

# Is Your Community Resilience READI<sup>®</sup>?

**2020 Emergency Management Stakeholder Summit**  
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# Overview

- About Us
- Fort McMurray & Hawaii Recovery
- The Resilience READI<sup>©</sup> Framework
- Q & A



# About Us



# What Makes Something a Disaster?



Unforeseen/Unpredicted



Overwhelming Magnitude



Failure of Protection



Lack of Preparedness/Management Skill-Sets



Concentration of Exposed Valuables (People, Animals, Built, Environment, Culturally and/or Historically Significant)



# Fort McMurray & Kilauea Experiences



# Fort McMurray 2016



# Hawaii's Kilauea Volcano 2018

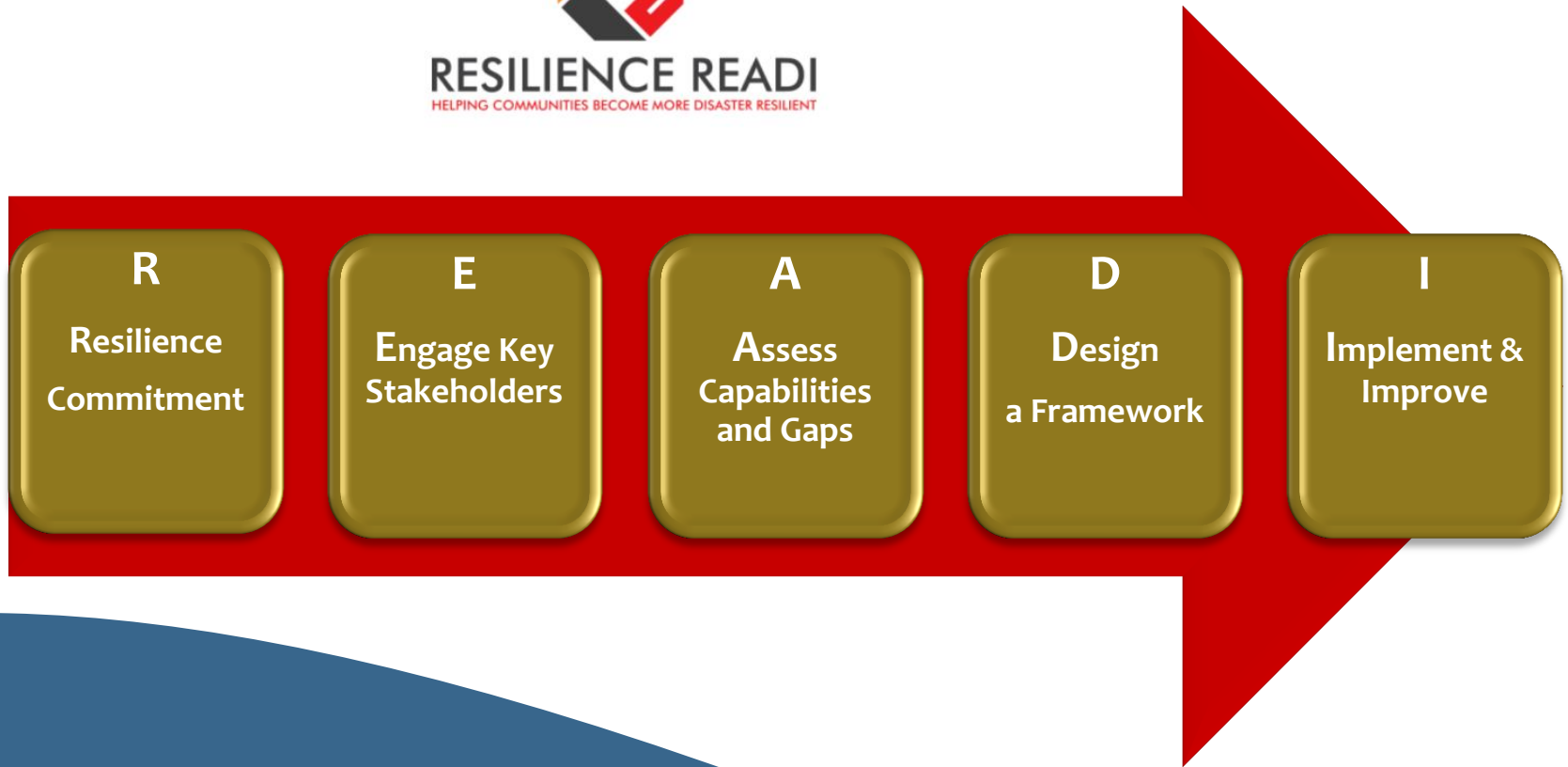




Is your community  
**Resilience READI<sup>©</sup>?**



# ISD's Resilience READI<sup>®</sup> Framework



# READI<sup>©</sup>: Step 1



**R**  
Resilience  
Commitment

# Resilience Commitment: Goals & Objectives

- Communities that commit to resilience are better able to:
  - ✓ Anticipate and avoid shocks entirely
  - ✓ Withstand unavoidable shocks
  - ✓ Recover quickly and return to normalcy



# Resilience Commitment: *Benefits*

✓ **Great ROI:**  
\$1 invested =  
\$4-10 saved

Location	Type	Date	Insurable Loss
Fort McMurray	Wildfires	May-2016	3,580,000,000
Southern Alberta	Floods	Jun-2013	1,720,000,000
Eastern Canada	Ice Storms	Jan-1998	1,490,000,000
Toronto	Floods	Jul-2013	943,000,000
Slave Lake	Fire	May-2011	700,000,000
Toronto	Flood	Aug-2005	590,000,000
Red Deer/Calgary	Hailstorm	Aug-2014	537,000,000
Calgary Region	Storm	Aug-2012	530,000,000
Calgary	Storm	Jul-2010	500,000,000
Calgary	Hailstorm	Sep-1991	343,000,000

