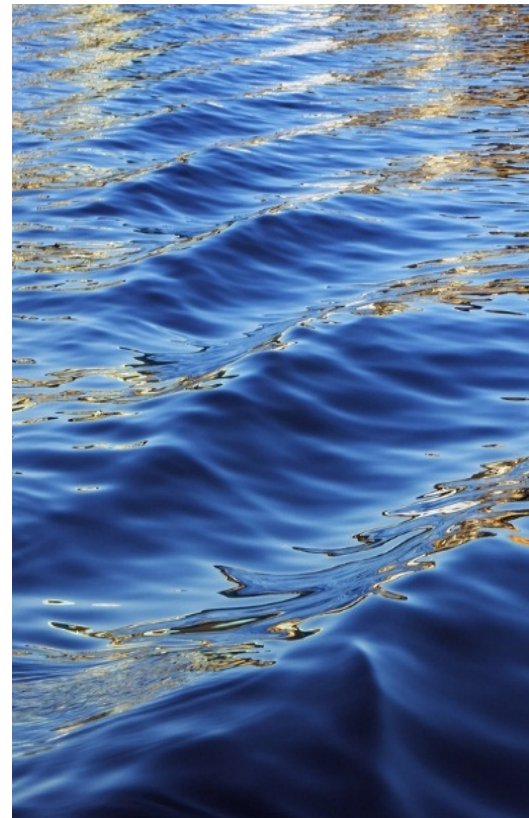




TURNING
RECOVERY INTO
RESILIENT
REVITALIZATION?



Session Overview

- Types and nature of disasters
- Preparation & Mitigation Tips
- Response & Recovery Challenges
- 3 Case Studies:
 - 2016 Alberta Wildfires
 - 2013 Southern Alberta Floods
- What can you do?
- Questions

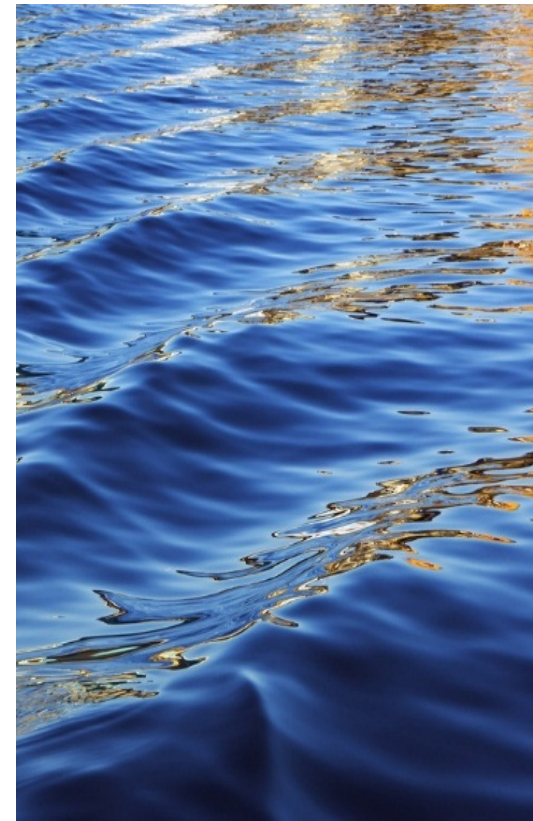


Leann Hackman-Carty

CEO, Economic Developers Alberta



TYPE AND NATURE OF DISASTERS



Types of Disasters

- Types of Disasters:
 - Natural
 - Man-made
 - Technological
- Crises and disasters can damage your economy and scare businesses away. It can take years to recover.

