IN ENGINEERING TRADITIONS ROOM

JUL 15 2015

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Presentation

CITY CLERK'S OFFICE

#### OPERATIONS TO SERVICE OF THE CONTRACTOR OF THE C

2013 Flood Recovery Framework

EM2015-0610

Flood Recovery Lessons Learned / Recommendations

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Previous
Conference
Board of Canada
review of
response

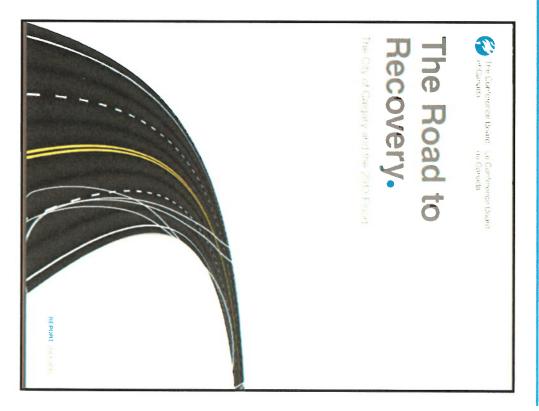




#### Le Conference Board

#### The City of Calgary and The Road to Recovery: the 2013 Flood

**LESSONS LEARNED -**Recommendations





The Road to Recovery
The City of Calgary and the 2013 Flood

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Director, National Security and Strategic Foresight The Conference Board of Canada

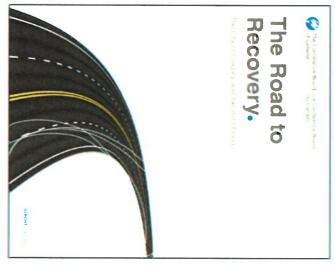
15 July 2015

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#### **Project Approach**

- The Conference Board of Canada was contracted by the City of Calgary for an independent review of its ROC.
- Our research team reviewed a variety of documentation (the Recovery Framework, Council documents, external reports).
- Researchers interviewed three dozen officials with recovery outstanding challenges. responsibilities to collect views on lessons learned and





#### Lessons Learned

- The following lessons learned cover aspects of recovery where The City of Calgary performed particularly well.
- These lessons learned need to be acknowledged, documented, nature before the next long-term recovery effort is required. and turned into best practices in order to make them second



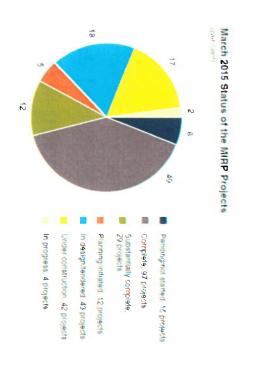
#### Lesson Learned 1 – Starting Right Away

- Starting recovery right away and matching recovery intensity to key to setting Calgary on the right path after the flood. response efforts proved invaluable. The pre-flood training and preparedness of the City's Administrative Leadership Team was
- Despite some issues surrounding confusing lines of authority, cosight communications and coordination. during initial recovery provided great benefits in terms of line-oflocating the Emergency Operations Centre (EOC) and the ROC



#### Lesson Learned 2 - The Value of Metrics

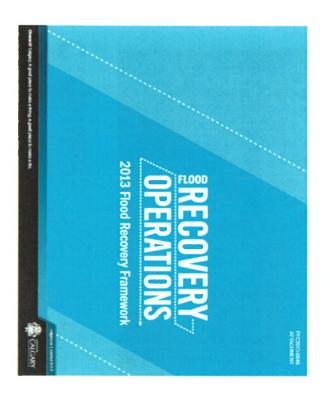
 The appointment of a recovery director and the work of the ROC Task Force to develop the 2013 Flood Recovery Framework were of critical importance for progresstracking through key metrics, performance indicators, and deliverables.





#### Lesson Learned 3 — ROC as a Trusted Voice

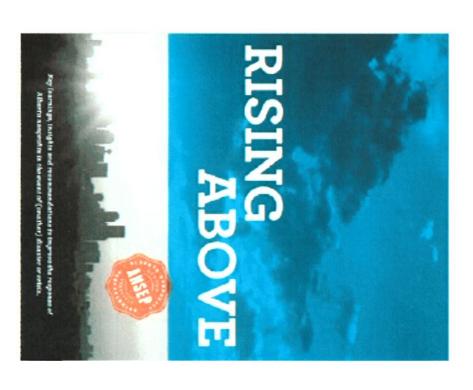
The ROC was essential for centralized communications, building relationships internally and with significant external stakeholders, and establishing a common operational picture for decision-makers, similar to CEMA's EOC for emergency response.





