



# Resilience Measurement in Policy and Action

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# Overview

- Measuring resilience
- The New Zealand Resilience Index
- The data woes of indices
- Baking it in: aligning resilience with local priorities
- Future work: Where to from here?
- Concluding thoughts





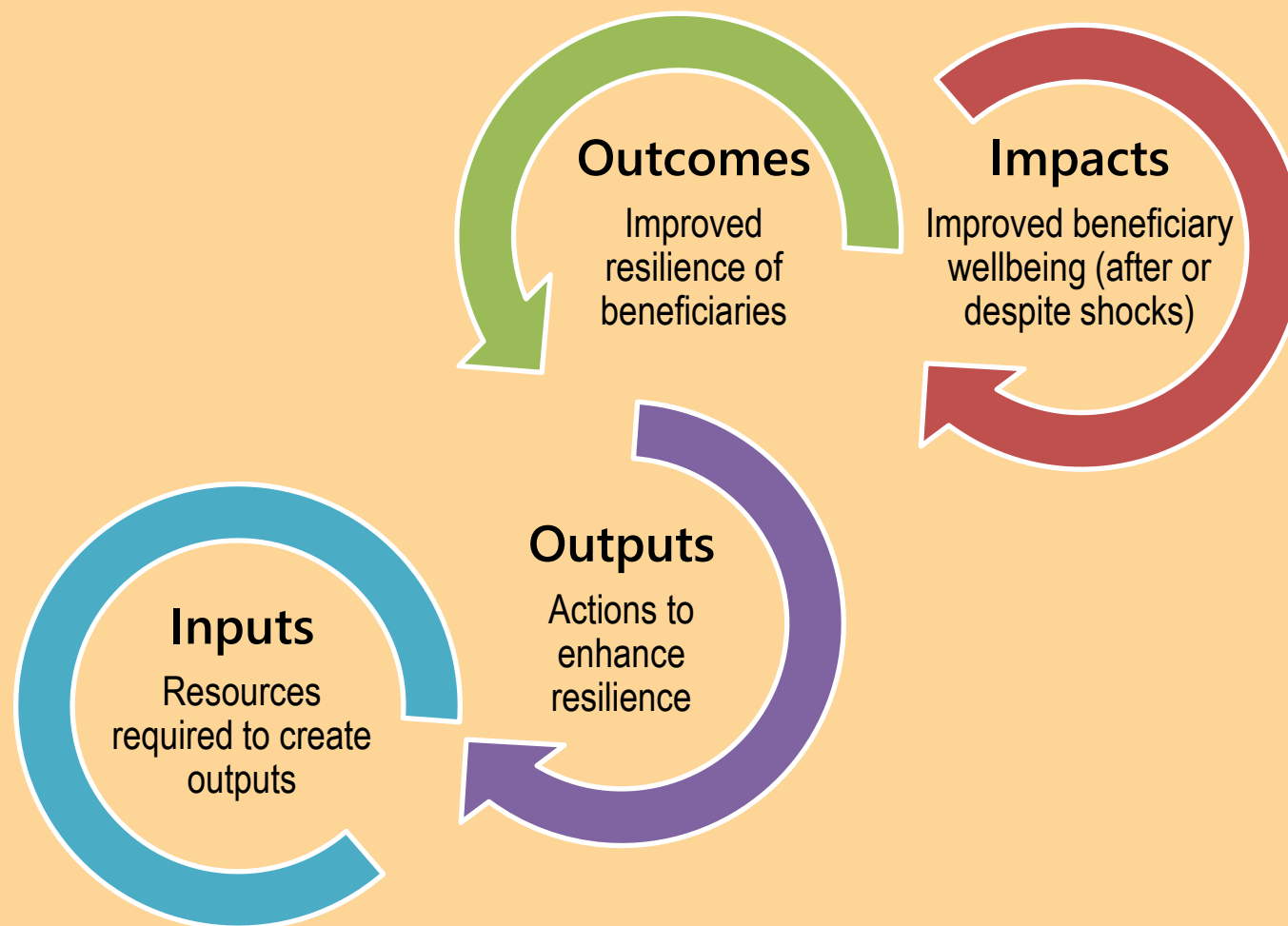
# Resilience measurement is empowering

Measuring resilience helps  
make an abstract concept  
visible. Once resilience is  
visible, we can do  
something about it.





