



Enhance joint operations and interoperability –
command and control centre solutions,
including the integration of UAV missions

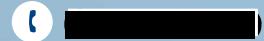
Workshop on border security research and innovative solutions, Warsaw, September 25, 2018

Enhance joint operations and interoperability

... with command and control centre solutions - including the integration of UAV missions



www.frequentis.com



www.frequentis.com



Agenda

1

About us

2

Transfer
innovation:
From crisis
management to
border control

3

UAV experience
integration:
Enhancing
FRONTEX'
mission control

4

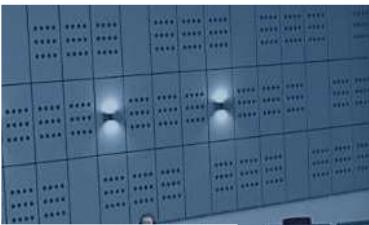
Knowledge
transfer:
From R&D to
missions in the
field

Highly reliable communication and information solutions for a safer world

70+ years of innovation in mission-critical applications



Control centres
worldwide



Air Traffic
Management



Defence



Maritime



Public
Transport



Public
Safety



Our vision: Number One in control centre solutions

The FREQUENTIS group engages globally in public safety to protect lives

Global market leader in secure voice communications and control centre solutions



275 M EUR
Total operating performance 2017

1,800+
Employees

75% STEM

12%
R&D
“We set standards”

