



STRATEGIES FOR SUSTAINABLE DEVELOPMENT IN METRO MANILA

UNDERSECRETARY CORAZON TECSON-JIMENEZ

METROPOLITAN MANILA DEVELOPMENT AUTHORITY
REPUBLIC OF THE PHILIPPINES

Metropolitan Manila Development Authority

MANDATE



- **METROPOLITAN MANILA** is a special development and administrative region subject to the direct supervision of the President
- MMDA was created to perform **planning, monitoring, coordinating, and implementing functions, and exercise regulatory and supervisory authority over delivery of metro-wide services**

METRO MANILA PROFILE:

Land Area	:	636 Km ²
City	:	16
Municipality	:	1

Rapid Growth and Urbanization:

11.8 Million (Night time population - Census 2010)

14.5 Million (Day time population - Estimated 2010)

18,553 population density (compared with the country's 308)



Philippines



Traffic Congestion

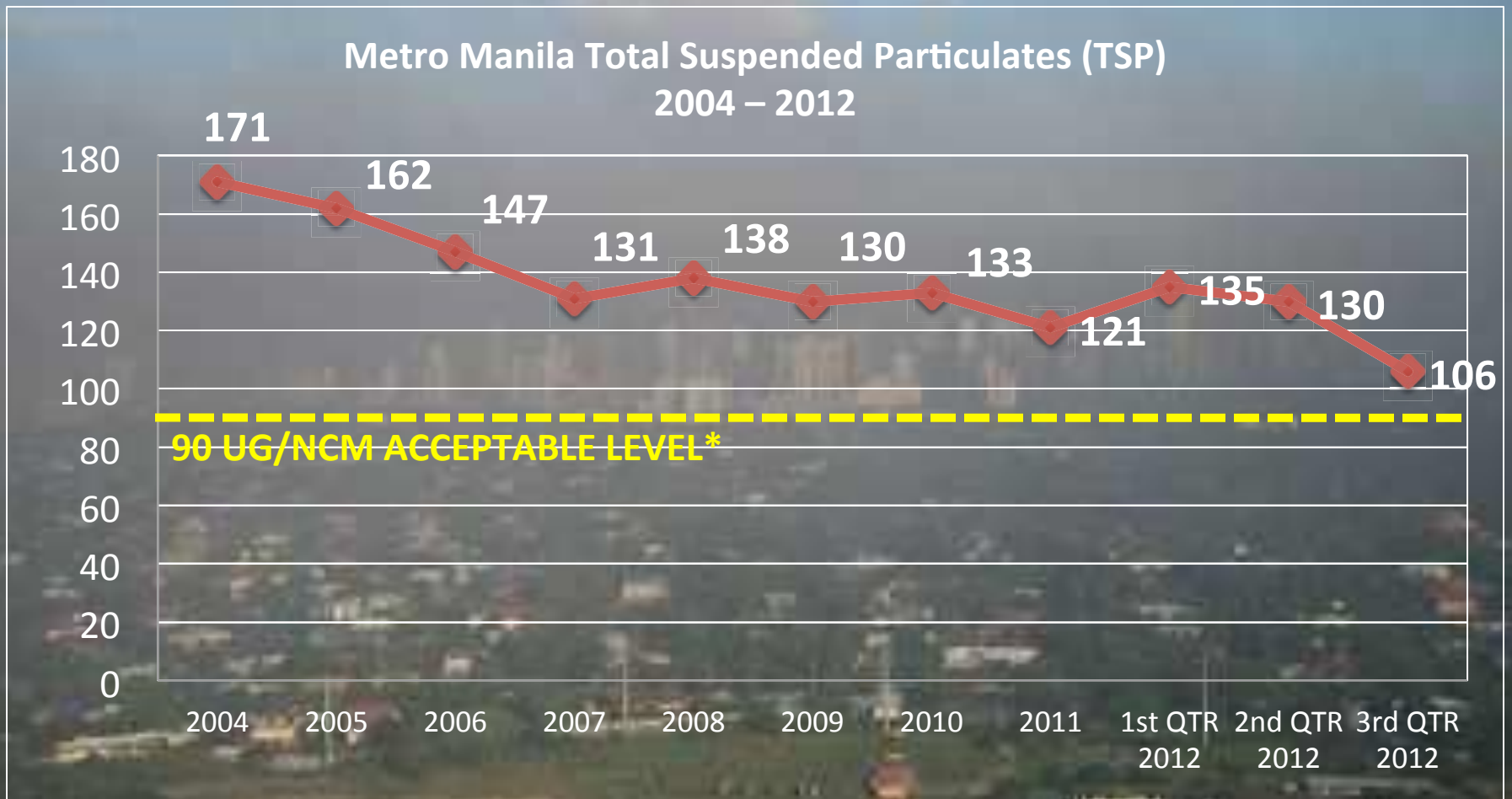
EDSA - 225,000 vehicles daily, including approximately 3,500 franchised buses and 1,500 illegal or unauthorized buses. However, EDSA has a only carrying capacity of 1,600 buses on a daily basis

