

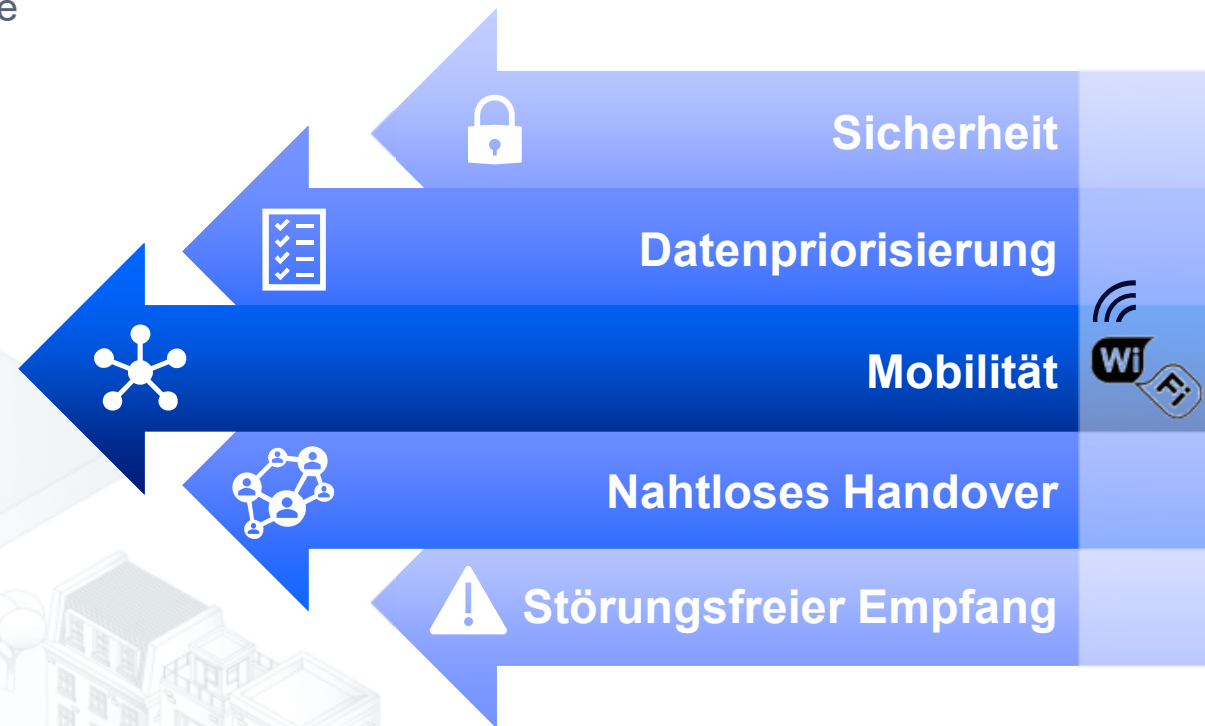
Drohnen – im Einsatz für die Sicherheit

Europäischer Polizeikongress, 03.05.2023

Nikolaos Kalivianakis, Director Business Solutions, O₂ Telefónica

Private 5G – Die Vorteile eines privaten Netzwerks bei O₂ Telefónica

- “**Shared**” **Betriebsmodelle** gemäß Kundenstrategie
- **Höchste Netzwerkverfügbarkeit** durch dedizierte Betriebsprozesse
- **End-to-end Erfahrungsaustausch** einschließlich Global IoT und 5G Device THINX LAB
- Support bei **Regulierungs-, Standardisierungs-,** und administrativen Fragen
- Option **öffentliche und private Netzwerke** sicher zu kombinieren
- **Herstellerunabhängige** Netzwerktechnik



