

# First Workshop on Strengthening Integrated Flood Risk Management

Project context and practical issues  
for flood management

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Flood Risk Management

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# Project components

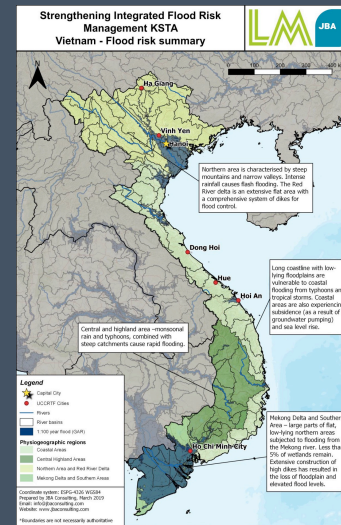
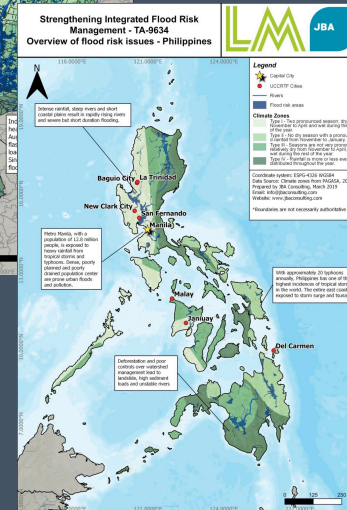
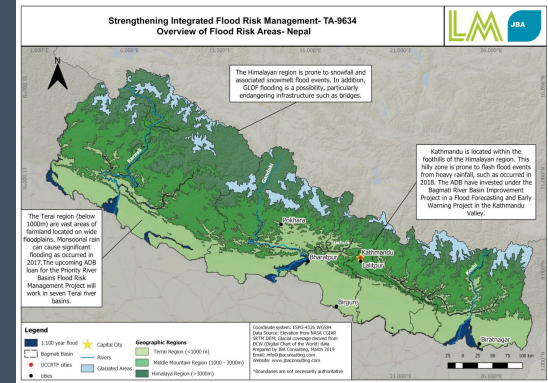
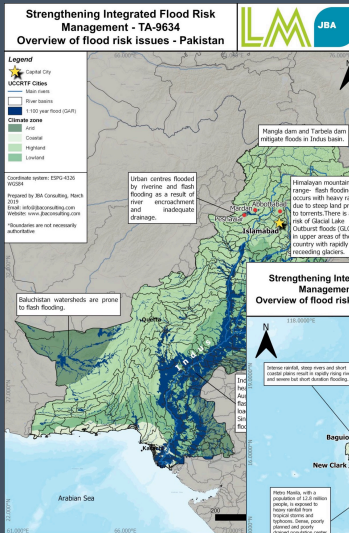
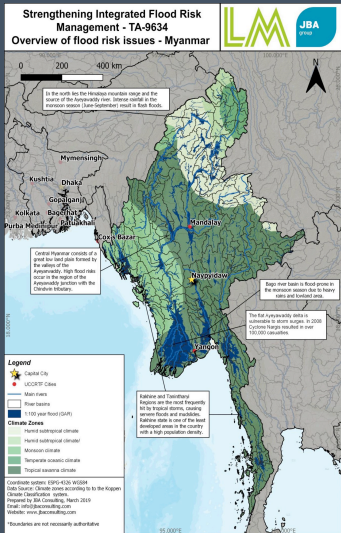
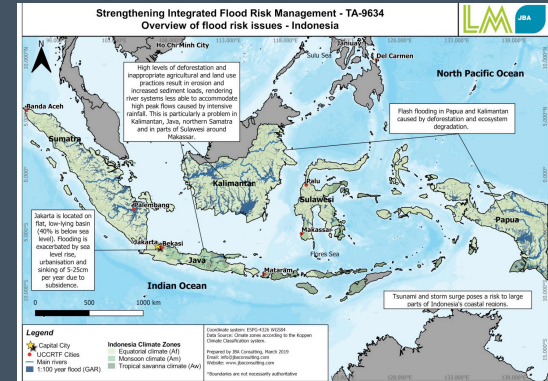
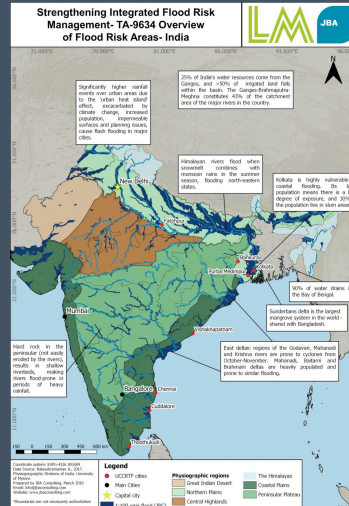
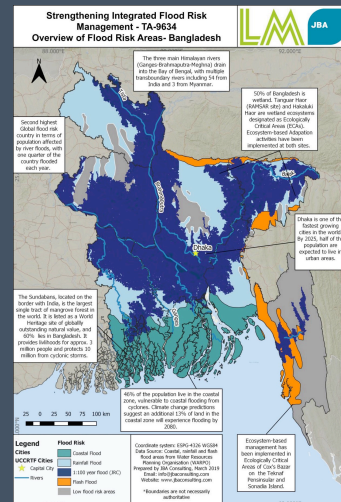
1. Knowledge
2. Assessment
3. Support

