

EMRG

Emergency Measures Radio Group

and

Ottawa ARES

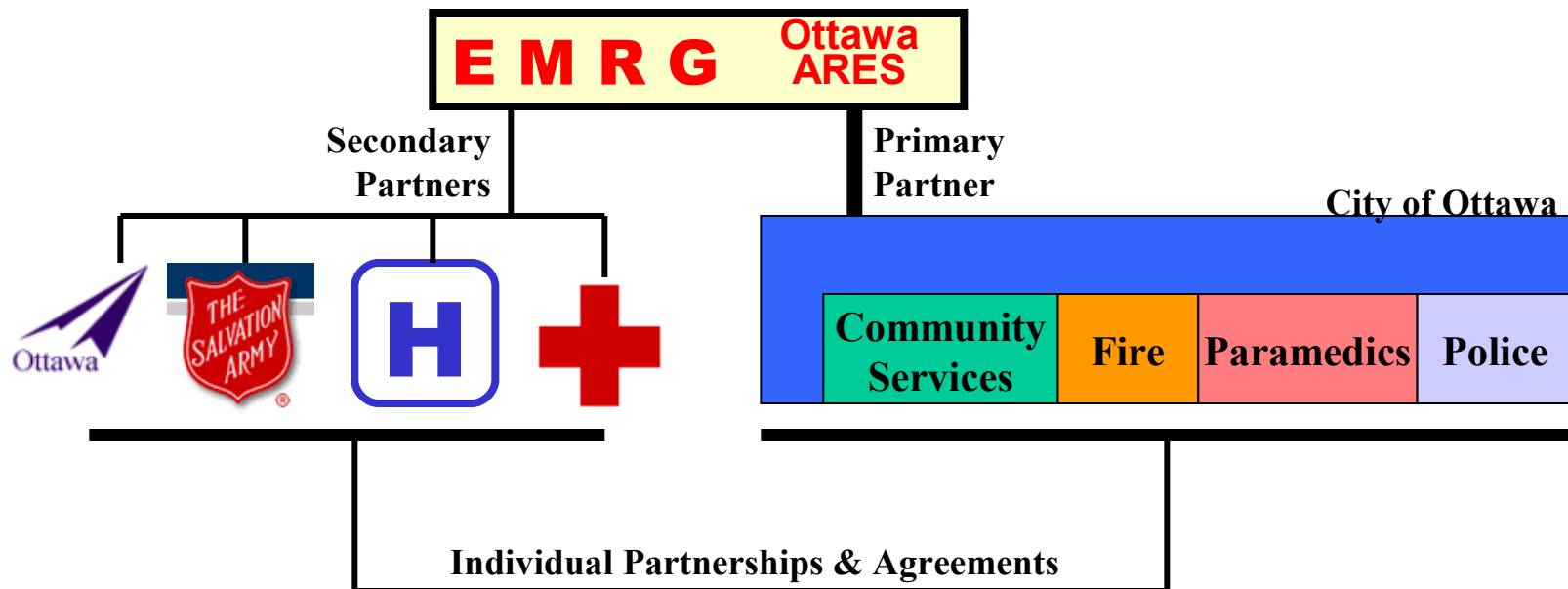
Two Names - One Group - One Purpose

- EMRG has a long history in Ottawa since the 1950s.
- EMRG became part of ARES in 1998.

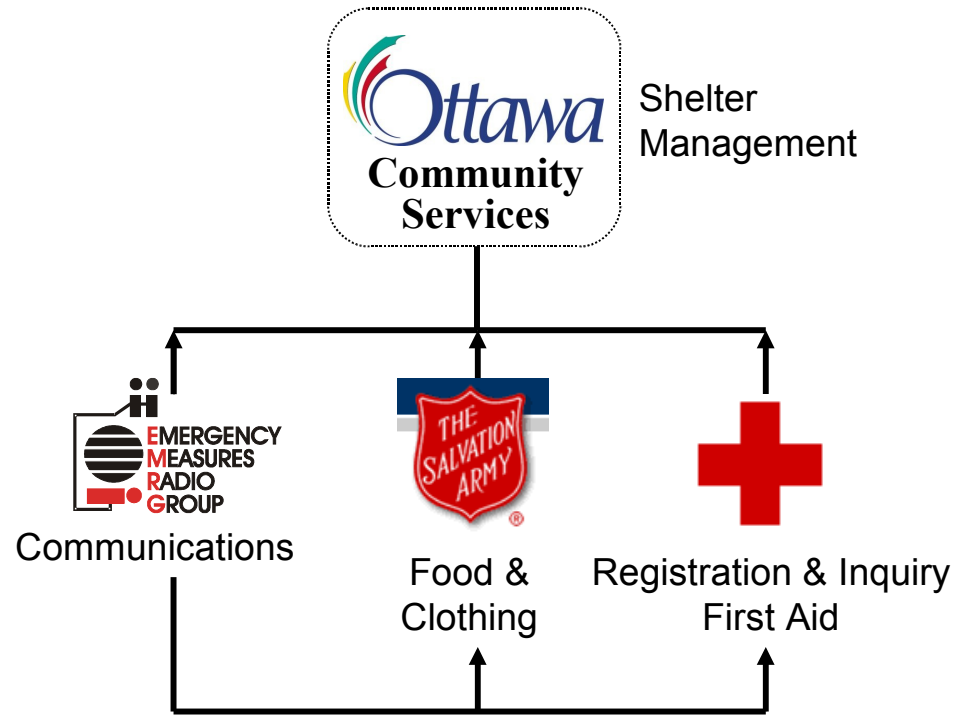
Provide radio communications to support humanitarian response.

