MODULE PRESENTATION

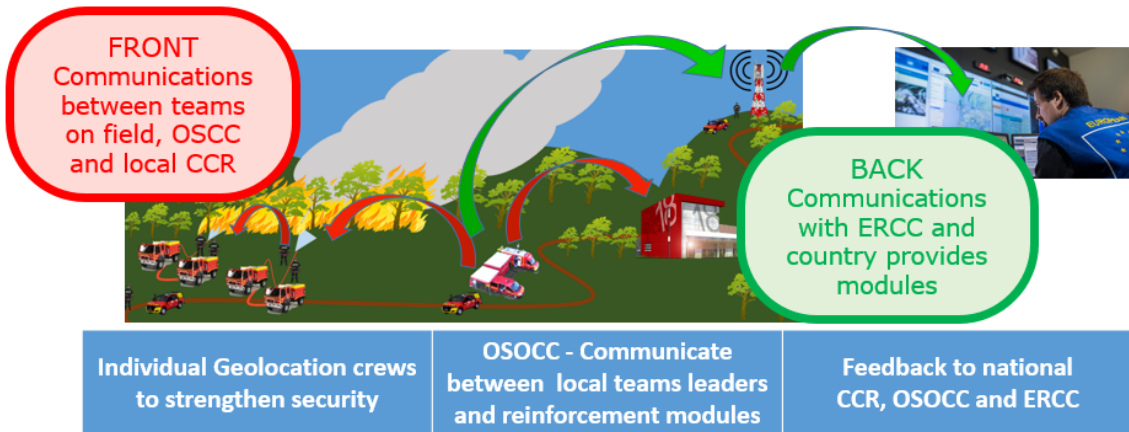European Civil Protection

SÉCURITÉ CIVILE & GESTION DES CRISES

In a context of a permanent increase in large-scale events requiring international support, the European Union is continuing to develop its support mechanism and to structure its response.
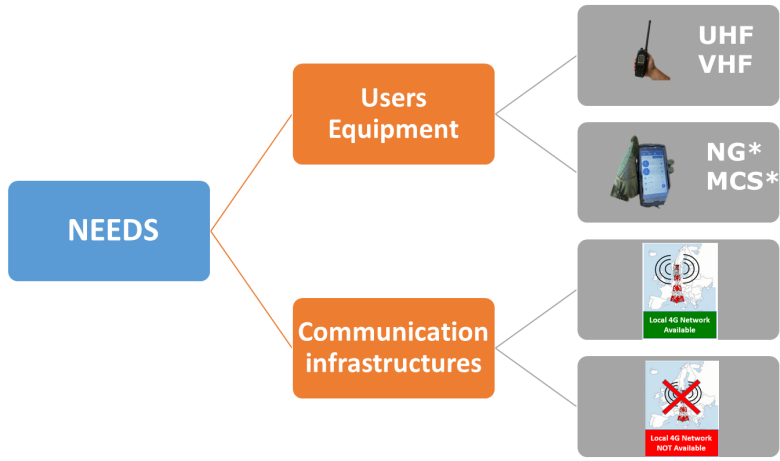
However, as with current risk management, day-to-day practices require the development of the tools on the ground necessary to ensure management as close as possible to those involved .

What are the needs and constraints in terms of communication means in case of UPCM deployment ?

What is needed in the field in terms of communication means?

FRONT
Communications between teams on field, OSCC and local CCR

BACK
Communications with ERCC and country provides modules

Individual Geolocation crews to strengthen security

OSOCC - Communicate between local teams leaders and reinforcement modules

Feedback to national CCR, OSOCC and ERCC

What are the tools to meet this need?

NEEDS

Users Equipment

UHF VHF

NG* MCS*

Communication infrastructures

Local 4G Network Available

Local 4G Network NOT Available

*New Génération
*Mission Critical Services

How FENICS can answer to these needs and constraints ?

WHAT IS FENICS ?

A team able to build or rebuild strategic communication tools from field ◀▶ **EUCPT** ◀▶ **ERCC**

1 EVENT — **ANSWER MATRIX** — **1 SCALABLE ANSWER**
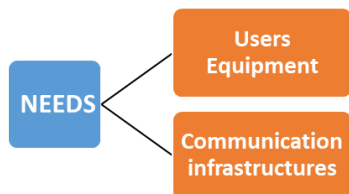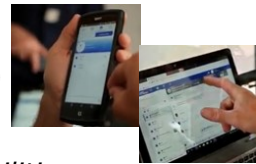
- **TEAMS**
- **MATERIAL PACKAGE**

In the few hours following the activation of the FENICS module, the management and technical team defines the response to be planned in terms of human and technical resources, based on the parameters related to the event. A matrix is used to facilitate the sizing of the module.

