The Built Environment Professions in Disaster Risk Reduction and Response

A guide for humanitarian agencies







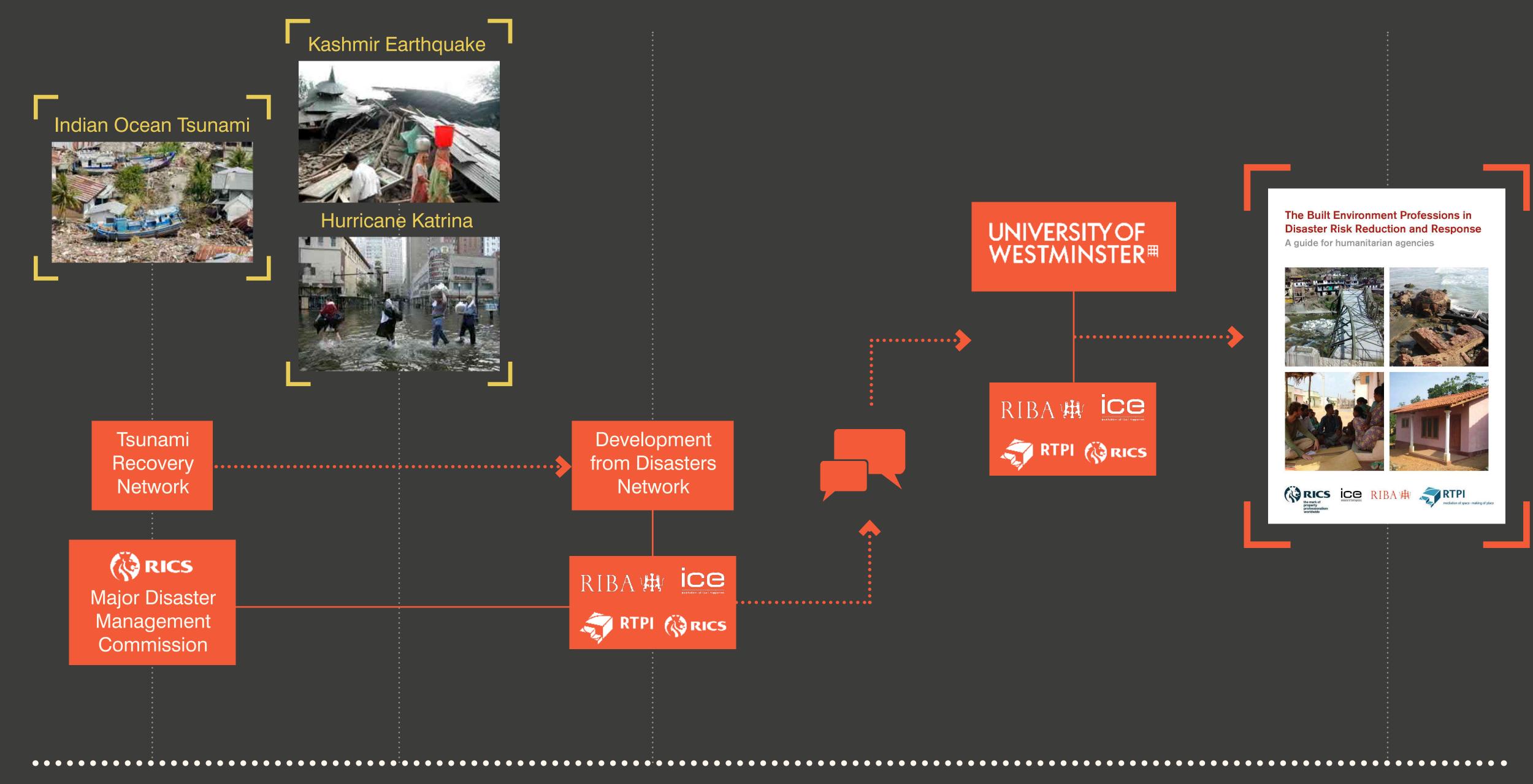










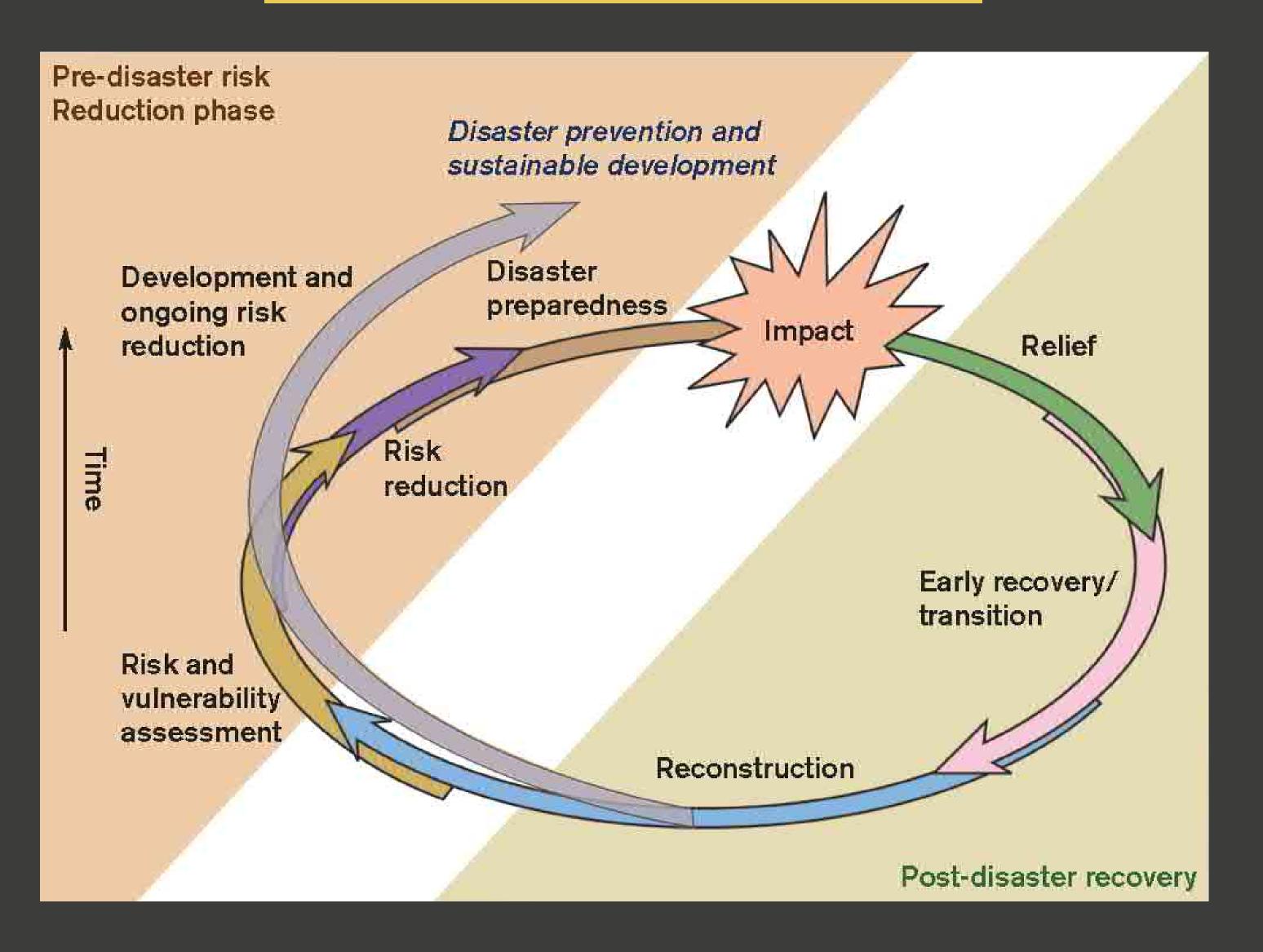


2004 2005 2006 2009

Challenges in deploying built environment professionals

- Lack of understanding of what each discipline does
- Overlapping roles and expertise
- Misunderstandings through professional jargon
- Lack of information on how to employ a built environment professional

Disaster Risk Management and Response Spiral



Activities	Roles of professionals			
Phases ¹⁴	Architects	Surveyors	Planners	Engineers
Risk and vulnerability assessment				
Disaster risk reduction and mitigation				
Disaster preparedness and pre-disaster planning				
Emergency relief				
Early recovery/transition				
Reconstruction				
Post reconstruction development and review				

Disaster stage

Role of built environment professionals within activity

Roles of professionals **Activities** Architects Surveyors Engineers Logistical planning Advise on costs and Provide technical solutions Evaluate local access for delivery of material and procurement of goods and issues and plan for Establishing access to disaster struck areas and people to affected areas services, Establish land transportation and planning for provision of emergency supplies and and secure storage of rights and rehabilitation for storage/shelter for access for relief workers is a key challenge essential supplies. economic and subsistence supplies, services and facing agencies in the immediate and often rescuers to the disaster. chaotic aftermath of disaster. Ensuring land and area. Establish the priority securing harvests, seeds livestock and food needs and requirements of production often takes priority over shelter in affected communities. rural communities in developing countries. Design relief shelters for Technical design of relief Relief shelters and sheltering material Advise on procurement of Estimate the demand for dwellings as well as larger structures for bulk shelters: work with local relief shelter, including Relief shelters may be needed to protect people from the production/use: ensure structures for essential authorities and number, types and elements after a disaster. They have to be strong, microservices such as medical communities to make the designs are safe in the locations; consider climatically appropriate and easy to install. They should facilities and vulnerable best