Aktuelle Trends beschleunigen die Digitalisierung in Industrie und Logistik

Herstellung neuer, digitaler Produkte



- Hohe Personalisierung
- On-demand Produktion



Höchste Verfügbarkeit für komplexe Maschinen



Effizienz- und Qualitäts-Sicherungsdruck in der Produktion und Logistik

Markteffekte beschleunigen die Industry 4.0



Globale Logistikkette



Energiekosten und Nachhaltigkeit

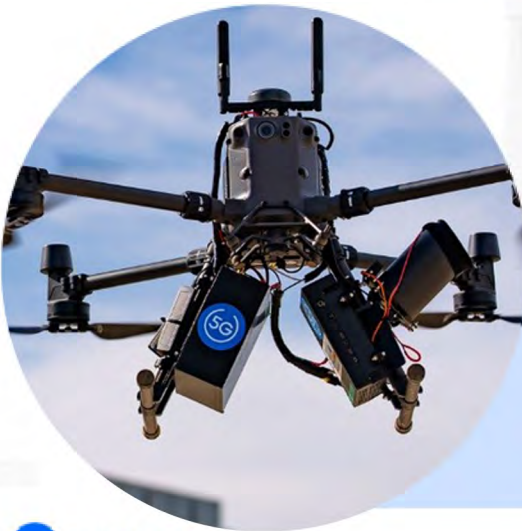


Mangel an qualifiziertem Personal

Erfolgreiche Partnerschaft von Unmanned Life und o2 Telefónica

Herausforderung

- 24/7 Überwachung des Geländes durch Sicherheitspersonal
- Falscher Alarm verursacht unnötige Einsätze
- Übermittlung von Videoaufnahmen sicher und in Echtzeit über ein zentrales Sicherheitssystem



Die Vorteile



80 x schnellere Reaktion



35 % Einsparung von operativen Kosten



66 % weniger Arbeitszeit bei Überwachungstätigkeiten



15 x ressourceneffizienter als manuelle Überwachung



Zusätzliche Inspektion der PV-Anlage auf dem Dach

Die Lösung von Unmanned Life:



2 autonome
Drohnen



KI zur
Gesichtserkennung



nahtlose Integration in die
Kommandozentrale



Public 5G-
Konnektivität

THE SOFTWARE PLATFORM

FOR SEAMLESS ORCHESTRATION
OF AUTONOMOUS ROBOTICS

WWW.UNMANNED.LIFE



03.05.2023
5G World
Computing Award





Enhance the Entire Ecosystem Through:

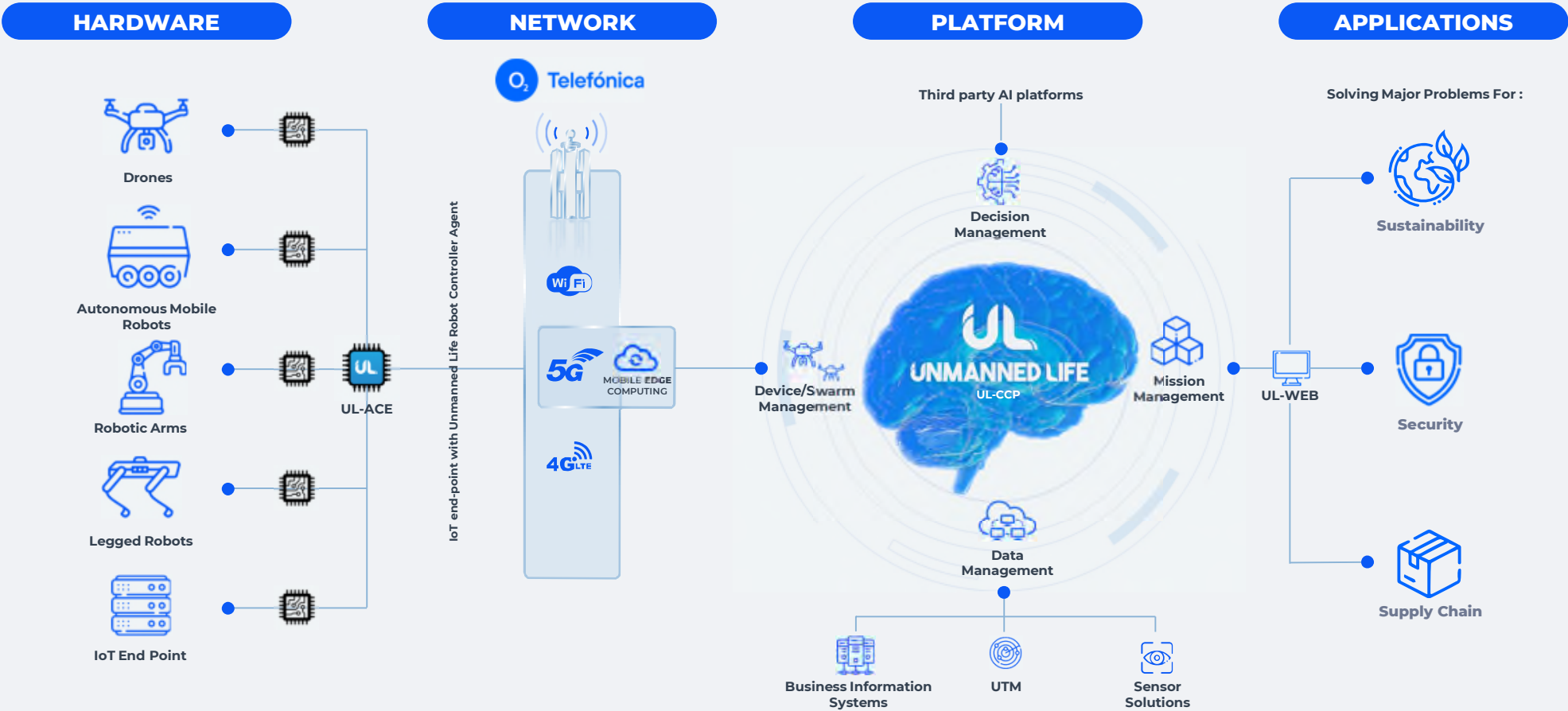
ONE PLATFORM

to autonomously deploy, control, and orchestrate
fleets of robots and drones





Platform Architecture



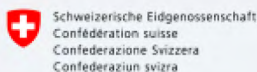


Regulation Proof

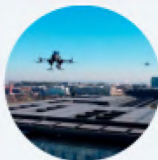


We have a **global partnership** with **EU Drone Port**:
European Drone Hub for Testing, **Certification**, Training & **Authorisations**.

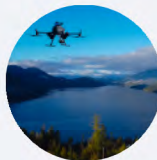
We have obtained **permits** in **8 jurisdictions**:



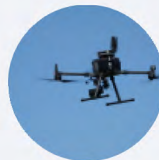
Use cases 5G:



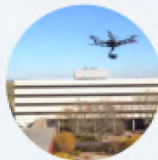
Autonomous drone surveillance
Autonomous
Swarm
Telefónica



Mapping and Monitoring
BVLOS
TELUS



Surveillance
BVLOS



Surveillance and Inspection
BVLOS
Autonomous
IBERDROLA



Logistic – Multi-Robotics Operation
BVLOS
Payload dropping
SEAT



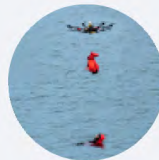
Autonomous Security and
Asset Tracking
Swarm
cellnex



Cell tower Inspection
Autonomous
Swarm
etisalat



Indoor Inventory Management
Autonomous
Swarm
Telefónica



Drone Fleet Search & Rescue
Autonomous
Swarm
Magenta

Your Autonomous Eye In The Sky

Revolutionizing Security with an Autonomous Drone-in-a-Box application, delivering efficiency and precision



U-SECURITY
By Unmanned Life

U-SECURITY

By Unmanned Life
Your Autonomous Eye In The Sky

Introducing Unmanned Life's cutting-edge fully autonomous drone-in-a-box surveillance product delivers efficiency and precision, whilst seamlessly integrating into diverse settings and systems.