FENICS toolbox to solve the needs

Users Equipment:

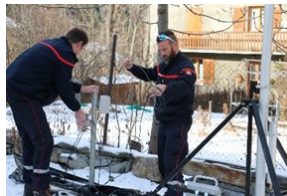*A stand-alone Critical Communication Solution (MCS)*

- Push To Talk
- Chat with pictures and video
- Individual location (for safety +++)

NEEDS
- Users Equipment
- Communication infrastructures

Communication infrastructures:

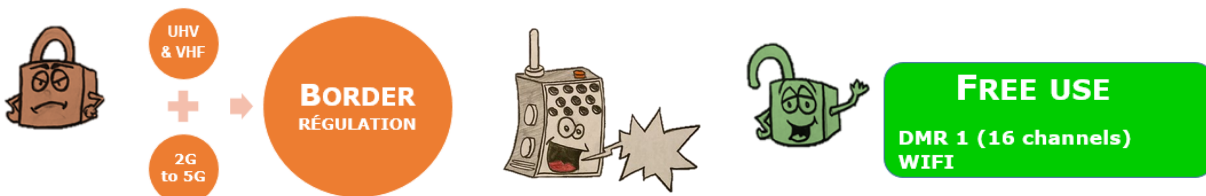*Strategic network reconstruction capabilities if the 4G/5G network in the host country is not available*

- Infrastructures
- Access points

Local 4G Network NOT available

How does FENICS address the issue of border regulation?

UHV & VHF + 2G to 5G → **BORDER RÉGULATION**

FREE USE
DMR 1 (16 channels)
WIFI

FENICS RESPONSE

The proposed FENICS solution could be composed of three elements:

- Technical and operational expertise to define the solution to be implemented according to the needs and objectives of the field command
- A toolbox to deploy communication solutions adapted to the operational situation
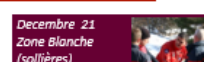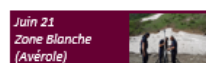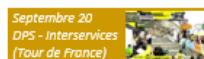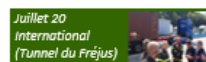- Self-sufficient for the team and equipment if travel by road.

This new concept will allow the deployment of infrastructures that are essential to command management.

Main tasks:

- Prior to departure, sizing of the FENICS capacity response based on an analysis matrix.
- Needs assessment
- For Civil Protection
    - Study of the communication needs between EUCPT and the field Modules
    - Study of the communication needs of the modules in the field
- For the Humanitarian Aid
    - Study of the needs of access to VOIP for the population affected
- Prioritization of the needs expressed by the EUCPT with the technical advice of the FENICS technical manager
- Deployment of the necessary infrastructure to meet the objectives of the EUCPT
- Maintenance in operational condition of the implemented equipment (including energy)
- Exchange with technical teams of local public safety services and local communication operators to prepare the return to normal conditions.
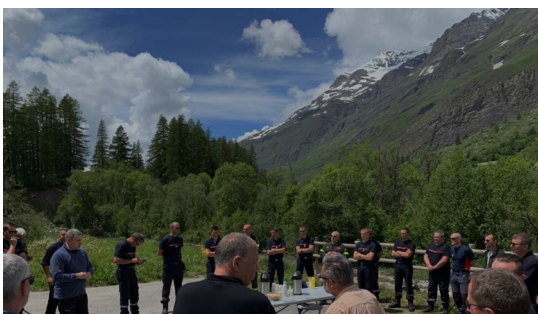

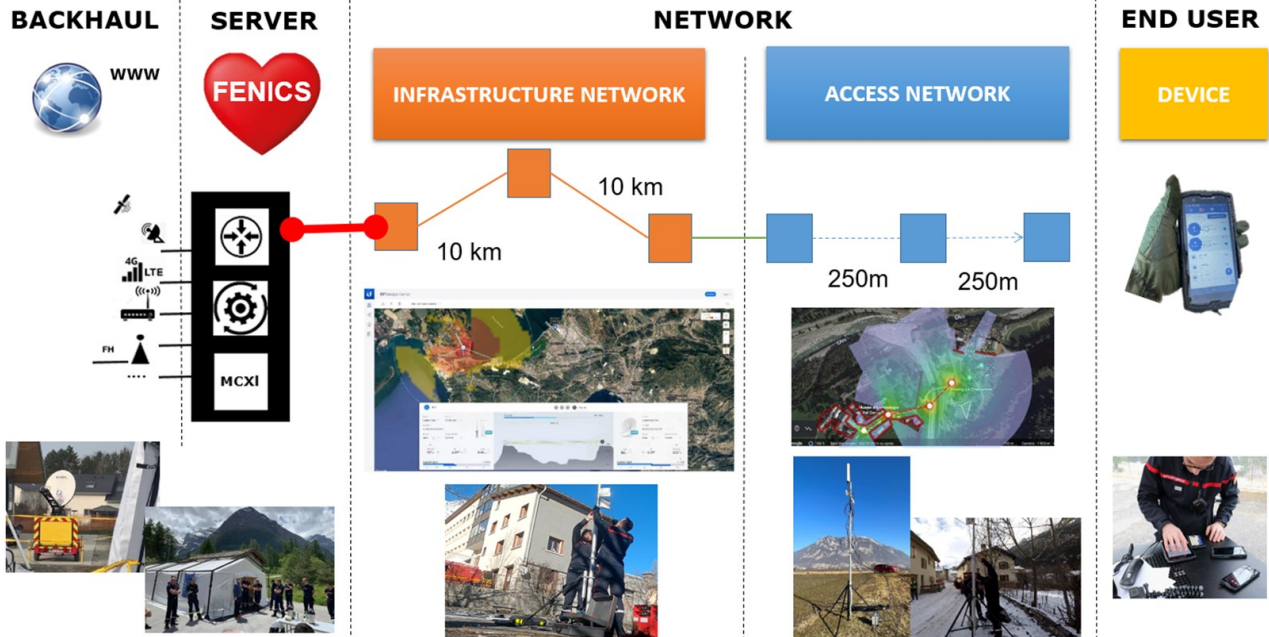## A construction process based on field experiments

