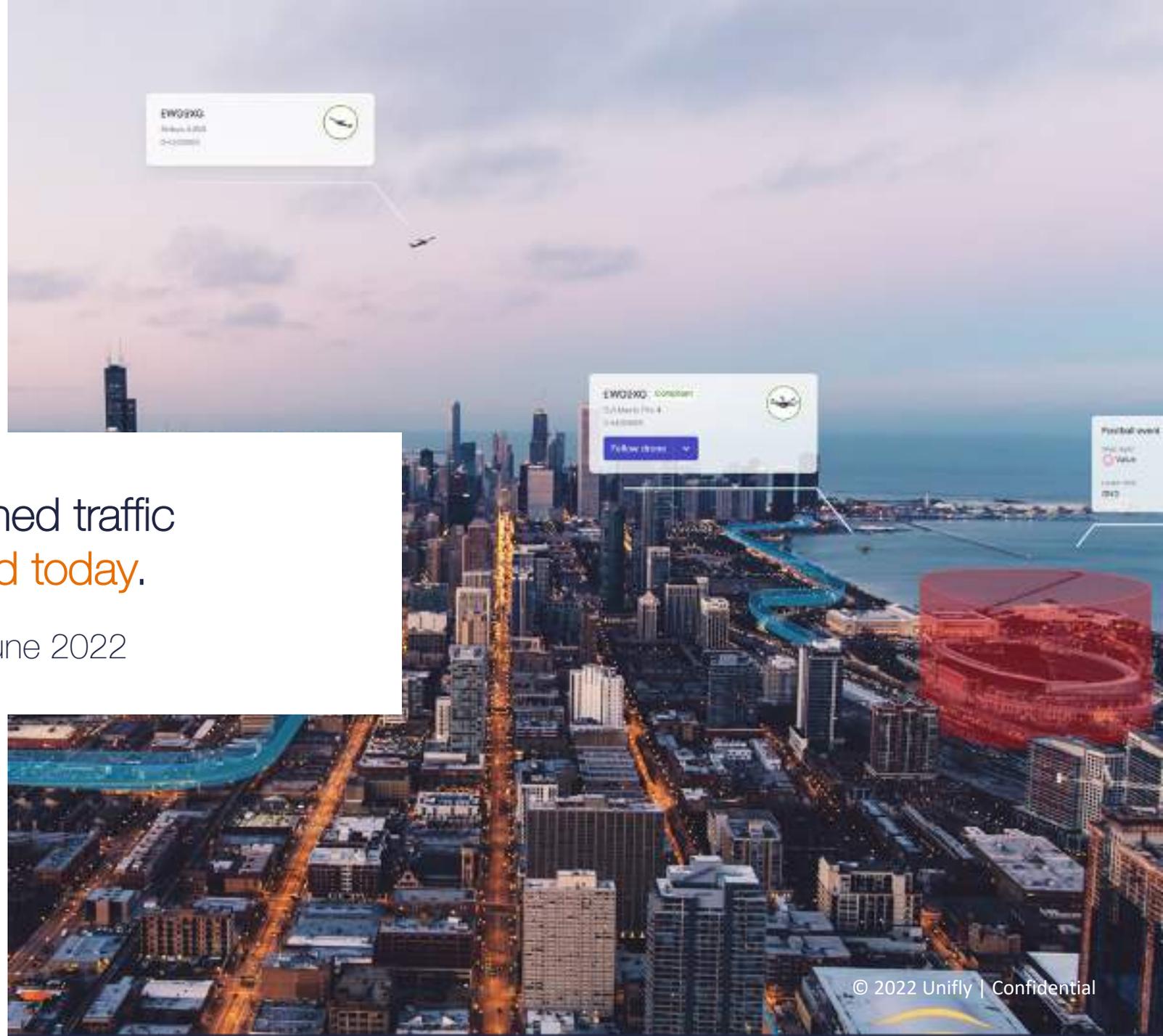


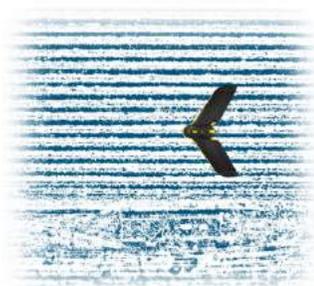


The future of unmanned traffic management, **applied today.**

CILTNA Spring Outlook – June 2022



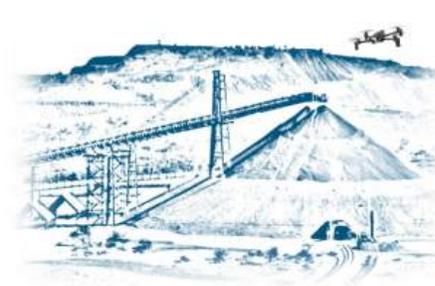
Drones have tremendous potential for the economy



