

Learning the Hard Way – The Evolution of Emergency Management

Chief Tom Sampson
Calgary Emergency Management Agency
(CEMA)

Calgary 🎉

Vision

Calgary: A great place to make a living, a great place to make a life.

Common purpose

Making life better every day.

Mission

Strengthening and empowering partnerships to collaboratively build a resilient Calgary.

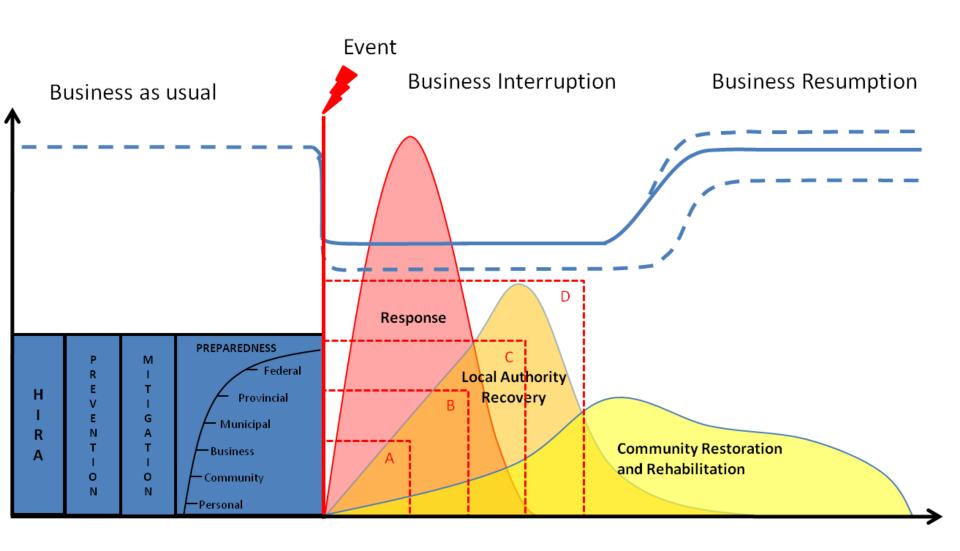
Values

Individual responsibility, Collective accountability

• One team, collective goals: collaboration for excellence.



Comprehensive EM Model

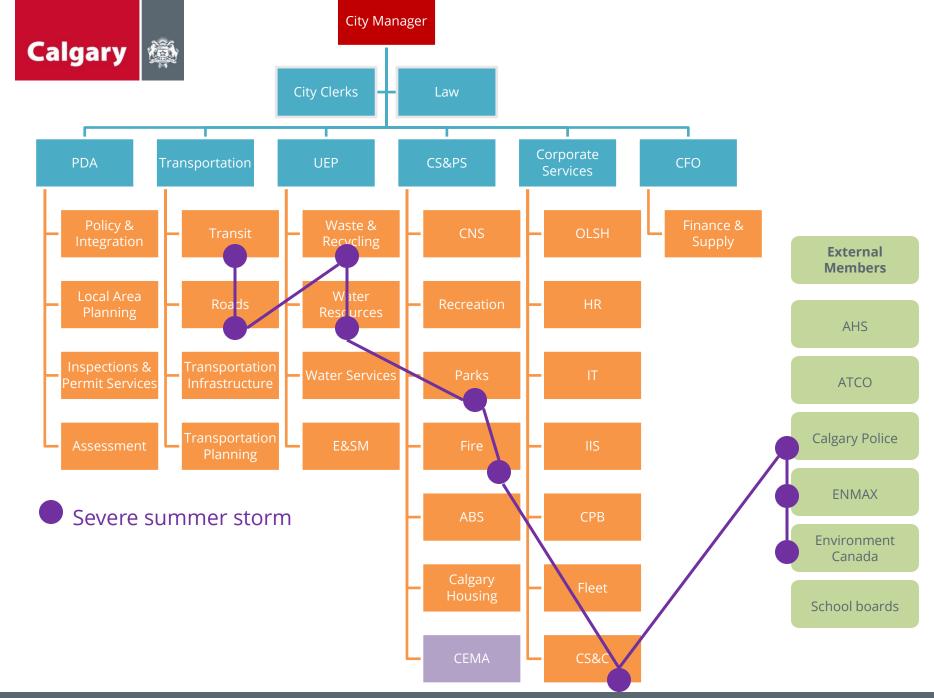




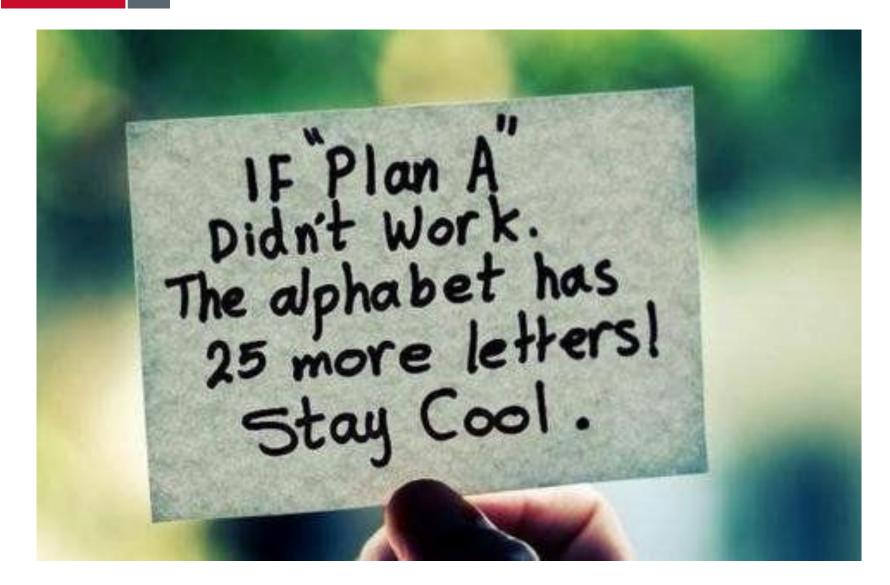


Clear Priorities

- 1. Life Safety
- 2. Property (Critical Infrastructure)
- 3. Environment
- 4. Economy