- The three main humanitarian response groups in Ottawa;
City of Ottawa Community Services, Ottawa Red Cross, Salvation Army
 - These organizations do not have radio systems, lack capacity on their system or normally rely on phones and cell phones.
- Secondary role to provide a back up radio communications solution, for the Hospitals existing emergency management radio system. (14 sites)
- Not a back up for the City's radio system used by Police, Fire and Paramedics.
 - Will give everything available, if needed, but the capacity required is beyond the limits of what Amateur radio can supply.
 - Can supply specialized solutions to assist and reduce non critical radio traffic.

PARTNERSHIPS



The City of Ottawa, Emergency Measures Unit is the primary partner. In the event that there are insufficient EMRG resources, EMU will assign priorities for EMRG.



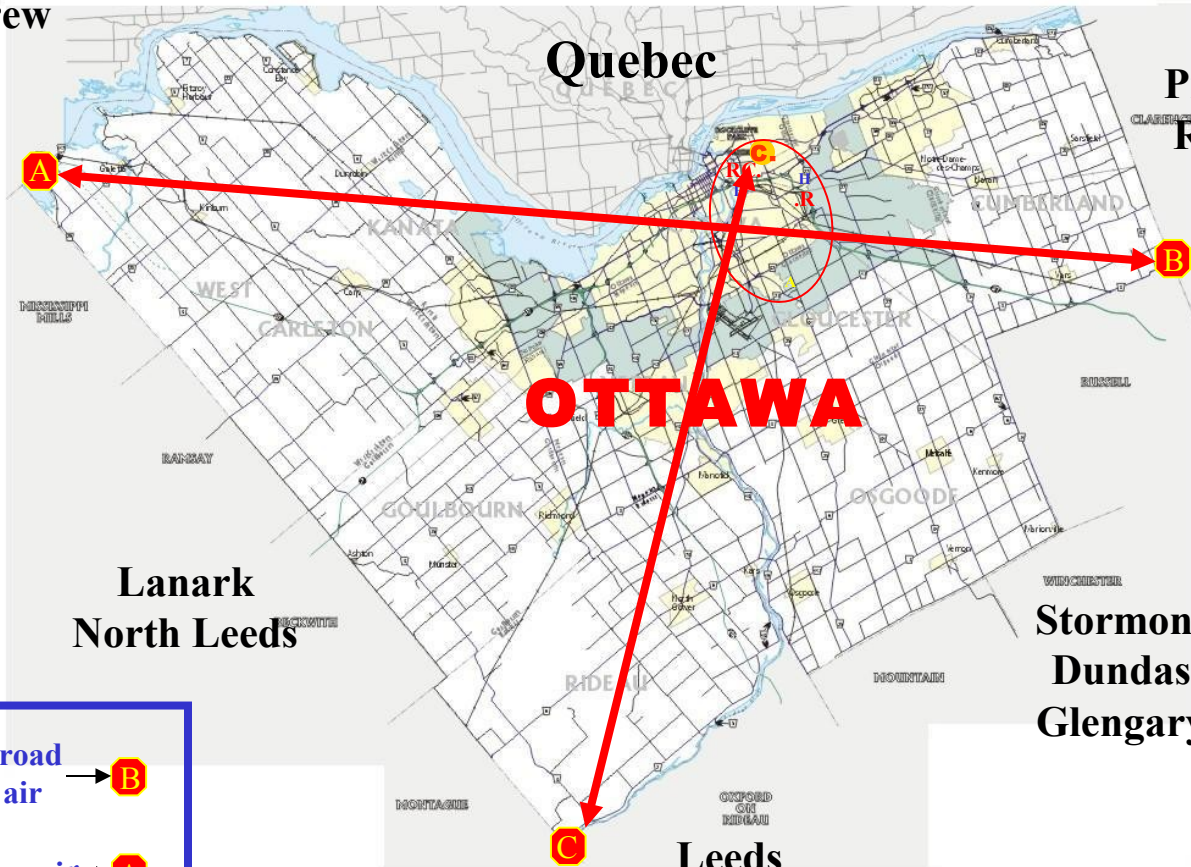
- Shelters in Ottawa are managed by the City of Ottawa, Community Services.
- The Ottawa Red Cross PDA (Personal Disaster Assistance) program is responsible for incidents with up to 50 people displaced, such as a large fire.

