

Main 3 Tasks of the Fire and Rescue Department

Priešgaisrinės apsaugos ir gelbėjimo departamentas (Lithuania)

1



Firefighting & Rescue Operations

24/7 operational readiness, firefighting, rescue of people and property, and response to emergencies.

2



Fire Prevention & Fire Safety Supervision

Fire safety supervision, fire investigation, prevention activities and public awareness.

3



Civil Protection & Emergency Management

Emergency preparedness, public warning, coordination of civil protection activities and participation in emergency response and management.



Satellite-based Services in Civil Protection, Fire and Rescue Activities

How satellite capabilities support operations



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"..find... | grep "satellite"
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1



1. Situation Awareness

Data / information collection, decision making

2



2. Communications

Reliable connectivity for field teams and coordination

3



3. Information Dissemination

Alerts, warnings and actionable information



Situation Awareness: Data and Information Collection, Analysis and Decision-Making

The Situation Coordination Division (SCD) is the Fire and Rescue Department's central hub for data and information collection, analysis, decision-making, and coordination of response activities.

SCD works closely with:

112 Emergency
Call Centre

National Crisis
Management Centre

Ministry of
the Interior

Other governmental
institutions

Municipal operational
centres

ERCC

Satellite, weather, GIS and incident data
feed operational awareness

SCD and ERCC Cooperation

Situation Coordination Division and Emergency Response Coordination Centre: from European monitoring to national response decisions

ERCC products & tools

- Copernicus EMS satellite mapping
- EFAS / GloFAS flood outlooks
- EFFIS / GWIS wildfire monitoring
- ARISTOTLE multi-hazard advice

SCD national hub

- Integrates ERCC products with national data
- Builds a shared operational picture
- Supports analysis and decision-making
- Coordinates response activities

Operational output

- Situation and forecast maps
- Preparedness and response options
- Requests for assistance when needed
- Public warnings and recommendations

Relevant ERCC services for civil protection operations

1 Floods & severe weather

EFAS / GloFAS, GDACS and other early-warning tools support monitoring and preparedness.

2 Wildfires & drought

EFFIS / GWIS and drought observatories provide forecasts, near-real-time information and risk indicators.

3 Scientific analysis

ARISTOTLE provides 24/7 multi-hazard monitoring, scientific assessment and operational advice.

Cooperation value: shared maps + forecasts + expert analysis → faster decisions and better coordinated response.

Communications

Resilient, multi-layered connectivity for coordination and field operations

FRD Operations Centre

Uses several communication technologies in daily operations

OPERATIONAL COMMUNICATION LAYERS

Wired

Mobile

TETRA radio

BACKUP SATELLITE CHANNELS

Iridium

Eutelsat

Lithuanian Emergency Response Team (LERT)

Boots-on-the-ground communications during deployed operations

SATELLITE NETWORKS AND EQUIPMENT USED IN THE FIELD

Iridium

Inmarsat

SpaceX

Primary, backup and field communications are combined to preserve coordination when terrestrial infrastructure is degraded.

Information Dissemination

From institutional decisions to multi-channel public warning

PUBLIC WARNING / INFORMATION INITIATORS

National Crisis
Management Centre

Lithuanian
Armed Forces

Other institutions

FRD TECHNICAL ROLE

FRD is responsible for the technical implementation of public warning and information dissemination.

DISSEMINATION CHANNELS

Cell Broadcast

Siren network

TV & radio
(national broadcaster)

LT72 website &
LT72 mobile app

Public media

Social media

One warning decision can be distributed through several channels to maximise public reach and resilience.



Sirens Network

Current communications and the future Galileo-based resilience option

CURRENT OPERATING MODEL



Warning siren



Control cabinet

+ The field layer combines the siren itself and its local control equipment.

CURRENT COMMUNICATION CHANNELS

1. Mobile operator networks

2. State Critical Communications Network

FUTURE / THIRD COMMUNICATION CHANNEL

FRD is familiar with the AWARE project and, together with partners, is actively contributing to enabling an additional third communication channel: Galileo Early Warning Satellite Service (EWSS).

Multichannel Public Warning System

Planned procurement and deployment by the end of 2027

FRD PLAN

FRD plans to procure and deploy a Multichannel Public Warning System by the end of 2027.

SYSTEM HUB

Integrated warning and information distribution layer

ADDITIONAL SATELLITE LAYER

Galileo EWSS integration

adds resilience to the public warning and information ecosystem

CHANNELS INTEGRATED BY THE MULTICHANNEL SYSTEM

Cell Broadcast

Sirens network

TV and radio
(national broadcaster)

LT72 website &
LT72 mobile app

Public media

Social media

Open API

One platform — multiple channels — higher probability that the right warning reaches the public.

Galileo Early Warning Satellite Service (EWSS) integration is planned as an additional layer within the overall public warning and information capability.

Thank you for your attention

Q&A

Questions & Discussion

● ————— ●
Satellite-based services • resilient communications • public warning

LT72

Public preparedness and warning information

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