Agenda

- l. The past
- II. The world today
- III. Drivers of change and the future



Edmonton Tornado 1987



Calgary

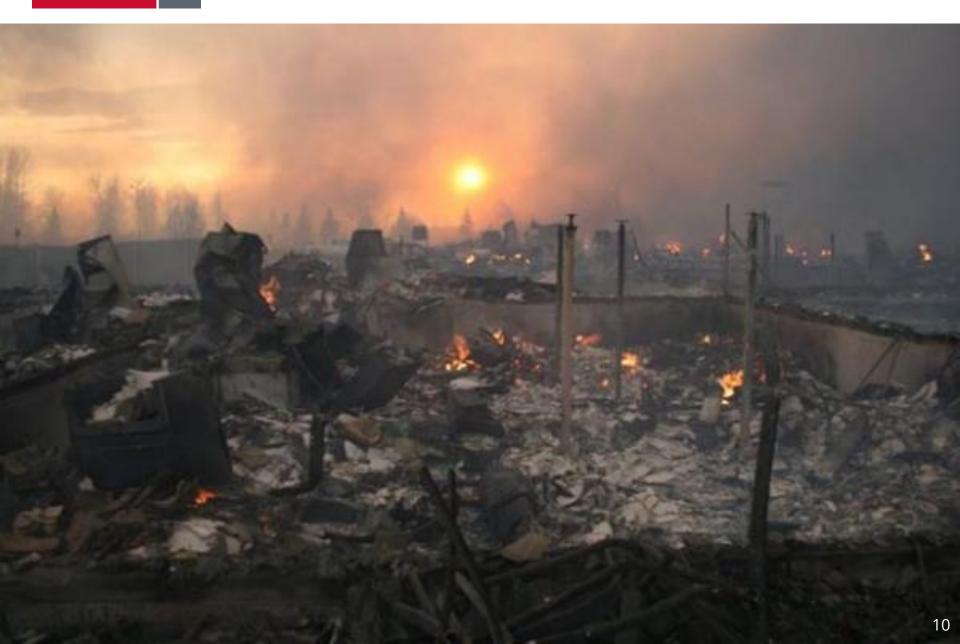


Tornado Pine Lake 2000



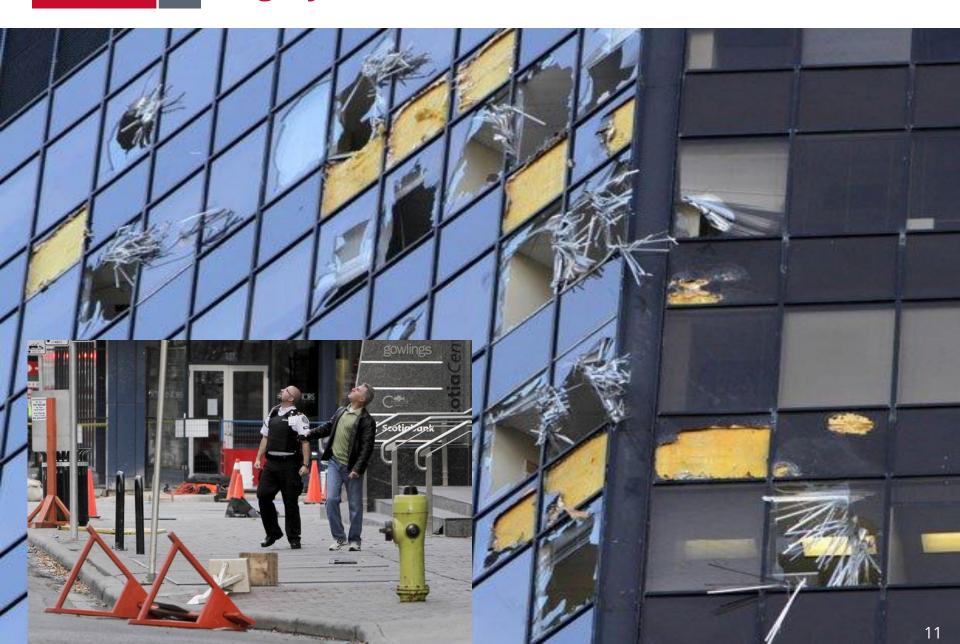


Calgary Slave Lake 2011



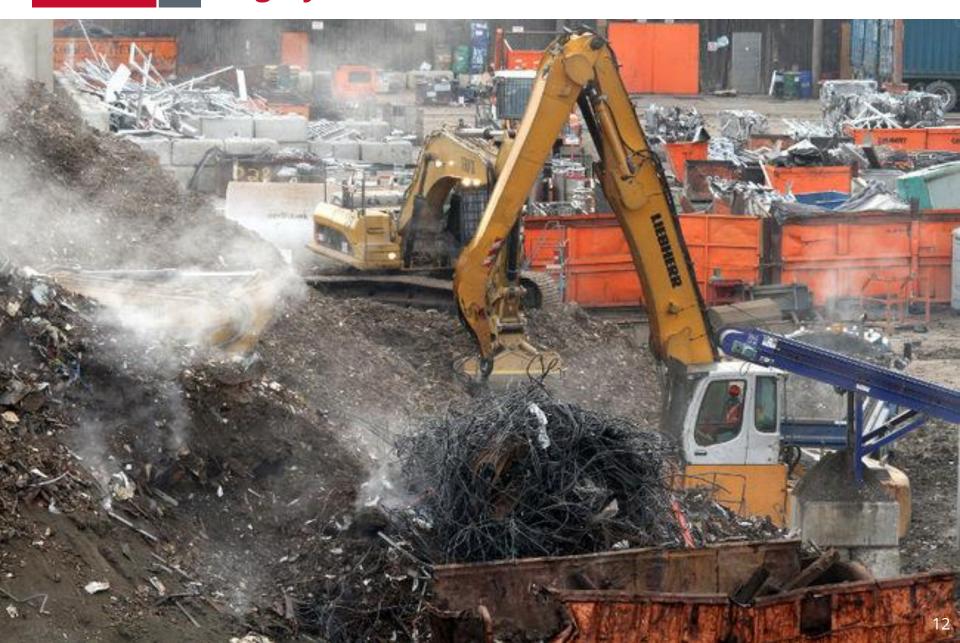


Calgary Windstorm 2011





Calgary Metals Fire 2012





