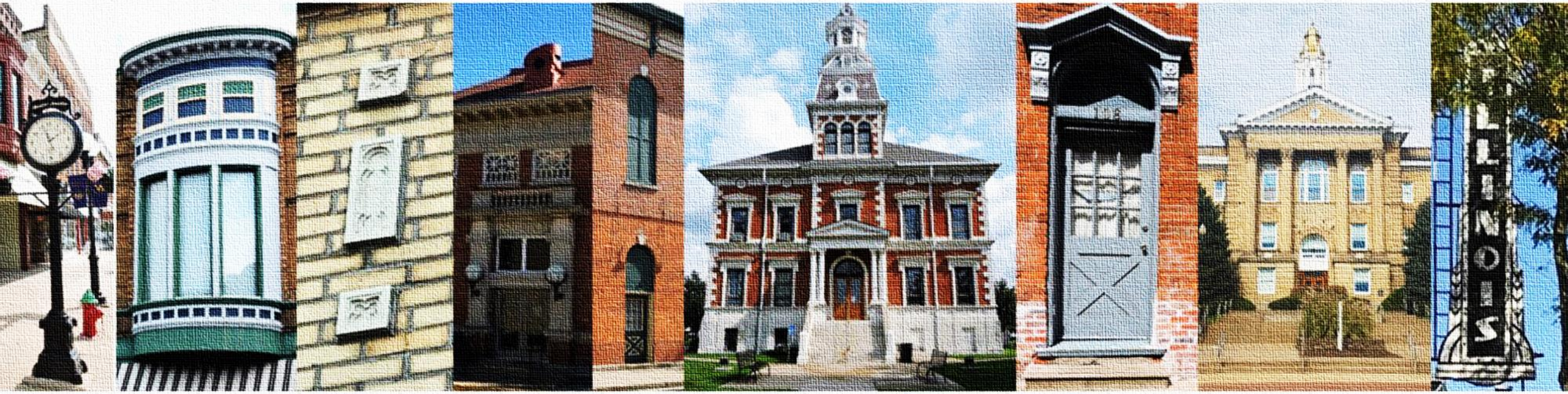


Public Works and Emergency Management; Working together and speaking the same language

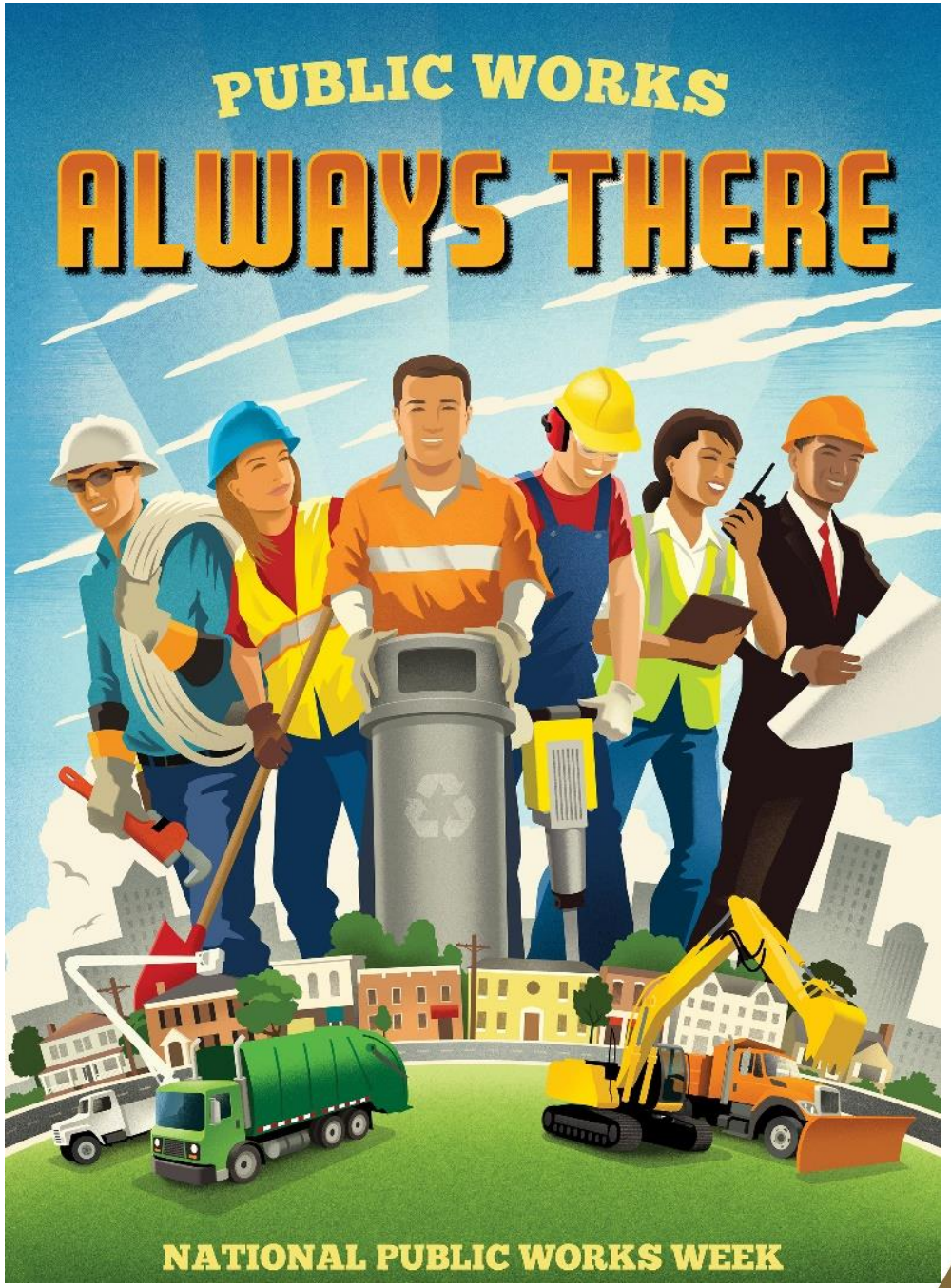
Edgar R. Rodriguez

Director

McDonough County Emergency Services and Disaster Agency

Outline

- What is Emergency Management?
- All emergencies are local
- Using a Common Language
- How do I fit in ICS?
- Lifelines



What is Emergency Management ?

