ROBOTICAN
AUTONOMOUS ROBOTICS

ROOSTER

SERIES OF
MULTI-ACCESS
EDGE COMPUTING
LIVE PANELS

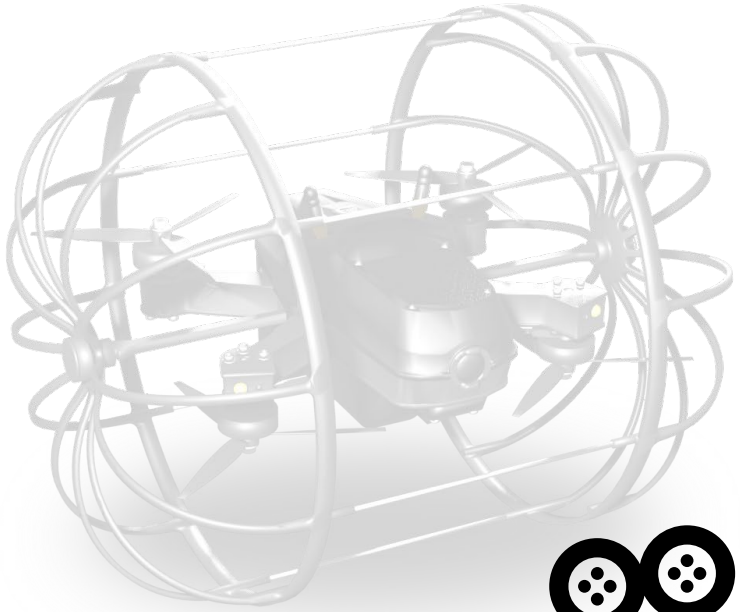
ETSI MEC meets vertical markets:
APIs exposure helping the Drones Business