Calgary Flood 2013



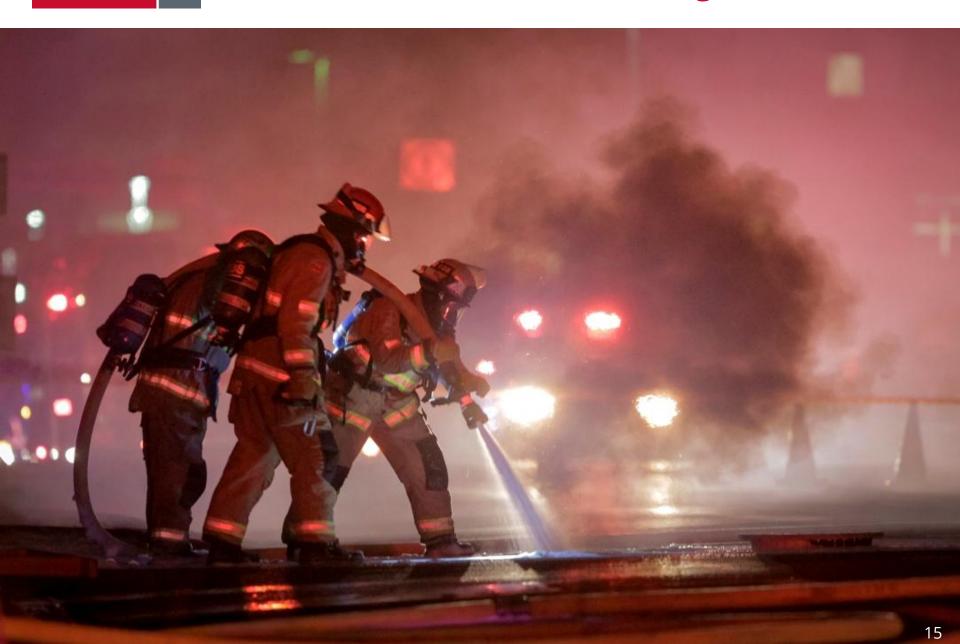


Calgary Snowtember 2014



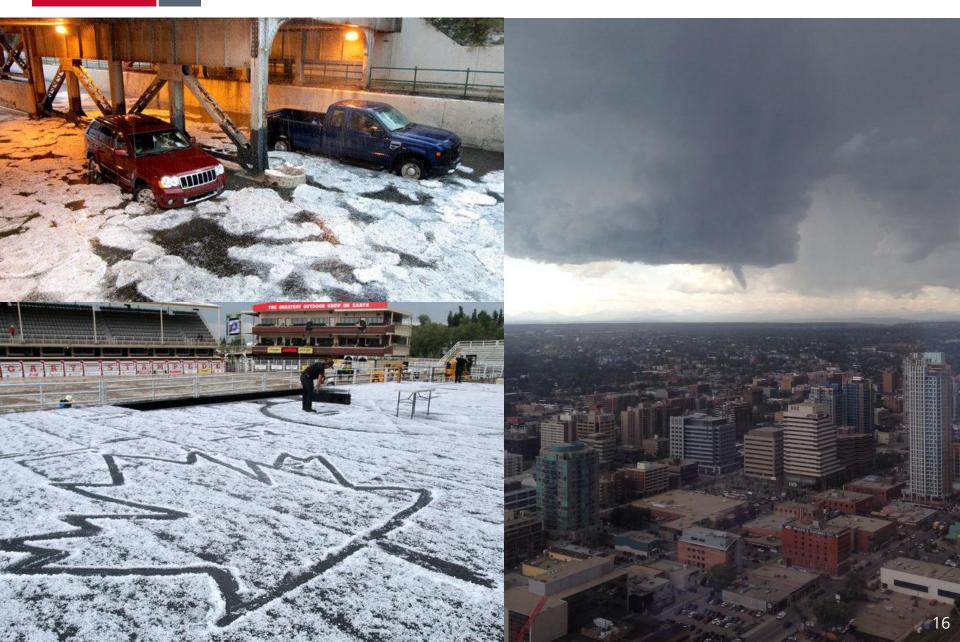


Calgary Downtown Fire and Power Outage 2014





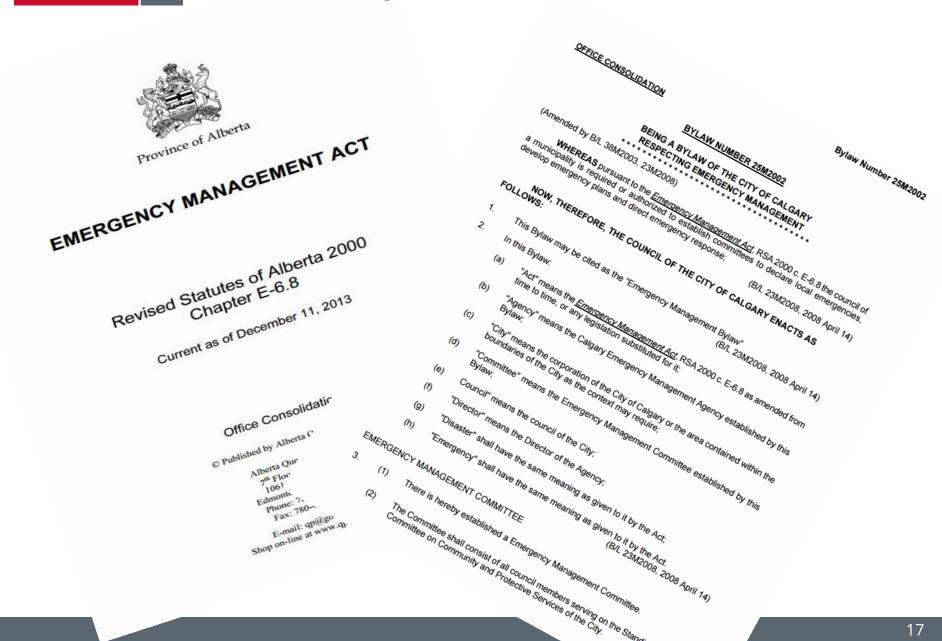
Calgary Severe Weather Events 2015







EM as a discipline





Social and technological trends







