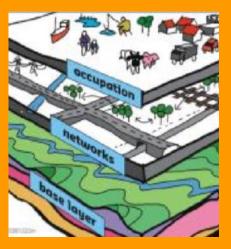
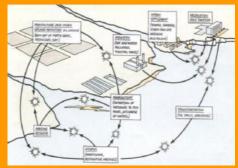


MBSDMP – Background and Overview



Manila Bay Sustainable Development Master Plan (MBSDMP)





November 21 2018, LCP Board Meeting Cebu







and
Joint Venture of:

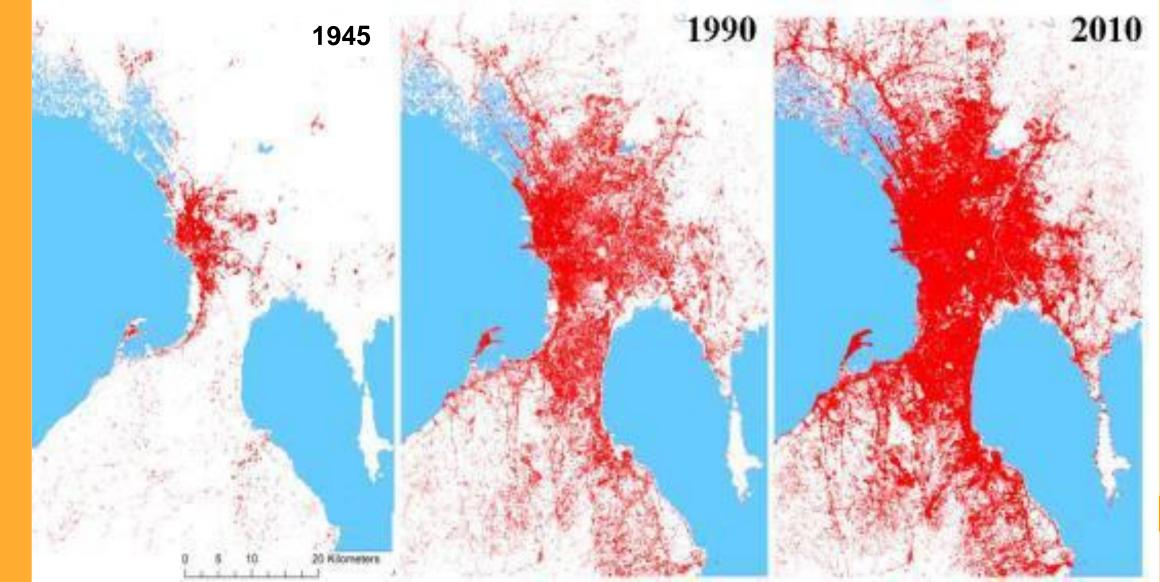








Manila is changing...

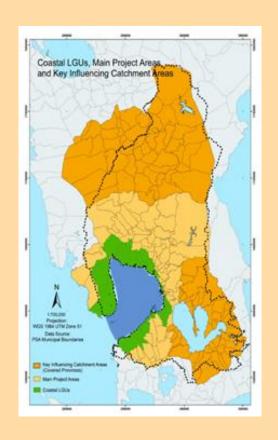




Master Planning Framework

The MBSDMP approach aims to make use of solicited private sector investments to achieve strategic management and development goals for:

- inclusive growth,
- ecosystem protection,
- climate change adaptation
- disaster risk reduction,
- water quality improvement and
- upgrading informal settlements.









Enabling Delta Life





Search ...

SPEECH OF SECRETARY PERNIA DURING THE MOU SIGNING BETWEEN THE PHILIPPINES AND THE KINGDOM OF NETHERLANDS ON MANILA BAY DEVELOPMENT

Home > Headlines media releases News Speeches > Speech of Secretary Pernia during the MOU Signing between the Philippines and the Kingdom of Netherlands on Manila Bay Development



Project Management Structure

Steering Committee
(INFRACOM-TB)

Technical Committee
(Government-led with various Stakeholders)

Dutch Expert Team
(Nominated by the Dutch Gov't.)

