

# Exercise Trillium

Redefining Regional Emergency Exercises  
Through Real Integration



# Key Themes & Recommendations (2023–2025)

- **Regional Collaboration & Resource Awareness**
  - **Need:** Stronger coordination among counties and agencies.
  - **Action:** Develop a **regional resource directory** and **inter-agency contact list** to improve awareness of local support services and neighboring capabilities.
- **Communication Mechanisms**
  - **Need:** Multiple, redundant communication channels.
  - **Action:** Implement and test **multi-platform communication systems** (e.g., radio, satellite, secure messaging apps) and create **regional communication SOPs**.
- **Pre-Planning & Contingency Alignment**
  - **Need:** Avoid duplication and ensure unified response.
  - **Action:** Create **joint contingency plans** and conduct **tabletop exercises** to test coordination and identify overlaps.
- **Joint/Regional EOC Thresholds**
  - **Need:** Clear criteria for activating a regional EOC.
  - **Action:** Define **activation thresholds** and **decision-making protocols** for joint EOC operations, including leadership structure and resource allocation.
- **Mutual Aid Agreements**
  - **Need:** Deeper understanding and application.
  - **Action:** Provide **training sessions** and **scenario-based workshops** on Mutual Aid Agreements, including legal, logistical, and operational aspects.



Ex Trillium Venture 2025

“Combined Response Rehearsal”  
April 25<sup>th</sup>, 2025, Tabletop Exercise

# Overall Goals

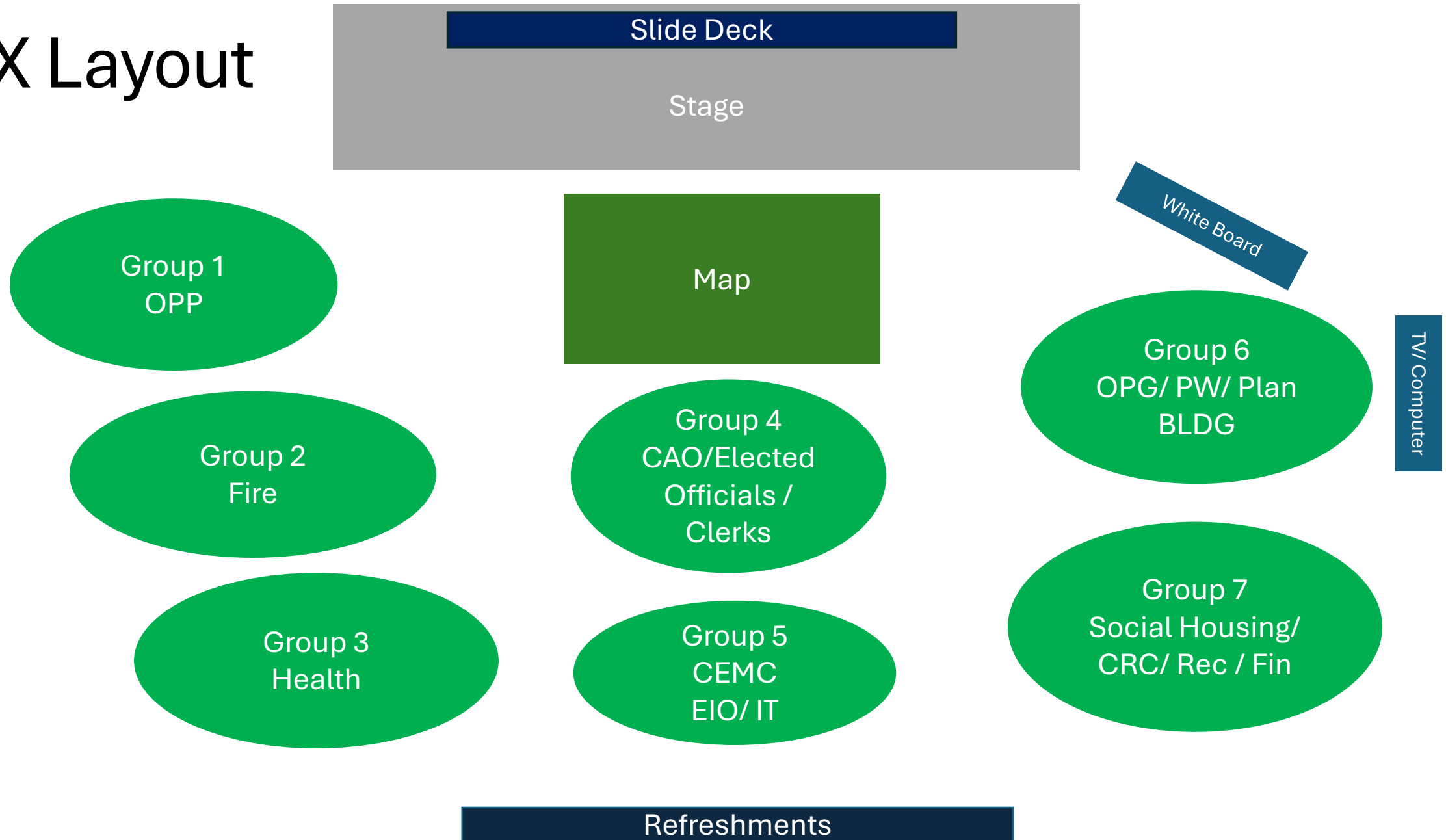
## Intent of the Exercise:

- **Deliberate Exercise of Municipal and Regional Response:**  
The goal is to test and strengthen the response to a catastrophic scenario that cannot be solved by any agency or level of government alone.
- **Identification and Mitigation of Friction Points:**  
Identify challenges and obstacles early in the process to ensure that critical services and lives are safeguarded, and future consequence management is properly planned.
- **Expose Planning Assumptions and Response Gaps:**  
Through this exercise, planning assumptions will be tested, gaps in the current response plan will be identified, and areas for improvement will be highlighted.
- **Strengthen Mutual Assistance and Support:**  
The exercise will help refine coordination and support strategies between agencies, ensuring seamless collaboration during future emergencies.

