

Integrating Ecosystem-based Approaches into Flood Risk Management for Adaptive and Sustainable Urban Development in Central Vietnam





















































General Objective

The overall aim of FloodAdaptVN is to reduce current and future flood risks through the implementation of targeted ecosystem-based adaptation strategies into the flood risk management frameworks.

The project compares potentials of risk transfer, ecosystem-based and hybrid disaster risk reduction and adaptation options, as well as complementary solutions to conventional, mostly structural measures.



























FloodAdapt aims to ...

- reduce **current and future flood risks** through the implementation of targeted ecosystem-based adaptation strategies into the flood risk management frameworks.
- understand and assess the drivers, spatial patterns (incl. hotspots), and dynamics of present-day and future flood risks (2030, 2050, 2100)
- investigate **entry points** for and **barriers** towards the implementation of disaster risk reduction (DRR), risk transfer (i.e. insurance) and adaptation solutions (with a strong focus on **ecosystem-based** approaches)
- co-develop a decision support tool for risk-informed (spatial) planning and prioritizing among different DRR, risk transfer and adaptation measures



























Study Area















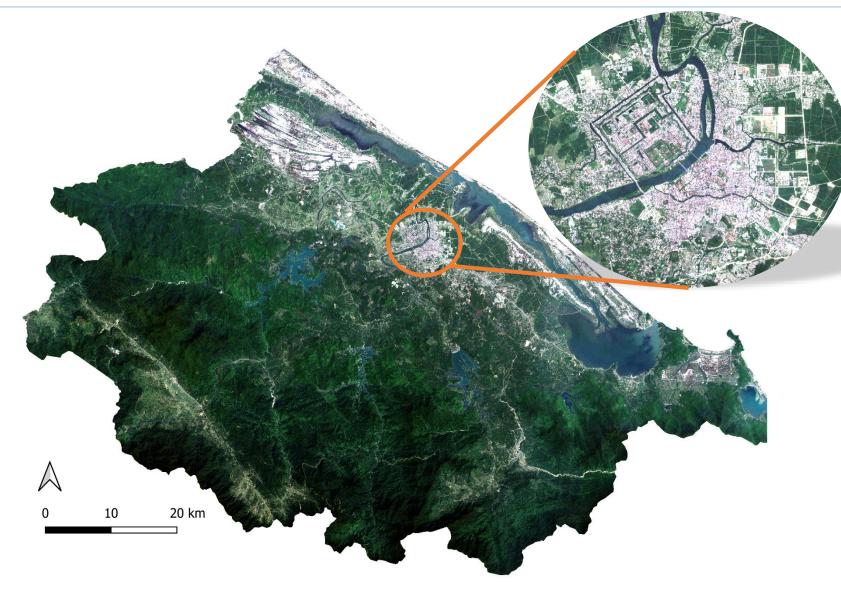


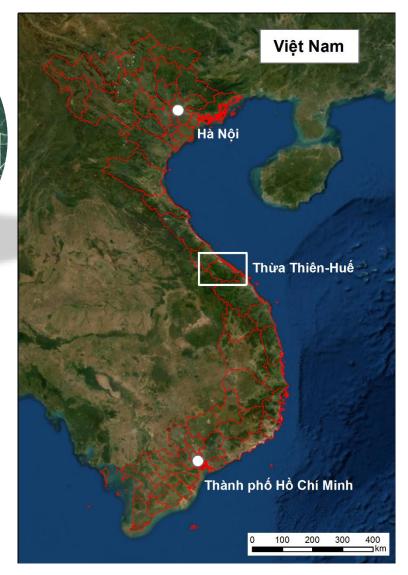






































Floods 2020

243

Dead or missing

7.7M

People living in the

affected areas

1.5M

People directly

affected

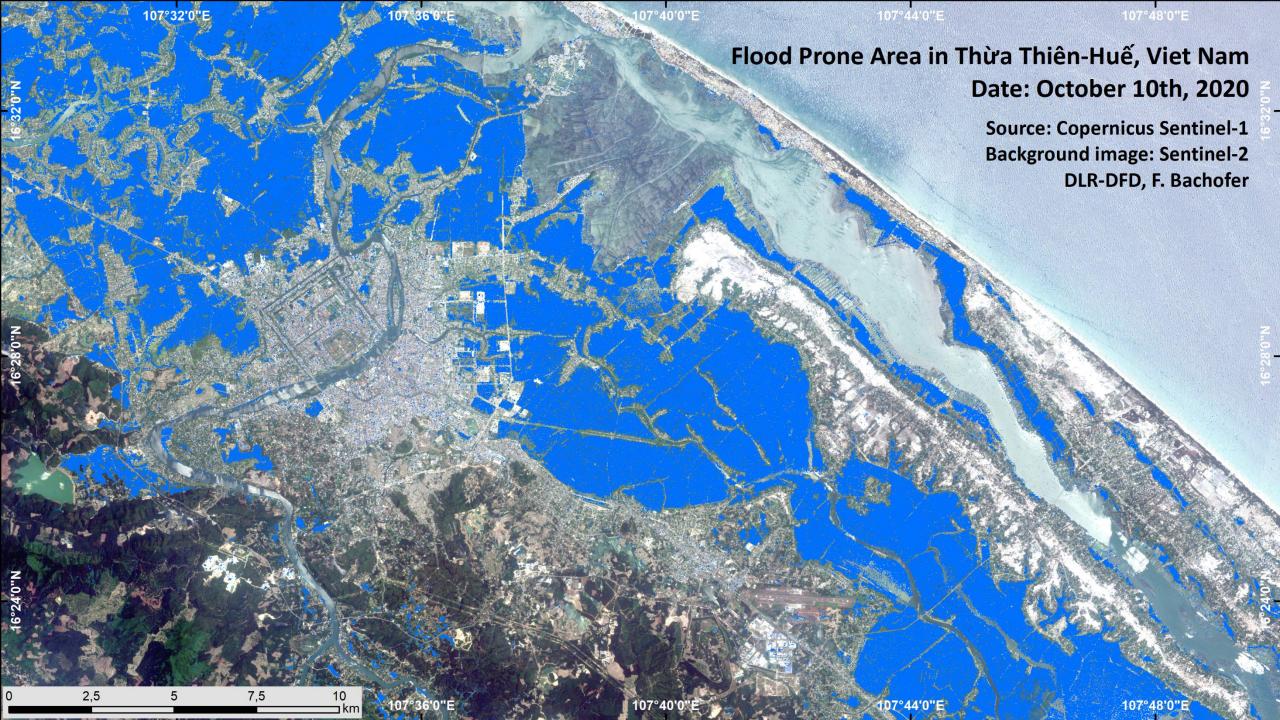
177K

People with pre-existing vulnerabilities Source: https://vietnam.un.org/;

26.11.2020































Approach

























9

Project Components



























World Bank (2021)

















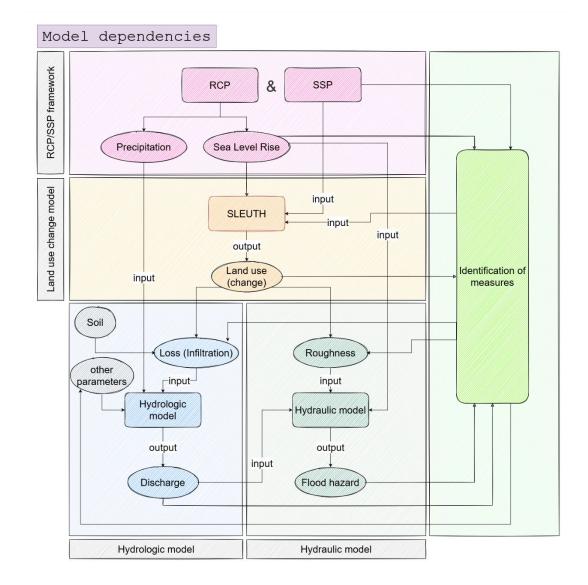






Current and Future Flood Risks and Impacts

Assessment of the drivers and spatial patterns of present-day and future flood risk in all dimensions of flood hazard, exposure and vulnerability, as well as (historical) damages and impacts















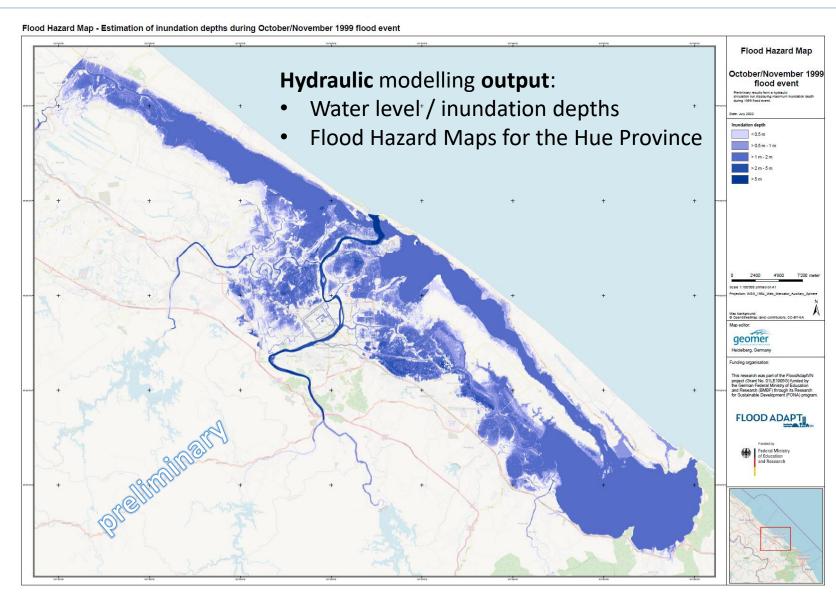






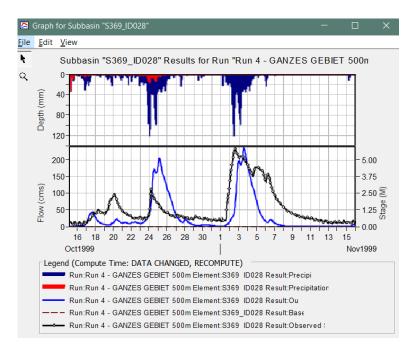






Hydrologic modelling **output**:

