

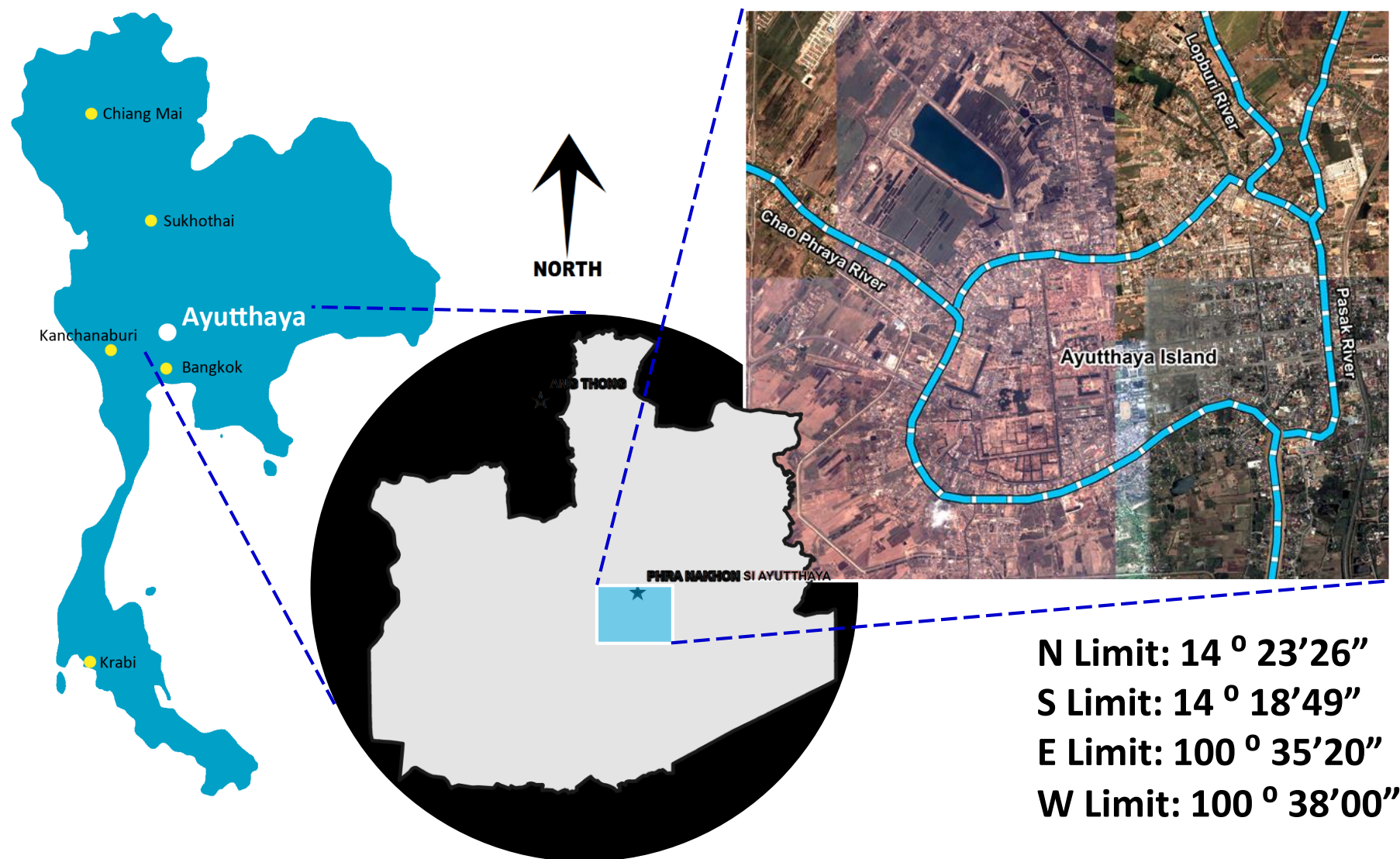


Community Based Risk Management Approach for Urban Flooding, the Case of Ayutthaya, Thailand