# Agency Representation

- Canadian Armed Forces
  - Canadian Coast Guard
  - Emergency Management Ontario
  - St. Lawrence Parks Commission
  - OPP
  - City of Cornwall Police
  - EMS
  - Eastern Ontario Health Unit
  - Glengarry Memorial District Hospital
  - Winchester District Hospital
  - Cornwall Community Hospital
  - Raisin Region Conservation Authority
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- Canadian Red Cross
  - Amateur Radio Emergency Services
  - Ontario Power Generation
  - Sauvetage Bénévole Outaouais – Ottawa Volunteer Search and Rescue
  - City of Cornwall/SDG Housing
  - City of Cornwall
  - United Counties of Stormont, Dundas and Glengarry
  - Township of South Glengarry
  - Township of North Stormont
  - Township of South Stormont

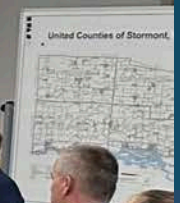
# TTX Layout





**Agencies Involved and Their Roles**

Agency	Role
United Counties of Stormont	Overall Strategic Leadership
Stormont Executive	Policy Development
Stormont Ministers	Policy Implementation
Stormont Secretaries	Policy Implementation
Stormont Departments	Policy Implementation
Stormont Committees	Policy Implementation
Stormont Advisory Committees	Policy Implementation
Stormont Working Groups	Policy Implementation
Stormont Task Forces	Policy Implementation
Stormont Panels	Policy Implementation
Stormont Committees of Enquiry	Policy Implementation
Stormont Commissions of Enquiry	Policy Implementation
Stormont Tribunals	Policy Implementation
Stormont Courts	Policy Implementation
Stormont Tribunals of Enquiry	Policy Implementation
Stormont Committees of Investigation	Policy Implementation
Stormont Committees of Enquiry	Policy Implementation
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Stormont Courts	Policy Implementation
Stormont Tribunals of Enquiry	Policy Implementation
Stormont Committees of Investigation	Policy Implementation



**The Counties  
SDG**

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SDG**

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SDG**

















# 2025 Observations

## **Strengths**

- Level of technical expertise within each core group
- Willingness to collaborate/collaborative solutioning
- Ability to access and mobilize available resources
- Opportunity to learn about response mechanism in place for federal, provincial and municipal governments

## **Opportunity for Improvement**

- Interagency communication protocols
- Consistency in regional public communications
- Personnel shortages and the ability to receive and mobilize volunteers
- Providing support to many displaced persons for up to 96hrs duration
- Psychological and social support as response continues
- Current lack of protocol/contingency plan for a unified EOC for largescale responses