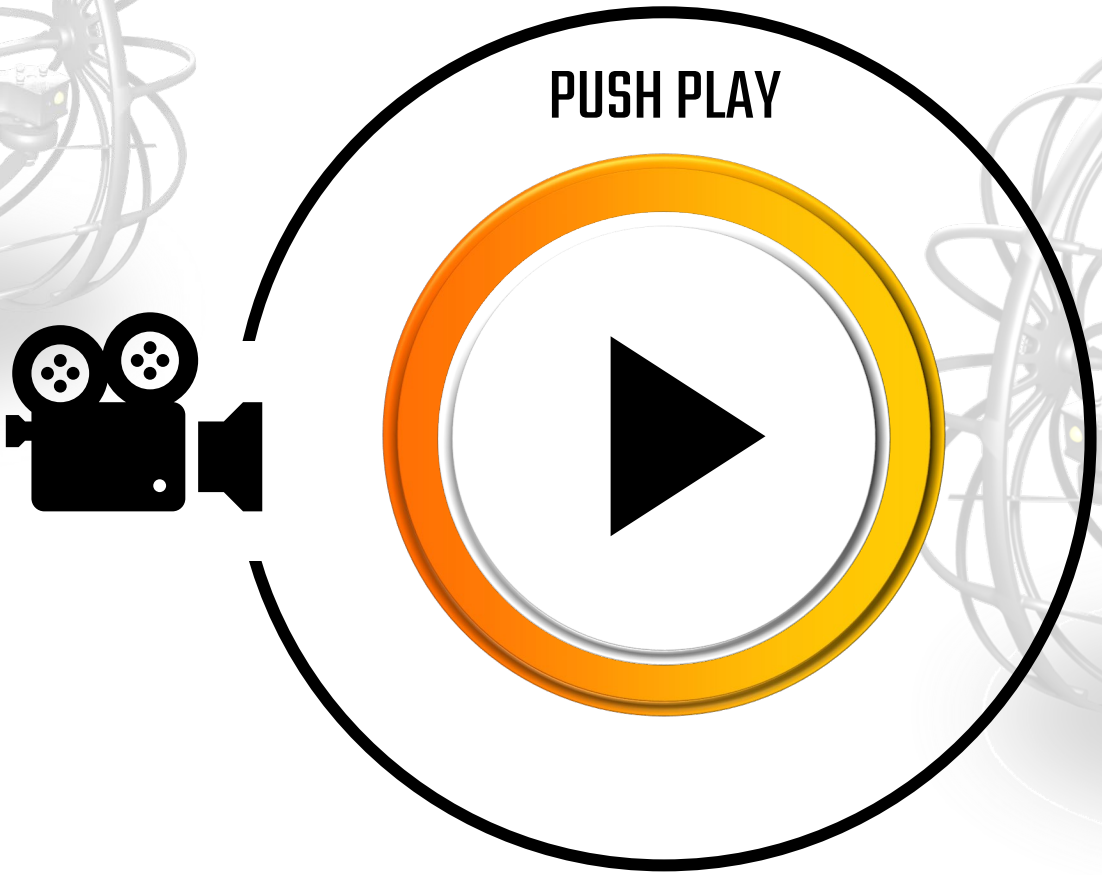
DR. YAM GEVA

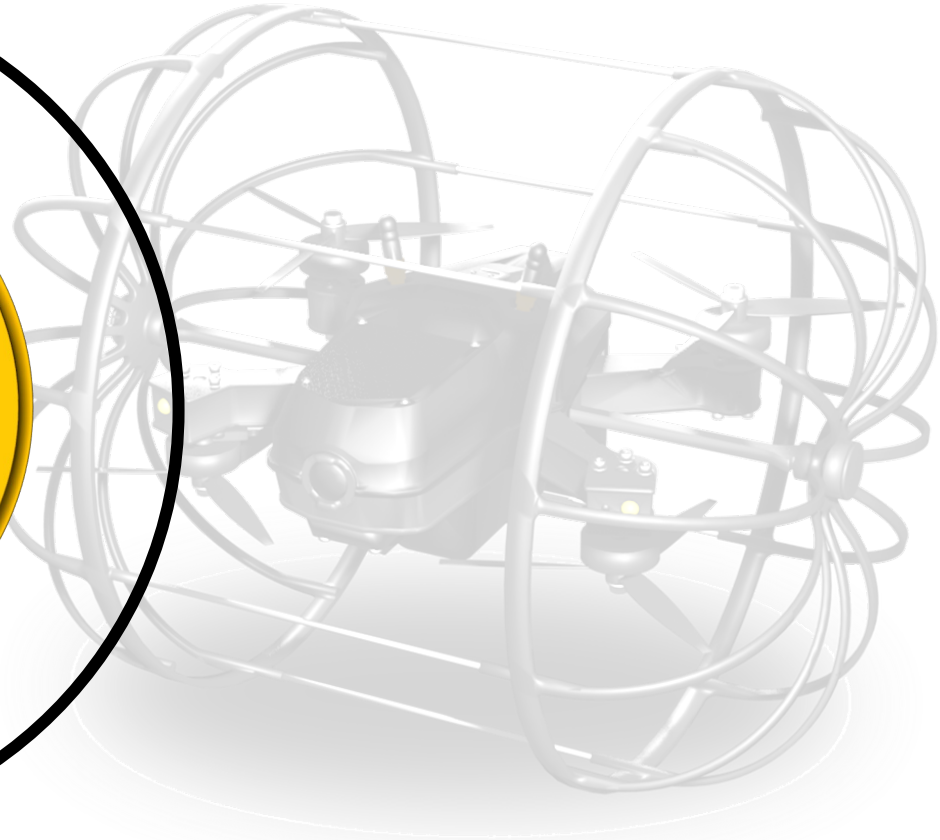
Unleashing the Rooster Drone's Potential: The Crucial Role of Network Connectivity

Monday 26 June 2023

POWERED BY | NOKIA | ETSI







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ROOSTER APPLICATIONS & USE

- Indoor and underground surveillance
- Building scanning
- Infrastructure mapping & inspection
- HLS and Defense applications

Caves

Buildings

Ruins

Tunnels

First Responders

Preventative Maintenance Inspection

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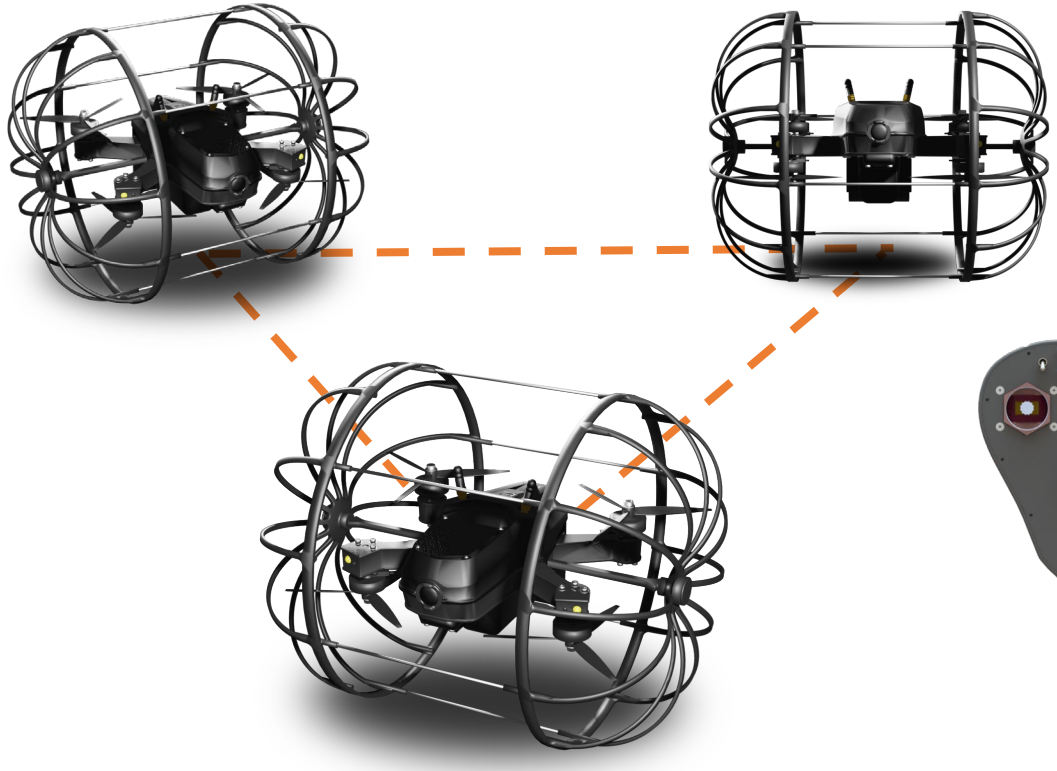
The Rooster