All emergencies are local

- From neighbors taking care of one another, to local and state governments utilizing mutual-aid agreements and Emergency Management Assistance Compacts(EMAC); all emergencies should be handle locally instead of waiting for the federal government assistance.

All emergencies are local

- Brief history
  - In 1951 Illinois created the Illinois Civil Defense Agency follow by the local creation of civil defense offices
  - In 1975 the Name change to Illinois Emergency Services and Disaster Agency
  - In 1979 the Federal Emergency Management Agency is created
  - And in 1992 the name change again to Illinois Emergency Management Agency

Emergency Management

- Event Driven (Reactive)
  - During WWII and throughout the Cold War possibility of Nuclear attack preparedness
  - 1974 Tornado Outbreak (148 register tornados 30 EF4/EF5)
  - September 11, 2001

FEMA

How do we improve communication

- Break down the Silos that divide us

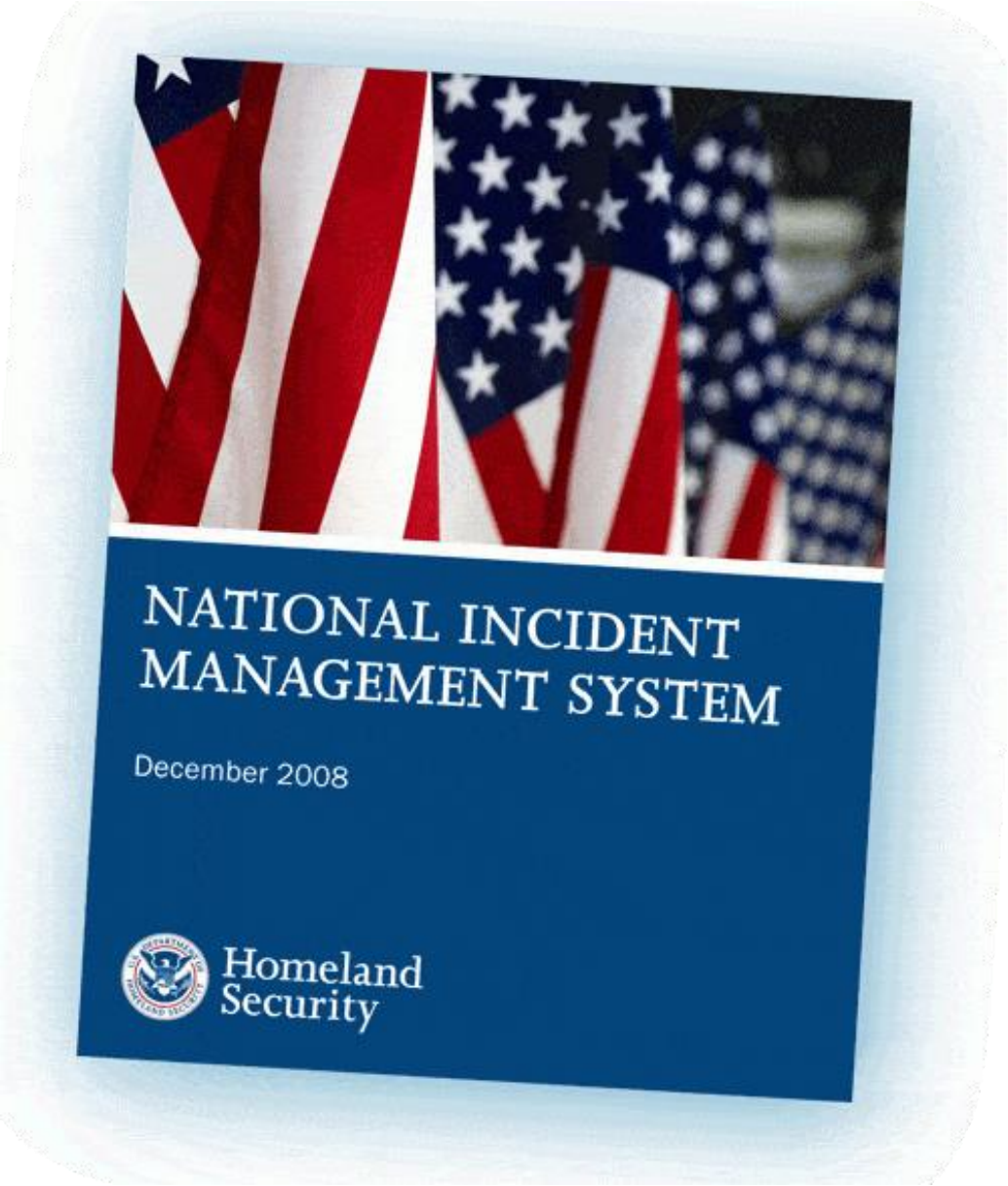
- But everybody likes their already establish system