Local Consulting Firm
(Winning Bidder)

LCF

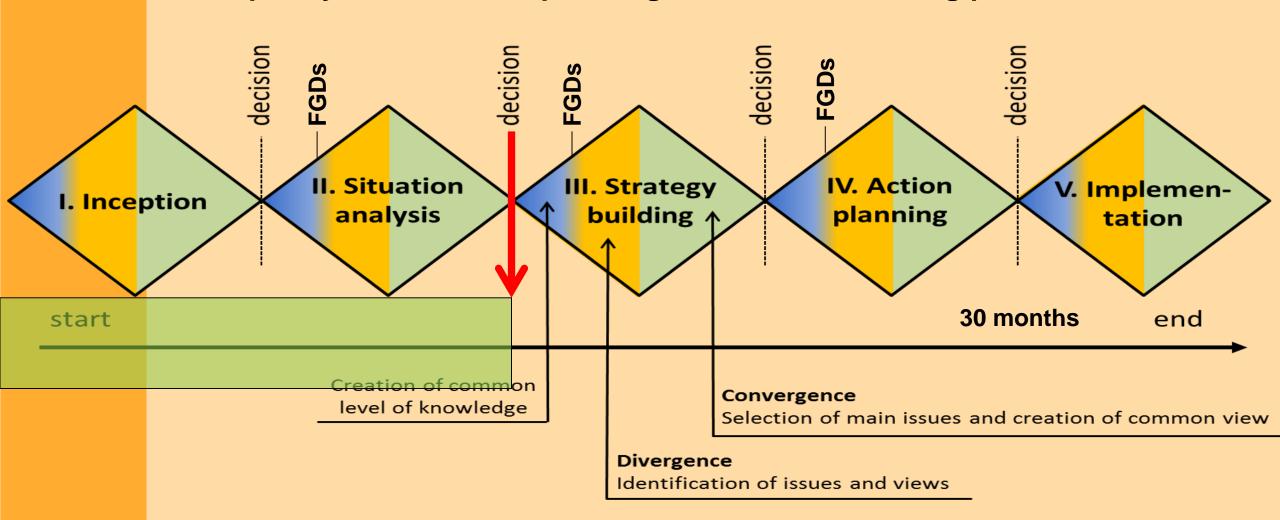
Project Management Structure for the Formulation of the MBSDMP

- Client: NEDA National Economic and Development Agency
- Advisory Board will review the outputs of the DET and the LCF.
- The Steering Committee, comprised of the members of the NEDA Board Committee on Infrastructure – Technical Board (INFRACOM-TB) and supported by the INFRACOM Secretariat, shall provide guidance to the DET and the LCF as necessary
- Technical Committee is composed of various stakeholders (including representatives from NGAs such as the mandamus agencies; LGUs; representatives from the affected Bay areas as well as representatives from the Dutch Government) - tasked to review activities for the undertaking and endorse as needed, inputs from the DET and/or LCF to the Steering Committee for approval.
- The members are (high-level) representatives (champions) of their organizations and should also actively coordinate together to include and align their sectoral plans with MBSDMP.



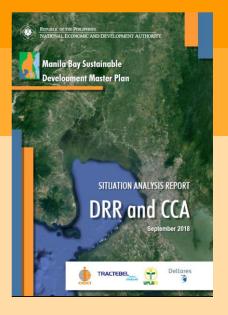
Philippine IWRM planning guidelines

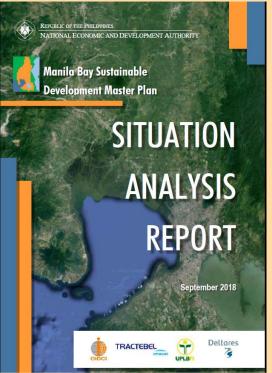
Participatory and informed planning and decision making process