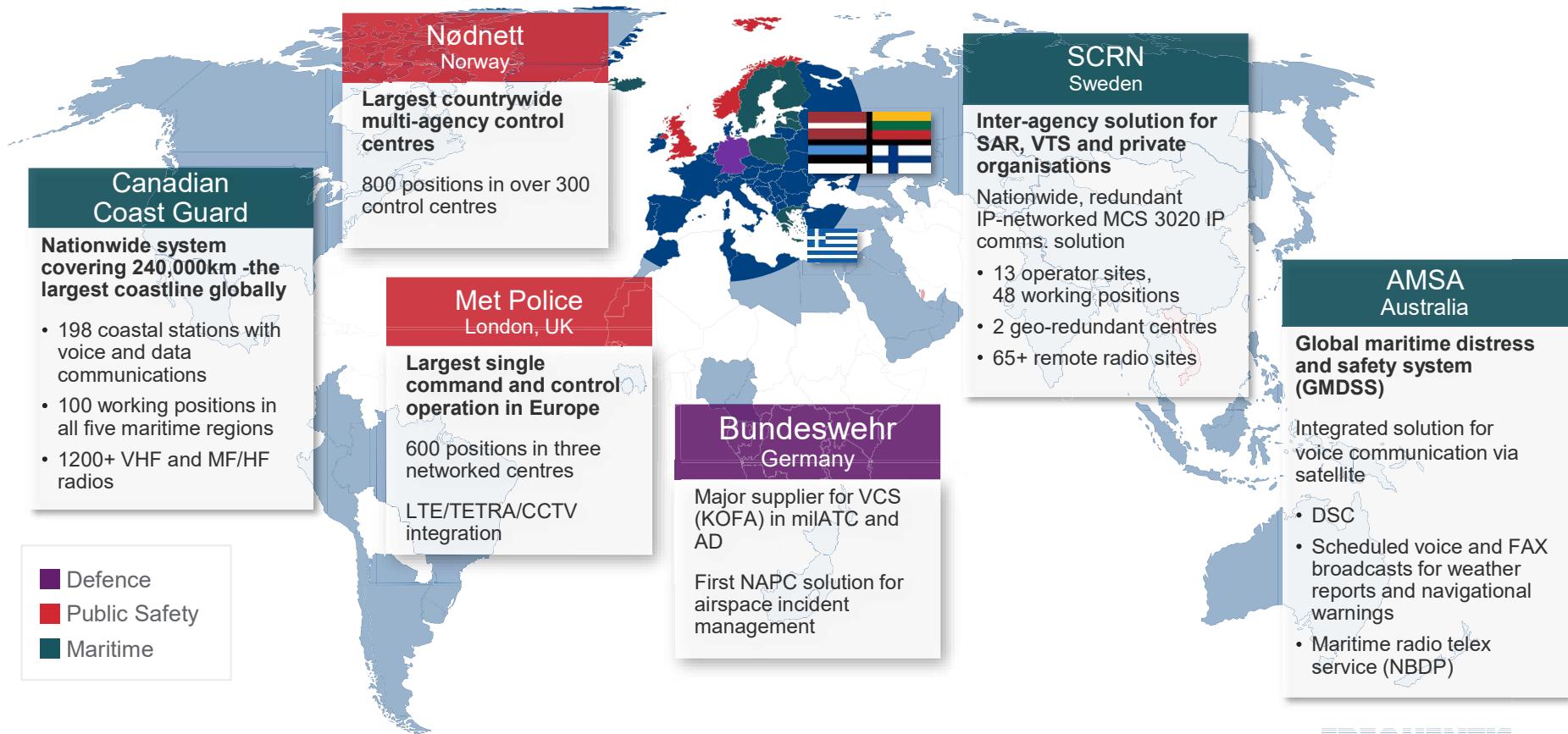
Headquarters Vienna

95% Export
Solutions partners and regional offices in 50+ countries

1947
Established
100% family-owned

Serving some of the largest and most demanding institutions in the world

Selected references



Agenda

1

About us

2

Transfer innovation:
From crisis management to border control

3

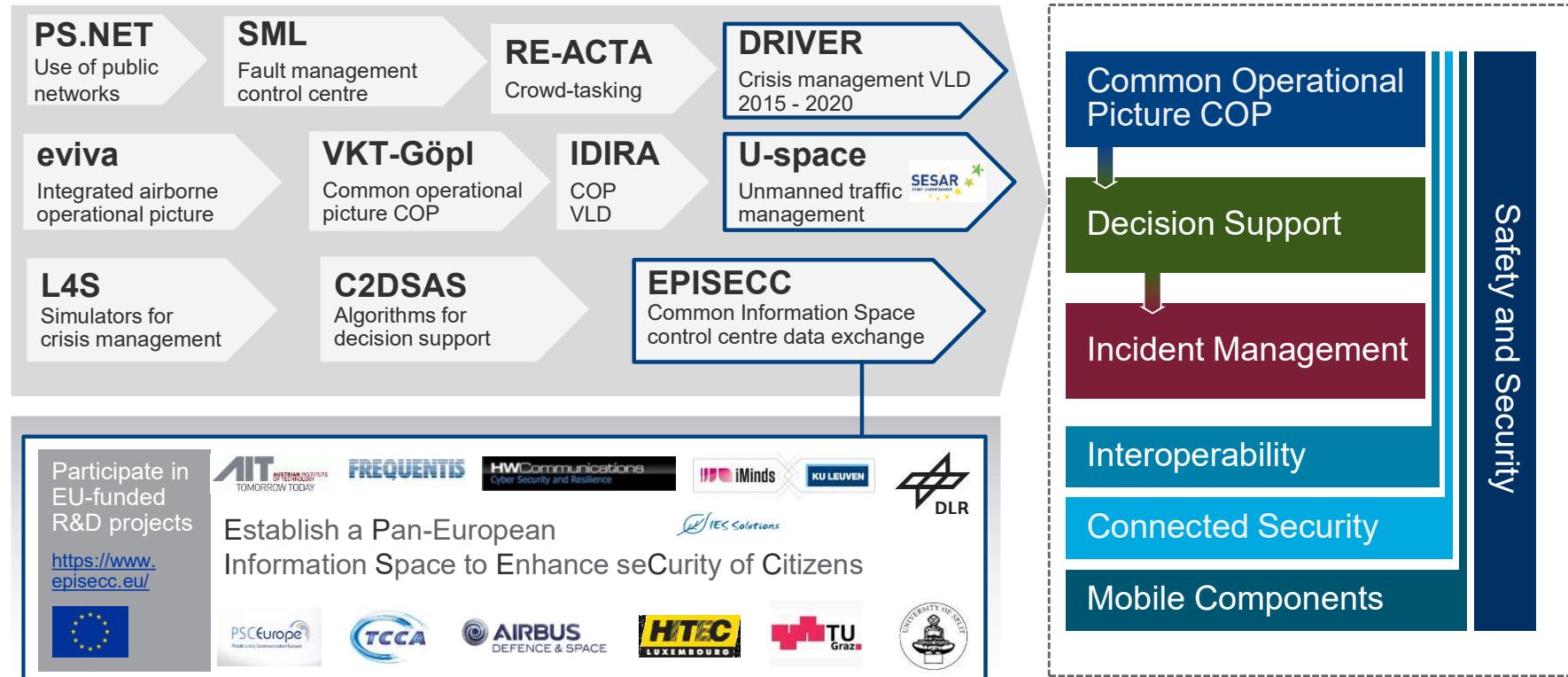
UAV experience integration:
Enhancing FRONTEX' mission control

