

Item	Sub-item	Information	Data Source
	Key Target, featured strategies/ approaches etc.	Because of the policy of "one province to one county", there was competition among different provinces. So the new policy is "3 years task will finish in 2years".	State Council
	Economic Recovery	Economic development recovery was strong. Sichuan, Gansu, and Shannxi provinces got lots of support, and that made the mountain poor district change a lot, and the buildings more modernized. Only in Sichuan, the reconstruction plan included 29692 projects and more than 800 billion yuan investment. Whole reconstruction investment is about 1000 billion yuan.	State Council
	Other Characteristics	Open policy is important, at the process of reconstruction, and the international experience were adopted by the government.	
	Lessons Learned	First the central government must provide the main budget to local government. This is the central government's responsibility. But secondly reconstruction can not be just centralized. It must be combined decentralized projects. Using the policy "one province to one county", it is a very important decision. Actually this is the big reform of the administration management of China. Thirdly reconstruction must combined the economic with social construction. This is the weak in the reconstruction process. Also, the reconstruction law and regulation, especially the overall plan is very important. Opening the process of policy making to the society, it is another experience in the reconstruction process. Some experts send a lot valuable suggestions to central and local governments.	
References	Reports	http://www.xinhuanet.com/xhwenchuan USGS: http://earthquake.usgs.gov/earthquakes/eqinthenews/ http://www.512.gov.cn/ http://www.cca.gov.cn/ http://www.ceic.ac.cn/ http://www.eq-igl.ac.cn/ http://www.mca.gov.cn http://www.jianzai.gov.cn/ http://www.sdpc.gov.cn/ Http://www.scio.gov.cn http://www.audit.gov.cn/n1057/n1072/n258889/ www.sc.gov.cn/10462/10929/11076/11077 Richard A. Kerr. Chinese Quake Likely a Mega-Catastrophe. Daily News. ScienceNow. 2008-05-12	
	Data/photos	UNDP-China Project: Working Report about Relief and Reconstruction of Wenchuan Earthquake, by CDRC.	

3) 2004 年 スマトラ沖地震・津波災害

Item	Sub-item	Information	Data Source
Data on Hazard	Date and Time of Occurrence	Aceh : 07:58AM, December 26, 2004 Nias : 11:09PM, March 28, 2005	USGS
	Magnitude (source)	Aceh : M 9.1 Nias : M 8.6	USGS
	Epicenter	Aceh : 250 km South west of ACEH (3.316°N, 95.854°E) Nias : 2.074°N, 97.013°E	USGS

Item	Sub-item	Information	Data Source
	Intensity of Shaking	Aceh : Intensity scale : 4.0 (Soloviev-Imamura scale) Nias : Intensity scale : 0.5 (Soloviev-Imamura scale)	ISSET Journal
	Ground Motion		
	Tsunami (maximum height)	Aceh : 45 m (150 ft) around Lhok Nga area of Aceh Besar District and 24 m (80 ft) according NOAA Nias : 4 m	NOAA/NESDIS
Data on Damages	Major Affected Area	Aceh : Banda Aceh, Meulaboh (2 cities, 11 districts) Other countries : Thailand, Srilanka, India, Maldives, Malaysia, Myanmar, Seychelles, Eastern Africa Nias : 80 percent of whole area	USGS
	Human Damage	Dead : 127,720 in Aceh, around 250,000 in total 678 in Nias Missing : 93,285 (Aceh)	
	Damage of Buildings	House : 139.195 units Social- Economic Facilities : 93.285 units School : 3.415 units Health Infrastructure : 517 units Government Building : 669 units	
	Infrastructure/Life line Damage	Agriculture : 73.869 Ha Roads : 2.618 Km Bridges : 119 units Ports : 22 units Airport/Airstrip : 8 units	
	Main Damage Cause	The distances between the epicenter and the coast line is very near (90 km in the perpendicular position from the epicenter) Large population of people living in the area along the coast Lack of facilities and infrastructure to support / protect to face the danger of tsunami Lack of access to information and education on awareness of the tsunami Tsunami wave hydrodynamic forces contributed to most damages and losses incurred by the event. Earthquake cause less damages to the area due to the typical structures in the area were not more than double storeys building. Early warning systems installed in the Pacific Ocean, but not installed in the Indian Ocean, whereas 85 percent historically recorded tsunami events occurred here. Some sophisticated tools owned by developed countries already detect symptoms of the tsunami, they've released a tsunami warning to countries in the Pacific Ocean region, but can not provide information to countries in the Indian Ocean before there was a wave of attacks tsunami	

