



# CAUSE IV EXPERIMENT

St. Clair and Lambton Counties

April 2016



# What is the Canada-U.S. Enhanced Resiliency Experiment (CAUSE)?

The Canada-U.S. Enhanced Resiliency Experiment (CAUSE) is an ongoing program in support of President Obama's and Prime Minister Harper's Beyond the Border Action Plan. It is a series of experiments that test and evaluate technologies and processes that enable cross-border information sharing.



# Focus Areas

- Specific focus areas that CAUSE has explored include: coordination of local, state, provincial and national incident management and alerting systems across border; public safety broadband and deployable LTE; cross border request and acquisition of mutual aid; and using social media to enhance decision making in emergency management.



# CAUSE IV

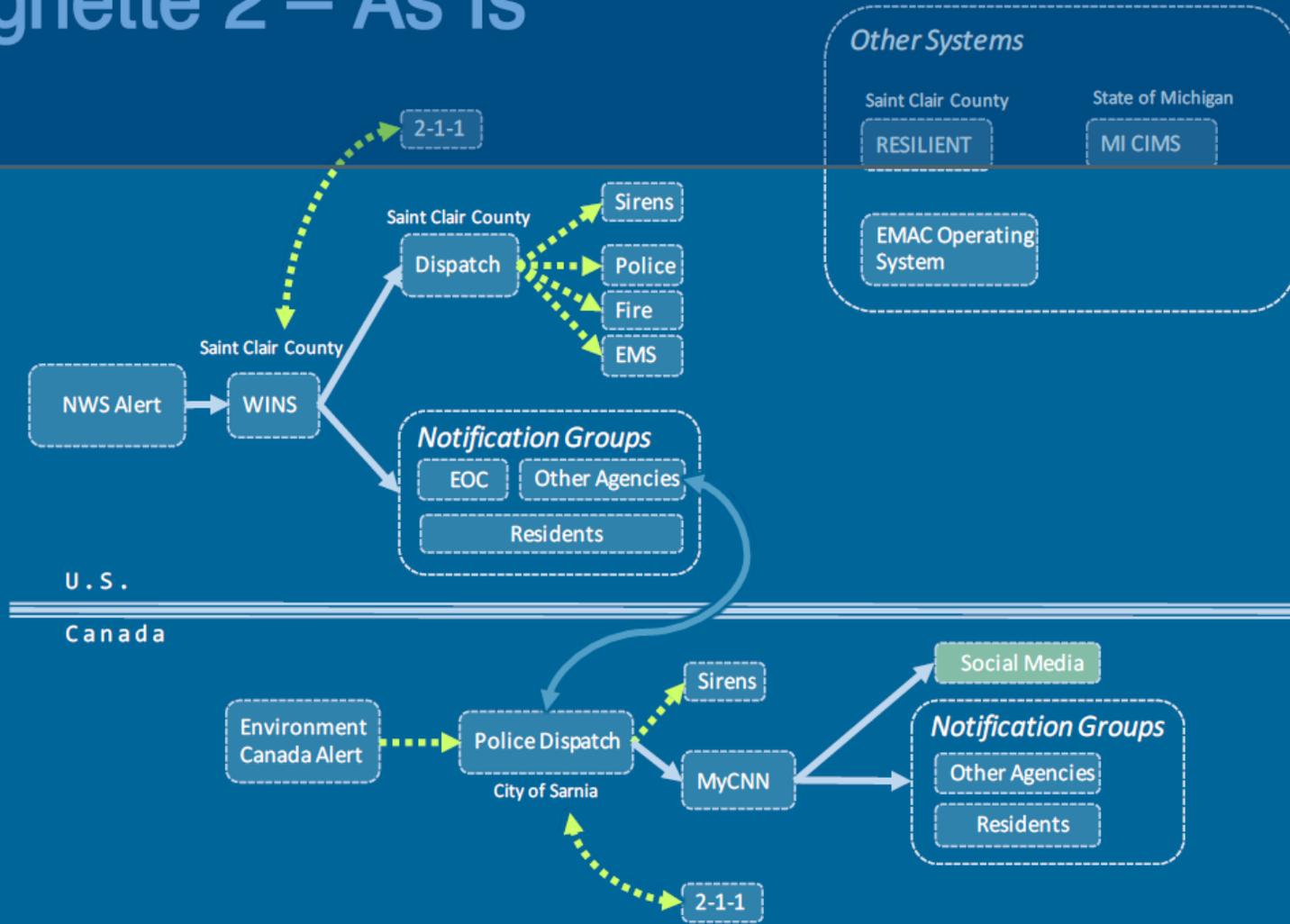
CAUSE IV acts as a catalyst for building relationships in support of the U.S.-Canadian Beyond the Border Action Plan. The objectives of the CAUSE series are to explore how to build a binational communications interoperability capability and to connect, test and demonstrate the emerging operational technologies available between the two countries.



