



Rescue and civil defence arragements in Finland

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LEGISLATION AND STRATEGIES



PREPAREDNESS LAW (2011)

- ▶ **Obligates:** government, the state administrative authorities, independent public bodies of the state, other state authorities and state enterprises and local municipal authorities, and other associations of municipalities
- ► **How:** contingency plans, plans to operate in exceptional circumstances, training, reservations of material and human resources
- ▶ What: to ensure the best possible management of tasks even in exceptional circumstances
- ▶ Option: possibility to exceed normal authoritative mandates by government acts

RESCUE LAW AND ACTS (2011)

- rescue authorities are responsible of civil defense tasks (Geneva conventions etc.)
- ▶ building of civil defence shelters continues
- ▶ inspections made by rescue authorities are based on local risk evaluation

THE SECURITY STRATEGY FOR SOCIETY (2010)

▶ the common basis for preparedness and crisis management for **all actors** in society

STRATEGY OF PROTECTING CIVIL POPULATION (2004)

- no lives are lost due lack of sheltering
- ▶ people are primarily protected locally, evacuation comes secondary

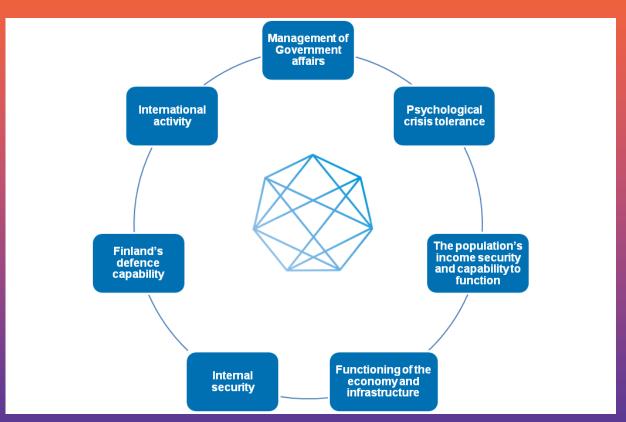


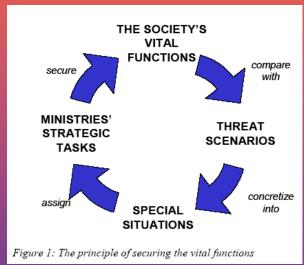


The Security strategy for society 2010



The Secretariat of the Security and Defence Committee (TPAK)





Threat scenarios and disturbances > Desired end state > Strategic tasks > SECURING THE VITAL FUNCTIONS





STRATEGIC TASKS TO MINISTRY OF THE INTERIOR



- International civilian crisis management
- International disaster responce
- Public order and security
- Emergency services and maritime search and rescue
- Emergency response functions
- Border management
- Immigration control
- The management of a major influx of asylum seekers





ROLE OF THE MINISTRY OF THE INTERIOR'S DEPARTMENT FOR RESCUE SERVICES



- The Ministry of the Interior Department for Rescue Services is responsible for steering civil defence planning. The Department issues instructions to the authorities on civil defence preparedness and ensures the required collaboration. At regional level, Regional Administrative Agencies have the same responsibility.
- The Ministry of the Interior and Regional State Administrative Agencies may order civil defence managers and other specialist civil defence personnel to participate in civil defence training. State and municipal officeholders are responsible for carrying out the civil defence duties associated with their posts, preparing for the duties, and for taking part in relevant training.

In normal conditions, civil defence preparedness includes:

- planning and training regarding emergencies
- building shelters
- maintaining command, supervision and alarm systems, and communications links
- making provision for evacuations, rescue operations, first aid, providing the population with the supplies required, and for accident clearance and cleaning





FORMATION OF RESCUE SERVICES



The Ministry of the Interior's Department for Rescue Services

The Rescue Departments of State Provincial Offices



Regional rescue services

other authorities and bodies



Voluntary activities

Each person has responsibilities





STANDARD OF SERVICE IN REGIONAL RESCUE SERVICES



The services are planned on the basis of estimated accident potential by analysing the operating environment and the safety situation.

- How Rescue services prevent accidents and mitigate damage within a rescue service region?
- How are rescue operations organised within a rescue service region?
- What are civil defence arrangements in a rescue service region like?

