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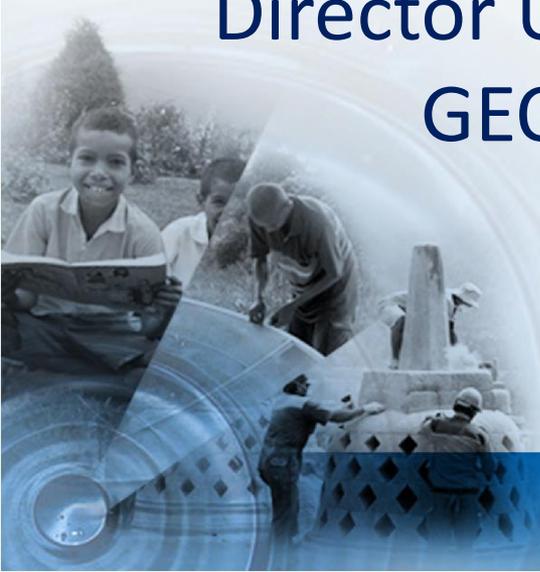


# Regional Coordination of Science & Technology on Water

Prof Shahbaz Khan

Director UNESCO Regional Science Bureau

GEOSS AWCI, 12 January 2017





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# Global Context



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# Global Space for Action

Sendai Framework  
for Disaster Risk Reduction  
2015 - 2030



UN Conference on  
Small Island  
Developing States  
Apia, Samoa | 2014



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International  
Hydrological  
Programme

# Current UNESCO Water Actions

## UNESCO's Intergovernmental Scientific Cooperative Programme in Hydrology and Water Resources since 1975

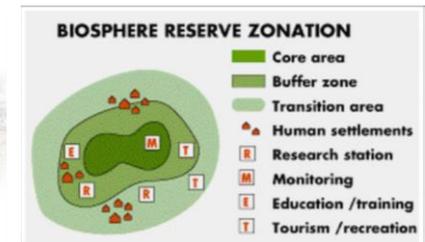
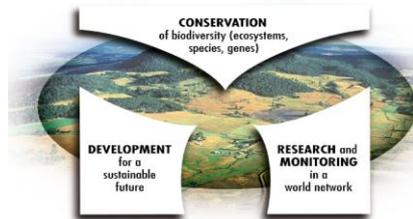
UNESCO INTERNATIONAL HYDROLOGICAL PROGRAMME EIGHT PHASE (2014-2021)  
UNESCO-IHP-VIII: "WATER SECURITY Responses to Local, Regional, and Global Challenges"



- Risk management as adaptation to global changes
- Understanding coupled human and natural processes
- Benefiting from global and local earth observation systems
- Addressing uncertainty and improving its communication
- Improving the scientific basis to extreme hydrological events

# Fostering Synergies Between UNESCO Natural Sciences Programmes

- Man and Biosphere programme:
  - Biosphere Reserves



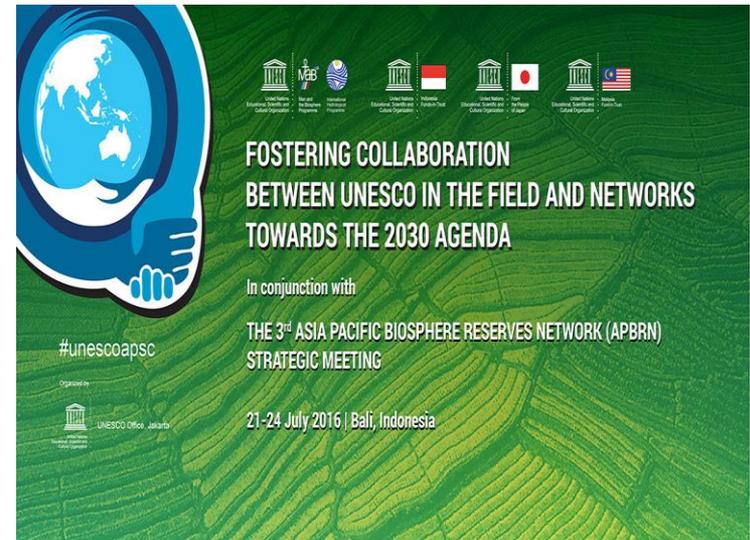
- International Geoparks and Geosciences Programme:



UNESCO  
Global  
Geoparks

Geopark : territorial entity focusing on

- Natural Resources
- Geological Hazards
- Climate Change
- Education
- Science
- Culture
- Women
- Sustainable Development
- Local and indigenous Knowledge
- Geoconservation





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# Fostering Regional Cooperation

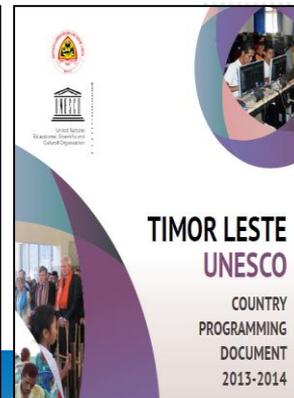
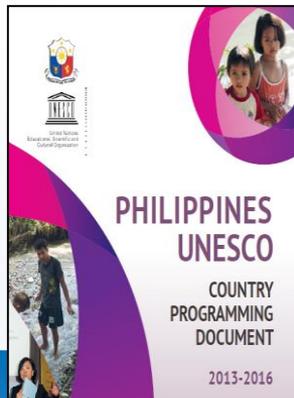
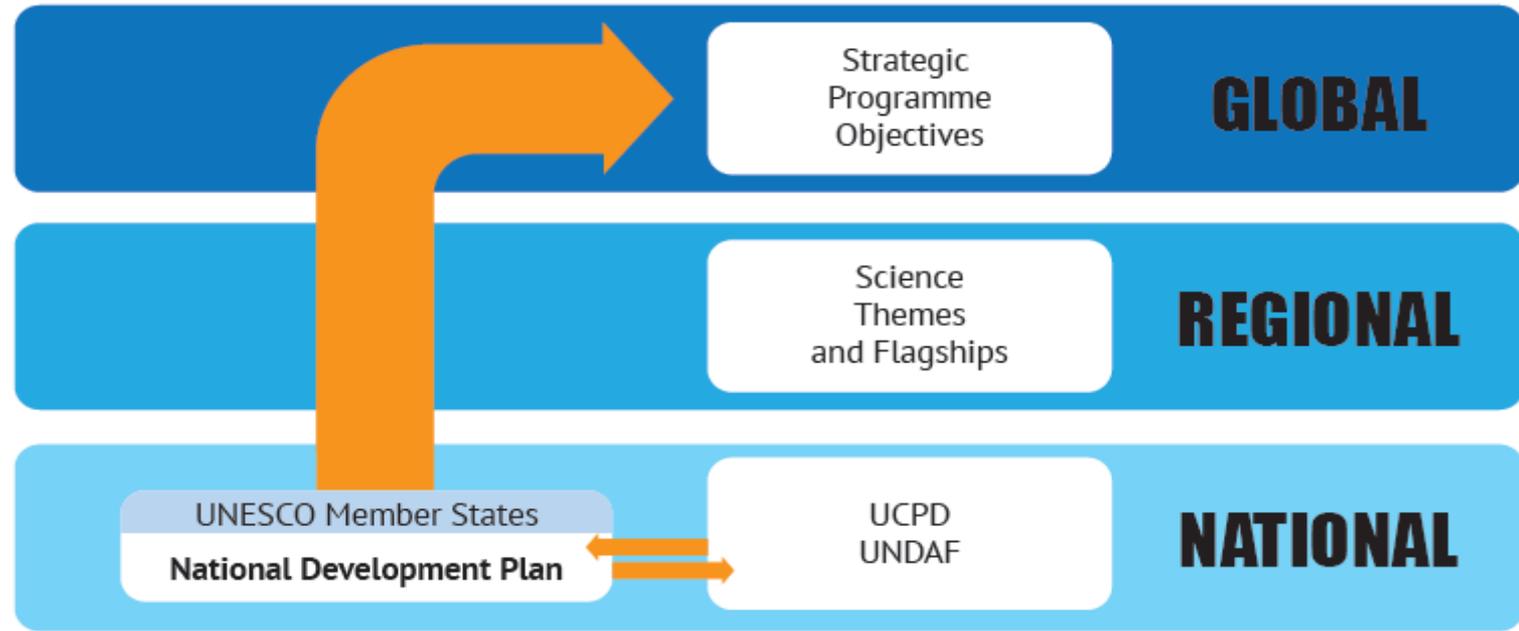


