGER TERMINAL BUILDING              | (9) POWER PLANT                     |
| (3B) ON-GOING (KOICA) PASSENGER TERMINAL BUILDING      |                                     |
| (3C) EXISTING PASSENGER TERMINAL BUILDING              |                                     |
- PROPOSED NEW PERIMETER FENCE  
--- EXISTING PERIMETER FENCE





# Proposed/Pipeline Transport Devt. Initiatives



**Project Name:** Central Spine RoRo Project

**Description:**

Development of national transport system that shall combine roll-on roll-off ferry port networks with envisaged development of national roads that will link Luzon to Mindanao through the islands of Mindoro, Panay, Negros Cebu, Bohol and Camiguin, etc.

**Project Cost:** ₱7.2 Billion (indicative cost)

**Implementation Mode:** To be determined

**Status:**

Pre-Feasibility Study Completed on Sept. 2013





# Proposed/Pipeline Transport Devt. Initiatives



**Project Name:** Davao (Sasa) Port Devt Project

**Description:**

Expansion of the existing port facilities and provision of additional cargo handling equipment. It will also include the management and operation of the port within the concession period.

**Project Cost:** ₱4.046 Billion (development cost)  
(initial estimate)

**Implementation Mode:** PPP

**Status:**

Finalization of Business Case by the Transaction Advisory Consultant is on going



THANK YOU!!!!