- Unmanned hybrid platform
- Rolls on the ground and flies when needed
- Stationary on any surface
- MESH communication
- Indoor, outdoor & underground



- 3 Roosters
- 1 Control unit

The first worldwide hybrid Mobile robot with drone capabilities for indoor operations

Simultaneous access all drone’s FPV video streams on a single control unit

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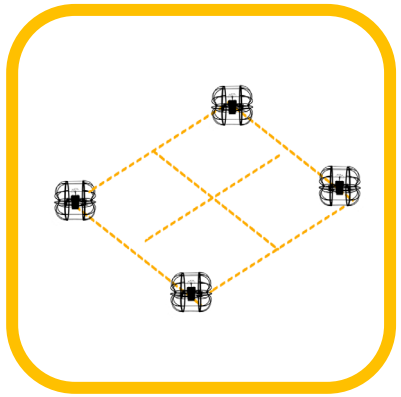
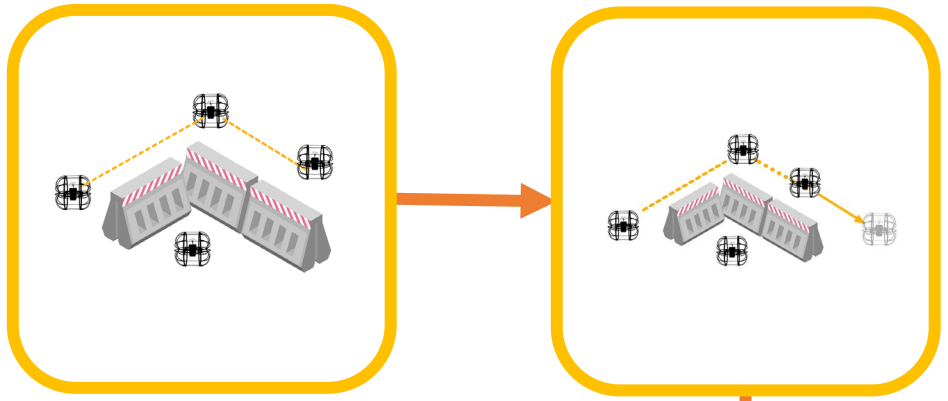
MESH
Communication

- RF or Cellular
- Enabling communication between drones
- Self forming & self healing communication
- Communication deprive/denied environments

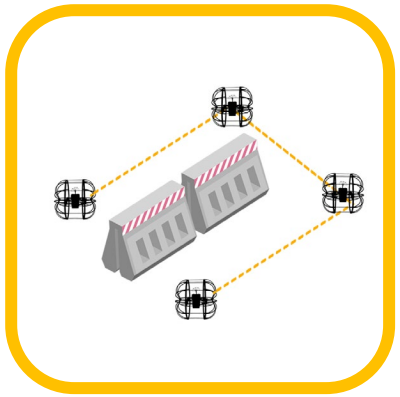
MESH LOS

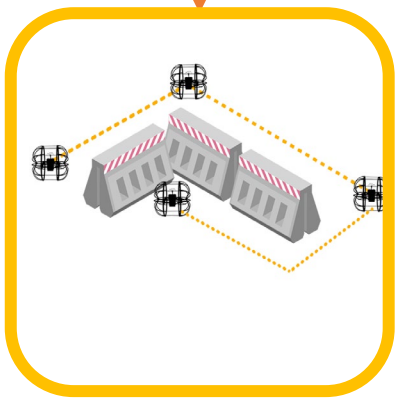


Self forming & Self healing



MESH NLOS





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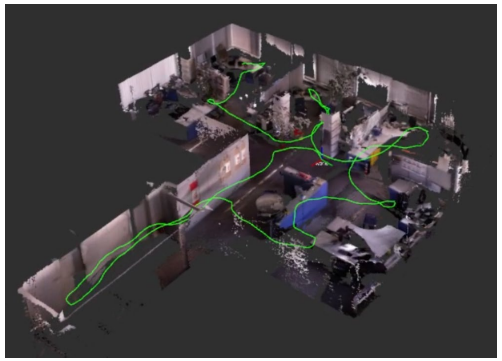
Edge Computing