Source: Insurance Bureau of Canada



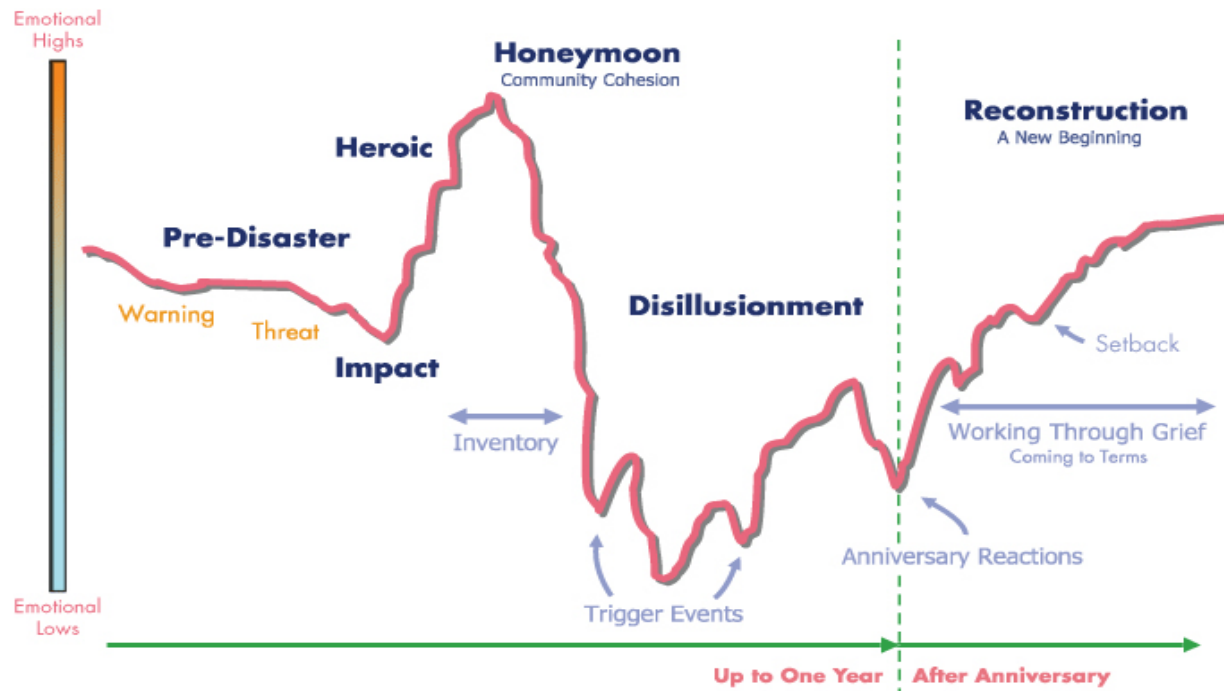
# Resilience Commitment: *Benefits*

✓ Business and economic resiliency



# Resilience Commitment: *Benefits*

✓ Psychosocial health of the community