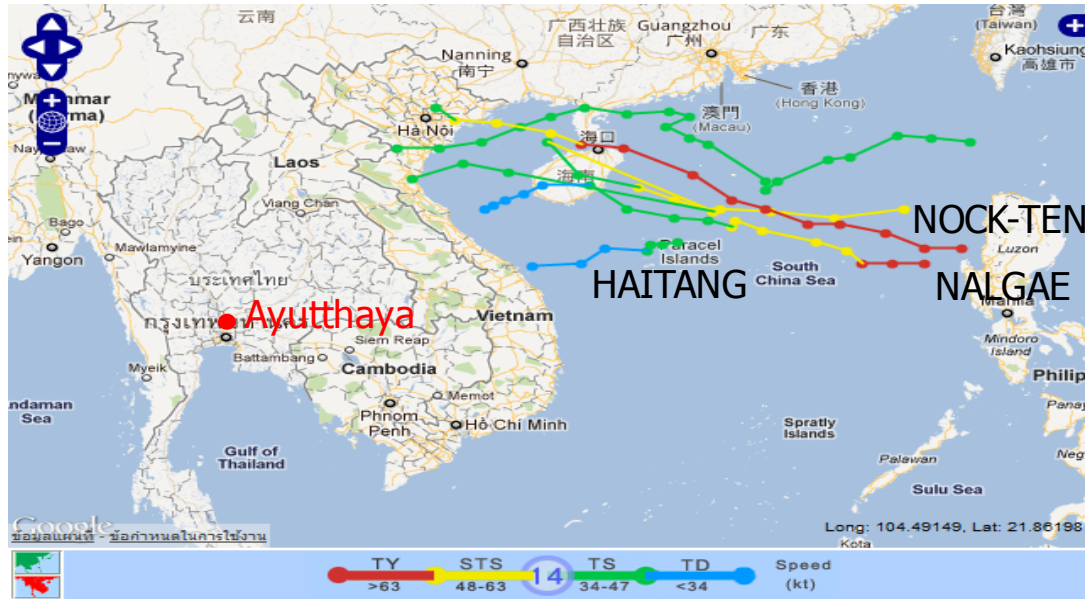
Zoran Vojinovic

UNESCO-IHE, Institute for Water Education, Delft, Netherlands

Project Area – Ayutthaya



2011 Floods - Ayutthaya



5 storms occurred, namely:
HAIMA (26 Jun.),
NOCK-TEN (31 Jul.),
HAITANG (28 Sep.),
NESAT (30 Sep.) and
NALGAE (5 Oct.)