Economic and political trends

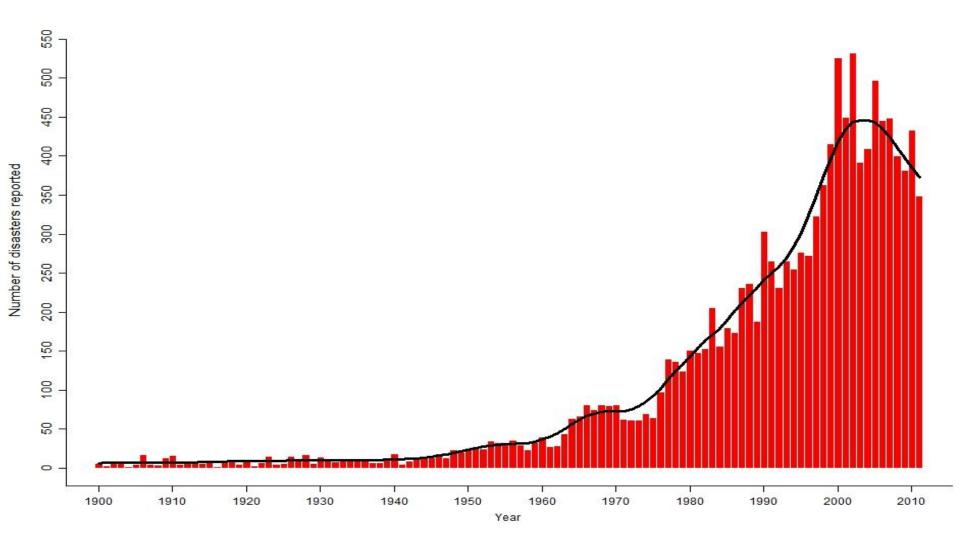






Environmental trends





Calgary



Environmental trends





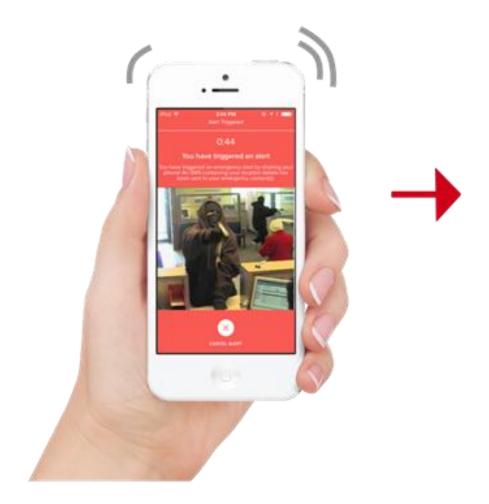


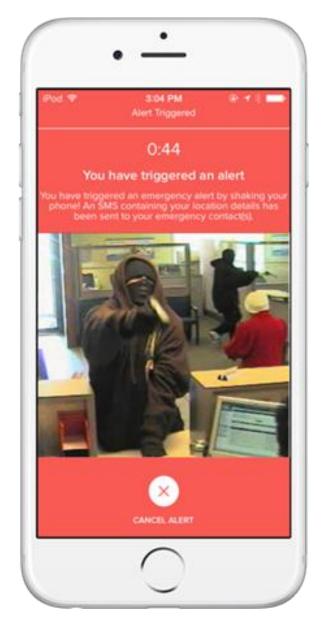
DRIVERS OF CHANGE AND THE FUTURE

When a defining moment comes along, you define the moment, or the moment defines you.