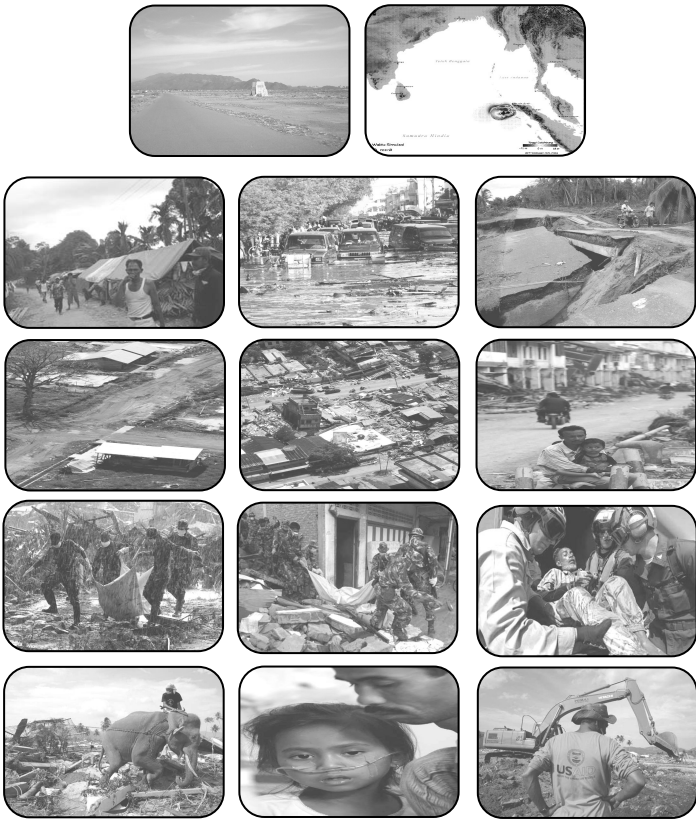
Item	Sub-item	Information	Data Source
	Characteristics of Damages (Physical/Social Aspects)	Physical Aspects: Public Utilities (school, community health center). Infrastructure (electricity, sanitation, drainage, roads & bridges, clean water). Social-Cultural Facilities (village hall, mosque/church). One storey buildings that were located closely to coastal impacted area were flattened and left only their foundation. Social Aspects: 104.500 small bussiness were collapsed 15.000 household need to be relocated 60.000 farmers were displaced 1.927 teachers died 13.828 coastal fishing boats destroyed/lost	
	Direct Economic Loss	<ul style="list-style-type: none"> Total Loss (Aceh-Nias) : Rp. 46.56 Trillion Approximately Aceh's GDP loss : up to US\$ 4.5 Billion, estimated decrease of Aceh's economic growth : 5% Decrease rate of per capita income : 32% Inflation rate : 4.45% (April 2005), 3.24% (Agustus 2005) Impact of national economic growth : 0.1-0.4 % (2005) 	
	Lessons Learned	<ul style="list-style-type: none"> Pre event knowledge of coastal community to tsunami is important to make them aware and ready for emergency evacuation soon after major sea earthquakes. High structures are potential to be used for escape buildings should higher ground are difficult to find at reachable distance for evacuation. Government should move quickly to clarify which agency will coordinate the post-disaster reconstruction program, what is empowered to do, and when its mandate begins and ends A strong, experienced leadership team should be appointed to gain the full support of other government agencies amd the donor agency A crisis mindset should be maintained throughout the reconstruction effort, adapting usual internal procedures and structures to a crisis situation Strong implementation capability should be built early on so that the coordinating agency can meet its overall reconstruction targets by directing resources for meeting emerging needs reconstruction to ensure funding flows meet actual needs 	
Emergency Response	Rescue activities	<ul style="list-style-type: none"> Evacuation and searching of victim's bodies <p>Done by collaborative work by Indonesian National Force (TNI), police, Indonesian Red Cross (PMI), Indonesia Search and Rescue (Basarnas), community, volunteers from inside and outside the country.</p>	
	Medical services	<ul style="list-style-type: none"> Handling of victims who were injured done in all hospitals and health care units which still functioning in that particular area coordinated by Ministry of Health of RI Some of the seriously injured victims who need special treatment were brought out to Medan and Jakarta Build emergency health care unit Re-functionilize the damaged hospital/health care units 	
	Evacuation shelter	<ul style="list-style-type: none"> 562.149 people live in houses/tents (July 1, 2005) 33.458 people live in barracks/transitional shelter (July 1, 2005) 	