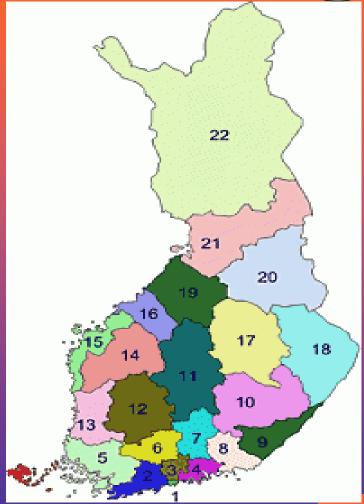




Rescue authority



- 1. Helsinki
- 2. Western Uusimaa
- 3. Central Uusimaa
- 4. Eastern Uusimaa
- 5. Finland Proper
- 6. Tavastia Proper
- 7. Päijänne Tavastia
- 8. Kymenlaakso
- 9. Southern Carelia
- 10. Southern Savonia
- 11. Central Finland
- 12. Pirkanmaa
- 13. Satakunta
- 14. Southern Ostrobothnia
- 15. Ostrobothnia
- 16. Central Ostrobothnia
- 17. Northern Savonia
- 18. Northern Carelia
- 19. River Valleys
- 20. Kainuu
- 21. Oulu-Koillismaa
- 22. Lappland







Helsinki City Rescue Department







HELSINKI CITY RESCUE DEPARTMENT





Simo Weckstén Rescue Commander





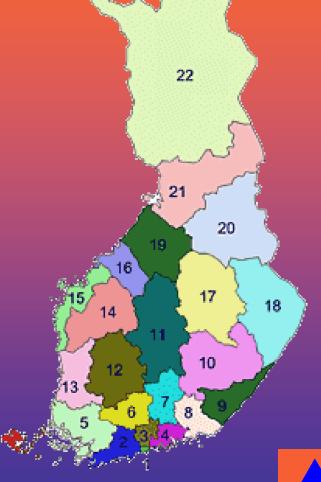
Helsinki City Rescue Department

 one of the 22 regional rescue services departments in Finland

 responsible for fire protection control and inspections in Helsinki

 is in charge of emergency rescue, emergency medical care and ambulance services in Helsinki

 leads civil defence and emergency conditions planning and action in Helsinki





History



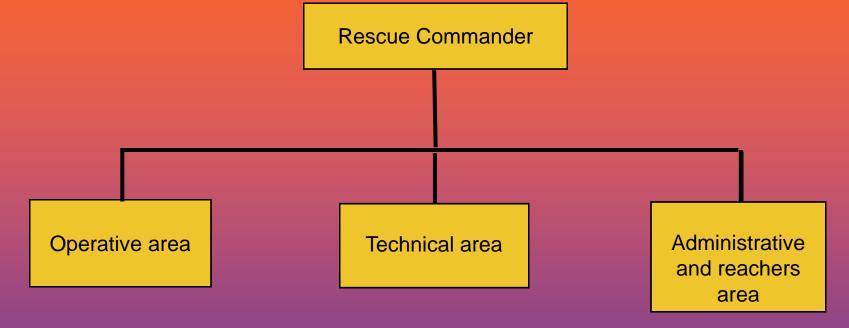
- Helsinki Fire Service Board was found in 1838 and Helsinki Fire Department in 1861
- Helsinki Civil Defence Department was found in 1940
- the departments were united in 1991 to become Helsinki City Rescue Department
- in 2005 Helsinki Emergency Response Centre (ERC) became a part of the nationwide ERC





