

Distributed Infrastructure RNC/QuakeCoRE

Monthly Meeting
12/2/2018

Summary

- Introductions
- Infrastructure program update and new project summaries.
- Presentation: " Infrastructure Failure and Recovery Strategies from an Alpine Fault Scenario." Conrad Zorn and Ali Davies
- Presentation: "Ground motion simulation and geospatial co-seismic hazard modelling – QuakeCoRE updates." Liam Wotherspoon
- Resilience to Nature's Challenges – Natural Hazards Research Platform Merger
- Advisory Group Updates
- Other updates
- Discussion

Infrastructure Program Updates

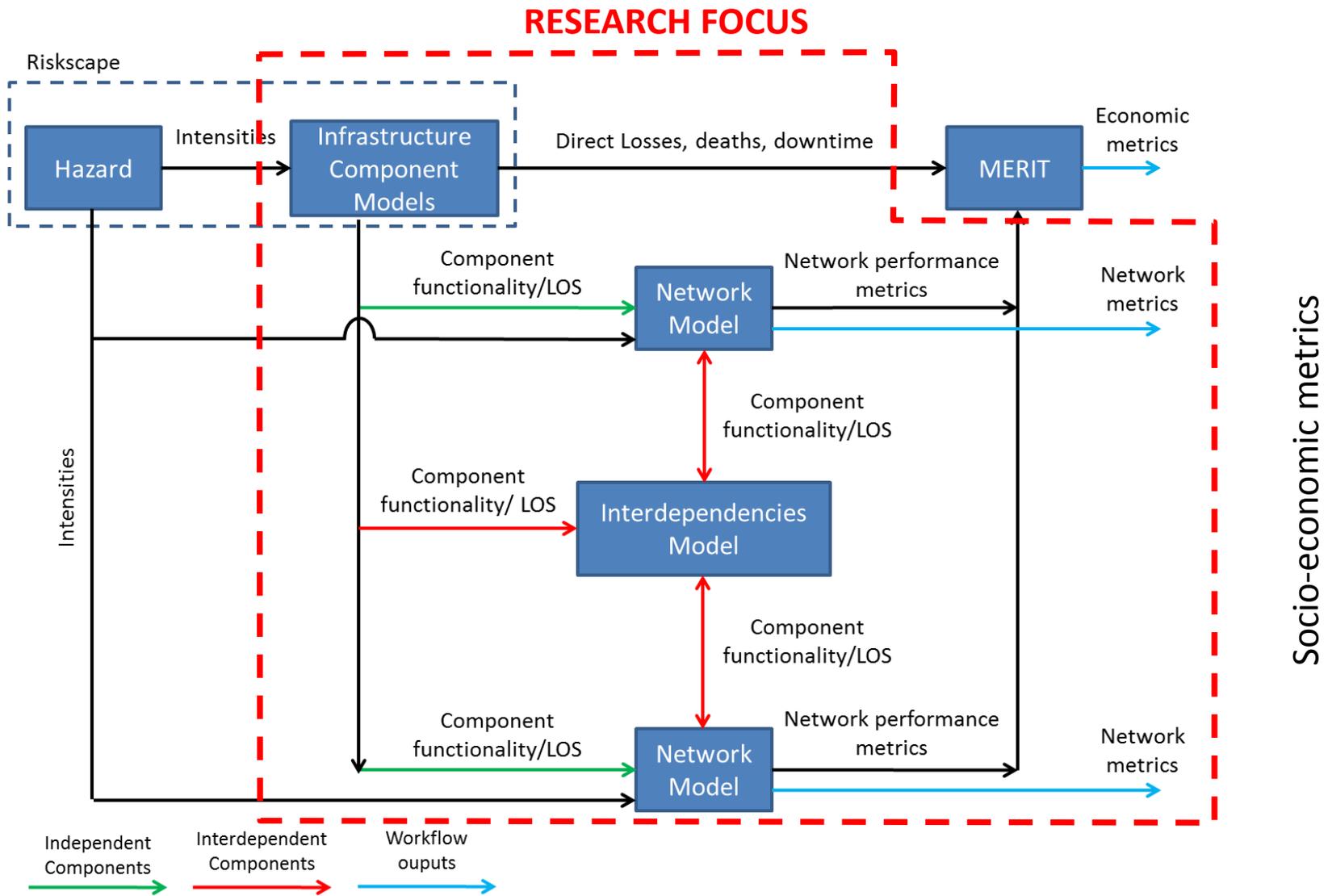
- 2018 Projects

- Assessing the impact of undocumented stopbanks on flood routing and catchment performance
- Understanding evacuation and travel behaviour under emergency situations in Auckland, New Zealand
- Seismic resilience for fast-changing telecommunication networks
- Tsunami vulnerability of key infrastructural assets
- Critical infrastructure impacts & adaptations in small towns following earthquakes
- Dynamic reconfiguration of communication networks following natural hazard events
- Development of criticality frameworks for infrastructure networks
- Infrastructure flood vulnerability models
- Geospatial hazard characterisation