**Drone Fleet
Orchestration**



**Autonomous
Surveillance Missions**

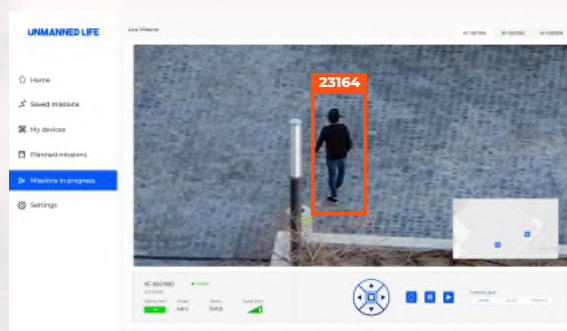


**24/7
operations**

WIDE VARIETY OF USE CASES



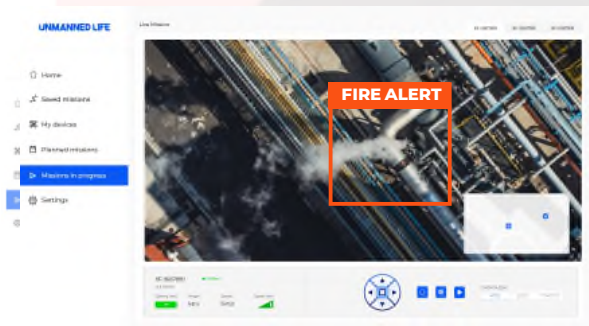
SITUATION AWARENESS



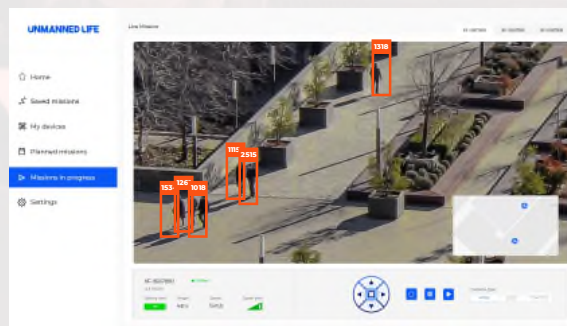
INTRUSION DETECTION



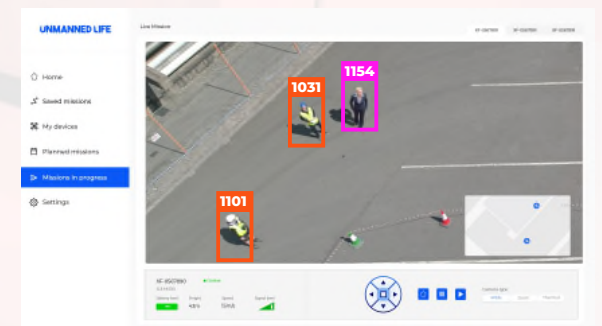
MONITOR KEEP-OUT AREAS



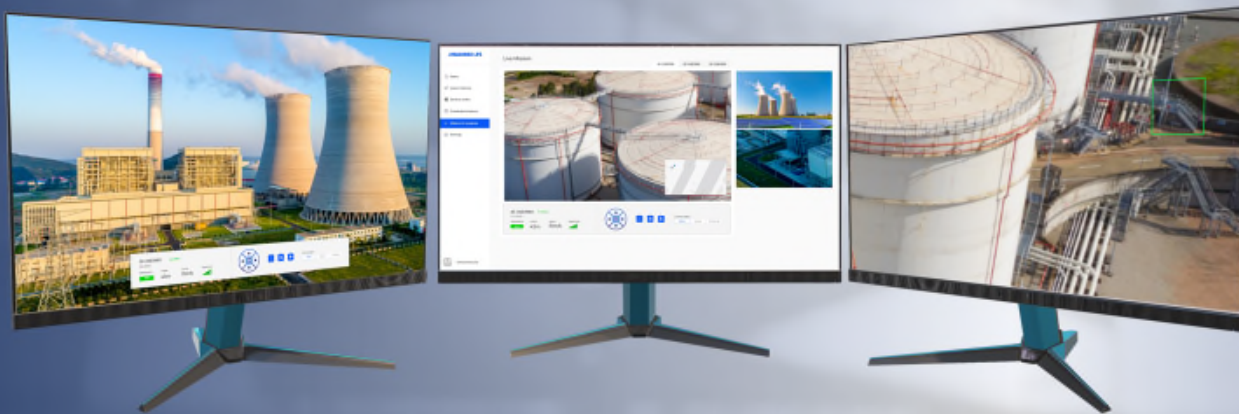
FIRE DETECTION



PEOPLE TRACKING



PPE COMPLIANCE



UNPARALLELED SECURITY CAPABILITIES



BVLOS Ready

Operations can be conducted remotely, regardless of the distance



Swarm Orchestration

Coordinating teams of autonomous drones to work together for security rounds



AI-Powered

Autonomous decision-making through AI for advanced analytics



Network Agnostic

Ensuring seamless connectivity, regardless of the type of on-site network



Secured Data Flows

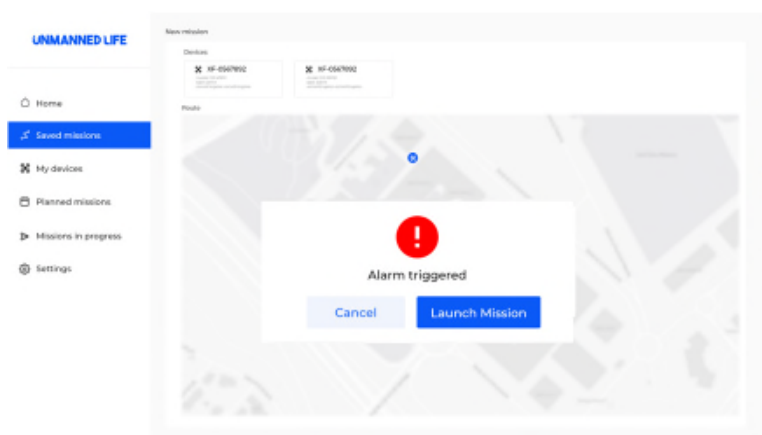
Layering mobile network protection alongside our cybersecurity protocols



Modular

