



**Huoltovarmuuskeskus**  
Försörjningsberedskapscentralen  
National Emergency Supply Agency

# Using private sector capacities to meet emergency supply requirements

OECD High Level Risk Forum, February 2, 2024

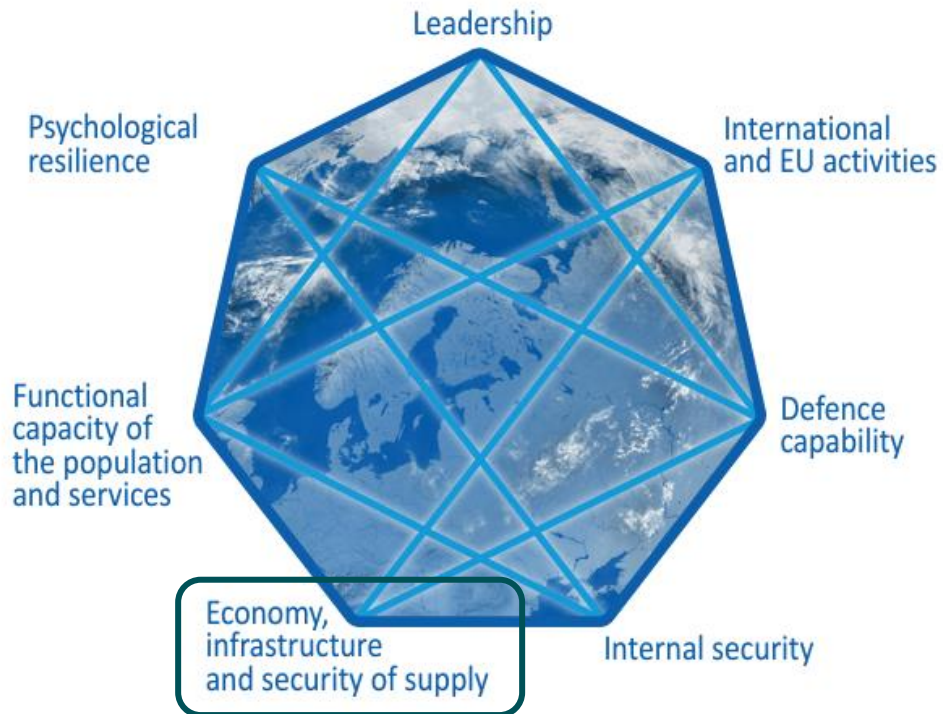
Axel Hagelstam  
Director, Research and Analysis  
NESA



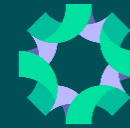
## What is security of supply?

# Security of supply connects to the economy

### The functions vital for society



Ministry of Economic Affairs  
and Employment of Finland



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### Tasks

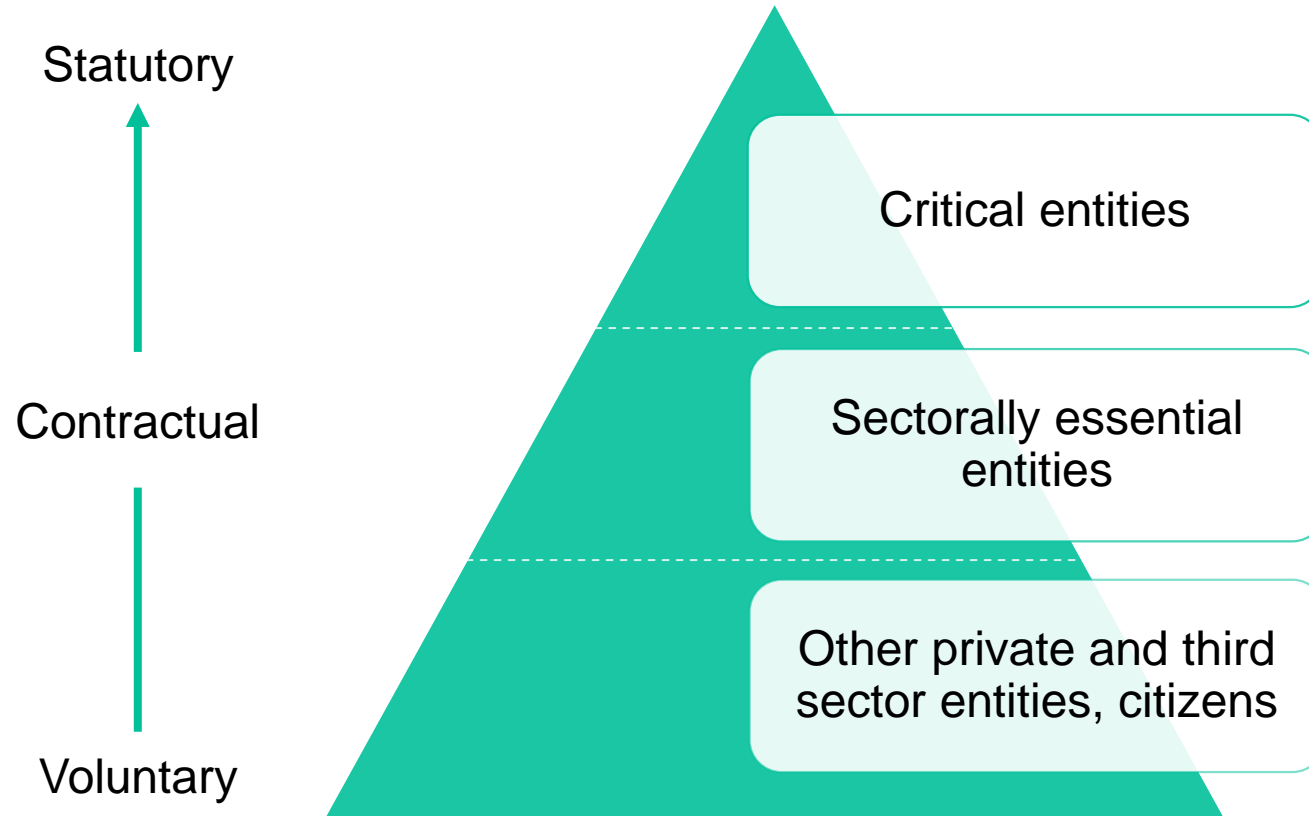
- Ensure the subsistence of the population
- Secure functions and systems critical for national defence
- Secure functions and systems critical for the economy

### Key strengths

- Own balance sheet
- Strategic stockpiles
- Public-private network
- Broad expertise



