

Calgary

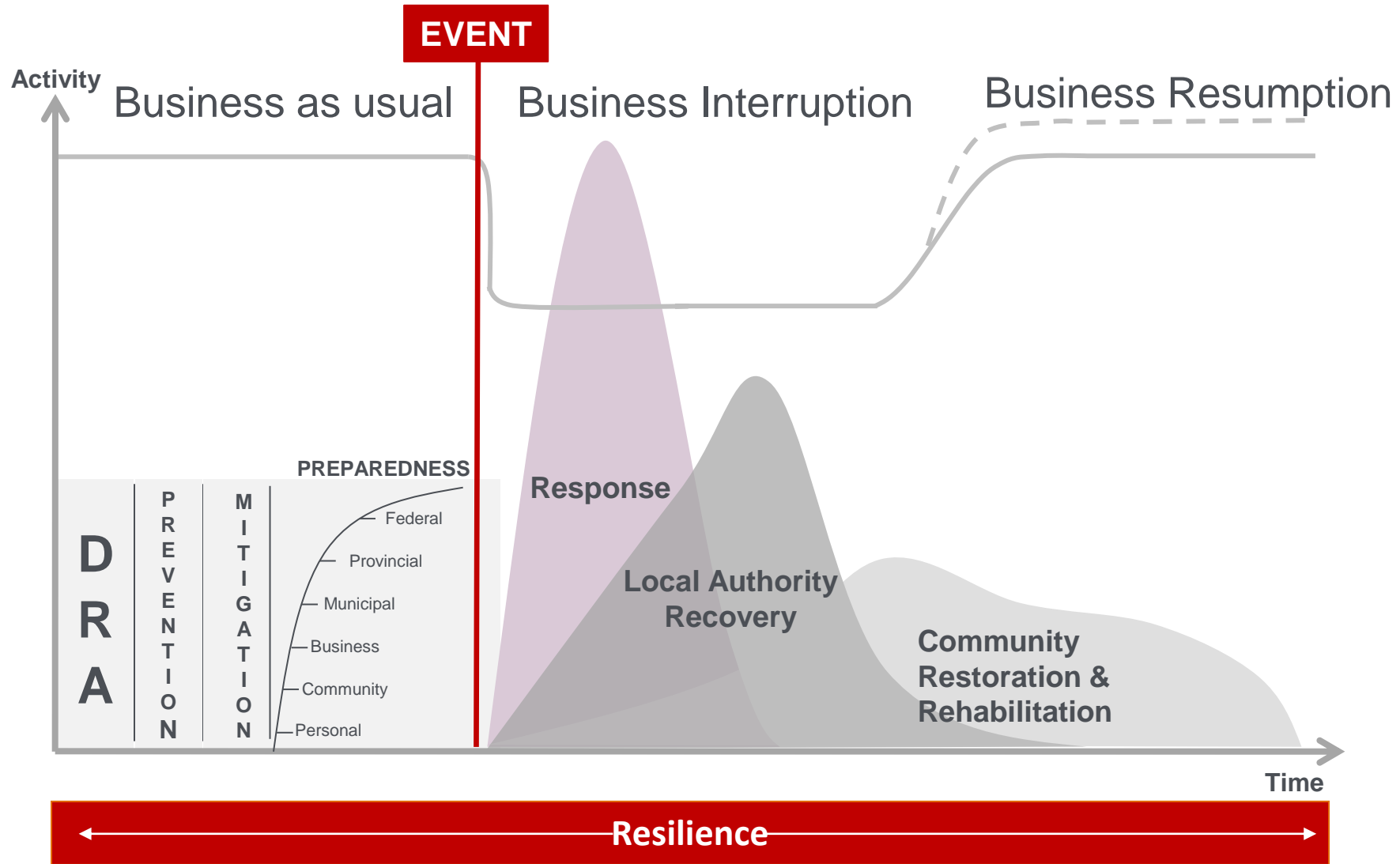


2022 Status of Emergency Preparedness in Calgary

2023 February 8



Comprehensive Emergency Management





2022 Disaster Risk Report

Calgary's 16 High Risks

Natural

- Blizzard
- Extreme Cold
- Flood (Bow River)
- Flood (Elbow River)
- Heavy Rainfall
- Hydrological Drought
- Pandemic*
- Tornado
- Winter Storm

