EWS beyond mobile networks

F24

Warn everyone, everywhere, anytime

WMO Technical Conference on : "The UN Global Early Warning Initiative for Climate Adaptation: Early Warnings for all",
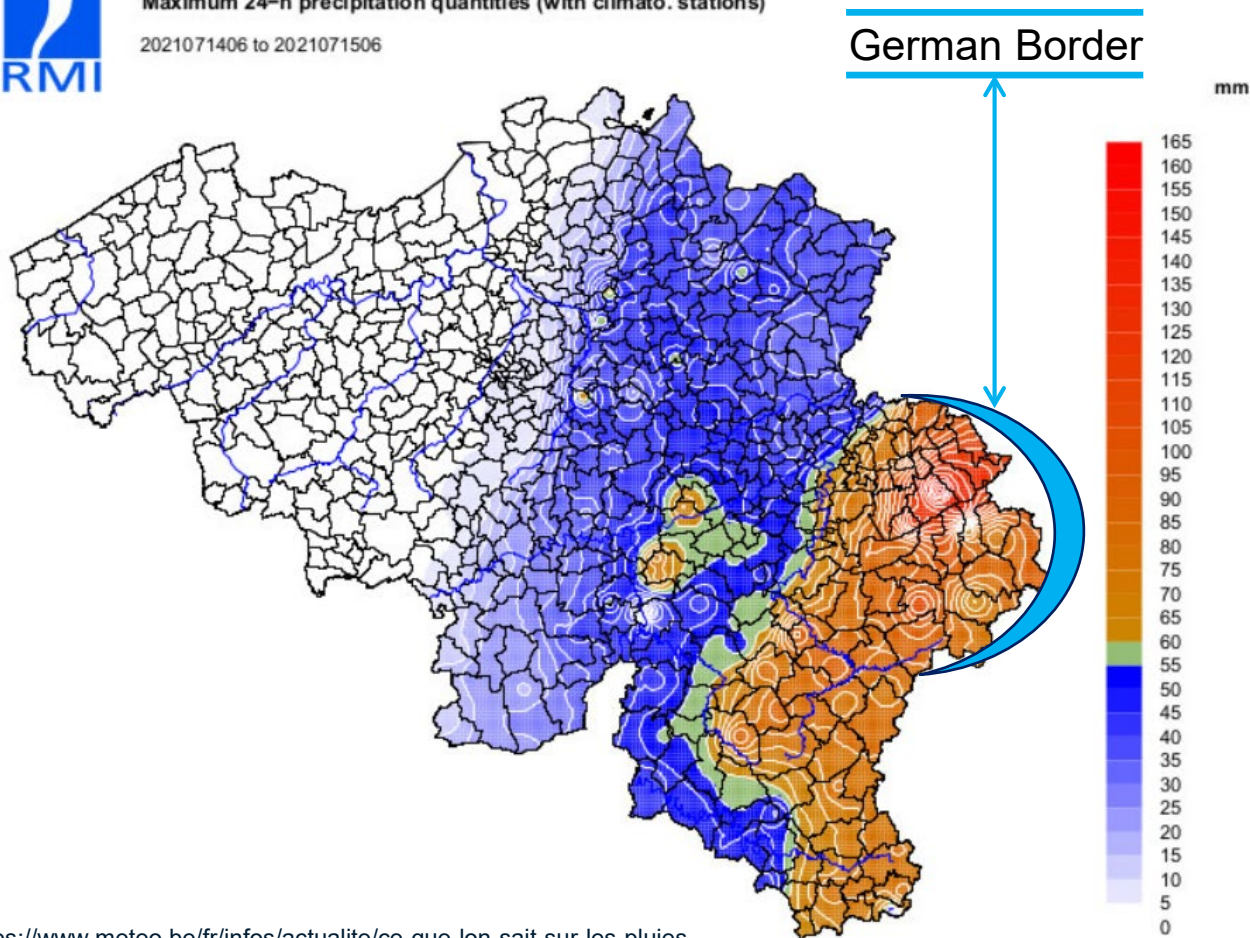Dr. Amélie Grangeat

