

RiskScape Programme Activities

PROGRAMME ACTIVITIES



RiskScape

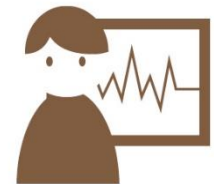
Tools & Services



Data & Models



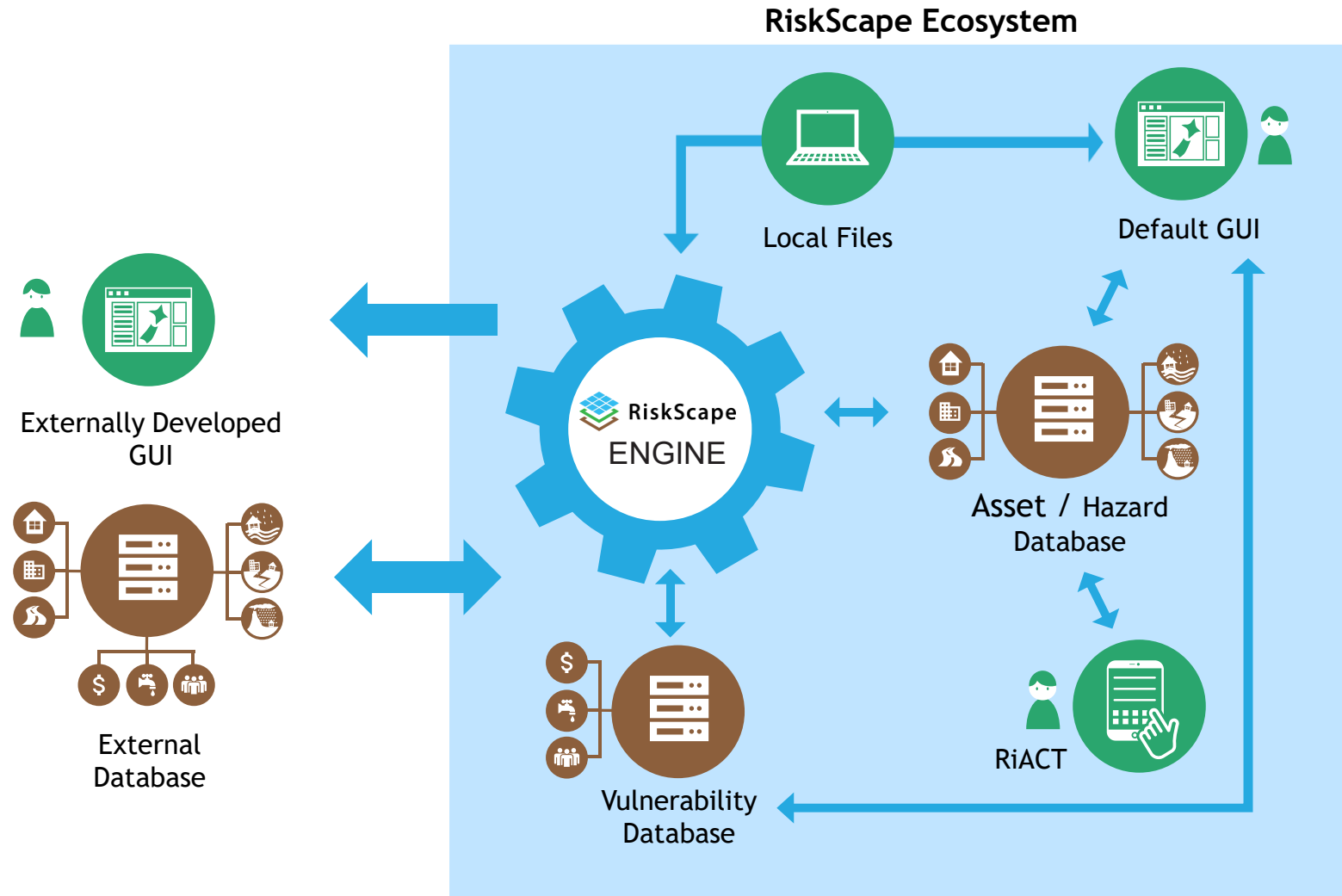
Engagement &
Training



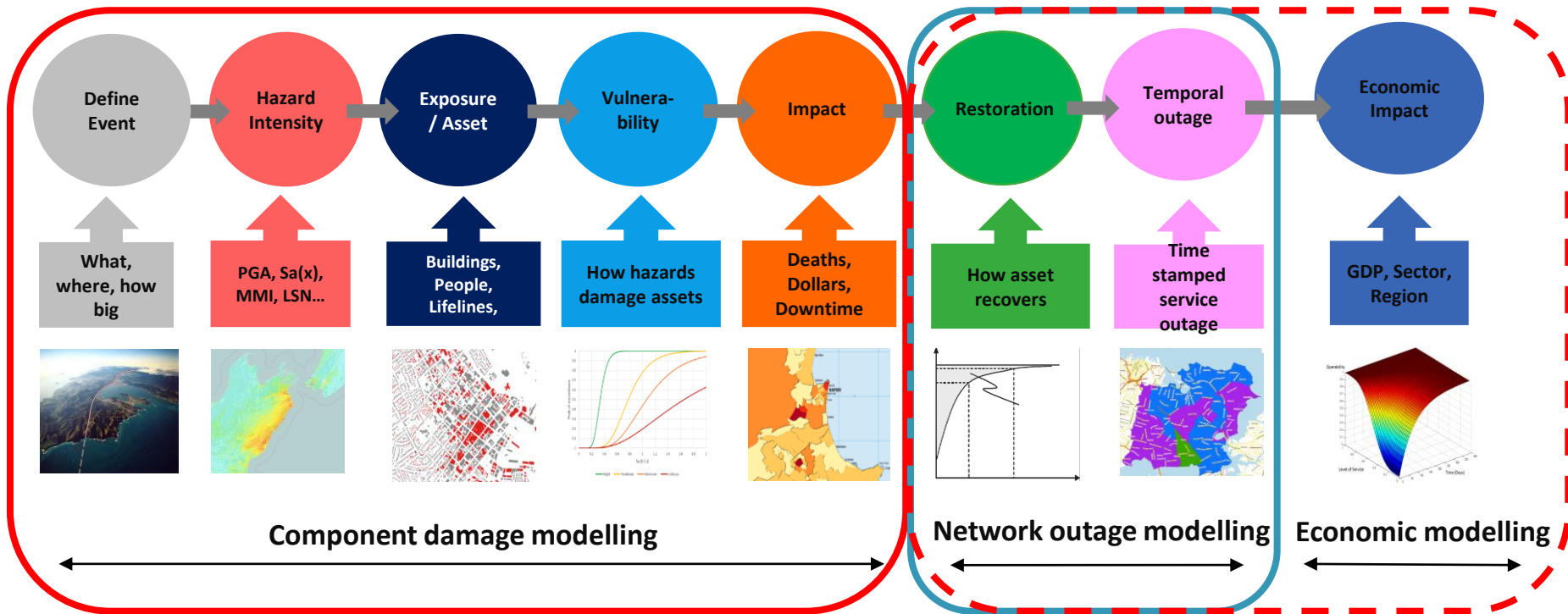
Applied research



RiskScape Version 2.0



RiskScape with Other Models



Wellington Resilience Project Example



RiskScape Version 2.0

RiskScape software is being redeveloped to:

- Provide an impact model engine operable via a command line interface or web application
- Improve GIS functionality
- Support vulnerability functions in common coding languages (e.g. python)
- Provide development APIs

RiskScape 2.0 development timeline (short-term):

July 2018 – December 2018

- Impact model prototype development (with CLI)
- Feature testing and refinement
- User testing and feedback