Nature of Disasters: Development

- Unchecked development and increased population growth increase risk

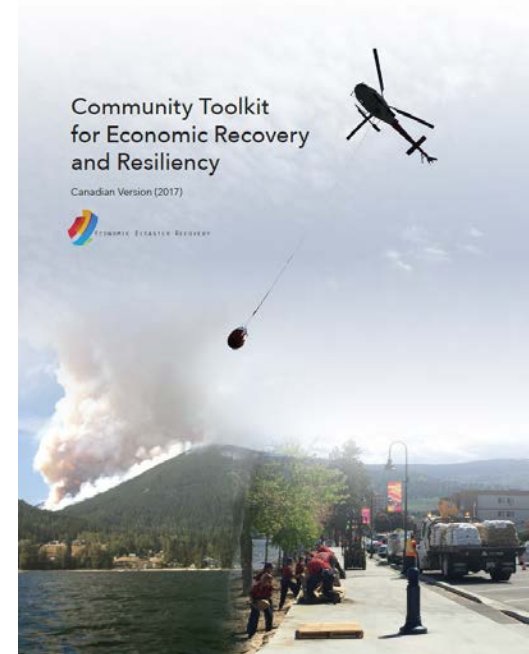


Nature of Disasters: Cost

Year	Event	Country	Economic Cost (\$ Billions)
2011	Tōhoku earthquake and tsunami	Japan	\$300+
2008	Sichuan earthquake	China	\$148
1995	Great Hanshin earthquake	Japan	\$102.5
2010	Deepwater Horizon oil spill	US	Between \$60-100
2005	Hurricane Katrina	US	Insurance compensated \$45
2011	Thailand Floods	Thailand	\$45.7 (estimate of economic damage/loss)
2011	Christchurch earthquake	New Zealand	\$40
2008	Hurricane Ike	US	\$29.6
1998	Yangtze River floods	China	\$26
1992	Hurricane Andrew	US	\$25
2001	September 11 terrorist attacks	US	\$20.7
1994	Northridge earthquake	US	\$20
1986	Chernobyl disaster	Ukraine	\$15 direct loss+ future impacts
2004	Indian Ocean earthquake and tsunami	Indian Ocean	\$15
1985	Armero tragedy	Columbia	\$7
2016	Fort McMurray wildfires	Canada	\$3.6+ insurable damage
1998	Ice Storms	Canada	\$1.9 B insurable damage
2013	Alberta floods	Canada	\$1.8 insurable damage
1989	Exxon Valdez oil spill	US	\$2.5 cost, recovery for settlements \$1.1, economic loss \$2.8
2003	Cedar Fire	US	\$2
2001	AZF chemical plant explosion	France	€1.8 billion
2011	Slave Lake wildfire	Canada	\$750 million