Source: Adapted from Disaster Mental Health Services: a Primer for Practitioners

# READI<sup>©</sup>: Step 2

E

Engage Key Stakeholders

# Engage Stakeholders





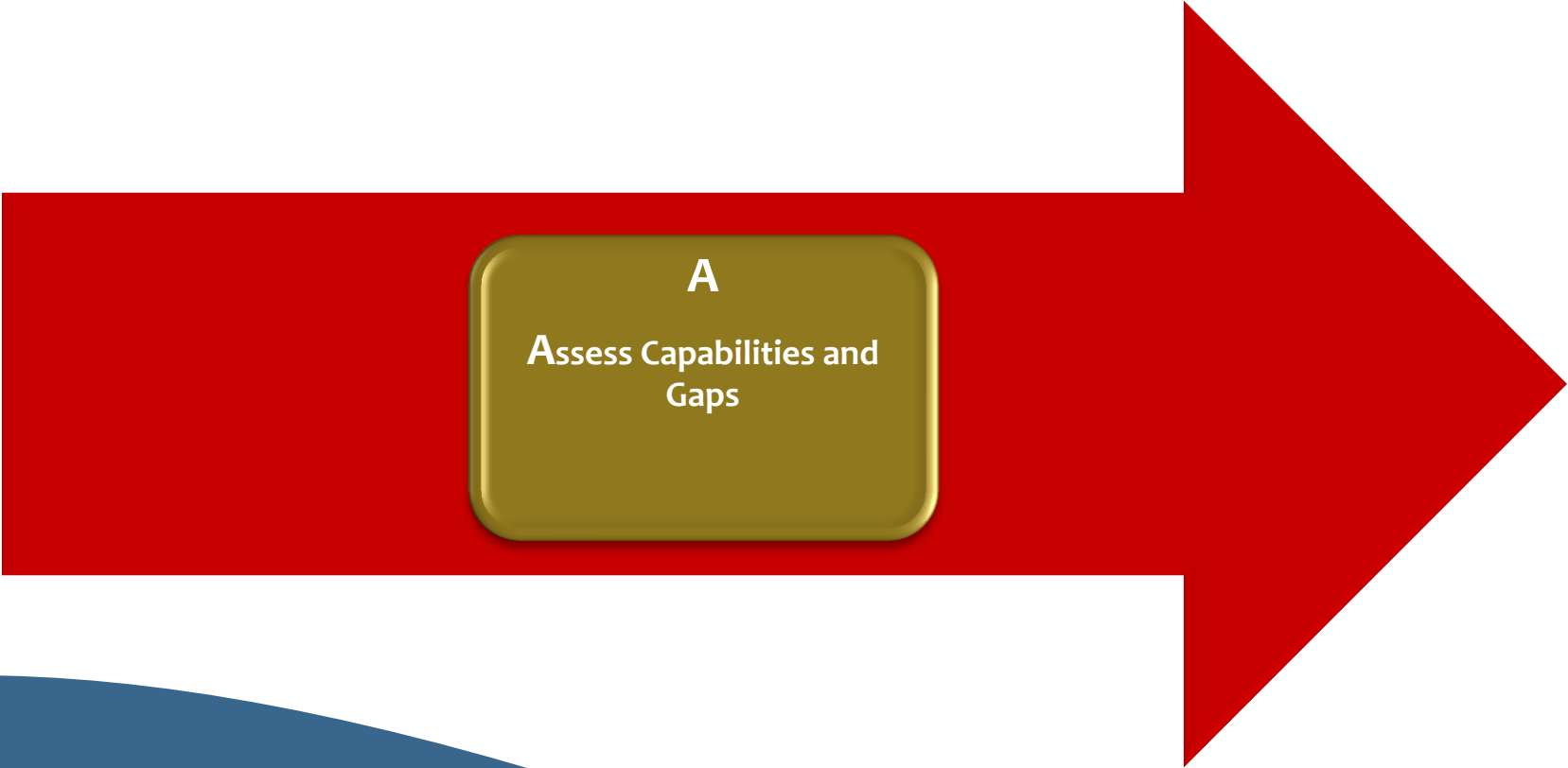
# Engage Stakeholders

✓ Communication  
is key