# Levels of criticality



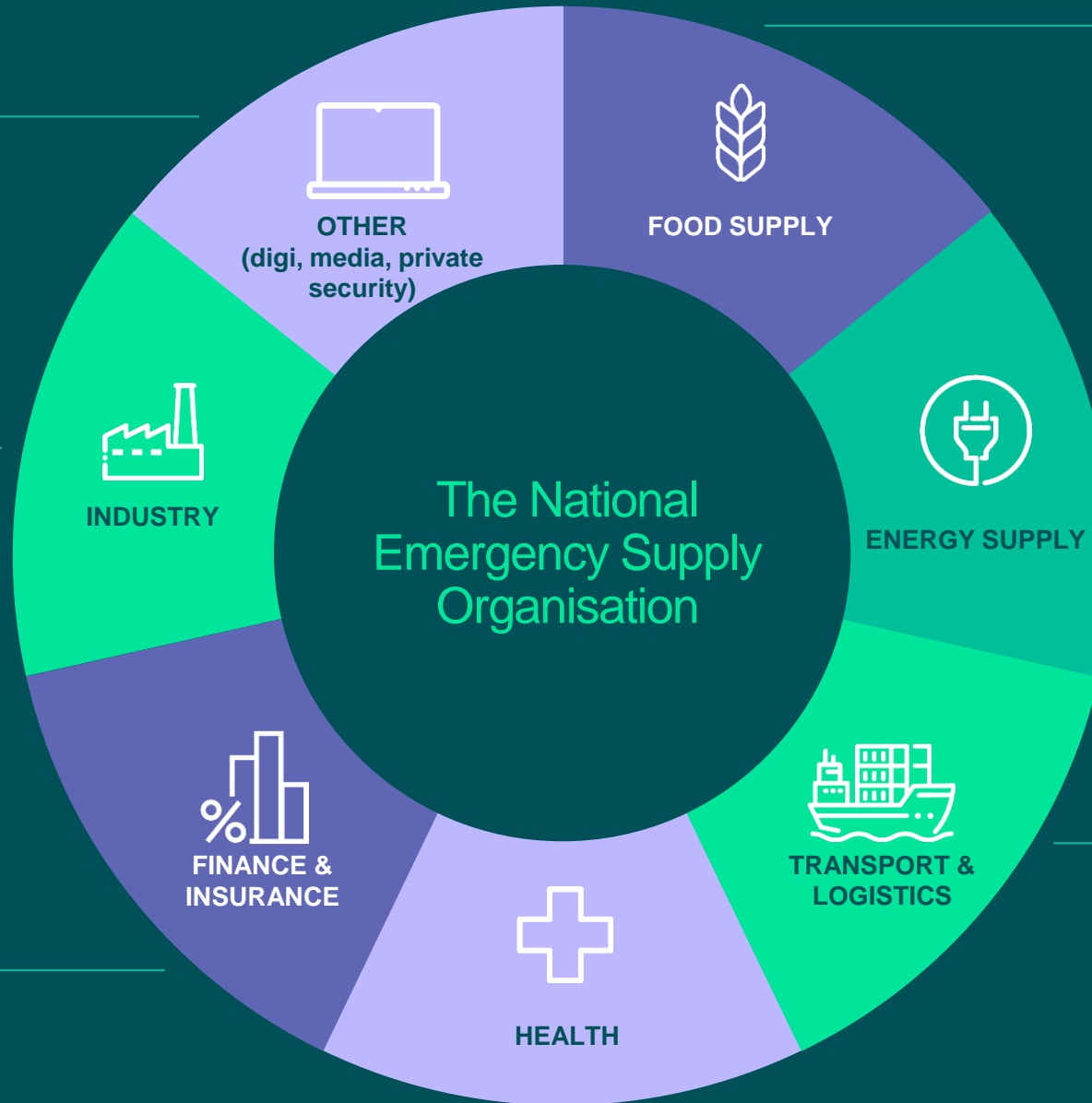


## Public-private cooperation in security of supply

- Media
- Private security
- Digital services and infrastructure
- (Culture)

- Technology
- Forestry
- Defense
- Plastic and rubber
- Chemistry and textile
- Constructions

- Finance
- Insurance
- Economic management



- Basic production
- Food industry
- Retail and distribution
- Food service
- Household preparedness committee

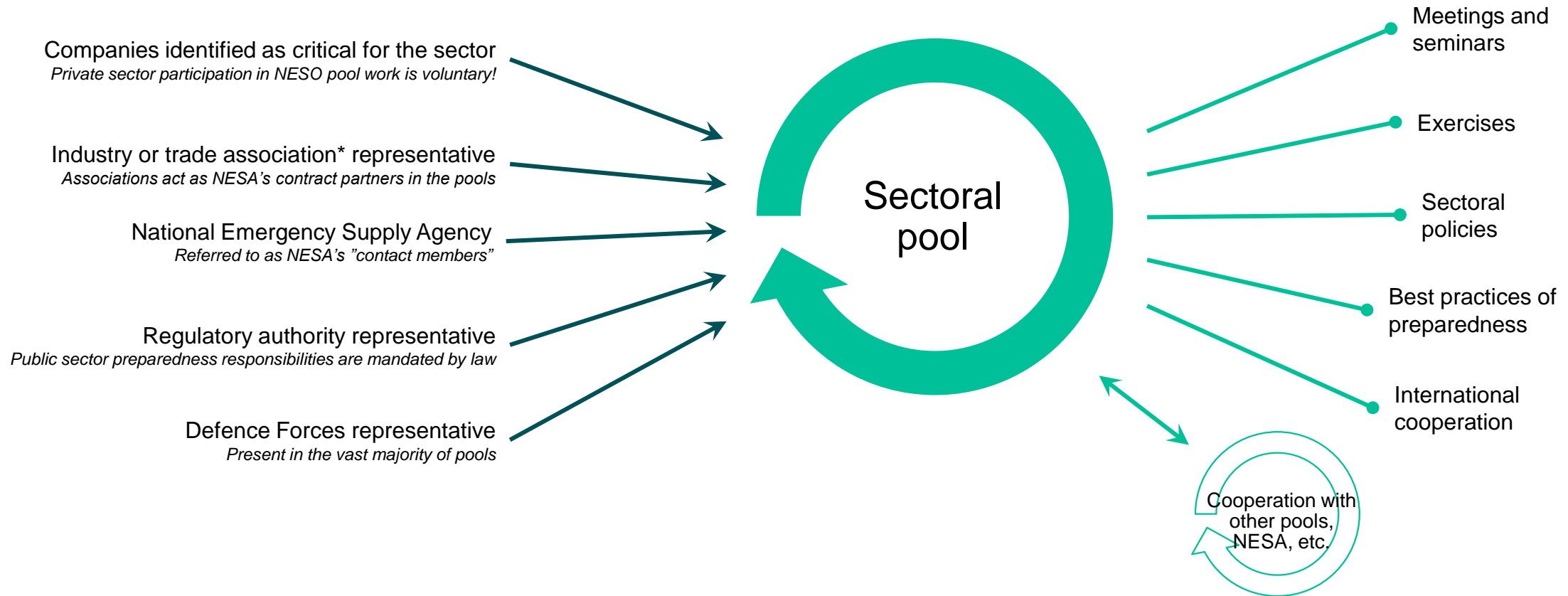
- Gas
- Heat
- Liquid fuels
- Electricity

- Air
- Land
- Sea
- Ports

- Health care
- Water management
- (Waste management)



# Pools: where the interaction happens





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National Emergency Supply Agency

Thank you.