Calgary A connected world



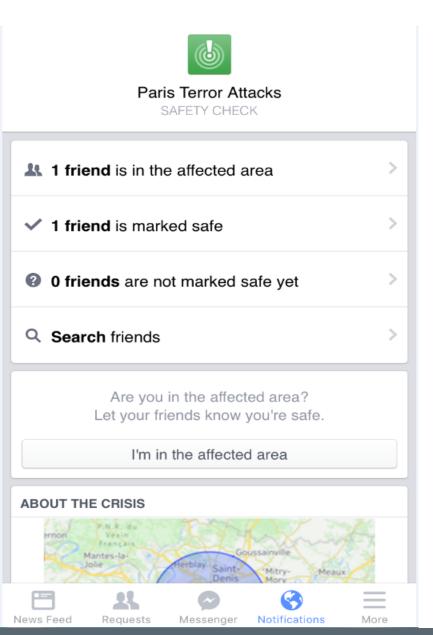


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A connected world









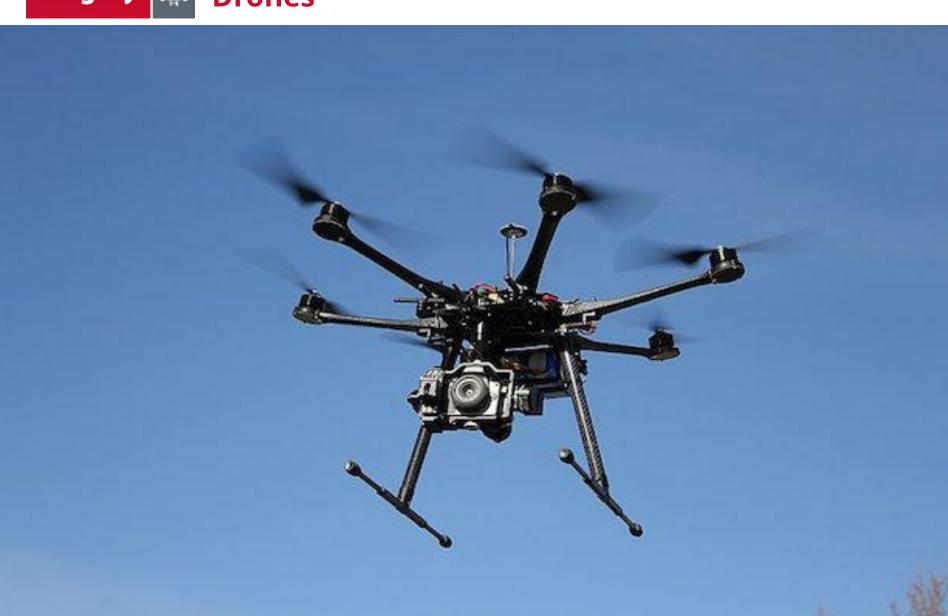
Public Alerting







Drones



Calgary



Data

Twitter

Most Popular Hashtags (# of Tweets)

Combined Amount of Tweets for the Six Most Popular Hashtags.



85/ Thousand

#Calgary #ABFlood #YYC #YYCHelps #CalgaryFlood #YYCFlood

Most Retweeted Users







Calgary Police



Global Calgary

@GlobalCalgary



Eric Francis

@EricFrancis



Weather Nework

@WeatherNetwork

10,440

7.652

7,250

14,522

70,757 Retweets



facebook

The flood as it happened























There is flooding across southwestern Alberta, with mudslides in Banff and Kananaskis, overland flooding in Black Diamond and Canmore.

Homes in Canmore near Cougar Creek are being evacuated.

Photo courtesy Justin Parsons at the Canmore Leader

http://www.calgarysun.com/2013/06/20/heavy-rain-in-banff-canmore-area-causes-flooding-forces-evacuations



ke - Comment - Share

£ 50 □ 20 □ 251

Naheed Nenshi shared a link. June 20 @

STATE OF LOCAL EMERGENCY DECLARED

Pursuant to Section 21 of the Emergency Management Act (R.S.A. 2000 Ch. D-13) and Section 4 of The City of Calgary Bylaw 25M2002, a State of Local Emergency (SOLE) has been declared in The City of Calgary ... See More



Like - Comment - Share

The City of Calgary - Flooding in Calgary calgary.ca

₫ 114 Q 19 🕝 492

URGENT: EVACUATION PLAN - PLEASE SHARE

If you live in the following communities, please evacuate now: Mission, Elbow Park, Stanley Park, Roxboro, Rideau and Discovery Ridge.

Here is the full release:

Naheed Nenshi

The City has declared a State of Local Emergency.

To address the safety and security of citizens in low-lying areas, mandatory evacuation orders have been issue for six communities along the Elbo... See More

Like - Comment - Share

🖒 245 📮 173 🖫 4,906

™ CLEAN-UP

2014 SEPTEMBER SNOW STORM & TREE DEBRIS CLEAN UP

PITCH-IN, PICK-UP and PULL-TOGETHER



The City has **500,000 trees** in its inventory, each of which requires ongoing assessment and/or pruning.



City landfills extend hours and waive tipping fees for those bringing in clean tree debris.



The City opens 33 leaf and pumpkin recycling depots

 two weeks earlier than usual - to accommodate community tree debris.

