

REDUCING DISASTER RISKS IN METROPOLITAN MANILA

USEC. CORAZON T. JIMENEZ

General Manager, Metropolitan Manila Development Authority Metropolitan Manila, Philippines

METROPOLITAN SEOUL, SOUTH KOREA 8 October 2011

MANGA BAY **LAGUNA LAKE** Flood Prone Areas for 2: to 10-year flood quite Minards, 1984 DENSE (INSECTION) Floor Prove Areas adjacent to one

Flood Hazard Map of Metro Manila





IMPACT OF TROPICAL STORM "KETSANA" TO METRO MANILA

(26 SEPTEMBER 2009)



REACTING TO THE IMPACT...



... PREPARING AGAIN (1)

- EQUIPMENTREADINESS
- MMDA OPLAN
 "UNOS"
- DRAINAGEMAINTENANCE &CLEAN UP
- BARANGAYLINGAP PROJECT





... PREPARING AGAIN (2)

ESTERO BLITZ

- CLEANED 45 ESTEROS WITH ESTIMATED LENGTH OF 75,000 LINEAR METERS
- HAULED 7,383 M³ GARBAGE

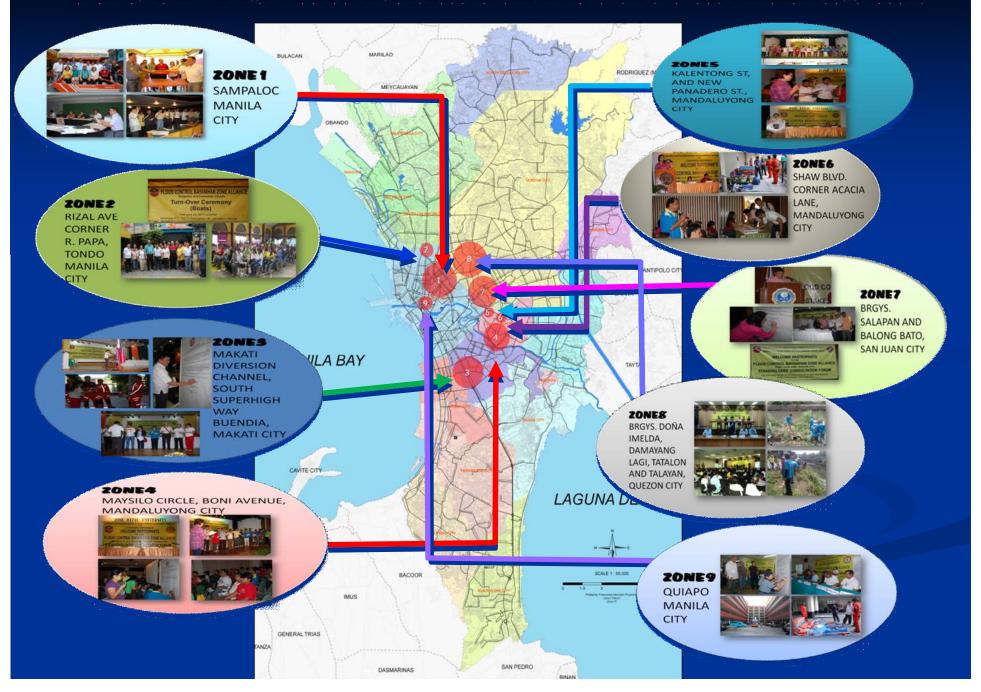




... PREPARING AGAIN (3)