Technological

- Critical Infrastructure Failure
- Dam Breach (Bow River)
- Dam Breach (Elbow River)*
- Rail Incident

Human Induced

- Civil Disobedience*
- Mass Casualty Attack
- Hostage Incident

*New Risks in 2022



Civil Disobedience



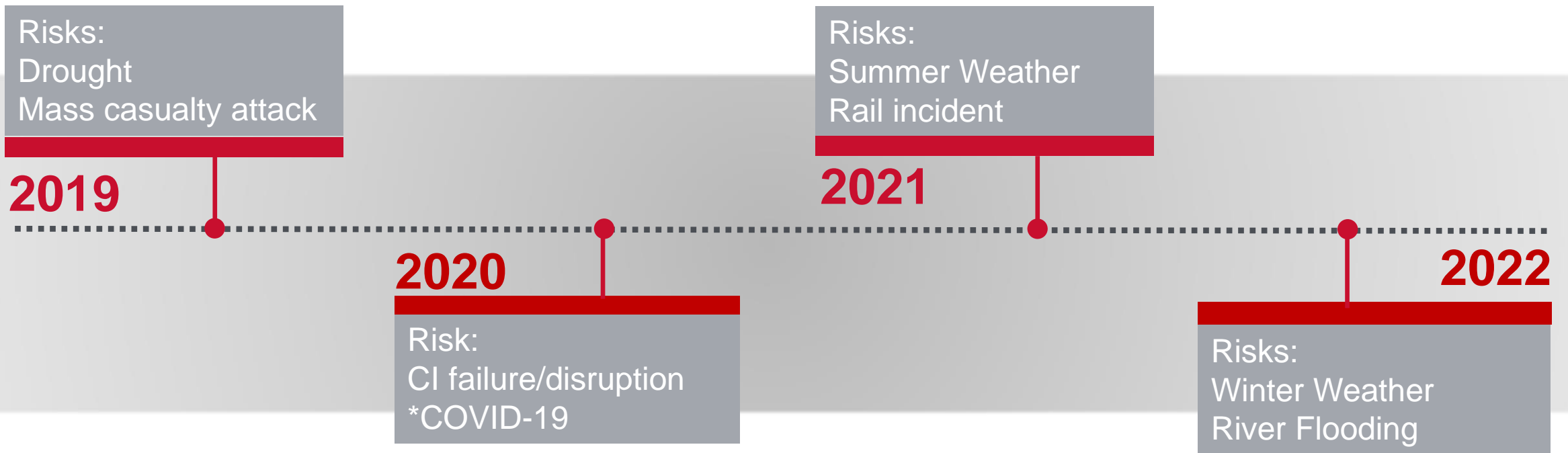
Dam Breach (Elbow)



Pandemic



Risks in Profile – Presentations to EM Committee



2022 Risks in Profile



River Flooding



Winter Weather



2022 Preparedness and Response

Rebuilding from COVID-19

Pandemic Response 2022

- Transition from pandemic response & return to other Emergency Management priorities
- Wrapping up COVID initiatives & demobilizing response
- Identifying & implementing lessons learned





June Heavy Rainfall - Response

Proactive Response

- Closed stormwater outfalls
- Lowered water levels in Glenmore Reservoir
- Deployed pumps to low-lying communities
- Constructed temporary berm