(World Bank in 2009 entitled "Philippines: Epifanio De Los Santos Avenue (EDSA) Bus Reduction Project")



Air Pollution

106 $\mu\text{g}/\text{m}^3$ in terms of TSP (3rd Quarter 2012)



Source: Department of Environment and Natural Resources – Republic of the Philippines



Proliferation of Informal Settlement

**60,130 informal settler families living along waterways
in Metro Manila (June 2012)**

556,526 – total no. of informal settler families in Metro Manila (2010)

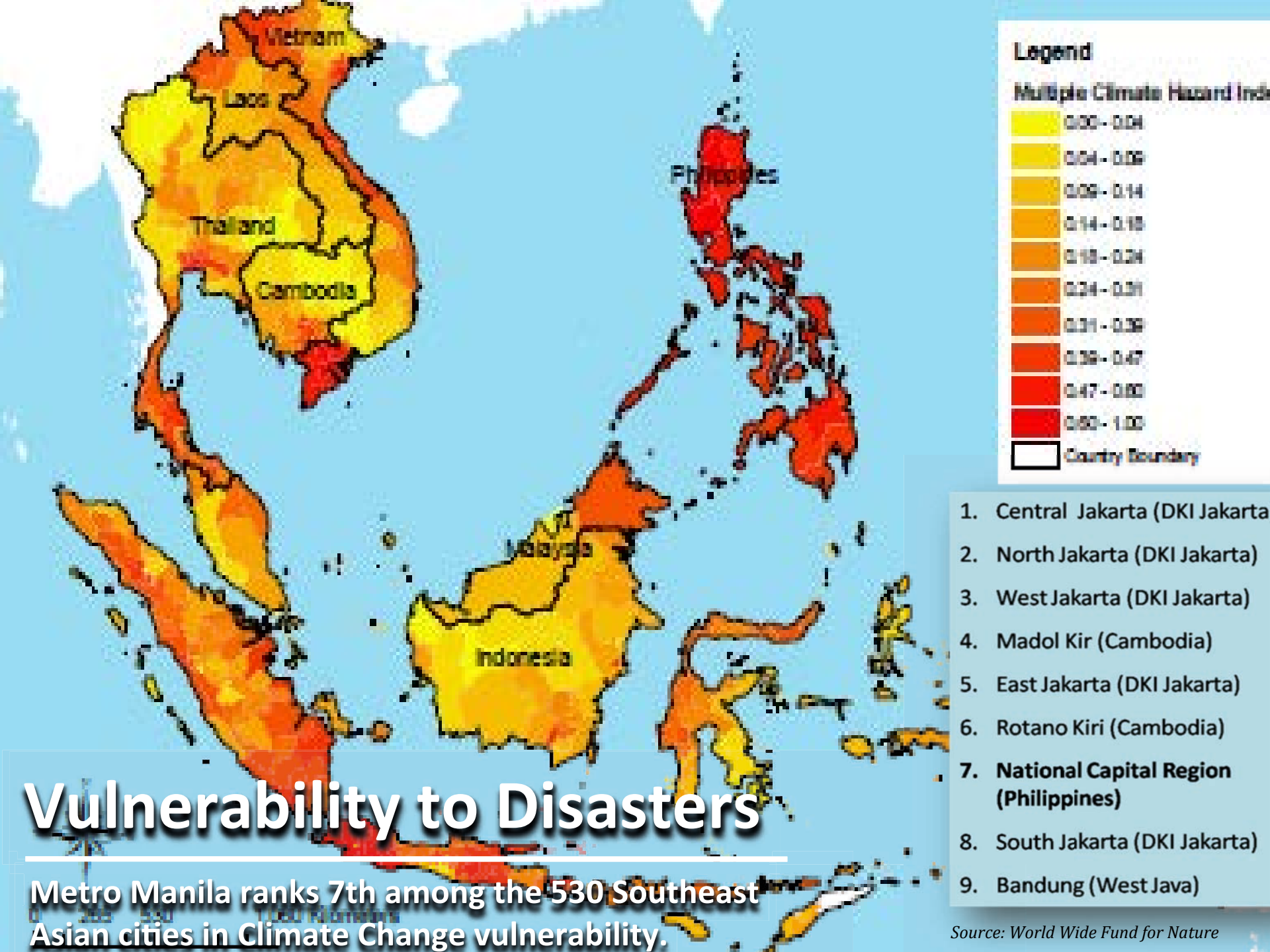
BEFORE



AFTER



**Indiscriminate Garbage Dumping and
Rapid Siltation**



Vulnerability to Disasters

Metro Manila ranks 7th among the 530 Southeast Asian cities in Climate Change vulnerability.

MMDA INITIATIVES

1. SUSTAINABLE DEVELOPMENT AND LONG TERM PLANNING
2. LOWERING GREEN HOUSE GASES EMISSIONS ESPECIALLY FROM THE TRANSPORT SECTOR
3. REDUCTION OF CARBON FOOTPRINT
4. LANDSCAPING AND TREE PLANTING
5. PROPER SOLID WASTE MANAGEMENT
6. DISASTER RESILIENCY

Sustainable Development Initiatives

Crafting of Greenprint 2030



METRO MANILA
GREENPRINT 2030
MY METRO. ONE STORY. OUR HOME.

A STRUCTURAL PLAN LINKING ALL METRO MANILA STAKEHOLDERS THROUGH A COMMON GOAL:

To create a Metro Manila that is inclusive and green-resource and time-conserving, recognizing residents' prioritized for livelihood, mobility & a liveable habitat they will nurture, cherish and call truly their own.



Cities Alliance
Cities Without Slums

OUR VISION :

“EDSA: THE URBAN GREENWAY OF METRO MANILA”