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# Regional Science Bureau Science Strategy



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グローバル 地域 各国の中期推進計画目標を結ぶ

# Framework Agreement for Cooperation between UNESCO and ASEAN

## Priority areas

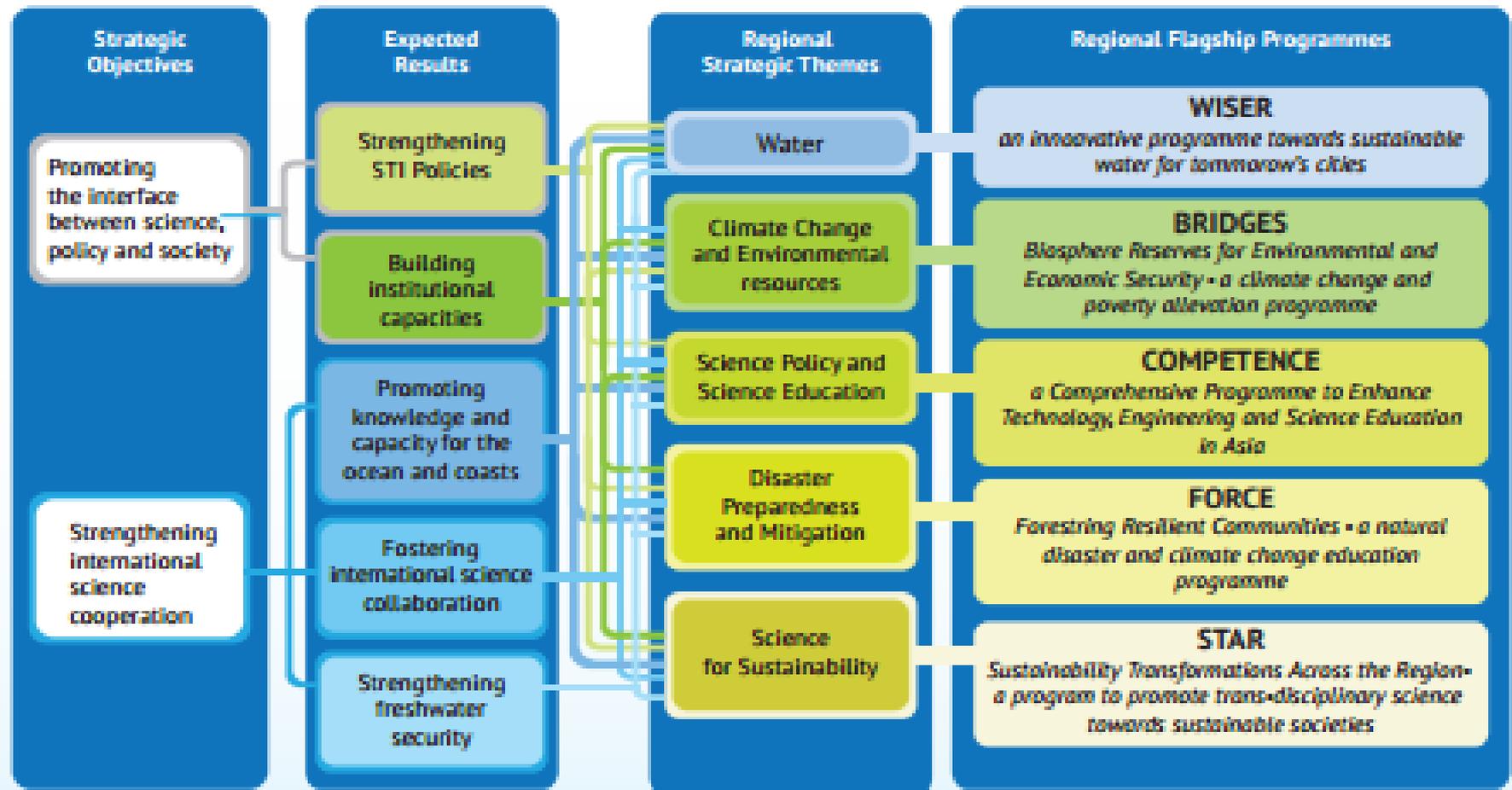
- Education,
- Science technology and innovation;
- Disaster risk education;
- Environmental sustainability (*Climate change and its impacts, water security*);
- Social and human sciences;
- Culture;
- Communication and information.





