



# Safety Organisation and Exercices by the SRAL

**SRAL , SRT**

MyGAREC 13th Nov 2011, Port Dickson

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# Finland

- Area 337 000 km<sup>2</sup>
- Length 1000 km (60...70 °N)
- Population 5.4 Milj
- 6000 hams





# EmComm Finland & SRT

- Stable political & natural environment
  - storms cause electricity cuts, flooding, nuclear accident
- Citizens highly motivated to prepare
- Authorities' co-operation, preparedness and authority-volunteer co-op in good shape (NESAs)
- Gov and municipal authorities willing to give tasks to volunteer organizations (for savings)
- Ham EmComm under national league SRAL
- Now SRAL affiliate SRT (Safety Radio in Finland) established to focus on national AREC



# EmComm activity groups

1. Hams part of local teams in Red Cross-lead consortium Volunteer Rescue Service (“Vapepa”)
  - 20 years history, one task per week on average
  - Alarming by SMS from authority (“112”)
  - Operates on civil crisis sector, fast response
2. New ham Safety (Emergency) Communications “TURVA” prepares for more severe crisis
  - No real cases so far
    - Storms December 2011 cut electricity in several regions
  - Large exercises 1939...1999...2012, 150...1200 participants
  - Self-alarming, self-deploying, slow response
  - Co op with military, too; training



# TURVA Technique

- **Nation-wide** HF-networks (NVIS, 1.8...7 MHz)
- **Regional** V/U/HF networks (50...433 MHz)
- **Municipal** VHF mobile and repeaters
  
- Current digimode: **RFSM-8000 (SSB USB)**
- Under study: Winlink-2000 + WINMOR, BPQ
- Phone mode (SSB USB) always possible
- Lots of experimenting and also non-ham systems



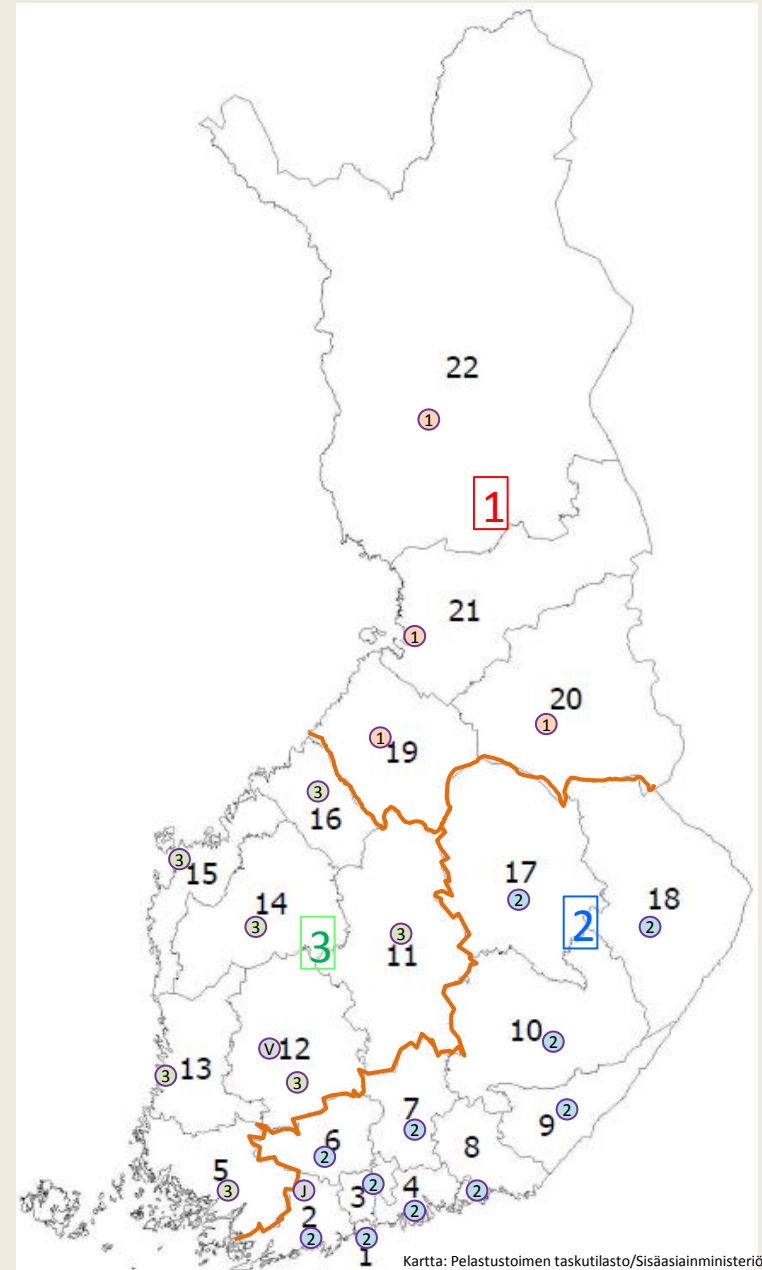
# TURVA-2012 Excercise

- Work unplugged 12 hours
- Test national and regional
  - Networks
  - frequencies and
  - instructions
- Increase co-operation with authorities
- Publicity



Alue	Pelastusalue	Johtoasema	Kutsu
1	Helsinki	Helsinki	OI2ABG
2	Länsi-Uusimaa	Lohja	OH2AAB
3	Keski-Uusimaa	Vantaa	OH2AAV
4	Itä-uusimaa	Porvoo	OH2BIA
5	Varsinais-Suomi	Turku	OH1AA
6	Kanta-Häme	Hämeenlinna	OH3AA
7	Päijät-Häme	Orimattila	OH2W
8	Kymenlaakso	Hamina	OI5AZ
9	Etelä-Karjala	Lappeenranta	OH5XO
10	Etelä-Savo	Mikkeli	OH4AC
11	Keski-Suomi	Jyväskylä	OH6AD
12	Pirkanmaa	Tampere/Orivesi	OH3NE
13	Satakunta	Rauma	OH1AK
14	Etelä-Pohjanmaa	Alajärvi	OH6IJ
15	Pohjanmaa		
16	Keski-Pohjanmaa		
17	Pohjois-Savo		
18	Pohjois-Karjala	Joensuu	OH7AB
19	Jokilaaksot		
20	Kainuu	Kajaani	OH8G
21	Oulu-Koillismaa		
22	Lappi	Rovaniemi	OH9AB

# TURVA-2012 networks





# Example: TURVA-regional network no. 3

VJ = valtakunnan johtoasema  
 TA = Turva-alueen johtoasema  
 PA = pelastusalueen johtoasema  
 S = soluasema  
 E = erityiskohde  
 K = kunta-asema  
 TAP = Winlink-liityntäpiste