EDSA REGREENING PROJECT



EDSA RE-GREENING PROJECT



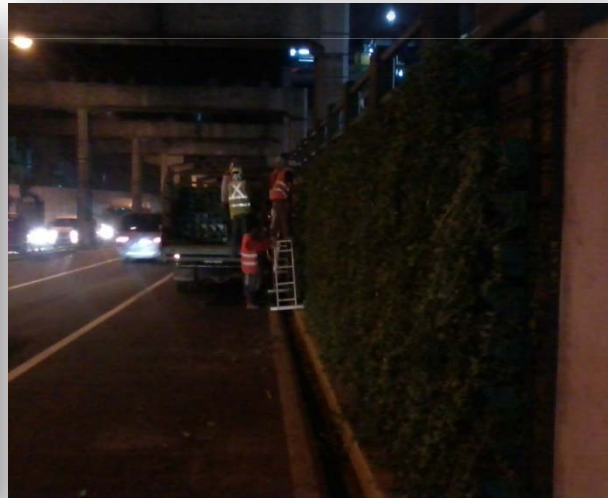
CONNECTED
URBAN GREENWAY



COMPLETED PROJECT: ROXAS BOULEVARD TO TRAMO



ON-GOING PROJECT: VERTICAL GARDEN ON EDSA TUNNELS



P. TUASON TUNNEL

SHAW BLVD. TUNNEL

AYALA TUNNEL

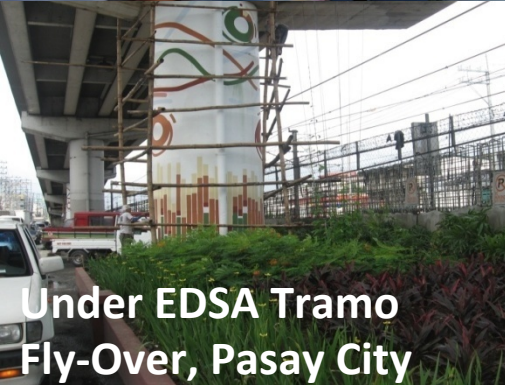
ON-GOING PROJECT: BOYSEN KNOX OUT PAINTING



San Lorenzo Village,
Makati City



EDSA MRT Taft Pasay
City



Under EDSA Tramo
Fly-Over, Pasay City



Cubao Underpass



Quezon Avenue Underpass



Ortigas Avenue

Location
Brgy. San Lorenzo to Mantrade bus stop, Southbound
EDSA-Ortigas Interchange pillars
Wall from Rockwell going to Buendia, Ayala, Southbound
LRT pillars from Monumento to Balintawak Cloverleaf to Muñoz
MRT Boni Ave. Station before reaching Guadalupe Bridge, Southbound
MRT Taft Station walls and cylindrical pillars of the Tramo flyover
MRT wall from GMA Kamuning Station to Quezon Avenue Station, Northbound
Both ends of Cubao-Aurora underpass

Use special type of paint that cleans toxins in the air as the active ingredient exploit sunlight to transform anti-poisonous substance, such as nitrogen oxide and carbon monoxide, into harmless residues easily washed away by water

Non-Motorized Transport : Bikelanes



Manila City Bikelane
(Remedios To M Adriatico St.)



Marcos Highway Bikelane



LEGEND:
① - PROPOSED ROADSIGN
② - PROPOSED CANTILEVER SIGNAGE

Roxas Boulevard.

Traffic Management Initiatives

Number coding scheme

ANNOUNCEMENT

UVVRP
(Number Coding in Effect)
NOVEMBER 15, 2010 MON.)

PRIVATE VEHICLES
7:00 A.M. TO 10:00 A.M.
3:00 P.M. TO 7:00 P.M.

PROVINCIAL / CITY BUSES
PUJs / TAXIS
7:00 A.M. TO 7:00 P.M.

MMDA



Reduction of 618 units or 18% less than the pre-UVVRP bus count.

MMDA CHILDREN'S ROAD SAFETY PARK





Anti-Smoke Belching Activities

Clean-up Initiative

Lingap sa Barangay

The program activities includes:

- **declogging of creeks, esteros and other waterways**
- **repair of manhole covers**
- **trimming and pruning of trees**
- **bundling of electrical wires and hanging cables**
- **garbage collection**
- **tree-planting**
- **misting operations**
- **Information dissemination campaign**
- **training on disaster awareness and preparedness.**





Clean-up Initiative
Esterio Blitz Clean-up Drive

ESTERO BLITZ 3N1



ESTERO DE LA REINA, TONDO, MANILA
2/7/2012

LINGAP SA BARANGAY



LINIS PALENGKE



MANDALUYONG PUBLIC MARKET II
February 14, 2014



April 12, 2013

Brgy. 310, Sta. Cruz Manila

BARANGAY POWER 2015

CATEGORY	BARANGAYS
CLEANEST WATERWAY	Barangays along the waterways or estero
BEST IN SOLID WASTE MANAGEMENT	Barangays implementing segregation and separate collection
BEST IN RECYCLING	Barangays implementing recycling/upcycling of recyclable materials
DENGUE-FREE BARANGAY	Barangays implementing dengue eradication programs