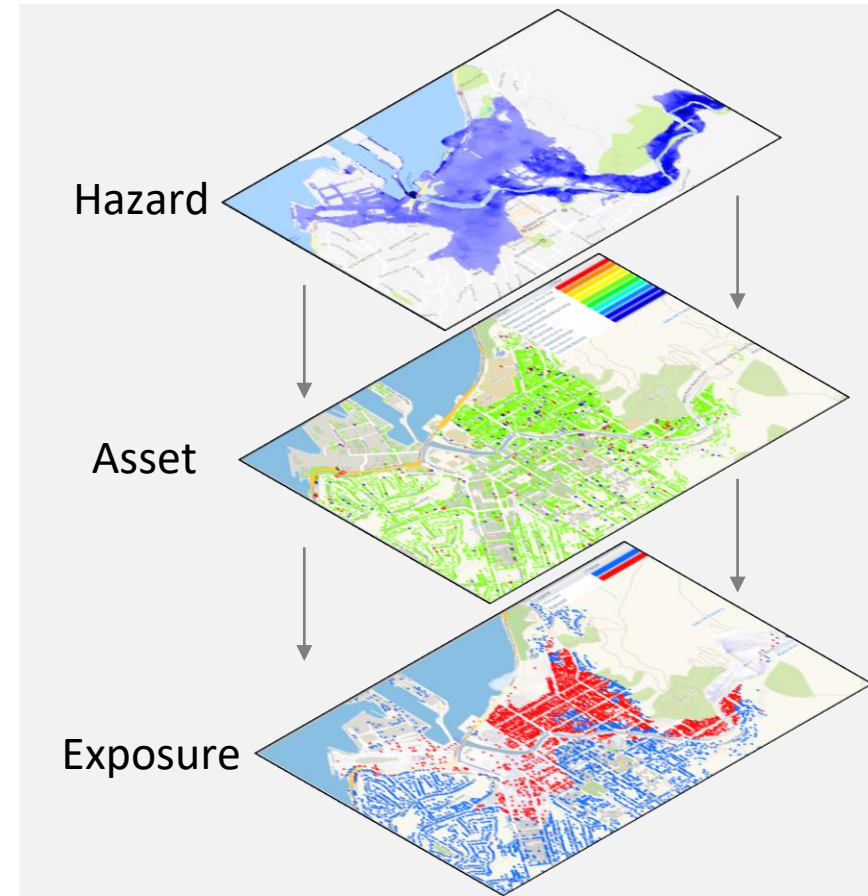
2019-

- Develop the rest of the system.....

National Flood Hazard Exposure

Emergent exposure of flood inundation hazards under future climate change in New Zealand (Deep South Challenge)

