





INDONESIAN-FRENCH SEMINAR

June 24th - 25th 2013

seminar room, medical faculty of andalas university Limau Manis, Padang - West Sumatra, Indonesia

REGIONS FACING NATURAL RISKS

How to think natural risks and mitigating strategies in land use planning processes of coastal regions?

Speakers:

M. Bernard Guezo, CERTU
M. François Hissel, CETMEF
M. Hencky Mayaguezz, Université de la Rochelle
M. Denis Mercier, Université de Nantes
Mme Julie Morin, CNRS
M. Raphaël Paris, Université de Clermont-Ferrand
M. Mhamed Souli, Université de Lille 1
M. Gunnar Tietze, Geotopic
Mme Fabienne Vallée, Technopôle de Brest
Mme Clara Villar, CERTU

Dr. Syamsul Maarif (Head of National Agency for Disaster Management)
Teddy Boen

Yazid Fadhli

Dr. Abdul Hakam (Andalas University)

Ir. Hediyanto, MSCE, MSi (Head of Construction Services Agency of Public Works Ministry)

Dr. Febrin Anas Ismail (Andalas University)

Dr. Bambang Istijono (Andalas University)

Dr. Badrul Mustafa (Andalas University)

Ahmad Suraji

Ir. Suprapto, MSi (Head of West Sumatra Public Work)

Rahmat Syahni

SCHEDULE AND PROGRAM

Day 1: June 24 à Presentation

Time	Speaker	Subject						
9.00-9.10	Febrin A. Ismail	Steering Committee Report						
9.10-9.20	Werry Darta T.	Opening Speech						
9.20-9.35	Joël le Bail, Scientific cooperation Attaché	Opening Speech						
9.35-9.45	Rector	Official Opening of the Seminar						
9.45-10.00	Bernard Guezo	Technical opening: land management and regulation						
10.00-10.45	Ir. Hediyanto	Keynote Speaker : Policy Of Disaster Safe Infrastructure In Indonesia						
10.45-11.00	Coffee Break							
Session One : Some risks affecting land planning strategies								
11.00-11.30	Raphael Paris	Volcanic tsunamis in Indonesia: developing a strategy of hazard mitigation						
11.30-12.00	Dr. Abdul Hakam	Landslide in Maninjau, Agam, West Sumatra						
12.00-12.30	Mhamed Souli	The effects of waves on constructions: Numerical simulation using FEM and SPH methods						
12.30-13.00	Dr. Bambang Istijono Yazid Fadhli	Presentation Lesson Learnt from 2009 Earthquake in Mentawai island and West Sumatra						
13.00-14.00	Lı	unch Break						
Session Two : Ho	ow to think land planning in co	astal region facing natural risks						
14.00-14.30	Gunnar Tietze	Mitigation risks land plans						
14.30-15.00	Ahmad Suraji	A Proposed Construction and Infrastructure Management Framework For Disaster Mitigation						
15.00-15.30	Denis Mercier	How to mitigate the risk of marine submersion on the French coast						
15.30-16.00	Teddy Boen	Retrofitting of Multi-stories Buildings in West Sumatra						
16.00-16.15	Coffee Break							
16.15-16.45	Julie Morin	Improve evacuation capacities facing tsunami hazard: from modelling to education						
16.45-17.15	Hencky Mayaguezz	Methodological contribution for an integrated assessment of human vulnerability in case of Tsunami in Padang						
End of Day 1								
19.30-21.00	Dinner on invitation (French and Indonesian speakers)							

Day 2: June 25 à Workshop

Horaire	Moderator	Subject			
9.00-9.15	Opening of day 2				
9.15-10.45	Bernard Guezo MSi Dr. Badrul Mustafa	9.15-9.45 : Subsidence as a possible entrance for a systemic approach to risk management/ History of West Sumatra earthquakes			
		9.45-10.45 : Workshop: How to take these risks into account in land planning?			
10.45-11.00	Coffee Break				
11.00-12.30	Clara Villar Rahmat Syahni Ir. Suprapto	11.00-11.30 : From prevention to post-crisis: stakeholders involvement / The Experience On Action Plan For Rehab Recont In West Sumatera			
		11.30-12.30 : Workshop: Training different categories of territorial stakeholders to risk management			
12.30-13.30	Lunch Break				
13.30-15.00	François Hissel Dr. Syamsul Ma'arif	13.30-14.00 : Taking into account risks in the spatial planning of coastal areas: an overview of the French experience / Disaster Management in Indonesia			
		14.00-15.00 : Workshop: Thinking the development and the implementation of risks prevention land plans in Indonesia			
15.00-15.15	Coffee Break				
15.15-16.45	Fabienne Vallée Dr. Febrin Anas Ismail	15.15-15.45 : International network to define and implement integrated management centers for coastal zones and natural risks/ tsunami mapping in Padang City			
		15.45-16.45 : Workshop: Developing indonesian-French cooperation in these fields			
16.45-17.15	François Hissel / Dr. Syamsul Ma'arif	Conclusions			
17.15-17.30	Attaché Joël le Bail/ Rector	Closing Statement			
End of Seminar					