PRIZE: P 2 MILLION PER CATEGORY

Manila Bay Clean-up

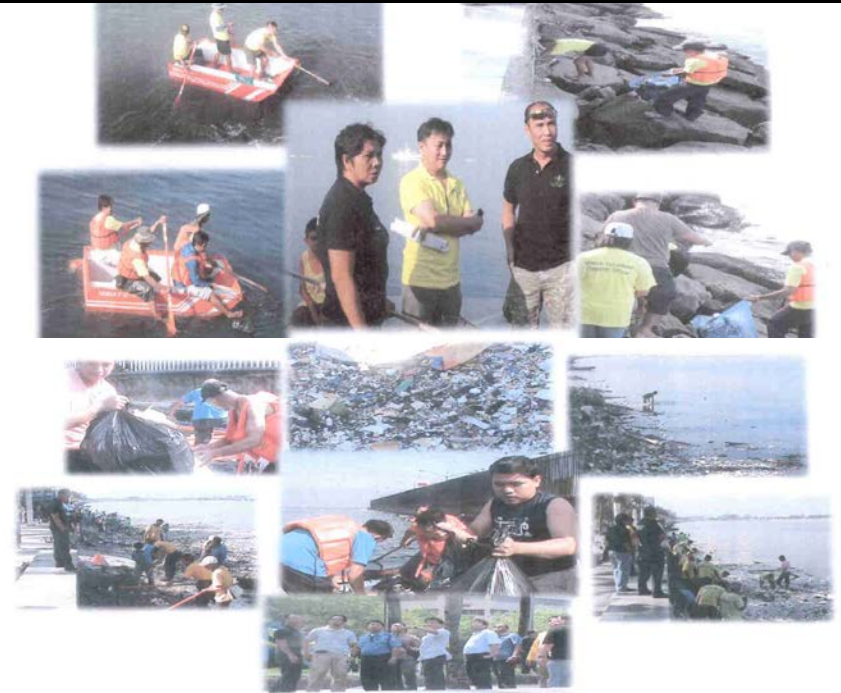
2010



2012



2011

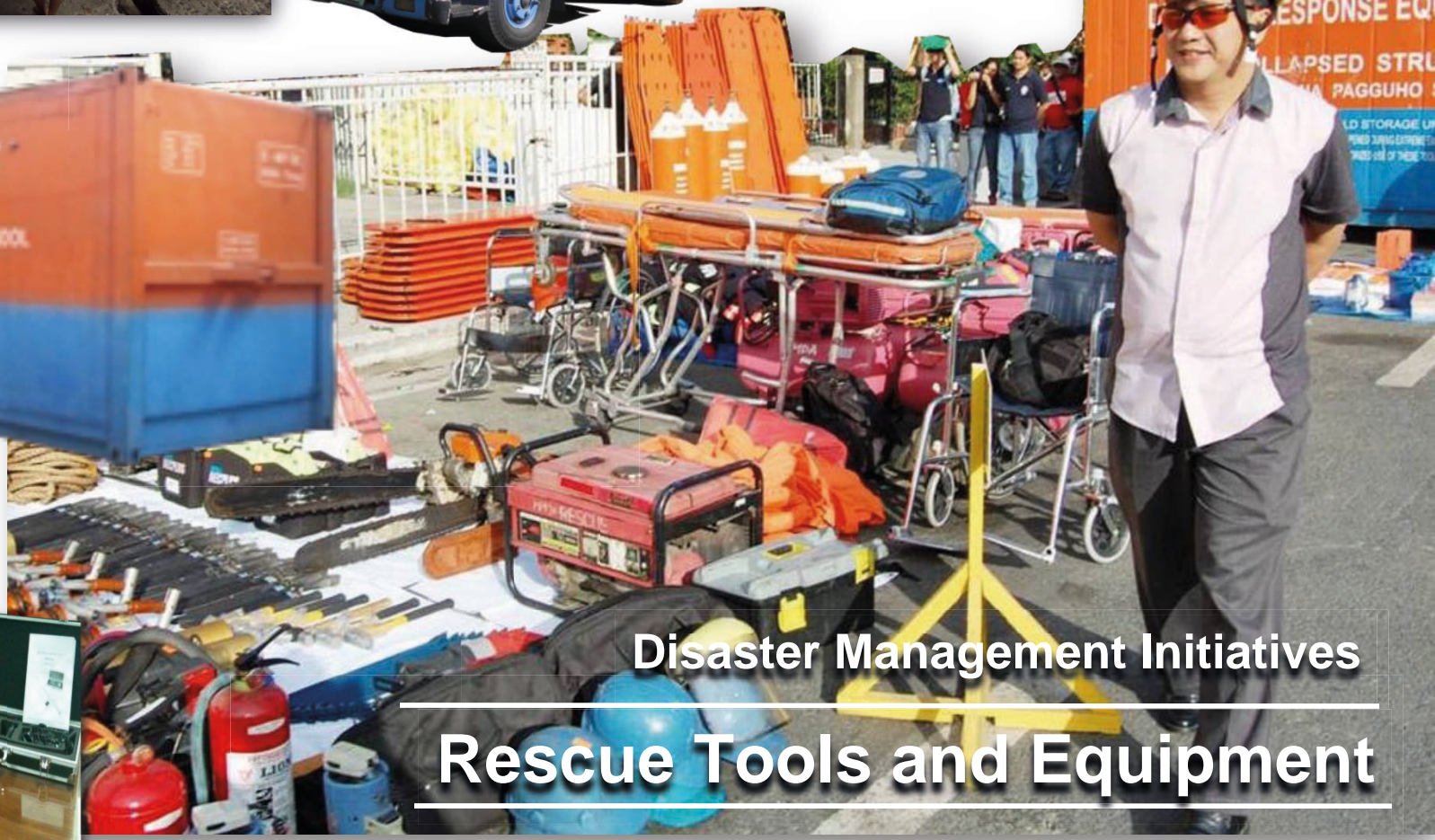


Environment Initiative

Informal Settler Families Resettlement



The resettlement of ISFs are pursued to help improve the environment in Metro Manila.