[nesa.fi](https://nesa.fi)

# OECD HLRF 1-2 Feb, Paris

Day 2 parallell session A

# About us, our mission

- Responsible for issues concerning civil protection, public safety, emergency management and civil defence
- We work in close cooperation with the municipalities, county councils, other authorities, the private sector and various organisations

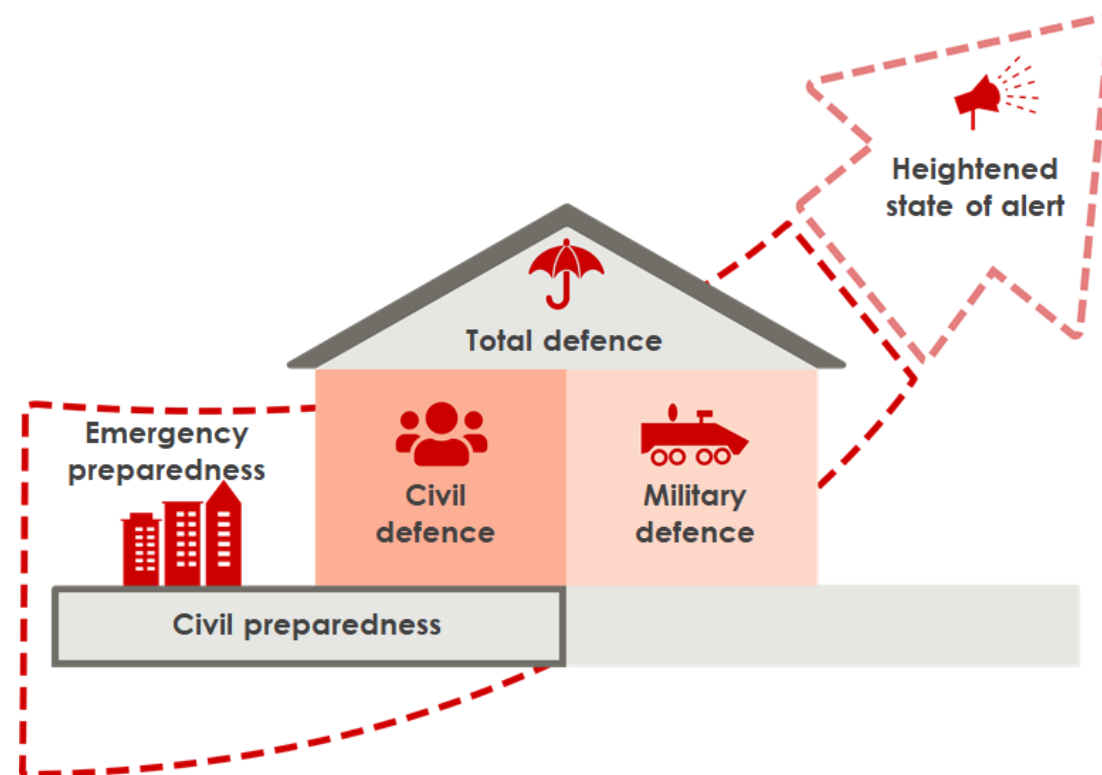


Swedish Civil  
Contingencies  
Agency



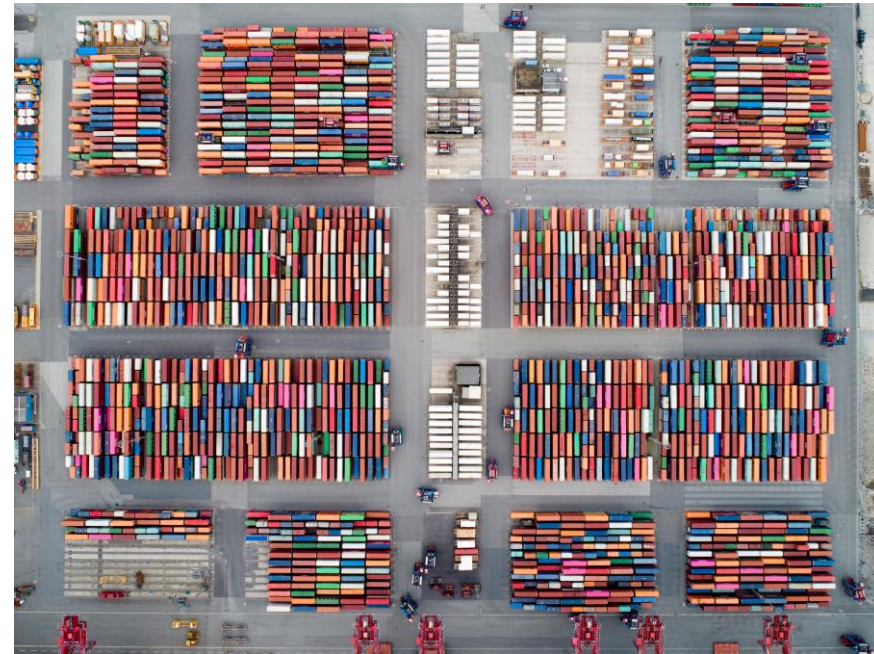
# Risks related to using private sector capacities effectively in Sweden

- Lack of regulations on private sector due to responsibilities during crisis, heightened alert and war
- CP system organized into sectors and geographically areas of responsibility – industry organized differently
- Many years of non-activities on preparedness dialogues – new private-public relations needs to be restored
- Opportunity: Build something new, innovative, agile and future-oriented for the new security environment



# Using private sector capacities to meet emergency supply requirements

- Short presentation of 3 Swedish examples on how to involve the business community:
- **Example 1:** Promoting Flexible preparedness
- **Example 2:** Involving private sector in contingency planning
- **Example 3:** TSI project on strengthening the Swedish capacity through business involvement