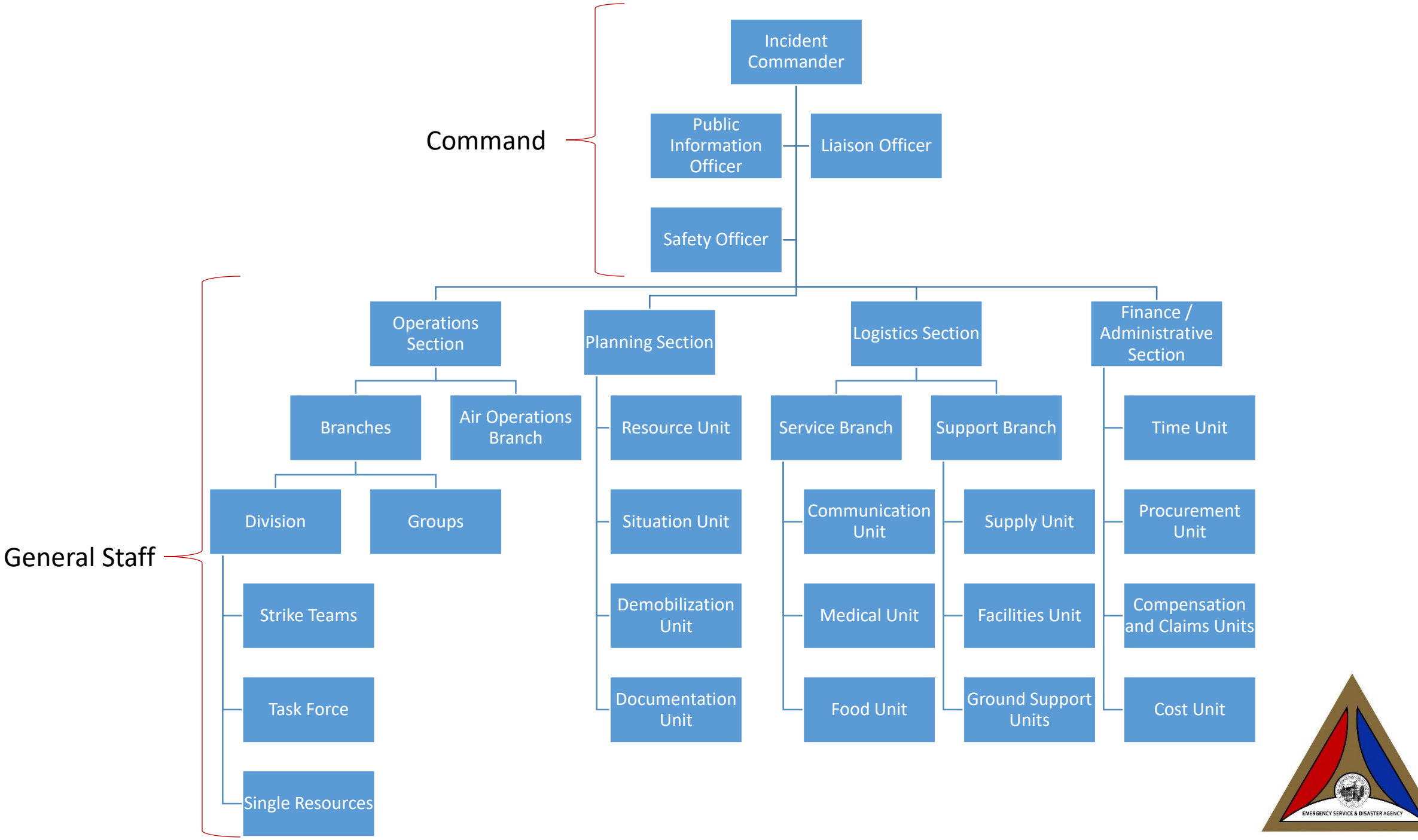
ICS Brief History

- The Incident Command System concept was formed in 1968 at a meeting of Fire Chiefs in Southern California.
- Created primarily to address problems with interoperability between agencies responding to wildfires in California and Arizona

NIMS Brief History

- The National Incident Management System (NIMS).
  - Developed by the Department of Homeland Security and issued in March 2004, enable responders at all jurisdictional levels and across all disciplines to work together more effectively and efficiently.
  - Beginning in FY 2006, federal funding for state, local and tribal preparedness grants will be tied to compliance with the NIMS.




Command
Incident Commander
Public Information Officer
Liaison Officer
Safety Officer
General Staff
Operations Section
Planning Section
Logistics Section
Finance / Administrative Section
Branches
Air Operations Branch
Division
Groups
Strike Teams
Task Force
Single Resources
Resource Unit
Situation Unit
Demobilization Unit
Documentation Unit
Service Branch
Support Branch
Communication Unit
Medical Unit
Food Unit
Supply Unit
Facilities Unit
Ground Support Units
Time Unit
Procurement Unit
Compensation and Claims Units
Cost Unit
EMERGENCY SERVICE & DISASTER AGENCY

Incident Command System

- Scalable
  - Able to adjust to the event
- Manageable
  - Span and Control
  - 3 to 7 : 1 (Optimal 5:1)
- Local or outsource

Office of Homeland Security
IMT
Illinois Terrorism Task Force

ILLINOIS EMERGENCY SERVICES MANAGEMENT ASSOCIATION
EMAT
EMERGENCY MANAGEMENT ASSISTANCE TEAM

EMERGENCY SERVICE & DISASTER AGENCY

Something to be proud of

Illinois

the state with the best and most robust Mutual System

Teams

Some of the Mobile Support Teams (MSTs) available in Illinois:

INCIDENT COMMAND
IL-IMT – Illinois Incident Management Team

EMERGENCY MANAGEMENT
EMAT – Illinois Emergency Management Mutual Aid System

MEDICAL
IMERT- Illinois Medical Emergency Response Team

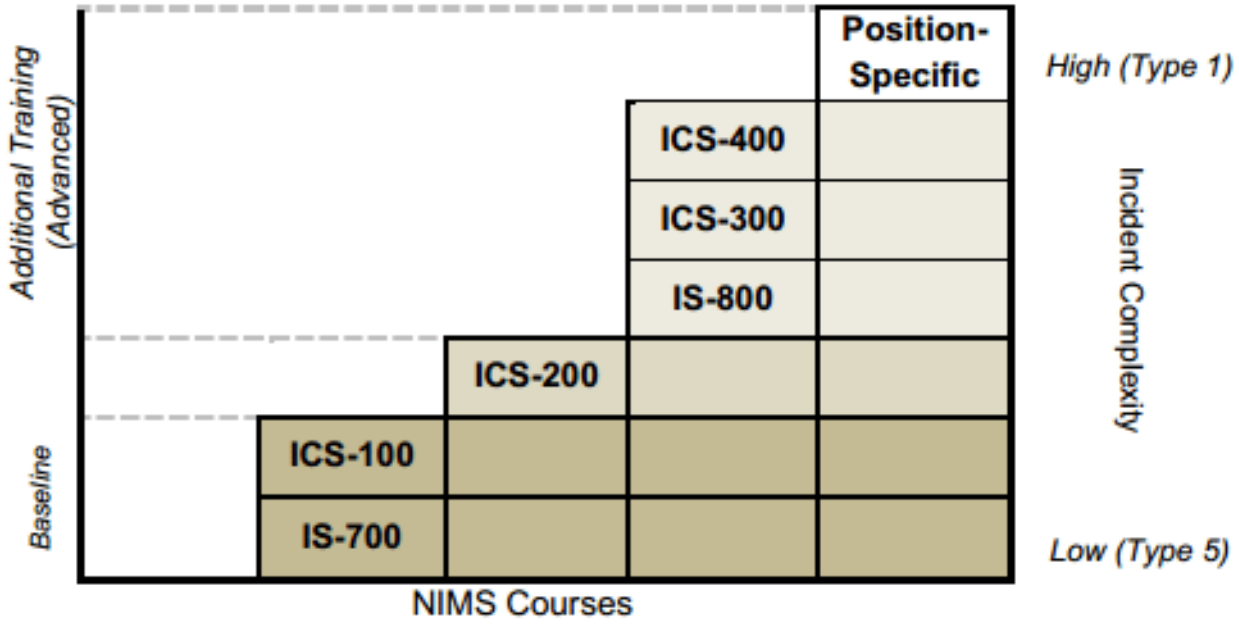
PUBLIC WORKS
IPWMAN – Illinois Public Works Mutual Aid Network

LAW ENFORCEMENT
ILEAS – Illinois Law Enforcement Alarm System

FIRE
MABAS – Mutual Aid Box Alarm System

Incident Management Teams

- Incident Management Teams: are composed if Command and General Staff member and support personnel who are qualified and prepared to respond formally to a variety of incidents with various complexity.
- Teams types are based on training and experience.
- Some teams are available to response 24 hours a day and 365 days a year.

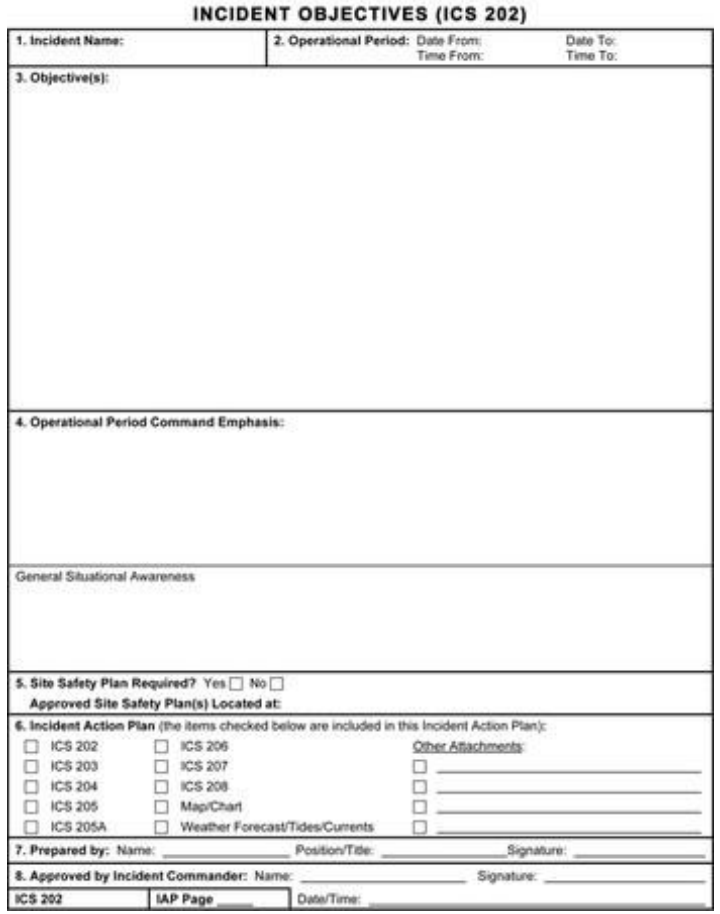


Incident Management Teams

Type	Resources
Type I	National or State teams (existing) for incidents of national significance
Type II	National or State teams (existing) for incidents of regional significance
All Hazards Incident Management Teams (AHIMT)	Multiagency / Multijurisdictional team doe extended incidents
Local	Single or Multiagency teams for expanded incidents and single-discipline team for initial actions and small incidents

