



## **Emergency Management BC**

# Supply Chain Strategy Planning: Catastrophic Earthquake Response

UR+BC Lifeline Resilience – CI Dependencies April 17, 2018

Mary-Ellen Clark MSc. PLog, CMA, CPA Executive Director, Logistics



### **Outline**

- Background: traditional role of logistics in emergency management and compelling need for a paradigm shift
- Where are we now?
  - 1) 'Events' versus disasters
  - 2) Linkages and leveraging CI as a discipline
  - 3) Provincial Critical Supply Chain Strategy initiative
- Visualizing the future...



## **Background**



- Tradition "Logistics" in emergency management:
  - Military-driven doctrine
  - Reactive vs. proactive
  - Scope 'incident' site
  - Best practices' of DHS/FEMA?
- The paradigm shift
  - It's not about logistics...
  - Integrated, comprehensive, risk-based events planning



# **Background – Gaps Identified**



Key supporting supply chain functions identified in the B.C. Earthquake Immediate Response Plan:

?

# INVENTORY MANAGEMENT

B.C. Earthquake IRP: "Capabilities – Annex I"

### **TRANSPORTATION**

B.C. Earthquake IRP: "Multi-modal"

### **DISTRIBUTION**

B.C. Earthquake IRP: "Staging Areas"

?



# Supporting Supply Chain functions: BC Earthquake Planning: The Evolution



Agile, adaptive; responsive; surge capacity

# INVENTORY MANAGEMENT

B.C. Earthquake IRP: "Capabilities-based – Annex I"

**TRANSPORTATION** 

B.C. Earthquake IRP: "Multi-modal"

**DISTRIBUTION** 

B.C. Earthquake IRP: "Staging Areas"

**SUPPLY CHAIN STRATEGY** 

"Foundation"