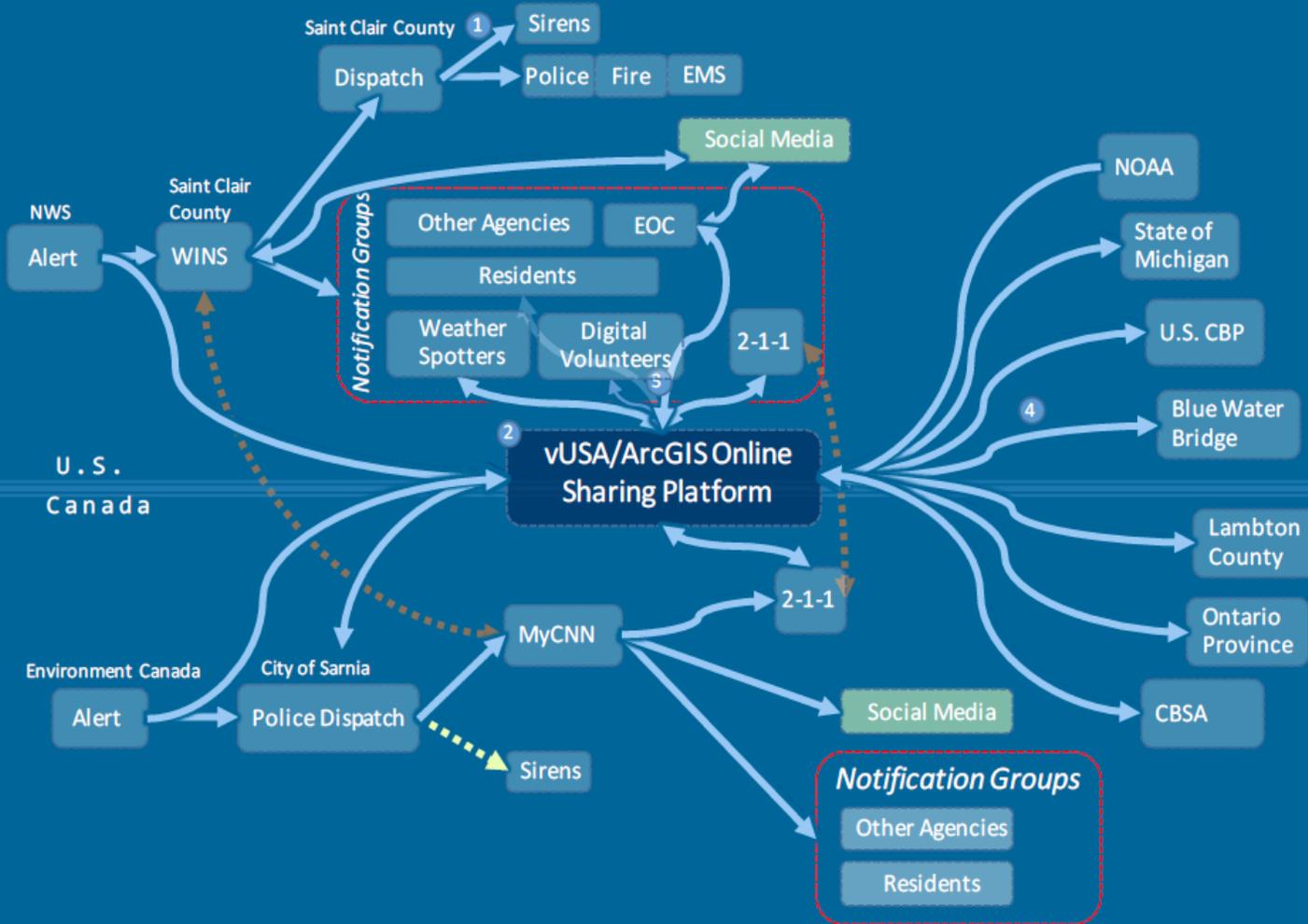
## CAUSE IV

- The CAUSE experiments enhance resilience in the border region by developing operational planning and processes and catalyzing dialogue to improve shared situational awareness and decision support for first responders and emergency managers on both sides of the border.