Presentations

- " Infrastructure Failure and Recovery Strategies from an Alpine Fault Scenario." Conrad Zorn and Ali Davies
- Presentation: "Ground motion simulation and geospatial co-seismic hazard modelling – QuakeCoRE updates." Liam Wotherspoon

RNC-NHRP Merger



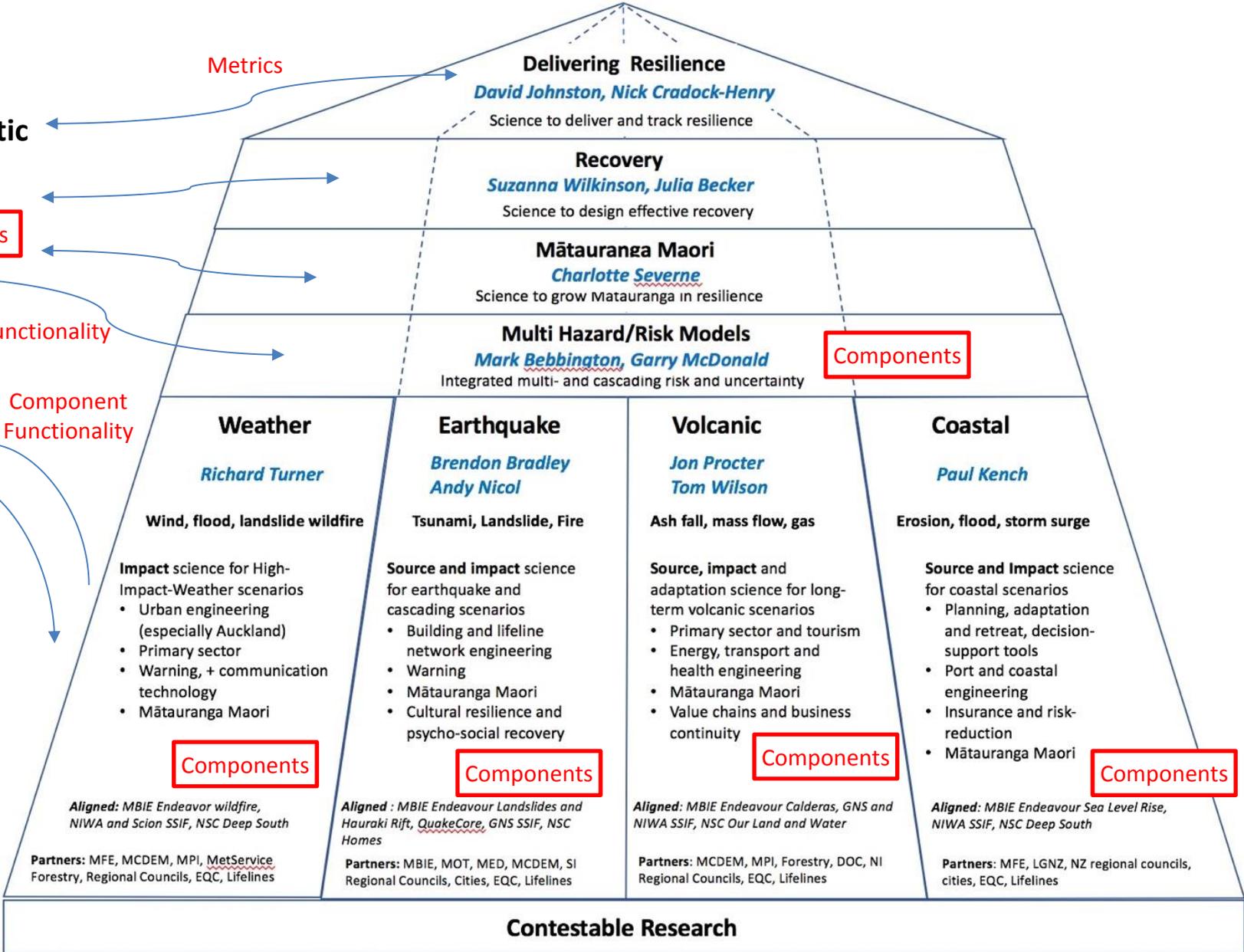
Hazard agnostic

- Networks
- Interdependencies

Functionality
Component Functionality

Feed back into scenarios and metrics

Metrics



QuakeCoRE
NZ Centre for Earthquake Resilience



National **SCIENCE** Challenges

RESILIENCE TO NATURE'S CHALLENGES

Kia manawarao – Ngā Ākina o Te Ao Tūroa

RNC-NHRP Merger

- 16th Feb – Planning Workshop
 - Discuss 1st Draft work packages
 - Researcher and stakeholder feedback
 - Further plan development

Infrastructure Advisory

- Meeting 22nd February
- Project updates
- Discuss RNC-NHRP Merger

Other Items?

- Wiki:

<https://wiki.canterbury.ac.nz/display/QuakeCore/Special+Project+1%3A+Spatially-distributed+Infrastructure>