# Resilience theory of change



Source: NZ Ministry of Civil Defence and Emergency Management, 2018



# The New Zealand Resilience Index



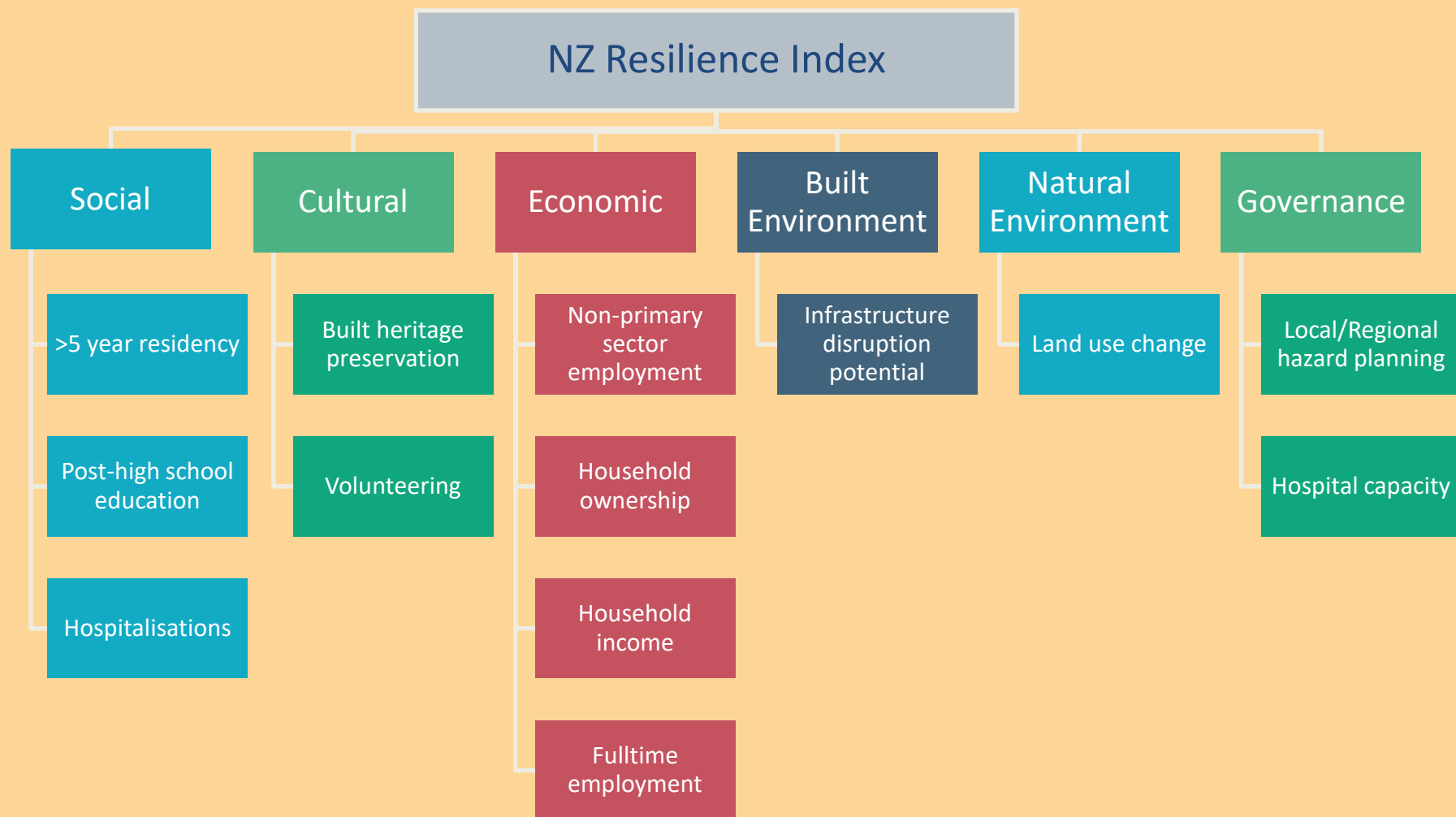


# New Zealand Resilience Index





# New Zealand Resilience Index