# Vignette 2 – As Is



# Vignette 2 – To Be



1 Outdoor warning sirens triggered automatically via NWS alert using geoprocessing services.

2 Operational public safety map which includes relevant information to establish baseline situational awareness for parties on both sides of the border – shared via vUSA /ArcGIS Online platform

3 Digital volunteers activated, team to process / gather information and provide actionable information products to the EOC. 2-1-1 activated, offload calls from 9-1-1; receive SA from EOC and others about incident and provide important social services during/after event. Share information on areas of need back to SA platform.

4 Multiple agencies on both sides of the border tap into shared Situational Awareness Platform to share and/or consume information about incident.



# Digital Volunteers

- Concept of Operations
- The Blue Water Region's is two tiered for the most effective utilization of resources.
- The first tier is utilized for smaller scale events within existing Emergency Management programs. Activation of local trained volunteers serving as the members of DVST would occur.
- The second tier is utilized for cross border incidents or a larger catastrophic event that overwhelms the local community and volunteer resources. The EOC will reach out to nationwide DVST programs to step in and assist the Emergency Operations Center.

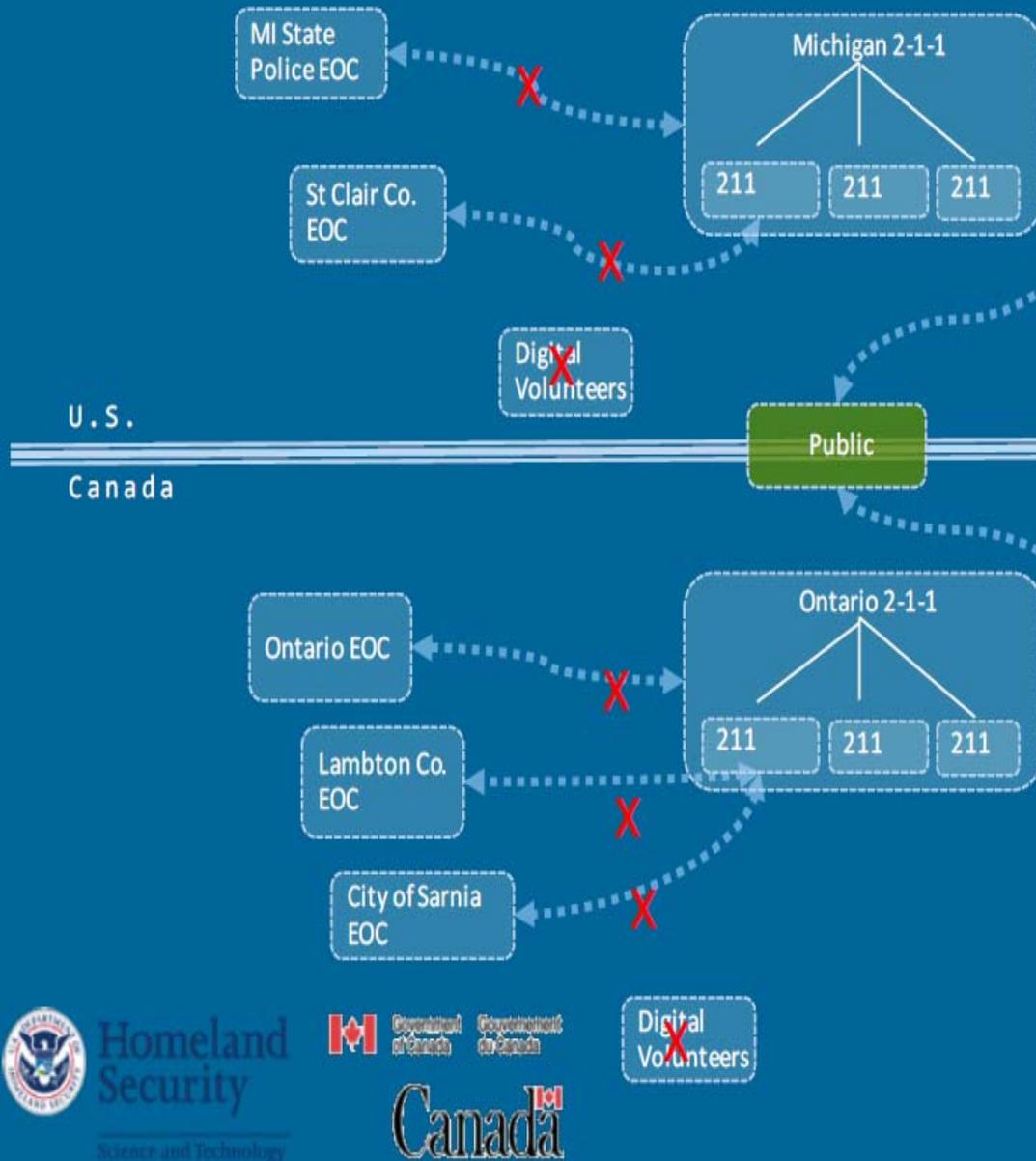


# Local Concept

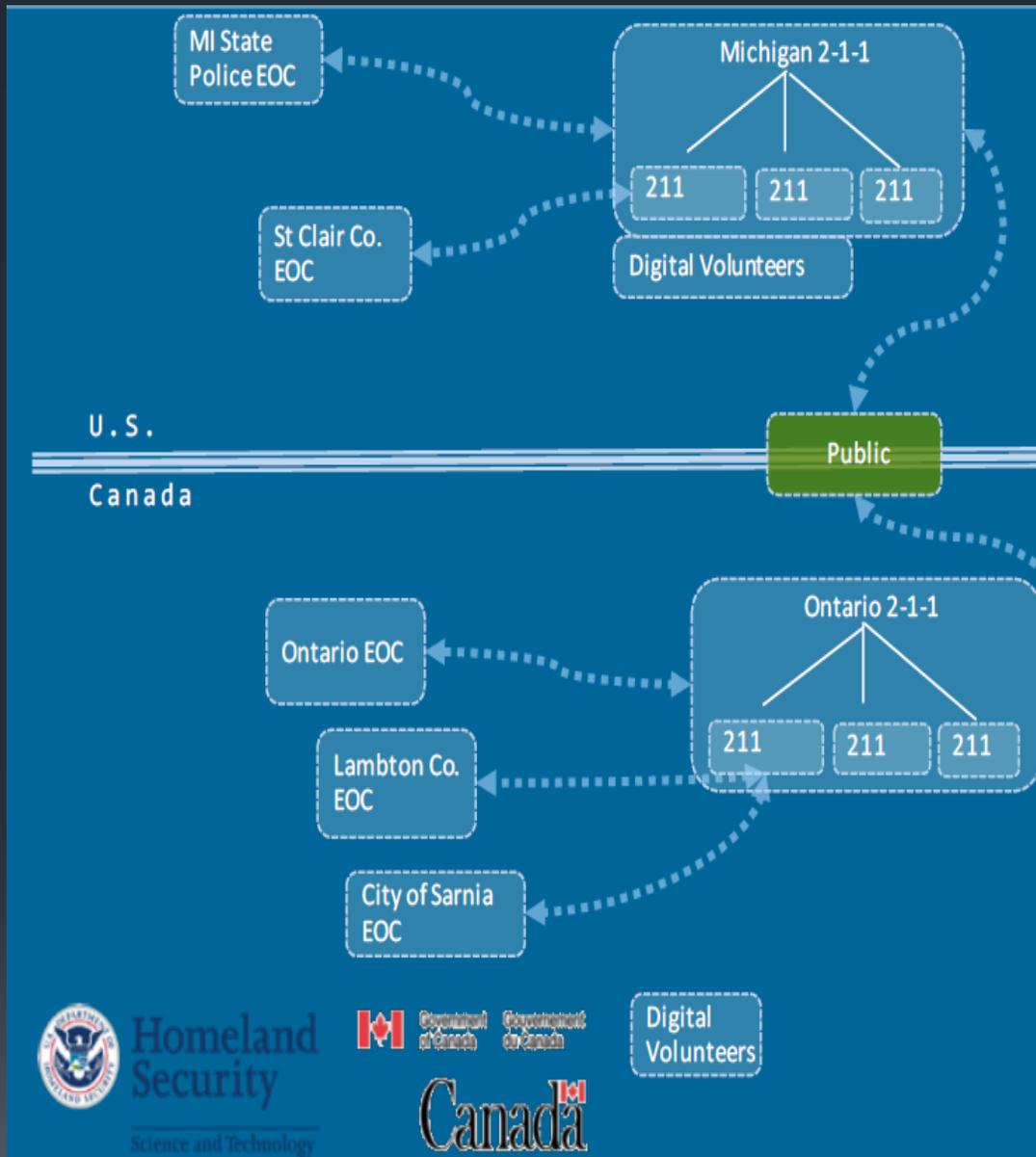
Several members from St. Clair County

Outside area members

- South Carolina
- Washington DC
- London Ontario



- DigiVol / 211 concept is not part of existing SOPs or ESF structure
- Limited access to 211 data via MI-211 Counts
- 211 call centers have limited access to situational awareness from state/province or local EOCs