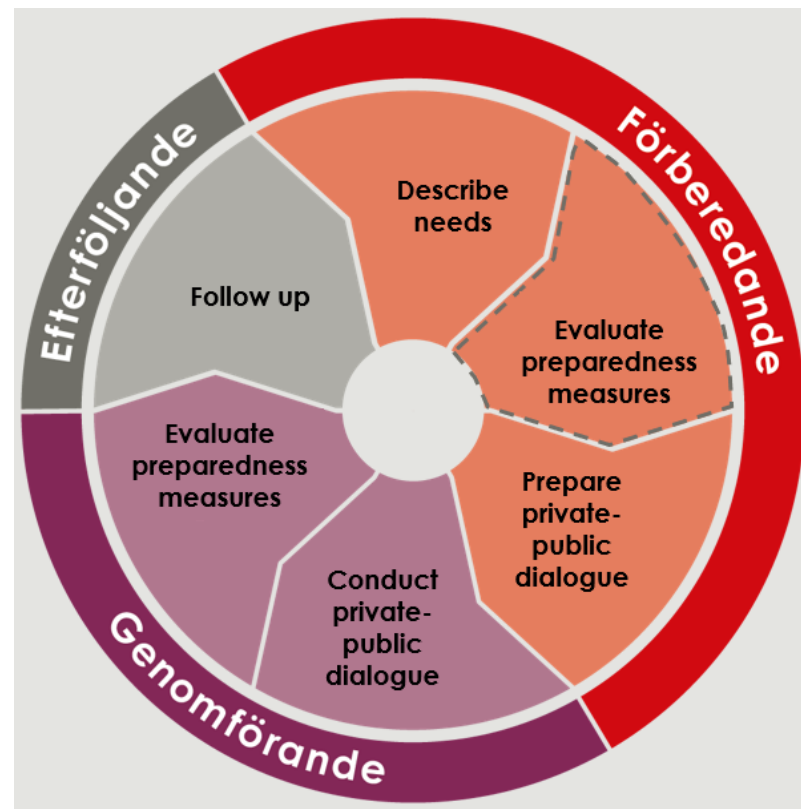
# Promoting Flexible preparedness

- Experiences from pandemic, Ukraine
- Initiative from industry
- New Government assignment
- Point of contact to industry
- Information to companies



# Involving private sector in contingency planning

- Guideline on method/process to agencies, regions and municipalities
- Scenarios from Swedish Defence Research Agency
- How to involve companies, finding efficient measures
- Network of 9 agencies using private sector capacities:
  - Transports, Shipping, Airports, Medicines, Surveillance, among others.



# TSI project on strengthening the Swedish capacity through business involvement

- Sweden is the recipient of support from DG REFORM's 2022 Technical Support Instrument (TSI) and technical assistance from the OECD
- Building a future-oriented crisis preparedness system in Sweden
- Key findings, among others:
  - Proactive preparedness integrating foresight practices into planning and decision making
  - Risk-based approach in public procurement
  - Structured approach to market engagement and assessment of suppliers



**Thank you!**



**Swedish Civil  
Contingencies  
Agency**

# SUPPLY CHAINS DURING EMERGENCIES

*PRESENTATION FOR THE OECD - FEBRUARY 2024*



# 16 Critical Infrastructure Sectors & Corresponding Sector Risk Management Agencies

 CHEMICAL	CISA	 FINANCIAL	Treasury
 COMMERCIAL FACILITIES	CISA	 FOOD & AGRICULTURE	USDA & HHS
 COMMUNICATIONS	CISA	 GOVERNMENT FACILITIES	DHS & GSA
 CRITICAL MANUFACTURING	CISA	 HEALTHCARE & PUBLIC HEALTH	HHS
 DAMS	CISA	 INFORMATION TECHNOLOGY	CISA
 DEFENSE INDUSTRIAL BASE	DOD	 NUCLEAR REACTORS, MATERIALS AND WASTE	CISA
 EMERGENCY SERVICES	CISA	 TRANSPORTATIONS SYSTEMS	TSA & USCG
 ENERGY	DOE	 WATER	EPA



# Defense Production Act

To support emergency preparedness, restoration and recovery, DPA can be used to:

1. Require acceptance and preferential performance of contracts and orders under DPA Title I. (See Federal Priorities and Allocations System (FPAS).)
2. Provide financial incentives and assistance (under DPA Title III) for U.S. industry to expand productive capacity and supply needed for national defense purposes;
3. Provide antitrust protection (through DPA voluntary agreements in DPA Title VII) for businesses to cooperate in planning and operations for national defense purposes, including homeland security



[www.fema.gov/disaster/defense-production-act](http://www.fema.gov/disaster/defense-production-act)

# Supply Chain Resilience Center

## Focus Areas:

- Port security including equipment and cybersecurity risks
- Semiconductor supply chains
- Managing disruptions and shortages
- Exercises related to critical cross-border