OUR AREA

Renfrew

Quebec



Prescott
Russell






Lanark
North Leeds

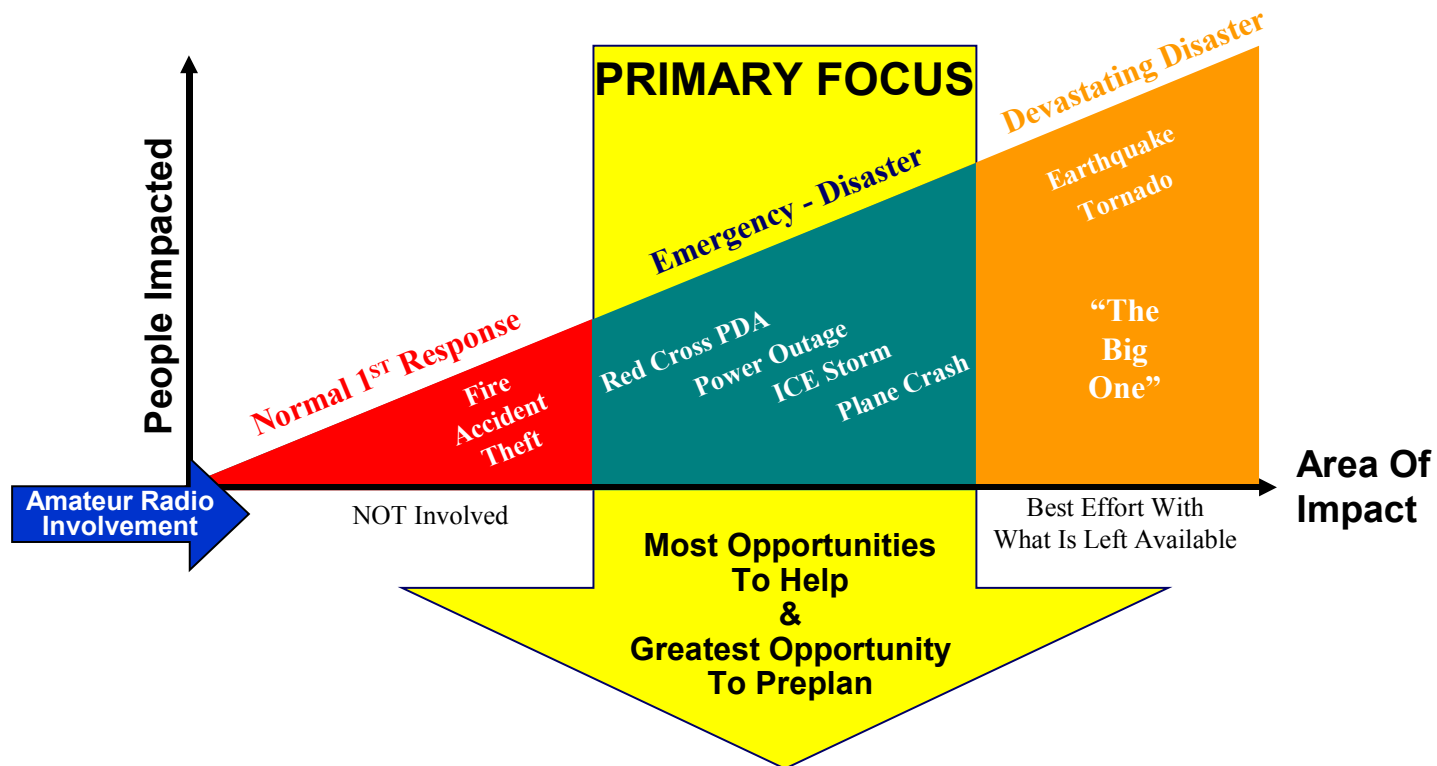
Stormont
Dundas
Glengary

Leeds