4

Knowledge transfer:
From R&D to missions in the field

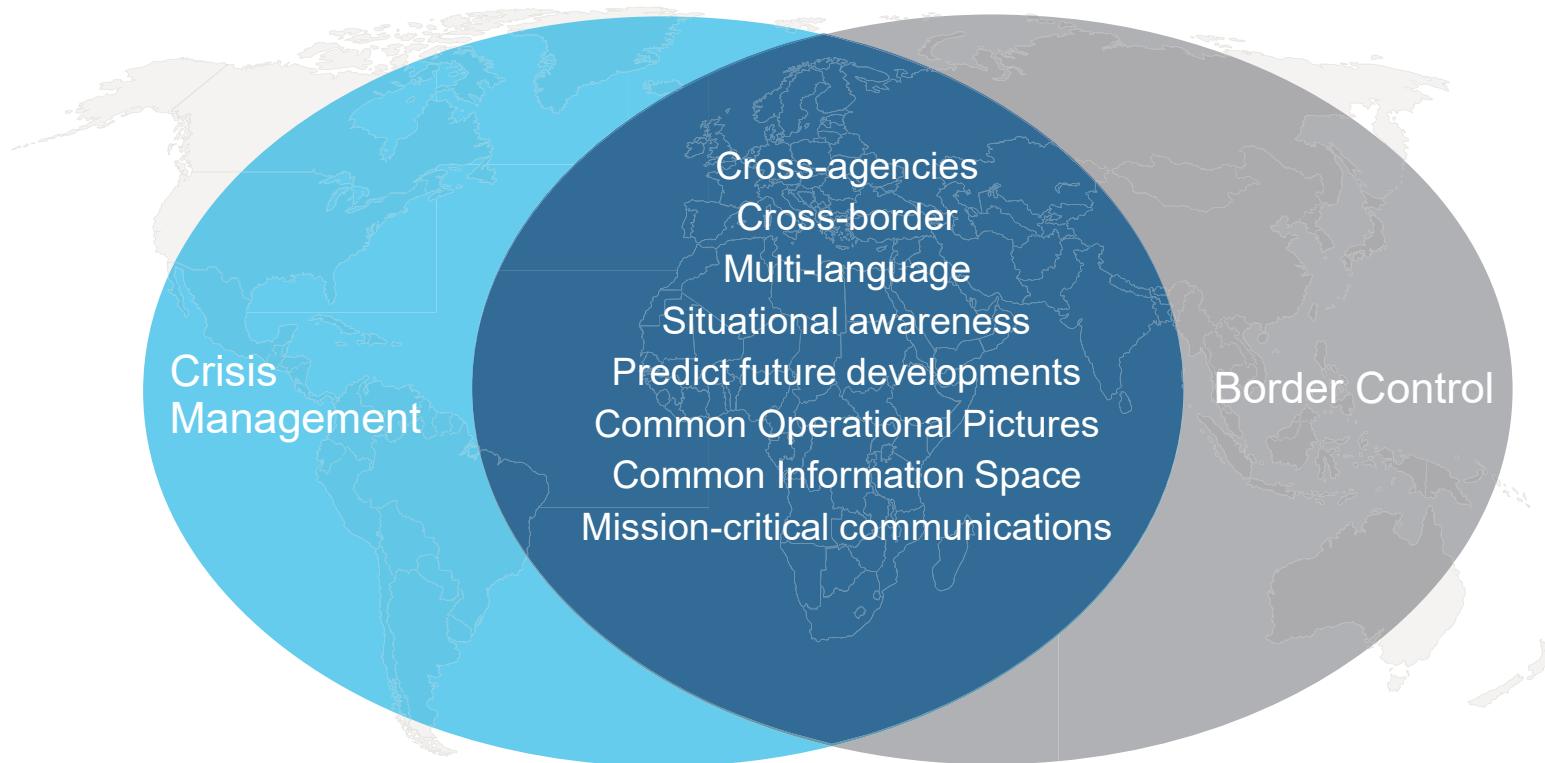
FREQUENTIS R&D focus on mission-critical communications and interoperability