# Knowledge

- Compendium and position paper
- Practical guide on IFRM
- Technical notes
  - Insurance
  - Financial analysis
  - Others

# Assessment

## Country sector assessments





## Support for project related activities

- **India:** Flood mapping, Chennai drainage master plan
- **Indonesia:** National flood roadmap
- **Myanmar:** Analysis for dam safety
- **Nepal:** National analytics for floods, urban planning
- **Philippines:** Coastal flood risk modelling
- **Viet Nam:** Support for flood risk management actions in northern river systems

# What trends have we observed

- Emerging interest (capacity) for technology
  - flood forecasting and warning systems
  - Flood modelling and assessment tools
  - But data remains an issue
- Rapidly developing urban areas
  - Increased awareness of livability issues
  - But contrasts between rich and poor
- Higher community expectations for reduced flood risk
  - Increased affluence means more value at risk
  - But noticeable deterioration in urban environment
- An awareness that the climate is changing
  - But uncertainty as to how to plan for this or manage investment

What is

**INTEGRATED FLOOD  
RISK MANAGEMENT?**

# Management vs control

- Previously “*flood control*” or “*flood prevention*”
- “Management” infers steering rather than control
- Previously the assumption was “*fail free*”  
but now the objective is “*fail safe*”  
(the impact of the flooding is being *managed*)