<p>2-DAY RAINFALL AMOUNT</p> <p>80-100 MM</p>	<p>5-DAY 311 STORM-RELATED CALLS</p> <p>872 URGENT & PRIORITY</p>	<p>5-DAY 911 STORM-RELATED CALLS</p> <p>447 CALLS</p>
<p>↑ June monthly average is 80mm</p>	<p>↑ Same day call volume in 2021 was 292</p>	<p>↑ 2.5X higher than average call volume</p>

June Heavy Rainfall – Mitigation

Mitigation Pays Off

- Investments in flood mitigation since 2013 have reduced the flood risk by 55%
 - = \$93 million annual damage reduction
- Once completed, projects will reduce flooding risk by 70%
 - City will be fully protected from 2013-level event

Flooding Risk is Increasing

- Heavy rainfall will increase as the climate changes:
 - 10-15% by 2050
 - 10-20% by 2080

Return on Investment

Up to \$6 savings for every \$1 spent on mitigation

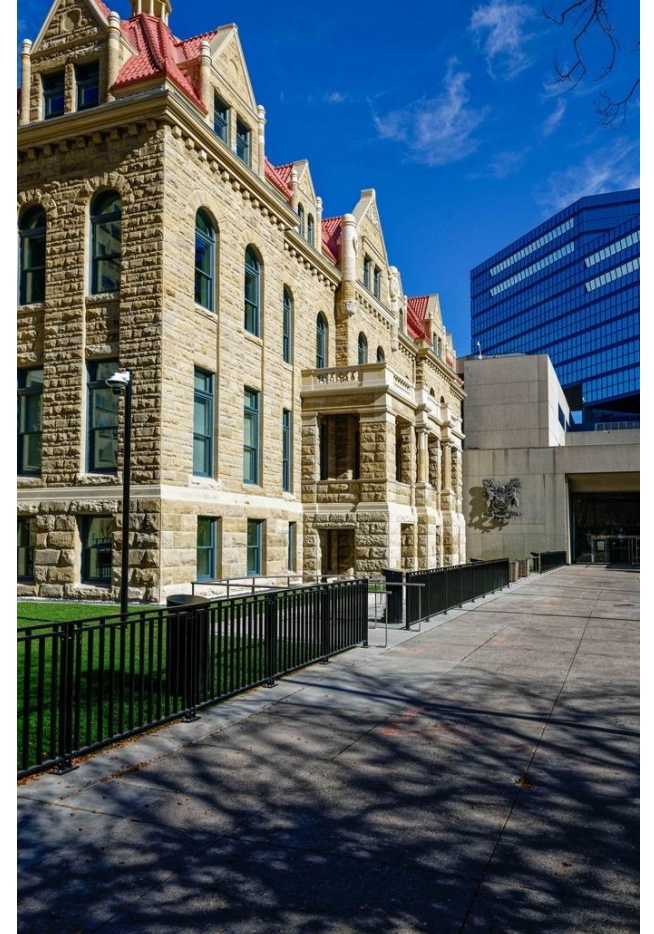


Organization Realignment



Aligning the Agency

- 19% net new Agency member organizations
- 35% new Agency representatives
- Renewed focus on training
- Updating the Municipal Emergency Plan in 2023



Emergency Planning Focus

Extreme Heat Plan



Extreme Cold Plan



2022 Highlights

Mitigation



Response



Preparedness



Recovery





2023 and Beyond

Strengthening the Agency



Supporting Climate Change Adaptation



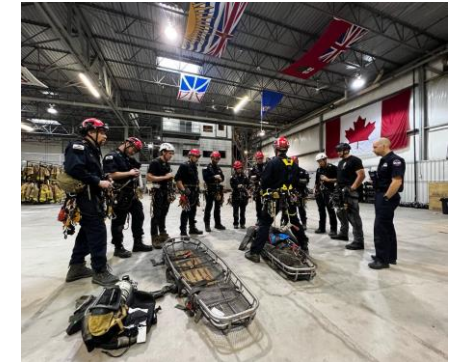
Fostering Corporate Resilience



Building Community Resilience



Advancing Canada Task Force 2



The Year Ahead