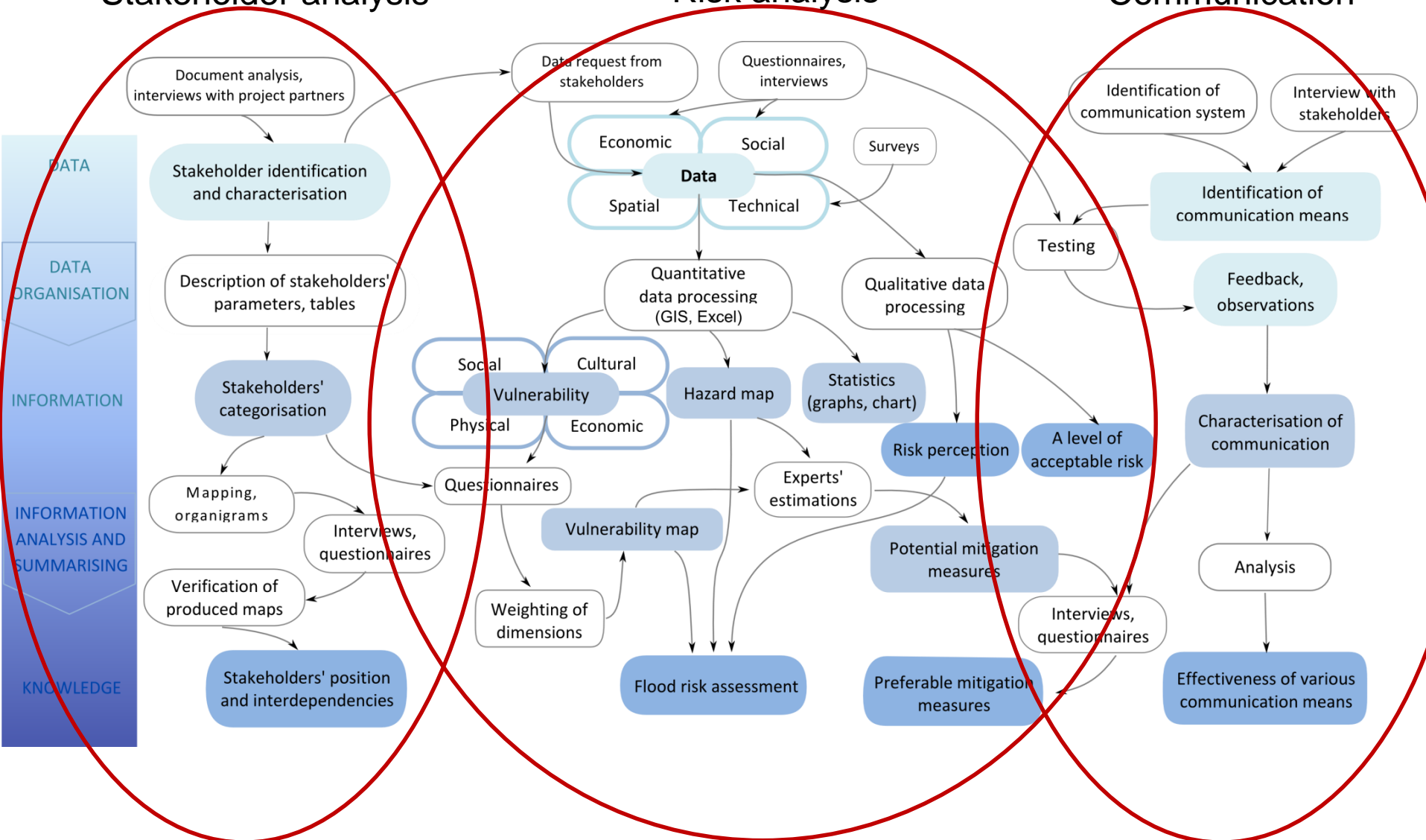







Holistic Framework - steps

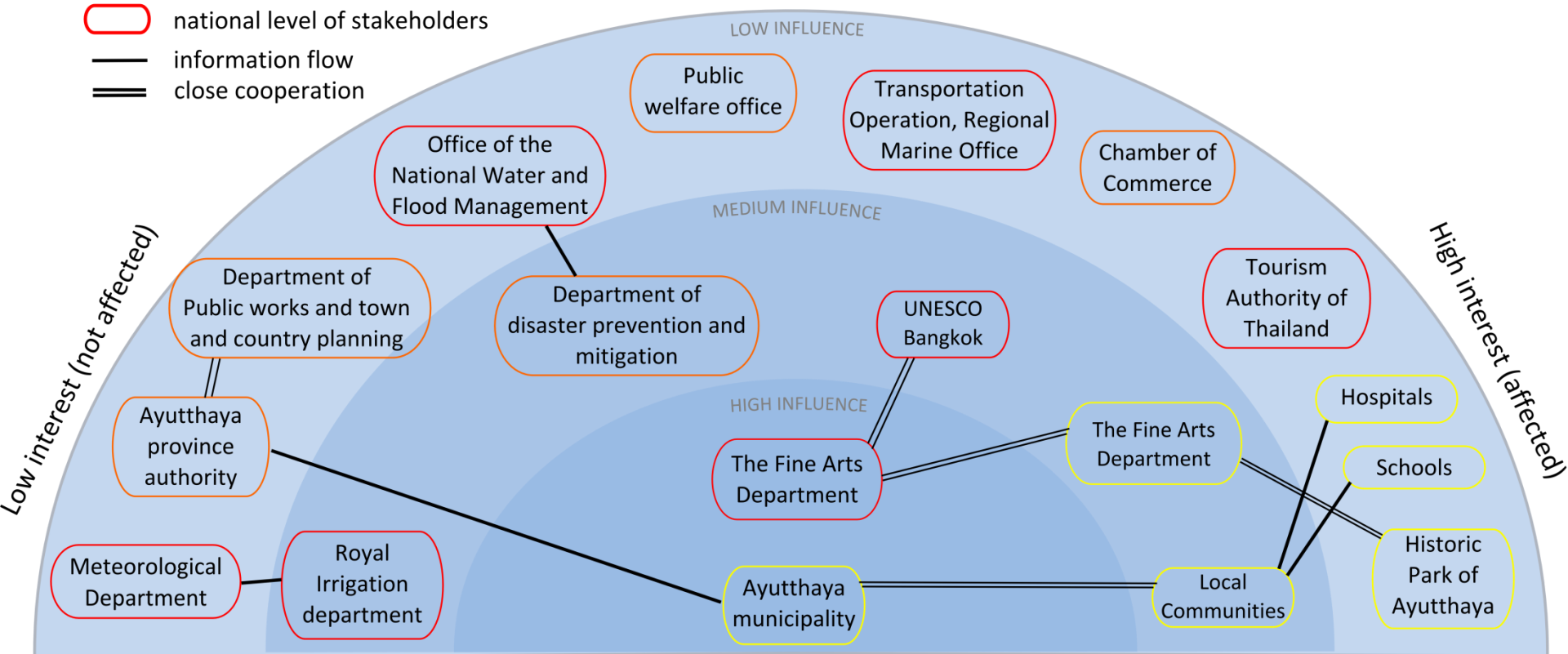
Stakeholder analysis

Risk analysis

Communication



-  local stakeholders