Organisation









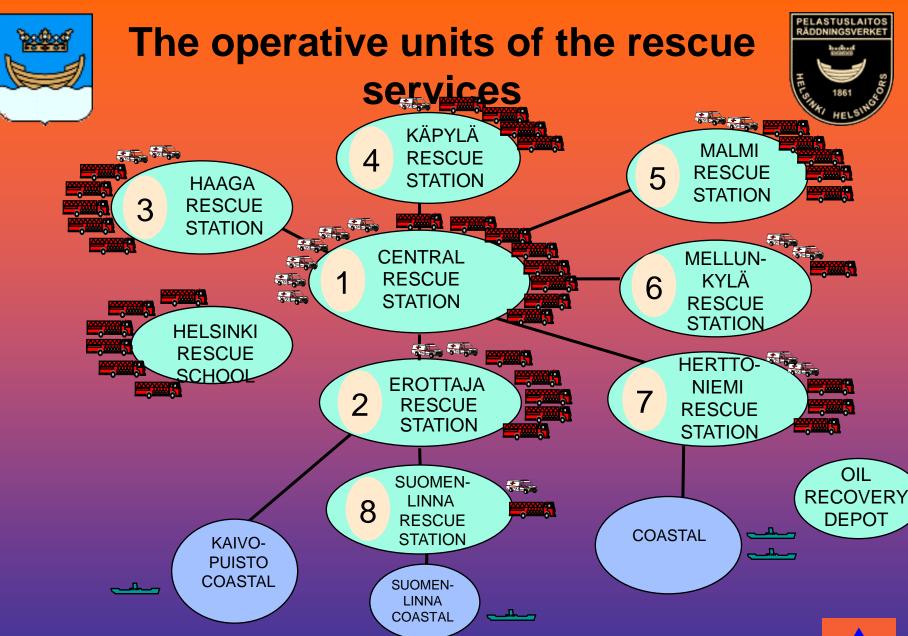
Rescue services



The rescue operations cover all accident categories, such as:

- Fires
- Accidents involving hazardous materials
- Traffic accidents
- Natural disasters
- Subsequent damage prevention
- Water rescue operations, rescue diving
- Human and animal rescue operations
- Oil damages
- Cave-ins
- Medical emergency rescue operations
- Executive assistance for authorities









Finnish Rescue Finland (FRF)



- a special unit prepared to depart for international rescue missions within 6 hours of receiving an assignment. The Ministry of the Interior is responsible for the coordination of FRF activities.
- The Helsinki City Rescue Department was involved in founding the FRF and has been the central authority responsible for its operations since its initiation.

also, the regional rescue departments of

Western Uusimaa, Central
Uusimaa, Tampere and
Southwest Finland and
the Emergency Services College
are involved in the operations.





The Helsinki School of Francisco and Rescue Services







The Helsinki Rescue School



- Qualification training (Fire fighter diploma)
- Civil defence training for Helsinki city personnel
- Continuing studies for Helsinki city rescue

department personnel

- Short-term courses
- Expertise assignments
- Material production







Fire fighter diploma



- Emergency Services College approves the curriculum
- at least 90 study points (60 study weeks)
- additional "Helsinki-extra" 24 study points (16 study weeks)
- paid on-the-job training as a fireman 2 months + 2 months
- a fireman with multiskills is reached by a large amount of practical training









Fire fighter diploma



FIRE FIGHTING SKILLS

EMERGECY SERVICES SKILLS

EMERGENCY MEDICAL SERVICES SKILLS

CIVIL DEFENCE
SKILLS FOR PEACE- AND WARTIME TASKS





Accident prevention









Accident prevention



- to monitor trends indicative of accident potential, the number of accidents and their causes
- to take action to prevent accidents on the basis of conclusions made on the trends and, if necessary, submit proposals to other authorities
- to educate and advice people to identify various causes of danger, prevent accidents and take action in the event of an accident
- collaboration with other authorities and the organizations is crucial





Accident prevention tools



- Risk analysis
- Planner counselling (structural fire safety)
- Fire safety inspections, rescue plans
- Accident investigations
- Safety training & guidance
- Chimney sweeping





Risk analysis



- The standard of service provided by the rescue services must meet the accident potential, Rescue Act 12§.
- risk identification of the population, construction and environment in the area
- evaluation of the effectiveness of the risk management methods
- basis of service standard decision and long-term activity planning





Civil defence









Civil defence tools



- Public warning and information
- Civil defence shelters
- Emergency services
- Evacuation













Helsinki City Civil defense shelters 1.1.2008











The number of shelters

Seats

Private shelters

6200

689 000

Public and jointly owned shelters

43

162 000

Underground stations

6

20 000

Civil defence organisation shelters

14

2 000

Total

873 000





Rescue Service Commission



LORD MAYOR (CHAIRMAN)

RESCUE COMMANDER
DIRECTOR OF RISK MANAGEMENT

MANAGING DIRECTOR,
PUBLIC WORKS DEPARTMENT

DIRECTOR, PORT OF HELSINKI

DEPUTY MAYOR FOR PUBLIC WORK (DEPUTY CHAIRMAN)