LESSON LEARNT FROM 2009 EARTHQUAKE IN WEST SUMATERA (CONDITION AND GENERAL POLICIES OF GOVERNMENT IN POST - DISASTER REHABILITATION AND RECONSTRUCTION)

Presented on French-Indonesian Seminar: Land Planning in Coastal Regions Facing Natural Risks Padang, 24-25 June 2013

Delivered By:
Dr. Bambang Istijono, ME





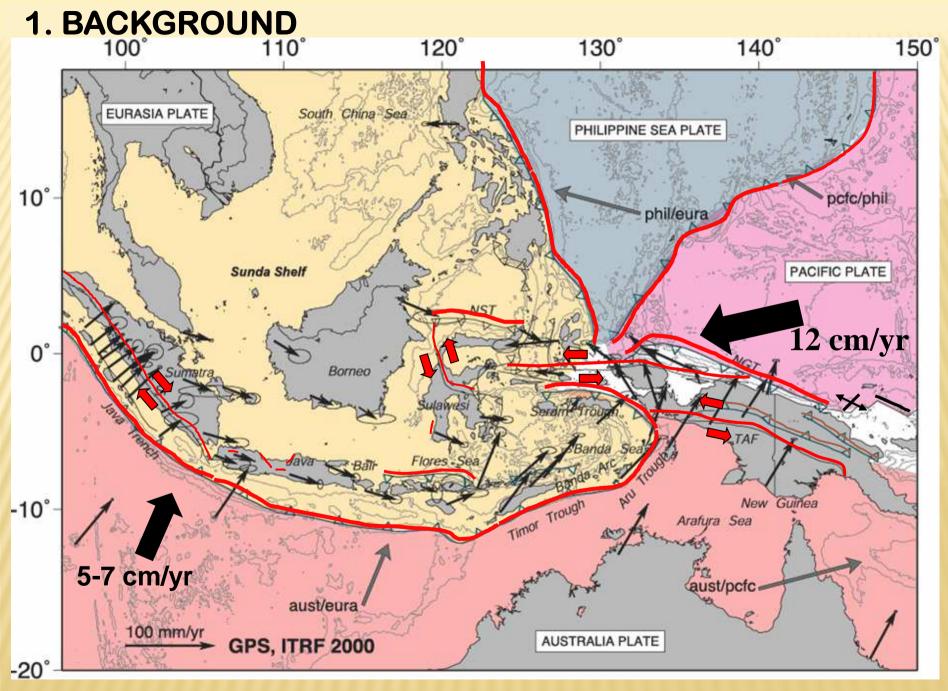




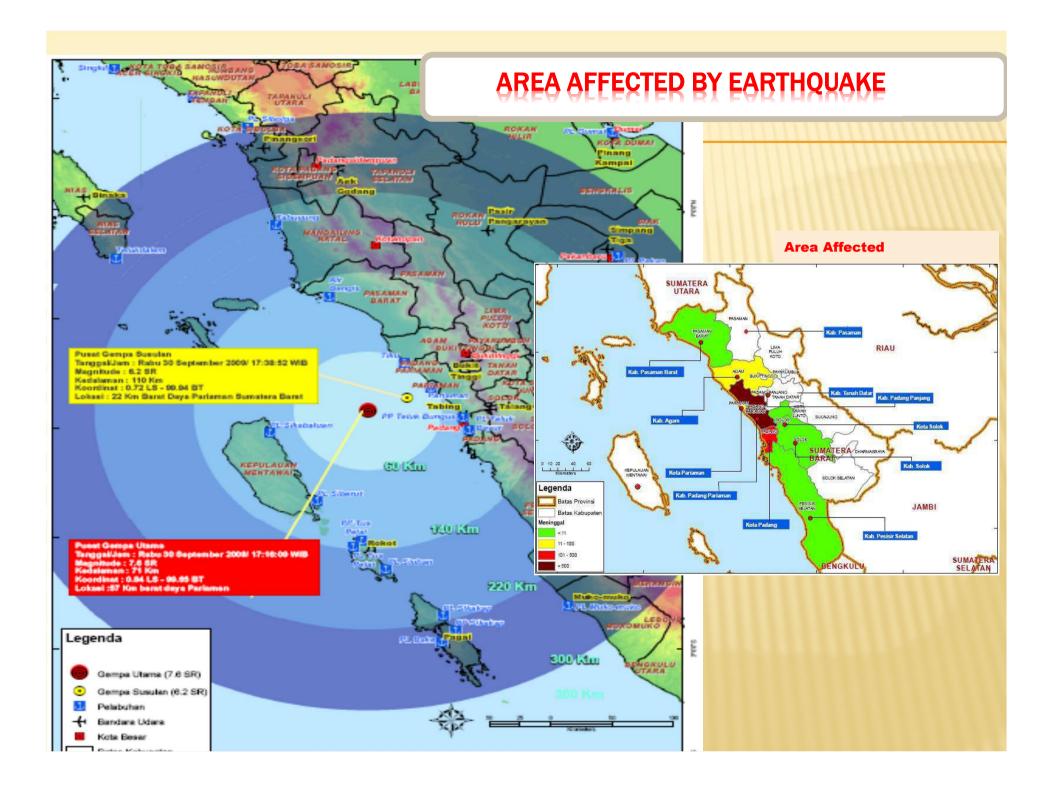


OUTLINE

- 1. BACKGROUND
- 2. EARTHQUAKE REFLECTIONS IN WEST SUMATRA
- 3. PROVINCIAL GOVERNMENT POLICIES IN REHABILITATION AND RECONSTRUCTION