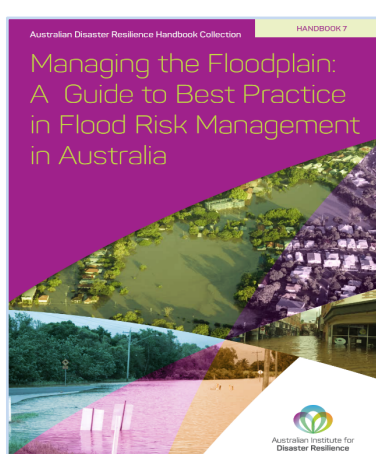
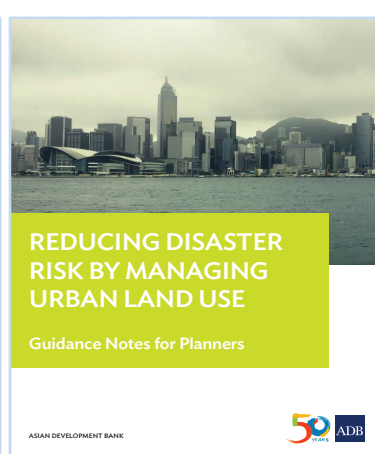
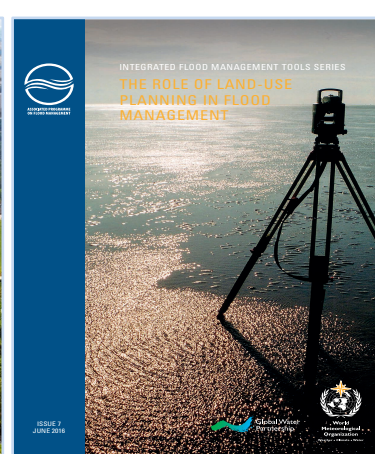
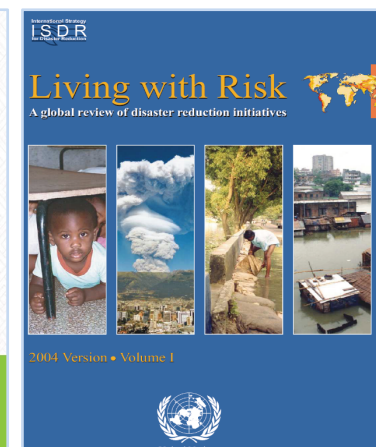
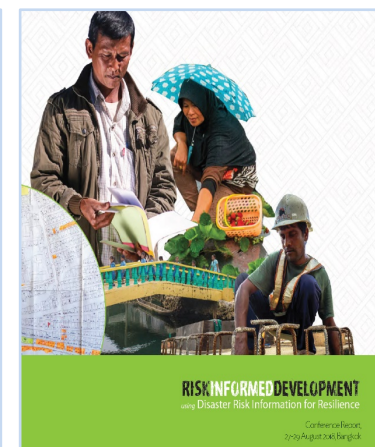
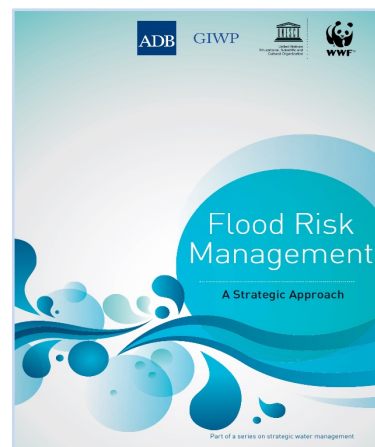
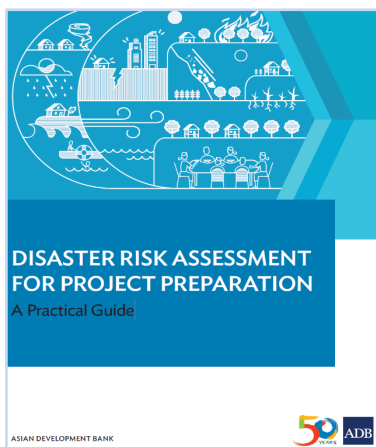
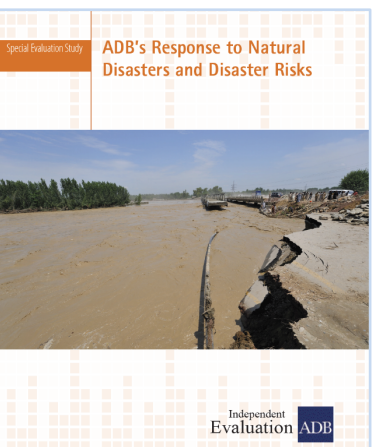
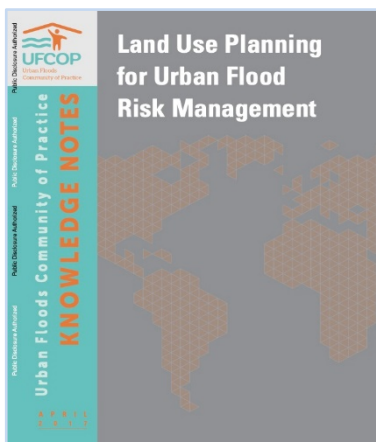
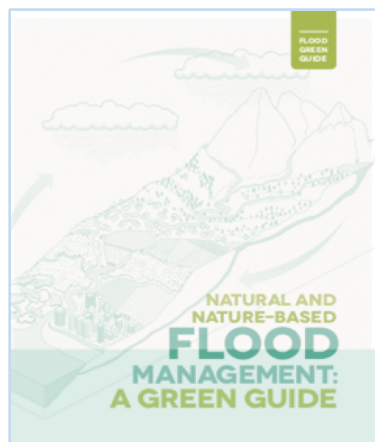
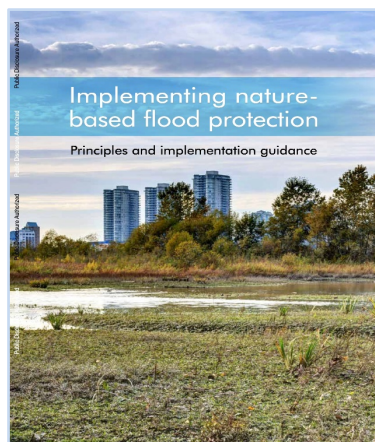
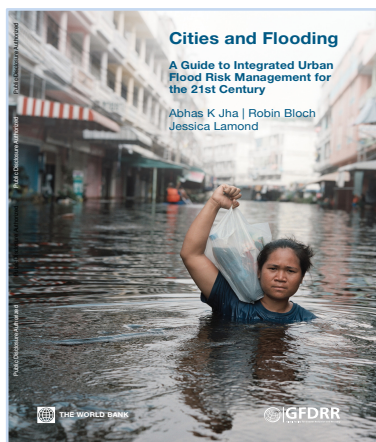
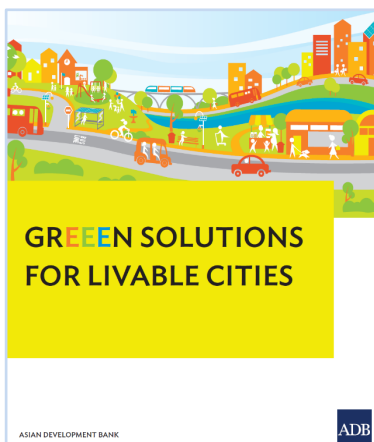
# Risk management

- Risk is the possibility of a loss
- Possibility is a probability or a likelihood
- Loss:
  - Death or injury
  - Direct or indirect damage
  - Intangible damage
  - Opportunity loss