Agriculture



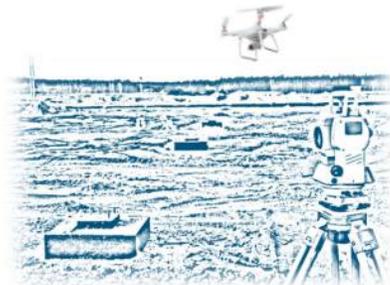
Construction



Mining



Infrastructure Inspection



Land Survey



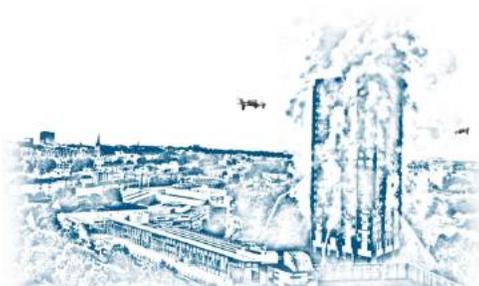
Building Inspection



Security



Photo & Videography



Public Safety



Logistics & Delivery



Passenger Transportation



Source: Levitate Capital, "The Future of the Drone Economy", Dec. 2020

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But airports & seaports are critical infrastructure (restricted areas)



Unifly connects all stakeholders to enable safe & secure operations



Civil Aviation Authority

Drone Operators



Air Navigation Service Provider

General Public



Local Authorities

Public Safety Agencies



How? By digitizing and automating airspace safety



Drone Pilots

Authorities

Drone Operators

Remote ID & Tracking

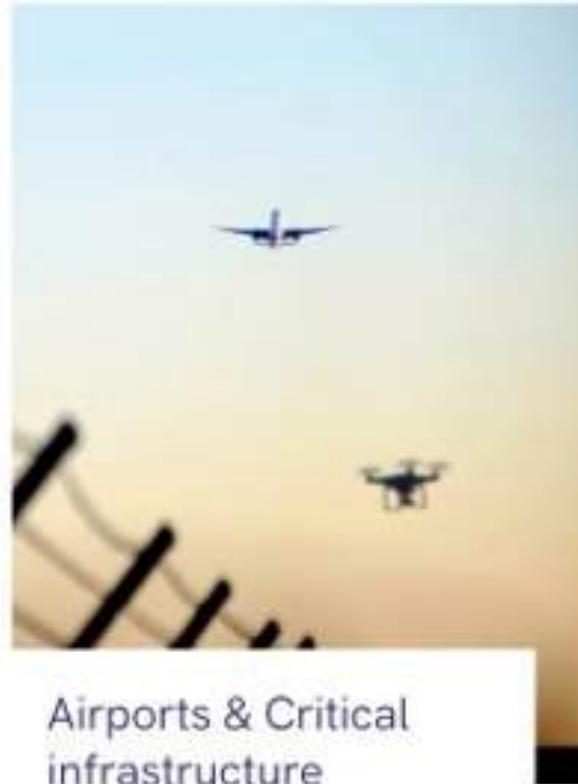


Drone traffic management solutions for 3 segments

Airspace Management



Airspace Protection



Fleet & Ops Management



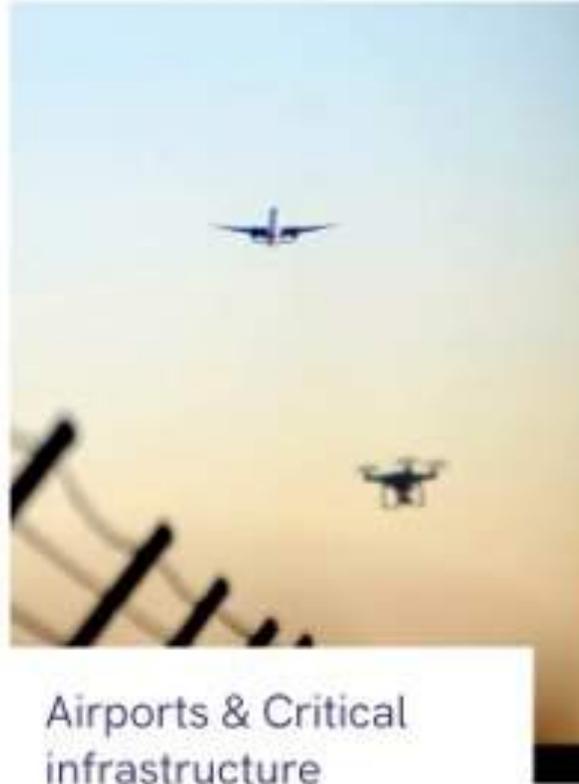
Drone traffic management solutions for 3 segments

Airspace Management



ANSPs & Aviation
authorities

Airspace Protection



Airports & Critical
infrastructure

Fleet & Ops Management



Enterprise Drone
Operators



National deployment in Canada

Drones in Canada (April 29, 2022)

- Drones registered: 67,785
- 'Basic' pilot certificates: 67,971
- 'Advanced' pilot certificates: 7,478



NAV Drone: 1 Platform, 3 Interfaces

- Public Map → For everyone: learn where it is safe and legal to fly
- Operator Portal → For operators: submit flight plans and receive authorizations
- Supervisor Portal → For NAV CANADA: dynamically manage the airspace

Benefits since the NAV Drone system launch in June 2021

- High adoption rate
- Enable access to the airspace without compromising on safety
- Time saved for NAV CANADA (automated approval process)



Search for locations...

CONNAUGHT RANGE (CYR531)