- 4. FUTURE PROSPECTS
- 5. RECOMMENDATIONS AND EXPECTATIONS

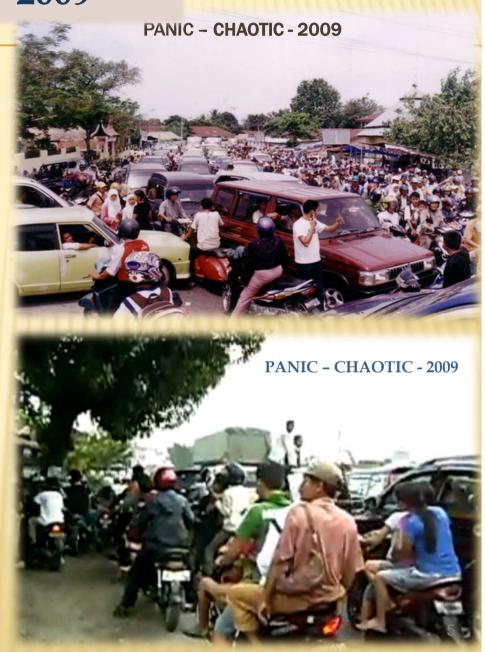


ACTIVE TECTONICS of INDONESIA: Crustal motions from GPS study (Bock et al, 2004)



PADANG EQ 2009

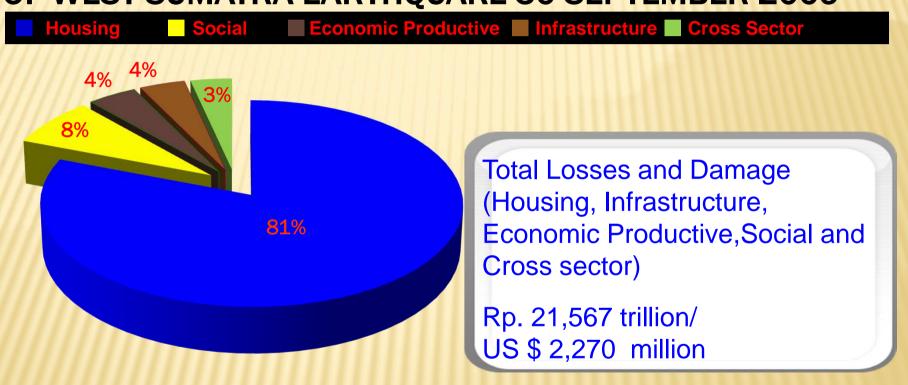






2. EARTHQUAKE REFLECTIONS IN WEST SUMATRA

DAMAGE AND LOSSES PER SECTOR OF WEST SUMATRA EARTHQUAKE 30 SEPTEMBER 2009



Damage concentration of housing sector

TOTAL DAMAGE AND LOSSES DUE TO EARTHQUAKE BASED ON SECTOR/SUB SECTOR AND OWNERSHIP (Rp. trillion)