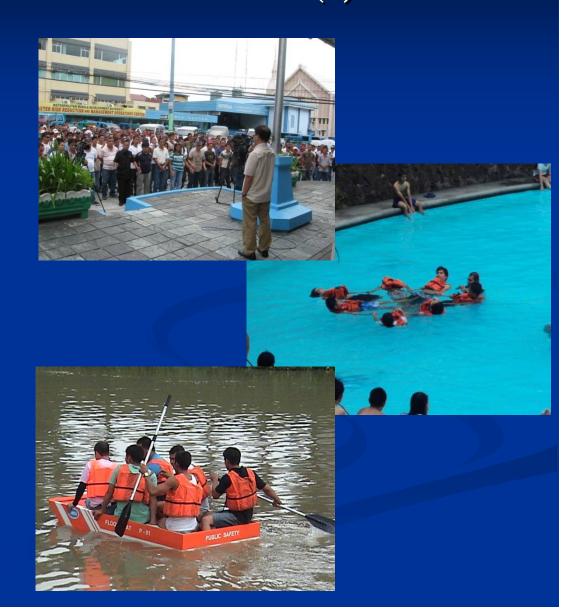


FLOOD CONTROL BAYANIHAN ZONE ALLIANCES



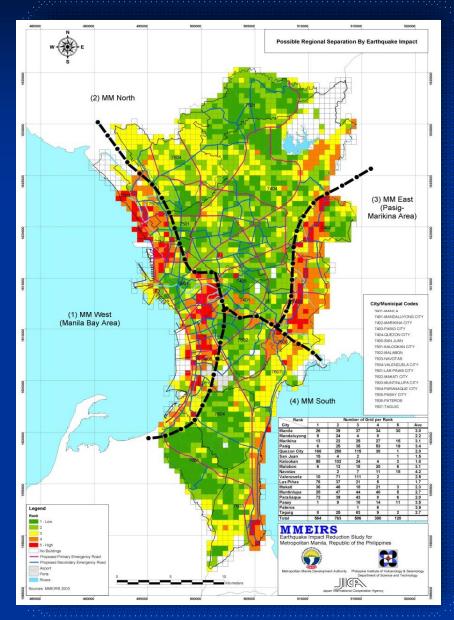
... PREPARING AGAIN (4)

- CALL FORVOLUNTEERS
- WATER SAFETY AWARENESS
- FLOOD RESPONSE TRAINING
- FABRICATION OF WOODEN BANCAS



IMMEDIATE FUTURE ACTIONS

- VOLUNTEER RECRUITMENT
- ORGANIZATION AND TRAINING ON EMERGENCY RESPONSE
- ACTION PLANNING
- DRILLS
- EVALUATION
- CORRECTION



METRO MANILA SCENARIO GIVEN A 7.2 MAGNITUDE EARTHQUAKE:

- **35,000** people may die
- **115,000** would be injured
- 170,000 residential structures will collapse
- 500 fires may break out and spread
- 10 25 % of government buildings will be damaged
- Some bridges may collapse
- Power, water, and telephone lines will be cut
- National socio-economic activities will be disrupted

11

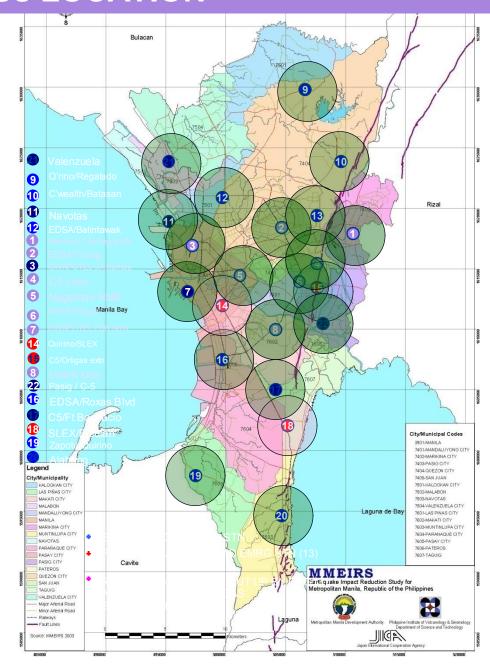
PRIORITY STRATEGIC APPROACH TO CONTEND WITH STRONG EARTHQUAKE

Focus Concept 1 – Strengthen Legal Framework and Institutional Capacity for Disaster Management	 Enhance Legal Basis and support Strengthen Institutional Capacity for Mitigation, Preparedness and Response as well as Inter-Institutional Coordination
Focus Concept 2 – Build Capacity for Relief and Recovery	 Enhance Emergency Health and Medical Response System Establish Emergency Transportation System Secure water source and supply
Focus Concept 3 – Strengthen Community Preparedness for Earthquakes	 Enhance self-reliance and mutual help for efficient risk management capacity Inculcate Disaster Mitigation Culture among populace
Focus Concept 4 – Reduce Seismic Dangers of Residential Structures	 Strengthen Building Structures Promote and Institute Fire Safety Promote and support further researches on seismic hazards and better building technology
Focus Concept 5 – Enhance National System to Become Resistant to Impact of Earthquakes	 Protect stability of government function and continuity of socio-economic systems

DREFTSUs LOCATION

THE DISASTER
RESPONSE EQUIPMENT
AND TOOLS FIELD
STORAGE UNITS OR
DRETFSUS ARE
DEPLOYED TO POINTS
NEAR THE HIGH RISK
AREAS TO GIVE EASY
ACCESS TO
COMMUNITIES.





