

Nokia Drone Networks

Drones as a Service to modernize Public Safety infrastructure

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15 August 2024 San Marcos, USA

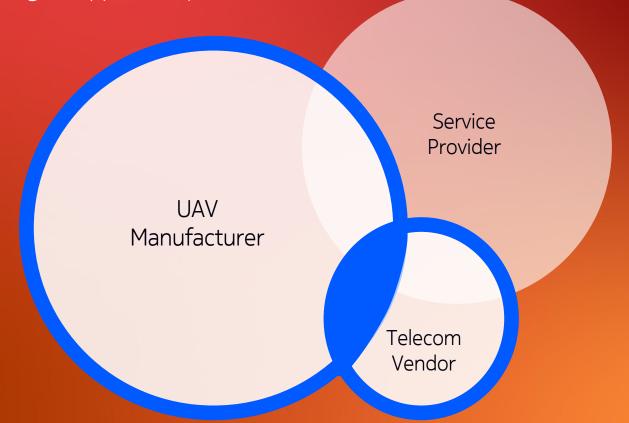
Technology that helps the world act together

Nokia Drone Networks – A turnkey Drone-in-a-Box solution for Drones as a Service



Nokia Drone Networks – Skillset evolution with Telco know-how

Finding the right supplier for your environment



Nokia Drone Networks – Skillset evolution with Telco know-how

Flying Lion & Drones as a first responder

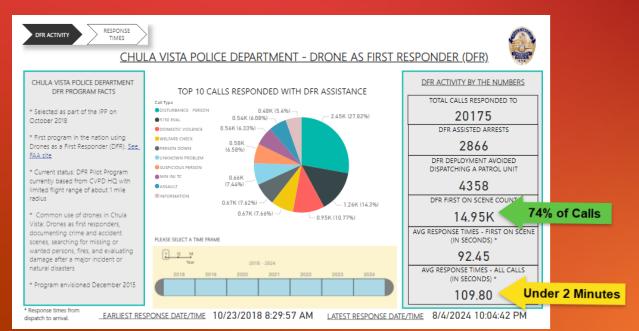
Drone as First Responder (DFR) program:

- Drone with Ability to Fly Within 30 Seconds Rooftop Drone with Pilot or Dronein-Box
- Immediate response to a radio call, computer aided dispatch (CAD), Live911 and/or an Automated System (e.g. gunshot detection, alarm system, or Automatic License Plate Reader (ALPR))
- Flown by Sworn Officer with Rooftop Remote Pilot in Command (RPIC) and/or Visual Observer (VO)
- Visibility of National Air Space (NAS) via Rooftop RPIC/VO or in future 'digital visual observer' technology
- Live Stream to command, dispatch and patrol
- Visual Line of Sight (VLOS) with Waiver can receive Beyond Visual Line of Sight (BVLOS) – 2 mile "Visual Detection Area" around the drone





Nokia Drone Networks – Skillset evolution with Telco know-how Flying Lion & Drones as a first responder







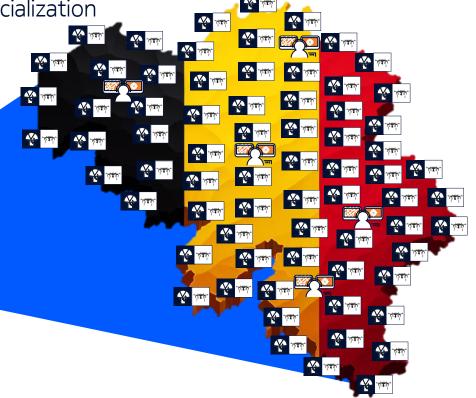


Nokia Drone Networks in Belgium

Boosting BVLOS and broadening commercialization

- 70 Nokia Drone Networks Systems
- Plug & Play deployment Service & SLA's
- 40 Pilots in shifts, concurrently 10 on duty
- 5 Remote Operation Centers with 2 seats
- Public, Private & Hybrid Network setups
- Prime customers: Firefighters, Police, Utilities,



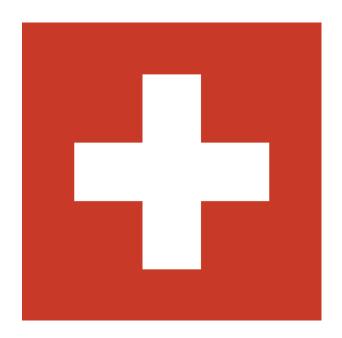






Nokia Drone Networks in Switzerland

The next big thing









Nokia Drone Networks – Native 3GPP connectivity on-board Cellular connectivity and its core strenghts

Mobility



Reliability



Security





Quality of Service



C2 & Payload



BVLOS





Nokia Drone Networks as a technology enabler Private & Public networks to satisfy the needs of industry









Enablement of Digital Twins



Industrial inspections



Saving lives



Asset tracking



Perimeter security



Environmental sustainability



Nokia Drone Networks – Business model evolution Uber analogy – Success factors for a functional "aaS" model

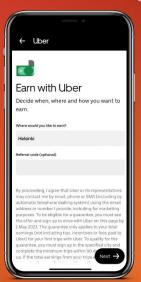
- Easy access
- Scalable
- Multi-platform



- Servicel Levels
- Pay per ride
- Predictability



- Easy onboarding
- Local regulations
- Revenue sharing



- Different services
- All "transportation"





Thank you!





Nokia Drone Networks - Welcome to Infrastructure 4.0

The overlap of Nokia Drone Networks with Infrastructure service projects

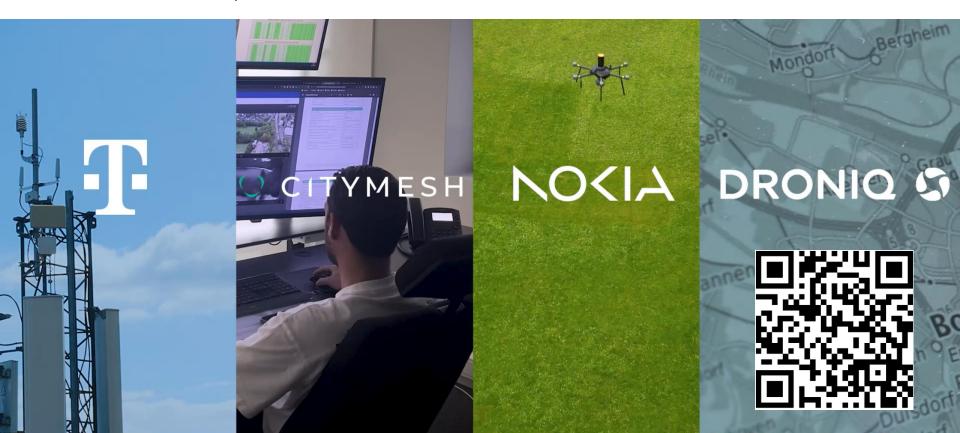
Deployment Location		Power	Infrastructure		Connectivity Backhaul	Customer	
MNO Networks	2		+	+	+	0	
E-Mobility Gas stations	2	+ (F)	+	+	+	0	A
Video surveillance Smart City	<u> </u>	+ (F)	+	<u> </u>	+	0	(\$)\$
Nokia Drone Networks			+	Ē ☆ Ū +	+	0	





Nokia Drone Networks – Ecosystem collaboration

5G Monetization capabilities



Nokia Drone Networks – Business model evolution Car industry analogy – The right models for scaling towards a fleet



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