0 1 10 1 0 1	DISASTER IMPACT		OWNERSHIP		
Sector/Sub Sector	DAMAGE	LOSSES	TOTAL	PRIVATE	PUBLIC
SOCIAL SERVICES	17,133.60	502.70	17,636.30	16,744.00	892.30
HOUSING	15,649.40	297.60	15,947.00	15,947.00	0.00
EDUCATION	593.80	25.00	618.80	133.70	485.10
HEALTH	569.10	175.20	744.30	355.90	388.40
CULTURE AND RELIGI	304.20	3.10	307.30	300.50	6.80
DISADVANTAGE FACILITY	17.10	1.80	18.90	6.90	12.00
PRODUCTIVE SECTOR	811.70	1,335.60	2,147.30	1,845.60	301.50
AGRICULTURE	56.10	223.00	279.10	228.80	50.30
INDUSTRY	10.90	114.80	125.70	125.60	0.00
TRADE	673.70	621.50	1,295.20	1,061.40	233.80
TOURISM	71.00	376.30	447.30	429.80	17.40
INFRASTRUCTURE	744.40	114.40	858.80	683.20	175.60
TRANSPORTATION AND COMMUNICATION	327.60	28.80	356.40	252.30	104.10
ENERGY	46.30	6.00	52.30	0.00	52.30
WATER AND SANITATION	370.50	79.60	450.10	430.90	19.20
CROSS SECTOR	679.40	246.10	925.50	0.00	925.50
GOVERNMENT FACILITIES	610.80	14.8	625.60	0.00	625.60
ENVIRONMENT	0.60	1.1	1.70	0.00	1.70
FINANCE AND BANKING	68.00	230.2	298.20	0.00	298.20
Total	19,369.10	2,198.80	21,567.90	19,272.80	2,294.90

3. POLICIES RELATED TO HANDLING OF WS DISASTER

- 1. Local Regulation No. 5 Year 2007 concerning Disaster Management
- 2. Local Regulation No. 7 Year 2008 concerning Long Term Development Plan 2005 -2025
- 3. Local Regulation No. Year 2010 concerning West Sumatra Spatial Plan 2009 2028
- 4. Local Regulation No. 02/III/2010 concerning Coastal and Small Island Management of West Sumatra Province
- 5. Regulation of Kaban BNPB No.12 Year 2009 concerning Action Plan of Rehabilitation and Reconstruction in West Sumatra Province
- 6. Regulation of Kaban BNPB No.111 Year 2009 concerning Implementation Direction of Postearthquake disaster Rehabilitation and Reconstruction of West Sumatra Province
- 7. Decision of Kaban BNPB No.109/BNPB/XI/2009 concerning Appointment of Technical
- 8. Support Team Personnel of Post-earthquake disaster Rehabilitation and Reconstruction of West Sumatra Province
- 9. Decision of Kaban BNPB No.30/BNPB/01/2010 concerning Change of Technical Assistance Team Personnel of Post-earthquake disaster Rehabilitation and Reconstruction of West Sumatra Province
- 10. Memorandum of Understanding between BNPB and West Sumatra Provincial Government No.MoU No.12/BNPB/XII/2009 and No.362/2872/DPKD-2009, concerning Implementation of Post-earthquake Disaster Activities/Early Recovery Activities Year 2009.
- 11. Governor Letter No.441/I/Sosbud/Bappeda-2010 concerning Technical Guidance of Post-disaster Rehabilitation and Reconstruction Year 2010

STAGE OF

REHABILITATION AND RECONSTRUCTION WEST SUMATERA PROVINCE

1. Early Recovery Stage

- 1-3 months post disaster
- Aim to recover psychological and social condition of earthquake victim, equip temporary house and basic services while conduct various preparation for implementation of rehabilitation and reconstruction, including fund mobilization
- In early stage, transition period post emergency phase to rehabilitation phase, need quick funding delivering scheme, so that basic services for disaster victims can be implemented

2. Rehabilitation Stage

- 3 12 months after emergency phase ended
- respond for various urgent issues and need immediate handling