Item	Sub-item	Information	Data Source
	Food, water and other relief goods supply	<ul style="list-style-type: none"> 5.000 tonnes rice and foods are delivered (January 9, 2005) by National Logistic Agency (<i>BULOG</i>) Fixation of clean water supply and sanitation treatment/piping units by <i>PDAM</i> with 435 l/s production capacity and 250 l/s distribution capacity Aids from other county and university such as portable water purification Clean water and electricity supply was cut off and being rehabilitized in January 2005 except for Meulaboh and west-coast area 	
	Information and communication (Information to the disaster victims)	<ul style="list-style-type: none"> All communication was cut off the day disaster happened. Begin to functional again in January 2005 except for Meulaboh and west-coast area Communication was being installed in January 2005. IBM installed 250 computer units being to cover Aceh, Medan and Jakarta Area Radio installation also begin to installed in January 2005 by <i>ORARI</i> and <i>Kodim</i> PT Telkom Indonesia provided 1 month free for call for Cellular phone registered under Aceh regional codes 	
	Support from Private Companies	A national-private tv station provided foods for the emergency	
	Support from abroad	<ul style="list-style-type: none"> Total involved country : 34 Personnel : 16.000 Medical team : 117 Mothership/carrier : 9 Float hospital : 1 Aircraft : 31 Helicopter : 82 	
	Lessons Learned	<ul style="list-style-type: none"> During emergency period, critical decisions such as who should lead rescue process and which area should be focused are urgent. Slow process on this will delay rescue process and save the survivors and consequently will increase restive Overseas support during emergency could be minimum during the emergency period. Therefore, local and national capacities to respond quickly are important to prevent further crisis in the disaster area Government at the impacted area was mostly paralyzed due to staggering number of victims and losses. Therefore, neighbourhood provincial government support is crucial to restore rules and official engagements Emergency activities to save the survivors should be prioritized. Top priorities include meeting basic needs, filling supply chain gaps, building a coordination room, and involving affected communities in emergency Efforts should be made to "build back better" at every opportunity, with disaster-resistant construction, improved quality and sustainable institutional capability Key donors and multi-donor funds should be requested to play coordinating roles 	

Item	Sub-item	Information	Data Source
Recovery	Infrastructure/Life line	<ul style="list-style-type: none"> During 2005-2009, done under coordination of Aceh-Nias Rehabilitation and Reconstruction Agency (BRR Aceh-Nias) supported by other national and international agencies, such as Ministry of National Development Planning (Bappenas), Ministry of Finance, US AID, JICA/JICS, Japan Red Cross, American Red Cross, IOM, UNDP, World Bank , etc Communication line, clean water supply line, electricity are starting to restored in January 2005 Transportations line also started being restored in January 2005 3.696 km of roads are built after 4 years 363 bridges are built after 4 years 23 ports are built after 4 years 13 airport or airstrips are built after 4 years 97% households have electricity supply (des 2008) Cellular/mobile phone access reach 35 % household needs 	
	Other services		
	Temporary House	<p>The number of victim lived in barrack/transitional shelter :</p> <ul style="list-style-type: none"> 106.320 (2005) 14.280 (2006) 3.698 (2007) 871 (2008) 344 (2009) <p>Government of RI built barracks/transitional shelter in 24 locations. 977 barracks were built. Each barracks consist of 12-20 transitional shelter with 4x5 m size for each family</p>	
	Disaster Waste	<p>5.765.000 m3 of waste were being cleaned and recycled</p> <p>2.5 millions wood waste are being recycled.</p> <p>UNEP, UNDP, and several agencies were involved in removing tsunami waste</p>	
	Finance	<p>Total Rp. 21.728.136.110 was being used for ACEH rehabilitation and reconstruction</p> <p>Total of Rp. 2.826.115.886 was being used for Nias rehabilitation and reconstruction.</p> <p>Supported by Government of Indonesia, UN Bodies, Multi Donor Fund (MDF), EU Community, Government of Japan and others</p>	
	Support from Private Companies	Astra International, Several Indonesia National Companies, PT Telkom, Indosat, Media Indonesia Corp, PT Coca Cola, and others were involved during the recovery process	
	Support from Abroad	<p>In housing and settlement area :</p> <p>High-Level NGO/IA : 24 NGO/International Agencies : 57.914 units</p> <p>Mid-Level NGO/IA : 72 NGO/International Agencies : 38.898 units</p>	
	Lessons Learned	<ul style="list-style-type: none"> Shelter and basic needs of the survivors are top priorities Accurate survivors data determine how livelihoods supports can be delivered effectively and efficiently Traumatized victims may receive less attention and care if carefull survivors treatment is not conducted involving phsyciatry observation Women and children are the most vulnerable community groups that need serious care during recovery 	