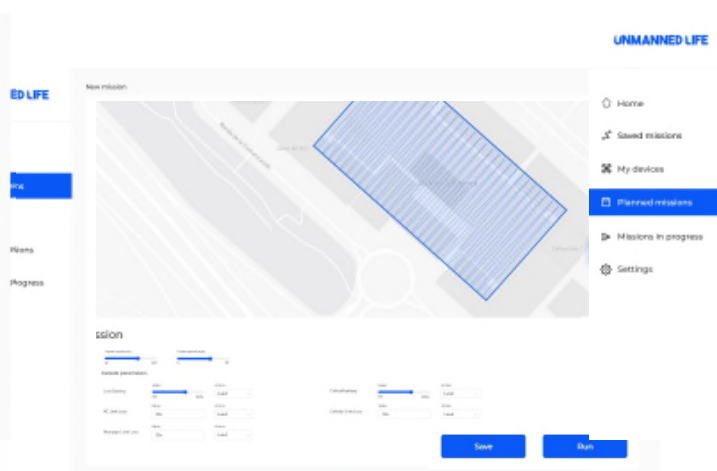
Easy to maintain and upgrade, with frequent new feature releases

MULTIPLE



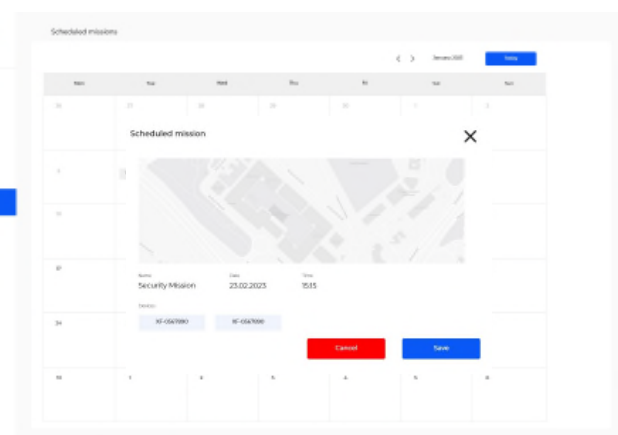
Event Trigger

Ensure situational awareness with autonomous drone launches to sensor locations



On-Demand

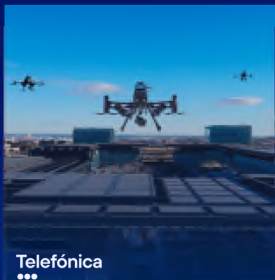
Select the mission and parameters in real time for prompt security rounds ad-hoc.



Scheduled

Upload predefined missions to the platform to ensure frequent surveillance rounds

OUR GLOBAL FOOTPRINT



Telefónica

Enterprise Headquarter Surveillance
Spain



IBERDROLA Telefónica

Facility Surveillance
Spain



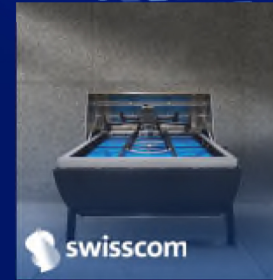
THE BRISTOL PORT COMPANY cellnex

Standard and Triggered Port Surveillance
United Kingdom



TELUS

Multi-Site Surveillance Pilots
Canada



swisscom

Enterprise Facility Triggered Surveillance
Switzerland



LIBERTY GLOBAL AWS

EDGE-Hosted Port Surveillance
Belgium



Telefónica

Drone-Based Situational Awareness
Germany