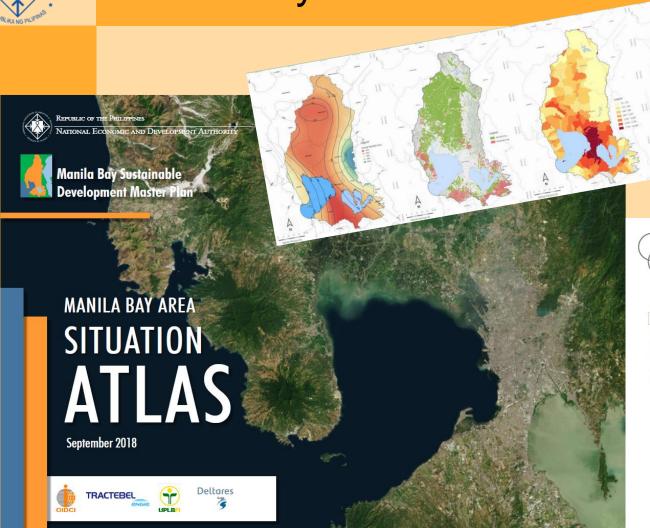








Manila Bay Situation Atlas





on and Demography

Settlements

1000

Economics

Livelihood and Income

Social Services

Culture and Historical

The overall distribution

pattern of settlements in the Manila Bay Area (MBA) may be observed through information on the number and location of occupied housing units provided in the census reports of the PSA.

CENSUS TEPDOTS Of the PSA.
Across administrative regions, he number of occupied housing unto in the NCR had been consistently more than those in housing unto in the NCR accounted for about \$5% of the btall in the MBA. It is notable that the NCRT is proportionate share of occupied housing unto in the MBAID Sky Ares had been reclused from more than \$6% in 1000. This prime as dispersal of reclusive from more than \$6% in 1000. This prime as dispersal of sports. All the NCRT is proportionated by the NCRT is notable to the NCRT in 1000. This prime is a dispersal of sports.

The number of occupied housing units in the Manila Bay Area had been increasing at a rate of about 3.8% per annum from 1990 to 2015. Region IV-A had the fastest growth refa at about 6.1% while that of Region III was estimated at 3.3%. These two regions give faster than NCRS 2.9% in the same period which accounted for the reduced share of the latter in terms of total occupied housing units in the Manila Bay Area.

Settlement

Occupied Housing Units

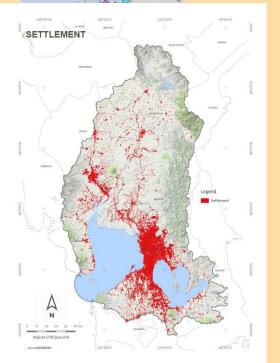
The distribution of the total number of housing units illustrates centrality towards NCR and where Quezon City, City of Marnils, and Caloocan City had the most numbers. Outside of NCR he cities with greater numbers of occupied housing units include Antipolo in Rizal, and Dasmariñas and Bascor in Cavite.

The precommant type of nousing in the MBA is the single house type. Even within NGT, such type accounted for 57% of the type of the type of the type accounted for 57% of the GMP, Proportions are far greater in areas outside of NGT which can reach to as high as 95% in Capas, Tarlica and in Glumba, Nuevas Ecja, If may be observed that the single type is the preferred housing of choice which contributes to the expansive growth of settlements across the Willow.

Informal Settler Families

The number of Informal Settler Families (ISFs) in the NOR in 2014 was reported to be more than 60,000 accounting for 2014 was reported to be more than 60,000 accounting for about 99% of the total in the country, in Regions IV.A and III, these were estimated to be more than 14,000 and 62,000 respectively. On a country-wise basis which could be said as preparentative of the stustion in these there regions in the MBA. 01% were reported to be living in danger areas, 20% in privatelyconnect lasts, and 15% in government-convect lands.