Example | EPISECC – create “Common Information Space” (CIS) for control centre data exchange



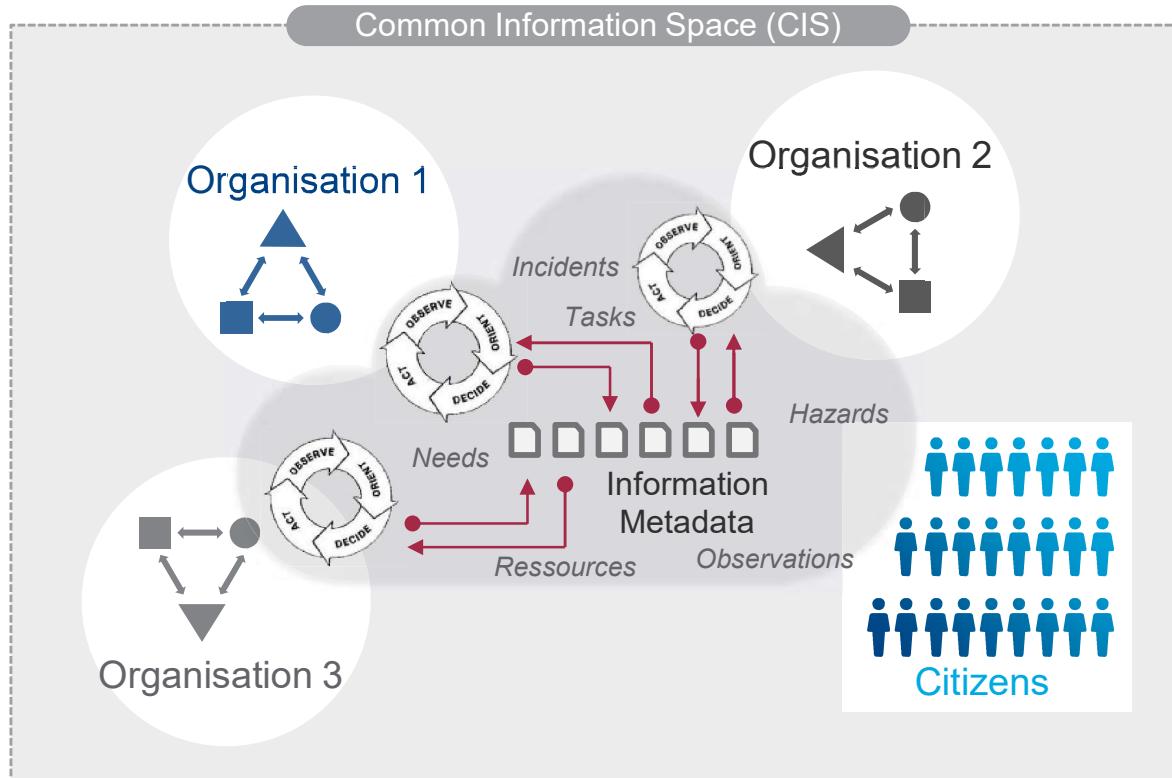
From Crisis Management to Border Control

How can we leverage Crisis Management R&D and solutions in FRONTEX' context?



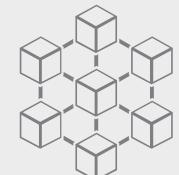
Example | Interoperability and cooperation require an underlying CIS

Only harmonized procedures and data exchange can enable successful collaboration



Pro-active action in a crisis situation through better decision-basis

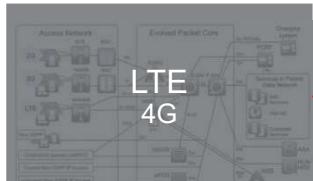
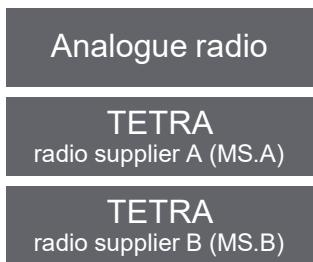
- Electronic information exchange
- Control Centre focused
- Real-time situation picture
- Detection of possible cascading effects
- Quality assurance of data
- Geo and time reference