Ex TRILLIUM RESPONSE 2026

# The Process

- HIRA Discussion
- Partner Engagement
- Core Planning Team
- TTX Roadshow



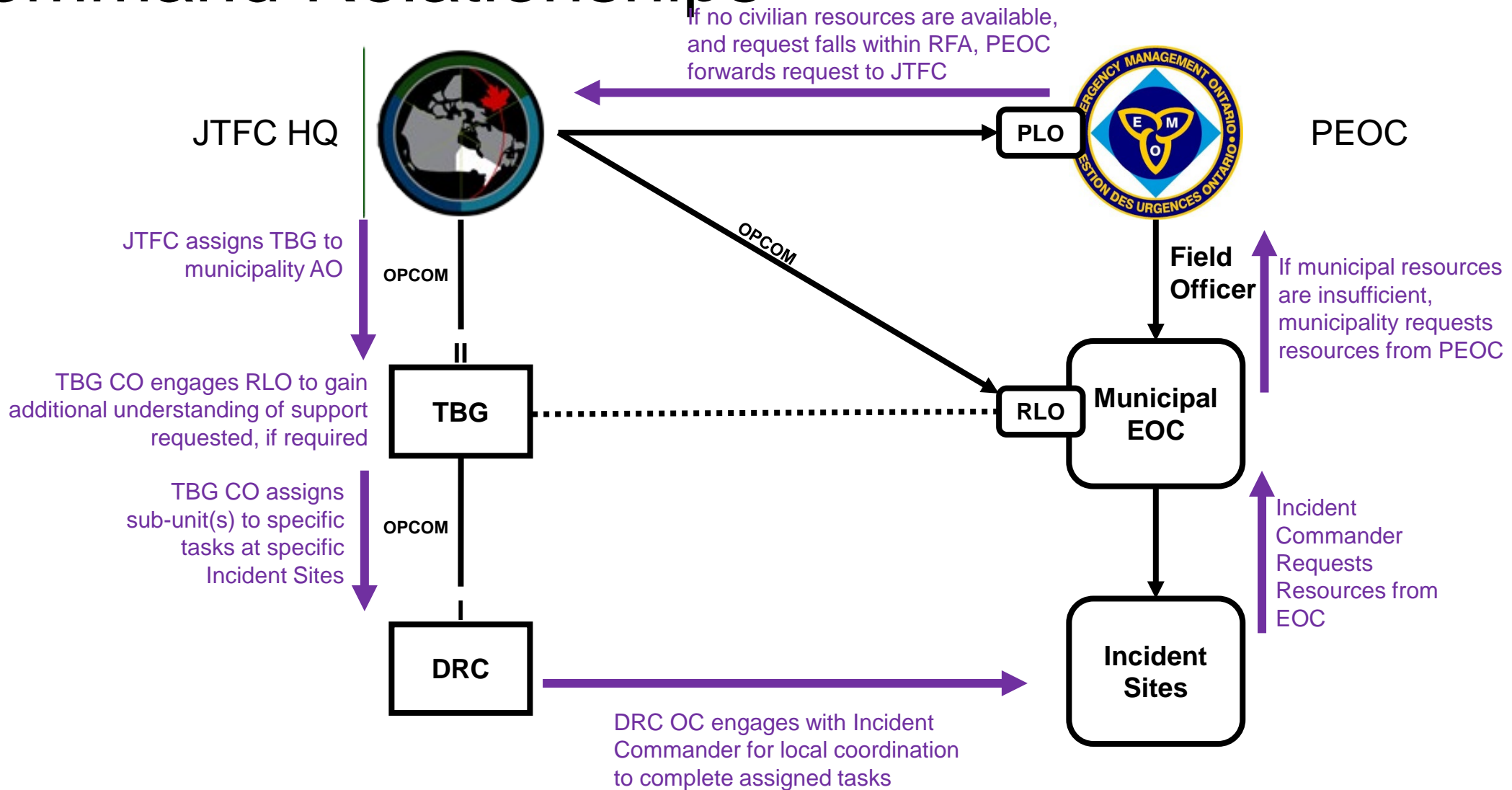
# General Scenario 2026

This scenario presents a complex and high-risk emergency involving:

- **A province-wide snowstorm** – causing hazardous travel conditions, power outages, and limited accessibility.
- **A cargo train derailment involving dangerous goods** – posing risks of chemical spills, explosions, or environmental contamination.
- This type of scenario is ideal for testing **regional coordination and emergency response capabilities**.