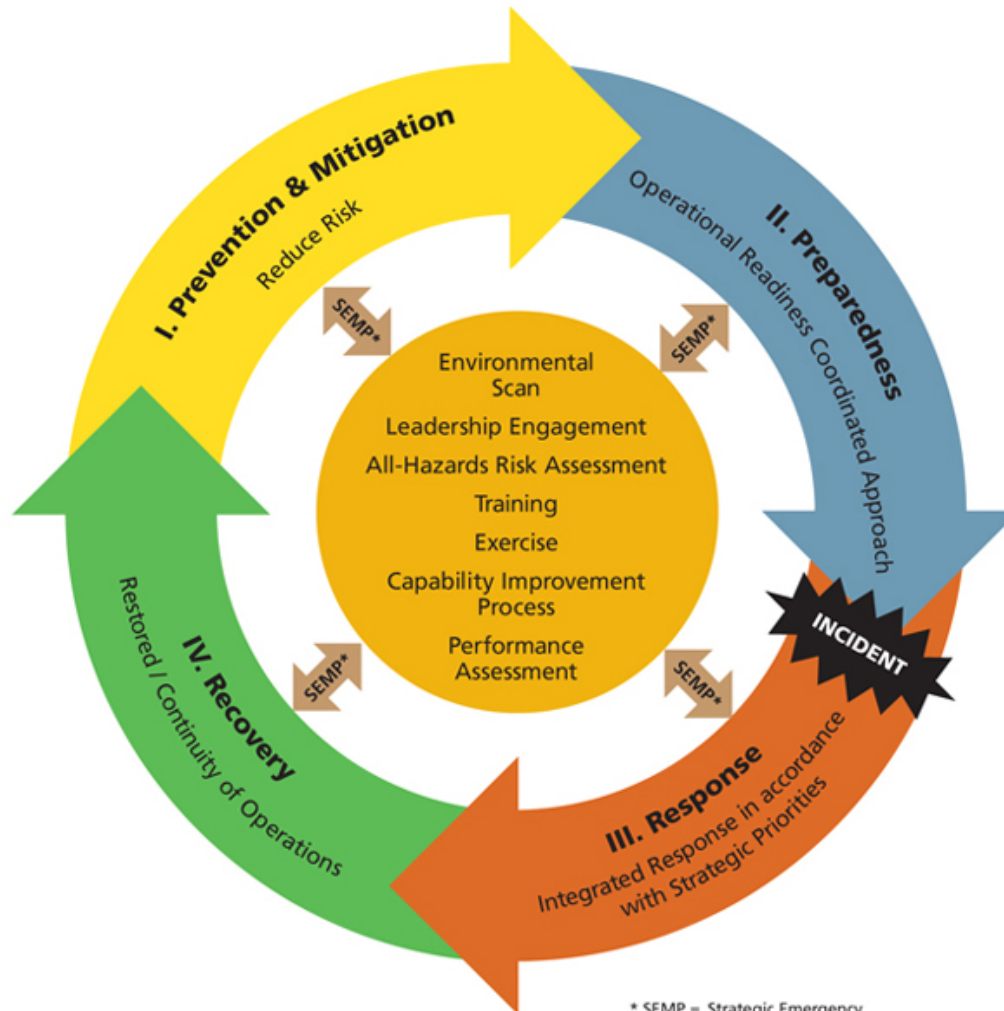
Nature of Disasters: Best Practices

- Disasters are unique, but many principles and processes are similar



Nature of Disasters: Be Prepared

Emergency Management Continuum



* SEM = Strategic Emergency Management Plan



PREPARATION & MITIGATION TIPS

Pre-Disaster Planning Tips

- Identify critical business functions
- Understand/adjust your insurance plan
- Identify a backup office location and data system
- Collect critical emergency contact information
- Engage your business community in preparedness
- Build an Economic Response/Recovery Team



RESPONSE AND
RECOVERY CHALLENGES

Response & Recovery Challenges

- Who's on first?
- Communication
- Assessing impact
- Business retention (small and large)
- Provincial/Federal systems and rules
- Long-term blight/redevelopment
- Lack of local experience/capacity to manage complex recovery issues/
projects

Post-Disaster Recovery Tips

- Business Emergency Hotline
- Business Recovery Centre
- Inventory of financial and technical resources
- Case management approach to business assistance
- Specific workshops
- Regular communication to business community

Case Studies

- The following case studies will illustrate:
 - how business can be impacted;
 - how to respond;
 - how to think about the short, medium and long term impacts;
 - how to integrate disaster preparation, mitigation, response and recovery into your ongoing planning efforts.