MANAGING DIRECTOR, SOCIAL SERVICES DEPARTMENT

MANAGING DIRECTOR, PUBLIC TRANSPORT

MANAGING DIRECTOR, HEALTH DEPARTMENT

MANAGING DIRECTOR, HELSINGKI ENERGY

HEAD OF THE SURGERY

HOSPITAL DISTRICT OF HELSINKI

COMMANDER OF MILITARY DISTRICT
COMMANDER OF COAST GUARD

MANAGING DIRECTOR, PALMIA CATERING

MANAGING DIRECTOR, HELSINKI WATER

DIRECTOR GENERAL OF THE ENVIRONMENT CENTRE

POLICE COMMANDER

DISTRICT OFFICER FINNISH RED CROSS









HELSINKI CITY
RESCUE SERVICE COMMISSION

PLANNING AND TRAINING COMMITTEE

RESCUE
DEPARTMENT:
Introductions and

RESCUE SERVICE ORGANISATIONS AND SUPPORTIVE AGENCIES UNCTIONS





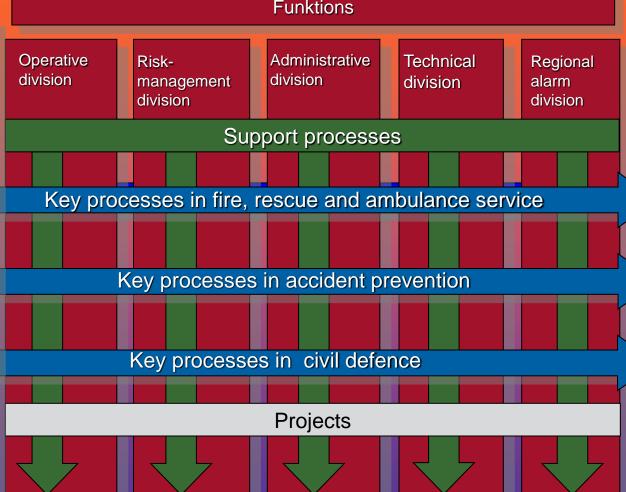
HELSINKI RESCUE DEPARTMENT



Customers **Owners** Partners

Funktions

Customers **Owners Partners**





Staff

ff Alarms *year 2011*

Operative division 508
Technical division 99
Risk management division 65
Administrative division 15

Total 687

Fire alarms 3 965 Rescue duties

and other duties 4 383

Emergency

ambulance services 48 331

Total 56 679



Budget 2011

Income10,3 milj. €Expenses49,5 milj. €Investments19,3 milj. €

Motor vehicles

- on land 130

- at sea 4

Real estates under Rescue

Department control



RISK MANAGEMENT UNIT



- Provides fire prevention functions
- enhancing the safe community planning, construction and use of buildings
- collaboration between public authorities
- enhancing the careful use of fire and dangerous chemicals
- supervision
- education and advice
- chimney sweeping



Fire prevention functions



- Fire inspections
- Other monitoring tasks and necessary fire prevention actions
 - Official statements and decisions
 - Counsil and guidance regarding structural fire safety
 - Monitoring and inspection of demanded documents (such as rescue planning documents)
- Monitoring and inspections of dangerous chemicals and other hazardous materials
- Administrative coersion
- Safety communications





Fire prevention functions



- Fire inspections are fix-termed
- Inspections are conducted as audits
- During inspections, general safety measures and environment are beeing evaluated:
 - Leading of safety and security measures
 - General risk management
 - Documents regarding safety and security
 - Buildings structural safety
 - Technical systems regarding fire safety
 - Safety communication inside organisation



Auditive fire inspections (Helsinki City Fire Department)



- Scale from 0-4
- Grade 2 meets the minimun requirements set by national law
- Grades 3 and 4 lack of minimum requirements set by national law
- Grades 0 -1 have exeptional low risk



Focus



- Focus is on targets which don't meet minimum standards set by law
 - 3- and 4-risk class targets: 1003



Target based risk value



Risk value is based on auditive inspection models confirmed criteria:

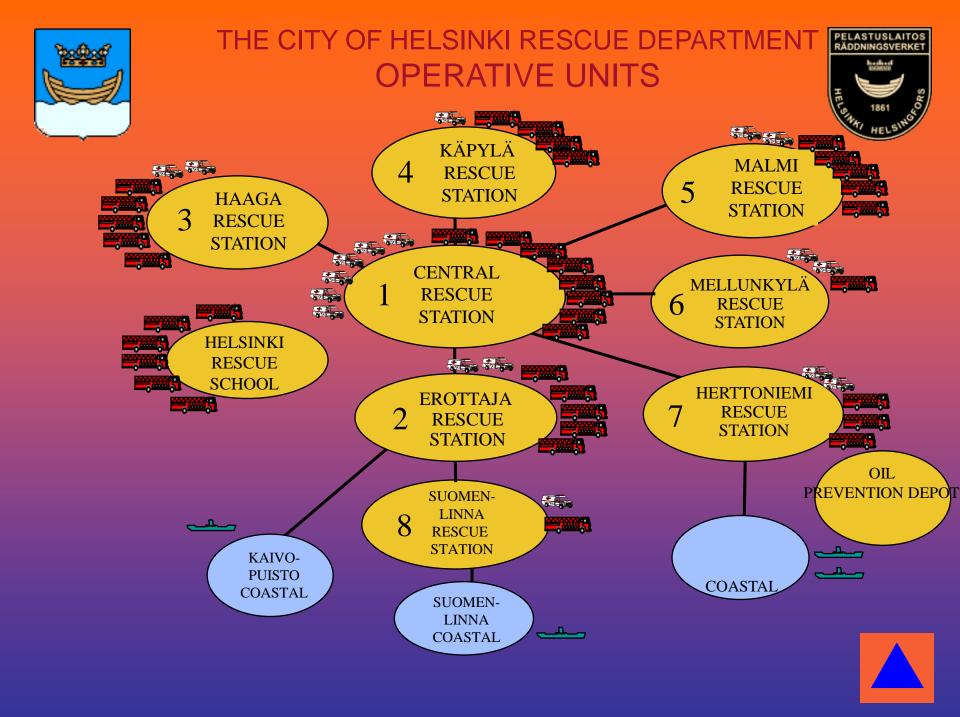
- Leading of safety and security measures
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Target based risk value



- Risk value grade purpose of use defines durations for targets inspections and monitoring
- Targets can improve their grade by actively improving pointed girevances
- -> affects targets inspection and monitoring duration





RESCUE SCHOOL THE CITY OF HELSIN



THE BASIC TRAINING FOR ALL TRAINEES

FIRE & RESCUEMAN SKILLS

ACCIDENT PREVENTION SKILLS

MEDICAL RESCUE SERVICE SKILLS

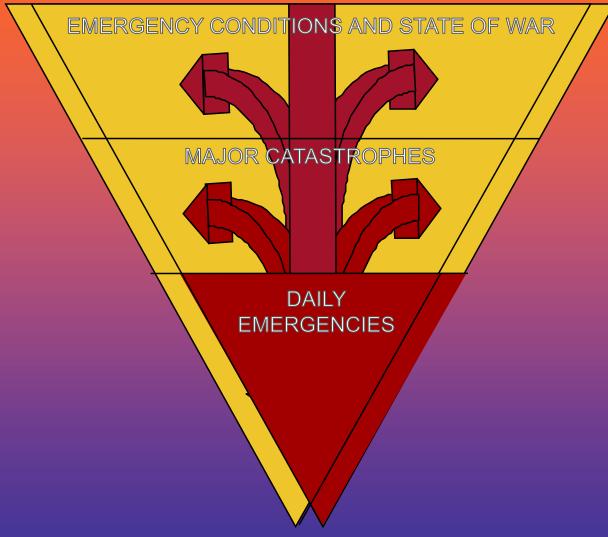
CIVIL DEFENCE
SKILLS FOR PEACE- AND WARTIME TASKS