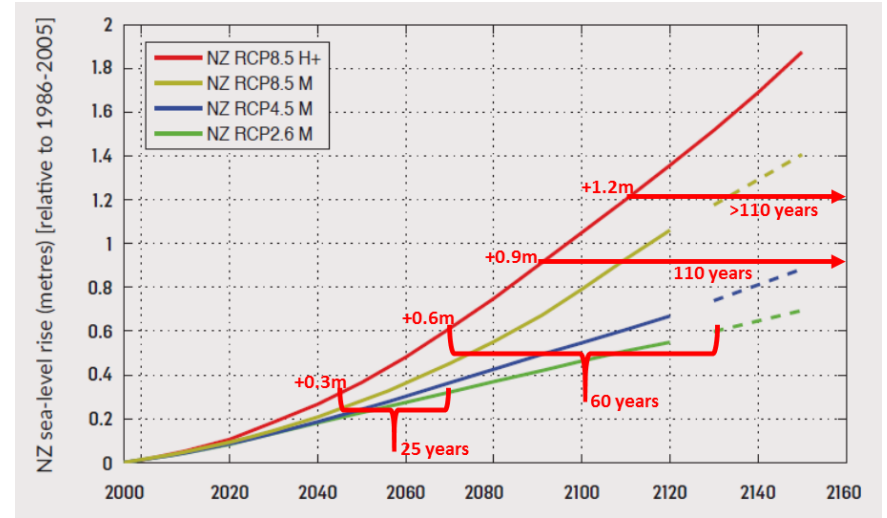
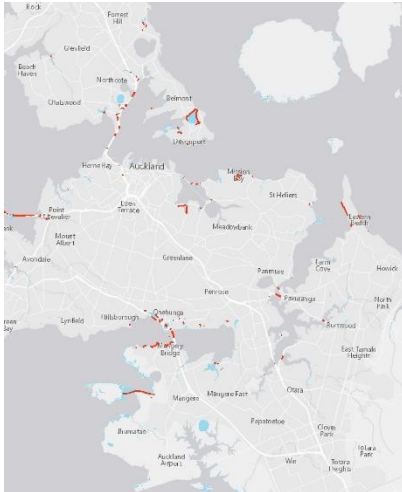
- 1% AEP storm-tide inundation hazard model development and exposure mapping (Year 1 – 2).
- River/pluvial flood hazard area map collation and climate change sensitivity mapping (Year 1 – 2).
- National asset dataset collation (Year 1).
- National flood inundation hazard exposure mapping (Year 2).



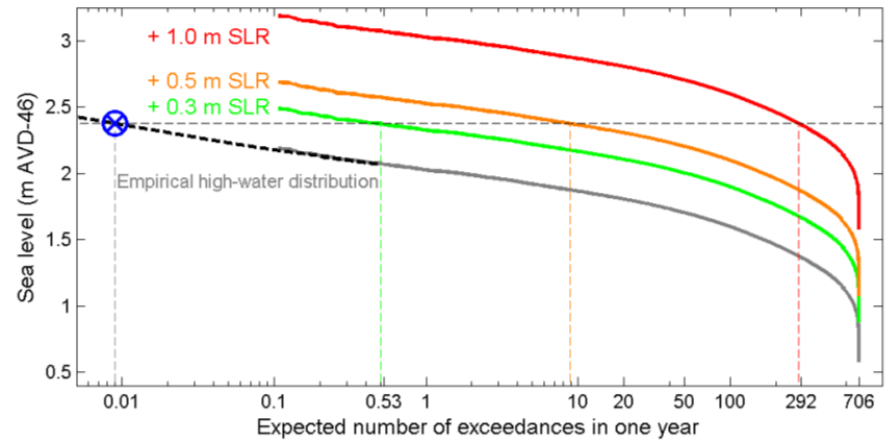
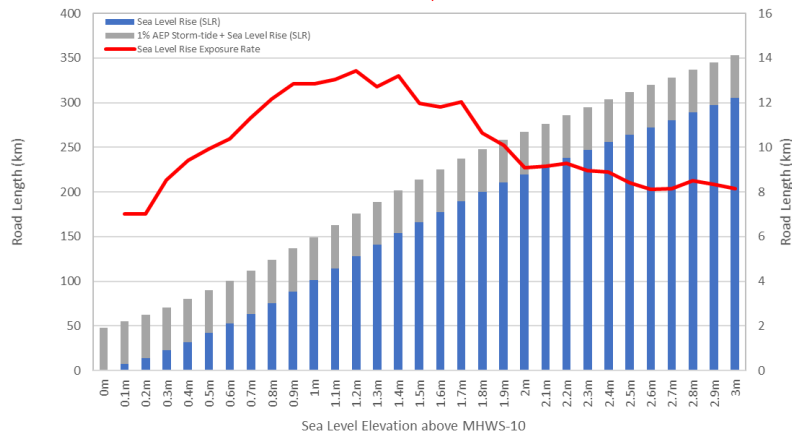
National Flood Hazard Exposure

**Auckland
Road
Network:**

**Storm-tide
Exposure**



Adapted from MfE 2017



Stephens et al. 2014