October 2022

Public

Description of the Belgium flood -14th to 17th July 2021

Maximum 24−h precipitation quantities (with climato. stations)

2021071406 to 2021071506

RMI

German Border

mm

- Same meteorological depression blocked on Eastern **Belgium and Germany**. Extreme precipitation in 48 hours, above the century level

- 37 casualties in Belgium
- In Lieges city :
  - Upstream, the dam of Ile Monsin is under construction and cannot regulate correctly the flow => risk of damn's break
  - Evacuation of Lieges
- The floods impacted also Braban Wallon, le Hainaut, Luxembourg Province and Namur
- Area without electricity, without drinkable waters
- On the 20th of July : day of national mourning

https://www.meteo.be/fr/infos/actualite/ce-que-lon-sait-sur-les-pluies-exceptionnelles-des-14-et-15-juillet-2021

https://www.rtbf.be/auvio/detail_inondations-retour-sur-plusieurs-jours-d-apocalypse?id=2792606&jwsource=cl

Be-Alert usage during the flood – The lifeline of citizens

Lieges, Belgium's third-largest city. July 2021

Valentin Bianchi/Associated Press. NY Times
https://www.nytimes.com/2021/07/16/world/europe/liege-belgium-flooding.html

1,7 Millions Location-based SMS in less than 24 h (15th July)

Multi-channel approach : voice calls, websites, CAP feeds, social networks,…

60 alerts campaigns sent by 37 municipalities
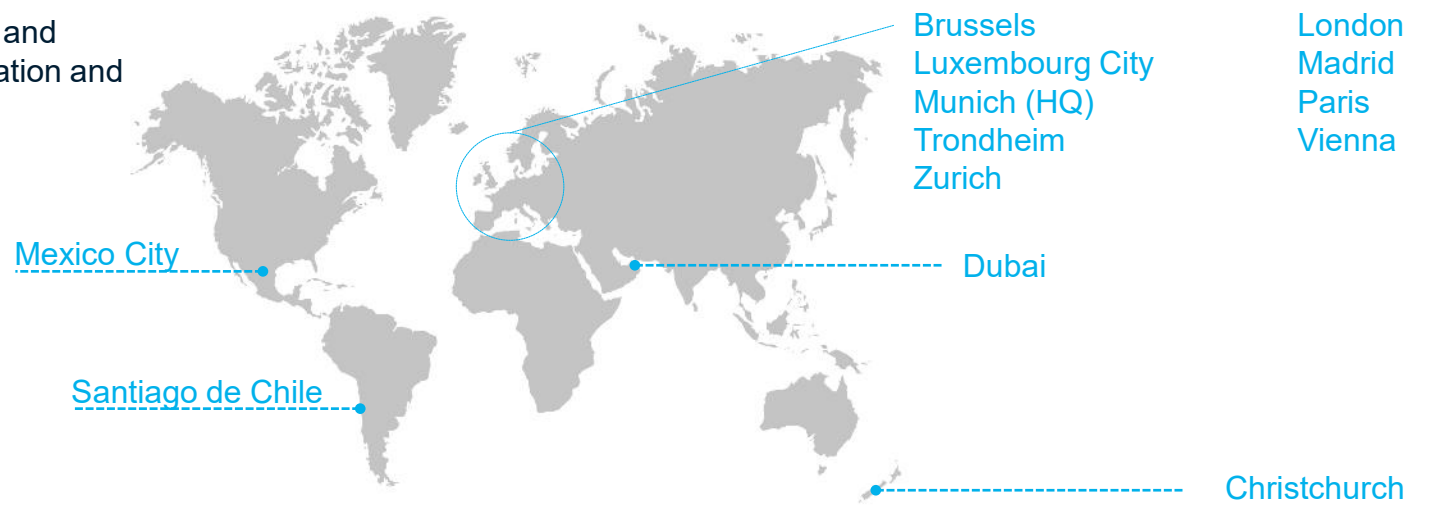
40 information campaigns sent by 25 municipalities

Mobilisation of the F24 crisis team in support of the Federal Crisis Center

"

Our solutions enable to save lives and values!