THE MISSION OF THE UNITED RESCUE DEPARTMENT









RESCUE SERVICE COMMISSION HELSINKI ADMINISTRATION



RESCUE SERVICE COMMISSION CHAIR LORD MAYOR

Planning commitee

RESCUE DEPARTMENT

Presentation &

secretarial

RESCUE SERVICE ORGANIZATIONS AND SUPPORTING AGENCIES UNCTIONS





RESCUE SERVICE COMMISSION

- LORD MAYOR (CHAIRMAN)
- RAKENNUS- JA YMPÄRISTÖTOINTA JOHTAVA APUL.KAUPUNGINJOHTAJA (VARAPUHEENJOHT.)
- RESCUE COMMANDER
- SOSIAALIJOHTAJA
- TERVEYSKESKUS, TOIMITUSJOHTAJA
- KAUPUNGININSINÖÖRI
- STARA, TOIMITUSJOHTAJA
- HKL, TOIMITUSJOHTAJA
- PALMIA, TOIMITUSJOHTAJA
- HELSINGIN ENERGIA, TOIMITUSJOHTAJA
- YMPÄRISTÖJOHTAJA
- HELSINGIN SATAMA, TOIMITUSJOHTAJA
- HELSINGIN SEUDUN YMPÄRISTÖPALVELUT, VESI, TOIMIALAJOHTAJA
- HELSINGIN SEUDUN LIIKENNE KUNTAYHTYMÄ (HSL), TOIMITUSJOHTAJA

- **•POLICE COMMANDER**
- HUS, OPERATIIVISEN TULOSYKSIKÖN JOHTAJA
- MILITAR COMMNDER OF SOUTH FINLAND

REGION

- KAARTIN JÄÄKÄRIRYKMENTIN KOMENTAJA
- COMMANDER OF COAST GUARD
- SUOMENLAHDEN MERIPUOLUSTUSALUEEN KOMENTAJA
- SUOMEN PUNAISEN RISTIN HELSINGIN JA UUDENMAAN PIIRIN TOIMINNANJOHTAJA

PYSYVÄT ASIANTUNTIJAT:

- HALLINTOKESKUS, VALMIUS- JA TURVALLISUUSOSASTON OSASTOPÄÄLLIKKÖ
- KAUPUNGIN VALMIUSPÄÄLLIKKÖ
- **DIRECTOR OF RISK MANAGEMENT**