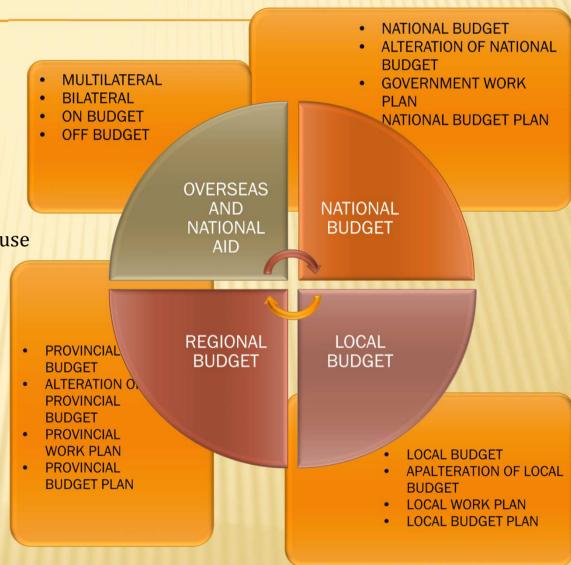
3. Reconstruction Stage

- 6 24 months
- Aim to recover whole system and integrate various development program into regional development approach

FUNDING POLICY OF REHABILITATION AND RECONSTRUCTION

FUND SOURCES

- National Budget through ready to use fund
- 2. National budget by BNPB
- 3. Local budget by BPBD
- 4. Disaster Aid ABPN/ APBD
- 5. Realocation of Loan
- 6. General Allocation Fund(DAU)
- 7. Deconcentration Fund
- 8. Special Allocation Fund(DAK)
- 9. Mandatory (licensing)/Insurance
- 10. Overseas Grant Hibah through Minister of Finance Account
- 11. Grant from company/private sector/community
- 12. Participation fund from community



4. FUTURE PROSPECTS 1.Realize cultural and religious community life system Realize Cultural and Religious 2.Realize virtuous community Life based on "Adat Basandi 3.Realize West Sumatra as education center with Islam nuance Syarak, Syarak Basandi 4. Realize piety and social concern Kitabullah" philosophy 5. Create harmonious social life in multicultural environment 1.Implement democratic and fair law enforcement 2.Develop synergy among development stakeholders Realize Good Governance. 3. Realize participative, accountable and transparent governance democratic and based on system law 4. Create professional government staffs 5. Realize excellent public service **Religious And** 1.Realize high education quality and based on faith, piety and **Developed West** Realize high quality good moral **Sumatra with Human resources** 2. Realize high health level and smooth health services **Human Resources** 3. Realize advanced and efficient science and technology ability and Environment **Development** 1. Implement modern agriculture and advanced agribusiness 2. Realize efficient service industry Realize productive 3. Realize West Sumatra as national and international tourism economic structure and destination able to 4.Realize West Sumatra as growth center and Sumatra west coa compete in global world gate 1. Realize good and consistent spatial plan 2. Protect natural conservation area, green, beautiful and Realize green, everlasting environment harmonious and 3. Realize good environment management system sustainable environment 4. Create environment awareness on community behavior **DEVELOPMENT POLICIES DIRECTION12 VISION MISSION**