F24 Mission Statement

F24 - That Great Feeling of Being Equipped to Deal with any Critical Situation

#1 | Europe's leading SaaS provider for crisis and incident management, emergency notification and business messaging.

>20 | years experience

1 | First and only European provider listed in the Gartner Report for EMNS

200+ | employees worldwide

Brussels
Luxembourg City
Munich (HQ)
Trondheim
Zurich

London
Madrid
Paris
Vienna

Mexico City

Dubai

Santiago de Chile

Christchurch

3,000+ | clients globally

42% of STOXX Europe 50 companies supplied

74% Emergency notification and crisis management
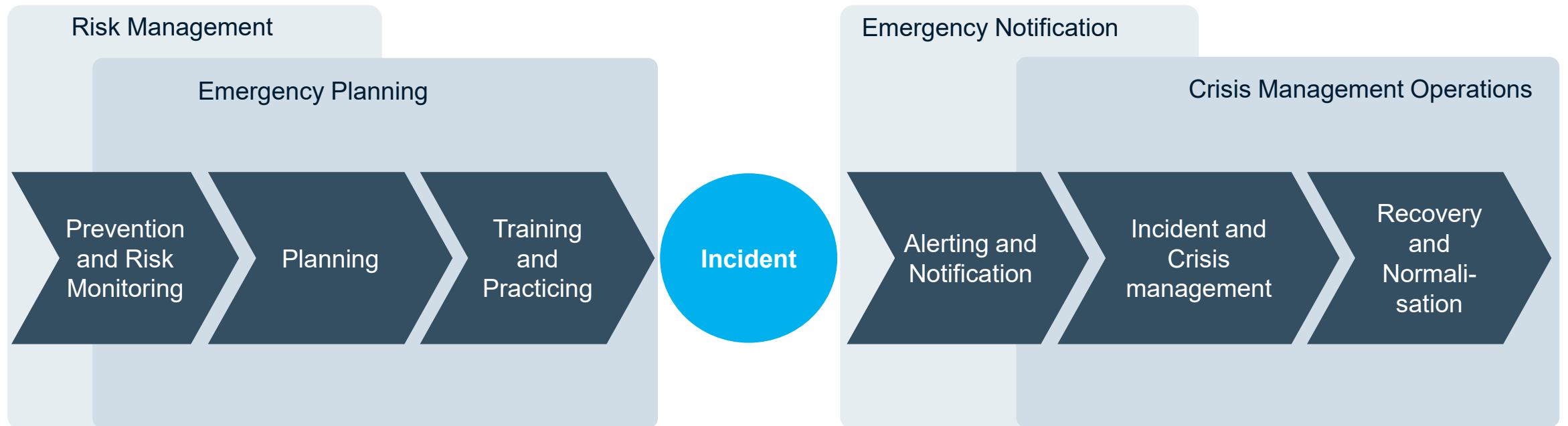
Year 2021

26% business messaging

More than 3,000 customers worldwide trust in F24.

Automotive	Transport and Logistics	Aviation	Energy	Manufacturing	IT and Tele-communikations	Healthcare Sector	Public Organizations	Financial Services
Audi	aena	AeroMexico	ALPIQ	Aurubis	3M	ASKLEPIOS	EU	AXA
BMW GROUP	AVIS Budget	AIRBUS	bp	Beiersdorf	Atos	DSM	Belgium	BANQUE DE FRANCE
Continental	BVB	EUROCONTROL	equinor	EVONIK KRAFT FÜR NEUES	Capgemini	MRI Klinikum rechts der Isar Technische Universität München	BSH BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE	CREDIT SUISSE
DAIMLER	DHL	Eurowings	REPSOL	THE LINDE GROUP	IBM	Les Hôpitaux Universitaires de STRASBOURG	Generalitat de Catalunya	COMMERZBANK
MAN	Dublin Airport	Lufthansa	RWE	SIEMENS	SAP	Roche	LANDESKRIMINALAMT NIEDERSACHSEN	LUXEMBOURG STOCK EXCHANGE
PORSCHE	Hamad International Airport QATAR	RYANAIR	Shell	SOLVAY	Telefónica	Simplyhealth	Norwegian Ministry of Foreign Affairs	Santander
VW	Hermes	SWISS	TOTAL	thyssenkrupp	T··Systems·	STADA	OECD	UBS
ZF	Köln Bonn Airport	vueling	VATTENFALL	Unilever	vodafone	wellcome	Stadt Zürich	UniCredit Bank