As of the 2rd quarter of 2018, the DILG reported that there were nearly 250 000 ISFs living in danger areas in cities and

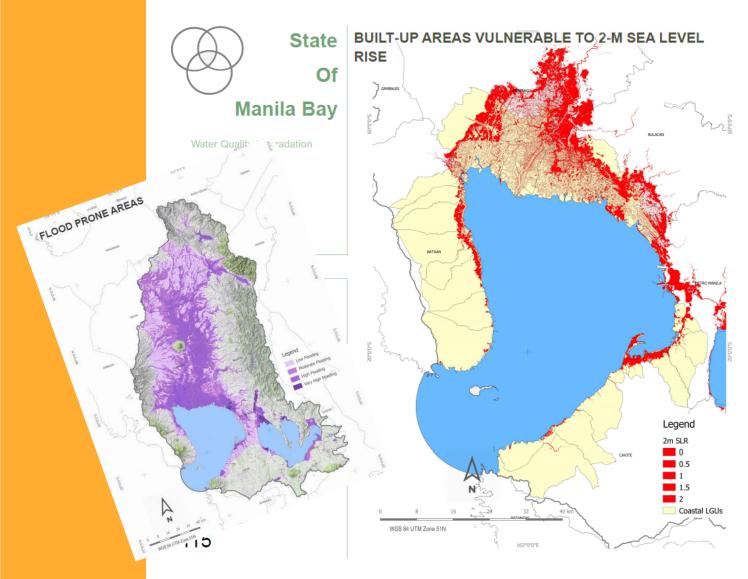




Manila Bay Situation Analysis



Manila Bay Area – a vulnerable place



Saltwater Intrusion

Saltwater intrusion in Manila Bay is caused mainly by groundwater withdrawal. Saline water has moved considerably inland especially along the coasts of Gavite, Metro Manila, Bulacan and Pampanga as shown in the Saltwater Intrusion Mapand is associated with the proliferation of wells that are used to extract groundwater for irrigation purposes. In the future saltwater intrusion is likely to mover further inland if current rate of groundwater withdrawal continues and if sea level rise increases due to projected warming of temperature.

Earthquake

The Manila Bay Area like most other regions in the country is exposed to earthquakes that cause ground shaking, tsunami, and liquefaction damages to residential and business structures, roads and other infrastructures, and cause injuries and fatalities among the vulnerable people. Earthquake modeling for Metro Manila projects substantial risks to the region particularly from the Marikina Valley Fault System and the West Valley Fault. Modeled earthquake scenario with a Magnitude 7.2 intensity event is projected to result to over 37.000 fatalities, and 605.000 injuries with total cost of damages of up to 2.5 trillion pesos (Bautista et al., Undated) and a Magnitude 8.5 event.

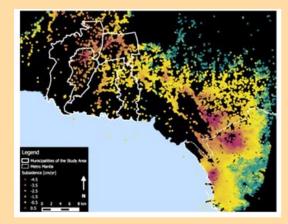
Tsunami

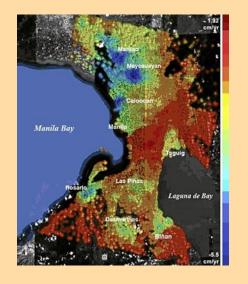
Based on historical records earthquake induced-Isunami is likely to happen in Manila Bay. In 1828 and 1863 2-m high bunamis hit the western coastline of the country including Metro Manila. Coastal LGUs of Cavite, Metro Manila, Bulacan and Pampanga is likely to be affected by bunami as shown in the Built-up Areas Vulnerable to Tsunami Map-Hardest hit LGUs likely include Novelata and Kawit in Cavite; Las Pinas, Malabon and Navotas in Metro Manila; Obando, Bulacan, Malolos, Hagonoy, and Paombong in Bulacan; and portion of Masantol Pampanga.

Ground Shaking

Coastal towns and cities in Metro Manila, Bulacan and Cavile along with inland LGUs in Rizal and Bulacan are most exposed to Magnitude 6.5 and 7.2 earthquake generated along the West Valley Fault. As shown in Map 8, the number of life threatening injuries is projected to be low along the coastal areas of Manila Bay compared to the higher projections in LGUs within the northeastern region of the MBA.