LONG TERM DEVELOPMENT PLAN OF WEST SUMATRA PROVINCE YEAR 2005-2025

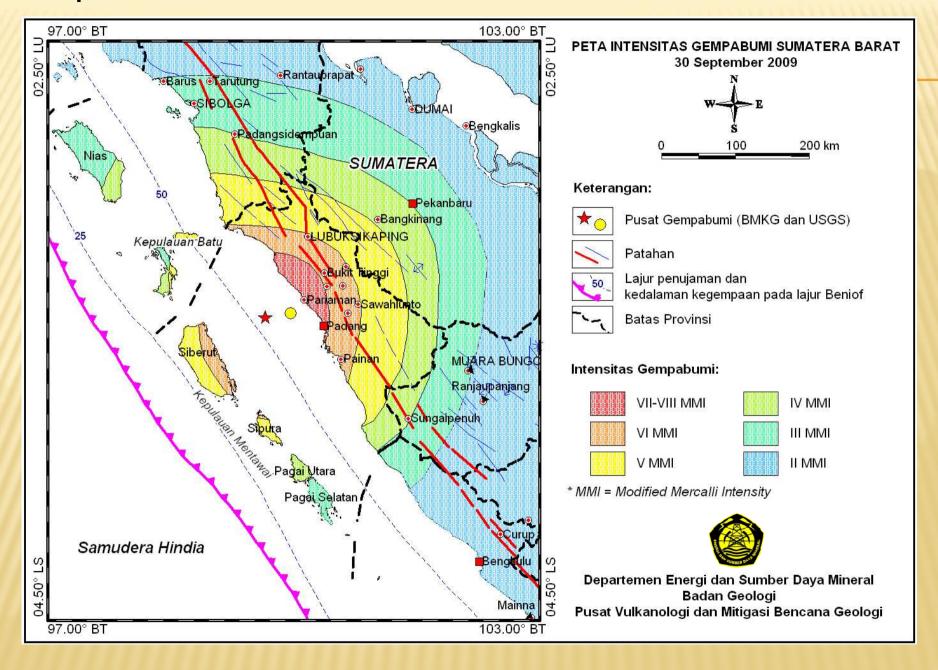
MISSION

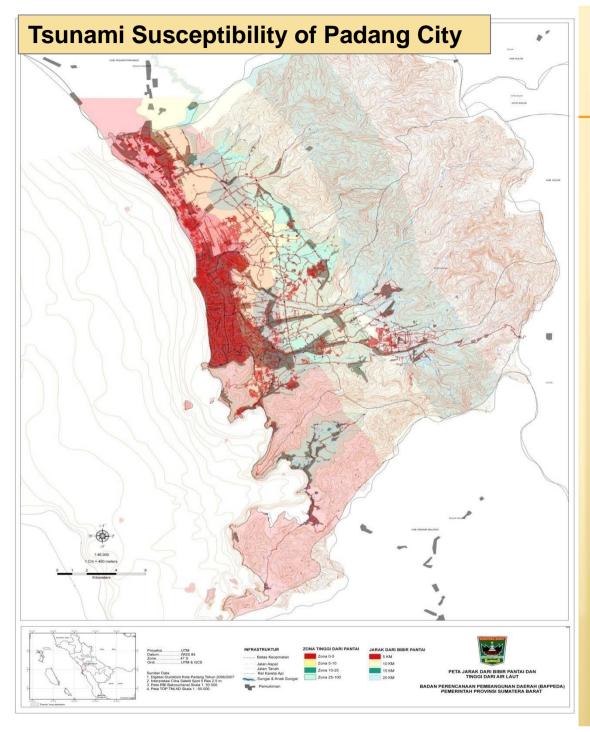
Realize green, harmonious and sustainable environment

POLICIES DIRECTION

- 1. Realize good and consistent spatial plan
- 2. Protect natural conservation area, green, beautiful and everlasting environment
- 3. Realize good environment management system
- 4. Create environment awareness on community behavior