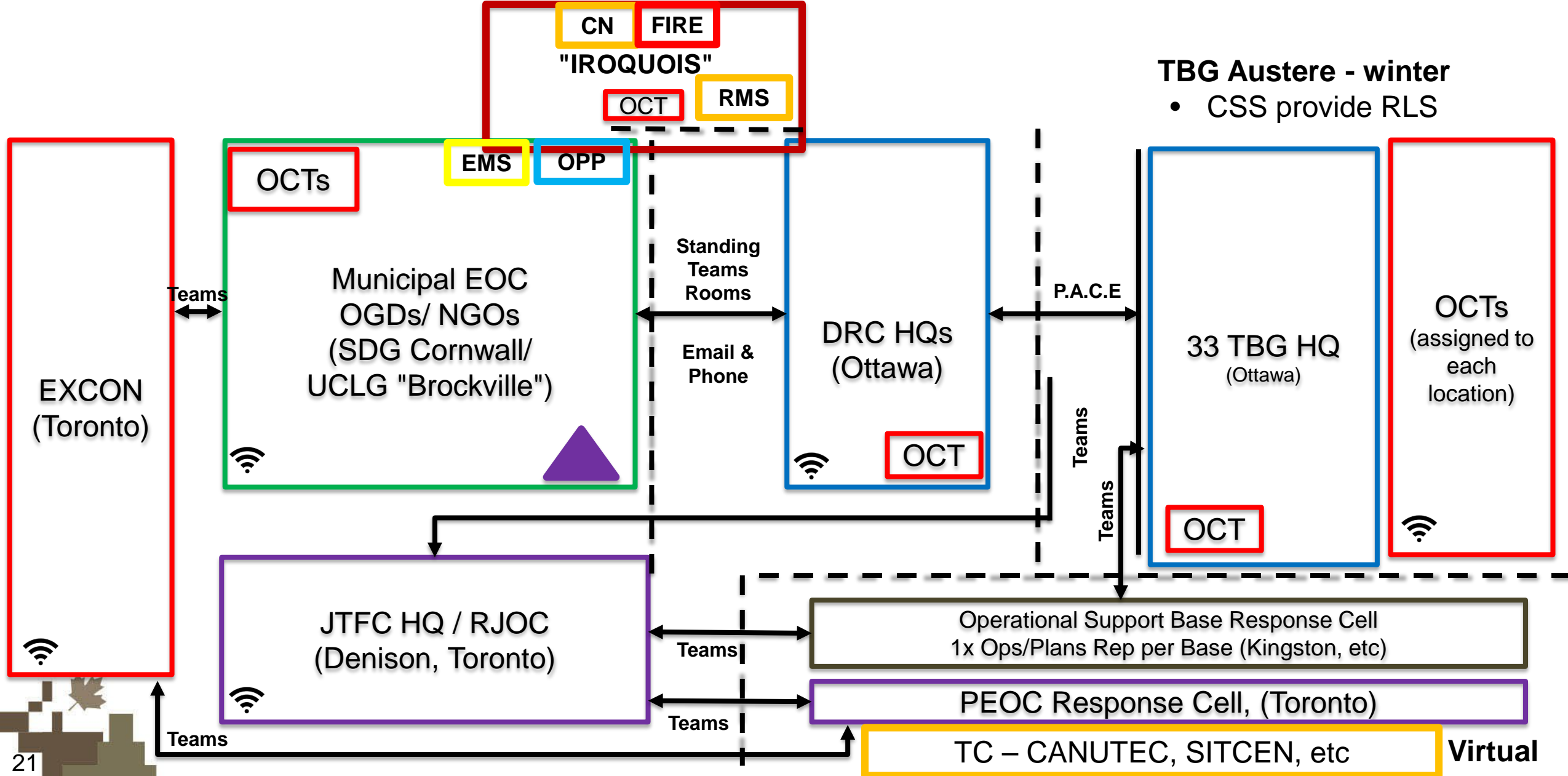


# JTFC Liaison Structure and Command Relationships



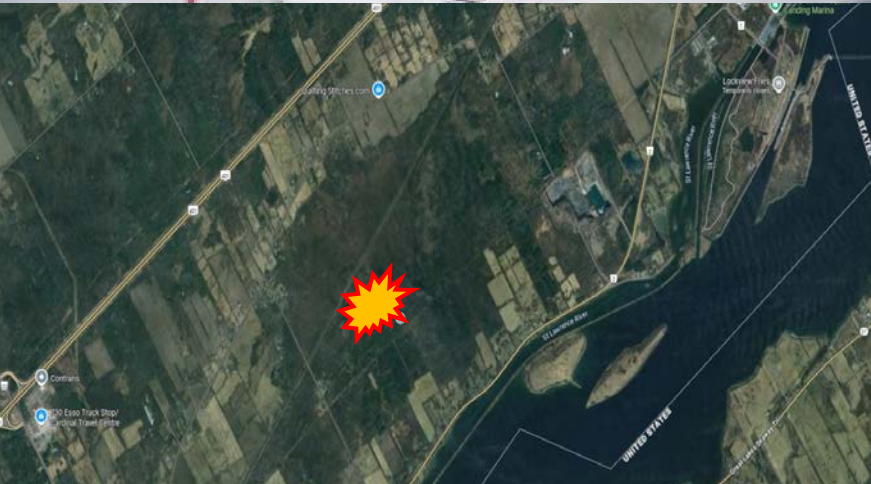


# Ex TR Structure / Layout



# Command Post Exercise – Sets & Reps

- Five shifts, four-hour duration
- Teams channel
- Supplemental information package
- Facilitator/controller led shift briefing
- Shift changeover briefing
- Operational cycles
- Real-time requests and decision making



**Sunday, 1 Feb 1300:** CAF DRC DECON line established

**Sunday, 1 Feb 1000:** Municipal evacuees hesitant to return due to media claims regarding air quality

**Saturday, 31 Jan by 2000hrs:** Municipal Evac Centre to be sustained overnight

**Sat, 31 Jan 1900hrs:** Pool fire is completely out/discussions on reducing SIP/evac distances commence

**Saturday, 31 Jan by 1700hrs:** Fire has subdued, and response operations resume. Ongoing poor weather conditions lead to 401 accident. Detour routes and emergency response resources strained.

**Saturday, 31 Jan by 1400hrs:** Evacuation radius & orders need to be expanded, styrene product released intermittently 1.5K affected

**Sat, 31 Jan 11- noon:** significant smoke observed, fires impacting CN cars #10/11

**Sat, 31 Jan 10-12:** snow clearing required on tracks and staging area priority for DRCs, drone surveillance impacted by heavy snow

**Sat, 31 Jan 0900 am:** Need for assistance with clearing a road through field, bog, forest to derailment site. TBG CO ordered to bring 4th Div DECON line from CFB Pet for FORPRO, concerned of 2nd/ 3rd effects

**Sat, 31 Jan 0800 am:** Some heavy equipment arrived onsite overnight, DRCs (350 soldiers) around Iroquois to sp cordon & access/ routes,

**Fri, 30 Jan:** SDG/ City Fire invoke MAG

**Fri, 30 Jan 1800-2200hrs:** TBG setting up austere TOC..... **CN derails ice jacking – CANUTEC/ SITCEN, unified ICP in Iroquois, RFA/ RFI pivot for CAF sp to CONPLAN RUBICON, Shelter in Place and 1km radius evacuation via Alert Ready, cordon ongoing**