Example | Interoperability and cooperation require communications at any time

FREQUENTIS 3020 LifeX offers a secure way to communicate with all units across all organizations

Secured Border Communications BCP



Mobile apps

“Mix and match”
**3020
LifeX**



Situation Centre FSC / NCC

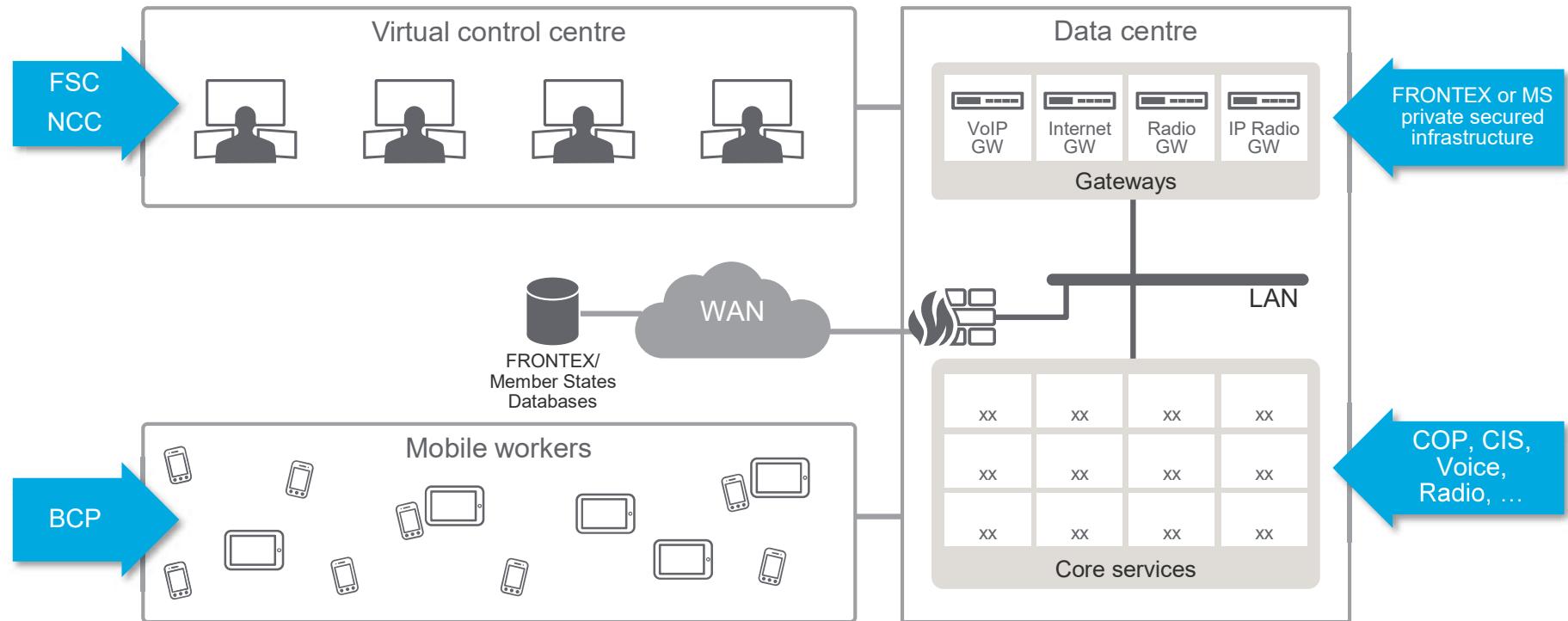


Unified
user
interface

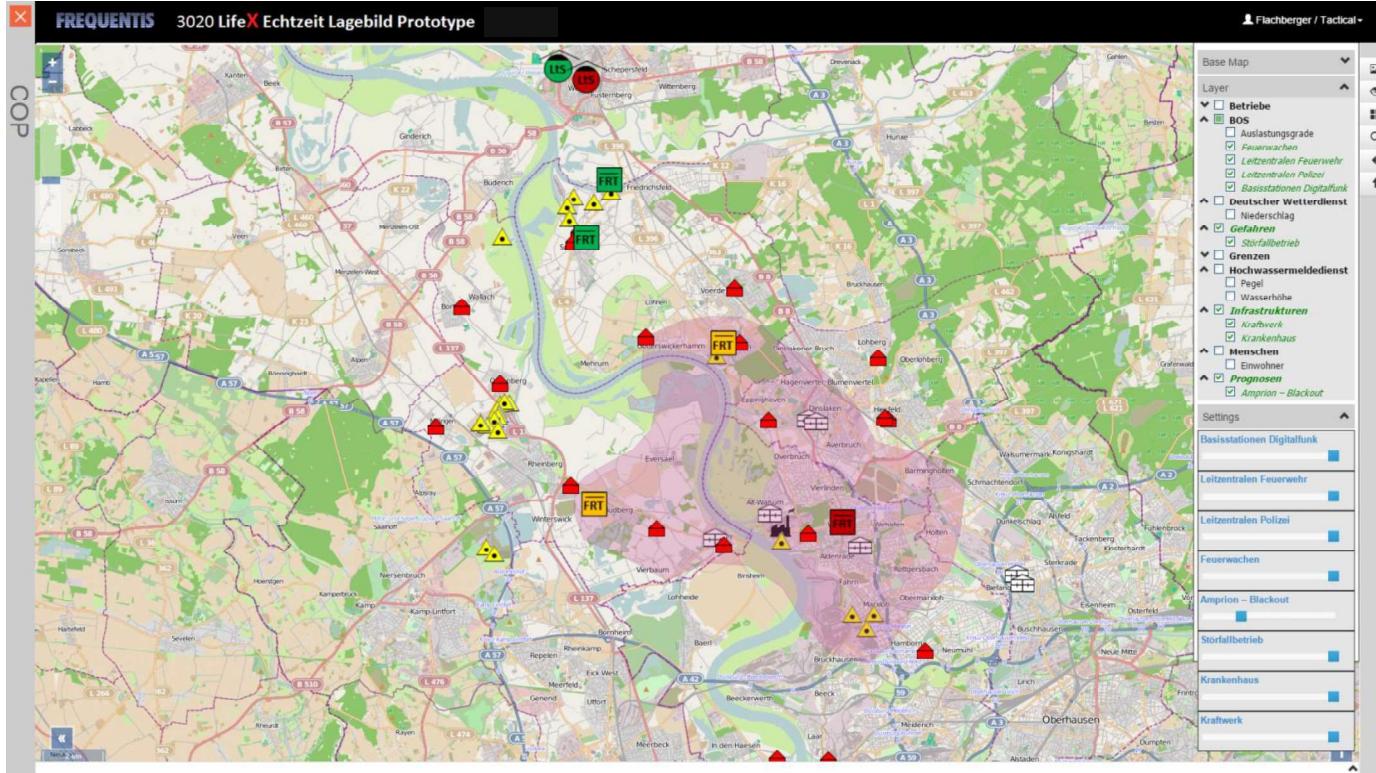
End-to-end
command and control centre

Essential for FRONTEX: Decide and operate from anywhere

Dissolve barriers of communication between BCP and various Situation Centres.



FRONTEX use case: Demo FREQUENTIS 3020 LifeX



FSC operator in line
with border police
TETRA talk group
in the field.

Agenda

1

About us

2

Transfer innovation:
From crisis management to border control

3

UAV experience integration:
Enhancing FRONTEX' mission control

4

Knowledge transfer:
From R&D to missions in the field

Innovation in the field of drones triggers R&D and VLD in the „U-space“



UAV use-case demonstrations

- Urban drone fleet ops in Helsinki with Police intervention
- Co-operation with Search and Rescue forces and general air traffic (GA)
- Maritime traffic surveillance combined with border guards over Gulf of Finland

Key objectives

- Cross-agency / country drone (UAV) information management system
- Accessibility of a Common operational picture
- Enable Joint Operations / authority collaboration