Since 2019, the team constituting today's FENICS has conducted more than 10 field experiments to test multiple technologies to build a field solution to respond to the needs defined by the field.

This process of practical research has permitted the creation of a modular, scalable and adaptable solution to the operational situation encountered.
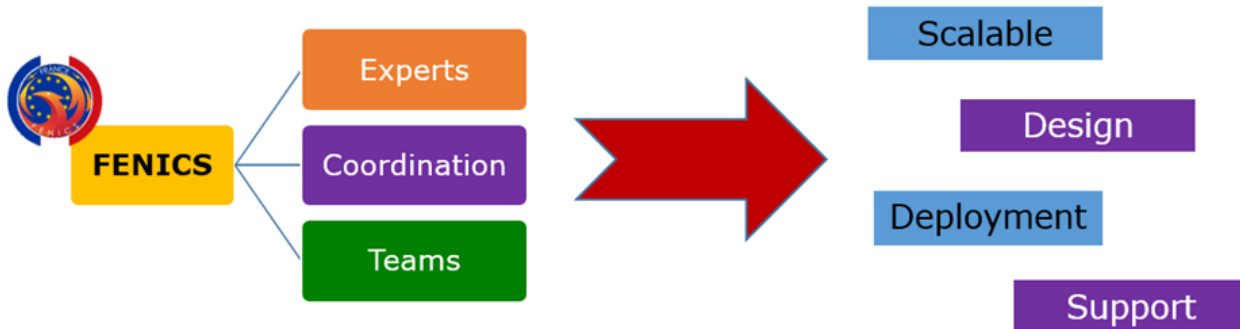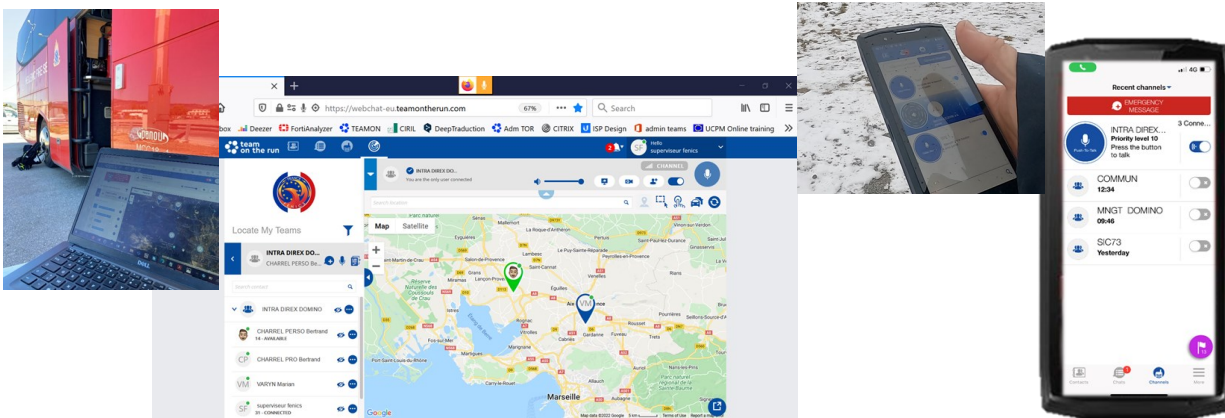
FENICS Response

Architecture provided

BACKHAUL | SERVER | NETWORK | END USER

www | FENICS | INFRASTRUCTURE NETWORK | ACCESS NETWORK | DEVICE

10 km

10 km

250m 250m

MCXI

Team capabilities

FENICS → Experts, Coordination, Teams → Scalable, Design, Deployment, Support

Mission Critical Services to provide communication on a smartphone

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DES BOUCHES-DU-RHÔNE