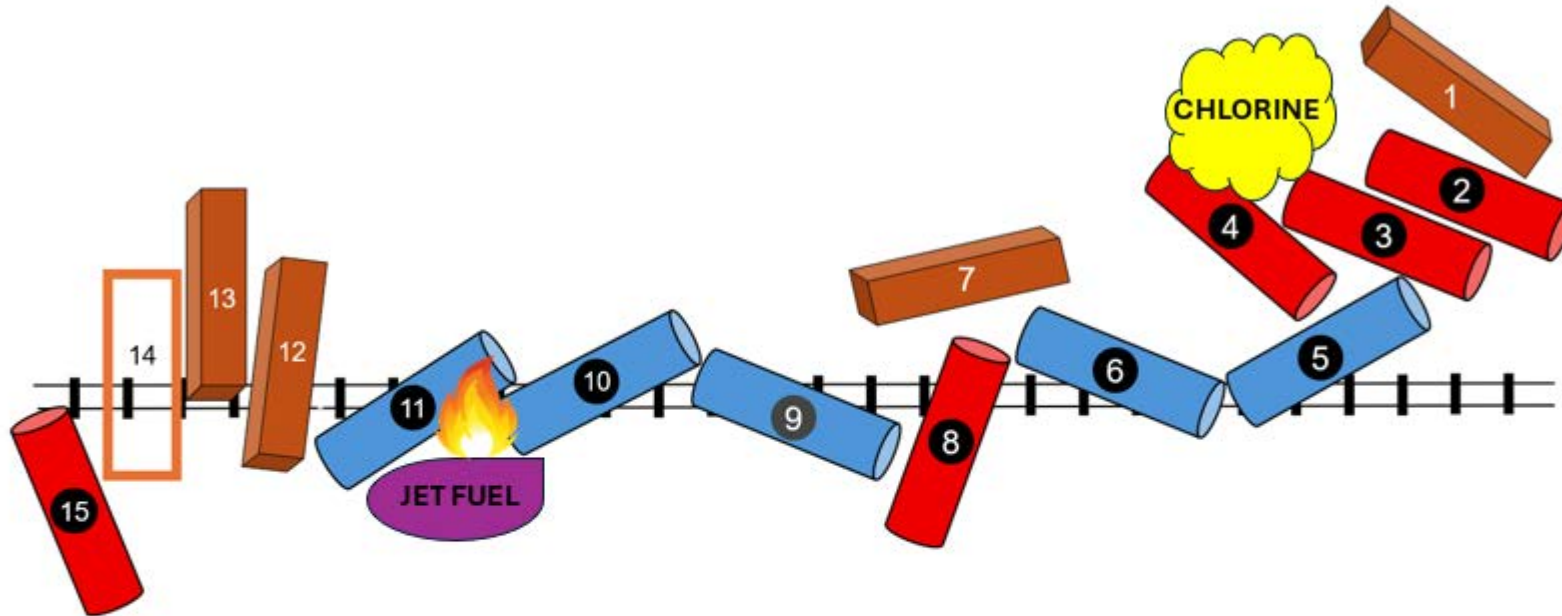
**Thurs, 29 Jan:** CAF for CONPLAN LENTUS, TBG "road move commences", **weather improves...**

**Wed, 28 Jan:** RFAs approved CAF for CONPLAN LENTUS sp, **SDG adopts unified EOC, invoking MAG for EOC staffing – JTF-C Employment Order Issued**

**Tues, 27 Jan:** SDG/ UCLG overwhelmed, both have RFAs up, PEOC says resources are spread thin across ONTARIO 401 corridor

**Sunday / Monday, 25/26 Jan:** Province wide winter storm (1998), JTF-C Wng O Issued

# ERAP/ CN TDG derailment config



PRESSURE CAR



GENERAL SERVICE



BOX CAR




FLAT CAR



**Derailment provided by Transport Canada and CNR dangerous goods and remedial measures specialists.**

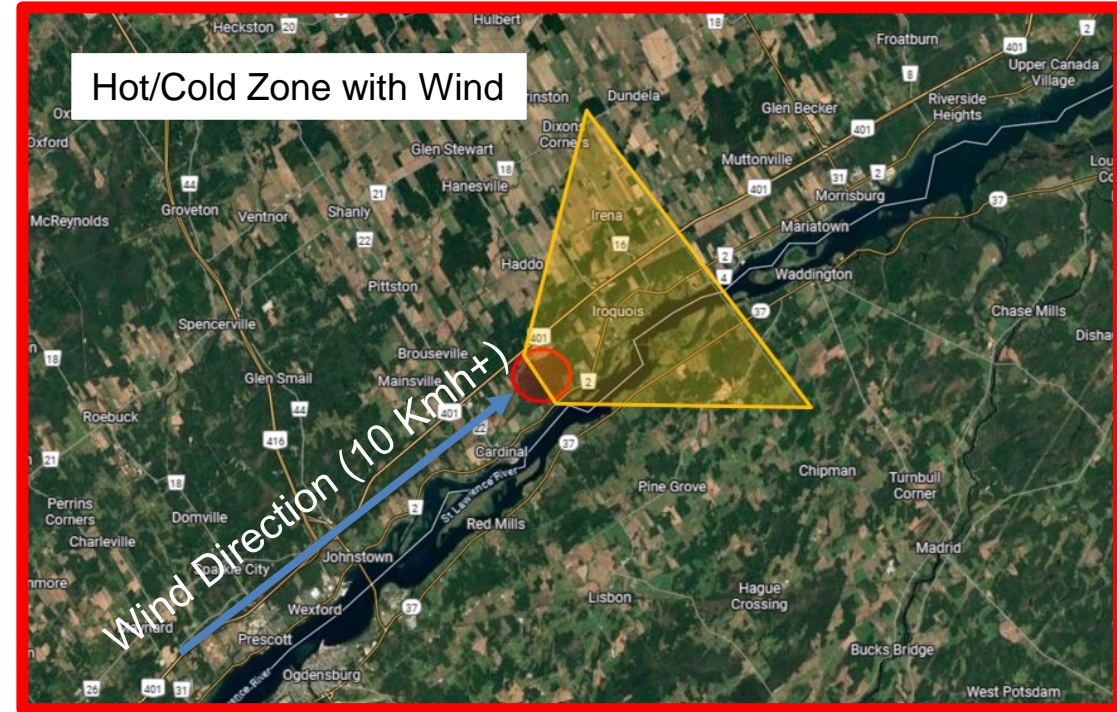
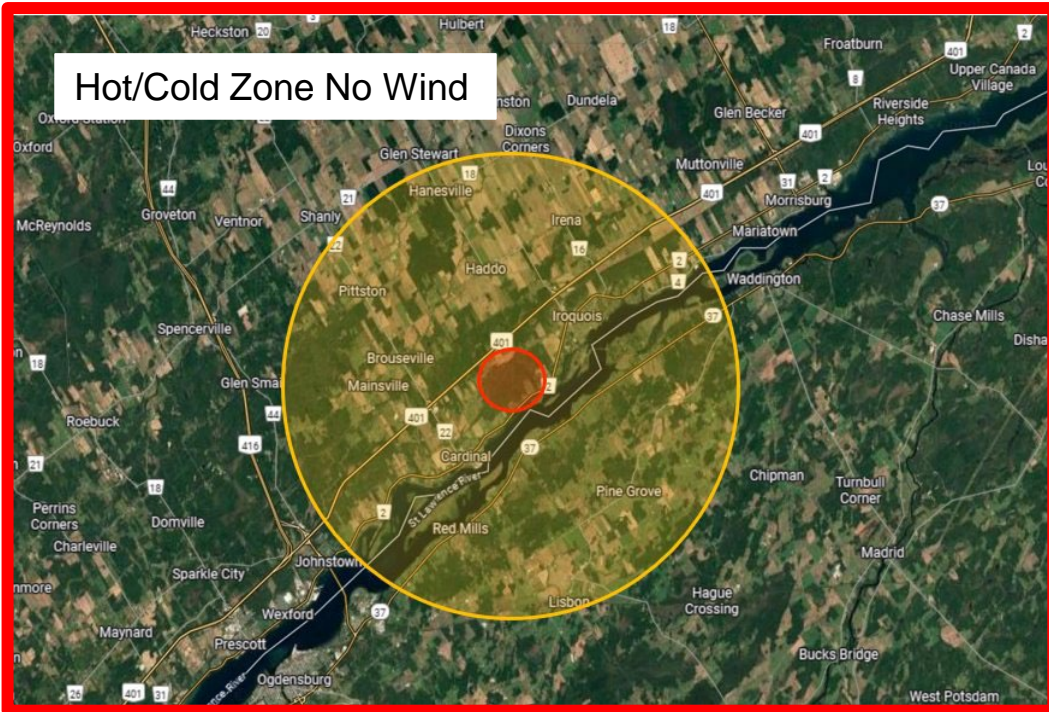
**Based on information from PD 36 reports to municipal partners outlining dangerous goods transported through the SDG Counties via rail in 2024-2025.**