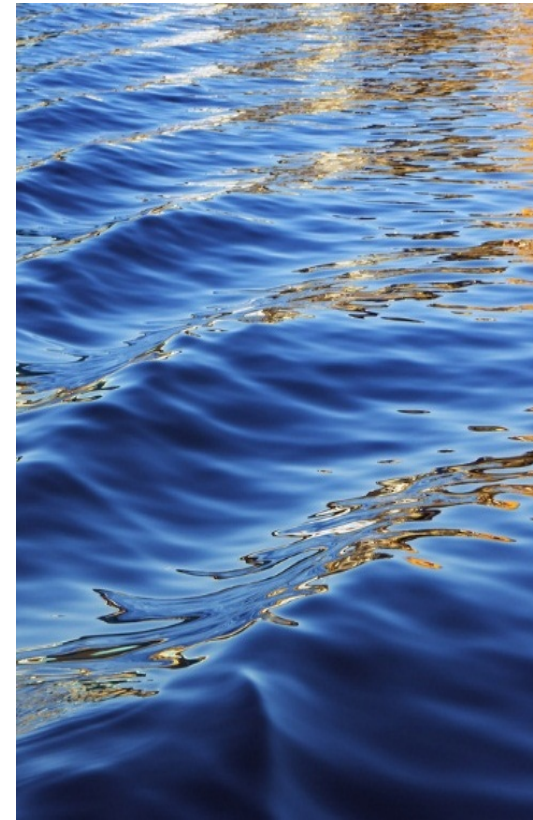
Kent Rupert

Team Leader, Airdrie Economic Development

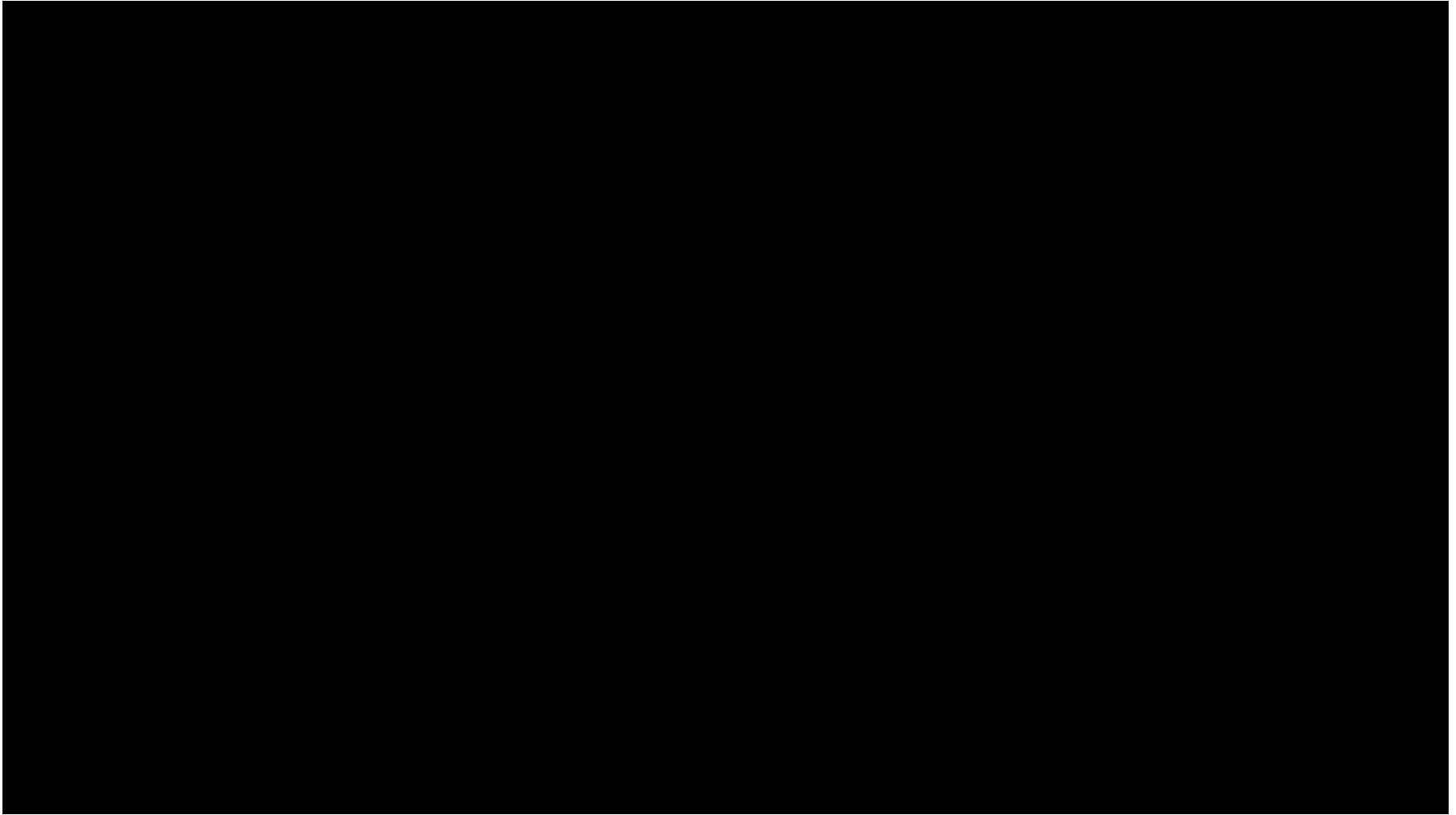


2016 ALBERTA WILDFIRES

A CASE STUDY



Alberta Wildfires (2016)



Case Study: Alberta Wildfires

- Wildfire displaces over 80,000 residents, and destroys 1595 structures (2579 dwelling units)
- Costliest disaster in Canadian history (\$3.58 billion)
- With the whole community evacuated, spread across the country, how can the community contact businesses to find out what their immediate needs are?