## 2019 *This Is What Happens In An Internet Minute*



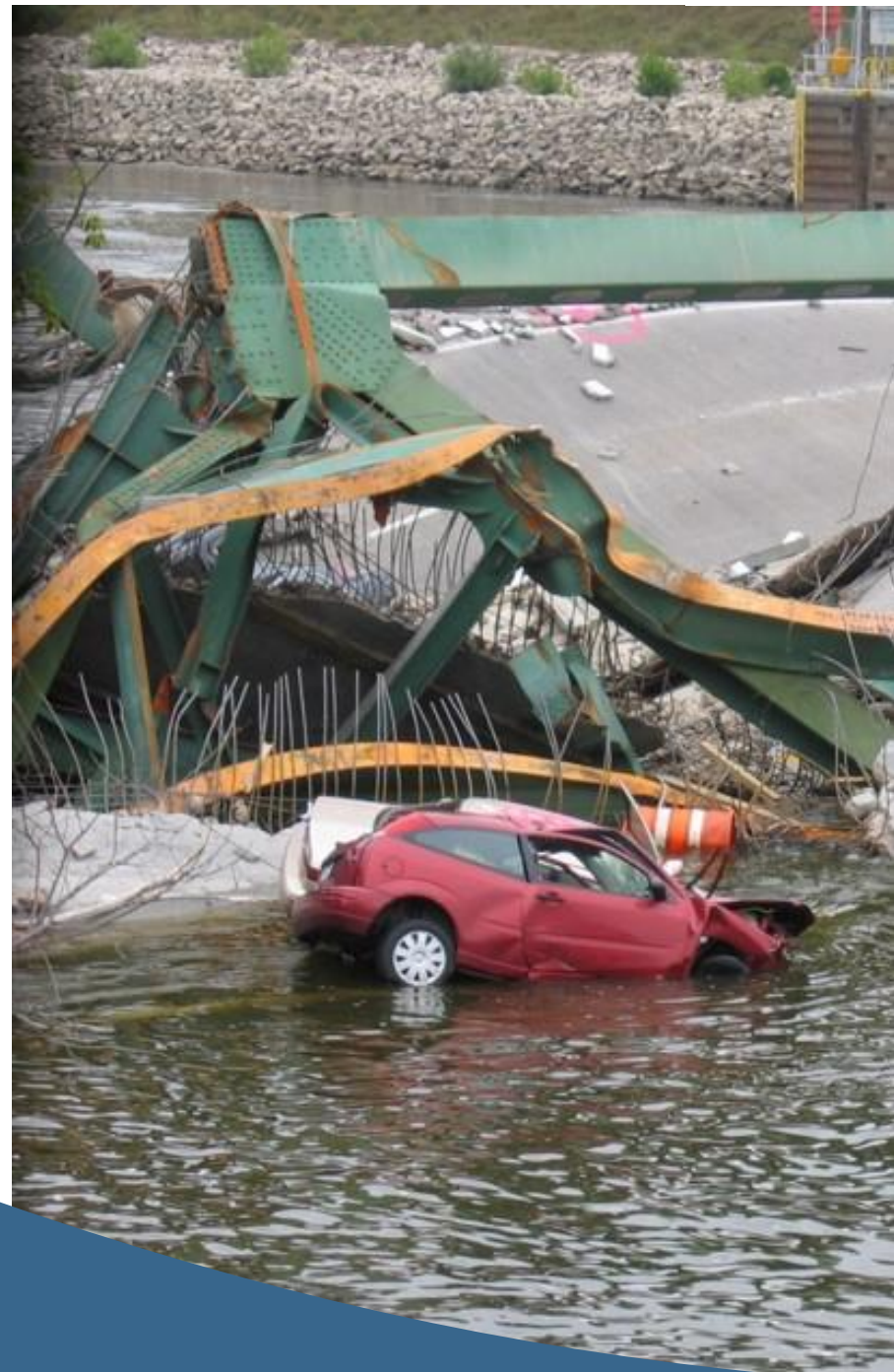
# READI<sup>©</sup>: Step 3



**A**  
**Assess Capabilities and  
Gaps**

# Assess

Threats  
Hazards  
Vulnerabilities  
Infrastructure  
Support Systems  
Capability Requirements



