



# Estonian Civil Protection and Rescue Service

Case study for Natech

29. November 2022

# Natural disasters in Estonia

In Estonia there are some natural disasters that can cause direct damage:

- ✓ Long rainy periods, storms, spring melt (snowy winter) can cause large water level rise and it can cause **flooding**
- ✓ **Storms** can cause damages to buildings and power lines
  - ✓ Average maximum wind speed: below 40 m/s
  - ✓ Average wind speed: below 5 m/s
- ✓ **Frosts** can cause major damage to several communication systems (central heating, water supply, electricity)
  - ✓ Average absolute minimum air temperature:  $-36,7^{\circ}\text{C}$
  - ✓ Average air temperature:  $6,4^{\circ}\text{C}$
- ✓ **Large amount of snow** that has fallen at once starts can cause traffic stops



# The Land Board – Web Maps page



Üleujutusohuga alad

**Flood Hazard Areas**



Ohtlikud käitised, veevarustus,  
veeohutus

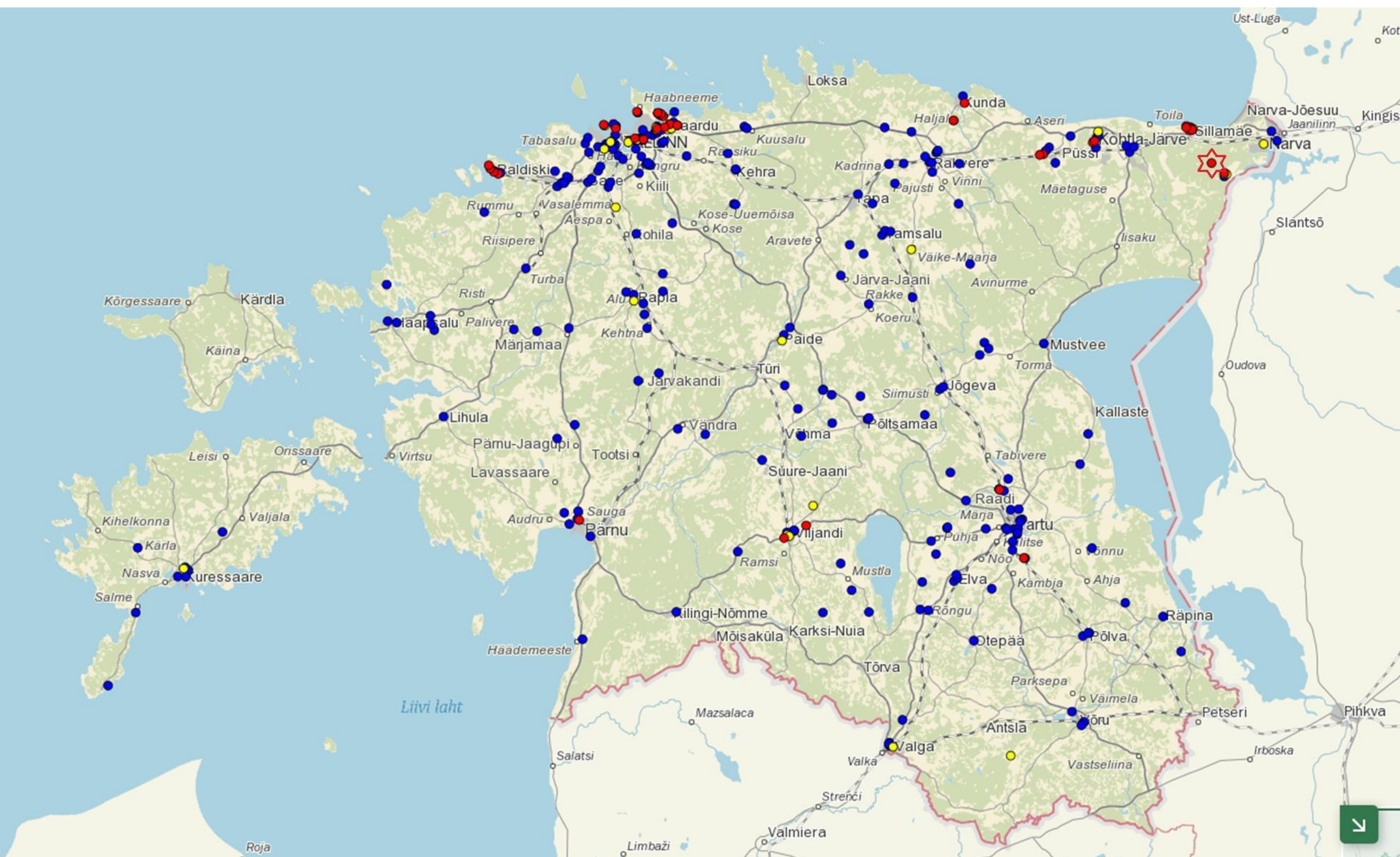
**Dangerous establishments**

- ✓ It is possible find different thematic map layers on Web Maps page of The Land Board.
- ✓ The data owners are different authorities.
- ✓ The data has been made public through spatial data.

