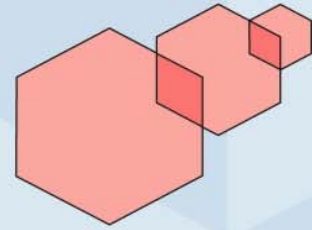


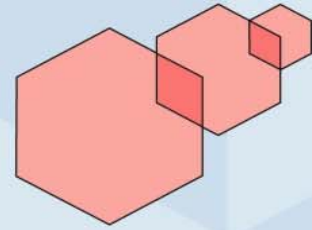
Follow-up of the HELP/UNSGAB Action Plan



UNU Activities

Fabrice Renaud
Associate Director
UNU-EHS
Bonn, Germany

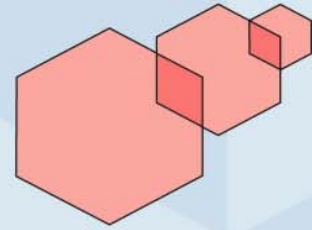
Training Programme (UNU-ISP)



- UNU with its links to both academia and government agencies is in a unique position to carry out effective capacity development programmes involving both academia and implementing agencies

- From an expert meeting in 2003 to which 15 countries of the Asia Pacific region participated, a joint action programme focusing on assessing extreme flood risks and developing response plans was designed:
 - Building on case studies a training program comprising of 3 modules: rainfall downscaling, GIS and inundation modeling has been developed
 - Training of trainers; Country training; Post graduate research

Training Programme (UNU-ISP)

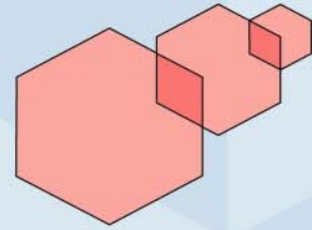


- **Module 1 - Downscaling system:**
 - Use global forecasts (GFS data sets)
 - Weather Research and Forecasting (WRF) Model of NCAR, USA used for downscaling
 - Use for scenario modelling and forecasting

- **Module 2 – Inundation modelling & Flood damage estimation:**
 - Hydrological models
 - Damage estimation models

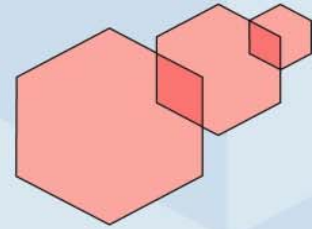
- **Module 3 – GIS systems**

Training Programme (UNU-ISP)



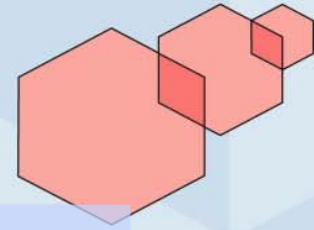
- First training session in 5 countries in 2007:
- Organized by UNU (1.5 months in two sessions)
 - Resources from: UNESCO-IHE; Monash University, Australia; Nippon Koei Co., Ltd.; AIT, Thailand
 - Participants - Faculty from a **University** and **Professionals** from the **organization responsible** for flood control - *training of trainers*
- Flood Web Tutorial available online:
 - Water harvesting and flood risk management
 - Floods and landslides
 - International river basins
 - Resilience of coastal cities

Risk and Vulnerability Training Course (UNU-EHS and UNU-CUSA)



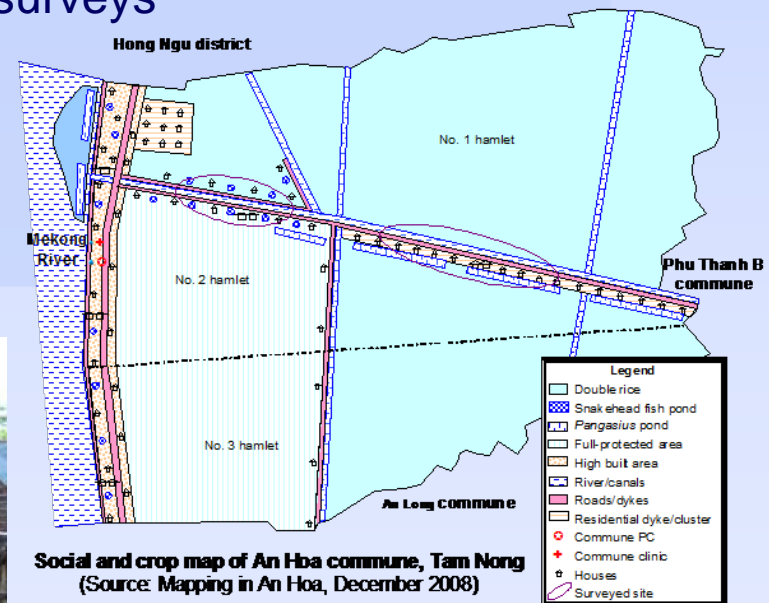
- Objective is to offer a training courses for young scientists and mid-career professionals on vulnerability and risk assessment
- Offered at three venues:
 - UNU in Bonn, in collaboration with the University of Bonn
 - Disaster Management Training and Education Centre for Africa (DiMTEC) at the University of the Free State, Bloemfontein, South Africa
 - University of Novi Sad in Serbia
- Flood is among various hazards addressed in the course, building on knowledge developed through conceptual research and applications in various case study areas in different countries
- Contribute to Item #5 of the Action Plan

WISDOM project – flood component from UNU-EHS



➤ Dong Thap Province

- Focus on:
 - Effectiveness and consequences of relocation
 - Living along new residential clusters on dykes
- Methods include PRA and household surveys
- Use of statistical tools
- Vulnerability profiles



A residential cluster in inland area,

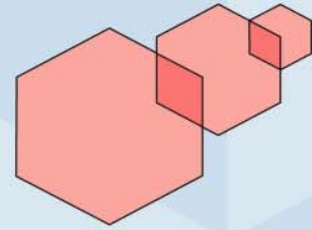
Tam Nong, 2008c



“Adaptive” house in riverbank area,

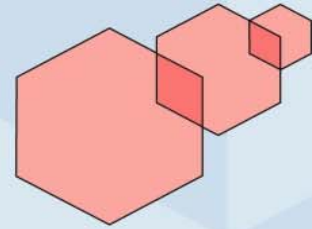
An Hoa, 2009

MOVE project – Flood component from UNU-EHS



- Starting point: No common framework for the definition and measurement of vulnerability with regard to its physical, social, economic, environmental, cultural and institutional nature
- Objectives:
 - Review and compare approaches
 - Provide a generic framework for the definition of the *transdisciplinary* concept of vulnerability
 - Different methodologies will be used to identify and measure particular features of vulnerability in a holistic way
 - Case study in Cologne-Bonn metro area:
 - Flood is one type of hazard considered
 - Example: look at environmental dimension of vulnerability focusing on ecosystem services
- Contribute to various points of the Action Plan

Synergies between Network Example: PEDRR



- UNU-EHS is a member of the UN/ISDR Partnership for Environment and Disaster Risk Reduction:
 - ADPC, GFMC, IUCN, ProAct, SEI, ISDR, UNEP, UNU-EHS, WWF
 - Objectives:
 - Promote and encourage the use of an ecosystem approach (where appropriate) in the implementation of the HFA
 - Guide and assist in the coordination of environmental efforts activities within the ISDR system
 - Promote the integration of DRR into the ecosystem approach as applied by the environmental and sustainable development community worldwide
 - Expertise from this network could be shared with responsible entities working on the accomplishment of the Action Plan

Thank You