Overall Priorities for any events

- Objectives and initial decisions are made based on:
  - Life Safety
  - Incident Stabilization
  - Property Conservation



INCIDENT OBJECTIVES (ICS 202)

1. Incident Name:	**2. Operational Period:** Date From: Date To: Time From: Time To:

3. Objective(s):

4. Operational Period Command Emphasis:

General Situational Awareness

5. Site Safety Plan Required? Yes ☐ No ☐
Approved Site Safety Plan(s) Located at:

6. Incident Action Plan (the items checked below are included in this Incident Action Plan):

☐ ICS 202	☐ ICS 206	Other Attachments:
☐ ICS 203	☐ ICS 207	☐ _____
☐ ICS 204	☐ ICS 208	☐ _____
☐ ICS 205	☐ Map/Chart	☐ _____
☐ ICS 205A	☐ Weather Forecast/Tides/Currents	☐ _____

7. Prepared by: Name: _____ Position/Title: _____ Signature: _____

8. Approved by Incident Commander: Name: _____ Signature: _____

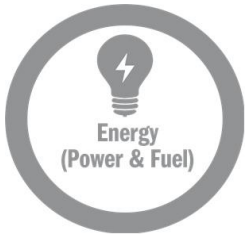
ICS 202	**IAP Page** ____	Date/Time: _____

Community Lifelines

A lifeline enables the continuous operation of **government functions** and **critical business** and is essential to **human health** and **safety** or **economic security.**

Community Lifeline Components

1. **Safety and Security**
   - Law Enforcement / Security
   - Search and Rescue
   - Fire Services
   - Government Services
   - Responder Safety
   - Imminent Hazard Mitigation
2. **Food, Water, Sheltering**
   - Evacuations
   - Food/Potable Water
   - Shelter
   - Durable Good
   - Water Infrastructure
   - Agriculture
3. **Health and Medical**
   - Medical Care
   - Patient Movement
   - Public Health
   - Facility Management
   - Health Care Supply Chain



4. **Energy**
   - Power (Grid)
   - Temporary Power
   - Fuel
5. **Communication**
   - Infrastructure
   - Alerts, Warnings, Messages
   - 911 and Dispatch
   - Responder Community
   - Financial Services
6. **Transportation**
   - Highway/Roadway
   - Mass Transit
   - Railway
   - Aviation
   - Maritime
   - Pipeline
7. **Hazardous Material**
   - Facilities
   - Hazardous Debris, Pollutants, Contaminants

Community Lifeline

- Improve communication

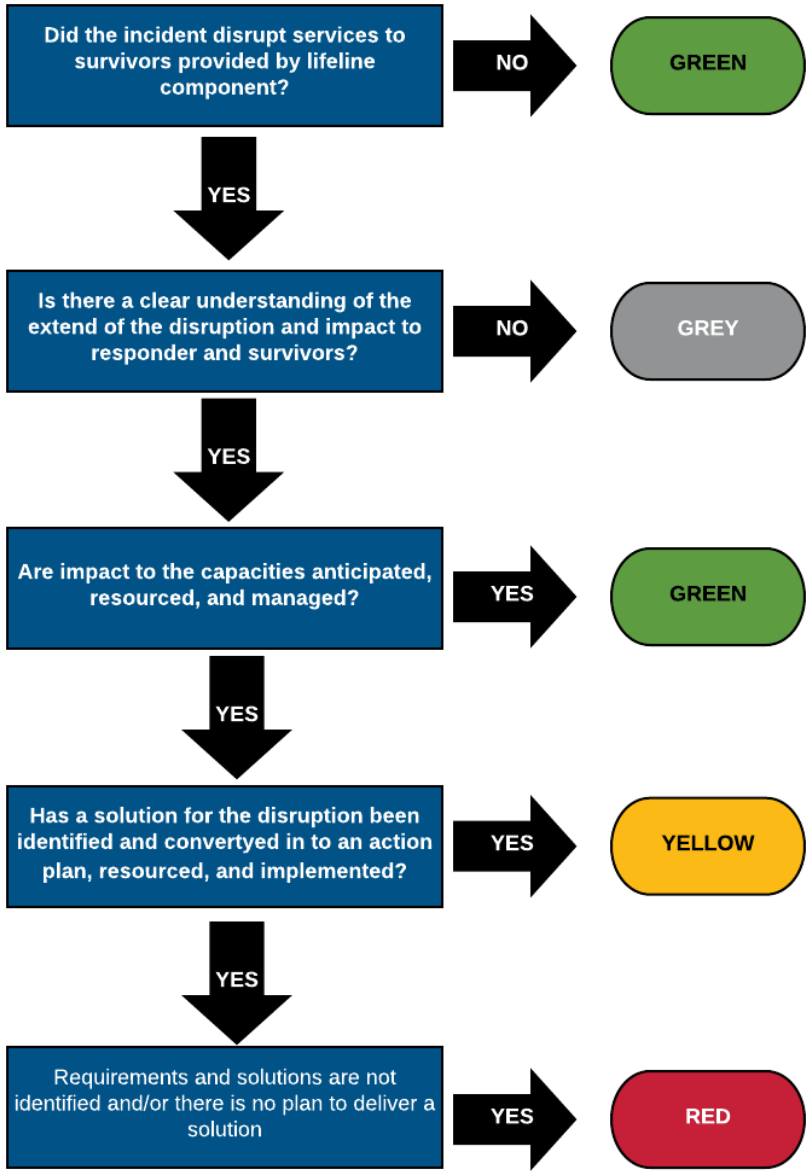
Root Cause Analysis	
Status	“What ?”
Impact	“So What?”
Actions	“Now What?”
	And any Limiting Factors?