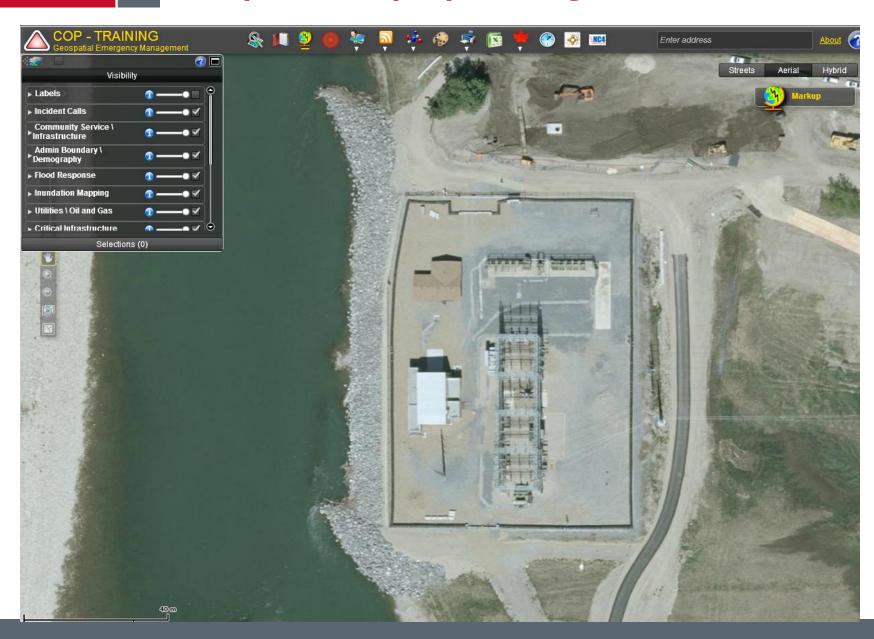


10,000 loads representing 5 million kgs of tree debris has been collected in Calgary landfills alone.

(as of Sept 17, that's enough tree debris to fill McMahon Stadium 3m high).



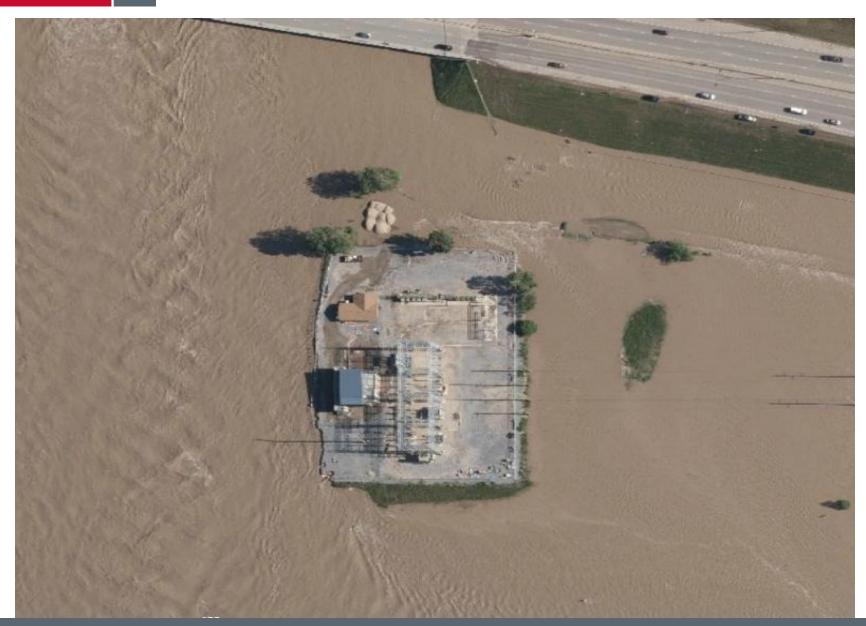
Calgary The power of preplanning



Calgary 🎉



The power of preplanning





Community Engagement

Emergency and disaster relief volunteers Organized volunteer groups Spontaneous volunteers

Engaging volunteer organizations and citizens in providing support and assistance following a disaster







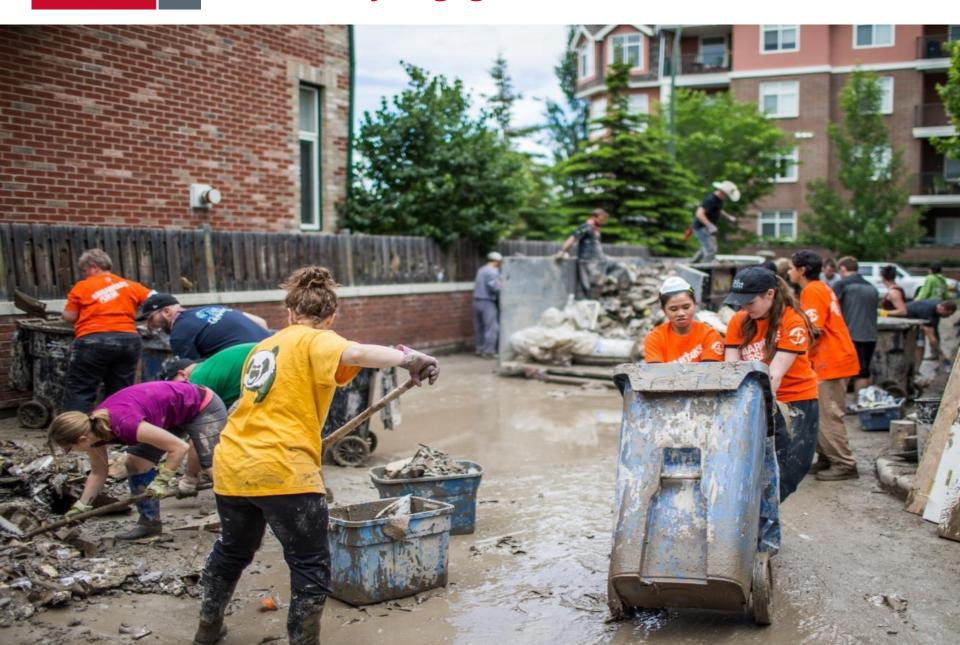
















Having our message heard



Calgary Emergency Management Agency Household **Emergency Action Plan Emergencies: Dial 9-1-1** CEMA CALGARY calgary.ca | call 3-1-1