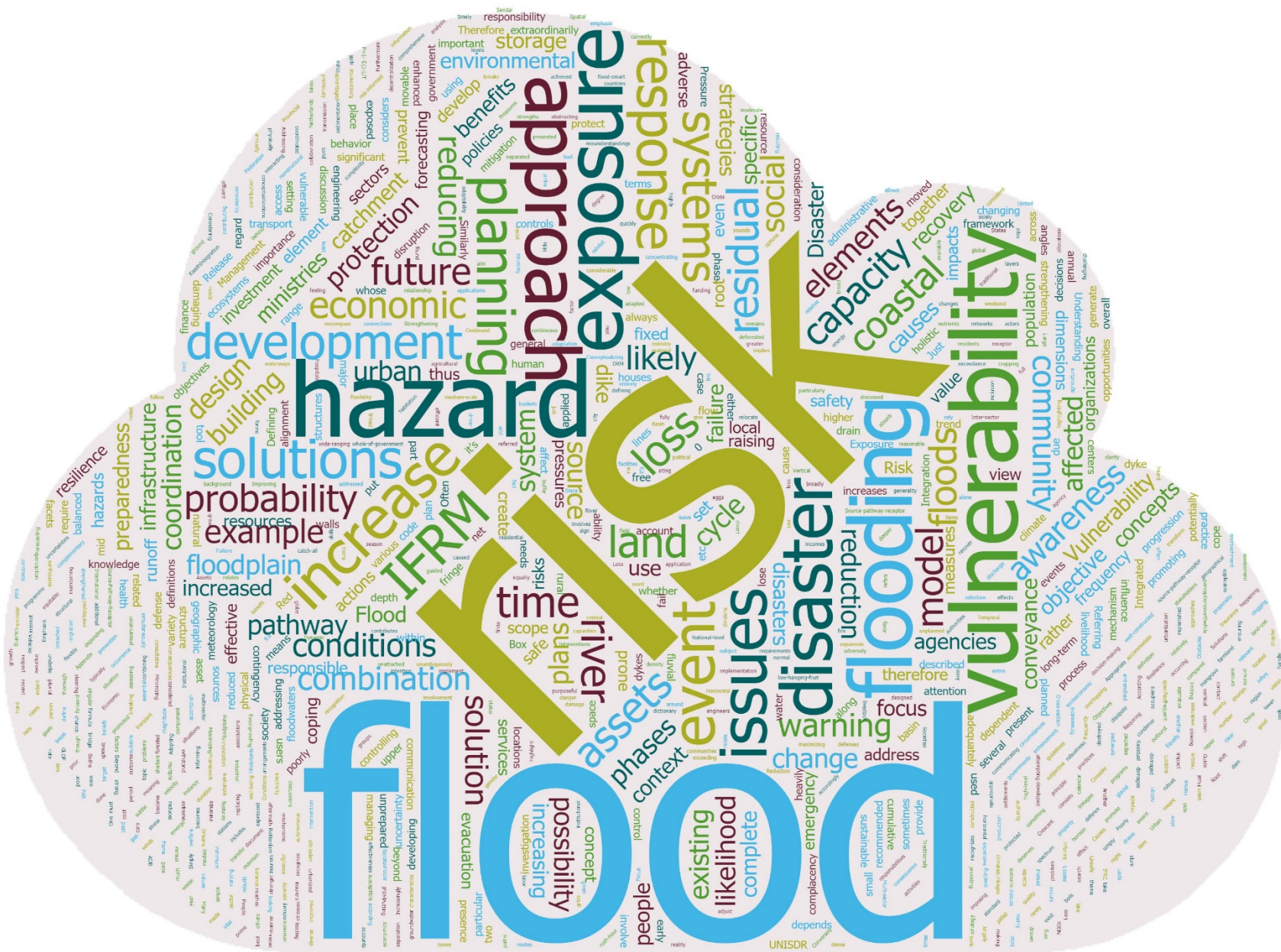


# Integrated

- “Integrated” is the catch-all that recognizes the range of issues and stakeholders







# PARTICIPATION EXERCISE

## Question 1

You are ***Minister for Water Resources*** in your country and you are discussing budget allocations with the Prime Minister and Ministers from other sectors.

How do you convince the other ministers that more of the national budget should go towards flood management.

What issues do you raise? Why is flooding important?  
List 3 or 4 points.



## Question 2

Your budget request has been very successful. Your program has been allocated more than money than ever before.

Given almost unlimited funds for flood management, where do you allocate these funds?

List 4 or 5 main areas or activities.

## Question 3

Your budget request has not been successful. Only a very small amount of money has been allocated.

Given very limited money flood management, where do you allocate these funds? What gives you most value for the cost.

List 4 or 5 main areas or activities.

**RESPONSES**