Disaster Management Initiatives

Rescue Tools and Equipment

Earthquake and
Landslide
Search
And
Rescue
Orientation
Course



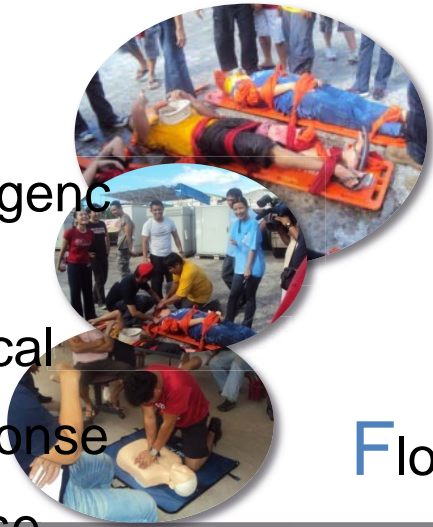
High Angle Rescue Training



Water
Search
And
Rescue



Basic
Emergency
Medical
Response
Course



Flood Incident Response Safety Training

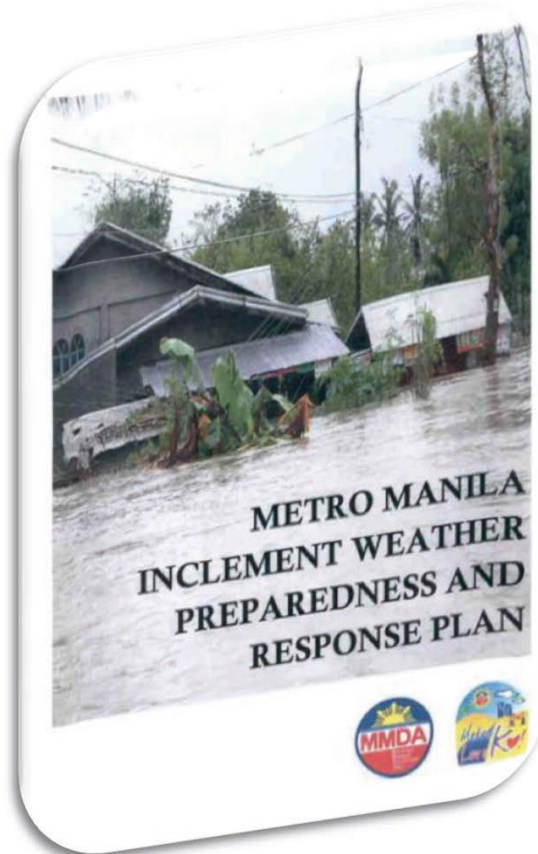
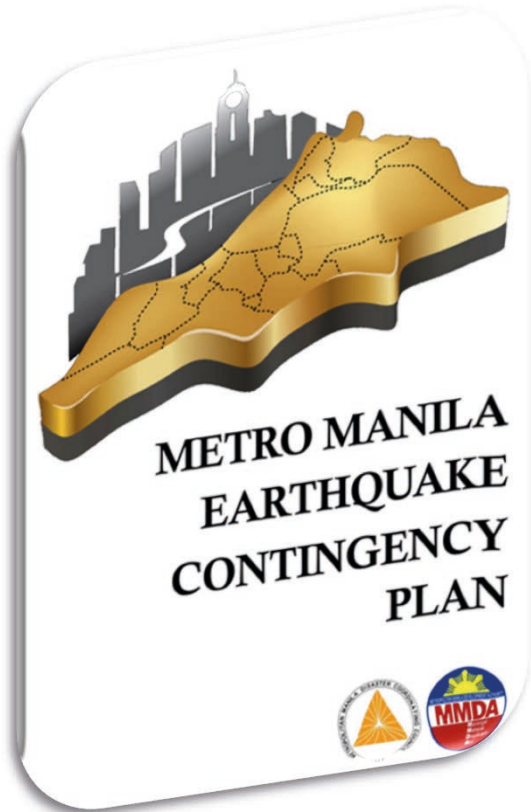


Capacity Building

Rescue And Life Saving Training

Disaster Management Initiative

Disaster Operation Plans



www.metromanilashakedrill.com

Metro Manila SHAKEDRILL 2015

July 30, 2015

www.metromanilashakedrill.com

Be Prepared.
Maging Handa.
Be Safe.

Be a part of the Earthquake Drill

Metrowide Day Drill

10:30 - 11:30 AM

Pasig City CBD Night Drill

7:30 - 8:30 PM

(Including schools, churches, businesses,
barangays, and government agencies)

Visit www.bepreparedmetromanila.com
for important information and resources
on earthquake preparedness
and response.

JOIN THE METRO MANILA RESCUE VOLUNTEER CORPS (MMRVC)

The 8,000-strong MMRVC will be trained and
activated for Metro Manila earthquake response.
Volunteers may sign up at www.bepreparedmetromanila.com



SHAKEDRILL

JULY 30, 2015

This will be the largest Earthquake Drill to be held in Metropolitan Manila which starts at
10:30 am. We are counting on your participation.

JOIN US

METRO MANILA
SHAKE DRILL

SIGN-UP

ABOUT THE DRILL

VIDEOS

Number of Participants:

- ✓ Organizations: 1,951
- ✓ Individuals: 1,079,047



GMMA READY Project

The Project aims to decrease the vulnerability of the Greater Metro Manila Area (GMMA) to natural hazards and increase its resilience, by strengthening the institutional capacities of the local government units, concerned national government agencies, academic institutions and civil society organizations to manage disaster and climate change risks.



LESSONS LEARNED

1. Development initiatives should be based on the principle of sustainable development and long-term planning
2. Partnership with other government and non-government agencies, the private sector and the community itself is critical.
3. Capacity building initiatives should focus on enhancing disaster resiliency and on addressing the impacts of climate change.

Thank you very much
Thank you very much



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