

PARTneR

Pacific Risk Tool for Resilience



















Framework for Resilient Development in the Pacific

Example Strategic Actions on Risk Assessment

- "Strengthen knowledge on the causes, local impacts and response to climate change, hazards and disasters, and build capacity for local adaptation and other risk management measures, through formal and non-formal education systems, including for loss and damage."
- "Collect post-disaster time series information that separates elements of the cause (hazard, vulnerability and exposure) and the effect (impact or consequence) to inform estimates of future impacts (risk assessments) and to monitor progress toward risk reduction targets."

What do we mean by risk tools?

 Risk modelling software helps people understand the impact from hazard events.

• The software is designed to perform a complex calculation simply and quickly without needing specialist modelling knowledge.



Why use a risk tool?

Understanding risk Risk Reduction underpins Sustainable Development Risk Assessment underpins Risk Reduction Understanding the impacts of disaster is vital Risk tools can estimate disaster impacts



Five partner organisations



2 Pacific Island Countries



NZ Aid funding



3 year pilot project



Pacific risk mapping and decision support tool developed



Data collation and management system developed



Risk tool training developed and applied

Sustainable partnership model developed and rolled-out

The Importance of Data

Risk Tools such as RiskScape can estimate impacts:

- damage state,
 - human loss,
- replacement costs,
 - displacement....

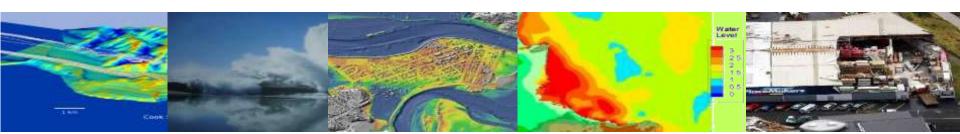
But like any risk assessment framework it requires data.





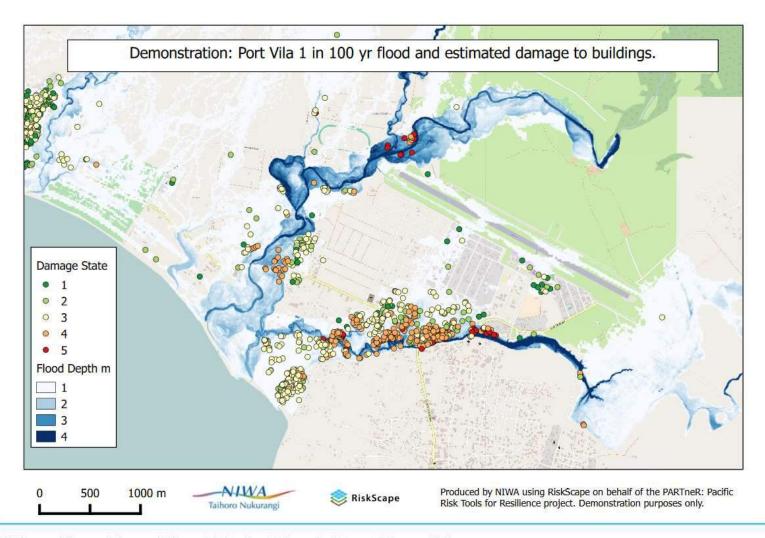
What is RiskScape?

- A <u>research programme to study the impacts of natural hazards</u> on communities and to develop models to forecast future impacts;
- RiskScape impact and loss modelling software that is freely available and provides information about what could happen in a natural hazard event.