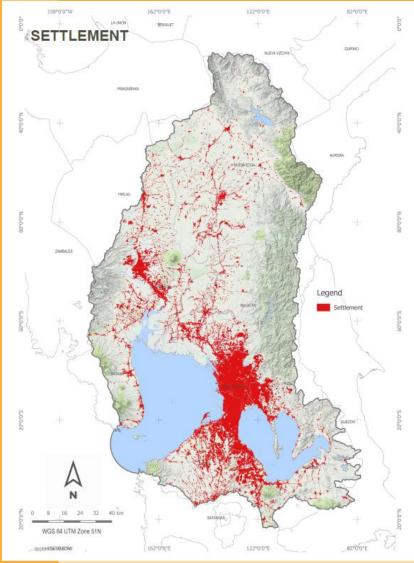
sinking

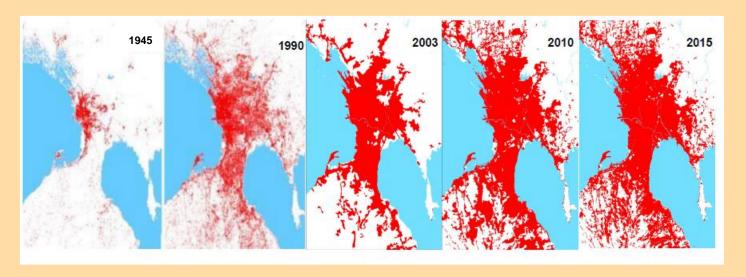


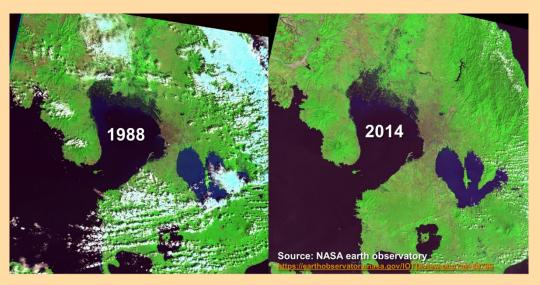




Activities and people everywhere...and changing...