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# Regional Science Bureau Science Strategy



# Regional workshop of UNESCO Natural Sciences Centres and Chairs in Asia and the Pacific

- Mapping and Networking of UNESCO's Natural Sciences related Category 2 Centers and Chairs to support the Post-2015 Development Agenda in Asia and the Pacific



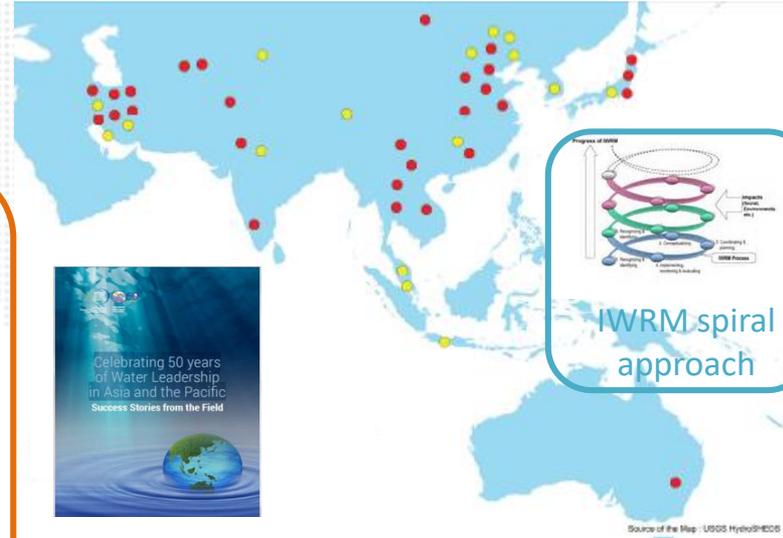
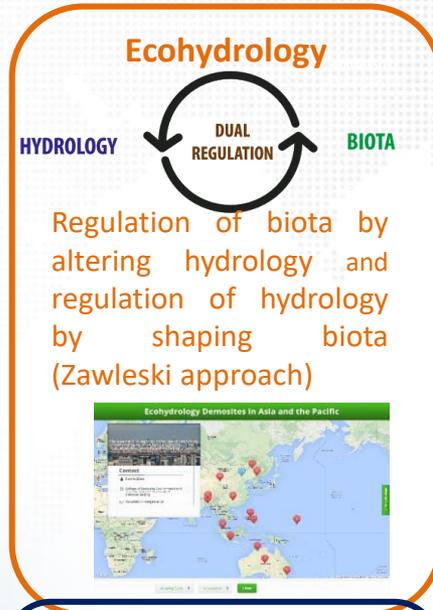


# UNESCO-IHP in the Asia Pacific Region

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International Hydrological Programme

- 17 IHP National Committees
- 6 UNESCO Water Centres among 15 Science Centres
- 6 UNESCO Water Chairs among 28 Science Chairs in the Asia Pacific Region.
- Regional Steering Committee for Southeast Asia and the Pacific.
- International Flood Initiative Secretariat
- International Drought Initiative Secretariat