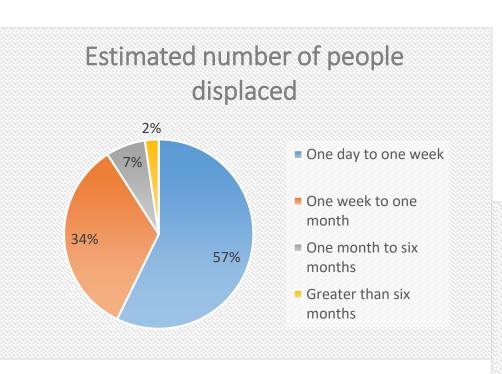


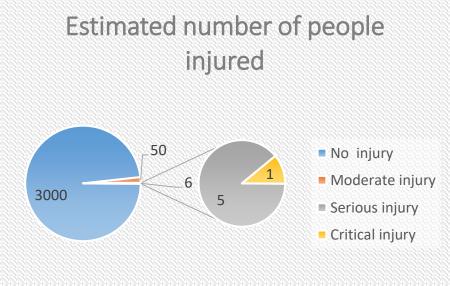
RiskScape video

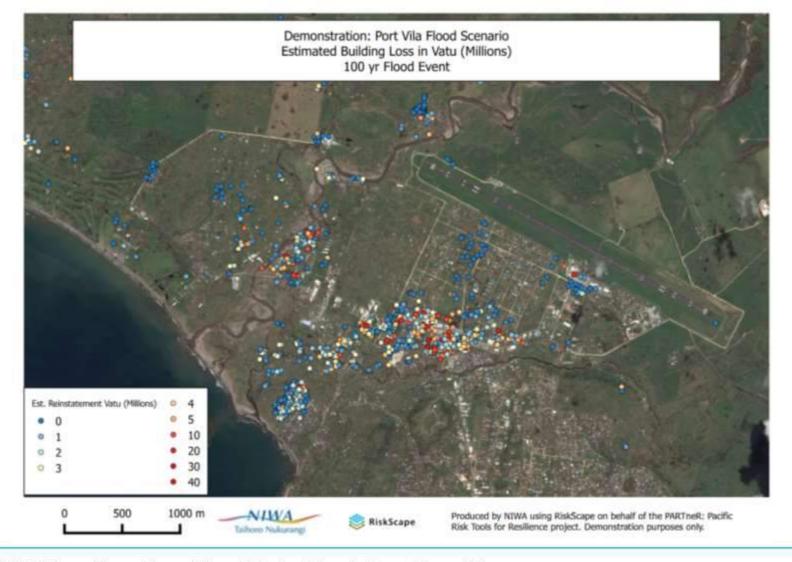




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Introducing PARTneR



PARTneR

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intips.// www.nshscape.org.nz/international-projects

Case studies for Vanuatu and Samoa

Vanuatu

- Ashfall impacts on Tanna Island
- Tropical cyclone impact for urban planning in Lenakel, Tanna
- 3. Connecting drought and extreme rainfall to agricultural production

Samoa

- Tsunami risk and loss modeling
- 2. Near real-time tropical cyclone impact
- Landside risk for Mt Vaea, Apia

Looking forwards...



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https://www.riskscape.org.nz/international-projects

Lessons learnt

Need for improved...

- Data availability
- Data collection standards
- Regular collection after disaster events
- Coordination between stakeholders
- Data sharing agreements
- A central data repository
- Technical training in risk assessment and risk tools



Key opportunities and challenges

Sustainability

- Partnership- Pacific organization
- Technical backstopping country level
- Multi-level trainings
- Participatory
- Data collection tools and systems
- Suite of products for the Pacific

Challenges

- Hazard models
- Centralized database with data sets
- Data sharing agreements

Get more information....

- RiskScape and PARTneR website:
- www.riskscape.org.nz/international-projects
- To download RiskScape NZ:
- https://www.riskscape.org.nz/get-riskscape
- For news on RiskScape:
- www.riskscape.org.nz/news

Support using RiskScape

Manuals and support via the RiskScape wiki

https://wiki.riskscape.org.nz/index.php/Overview

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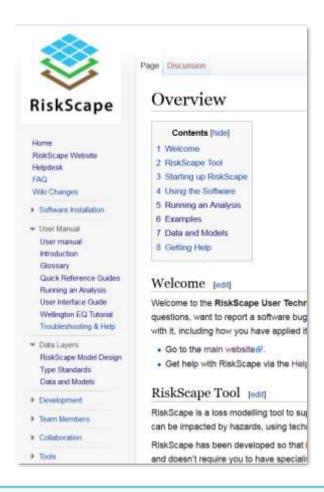
Vanuatu:

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Final Thoughts...

PARTneR provides an opportunity for:

- Data collection and management
- Data transformation into information and knowledge
- Science uptake and integration
- Coordination within and across government and other stakeholders
- Sharing data and information on impacts



We want a shift towards cross government engagement and good data management and use for DRR, DRM and CCA.

Summary

- RiskScape is a technical risk assessment software platform that is being tailored for use in the Pacific
- Currently have ongoing case studies and trained coordinators in Samoa and Vanuatu
 - RiskScape is expected to be expanded to other Pacific countries
- Though a technical tool, the exposure and impact results can be exported as maps and tables for various scenarios
 - Can contribute to national and regional planning and response mechanisms