Holistic approach before, during and after a crisis event

Risk Management

Emergency Planning

Prevention and Risk Monitoring → Planning → Training and Practicing

Incident

Emergency Notification

Crisis Management Operations

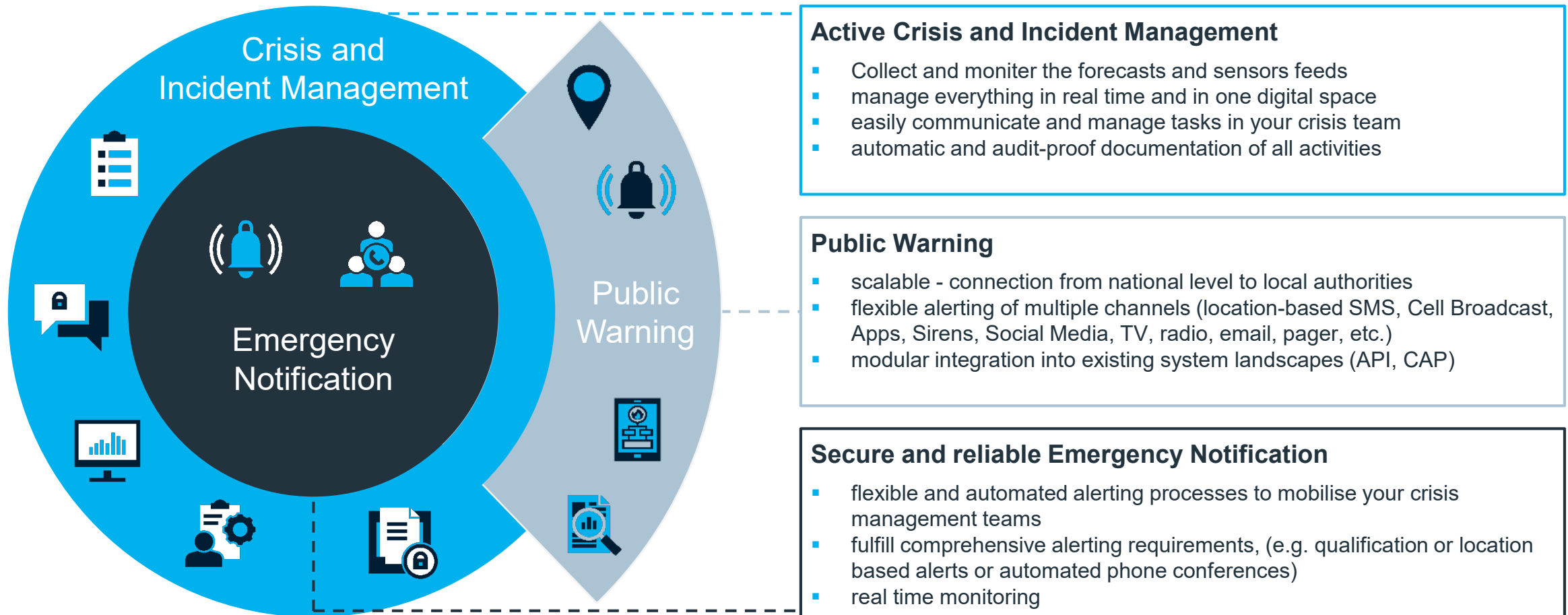Alerting and Notification → Incident and Crisis management → Recovery and Normali-sation

"

Tailor the technology to your EWS needs

(and not the opposite…)