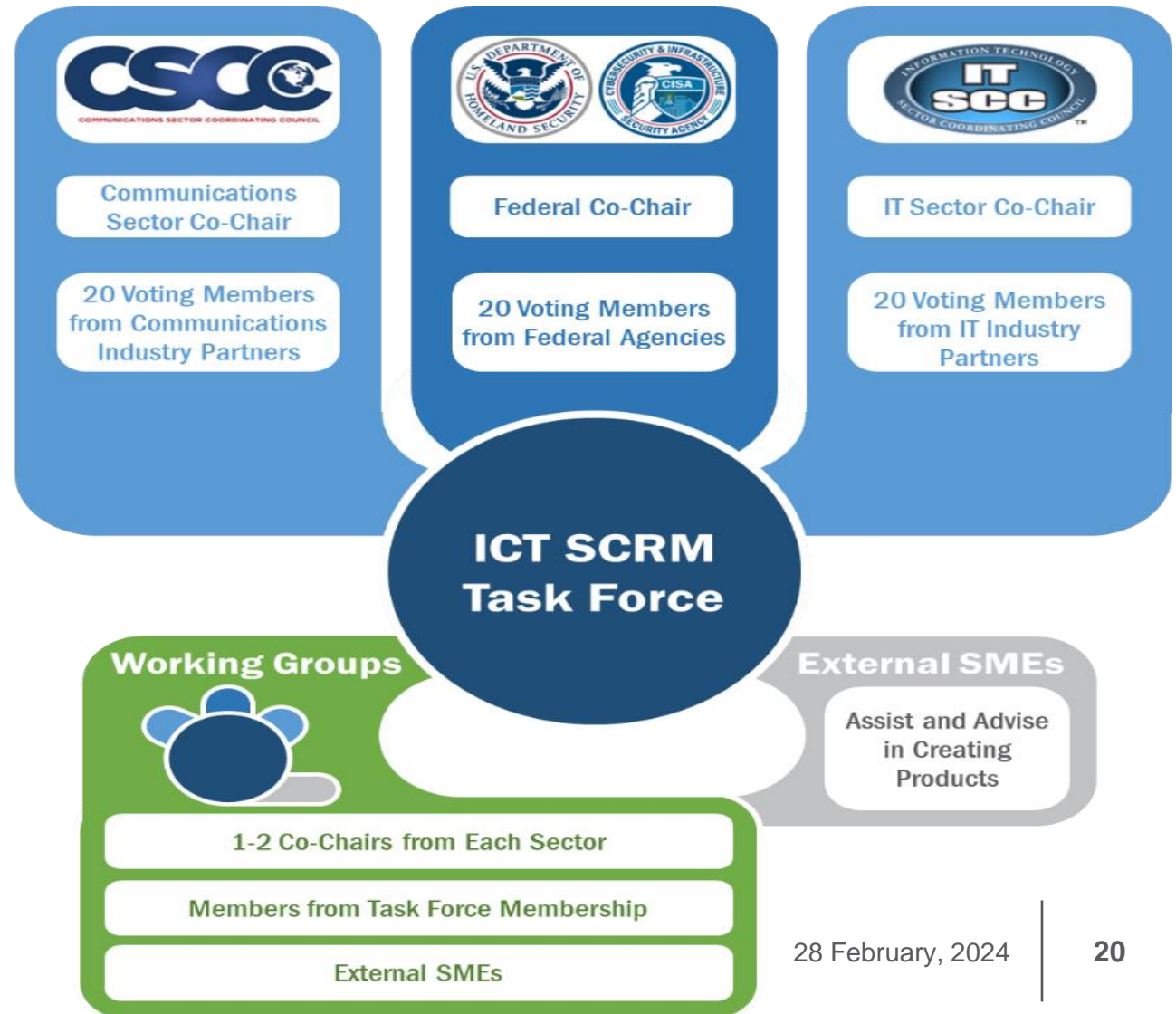


- <https://www.dhs.gov/news/2023/11/27/biden-harris-administration-announces-supply-chain-resilience-center-protect-us>



# Building Collective Supply Chain Resilience

Public-private partnerships are central to CISA's collective defense approach to address the most significant risks to the Nation's critical infrastructure. As such, CISA established the **Information and Communications Technology (ICT) Supply Chain Risk Management (SCRM) Task Force**, which is composed of professionals from the government and the Information Technology and Communications Sectors.





# Whole Society Approach to Mutual Assistance: Ontario, Canada

13<sup>th</sup> OECD  
High Level Risk Forum  
Paris, France  
February 1-2, 2024

# Mutual Assistance in Ontario, Canada

**Martjin Huigens**

*Manager, Emergency Management  
& Business Continuity*

**Toronto Hydro**

**Alisha Khan**

*Senior Manager, Emergency  
Management & Business Continuity*

**Hydro One**

**Shelley Levoy**

*Officer Mutual Assistance &  
Telecom*

**Electricity Canada**



**Electricity Canada is the national voice for sustainable electricity for its members and the customers they serve as the country works towards a Net Zero by 2050 future.**



# Agenda

## Canada, +40° to -40°

- Different climates.
- Different hazards.
- Constant state of readiness.

## Our Story

- 2013 Ice Storm.
- CanMAG & National Mutual Assistance Agreements.
- Why we need OnMAG.

## Partnerships make us different.

- Why connecting with Government & other partners matters.
- Our Spirit of Cooperation - Open communication & information sharing.
- We strive to be proactive, not reactive.



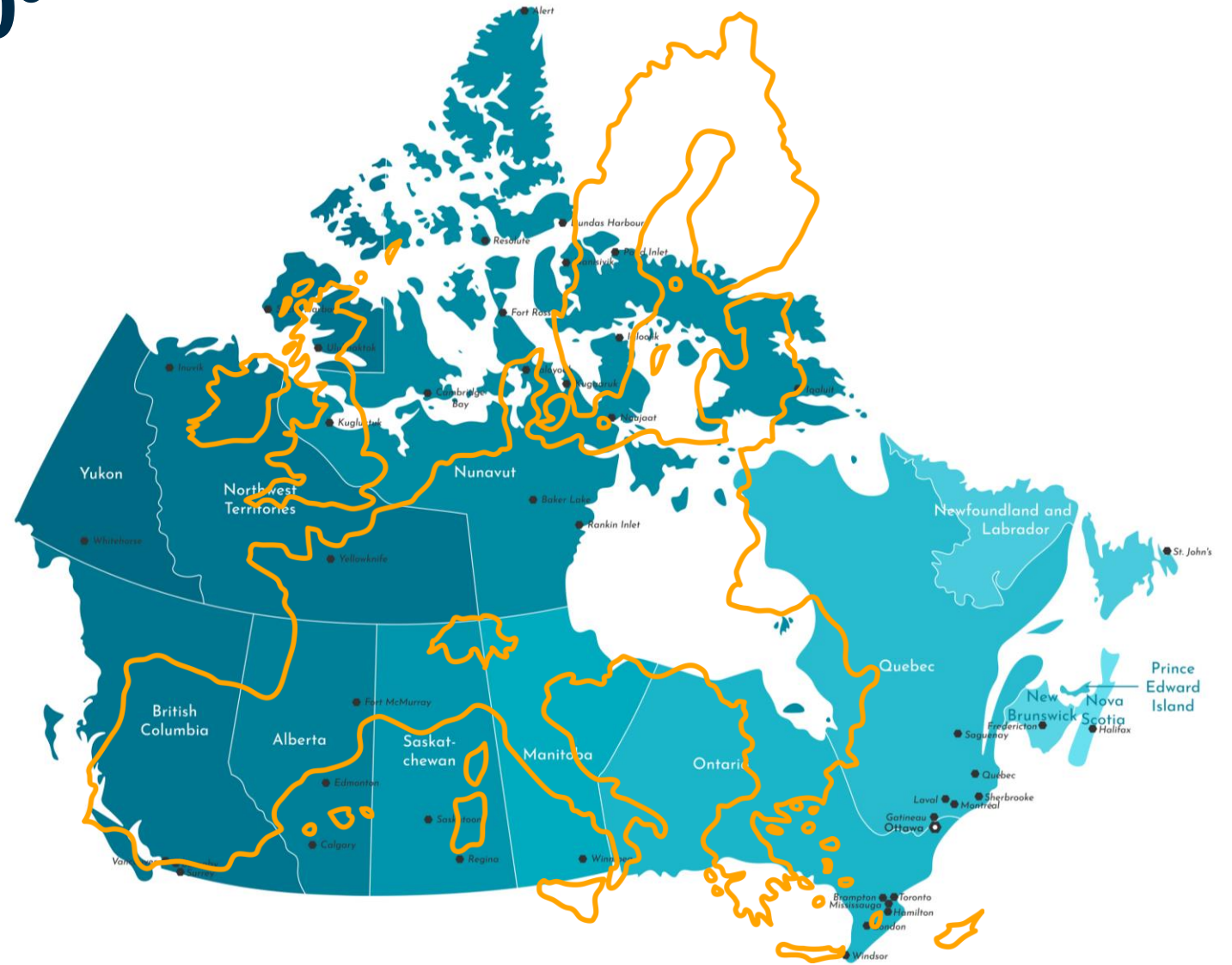
**Canada, +40° to -40°**

A decorative graphic at the bottom of the slide. It features a solid pink horizontal bar. Above this bar, several thin white lines are drawn. On the left side, a series of lines radiate from the top-left corner towards the bottom. On the right side, several curved lines arch over the pink bar, with a small white dot placed on one of the lower curves.

# Canada, +40° to -40°

Canada is the second-largest country in the world.