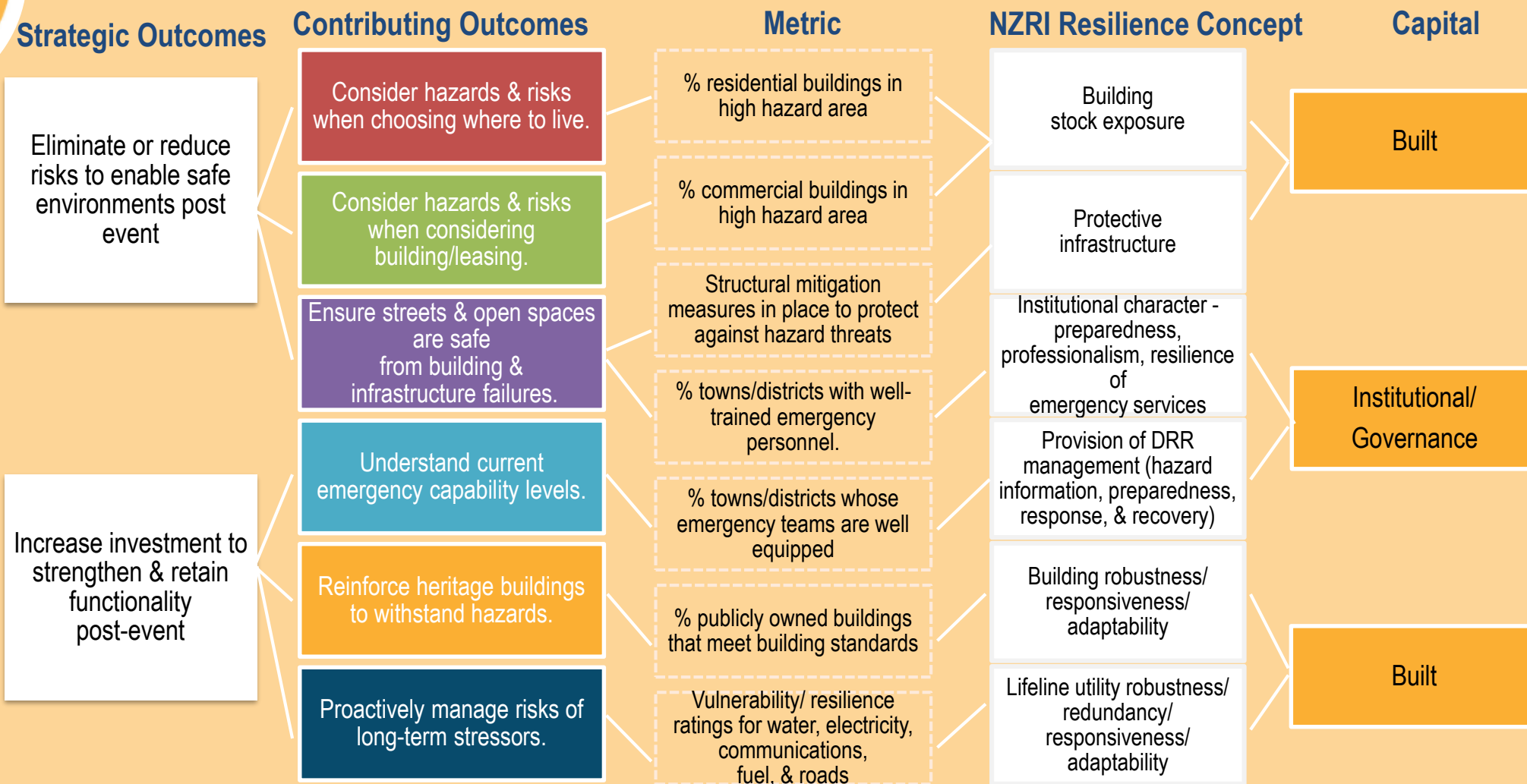




## The data woes of resilience indices

- “Want to have” indicators
  - Not collected; or
  - Difficult to align with NZRI
- Emergency response skills
- Not uncommon in nation-wide resilience indices