Item	Sub-item	Information	Data Source
Reconstruction	Principles	<ul style="list-style-type: none"> • Implementing islamic law in all aspects of life (especially in Aceh) • Improve the quality of human resources • Strengthening provincial and districts government • Develop and manage natural resources wisely and in accordance to its capacity • Re-built houses and settlement completed with its basic infrastructure • Built efficient and reliable infrastructure • Develop an excellence, fair and competitive regional economic • Developing and preserving cultural values and customs that support sustainable development • Increasing the capacity of local bureaucracy that professional, authoritative, and trustworthy • Strengthen public understanding of national and state insight • Strengthen the implementation of appropriate local government 	
	Key issues	<ul style="list-style-type: none"> • Religion, social and cultural rights • Education, health and gender • Monitoring • Economy • Planning and Finance • Housing and settlement • Infrastructure • Government operation • Restoring Rules and Law • Institutional and human resources development 	
	Organizations	Executing Agency BRR, other government bodies, local/international NGO/foundation, United Nation, Other nations such as Japan, German, Australia, Netherland and many more	
	Finance	Budgeting composition for Aceh-Nias Rehabilitation and Reconstruction : on-treasury and on-budget : Government : 21 trillion rupiahs Donor : 8 trillion rupiahs off-treasury and on-budget : Donor : 3 trillion rupiahs Off-treasury and off-budget : Donor : 35 trillion rupiahs	
	Support from Private Companies		
	Support from abroad	Multi Donor Fund, UN Bodies (such as UNDP, UNICEF, IOM,), World Bank, EU Community, JICA-JICS of Japan, Government of Japan, US AID, Saudi Arabian Government, Turkey, Singapore, and others supported the reconstruction process	
	Reconstruction Schedule	April 2005 – April 2009	

Item	Sub-item	Information	Data Source
	Key Target, featured strategies/approaches etc.	<ul style="list-style-type: none"> • The development of spritual and social life of the people of Aceh and Nias • Social, economic and cultural community is in a better state • Improving the quality of educational services, health and women's roles • Rehabilitation and reconstruction in Aceh and Nias • New structures and institutions to support sustainable economic growth • Develop key potential for economic growth in a sustainable Aceh and Nias • The rise of of agriculture fisheries and forestry • The presence of holistic-infrastructure development plan • Reconstruction and rehabilitation of housing and settlement than comply to minimum standard • Availability of access to a healthy and clean water to all citiens • Restoration of public roads and highways in Aceh and Nias • Restoration of docks, terminals and airports which are needed to support economic growth • Restoration of drainage system and flood control • Revitalization of government building and insfrastructure • Strenghten the capacity of civil servant 	
	Economic Recovery	<ul style="list-style-type: none"> • 60% of small bussinesses have access to credit. About 60.000 micro-credits to 4% of households in ACEH and 1.5% of households in Nias • Fisheries production reached 25% above the production level before the tsunami in 2004 • Fish production reached 350.000 tonnes • In 2007, rice production reached 1.535.375 tonnes exceed the pra-tsunami production • In 2007, coffee production reached 42.308 tonnes exceed the pra-tsunami production • In 2007, the poverty level is become 27% from 30% in 2003 	
	Other Characteristics		
	Lessons Learned	<ul style="list-style-type: none"> • Key donors and multi-donor funds should be requested to play coordinating roles • Constant communication among partners should be maintained to manage beneficiary and donor expectations about the pace and progress of reconstruction • The coordinating agency should ensure integrity and accountability of funds to gain donor coinfidence and support • A range of influence skills including diplomacy, authority, and flexibility may be used throughout the course of reconstruction • Quality of reconstruction process as well as to ensure the works done efficiently and effectively in achieving the reconstruction goals should be kept as top priority. Due to heavy and large number of reconstruction agencies during the time, coordination and control of the process will be difficult if frameworks and rule among the agencies do not conform at the first place • Data of the victims as well as data of land status are difficult to verify. This will slow the reconstruction process or else will put the reconstruction process in legal status obstacle that may not be easy to resolve • Restoring digital data of land status at remote and save area will help reconstruction agencies to validate legal status of landowners 	

Item	Sub-item	Information	Data Source
References	Reports	Accountability Report of BRR 2008, USGS (United States Geological Survey), ISET (Institute for Social and Environmental Transition) Journal, Execution of Emergency Response Audit Report of DPR 2005, Semester Report of BRR, Progress Report of BRR 2005, Progress Report of BRR 2006, NOAA (National Oceanic and Atmospheric Administration, NESDIS (National Environmental Sattelite, Data and Information Service)	
	Data/photos	<p>D-Day + Emergency Response :</p> 	

Item	Sub-item	Information	Data Source
		<p>Recovery, Rehabilitation and Reconstruction:</p> 	

4) 2011 年 東日本大震災

Item	Sub-item	Information	Data Source
Data on Hazard	Date and Time of Occurrence	2:46PM, March 11, 2011(JST), 05:46 (UTC)	JMA
	Magnitude Depth	Mw. 9.0, Mj 8.4, 24 km (JMA) M.9.0 (USGS) Mw 8.8, 23.7 km (Univ. of Tokyo)	JMA USGS ERI-UT
	Epicenter	N38.1, E142.9 (130km ESE off Oshika Peninsula) Off Pacific Coast of Tohoku (North East) Region, Japan	JMA
	Intensity of Shaking	JMA Intensity scale:7, Max. Ground Acceleration: 2933gal	JMA K-NET