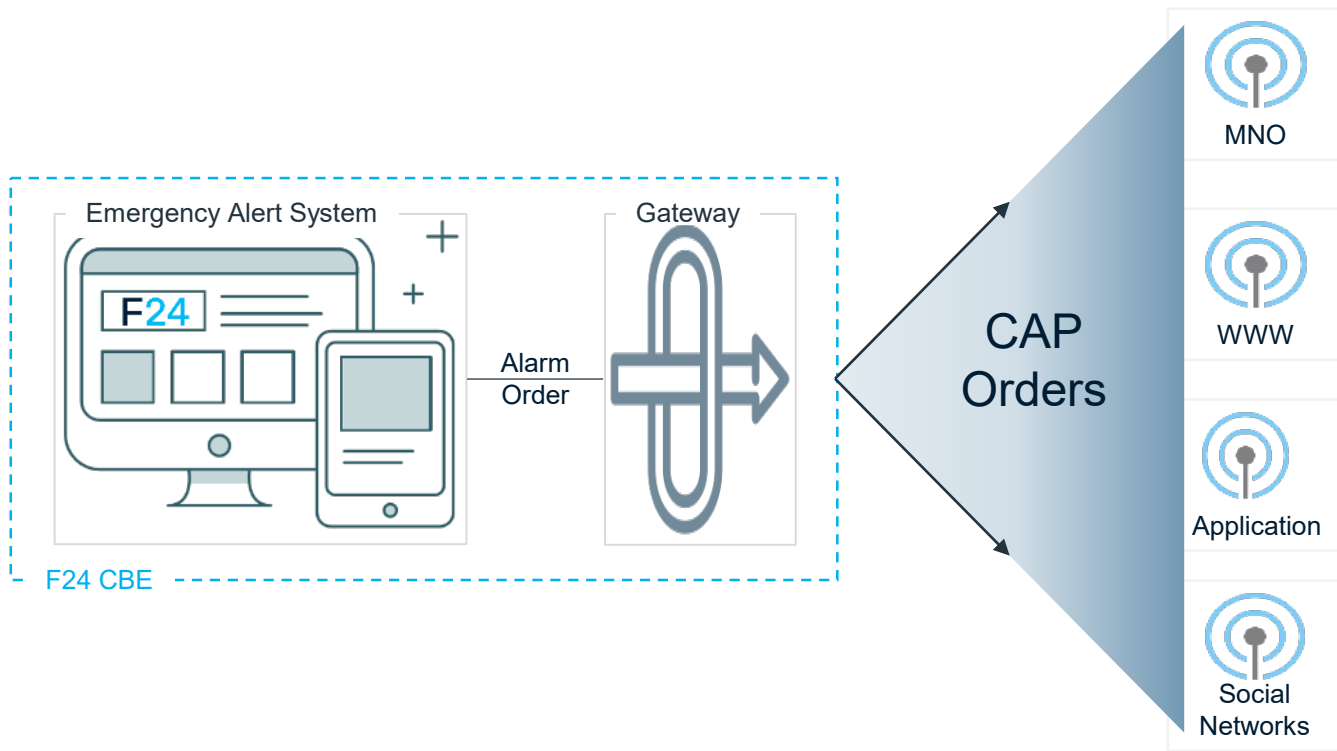# F24 solutions enable to handle any critical situation professionally and comprehensively from end-to-end.
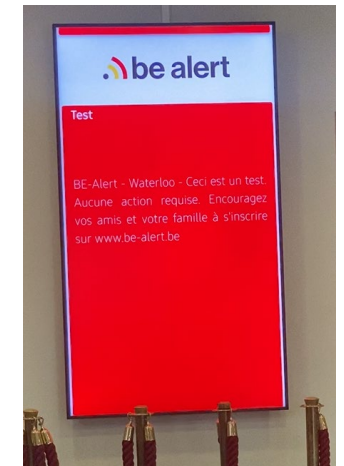

Active Crisis and Incident Management

- Collect and moniter the forecasts and sensors feeds
- manage everything in real time and in one digital space
- easily communicate and manage tasks in your crisis team
- automatic and audit-proof documentation of all activities

Public Warning

- scalable - connection from national level to local authorities
- flexible alerting of multiple channels (location-based SMS, Cell Broadcast, Apps, Sirens, Social Media, TV, radio, email, pager, etc.)
- modular integration into existing system landscapes (API, CAP)

