

Disaster Proofing Canada:Preparedness for Parliamentarians

February 2, 2017

















Disaster Proofing Canada - A Primer -

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World class research - ICLR

Oldest, largest, university-based disaster research institute in Canada

Established by the insurance industry 20 years ago, in 1997, at Western University

ICSU International Centre of Excellence for Integrated Research on Disaster Research

Mission - Reduce the risk of loss of life and property damage from floods, storms & earthquakes



Defining terms

Catastrophe – damage exceeds 2% of GDP (none yet)

Disaster – damage 0.2% - 2% of GDP (15 - 25 each year)

Hazard – damage less than 0.2% of GDP (1,000s each year)

Fort McMurray 2016

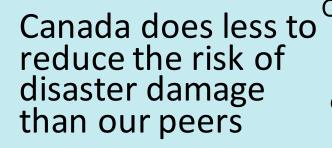




35

28

Disaster damage is rising



Source: United Nations Risk Index

Disaster risk reduction effort, 2015

Canada

Japan

Italy

Germany

US

UK

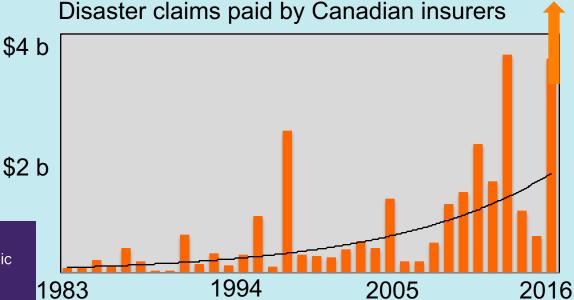
France

0 7 14 21



Source: Insurance Bureau of Canada





Understand the risk

Why were some homes in Fort McMurray destroyed and others not?

Source: ICLR

Why are most homes at risk of flood not near rivers?

Source: City of Edmonton





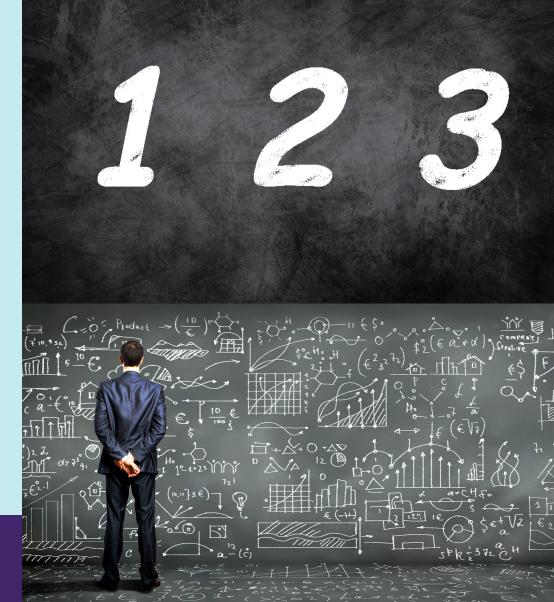
Improve risk governance

Disaster response - clear local, provincial, federal chain of action



Risk reduction ambiguous rules, little action, poor outcomes







Invest in risk reduction

The Red River floodway prevented \$ billions of damage

But there are too few other Canadian examples



Build back better

Public funds for infrastructure, uninsured homes

Since 2008, DFAA permits 15 percent funding

Insurers Rebuild Stronger Homes program

- ICLR science
- Water, wind, fire, hail
- 4 pilot studies, 20+ showcase homes



Five questions

How effective is disaster response in Canada?

Why are most federal funds for cyber threats spent on prevention, while most funds for flood and severe weather is spent on repairing damage, not prevention?

What can Canada learn from disaster management leaders like Japan and New Zealand?

Disasters are the new normal, are we prepared for the next one?

What should Canada do to prepare for the risk of a large disaster, a catastrophic earthquake in Vancouver or Montreal?





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