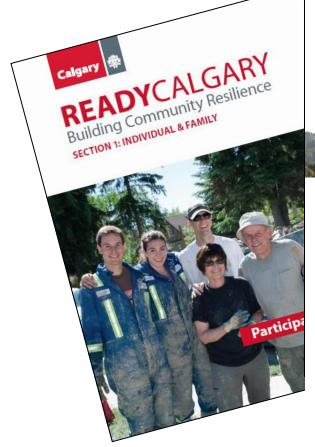
34% of Calgarians

48% of Calgarians

Calgary

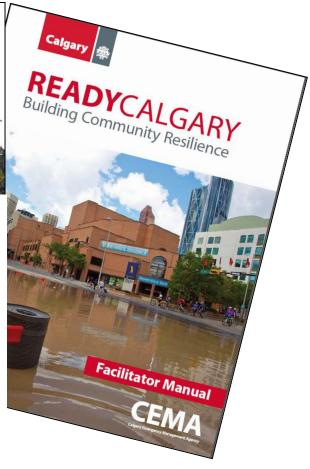


READYCALGARY









Calgary Emergency Management Agency **READYCalgary** Kids Emergency Preparedness Teacher Guide

Calgary



Canada Task Force 2

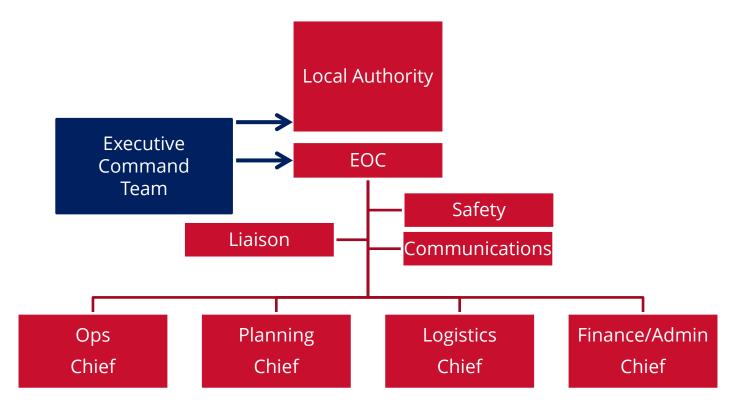




Executive Command Team

- Experienced emergency managers
 - Multi-disciplinary
 - Incident Command System trained
- Future of Executive Command:
 - Steering Committee
 - Multi-jurisdictional
 - Common level of training









- Available immediately
- Trained and experienced with demonstrated successes
- Leverage existing resource investments
- Opportunities for participation by all municipalities

Calgary

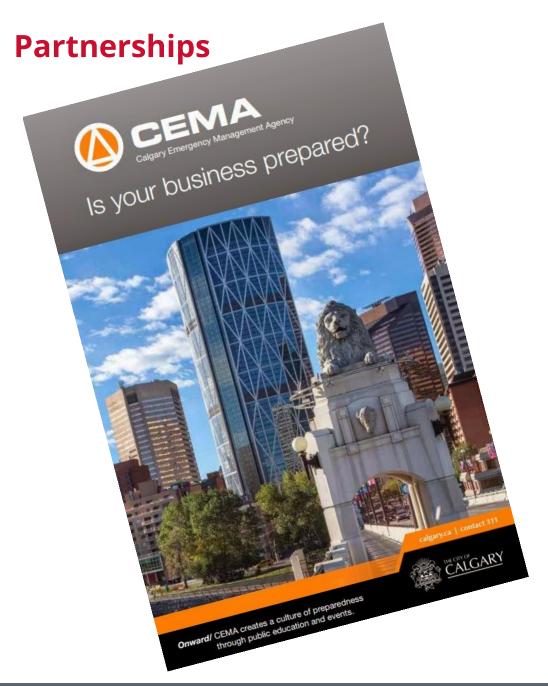


EOC Models



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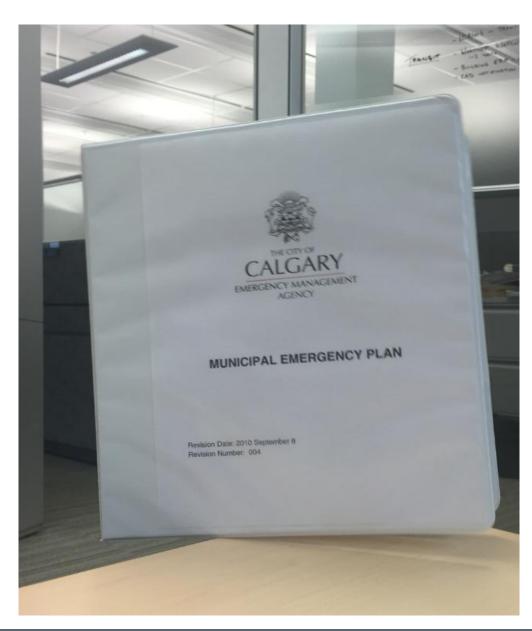


Challenges to the Profession

- Corner of the desk
- II. Candidates of tomorrow
- III. Tap into genius
- IV. Response focused
- V. No execution
- VI. Selling