Case Study: Alberta Wildfires

- May 25, Council approves Business and Economic Recovery Plan
- May 30, Economic Developers Alberta (EDA) opens the Wood Buffalo Business Recovery Hotline in collaboration with the RMWB Economic Development Department
- Funded solely by the Canadian Red Cross



Case Study: Alberta Wildfires

- By August 31 the Hotline:
 - Handled over 15,000 calls, and registered 4,134 companies
 - Completed a needs survey and provided case management
 - Gave 3,296 companies each \$1000 emergency grants
 - Implemented a social media campaign. More than 1200 unique website visits, reaching over 40,000 individuals in the region.



Case Study: Alberta Wildfires

- Back to Business Resource Centre:
 - YMM Welcome Walks
 - Ask an Expert Program/Learning Events
 - Back to Business Coaching Program
 - YMM Home Shows/Expos
 - BSN Events
 - Job Fair
- Canadian Red Cross Phase 2/3 Funding
- RMWB Small Business Workforce Support Program



Case Study: Alberta Wildfires

- EDA Technical Assistance Visit/Report:
 - 10 member team
 - 1 week of stakeholder meetings
 - Over 200 interviews
 - Over 50 immediate, short, medium and long term business and economic recovery recommendations



1
**Embracing the new
economic realities:
after the wildfires**

Economic Opportunity Assessment
prepared for Regional Municipality of Wood Buffalo
by EDA's Economic Opportunity Assessment Team
May 2017

Case Study: Alberta Wildfires

- Key Challenges:
 - Business processes and governance
 - Insurance
 - Real estate
 - Business supports
 - Workforce
 - Market Access
 - Social issues
 - Economic issues
 - Indigenous/Rural challenges
- Impacts will be felt for years to come