• Time series of discharge



























Cooperation and Implementation



















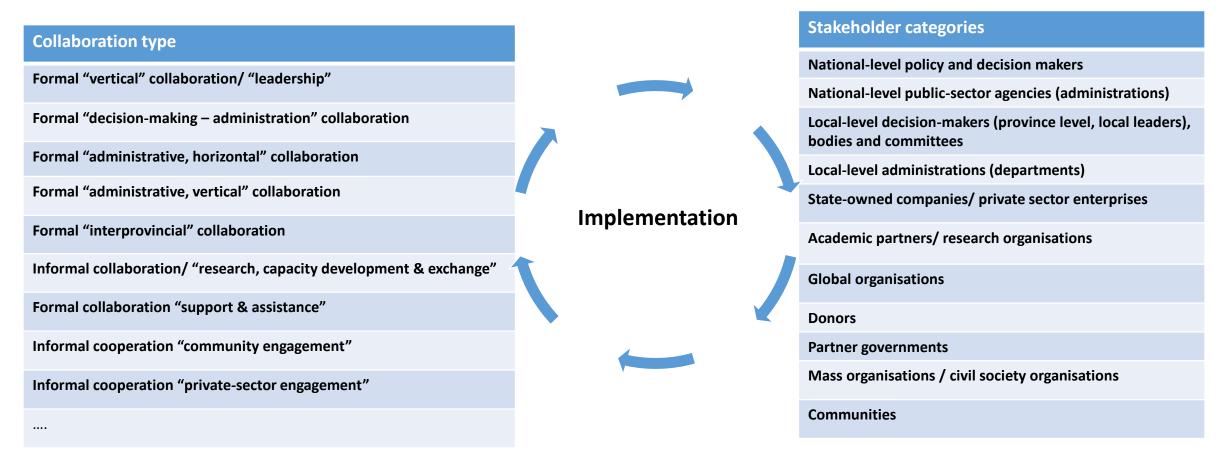






Stakeholder Integration

FloodAdaptVN – stakeholder collaboration / Stakeholder – Stakeholder collaboration



23.04.2023

























Protection targets in the policy framework

Ecology Môi trường

Economy Kinh tế Society Xã hội Process Quá trình



National level:

Resilience of the economy, of the society and of the environment to natural disasters

05/2016/TT-BKHĐT (06/06/2016) Circular guiding the integration of content on natural disaster prevention and control and sectoral, socio-economic development planning and plans/ Thông tư hướng dẫn lồng ghép nội dung phòng, chống thiên tai và quy hoạch, kế hoạch phát triển ngành

Thừa Thiên Huế Province:

By 2025, complete capacity building for offices of Commanding Committees for Natural Disaster Prevention and Control and Search and Rescue at all levels to proactively prevent and combat natural disasters (...), to reduce loss of life and property of the people and the state; to create conditions for sustainable development, (...), to build communities and a society safe from natural disasters.

204/KH-UBND (09/09/2020) Plan to improve disaster prevention and control capacity for localities in Thua Thien Hue province in 2020-2025/ Kế hoạch nâng cao năng lực phòng, chống thiên tai cho các địa phương tỉnh Thừa Thiên Huế năm 2020-2025























	Ecology Môi trường	Economy Kinh tế	Society Xã hội	Process Quá trình
Environment & natural resources				
Agri-/ aquaculture, forestry & fishery				
Structural adaptation/ FRR/ DRR				
Technical infrastructure				
Built environment				
Traffic & mobility				
Socio-economy				
Social infrastructure & quality of life				
Human health & safety				
Security & public order				
Planning & strategy development				























Stakeholder categories

National-level policy and decision makers

National-level public-sector agencies (administrations)

Local-level decision-makers (province level, local leaders), bodies and committees

Local-level administrations (departments)

State-owned companies/ private sector enterprises

Academic partners/ research organisations

Global organisations

Donors

Partner governments

Mass organisations / civil society organisations

Communities























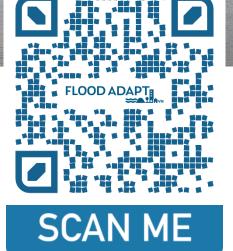


Thank you.

Cảm ơn.

German Aerospace Center (DLR) Dr. Felix Bachofer

Tel.: +49 8153 28 - 3183 Felix.Bachofer@dlr.de Münchener Str. 20 82234 Weßling, Germany



Visit our Project-Homepage www.floodadapt.eoc.dlr.de



SPONSORED BY THE