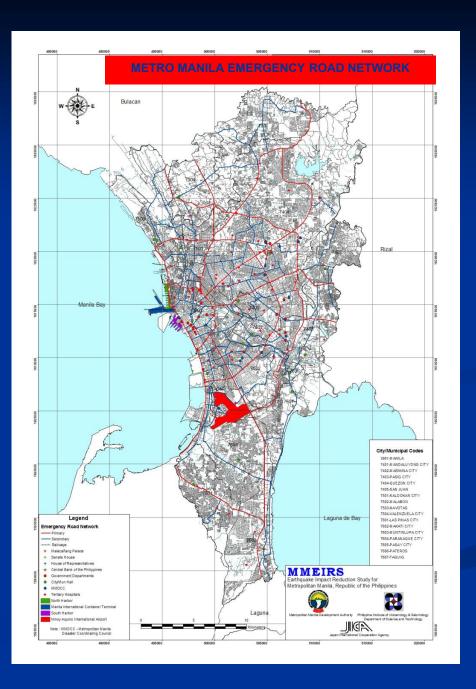
EARTHQUAKE SEARCH AND RESCUE TRAINING

DATABASE OF
TRAINED
PERSONNEL IS KEPT
AND MAINTAINED
FOR MOBILIZATION
AND OTHER
FOLLOW-THROUGH
ACTIVITIES

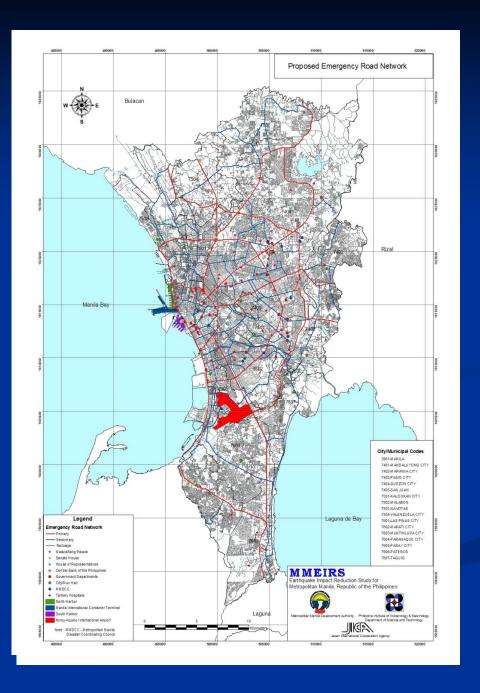




- GIVE PRIORITY TO CLEARING OF DEBRIS ALONG VITAL ROAD NETWORK TO FACILITATE MOVEMENT OF EMERGENCY SERVICES AND EVACUATION
- ENSURE LINK BETWEEN
 PORTS AND EOCS OR FROM
 HIGH-IMPACT AREAS TO
 MEDICAL FACILITIES
- OPTIMIZE UTILIZATION OF PNR, MRT AND LRT TRACKS FOR MOVEMENT OF SUPPLIES EVEN IF THERE IS NO POWER MAKING USE OF MAKESHIFT DIESEL OPERATED ENGINES OR HUMAN-OPERATED TROLLEYS



- OPTIMIZE HOSPITALS NEAR RIVERWAYS IN THE EVENT OF TOTAL BREAKDOWN OF ROAD NETWORKS
- MAXIMIZE USE OF OPEN SPACES FOR MASS EVACUATION AND IF REQUIRED, CONSCRIPT PRIVATE VACANT LOTS LIKE:
 - GOLF COURSES
 - OPEN SUBDIVISIONS
 - SPORTS ARENAS
 - SAFE SCHOOL GROUNDS
 - **CEMETERIES**



CONCLUSIONS

- THERE IS NEED TO INCREASE AND SUSTAIN INTEREST ON DISASTER PREPAREDNESS AND RISK REDUCTION
- EQUIPMENT AND CAPACITIES HAVE INCREASED BUT STILL INADEQUATE TO MEET THE ANTICIPATED 7.2 M
 EARTHQUAKE & ONDOY-LIKE FLOODS
- COMMUNITY INVOLVEMENT IS VERY IMPORTANT
- PRIVATE SECTOR PARTICIPATION

THANK YOU VERY MUCH FOR YOUR ATTENTION!