

# *Infrastructure and disaster resilience*

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- 2015 was an important year for the United Nations
  - Sendai Framework for Disaster Risk Reduction
  - 2030 Agenda for Sustainable Development
  - Paris Agreement on Climate Change



# *Sendai Framework for Disaster Risk Reduction*

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Understand risk

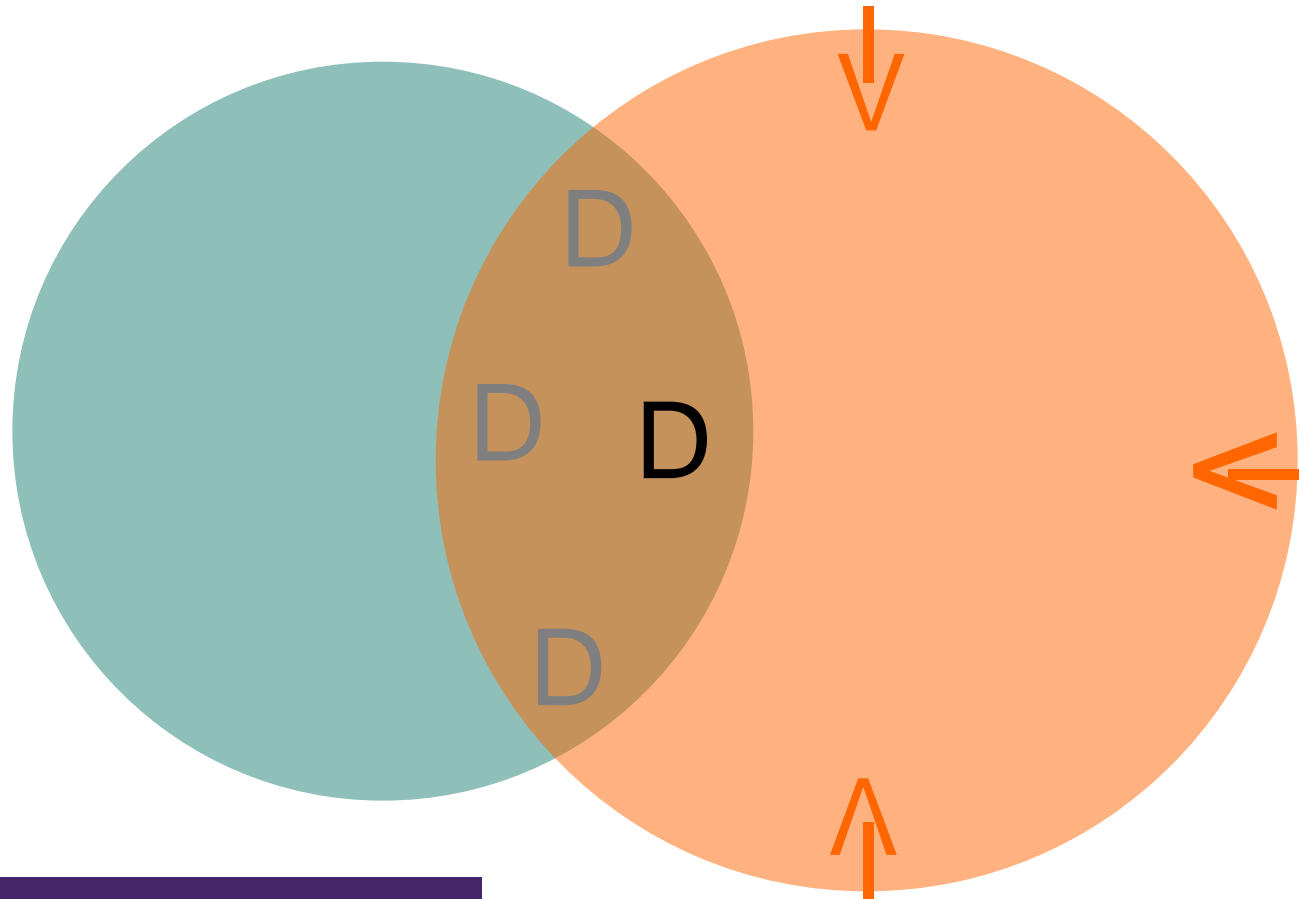
Strengthen governance

Invest in risk reduction

Build back better

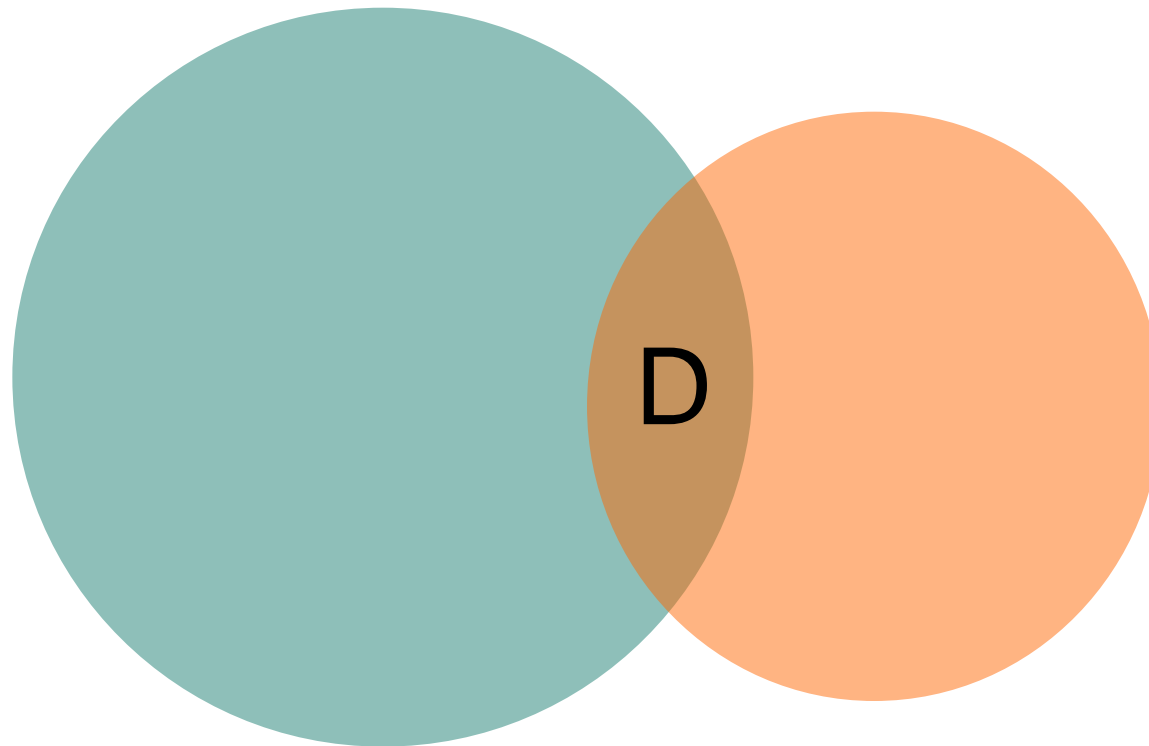
**NATURAL HAZARDS**

**VULNERABILITY**



**NATURAL HAZARDS**

**VULNERABILITY**





- National assessment / IPCC-like state of play?
- Integrate disaster risk management and climate change
- Focus on reducing vulnerability to all hazards



## 2. Strengthen governance

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- National/regional disaster risk reduction strategy
- Strengthen public / private partnership
- Focus on risk reduction
- All hazards





- View risk reduction as an investment not a cost
- Four clusters of tool
  - Zoning / local by-laws
  - Building codes
  - Empowered public
  - Public infrastructure





- Large improvement in resilience for little cost
- Focus on rebuilding and reconstruction
- Federal funds up to 15 percent to build back better
- Includes provincial, state, and municipal infrastructure



# *Conclusion*

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Disaster damage to infrastructure is rising

We can break this alarming trend

We should invest in resilient infrastructure

Greatest opportunity is new construction and rebuild