Category
Restricted airspace

Lower limit
0 ft AGL

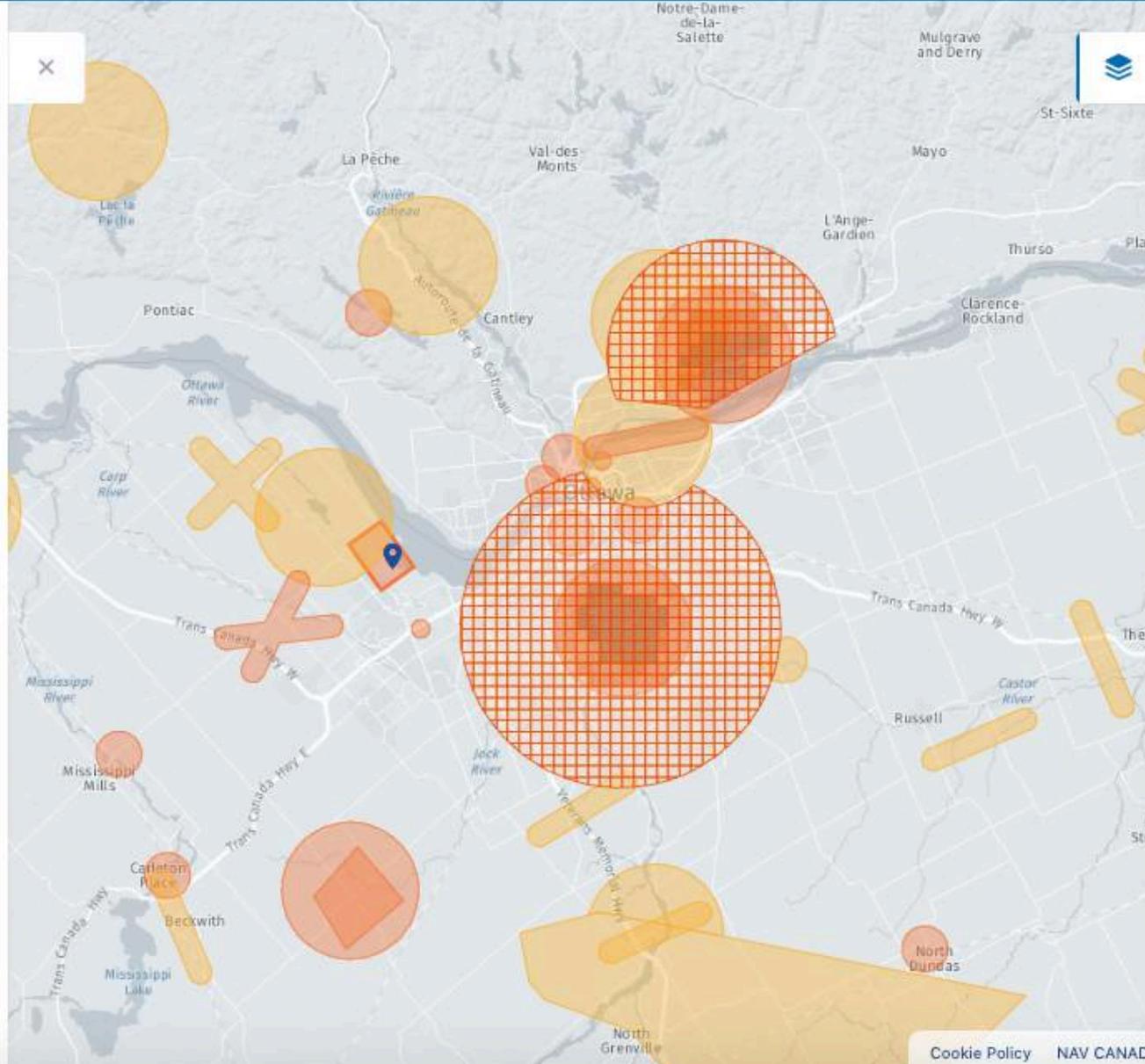
Upper limit
1000 ft AMSL

Contact

Last name
Connaught Range

Control

Time designation
Cont



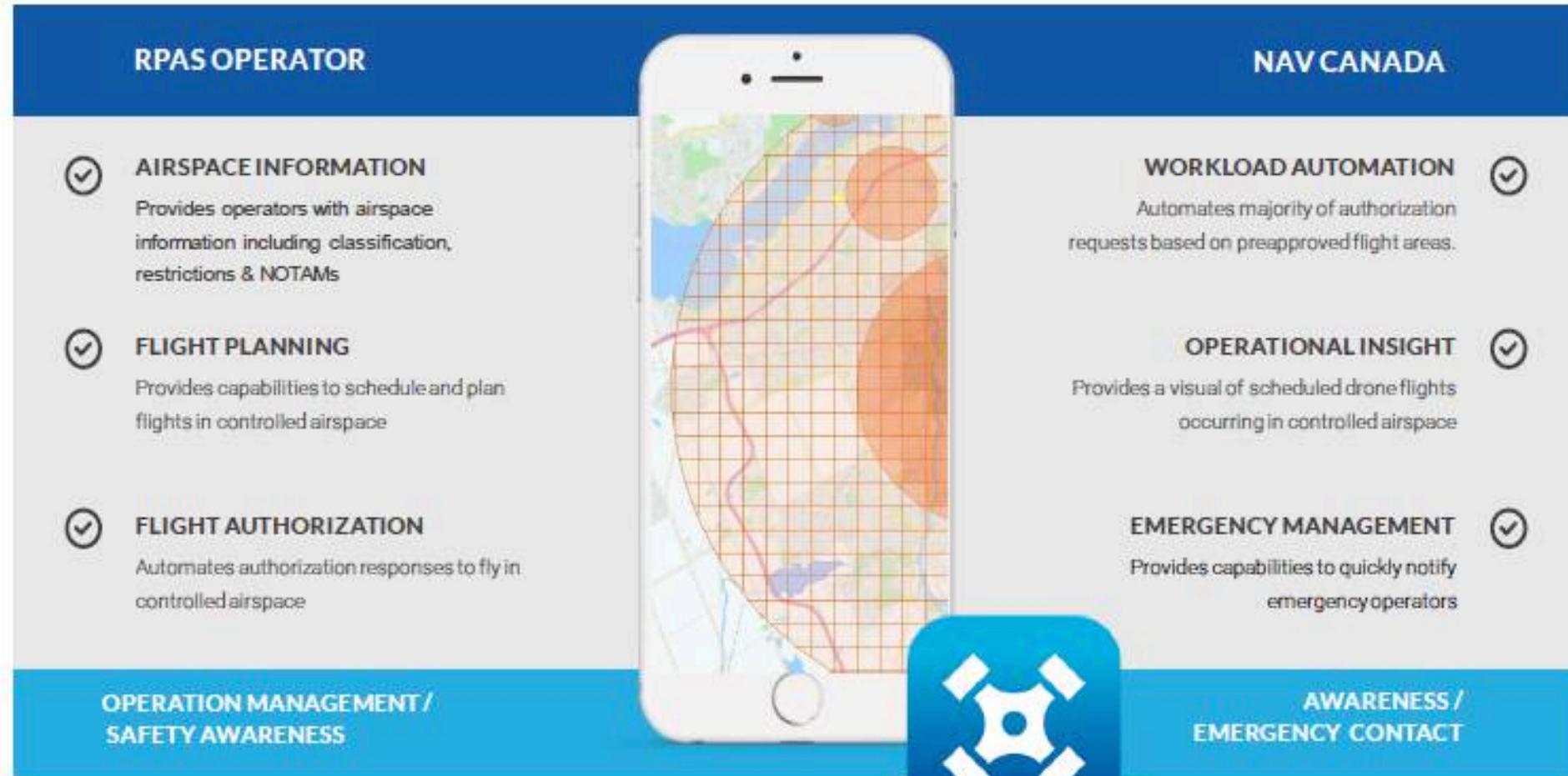
Map layers

Latest refresh: 17/03/2022 15:02

Show layers: **Advanced**

- Controlled airspace
- Delegated airspace
- Class F airspace
- Restricted or danger
- Other
- Airports
- Certified or military
- Registered
- Parks
- Grids
- Additional NOTAMs
- Temporary no drone zones

More about NAV Drone: <https://www.navcanada.ca/navdrone>



Deploying a national system is a stepped approach



- Easy-to-access channels (web & mobile apps)
- Readable airspace data
- Flight validation



Maximize compliance

- Dynamic flight restrictions
- Automated approvals
- Strategic deconfliction
- Insights and analytics



Automate the processes

- Real-time tracking
- Interface with ATM
- In-flight deconfliction
- Capacity management