Grenville

 ← 110 km by road → 
 85 km by air

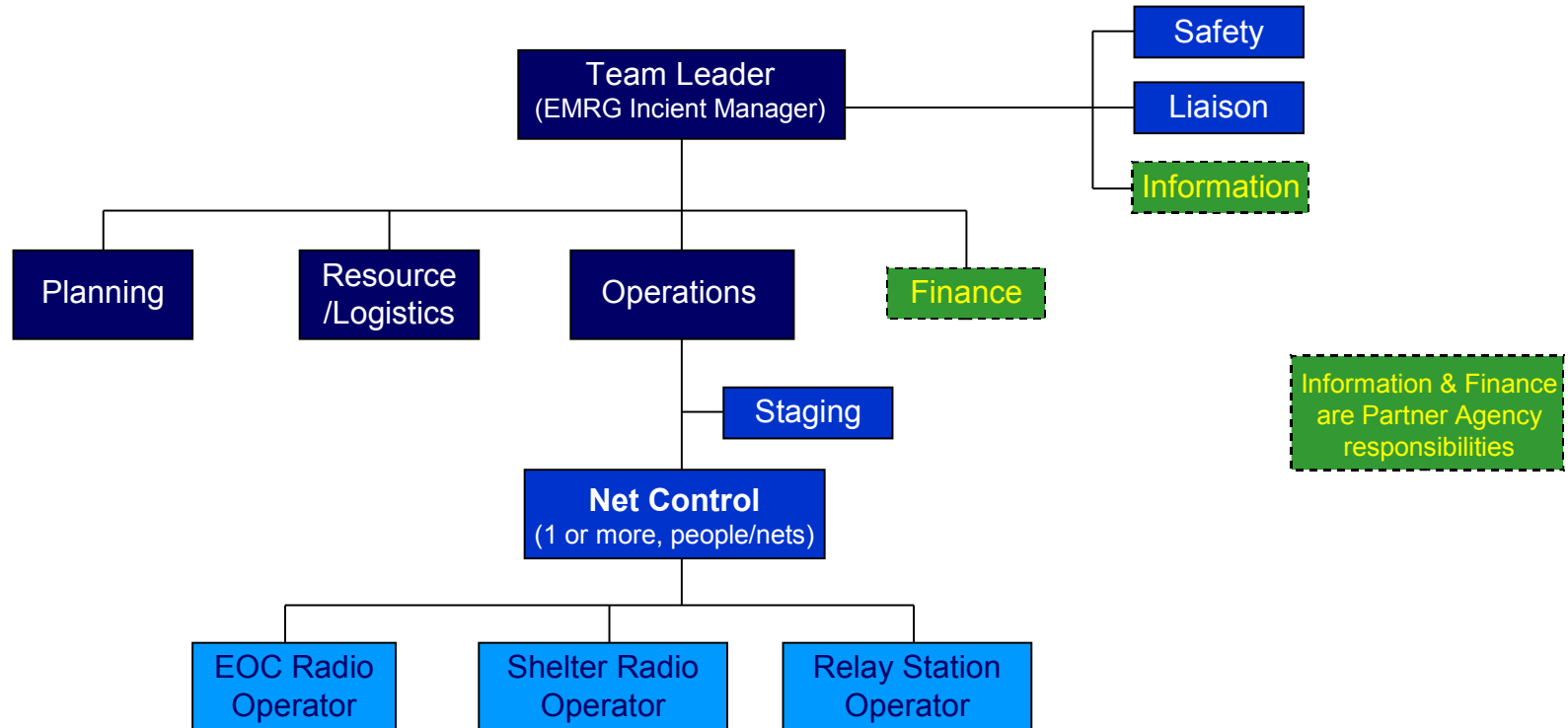
City Hall ← 50 km by air → 
 ← 35 km by air → 
 ← 50 km by air → 