Police and Border Guards involvement

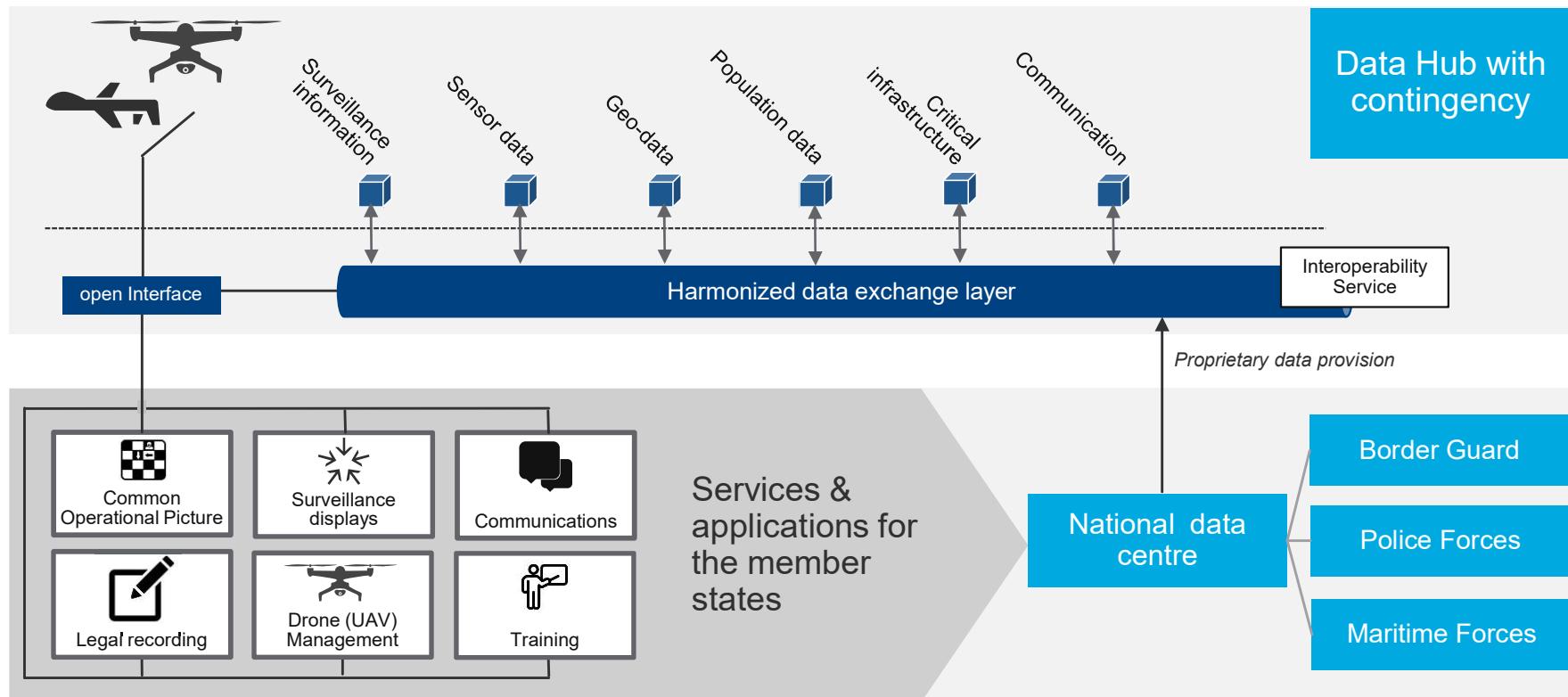
- Finnish Air Rescue
- Police and Border Guard Estonia
- Helsinki Police