Full situational awareness



Drone traffic management solutions for 3 segments

Airspace Management



Airspace Protection



Fleet & Ops Management



Seaports – Elevate operational safety to the 3rd dimension

EWOBND **Compliant**
Weather Flight
ID: U00000

Follow drone

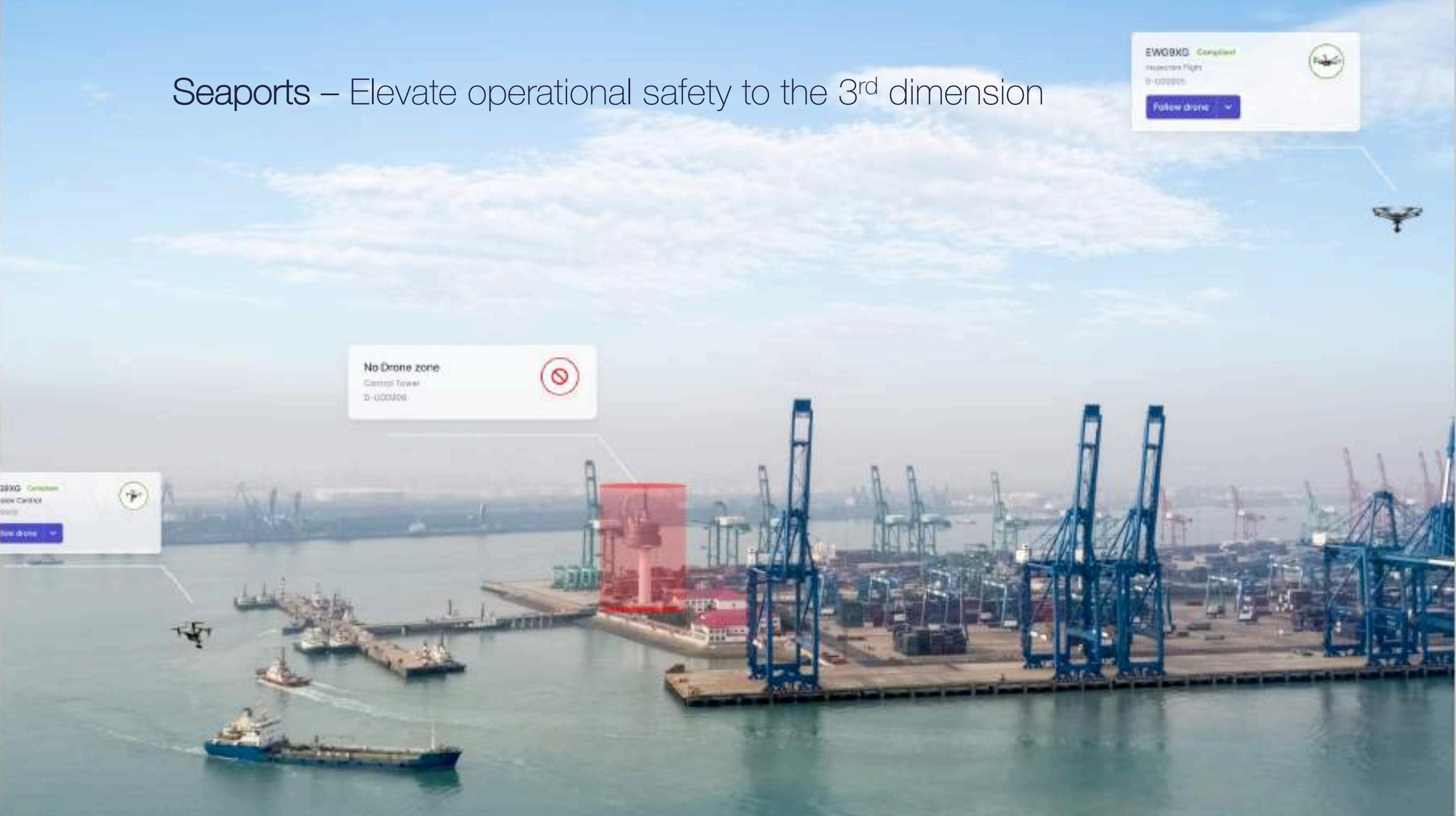


No Drone zone
Control Tower
ID: U00000



EWOBND **Compliant**
Weather Flight
ID: U00000

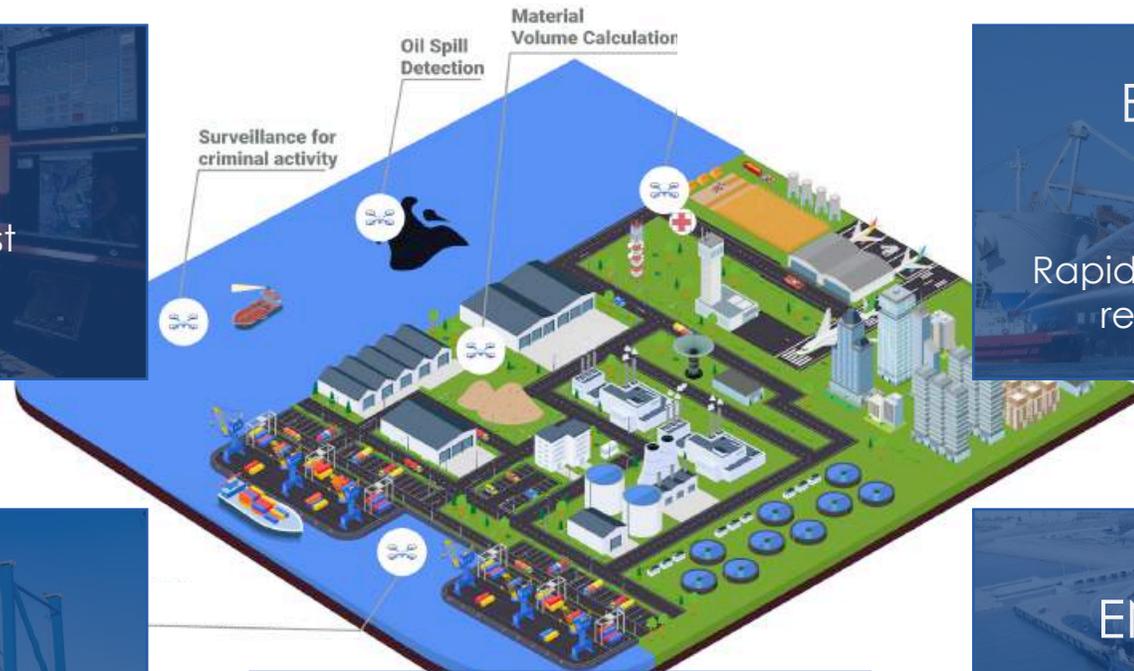
Follow drone



Countless use cases for the Port ecosystem