- UNESCO Natural Sciences Category-2 Centers in Asia and the Pacific
- UNESCO Natural Sciences Chairs in Asia and the Pacific



RESEARCH      POLICY ADVICE      CAPACITY BUILDING



# SDGs Goal 6: Ensure availability and sustainable management of water and sanitation for all





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# Ongoing JICA funded project Strategic Strengthening of Flood Warning and Management Capacity of Pakistan- Phase 2



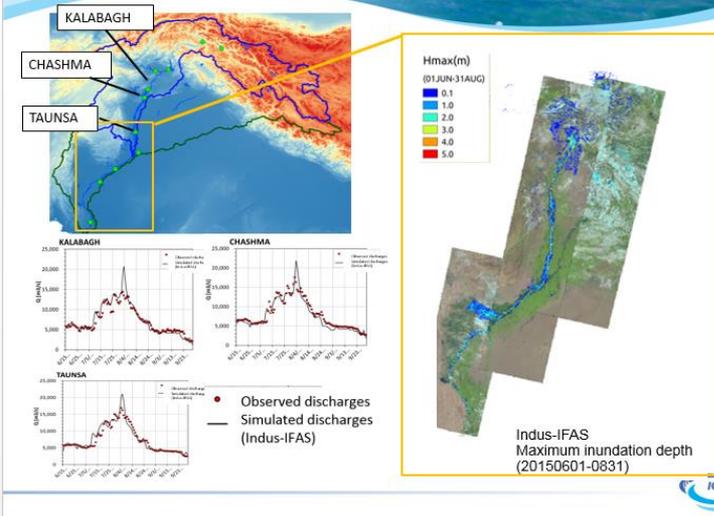
Introduction of Mr Aziz Aimaq, director  
ANDMA and Mr Farhad Nayyer, Modeller  
MEW Afghanistan to Mr Riaz, Chief  
Meteorologist, FFD in presence of ICHARM  
(Mr Iwami, Dr Tsuda) , 22 April 2016

**A.** Establishment of the technical foundation for sustainable capacity development on the flood management, forecasting, early warning and flood hazard analysis in Pakistan agencies

**B.** Technical studies to promote strengthening of cooperation with Indus river basin countries for transboundary flood management and transboundary data sharing

**C.** Capacity building and education to community on flood management for proper utilization of flood hazard information and tools

## Indus-IFAS Simulation result for 2015 Flood season





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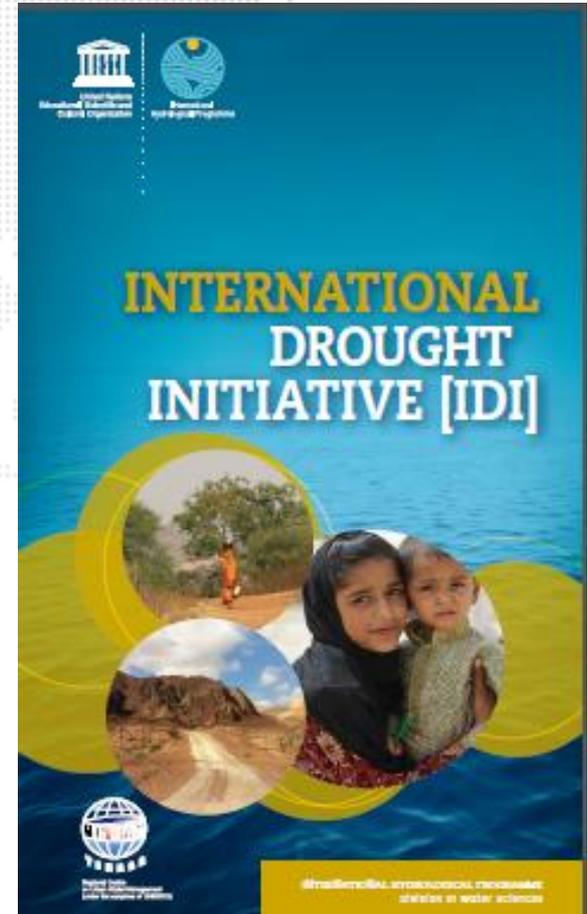
# Water related disasters Initiatives



