Third Meeting Regarding 4-lateral Exploration of Risk-based Flood Management Approaches 14-16 June, London, UK

List of the (potential) topics from Japan for the final documents and their categorization in the framework

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List of the (potential) topics from Japan for the final documents 1/2

- a. Geographical background to govern past and future flood disaster mitigation policy. "Pattern" of flood disaster mitigation policy development.
- b. Comprehensive (river basin based) flood disaster mitigation policy under the intense stress of rapid urbanization.
- Flood disaster risk assessment for a mega-city (metropolitan areas) to improve preparedness and emergency response.
 (Investigated by the Committee for technical investigation on large-scale flood countermeasures, Disaster Management Bureau, Cabinet Office)
- d. Nation-wide risk assessment of small- and medium-scale river flooding by using LIDAR topographical survey to cope with the deficiency of data.
- e. Super levee.
- f. TEC-FORCE (Technical Emergency Control Force for Disaster Assistance).
- g. Institution for quick recovery of damaged infrastructure.
- h. Local community-based and legally supported flood fighting corps.
- i. PDCA levee safety improvement program. R &D on strategic control of levee surface conditions (vegetation, etc.).

List of the (potential) topics from Japan for the final documents 2/2

- j. River channel management taking into consideration active geomorphic responses to channel widening to meet urgent need for increasing flood flow capacity.
- k. Levee break flow analysis for assessing the risk of house washing away adjacent to levee.
- Future and near-future projection of changes in extreme precipitation events under the GCC by an super-high-resolution GCM and RCM developed by MRI and its application to assessing additional risk and impacts on planned flood mitigation policy.
- m. X-band radar utilization for preparing for "guerilla-type" torrential rain in urban areas.
- n. Sophisticated hazard map and utilization of IT prevalent to the public.
- o. Coupling of "limited" flood protection (e.g., polder construction) and land use regulation including buyout.
- p. "Climate Change Adaptation Strategies to Cope with Water-related Disasters due to Global Warming", Policy Report by Panel on Infrastructure Development, MLIT, June 2008.

Topics categorization in the framework

		Executed (evaluated)	Latest development	R&D stage	Others
Risk based flood management: a conceptual framework					
Risk assessment	National level		c, d		
	Regional/Local level			k	
	Future developments		L	L	
Policy development: selection of measures	National level		(p)		
	Regional/Local level				
	Specific items				
Executive aspects	Mitigation (structural?)	b, e, I, o	i, j, L	i, j, L	
	Preparedness	b, f, h, n, o	c, m	m	
	Response	(b), f, h, n	c, m	m	
	Recovery	g			
Concluding remarks, best practices					
Topics for collaborative action, research					
Characterization of flood risk in each country (Annex)					a