SECURITY
Surveillance against unlawful activities



EMERGENCY RESPONSE
Rapid response, search and rescue, AED delivery



INSPECTION
Preventive maintenance, stockpile volume measurement



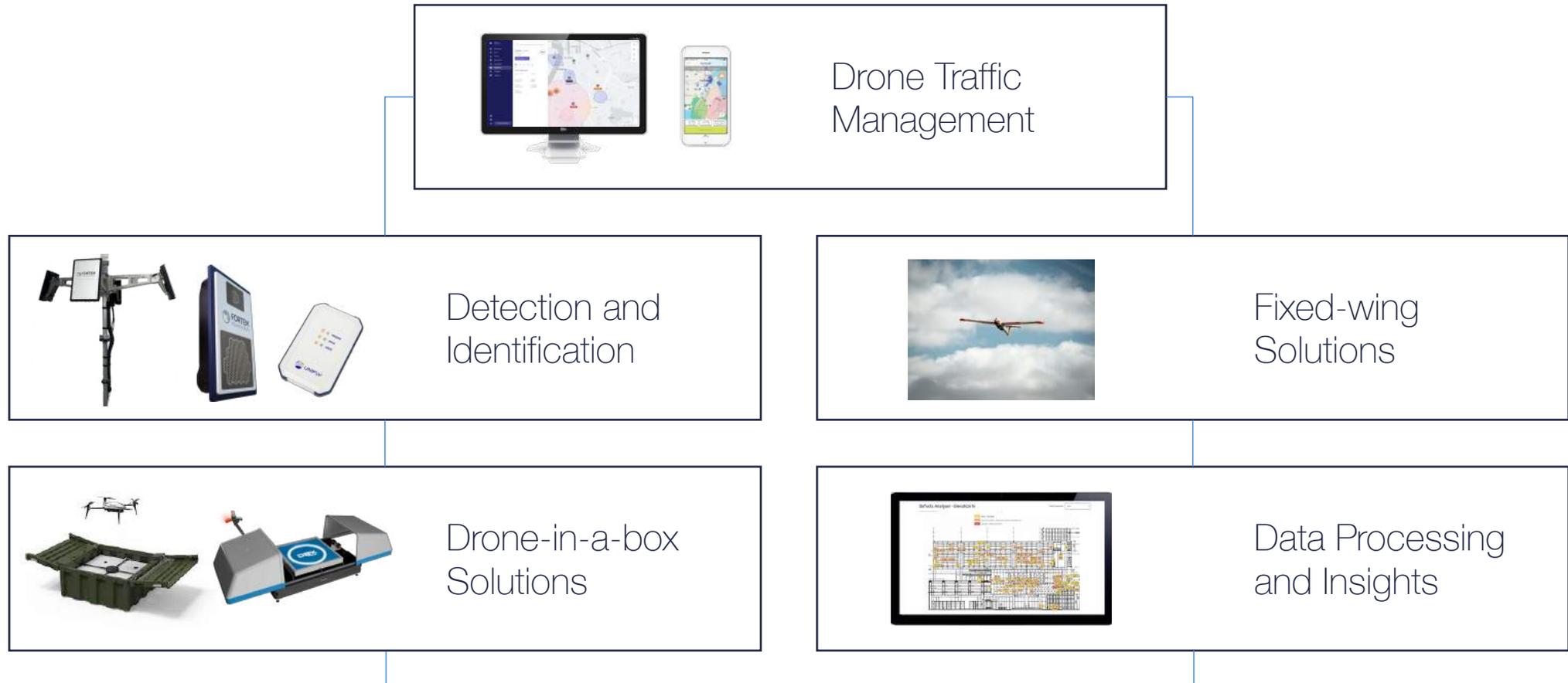
DIGITAL TWIN
Data at the service of the Port's operations



ENVIRONMENT
Spillage, leakage, and exhaust detection



A 'system of systems' offers a modular and scalable solution



Critical infrastructure: Ports of Antwerp and Hamburg

Port of Antwerp

- System deployed in March 2021
- Area covered: ~120 km²
- PoA named 'Geozone Manager'
- Next step: 'Drone as a Service' (DaaS)



Port of Hamburg

- System deployed in September 2021
- Area covered: ~30 km²
- Led by partners DFS (ANSP) and Droniq (USSP)
- Sandbox to inform national initiatives in Germany



Secure the port area and leverage the benefits of RPAS



Annual Industry Award 2020



Thank you

Laurent Huenaearts | General Manager, Americas | laurent.huenaearts@unify.aero



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