Total area: 9,984,670 km<sup>2</sup>



Canada



# Canada, +40° to -40°



VANCOUVER	CALGARY	WINNIPEG	TORONTO	MONTREAL	QUEBEC CITY	HALIFAX
975 kms 605 miles 11 hrs	1330 kms 825 miles 13 hrs	2035 kms 1265 miles 21 hrs	550 kms 340 miles 6 hrs	260 kms 160 miles 3 hrs	1020 kms 635 miles 10 hrs	



# Canada, +40° to -40°– Hazards



Winds & Storms



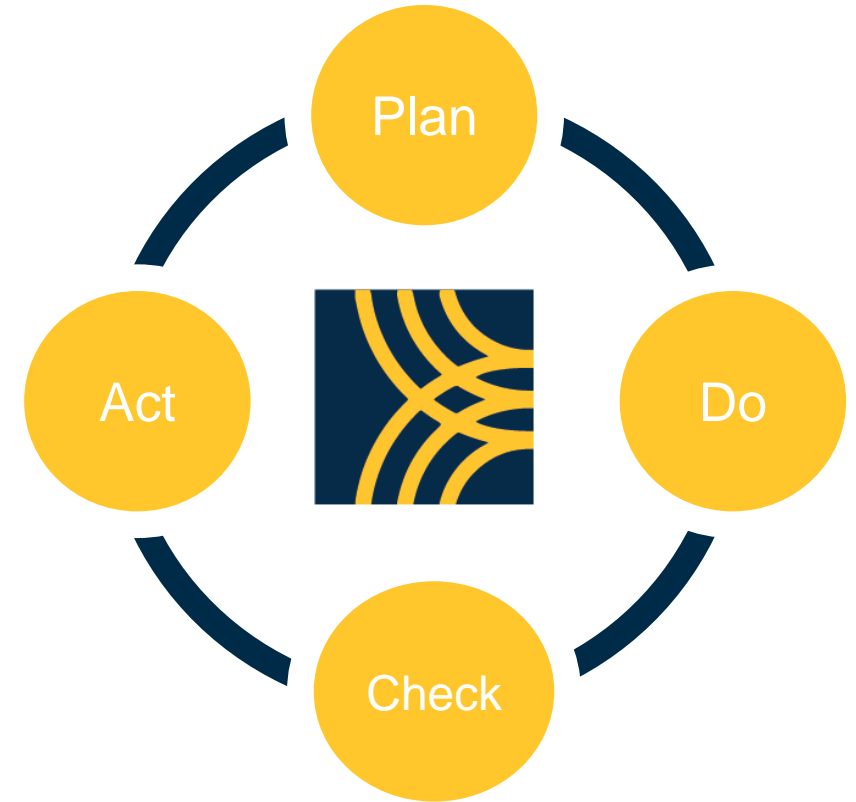
Floods



Fires



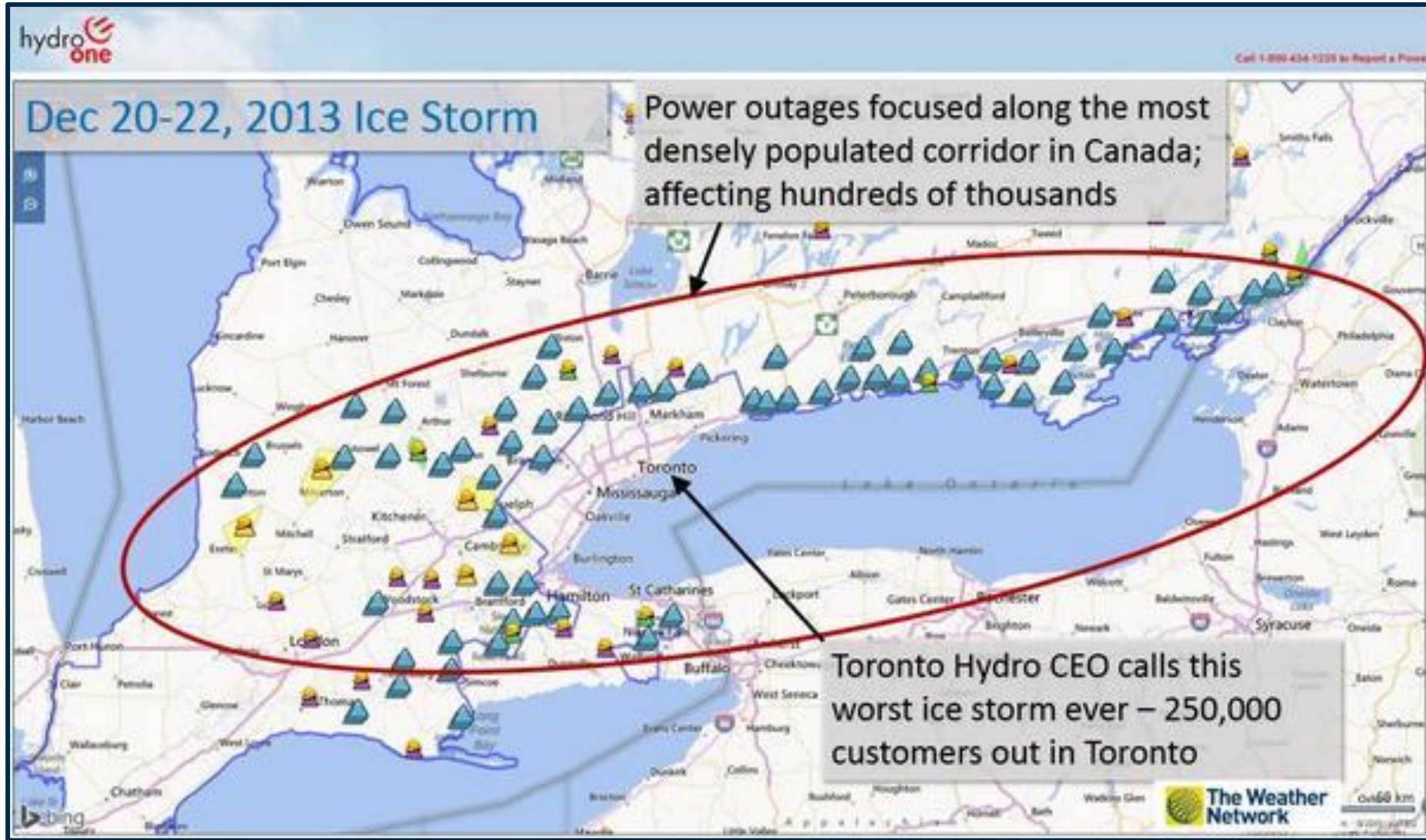
Ice



# Our Story



# Our Story – 2013 Ice storm



# Our Story – CANMAG

**WORKFORCE RECALL**

**SAFETY PROCEDURES**

**LIABILITY &  
IDENTIFICATION**

**ASSISTANCE INITIATION**

**RECORDS**

**REQUESTING COMPANY  
RESPONSIBILITIES**

**PAYMENT INSURANCE**

**SUBCONTRACTORS**

**CONTACT ROSTERS**

**COSTS & EXPENSES**

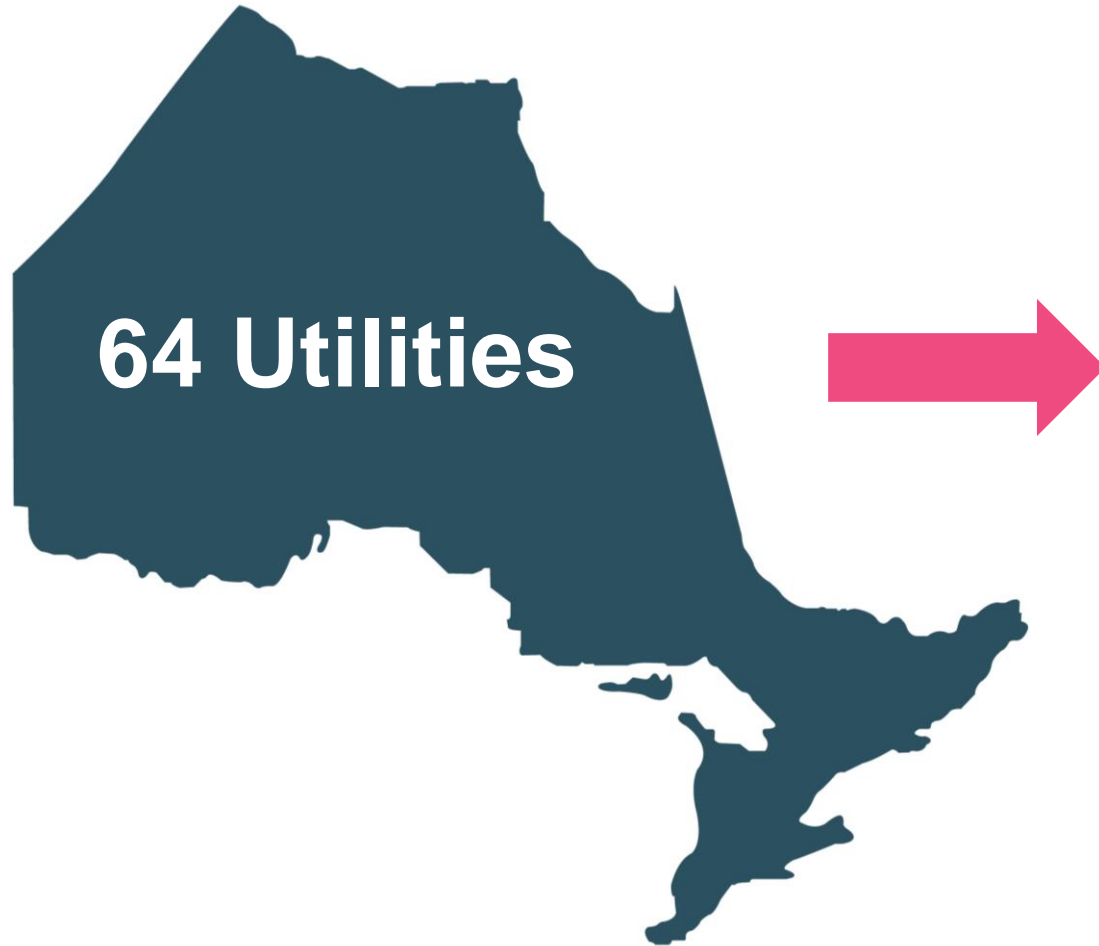
**EMERGENCY  
ASSISTANCE PERIOD**