-  provincial level of stakeholders
-  national level of stakeholders
-  information flow
-  close cooperation

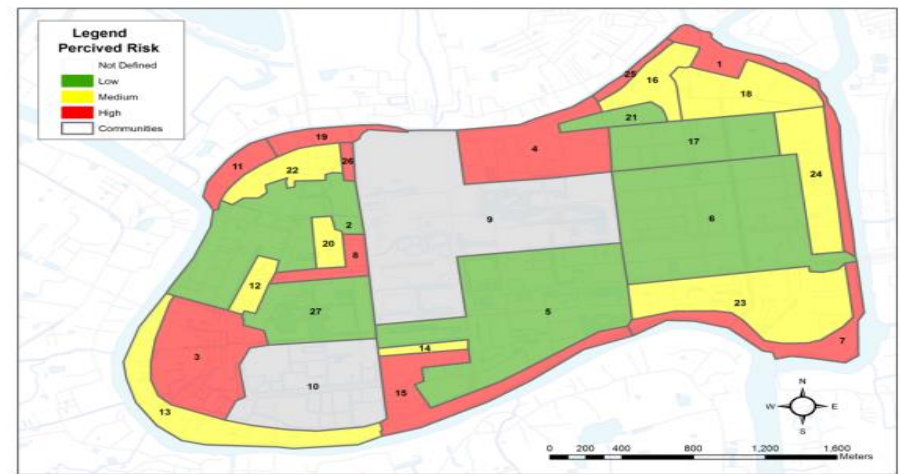
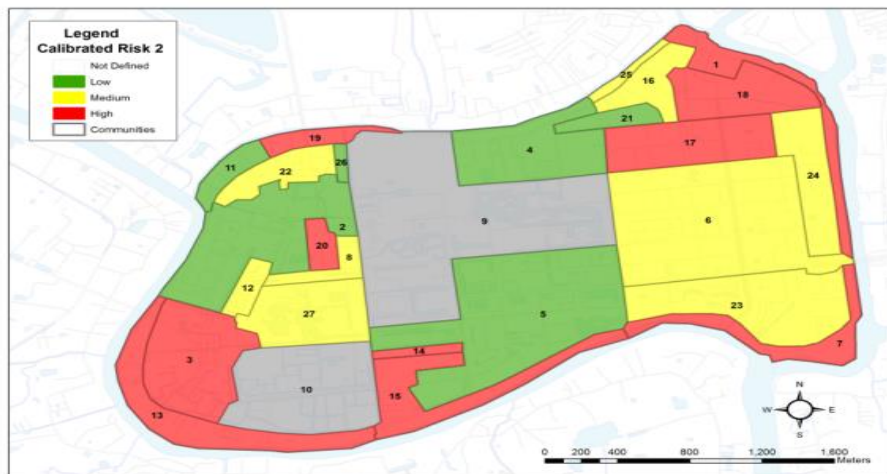