- **Transportation:**

  Highways and Roadways

  - Status of major roads and highways
  - Status of critical and non-critical bridges
  - Status of maintenance and emergency repairs

Assigning a Status Process



Example

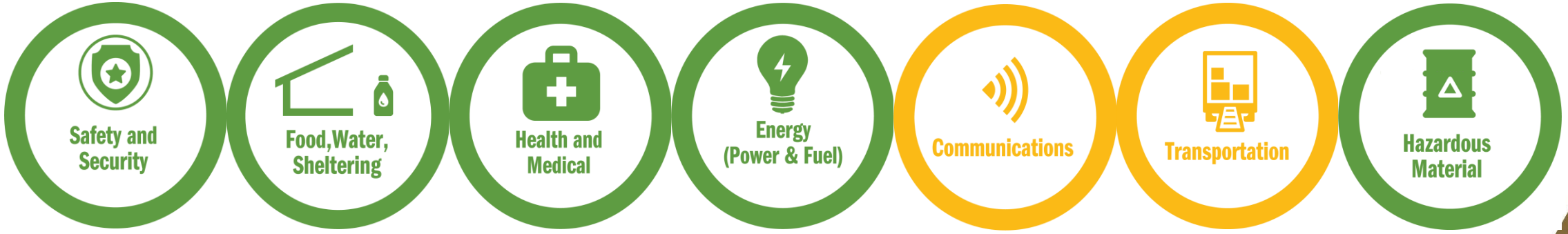
Below are example analyses for the Food, Water, Sheltering lifeline and corresponding color statuses for each.

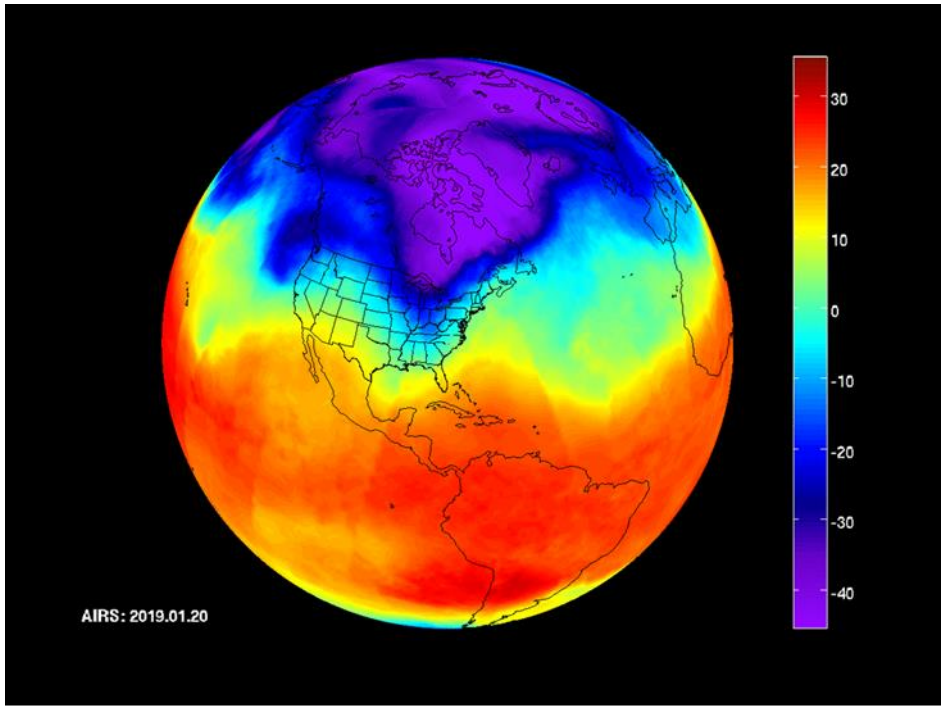
Status	Example
Grey	Unconfirmed reports by survivors have indicated the drinking water has a strange taste. Specialists are currently testing the water, but there is no further information at this time.
Red	Hazardous material spills caused by the incident made local water unpotable. Disruptions to local roadways means difficulty in distribution. Downed public messaging systems means the response is unable communicate water hazards and bottled water distribution points to survivors.
Yellow	Hazardous material spills caused by the incident made local water unpotable. Pallets of water bottles are onsite, however disruption to local roadways means distribution is challenging. Field Leadership has authorized helicopters to carry pallets to inaccessible communities.
Green	Hazardous material spills caused by the incident made local water unpotable. The distribution of pallets of water to affected communities is sufficient to cause no impact to survivors.