**RESPONDING PERSONNEL**

**AUTHORIZED  
REPRESENTATIVES**



# | Our Story – We need OnMAG



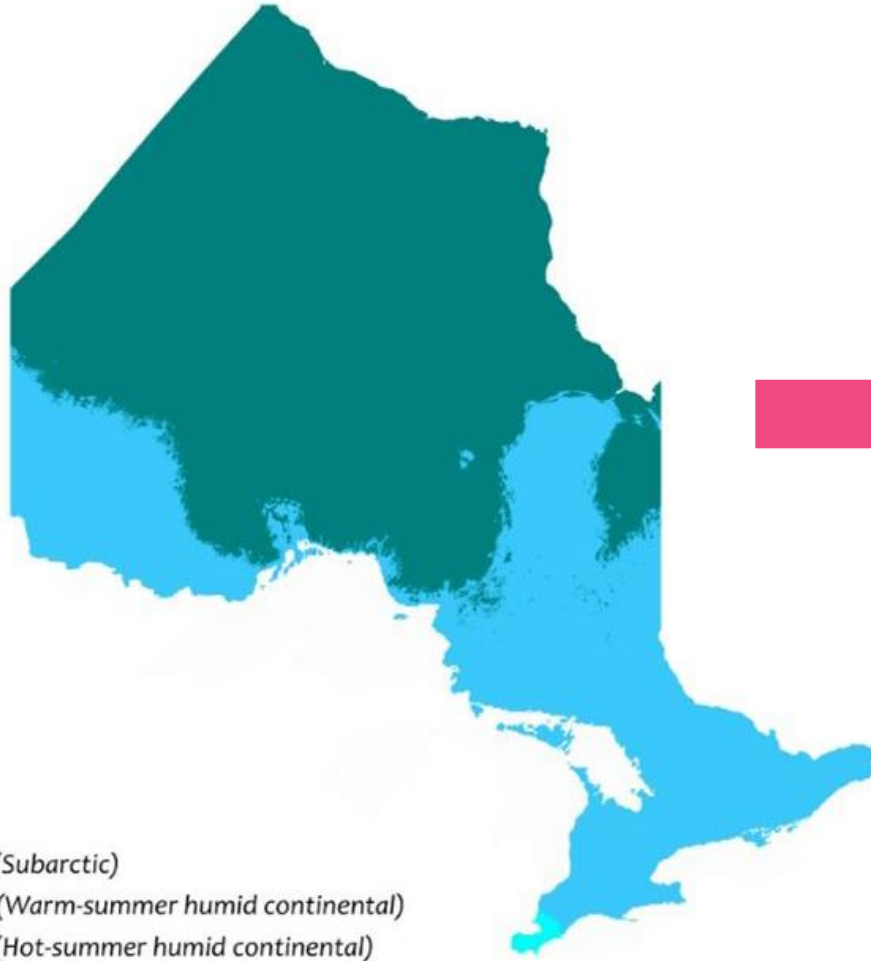
**1.076 million km<sup>2</sup>  
(415,000 square  
miles)**

**an area larger than France and Spain combined.**





# | Our Story – We need OnMAG



**Various climates**

- (Subarctic)
- (Warm-summer humid continental)
- (Hot-summer humid continental)

\*Isotherm used to separate temperate (C) and continental (D) climates is -3°C  
Data source: Climate types calculated from data from WorldClim.org



# Our Story – Rural (Ontario is 96% rural)



hydro  
one

# | Our Story – Urban (represents 81% of Ontario Population)



# | Our Story – How does OnMAG work?



**Hotline**



**Alert Systems**



**Province Wide  
Calls**



**Regular  
Preparations**



# | Our Story – How does OnMAG work?



Requesting Utility decides what offer they accept.