[Link to Web Maps page](#)



# Map application – Dangerous establishments



## Type of establishments:

✓ Red: upper tier

✓ Yellow: lower tier

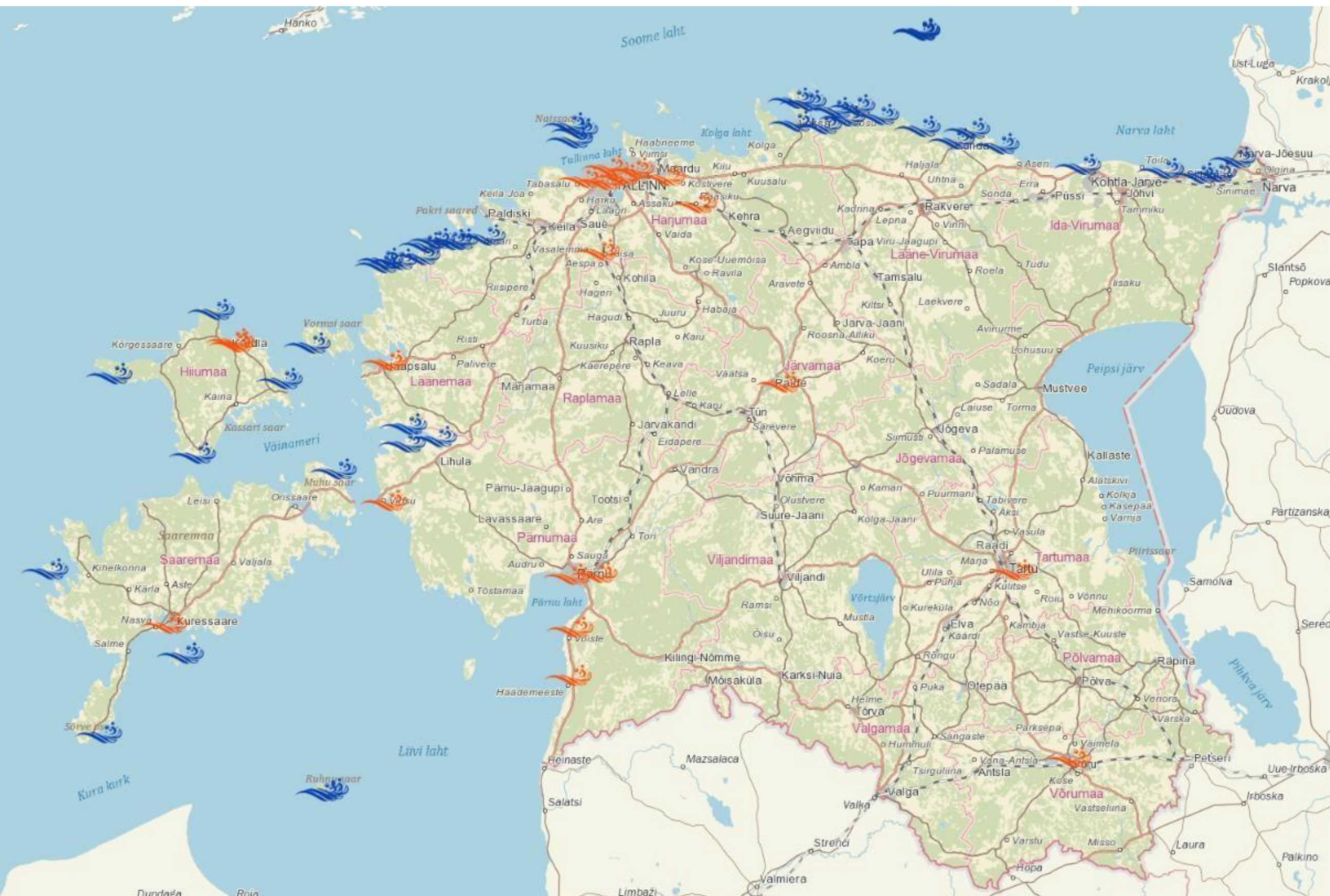
✓ Blue: dangerous

☆ transboundary effect

[Link to map application](#)



# Map application – Flood Hazard Areas



Type of areas:

- ✓ Blue: seaboard
- ✓ Orange: risk areas

[Link to map application](#)



# Flooding areas and risk of flooding for sites



- ✓ Flooding must be considered when risk-assessment is done
- ✓ Comparing site location and flooding areas can find how big is flooding risk
- ✓ Useful for sites, authorities, spatial planners, local people



# Flooding areas and risk of flooding for sites



# Thank you



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