OUR PRIMARY FOCUS

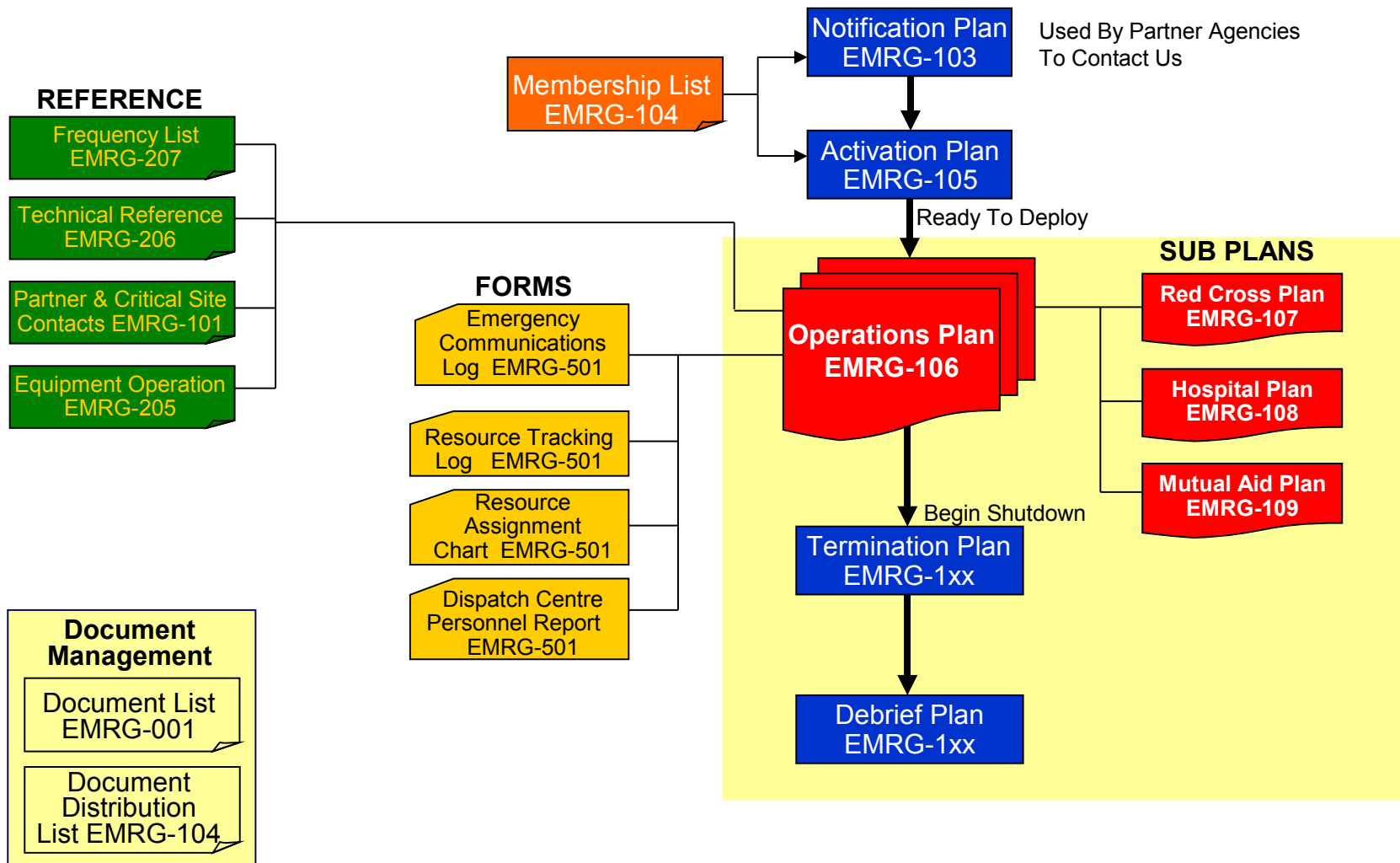


OUR EMERGENCY RESPONSE STRUCTURE

The EMRG Emergency Organization model is based on the Incident Management System (IMS)



EMERGENCY RESPONSE DOCUMENT STRUCTURE



SCHEDULES

General Meetings:

- 3 to 4 per year

Management Team:

- Every third Wednesday of the month

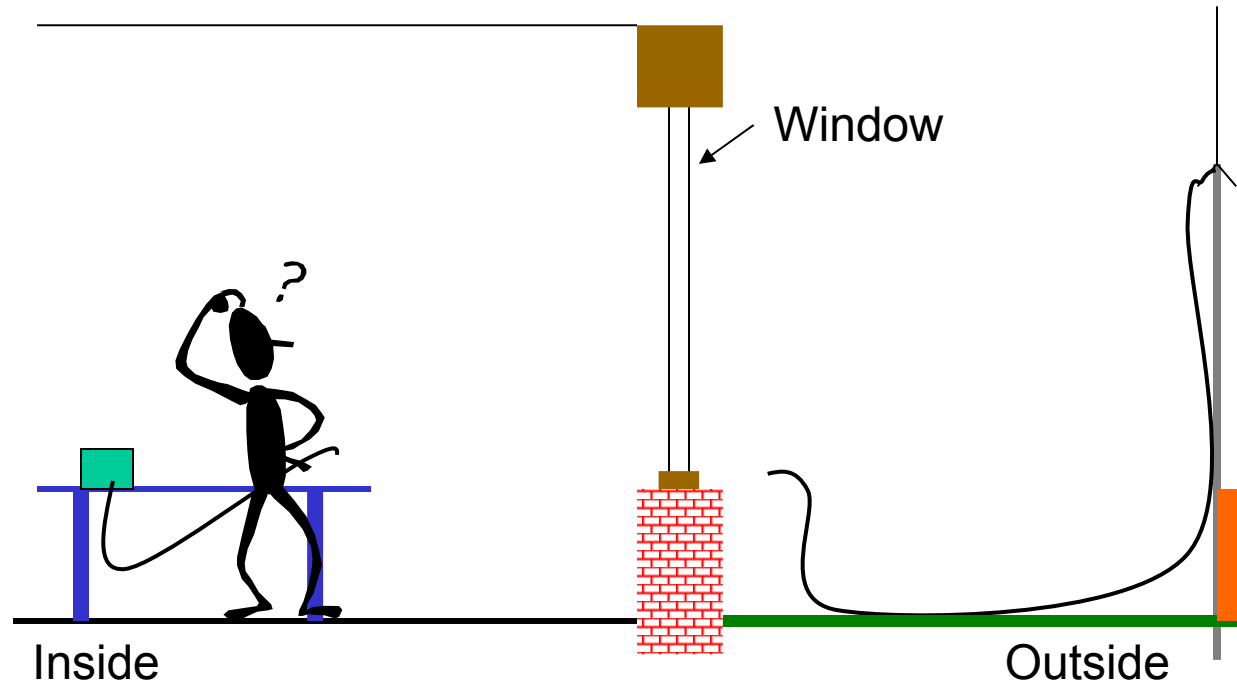
Exercises:

- 3 per year

Training:

- Varies

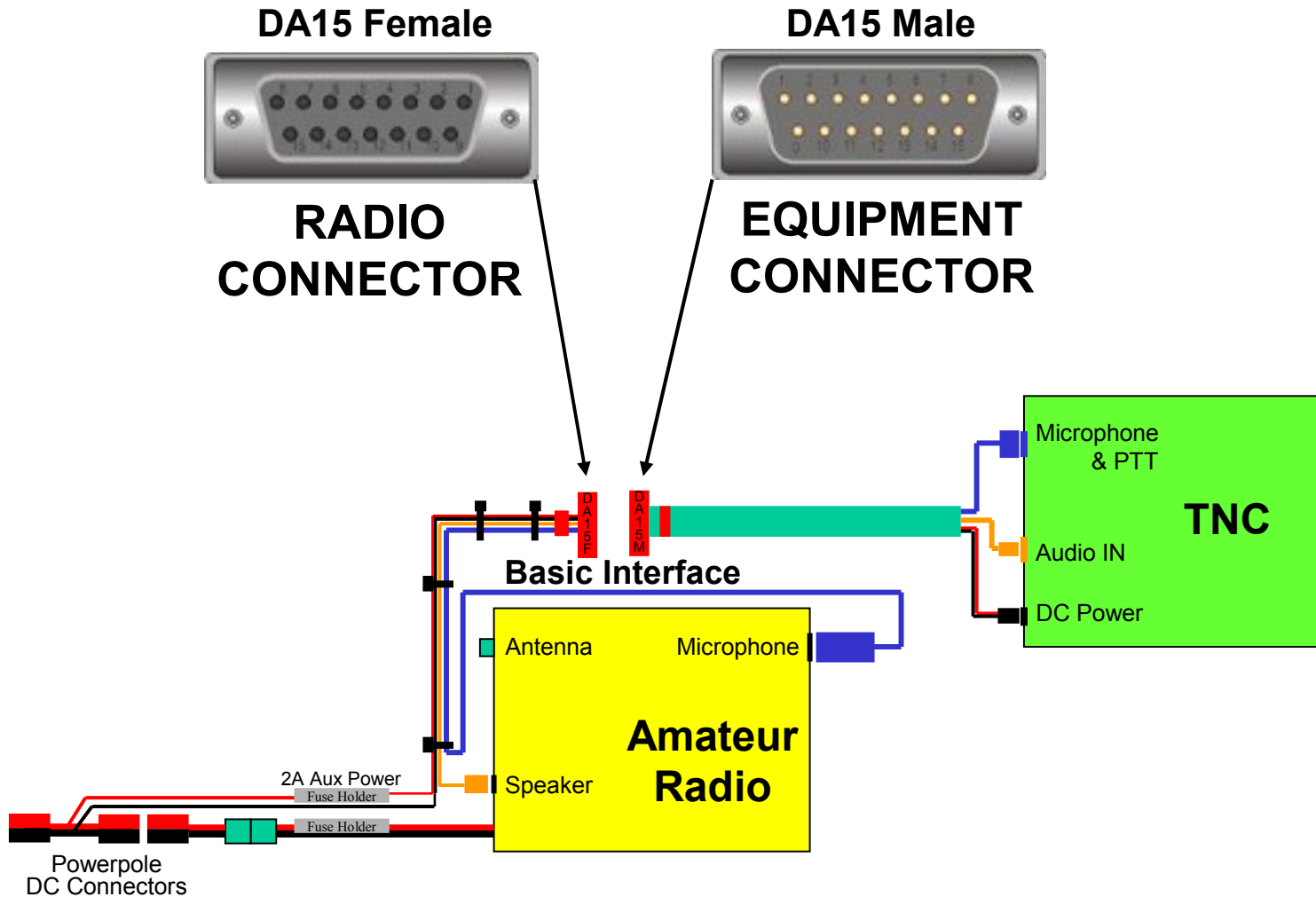
A MAJOR CHALLENGE



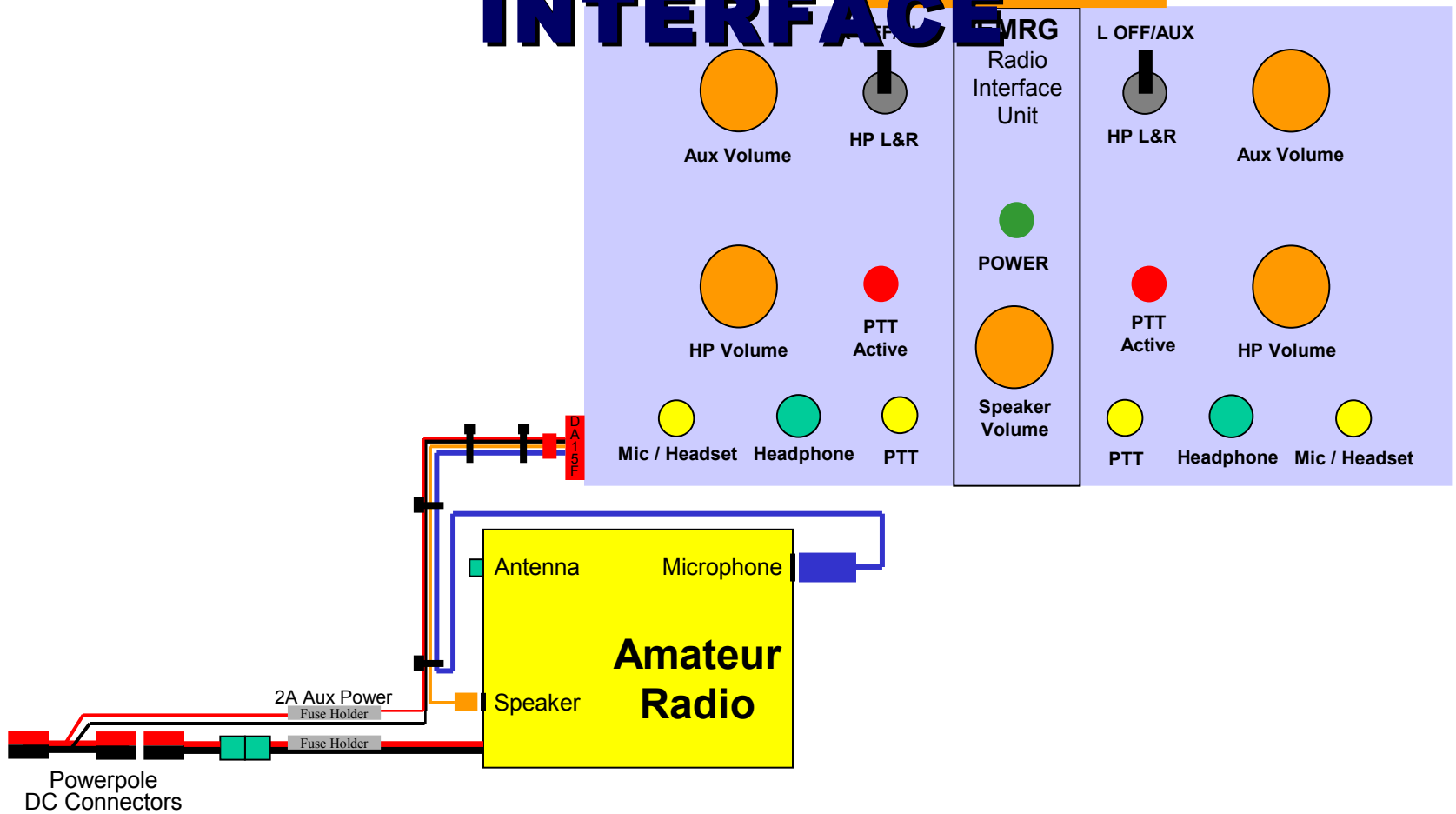
Effective communications requires the radio operator to be co-located with the agency being supported!

- Installing antennas in 300 potential locations is not an option
- Smashing the window is not an option
- Running back and forth to a car is not an option

EMRG STANDARD RADIO INTERFACE



EMRG STANDARD USER INTERFACE



2005 is year 1 of the EMRG 5 year plan to improve communications capabilities.

The three key objectives for this year are;

- 1: Maintain Existing Infrastructure
- 2: Voice Communications City Wide
- 3: Data Communications In Urban core



EQUIPMENT + PARTS + EFFORT



- For several years, collecting surplus equipment such as radios, power supplies, phone patches and controllers.
- The City of Ottawa has provided a one time grant of \$5000 this year, plus \$1000 each year after, to pay for material to make these projects happen
- The projects also provide a unique opportunity for Ottawa amateurs to participate in various technical tasks, to learn new skills and help others learn
- Some projects will focus on building basic skills, such as soldering, connector installation and parts recognition.

SUMMARY OF OBJECTIVES

1) Maintain What We Have

- Exercise, Train & Test

2) Complete Operations Plans

- Document, Train & Test

3) Complete Year 1 Projects

- Document, Build, Train & Test
 - Improve “In Building” Systems
 - City wide voice coverage
 - Urban Core Data communications:

4) Improve Quantity & Capability of Membership

- Motivate existing members and find ways to attract new members
 - Look at making amateurs out of community minded people



EQUIPMENT AVAILABLE



Portable VHF Repeater - 145.110 - MHz

- Transceiver, duplexer, controller, power supply and antenna

Mobile Radios

- Appx 12 - 8 to 16 channel commercial VHF radios

12 VDC Power Supplies

- Appx 12 power supplies with various ratings

Coax Cable

- 50 & 100 foot lengths of RG8

Cross Band Repeaters

- 3 systems made from two commercial radios with controller

Equipment is being wired and packaged as part of the 2005 project plan.