This system creates a picture for EM

McDonough County Events

Post Thanksgiving Blizzard





Polar Vortex

Safety and Security

Food,Water, Sheltering

Health and Medical

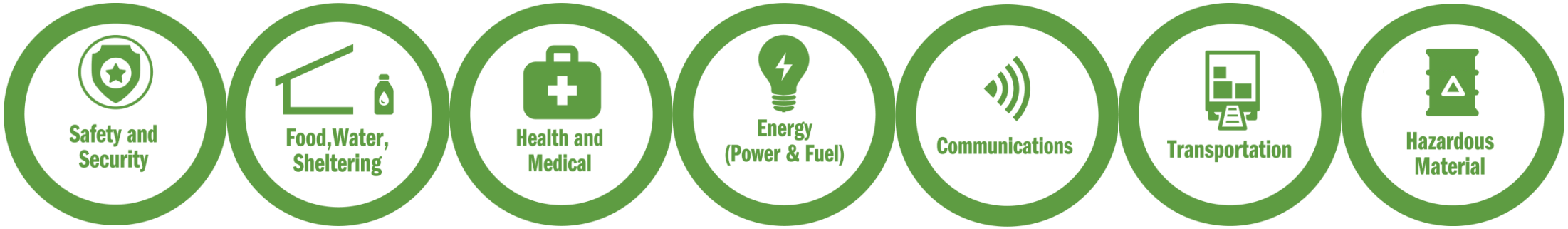
Energy (Power & Fuel)