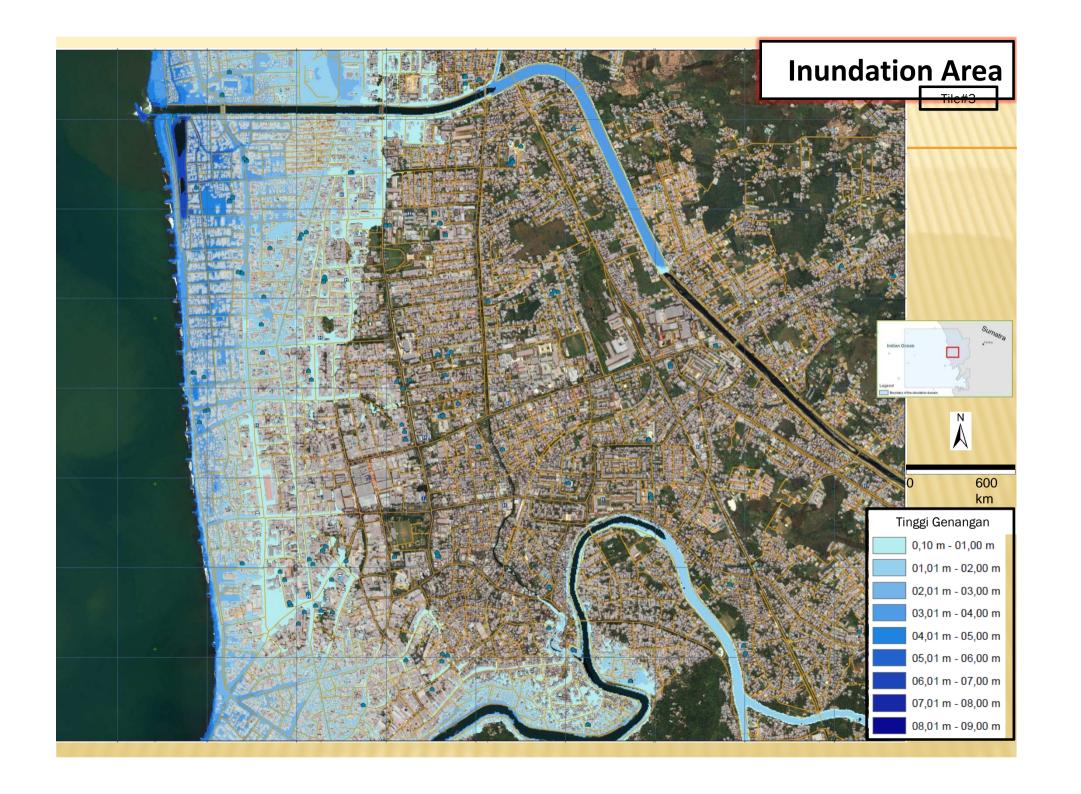
Earthquake Condition

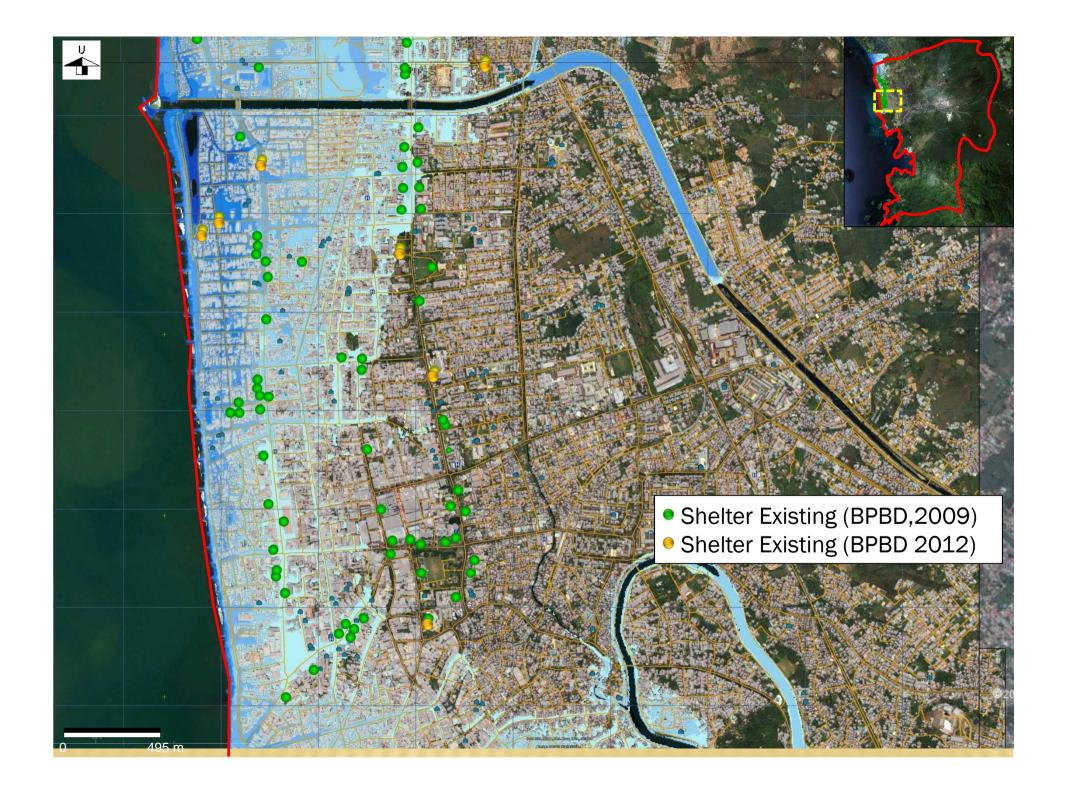




Prospect:

- Tsunami threat to 5 dense populated cities in West Coast (Painan, Padang, Pariaman, Air Bangis, Tiku)
- 2. With the earthquake condition,
 - a. All public buildings will be checked related to earthquake potency in the future
 - b. New building will be built in appropriate with earthquake zone
 - c. Earthquake zone will be formulated for building clustering in accordance with earthquake zone.
 - d. Implement training and simulation in order to enhance community preparedness





Education Infrastructures

- 1. New construction of severe damage/collapse school buildings. It was conducted through applied disaster safe building standard and equipped with area for evacuation place
- 2. Moderate damage school buildings were rehabilitated to be disaster friendly through strengthening of wall and structure