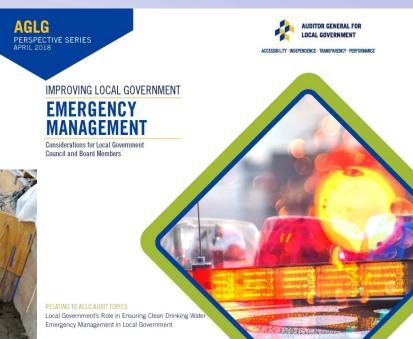
## **The Compelling Need**





By PETER JAMISON MAR 20, 2015 | 2:16 PM





# **Upstream & Downstream Effects: Supply Chains & Cl**

### **Direct Links to CI Sectors**













### Indirect Links to CI Sectors?







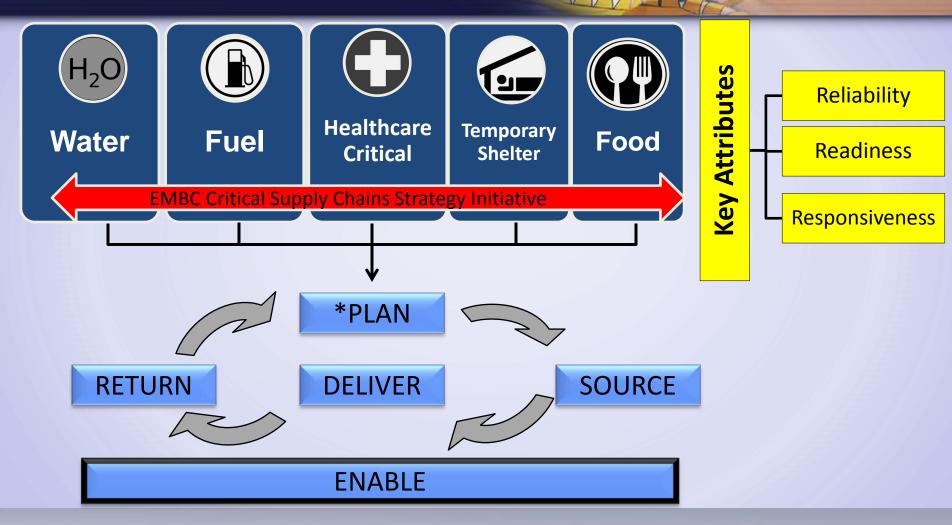






See "BC Earthquake Immediate Response Plan July 2015 pg 64

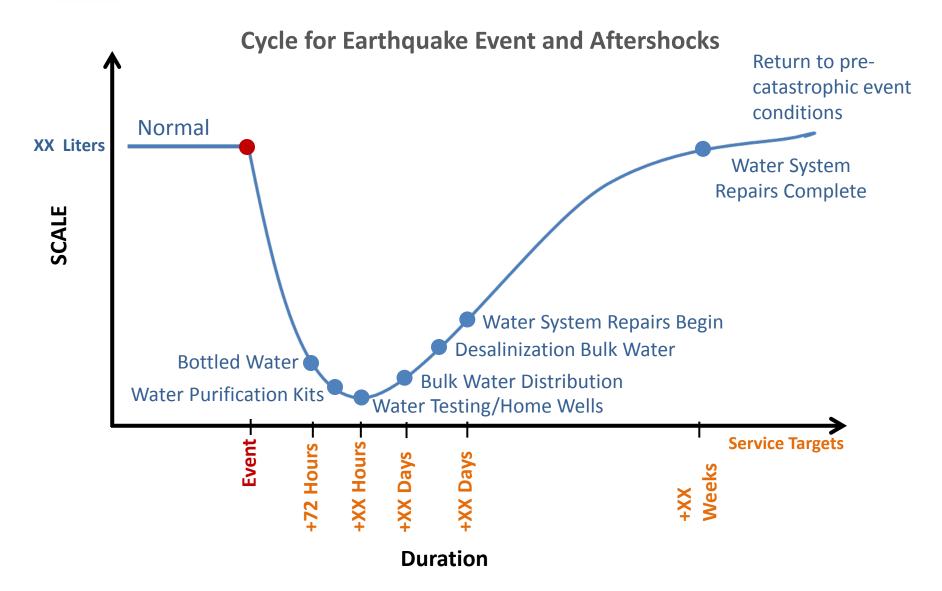
# Provincial Critical Supply Chains Strategy







## Water Supply Chain Demand Event Cycle

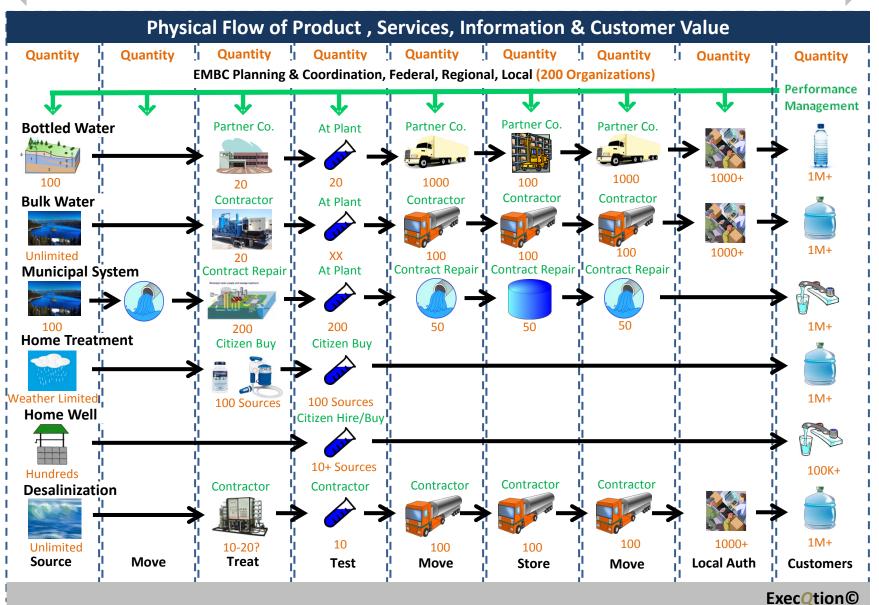


Content in this presentation is the property of: Emergency Management British Columbia



## **EMBC Water Supply Chain**

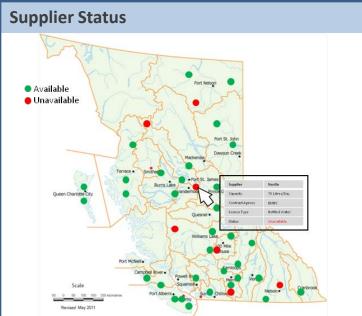
#### **End-to-End Supply Chain Enterprise**

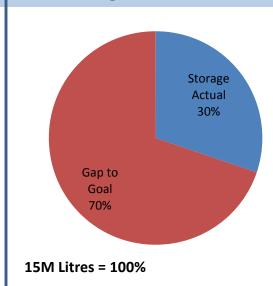


Content in this presentation is the property of: Emergency Management British Columbia

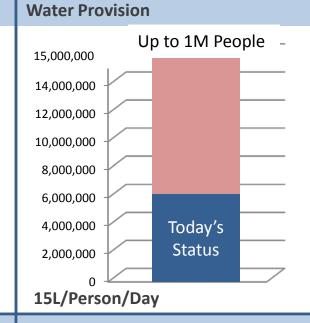
#### **Water Readiness Information Center**

#### (DRAFT Performance Measurement Data capture)





**Water Storage** 



**Desalinization Capacity** 

Unit	Capacity	Status
1	20KL	
2	200L	
3	10L	
4	80KL	
5	500L	
6	500L	
7	20KL	
8	10KL	

Mobile	Purification	Capacity

Location	Capacity	Status
1 Victoria	20KL	
2 Namaio	200L	
3 Vancouver	10L	
4 Richmond	80KL	
5 Kamloops	500L	
6 Merritt	500L	
7 P.G.	20KL	
8	10KL	

**Tablets Capacity** 



EMBC
Water Supply Chain
Governance Team