NEUVOTTELUKUNNAN SIHTEERINÄ TOIMII PELASTUSLAITOKSEN PELASTUSJOHTAJA JA ESIKUNTANA PELASTUSLAITOS



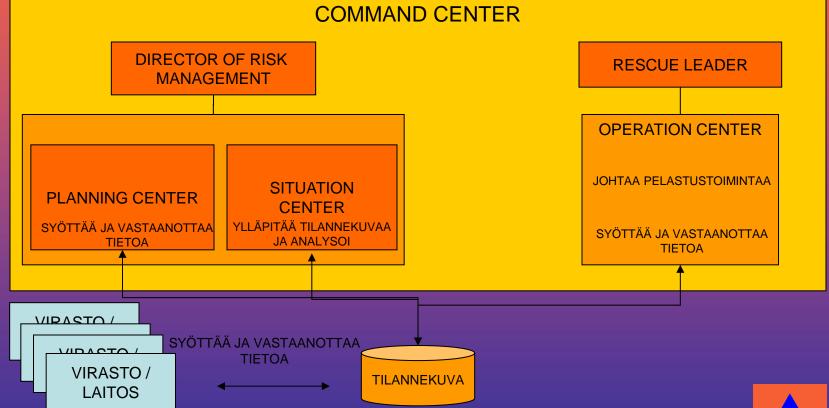
PELASTUSLAITO RÄDDNINGSVERKE



COMMAND ORGANISATION



CRISES MANAGEMENT
OF THE CITY
RESCUE COMMANDER

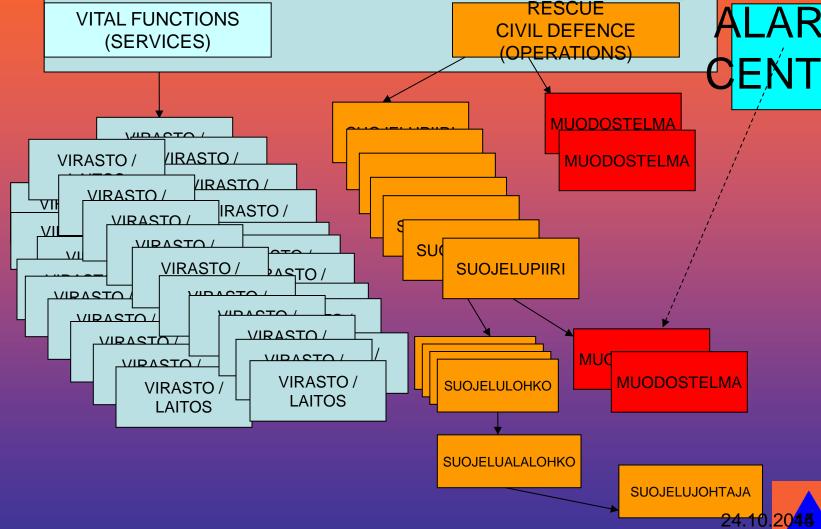






COMMAND CENTER



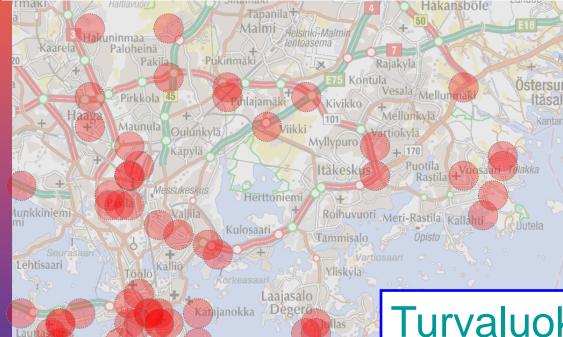




RISK ANALYSE FOR EXEPTIONAL SITUATIONS (WAR)



Vaikutus	Rakennusten	Kuolleet	Vakavasti	Lievästi	Ei vahinkoa
rakennukseen	lukumäärä		loukkaantuneet	loukkaantuneet	
Sortuma	45	393	793	793	0
Pieni sortuma	91	294	909	909	909
Rikkoutunut ikkuna	178	0	2093	4243	14959
Yhteensä	314	687	3795	5945	15868



Suomenlinna

Santahamina

Turvaluokiteltu (TLL IV)

Julkl (621/1999)

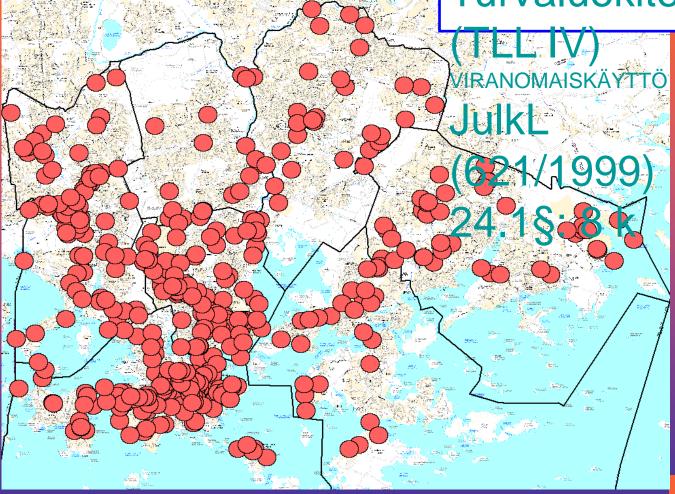


POSSIBLE TARKETS IN HELSINKI

(function vital)











HELSINKI CITY CIVIL DEFENCE SHELTER SITUATION



SHELTERS PLACES

1.1.2012

Private shelters	6 220	685 000
Public and jointly owned shelters	43	162 000
Underground Stations	6	20 000
Civil Defence Organization shelters	14	2 000
Total		869 000



STRUCTURAL CIVIL DEFENCE



In new development projects mainly used for living, property owners must include a civil defence shelter in buildings at least 1200 m2. For industrial-, production-, warehouse- and public buildings a shelter must be included if 1500m2 is exceeded.

- Civil defence shelters must afford protection from structural collapse, radiation, gases and conventional weapons.
- Finland has civil defence shelters for nearly 3.4 million people. They are located in residential and public buildings.
- There is about 850 000 shelter places at Helsinki area. Annual increase in Helsinki is about 100 shelters; places for 10 000 people





BUILDING OF PUBLIC CD ROCK SHELTERS IN HELSINKI



- There is about 50 public rock shelters in Helsinki build between 1939-2002 offering places for 180 000 people
- Merihaka shelter at downtown Helsinki opened 2003
- Under construction: a part of new metro station in west-Helsinki
- Commitment: East-Centrum shelter



















LATEST TECHNICAL IMPROVEMENTS IN HELSINKI





CemPro 100 hand held gas detectors



HazMatID solid material analyser



personal radiation dose meters



air flow monitoring to subway tunnels



decontamination line for chemical accidents





QUESTIONS?









PUBLIC CIVIL DEFENCE ROCK SHELTERS IN DAILY USE IN HELSINKI