Secure and reliable Emergency Notification

- flexible and automated alerting processes to mobilise your crisis management teams
- fulfill comprehensive alerting requirements, (e.g. qualification or location based alerts or automated phone conferences)
- real time monitoring

Alerting beyond MNOs

F24

Common Alerting Protocol

A multi-channel alert implies to guarantee the coherency in your alerting strategy

MNO

WWW

CAP
Orders

Application

Social
Networks

Emergency Alert System

F24

Gateway

Alarm
Order

F24 CBE

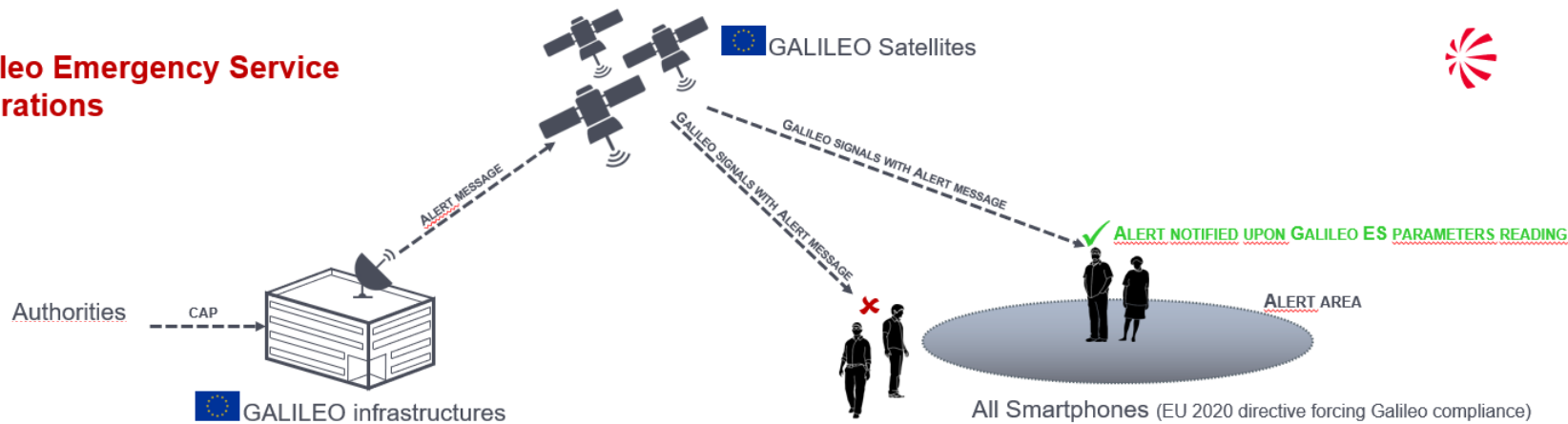Alerts displayed on commercial public boards in a shopping center, April 2022, Belgium

Beyond the MNOs : Alerting by satellite

**F24 : Member of the "STELLAR" project :
Official Emergency Warning Services Demonstrator via Galileo**

Our added value

Monitoring & forecasting inputs

Emergency Alert System

The Emergency Alert System has an intuitive user interface, as well as an extensive logic for

- rights management (who is allowed to do what and in which region)
- approval of alerts
- mapping of complex structures from federal, state and regional levels
- geographical delimitation of alerts based on digital maps
- planning of time-related alarms
- creation of predefined alarm plans

Gateway

The gateway connects the mobile network operators (MNOs) and all the other channels to the Emergency Warning System on an individualized basis.

It processes incoming alarm orders and uses its complex logic to generate the corresponding CAP messages, which are sent to the broadcasting centers of the respective channels.

Other systems can be connected bidirectionally via the gateway.

Setup & Services

F24 offers, among others:

- installation, setup and integration of Emergency Alert System and Gateway
- hosting
- flexible set up: on premise or cloud-based
- operation as a managed service
- 24/7 user hotline
- project management
- individual adaptations and extensions

F24 as general contractor – we offer a complete end-to-end solution

We are at your disposal

F24

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Thank you!

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