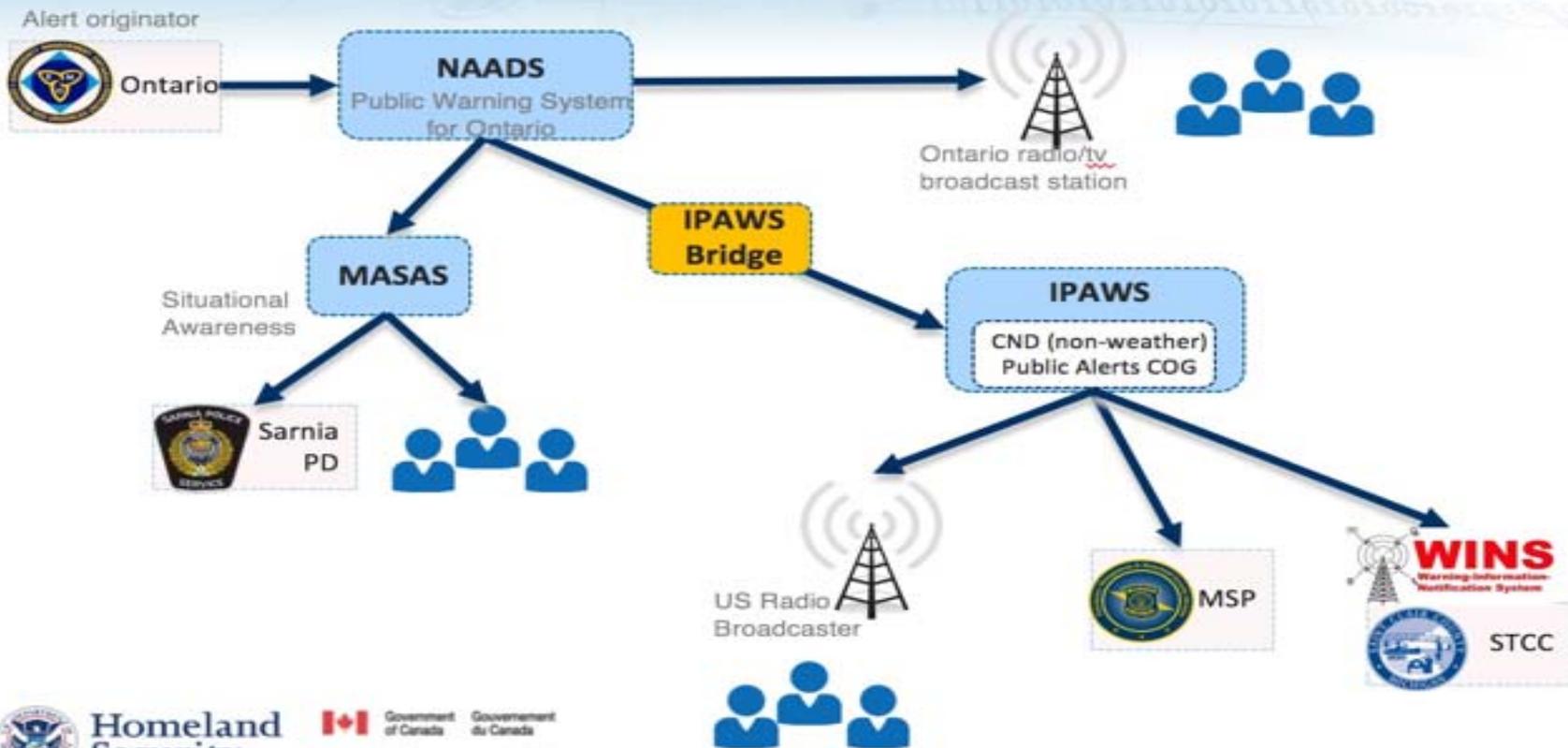
- DigiVol / 211 concept is part of existing SOPs and ESF structure
- Near real-time 211 data access via API
- 211 call centers have access to situational awareness from state/province or local EOCs
- True bidirectional program interoperability between EOCs and 211 call centers



# Alert and Warning

- Existing local Canadian notification system cannot activate broadcast media
- Existing Canadian notification system cannot utilize Environmental Canada weather warnings

# Alert/Warning





# Mutual Aid

We continue to struggle with local cross border mutual aid agreements.

Goal is to test our local warning and mutual aid request in relation to the formal State/Provincial/ Federal system.

# Framework for CND-U.S. Mutual Aid





# Questions

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