# Assess: Threats & Hazards



## Natural

Weather  
Climate  
Geological  
Asteroids



## Manmade

Terror  
Industrial Accidents  
Cyber Attacks  
Criminals and Gangs  
Gun Violence



## Economic, Health and Social

Plant Closings  
Homelessness  
Opioids  
Pandemics



# **Assess:** *Infrastructure & Support Systems*

Water and  
Sanitation

Energy

Transportation

Information and  
Communications  
Technology

Health

Food

Housing/Physical  
Asset Protection  
and Access

Public and Legal  
Order

Emergency  
Services

# Assess: Capability Requirements



Planning, Zoning



Analysis of Community Systems



Reduction of criticality (increased redundancy, so if something fails, there's a work around)



Technology and Data



Community Empowerment



Communication, coordination, and collaboration capabilities



Training



Rainy Day Funds

# READI<sup>©</sup>: Step 4

D

Designing  
a Framework

# Design a Framework



## Resilience and Preparedness

Envisioning and Reducing the Impact of Possible Extreme Events

Training for Post-Disaster Response and Recovery



## Emergency Response

Search and Rescue

Law & Order

Containment

Damage Assessment

Evacuation Management



## Relief and Stabilization

Mass Care

Restoration of Services

Work Arounds for Damaged and Destroyed Property

Debris Removal and Clean-Up



## Long-Term Recovery

Re-Zoning, Planning

Repair, Rebuild, New

Brand/Reputation

Finance, Housing, Technology, Energy, Water



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Sustainable Development



# Design a Framework: *Scenarios*

## Prioritization

- Probability x Immediacy x Potential Impact/(Local Capacity to Respond+ Likelihood of Outside Help)

### Chronic Stresses

*Low Immediacy, Cumulative  
High Impact*

- Drought, Economic Distress, Debt, Opioids

### Nature's Wrath

*Low Probability, Potential  
High Impact*

- Tornadoes, Floods, Fires, Blizzards, Ice Storms

### Unthinkable

- Terrorism, Pandemics, Mass Shootings

# Design a Framework: Considerations



Pre-planning/positioning of search & rescue equipment



Evacuation policy (both sending and receiving)



Livestock, animal, pet policy



Pre-set communications, branding, reputation



Relief and Recovery fundraising



Hazardous zones policy



Housing policy



Economic recovery support



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# READI<sup>©</sup>: Step 5



**I**  
**Implement & Improve**

# Implement and Improve



Practice/Exercises/Training



Develop Communications



Build up Response Networks, Systems and Procedures



Invest in Infrastructure Hardening and Upgrades



Embed Resilience in Future Community Plans

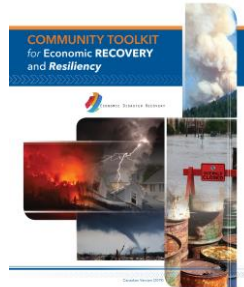


Connect with Peers/Benchmark/Keep Up with Innovations and Best Practices



Evaluate and Continue to Improve

# Potential Resources



[www.MasterYourDisaster.ca](http://www.MasterYourDisaster.ca)

[www.edaalberta.ca](http://www.edaalberta.ca)



Institute for  
Sustainable Development

[www.isdus.org](http://www.isdus.org)

[www.youtube.com/c/MYDGlobalDiscussingallthingsdisaster](https://www.youtube.com/c/MYDGlobalDiscussingallthingsdisaster)

# Contact Us



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# Questions?



**RESILIENCE READY**  
HELPING COMMUNITIES BECOME MORE DISASTER RESILIENT