#### Lesson Learned 4 — Listen to Outsiders

 A lesson learned in response that resonates in long-term recovery is the importance of bringing in outside voices for sharing information and addressing how authorities can help the not-forprofit sector in building a stronger community focus on recovery.





#### Lesson Learned 5 – Rebuild with Resilience

- After a massive emergency, there is a need to quickly adapt standards compliance of new development or repair to flood mitigation issued new building codes (STANDATA) structured to ensure policies to reflect new realities. The Government of Alberta
- The City of Calgary's expedient changing of land-use policy build forms to offer better protection against future flooding. ensured that resilience considerations were included in new



#### Lesson Learned 6 – Focus on Outcomes

- Strong ROC leadership and working with an outcome-focused recoverable through other funding sources. where the City did not have full information on what would be approach helped recovery and resilience projects move ahead
- Focusing on outcomes and the benefits of strong leadership was emergency response. first identified as a best practice in our review of CEMA and the



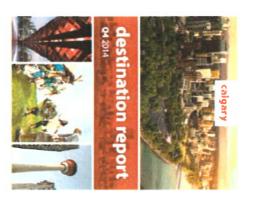
#### Lesson Learned 7 — Effective Prioritizing

- The City of Calgary put all infrastructure recovery projects would be funded and repaired, and in which order. through a four-category prioritization process to determine what
- This approach, a coordinated effort between the ROC and finalization process and is a lesson learned in managing the many recovery projects across the city. Corporate Initiatives, was used in concert with the 2014 budget



#### Lesson Learned 8 – Strong Business Actors

Through such campaigns as YYC is OPEN and events like the Calgary Business Recovery Expo, the Business Recovery Task Force was one of several important actors to advocate for the small and medium-sized business community and to offer a valuable one-stop-shop approach for business owners.







#### Lesson Learned 9 — External Transparency

From an insurance perspective, a municipality does not want to that facilitates building trusted relationships and resilience documenting damage instills a level of confidence with insurers for secrecy or silo thinking. Transparency in assessing and be seen as a bad risk after an emergency, but recovery is no time



#### Lesson Learned 10 – Focus on the Future

- The lessons learned during the recovery of the 2013 flood will Response Manual. The next disaster may not come for years, help validate, develop, and mature CEMA's ROC Resource and may not be a flood, and may not be of the same magnitude
- This validates the scalable recovery model and the CEMA allhazards approach.



#### Recommendations

- The following recommendations are based on an analysis of interviews and indicate areas where The City can improve
- These recommendations need to be considered in conjunction with the areas where The City performed well.
- Some recommendations speak to aspects that go beyond longterm recovery.



### Recommendation 1 — The Stress of Recovery

Municipal employees with flood recovery-related roles need to environments that go beyond the demands of their regular jobs. be considered for more training when working in highly stressful



#### Recommendation 2 – Specialized Skills

- The City of Calgary would benefit from a better understanding of which specialized skill sets are crucial in long-term recovery.
- Proceeding with the development of a cross-corporation skills inventory that can be used during emergency response and recovery is recommended.





### Recommendation 3 — Special Project Support

- We recommend assigning a HR advisor to recovery with specific transitioning out of recovery work or other special projects. roles and responsibilities in supporting staff when joining or
- In addition, ensuring a seamless transfer following project completion would help with an easier transition for recovery



#### Recommendation 4 – External BC Planning

- Our review shows that municipal external business continuity we ensure our employees are capable and equipped to do so). standards) was better than its internal equivalent (e.g., how do (e.g., how do we get public service delivery back to acceptable
- Despite the implementation of a corporate business continuity and identify strategies to address it. varying levels of progress on this across different business units plan, officials identified a need for the City of Calgary to monitor



### Recommendation 5 — Vulnerable Populations

Given that many resources for Calgary's vulnerable populations assistance through regular channels, including their numbers, awareness about those citizens who lack the ability to request there is an ongoing need to increase pre-event situational are located in the downtown core which is in the flood plain, location, and specific needs.



#### Recommendation 6 — Spending Tracking

- Our interviews revealed an opportunity to improve the capacity grant programs. for tracking of spending, particularly early on during recovery, including the ability to maximize recovery from insurance and
- Reassessing disaster event processes to ensure proper Audit. documentation and accurate reporting to Council was a recommendation in the recent Flood Recovery Expenditure



### Recommendation 7 — Learn Lessons Learned

The City of Calgary would benefit from capitalizing on the future events. city staff remain trained and ready to act in recovery roles for recovery lessons learned and ensuring, just as in response, that



#### Conclusions

- In both response and recovery, our reviews indicate exceptional performance by City officials.
- This review shows the willingness of the ROC to identify and deal with outstanding challenges and recommendations despite the fact that it performed very well.
- In order to ensure future performance, there is an ongoing need to document and train on the basis of lessons learned.
- Act on recommendations but ensure that this does not overshadow the lessons learned.