use of local skills and aftermath of disasters (e.g. medium/long-term issues also be sensitively designed for habitation by people who groups that need special safe from aftershocks in labour. associated with shelter are likely to have been traumatised. They may be in active accommodation such as earthquake affected locations and design (e.g. use for several years after reconstruction has been the sick and injured. implications on income if areas); ensure that shelters underway, so a degree of durability is also helpful. Designs shelters are some distance are safely located. should be lightweight and removable to permit re-use from employment locations). Project planning and management Develop survey methods to Develop property survey Initial assessment of Provide an assessment facilitate the repair and methods; analyse infrastructure recovery and delivery plan for of Once basic and essential services are re-established, there is an immediate need for professionals to establish reconstruction of procurement and funding requirements, particularly emergency civil works good lines of communication with each other, the local community and the relevant authorities. A co-ordinated dwellings, vital facilities. requirements addressing such as restoring access. access, energy, water and response is required to assess the immediate and medium term priorities for affected communities and local community. shortages in material and food storage. Liaise with roads, providing temporary authorities, come up with a strategic action plan and plan, manage and implement recovery projects. labour. Review the reuse of stakeholders and the bridges, power generators buildings and heritage buildings. local material and local community and and water tankers. establishing feasible labour capability. strategic plans for the area in the medium term.

Activities within disaster stage

Need for a reissue:

- Align with the <u>current condition of</u>
 DRR+R
- Widen the agenda to include urban resilience, climate change, urban crises, conflict and population displacement
- Include recent experiences from the built environment professionals within DRR+R

What is the current value of built environment professionals in disaster risk reduction and response?

Breakout Sessions

What is the current value of built environment professionals in the...

- 1) risk reduction and mitigation
- 2 emergency relief
- early recovery/transition

...stages of the disaster risk management cycle?