Angela Groeneveld

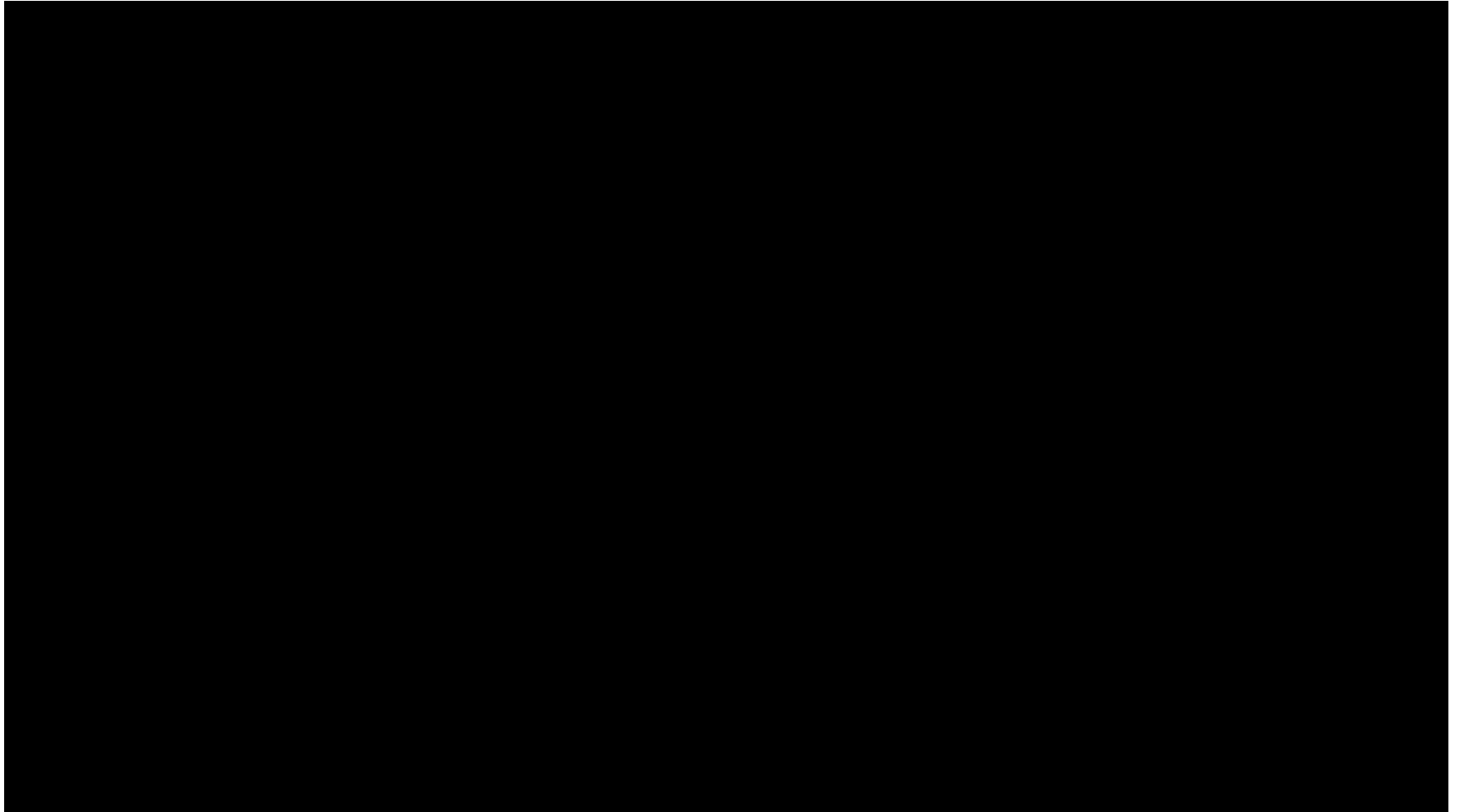
Consultant, AG Business Consulting



2013 SOUTHERN ALBERTA FLOODS

A CASE STUDY

Alberta Floods (2013)



Case Study: Alberta Floods

- Angela to add content here

Case Study: Alberta Floods

- Key Learnings: (emphasis on long-term recovery)