# TDG Load Based on PD 36 Municipal Reports

		Derailment assessment					
Line	Car ID	Pressure or General service	# UN	DG Class	DG Name	Load or residue	Leaks
1	TILX 372678	BOX CAR	N/A	N/A	MIX LOAD	LOAD	NO
2	TILX 367483	PRESSURE	1075	2.1	LPG	LOAD	NO
3	CBTX 182736	PRSSURE	1075	2.1	LPG	LOAD	NO
4	PROX 478392	PRESSURE	1017	2.3	CHLORINE	LOAD	YES
5	TILX 3749024	GENERAL SERVICE	1202	3	DIESEL	LOAD	NO
6	CBTX 839287	GENERAL SERVICE	1830	8	SULPHURIC ACID	LOAD	NO
7	MNTX 3567	BOX CAR	N/A	N/A	MIX LOAD	LOAD	NO
8	CTCX 45658	PRESSURE	1005	2.3	ANHYDROUS AMMONIA	LOAD	NO
9	GATX 129876	GENERAL SERVICE	1863	3	JET FUEL	RESIDUE	NO
10	GATX 127856	GENERAL SERVICE	1863	3	JET FUEL	LOAD	NO
11	GATX 114478	GENERAL SERVICE	2055	3	STYRENE MONOMER, STABILIZED	LOAD	YES
12	SHPX 334783	BOX CAR	N/A	N/A	SAND	LOAD	NO
13	SHPX 456893	BOX CAR	N/A	N/A	SAND	LOAD	NO
14	MNTX 12326	FLAT CAR	N/A	N/A	LUMBER	LOAD	YES
15	TILX 238976	PRESSURE	1075	2.1	LPG	RESIDUE	NO



# ERG minimum Hot & warm zones chlorine release, **no fire**, nighttime model



	Isolate	Protect					
		Day (in Km)			Night (in Km)		
		Meter (radius)	Low Wind (- 10Kmh)	Moderate Wind (10-10Kmh)	High Wind (20 Km h +)	Low Wind (- 10Kmh)	Moderate Wind (10-10Kmh)
Rail Train Car (80 000 kg)	1000	9.6	6.3	5.1	11	8.9	6.5



# Command Post Exercise Participants

- Red Cross
  - Emergency Management Ontario
  - OPP
  - Eastern Ontario Health Unit
  - Cornwall Community Hospital
  - Winchester District Community Hospital
  - Transport Canada
  - SDG-Cornwall Paramedics
  - Canadian Armed Forces
  - Township of North Dundas
  - Municipality of South Dundas
- 
- Township of South Stormont
  - Township of North Stormont
  - Township of South Glengarry
  - Township of North Glengarry
  - United Counties of Stormont Dundas and Glengarry
  - City of Cornwall
  - City of Cornwall Housing Services (represent SDG through shared services agreement)
  - United Counties of Leeds and Grenville (observers)
  - Township of Edwardsburgh-Cardinal (Observers)