In Close Collaboration with:



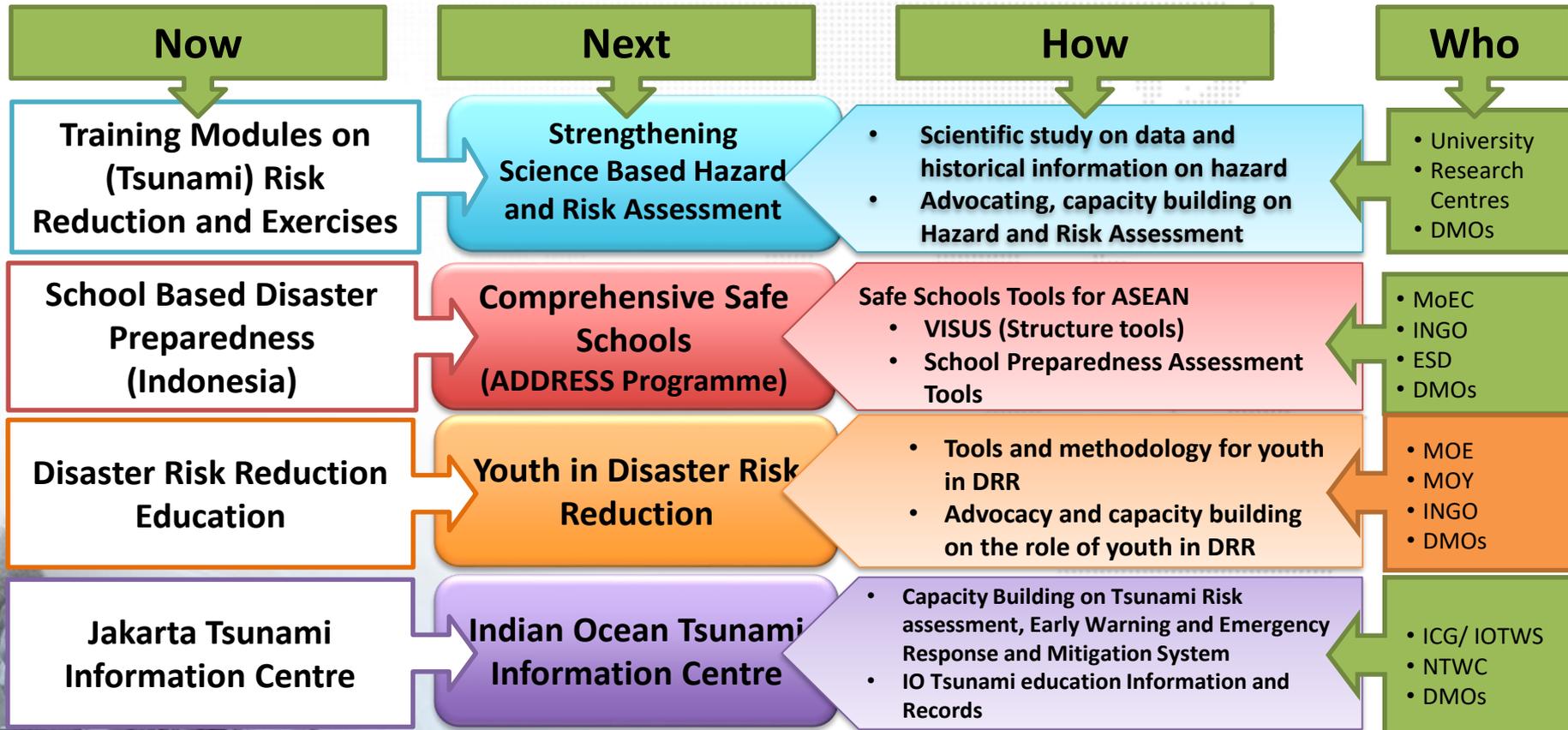
UNESCO office Jakarta to contribute case studies  
in Asia and the Pacific region.