PURPOSE:

- Provide information related to Amateur radio emergency communications, specifically as it relates to the City of Ottawa.

OBJECTIVE:

- Only post information that has been verified.

SHARING:

- Information on the web site is there to be shared. If you use large portions of it, please note the source.

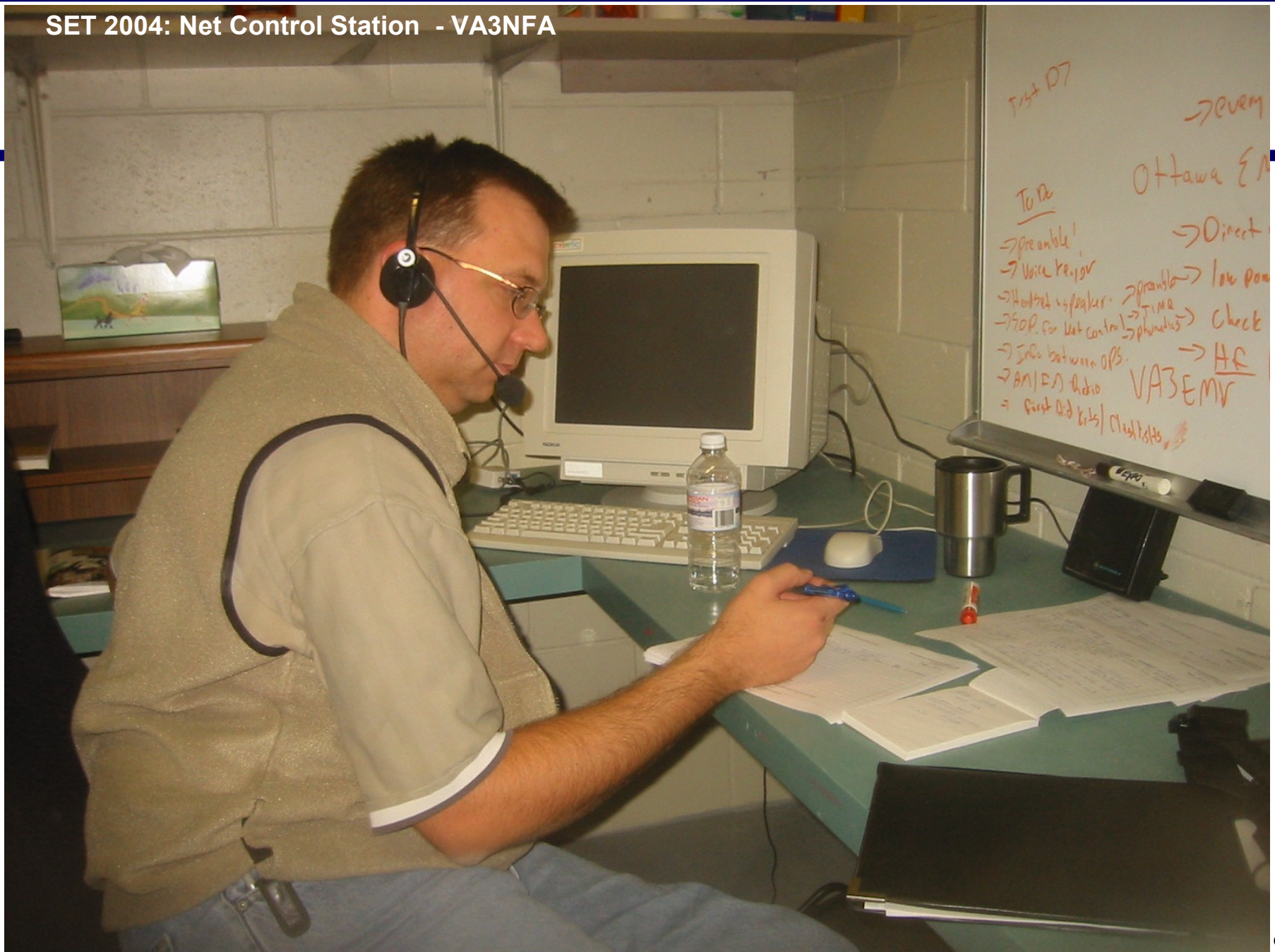


Front View: Radio Cabinet



Back View: Radio Cabinet

EMRG Communications Room at Ottawa Fire Dispatch Centre



Test 107

Ottawa EA

To Do

- Preamble!
- Voice Re-por
- Headset speaker
- 750P for Net Control
- Info between ops
- AM/EM thero
- First Aid kits/Checklists

→ Direct

→ low pow

→ check

→ HA

VA3EMV