Risk Analysis

Traditional vs. Holistic

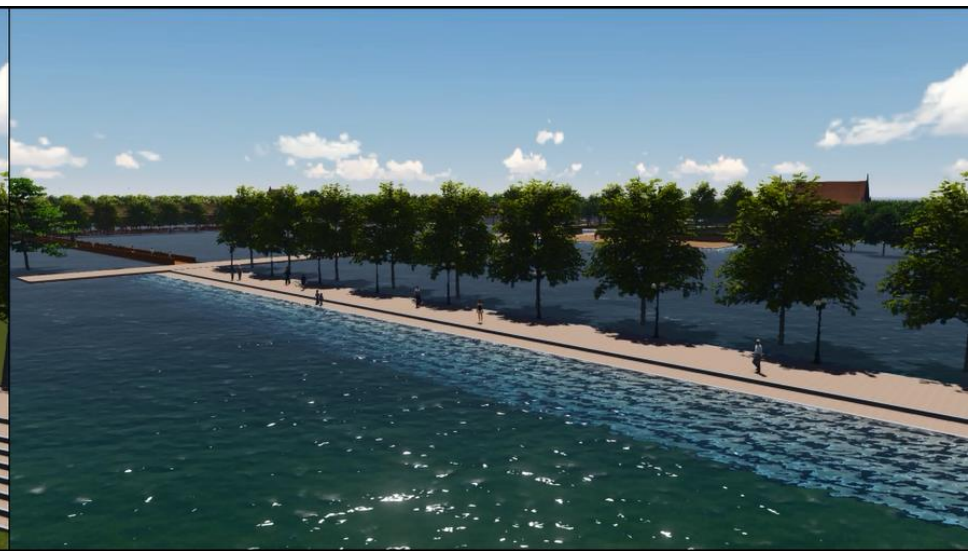
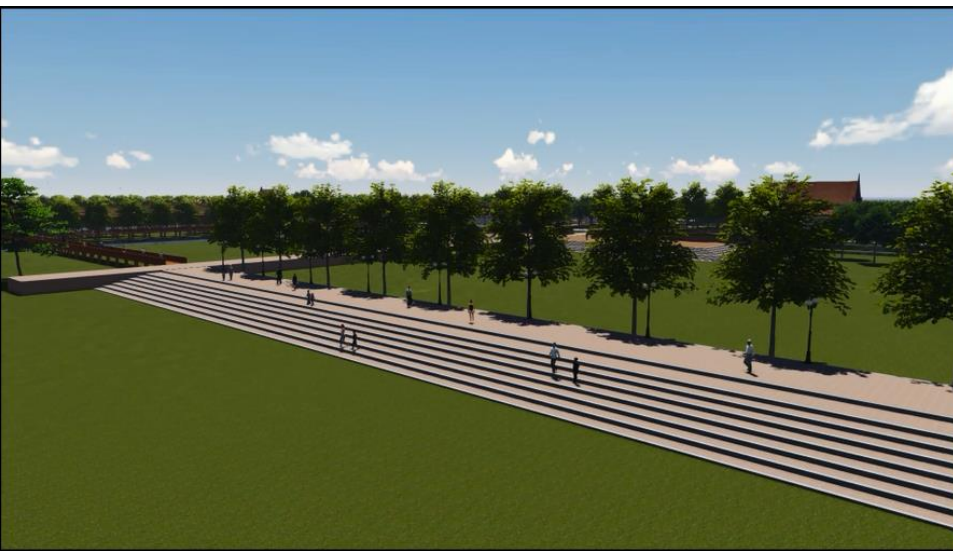
- Disciplinary - partial
 - Specialists
 - Quantitative
 - Management solutions
- Holistic - interdependencies
 - Communities
 - also Qualitative
 - Adaptive environments

Calculated Risk vs. Perceived Risk





Communication: workshops, GIS maps, 3D animations



Contact: z.vojinovic@unesco-ihe.org

Publication:

Holistic approach to flood risk assessment in areas with cultural heritage: a practical application in Ayutthaya, Thailand, 2015, Vojinovic Z., Hammond M., Golub D., Hirunsalee S., Weesakul S., Meesuk V., Meedina N., Torres A., Kumara S., Abbott M., *Natural Hazards*, Accepted (In Press).

Further work: <http://www.pearl-fp7.eu/>