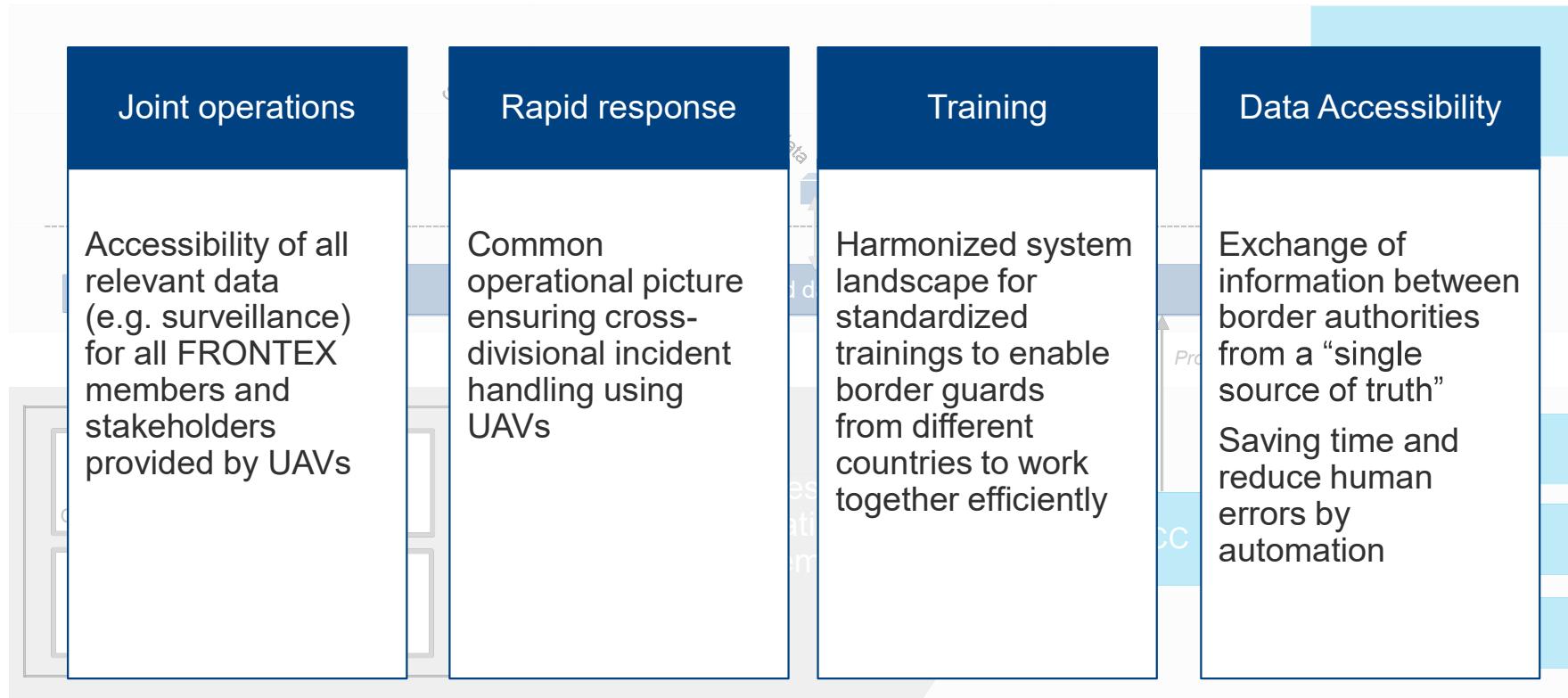
[...] The demonstration will show the fitness for purpose of a digital data exchange platform to demonstrate cross-border drone (UAV) operations considering **police-, border guard- and search & rescue mission** [...]

Innovation in the field of drones triggers R&D and VLD in the „U-space“

Enhance safe UAV operations to gain efficiency for FRONTEX missions



Interoperability supports FRONTEX' mission, providing collaboration in all areas



Agenda

1

About us

2

Transfer innovation:
From crisis management to border control

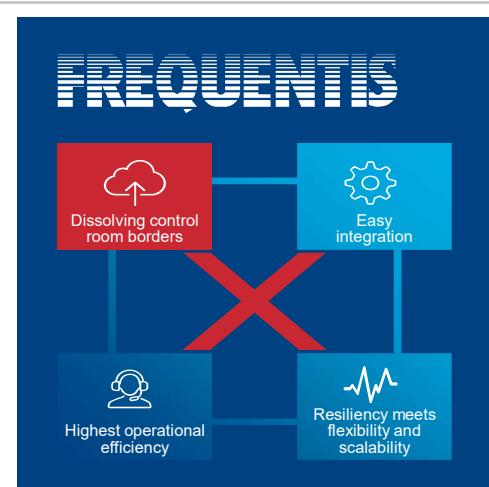
3

UAV experience integration:
Enhancing FRONTEX' mission control

4

Knowledge transfer:
From R&D to missions in the field

Current R&D in Crisis Management, innovative technology and existing solutions are ready to enhance FRONTEX' joint operations and interoperability



Proof of concept with
FRONTEX and member states
BCP ↔ NCC ↔ FSC





FREQUENTIS

FOR A SAFER WORLD