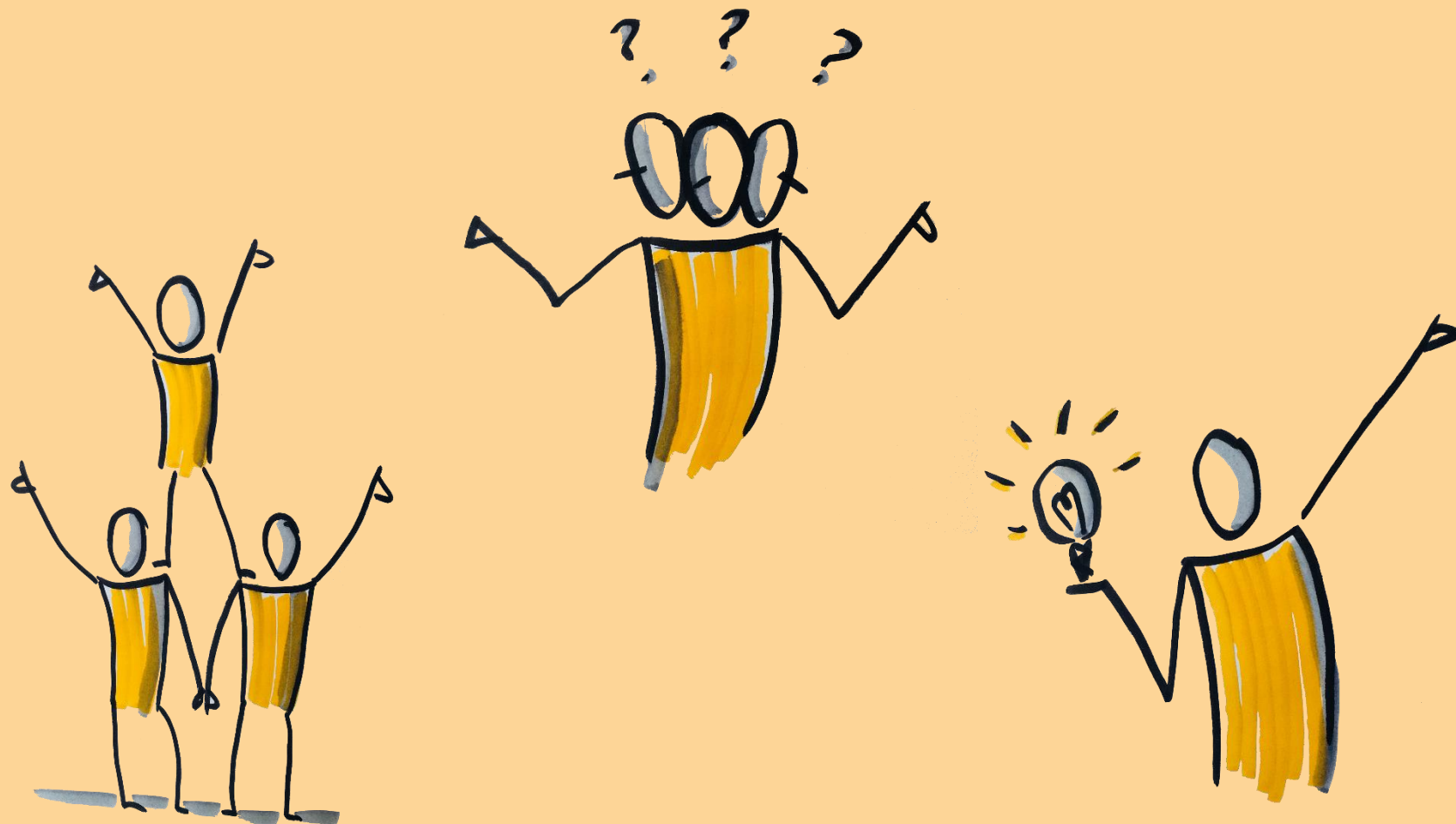
## Future work: Where to from here?

- Further development of the NZRI
- Support further regional development
- Integration into decision making
- Agile data collection allowing for real time reporting and subset retesting





# Concluding thoughts





# Acknowledgements

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- Many thanks to Wellington Regional Emergency Management being partnering with us on this project!
- For further reading, see:
  - Stevenson, J. R., Kay, E., Bowie, C., Ivory, V., & Vargo, J. (2018). The Data Challenges of Monitoring Resilience. In K. Stock & D. Bunker (Eds.), Proceedings of the Information Systems for Crisis Response and Management Asia Pacific 2018 Conference Innovating for Resilience 5 – 7 November, Wellington, New Zealand (pp. 153–165).
  - Kay, E., Stevenson, J. R., & Bowie, C. (2018). Weighting indicators of resilience: Expert opinions on the New Zealand Resilience Index. Results Bulletin 2018-12. Resilient Organisations. Available: <https://www.resorgs.org.nz/expert-opinions-on-new-zealand-resilience-index/>.



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