Huge stakeholder interest

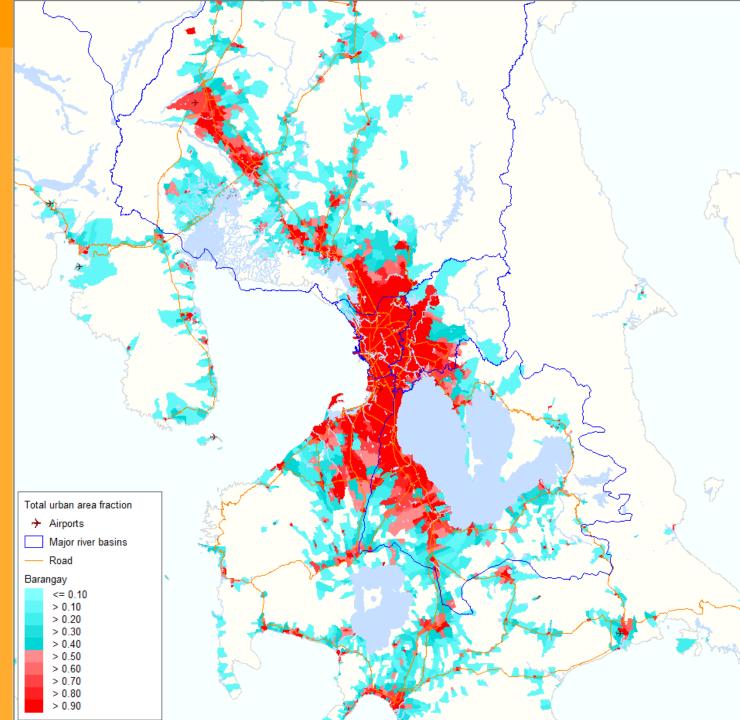








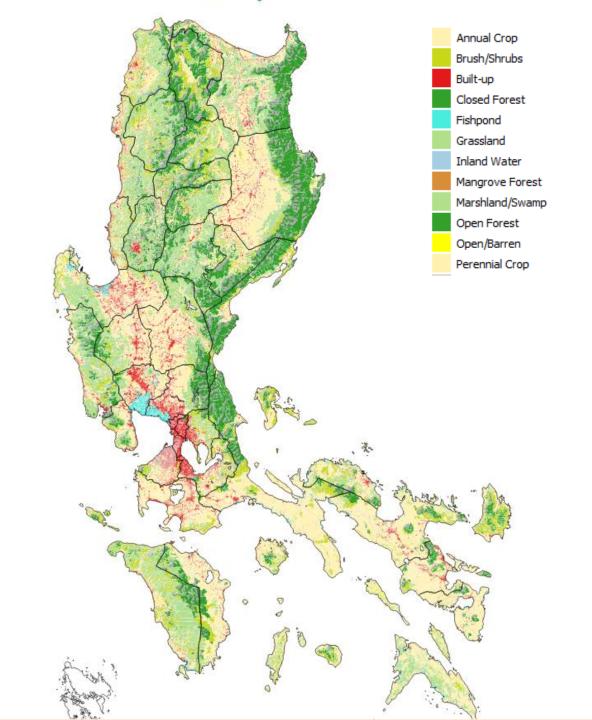
The urban area will double in 30 years 2015 - 2045





2015-2045 MB catchment Doubling of the urban area

- Top Priority
 - Manage the New Cities
 - Strict building codes
 - Solid waste, sewer, piped water
 - Avoid doubling the problem
- Fix the "current problems"
 - Solid waste
 - Waste water
 - Scale-up the management
 - Municipality associations





Stakeholder engagement

- Involve and empower
- Create ownership
- Achieve sustainability

a basis for the Master plan and SEA

Identify stakeholders

participatory methods

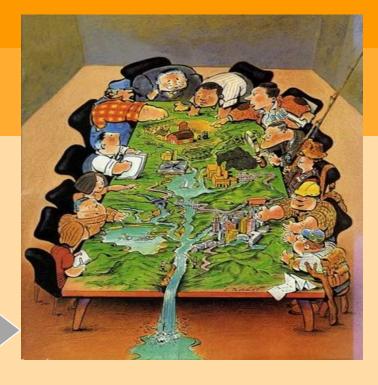
Activity/Discussion
Guides

Send out invitations

Confirm attendance

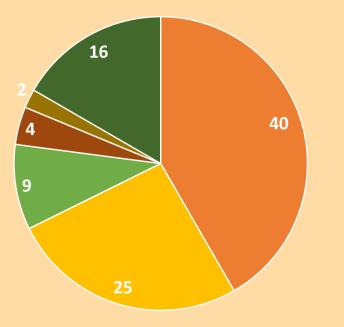
Conduct the activity

Integration in Situation Analysis



Number of Stakeholders engaged by category:

- National Government Agencies: 40
- Local Government Units: 25
- Non-Government Organizations: 9
- People's Organizations: 4
- Academic/Research Institutions: 2
- Private Sector: 16



- NationalGovernment
- Agencies
- Local Government Units
- Non-GovernmentOrganizations
- People's Organizations
- Academic/Research Institutions



League of Cities / VNG: expected results

- Local governments are recognized as key players. LCP important player.
- Inter-municipal cooperation is effective for voicing interests and/or the execution of projects aimed at the construction of infrastructure and actions aimed at preserving the natural conditions of Manila Bay
- Vertical cooperation required between municipalities, cities, provinces, regions and national government

- NEDA consultation sessions (next February 2019)
 - LCP/VNG Preparation sessions: coming January 2019



Thank you for your attention