Program participation does not obligate members to offer or accept.




Regulators do not weigh in on assistance decisions.




# Our Story – Successes



1 province



30 utilities



4,742,887 million households and businesses

## Within OnMAG

1st activation -  
December 11, 2021  
Grey Cup weekend in  
Hamilton

2023 = 5 activations, 8  
requests for assistance

An estimated 300,000  
thousand customer  
power outages restored  
earlier than expected  
thanks to OnMAG

11 successful  
activations to date.

2023 = 25 offers of  
assistance accepted,  
150 trucks rolled, 400  
crew deployed

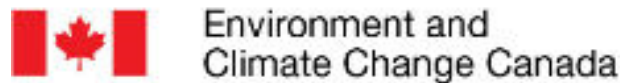


**Partnerships  
make us different**

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# Partnerships make us different

Ontario 





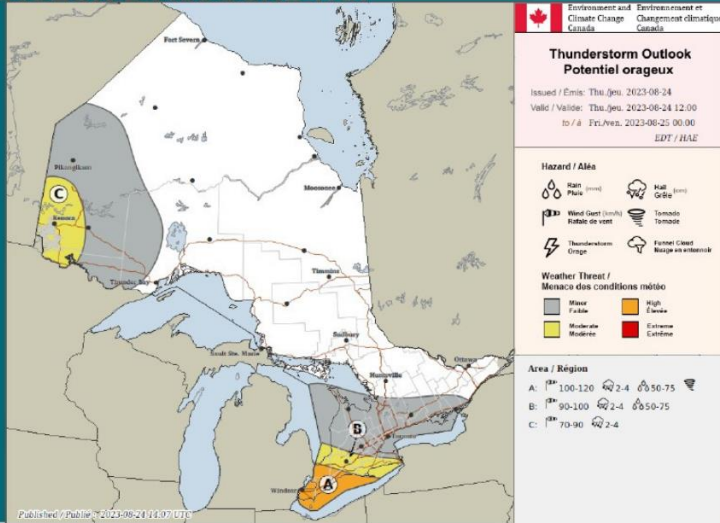
# Partnerships make us different



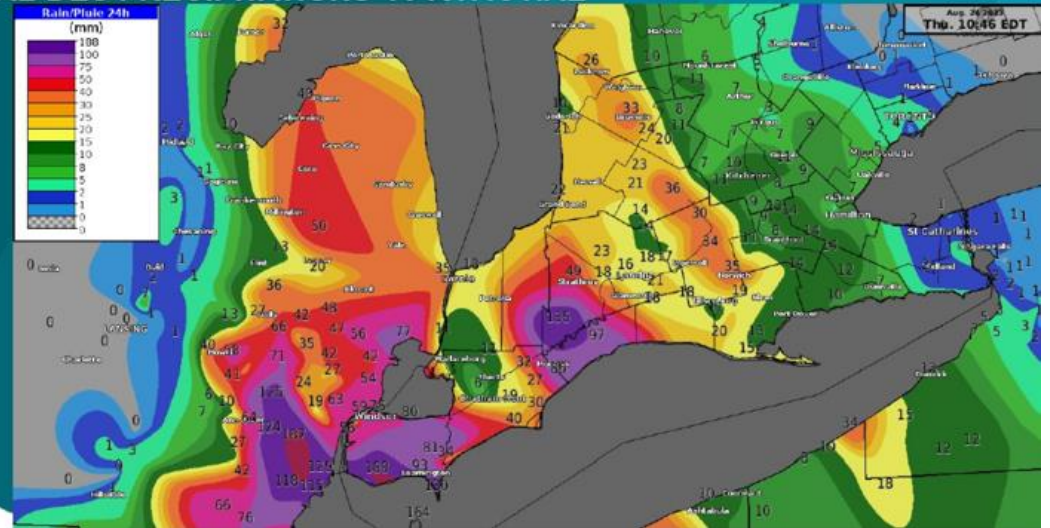
Environment and  
Climate Change Canada

## Weather Briefings

### TODAY'S THUNDERSTORM OUTLOOK POTENTIEL ORAGEUX D'AUJOUR'HUI



### RAINFALL TOTAL AS OF 10:46 A.M. EDT TOTAL DES PRÉCIPITATIONS À 10H46 HAE



# Partnerships make us different



or

- |                                       |                                 |                                   |
|---------------------------------------|---------------------------------|-----------------------------------|
| Akwesasne Mohawk Police Service       | Hamilton Police Service         | Six Nations Police Service        |
| Anishinabek Police Service            | Hanover Police Service          | Smiths Falls Police Service       |
| Aylmer Police Service                 | Kingston Police                 | South Simcoe Police Service       |
| Barrie Police Service                 | Lac Seul Police Service         | St. Thomas Police Service         |
| Belleville Police Service             | LaSalle Police Service          | Stratford Police Service          |
| Brantford Police Service              | London Police Service           | Strathroy-Caradoc Police Service  |
| Brockville Police Service             | Niagara Regional Police Service | Thunder Bay Police Service        |
| Chatham-Kent Police Service           | Nishnawbe-Aski Police Service   | Timmins Police Service            |
| City of Kawartha Lakes Police Service | North Bay Police Service        | Toronto Police Service            |
| Cobourg Police Service                | Ontario Provincial Police       | UCCM Anishnaabe Police Service    |
| Cornwall Police Service               | Ottawa Police Service           | Waterloo Regional Police Service  |
| Deep River Police Service             | Owen Sound Police Service       | West Grey Police Service          |
| Dryden Police Service                 | Peel Regional Police            | Wikwemikong Tribal Police Service |
| Durham Regional Police Service        | Peterborough Police Service     | Windsor Police Service            |
| Gananoque Police Service              | Port Hope Police Service        | Woodstock Police Service          |
| Greater Sudbury Police Service        | Rama Police Service             | York Regional Police              |
| Guelph Police Service                 | Sarnia Police Service           |                                   |
| Halton Regional Police Service        | Saugeen Shores Police Service   |                                   |
|                                       | Sault Ste. Marie Police Service |                                   |



# | Partnerships make us different – IESO



## **Independent Electricity System Operator**

Manages the power system in real-time, planning for the province's future energy needs, enabling conservation and designing a more efficient electricity marketplace to support sector evolution.



# Partnerships make us different

## Why does OnMAG work?



Our spirit of cooperation.



Open communication & information sharing.



We strive to be proactive, not reactive.



Decision making power is in the hands of those needing assistance.



# Thank you

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