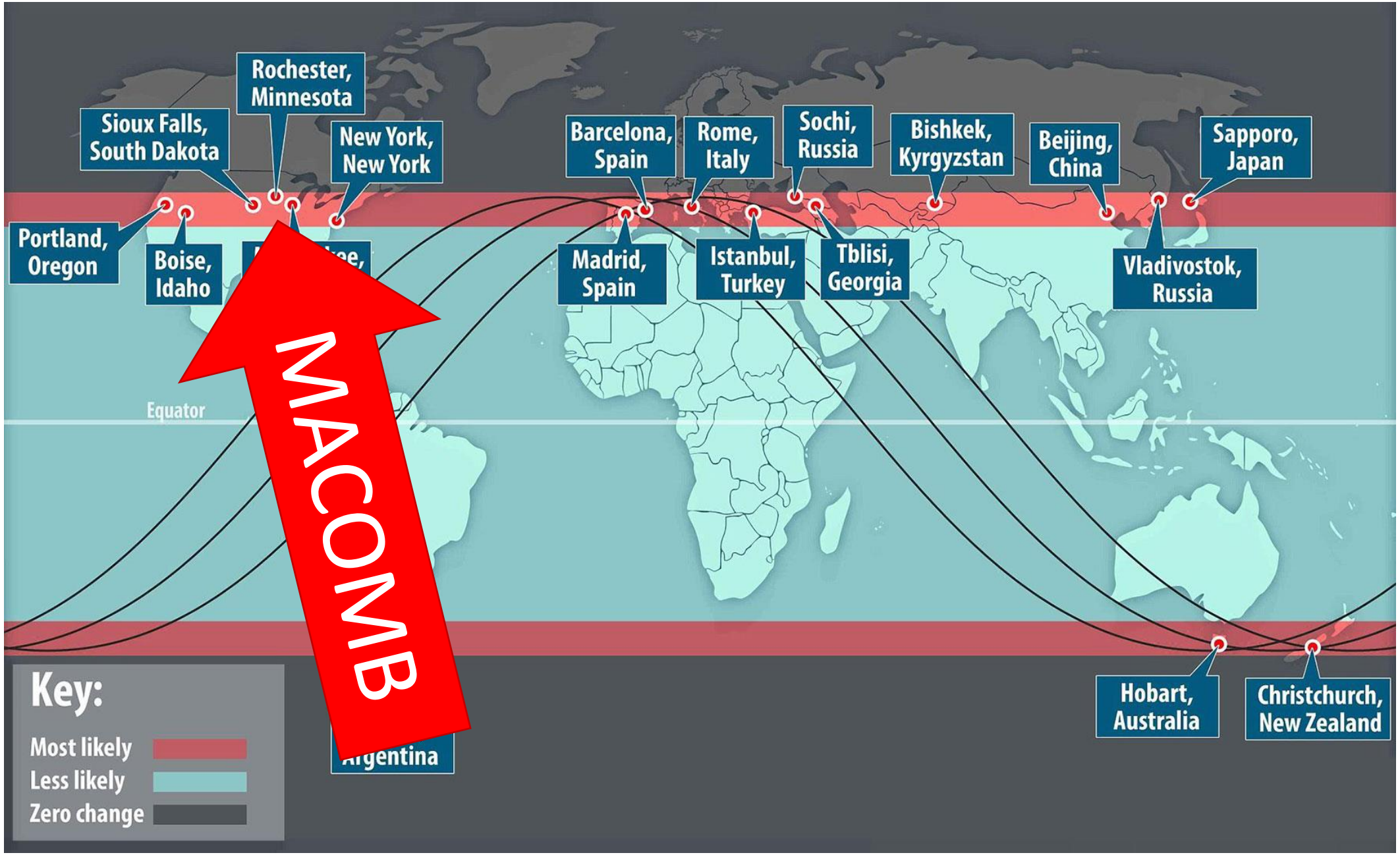
Communications

Transportation

Hazardous Material

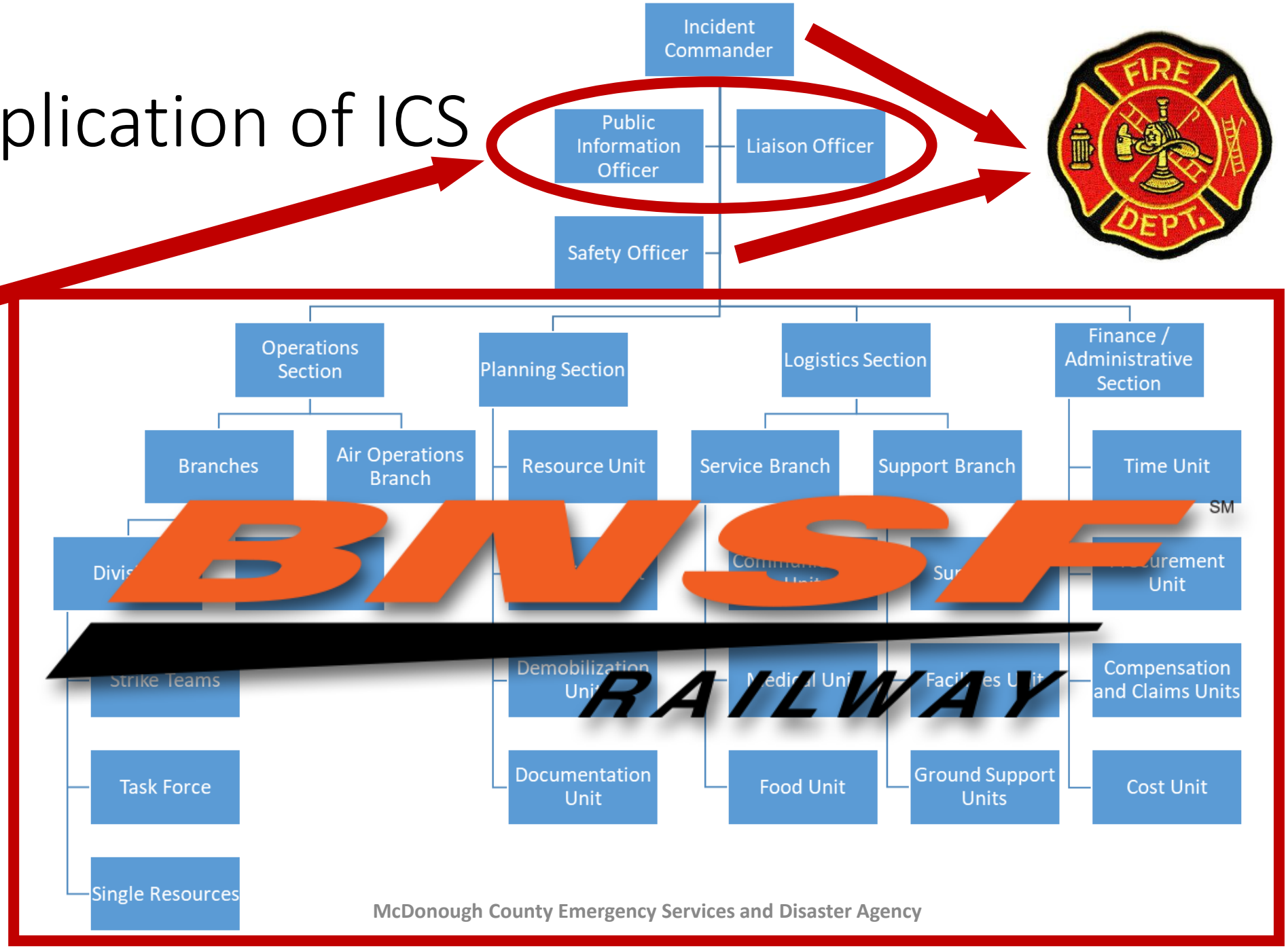
December 1st Tornadoes



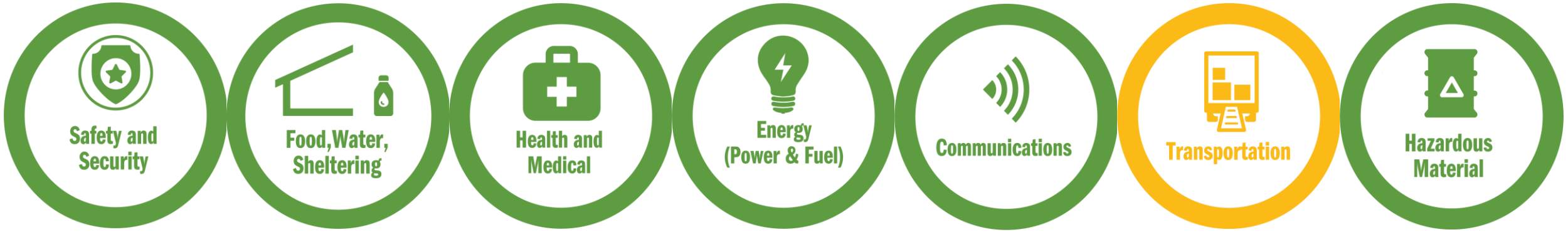

Rochester, Minnesota
Sioux Falls, South Dakota
New York, New York
Portland, Oregon
Boise, Idaho
Barcelona, Spain
Rome, Italy
Sochi, Russia
Bishkek, Kyrgyzstan
Beijing, China
Sapporo, Japan
Madrid, Spain
Istanbul, Turkey
Tblisi, Georgia
Vladivostok, Russia
Equator
MACOMB
Argentina
Hobart, Australia
Christchurch, New Zealand
Key:
Most likely
Less likely
Zero change

Derailment (January 12)

Application of ICS



Lineline outlook



Develop your Public Information Officer Skills

EMERGENCY SERVICE & DISASTER AGENCY

Challenges in Rural Communities

- Most of the Emergency Managers in rural communities are part time

- Lack of immediate resources to address issues in the community
  - Human
  - Material

Rewards of working in Rural Communities

- Visible and tangible effects in the Community
- Meaningful impact

Joplin, Mo., Nov. 22, 2011 -- A restored fountain in Joplin commemorates the date an EF5 tornado struck this southwestern Missouri city. The first tier has five water spouts, the second twenty-two and the third has eleven spouts to signify the date 05/22/11. Jace Anderson/FEMA Photo by Leo 'Jace' Anderson - Nov 21, 2011 - Location: Joplin, MO

Contact Information

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