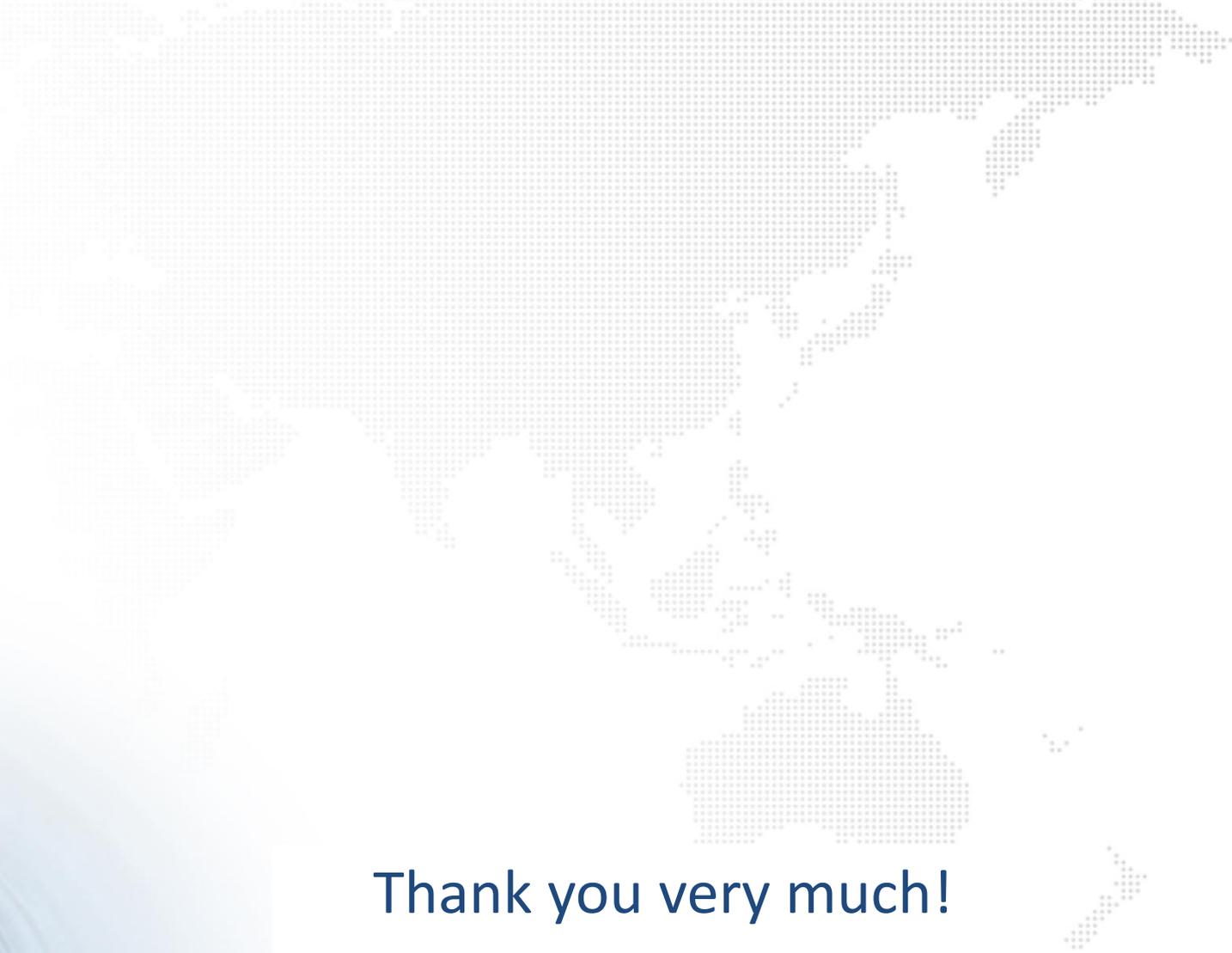
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# DRR Programme and Activity 2016-2017





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Thank you very much!

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