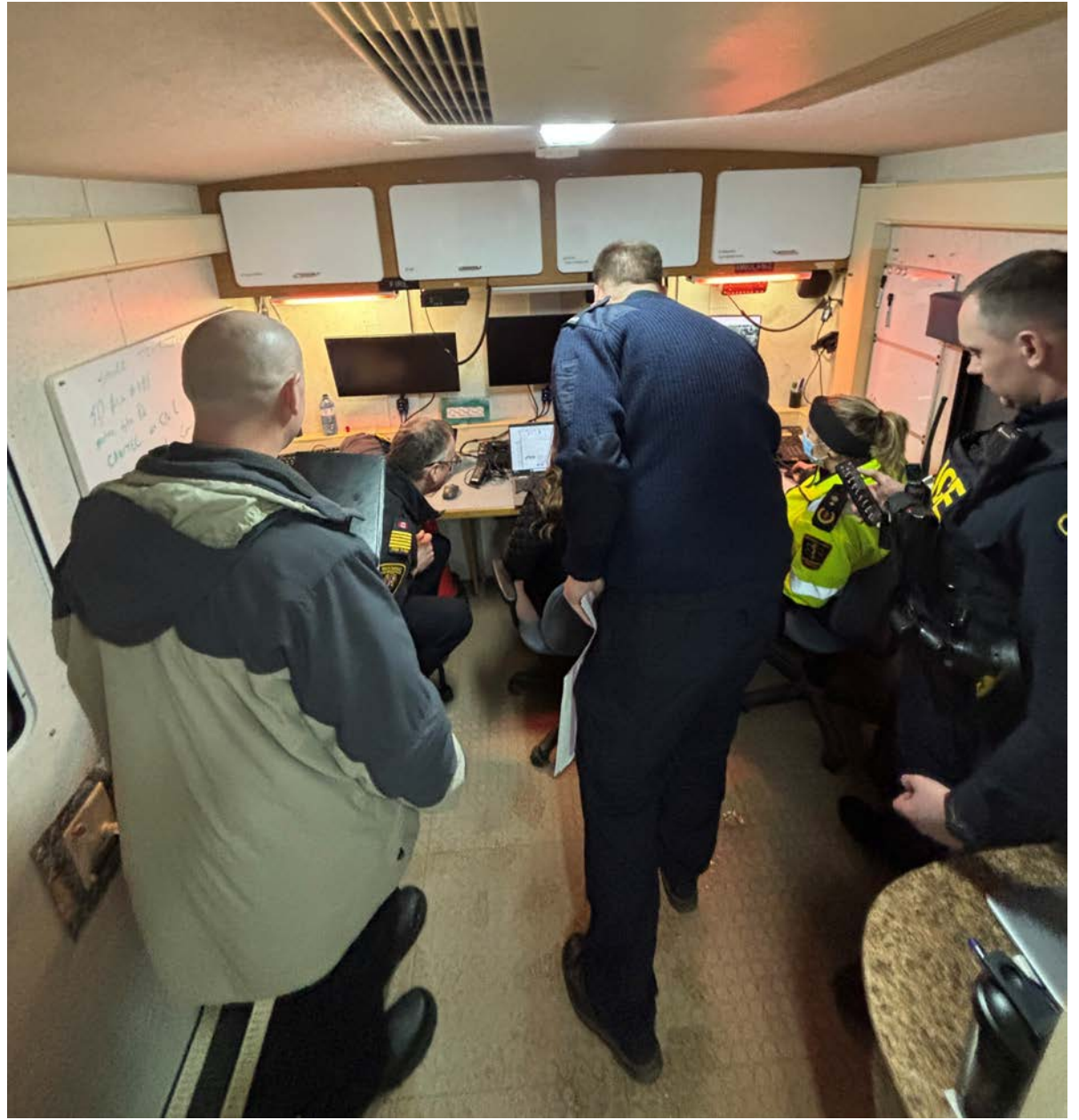








Press Conference - Highlight



Commander of Joint  
Task Force-Central  
(Toronto) Brigadier-  
General Landry

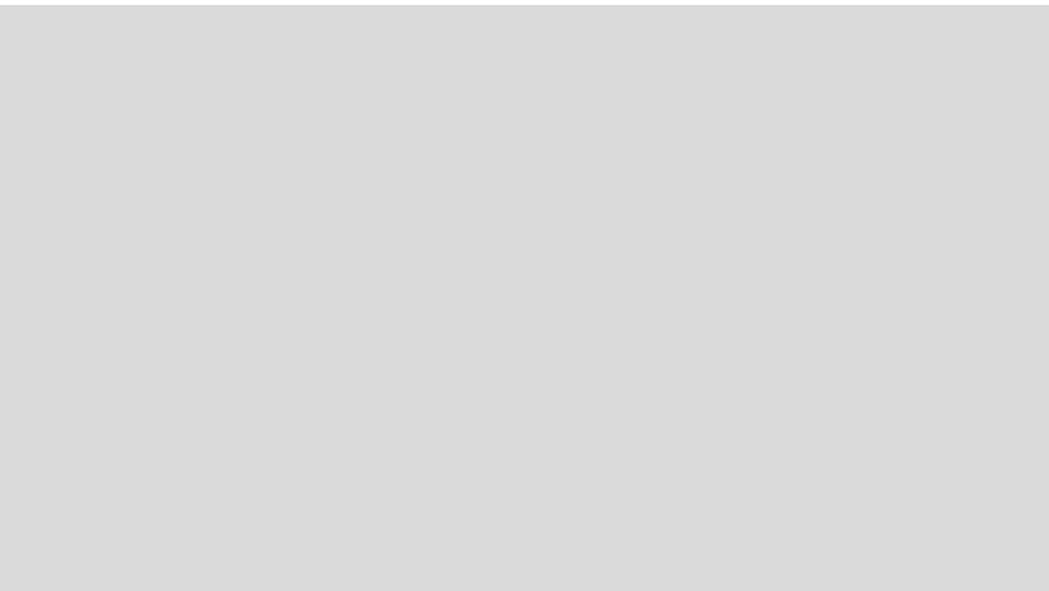


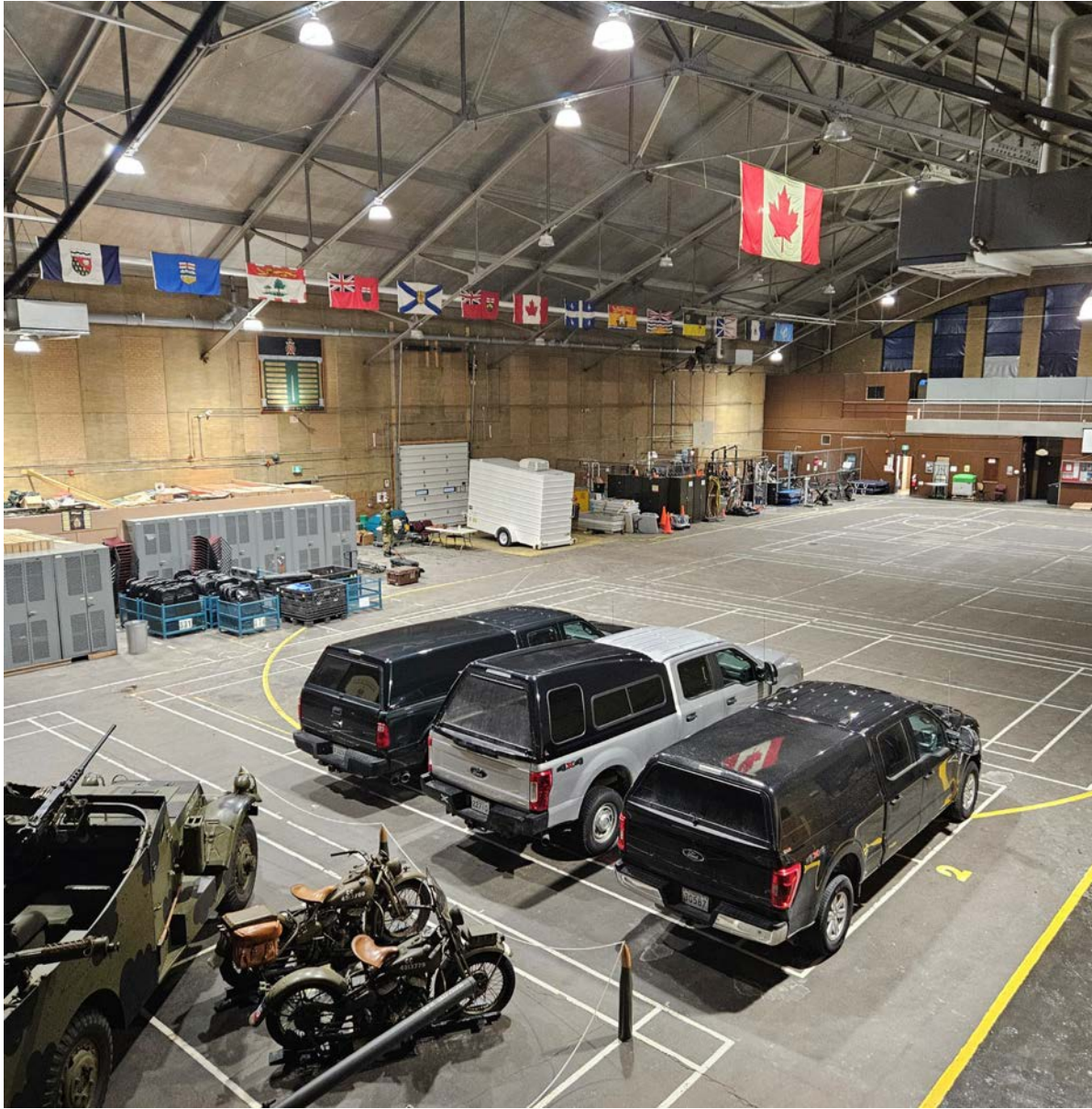












# Preliminary Take-Aways from Participants

- Increased Knowledge of Support Agency Response Mechanisms
- Regional EOC Model
- Expanding EOC Expertise
- Development of Regional Resource Directory
- Regional Contingency Plans
- Regional EOC Activation
- Council Term Event



d: Evacuation zone Orange: Evacuated roads Traffic Control from OPP

# United Counties of Stormont, Dundas & Glengarry



## Positive Outcomes

- Mutual Aid and Subject Matter Expert Integration
- EOC and CPX Training
- IMS and Technology Training
- OPP Incident Command Development
- UAS / Drone Capability Awareness
- Leadership and Public Communications



# Pivot

- OPP Drone Operators
- ICP asset recalled



Thank You