Mickie Valente

President, Valente Strategic Advisers

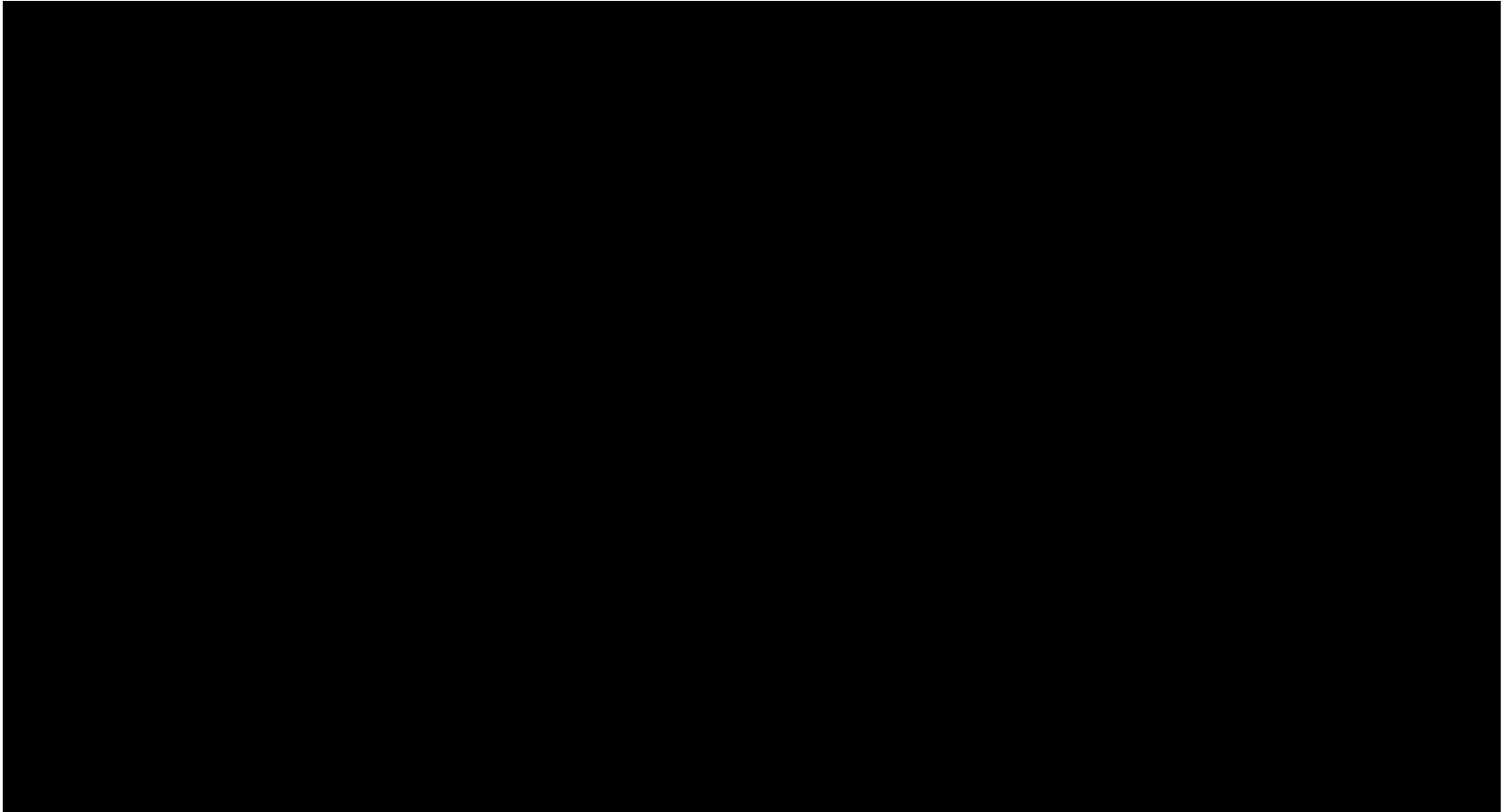


WHAT CAN YOU DO?

INTEGRATING RESILIENCE



Hurricane Harvey-2017



Building Resilience

- In terms of economic development, communities that take steps to be **resilient** are better able to:
 - Withstand shocks
 - Recover quickly
 - Avoid shocks entirely

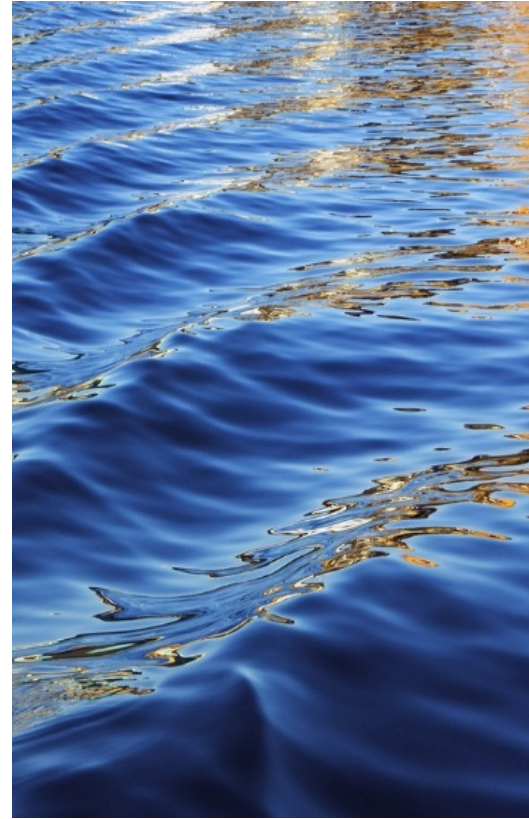
Integrating Resilience

- What is resilience?
- How can EDO's integrate disaster response into their planning?





CLOSING THOUGHTS



Things to Consider...

- Be prepared
- Know who is on first
- Don't reinvent the wheel
- Get started today!

Resilience- Investing in Tomorrow





QUESTIONS?

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