Corner of the desk



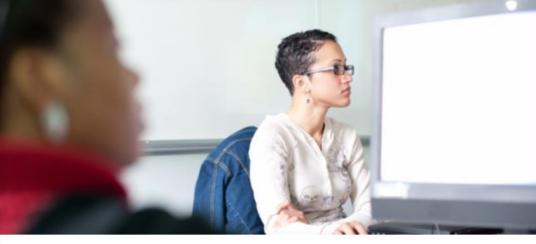
Calgary 🎉



Candidates of Tomorrow







Master of Arts in Disaster and Emergency Management







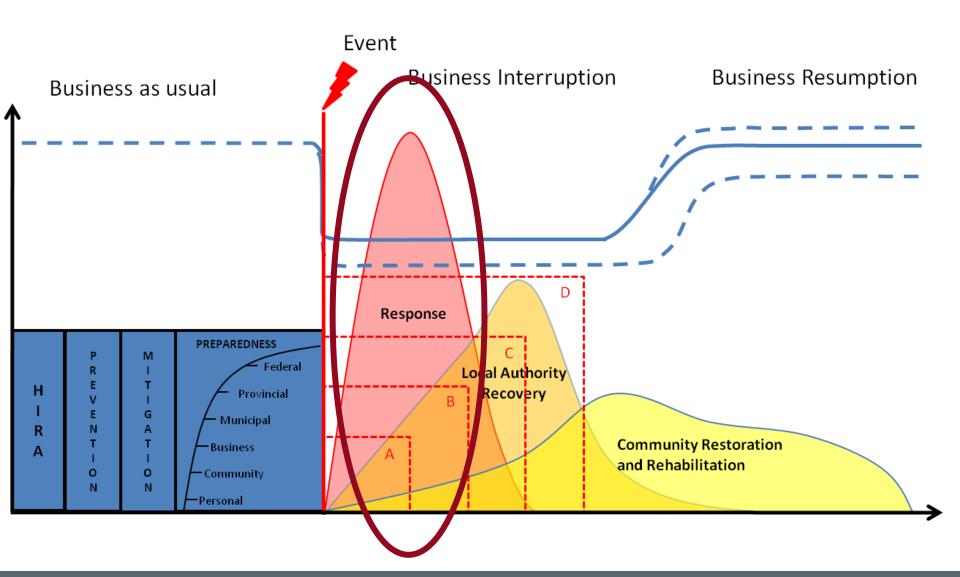
Calgary Tap into genius







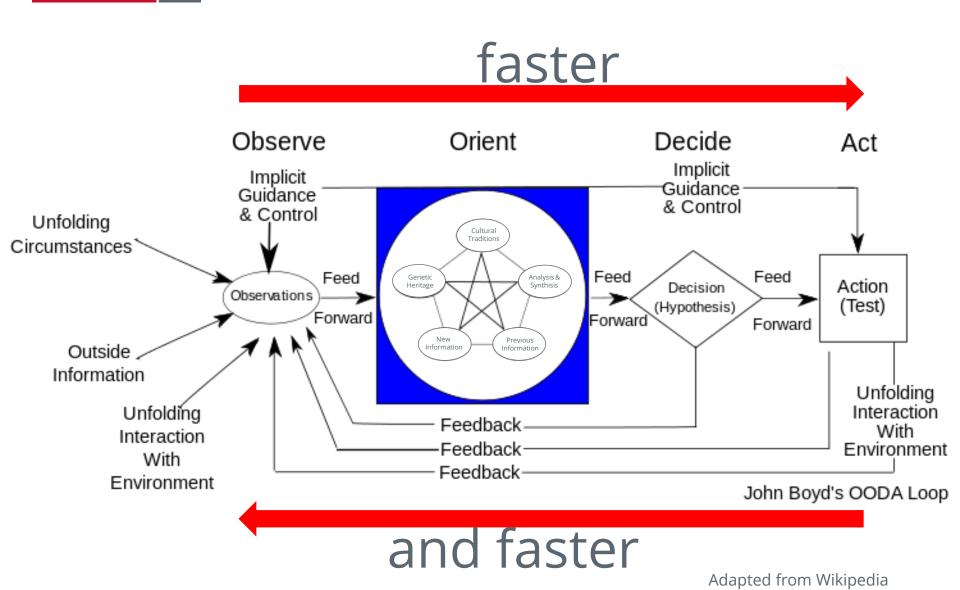
Comprehensive EM Model - Response focussed





No execution









Selling the program



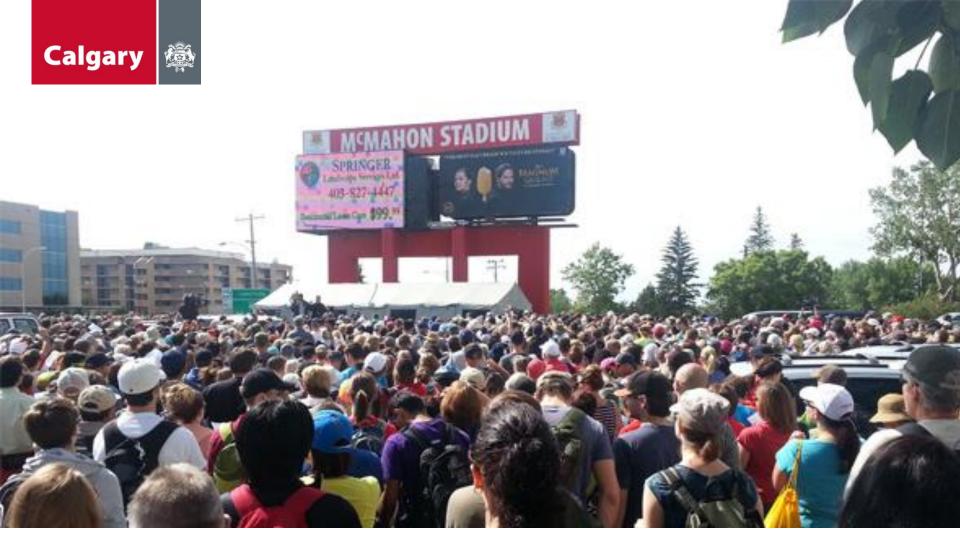


Leadership



The only thing that is constant is change. ~Heraclitus





Comments or Questions?