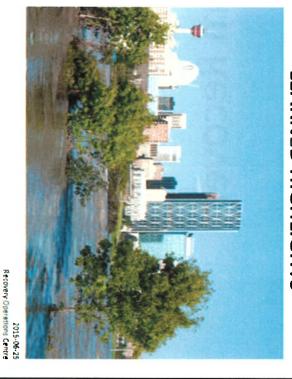
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Follow the team: @Resiliency\_CBoC

ROC conducted stakeholder debriefs at operational level



2013 FLOOD RECOVERY INTERNAL LESSONS LEARNED HIGHLIGHTS



#### GARY RECOVERS BUILDING FOR RESILIENCY

#### Application of Lesson Learned

- Provincial Long-Term Recovery Guidelines
- **ROC** providing CEMA with recovery and resource manual update information gathered to inform

#### BUILDING FOR RESILIENCY REGUVERS

#### **CEMA next steps:**

- Recovery Operations Centre Update Response and Resource Manual
- CEMA Annual Update State of Readiness — Spring 2016

#### BUILDING FOR RESILIENCY RECOVERS

### **ADMINISTRATION RECOMMENDATION(S)**

(Attachment 2) for information. Board of Canada The Road to Recovery: The That the Emergency Management Committee recommends that Council receive the 2013 City of Calgary and the 2013 Flood Highlights (Attachment 1) and the Conference Flood Recovery Internal Lessons Learned

**Back Up Slides** 

Conference Board of Canada	Actions Underway
Recommendations	
Municipal	Develop a strategy for monitoring individual     wellness and effectiveness for employees
employees with	assigned to recovery work.
2	
Hood recovery-	<ul> <li>HR to identify the position that will be</li> </ul>
related roles	assigned to ROC as part of its Business
need to be	Continuity planning.
considered for	•CEMA to update of the ROC Resource & Response
more <b>training</b>	

Conference Board of Canada	Actions Underway
Recommendations	
Develonment of a cross-	<ul> <li>Create an employee skills inventory</li> </ul>
	that encompasses the skills and
corporation skills	competencies required to prepare
inventory that can be	for, respond to and recover from
יוועכוונטו אַ נוומר כמון סכ	emergency situations.
used during emergency	
response and recovery	

Conference Board of Canada Recommendations	Actions Underway
Assign an <b>HR advisor</b> to	<ul> <li>Human Resources will</li> </ul>
recovery with specific roles	identify opportunities to
and responsibilities in	increase support to
supporting staff when	employees joining and
joining or transitioning out	transitioning out of recovery
of recovery work	work.

Conference Board of Canada Recommendations	Actions Underway
City of Calgary to	<ul> <li>Corporate skills inventory</li> </ul>
monitor varying	<ul> <li>Temporary Pop-Up Offices</li> </ul>
levels of progress	<ul> <li>mvDesktop Emergency</li> </ul>
on <b>internal</b>	7
business	Service
continuity plan	<ul> <li>Corporate Accommodation</li> </ul>
	Plan

Conference Board of Canada Recommendations	Actions Underway
Increase <b>pre-event</b>	<ul> <li>NGO liaison within the EOC</li> </ul>
situational awareness	
about those citizens	EPIC website
who lack the ability to	launched May 27 <sup>th</sup> 2015
request assistance	
through regular	
channels	

<ul> <li>Prequalify Restoration Contractors</li> </ul>	programs
<ul> <li>A Tip Sheet for Major Emergency</li> </ul>	maximize recovery from insurance and grant
claims created	including the ability to
<ul> <li>Process maps for insurance/DRP</li> </ul>	particularly early on
<ul> <li>Catastrophe Claims Management</li> <li>System (CCMS)</li> </ul>	tracking of spending,
Actions Underway	Conference Board of Canada Recommendations

Conference Board of Canada Recommendations	Actions Underway
Capitalizing on the	<ul> <li>CEMA will update of the</li> </ul>
recovery lessons	ROC Resource & Response
learned and ensuring,	Manual
just as in response,	5 5 1
that city staff <b>remain</b>	• Establishing Community of
<b>trained</b> and ready to	Practice meetings
act in recovery roles	<ul> <li>Various after-action</li> </ul>
for future events	reports/debriefs