Public Infrastructures

- 1. Severe damage Hospitals and public facilities (market, government office) were constructed by rehabilitation of structure and function as evacuation place
- 2. Provincial Public Work office was constructed as model of using modern technology (seismic reduction)

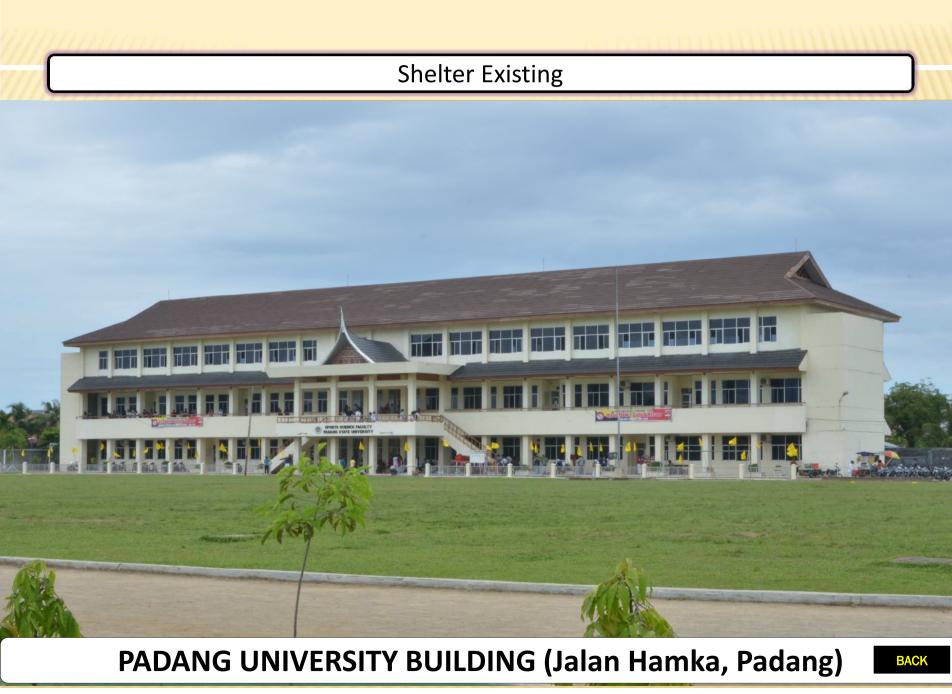


ASSISTANCE AND COOPERATION OF INSTITUTIONS/DONOR COUNTRIES FOR POST-DISASTER MANAGEMENT

- 1. Schools Construction
- 2. Water Resources Development
- 3. Housing License (Building License)
- 4. Rehabilitation and development of Government offices, hospitals, etc.

5.RECOMMENDATIONS AND EXPECTATIONS

- 1. Due to West Sumatra condition that frequently affected by all kind of disasters, therefore mitigation preparation (risk reduction and preparedness) is urgently needed.
- 2. Post-disaster rehabilitation and reconstruction year 2009 necessitates huge amount of fund, thus it need financing from Local, Provincial and National Budget and also from institutions/donor countries.
- 3. Cooperation among all parties, both local and international, starting from preparedness to rehabilitation and reconstruction will be continued and developed in order to strengthen community preparedness and buildings infrastructure that function as shelter/tsunami evacuation place.





BUNG HATTA UNIVERSITY BUILDING (Jalan Khatib Suleman, Padang)



Mosqe Nurul Iman Padang



Kantor BPK RI Perwakilan Provinsi Sumatera Barat Padang



Kantor Wilayah Ditjen Perbendaharaan (Jalan Khatib Suleman, Padang)



Gedung Bank Indonesia (Jalan Sudirman, Padang)





Gedung DPRD Provinsi Sumatera Barat (Jalan Khatib Suleman, Padang)



Al-Azhar Yunior School (Jalan Khatib Suleman, Padang)



Hotel Mercure (Jalan Purus, Padang)





BAPPEDA PROVINCIAL OFFICE











LIVESTOCK SERVICES PROV OFFICE





ESCAPE BUILDING AT GOVERNOR OFFICE





RENCANA PEMBANGUNAN ESCAPE BUILDING TAHAP II AKAN MENYERAP DANA SEBESAR Rp. 44.243.260.000,-

LIBRARY PROVINCIAL BUILDING (UNDER CONSTRUCTION)









