

paragon

For an integrated approach to emergency planning and crisis management



1. What is Paragon?



Definition

Paragon is a program, EU-funded, seeded within the Belgian National Crisis Centre that will serve as the support platform to enable the Crisis Centre, its stakeholders and its peers to manage emergency planning and organize crisis management in the broadest interpretation.

*It will enable us, by using map layers and numerous data sources, to see what we can not see (**Digital Twin Visualisation**); to know what we need to know (**Communication and Flow**); to use the correct data and resources (**single sources of truth**) and to increase our efficiency and preparedness (**Automation governed by human factor**). Using these concepts and adding Big Data, prediction modelling and Artificial Intelligence to it will enable us to improve the positive outcome of events in the future.*

Paragon is a perpetual program based on adopted, open standards and is secure, scalable and multilingual. It is developed within the Crisis Centre thus it is free of commercial interests and could be made widely available to tier organizations, both nationally and internationally.

Key concepts

Combine map layers and data sources to provide digital twin visualisation

Case based with interaction between impact areas and objects

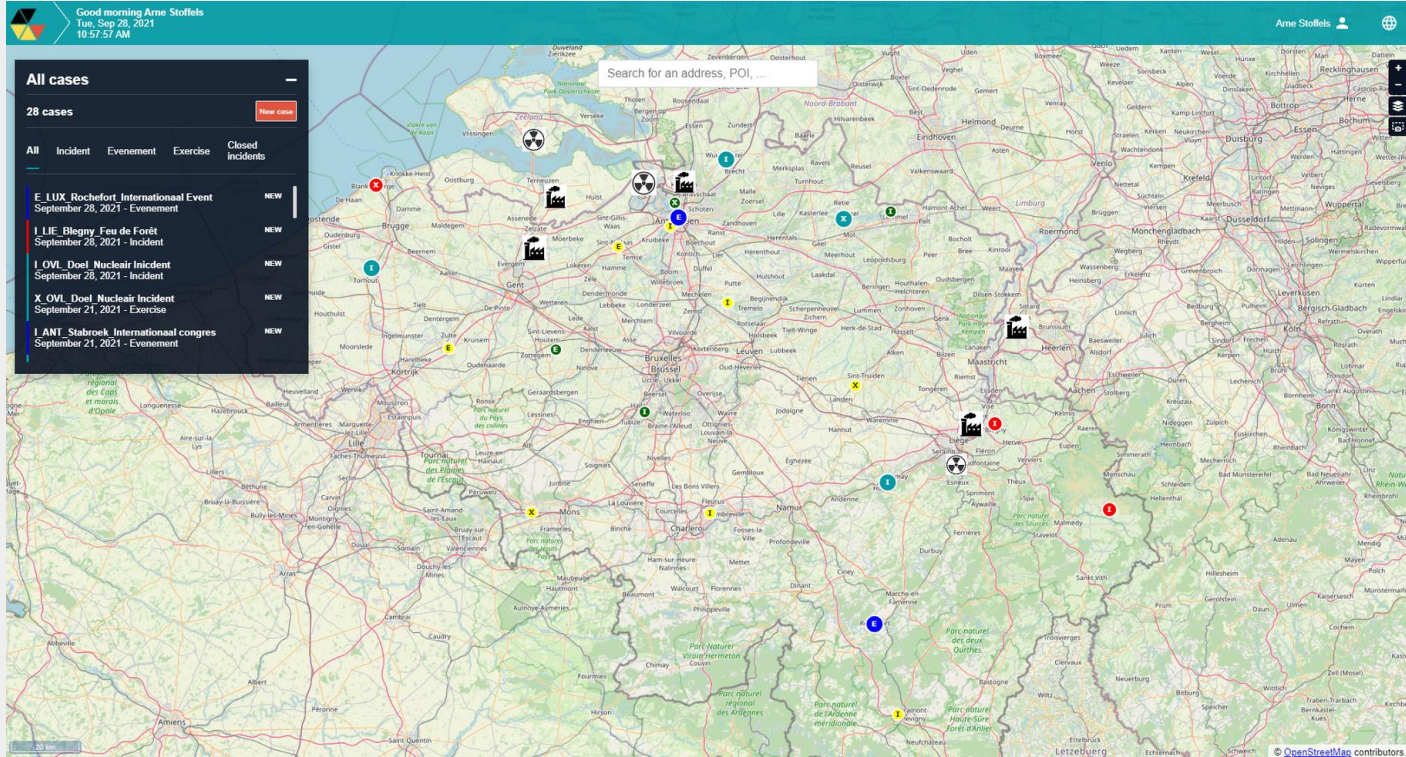
Integrate Microsoft365-technology with GIS-technology

Multi-user, multilingual, secure, scalable, open standards

Open source, in house development within the NCCN/ICT-department with all its relevant specialist profiles

Source code owned by NCCN

2. Case overview



2. Case fire firing range



The screenshot displays a web application interface for a fire simulation. The main map shows a yellow firing range area around Maastricht, with a 'Zone d'impact' label. The interface includes several panels:

- Weather:** Bléigny, 13°C, 0% humidity, 10 km/h wind, 180° S. Source: IRM/KMI. Last update: 10:00.
- Helicopter view:** Brand Groot Schietveld in Brecht 23/04/2021. Includes a YouTube video player.
- Logbook:** A list of system events, including 'set theme hardcoded', 'Create', 'Load success', and 'View change'.
- Command structure:** COFECO, Beleid, Annelies Verfinden - Minister, Bart Raeymaekers - DG NCCN.
- Map:** A map of the region around Maastricht, showing a yellow firing range area and various geographical features.

4. Interoperability Paragon cross-border/international



Cross border Paragon = whether a crisis is regional, national, cross-border or has a real international impact, the Paragon concepts and features can handle it.

Focal points

- Legal/Institutional
- National standards (e.g. icons, metadata, policies, procedures...)
- MOU/Protocol of cooperation
- Technical interoperability/interfaces

Technical

- Paragon is not limited by borders and is map-, data source- and widget-based
- Chosen Paragon technology and concepts guarantee flexibility to implement interoperability focal points
 - High degree of parametrisation allows legal, organizational and operational standards to be implemented without “cross-border limitations”
 - Map layers of any kind from any sources of any location
 - Data sources of any related kind from any (international) source (TBA in 2022)
- Paragon is multi-lingual (NL, FR, DE, EN, ...) and uses modern authorisation and authentication technology (M365)



Q&A - contact



Dominick Vansevenant
Dep. Director ICT&Secops
Paragon program manager

dominick.vansevenant@nccn.fgov.be

+32 479 872893

paragon 