Robot Level Capabilities

- Object detection
- Situational awareness
- Autonomous navigation
- Simultaneous Localization and Mapping (SLAM)
- Human-Robot Interaction (HRI)



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Edge Computing

Operator Level Capabilities

- Low video latency
- Less attention – more robots
- Less computing resources on the ground

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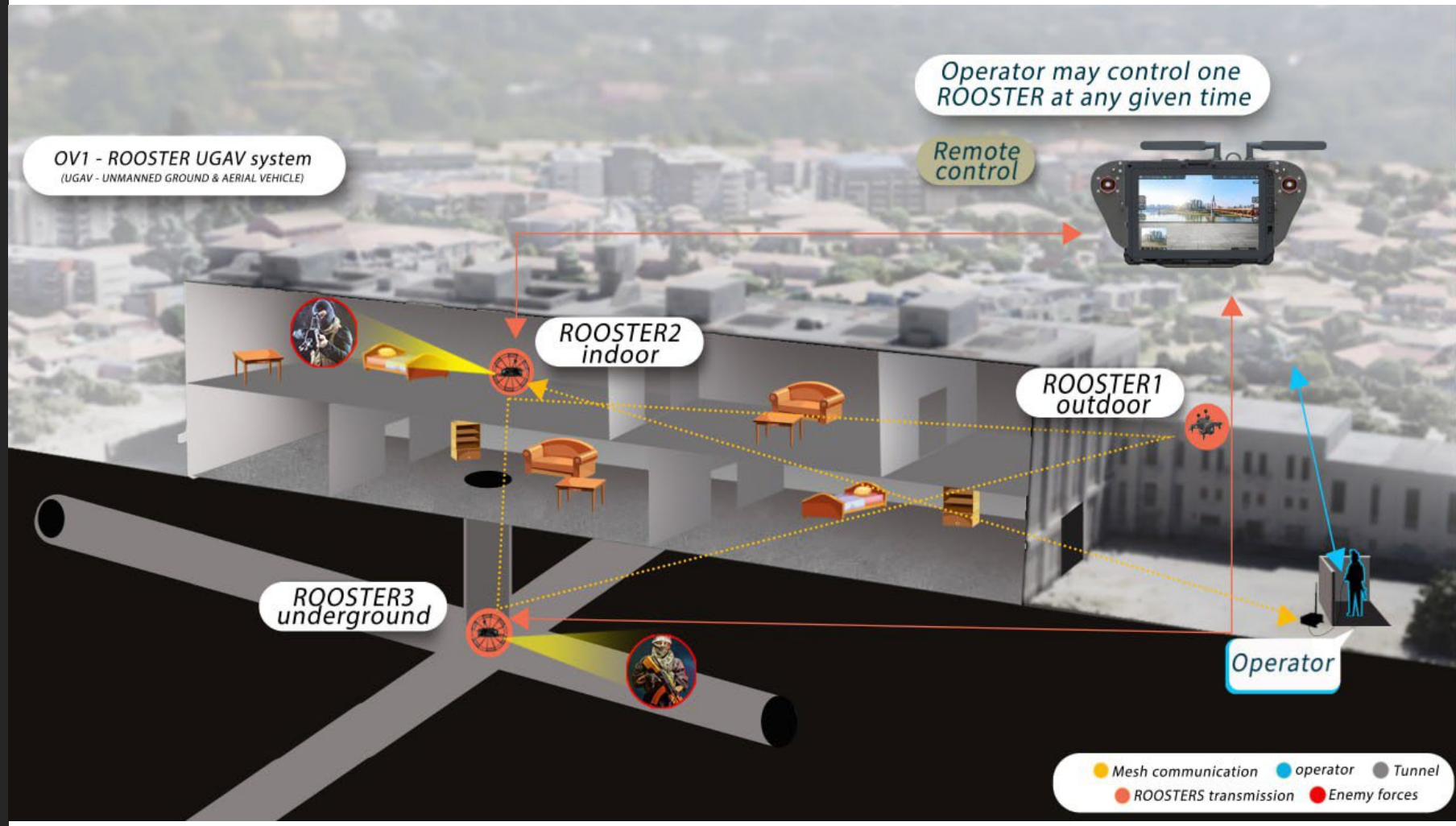
Edge Computing

System Level Capabilities

- Low bandwidth
- Improve security
- Increase scalability



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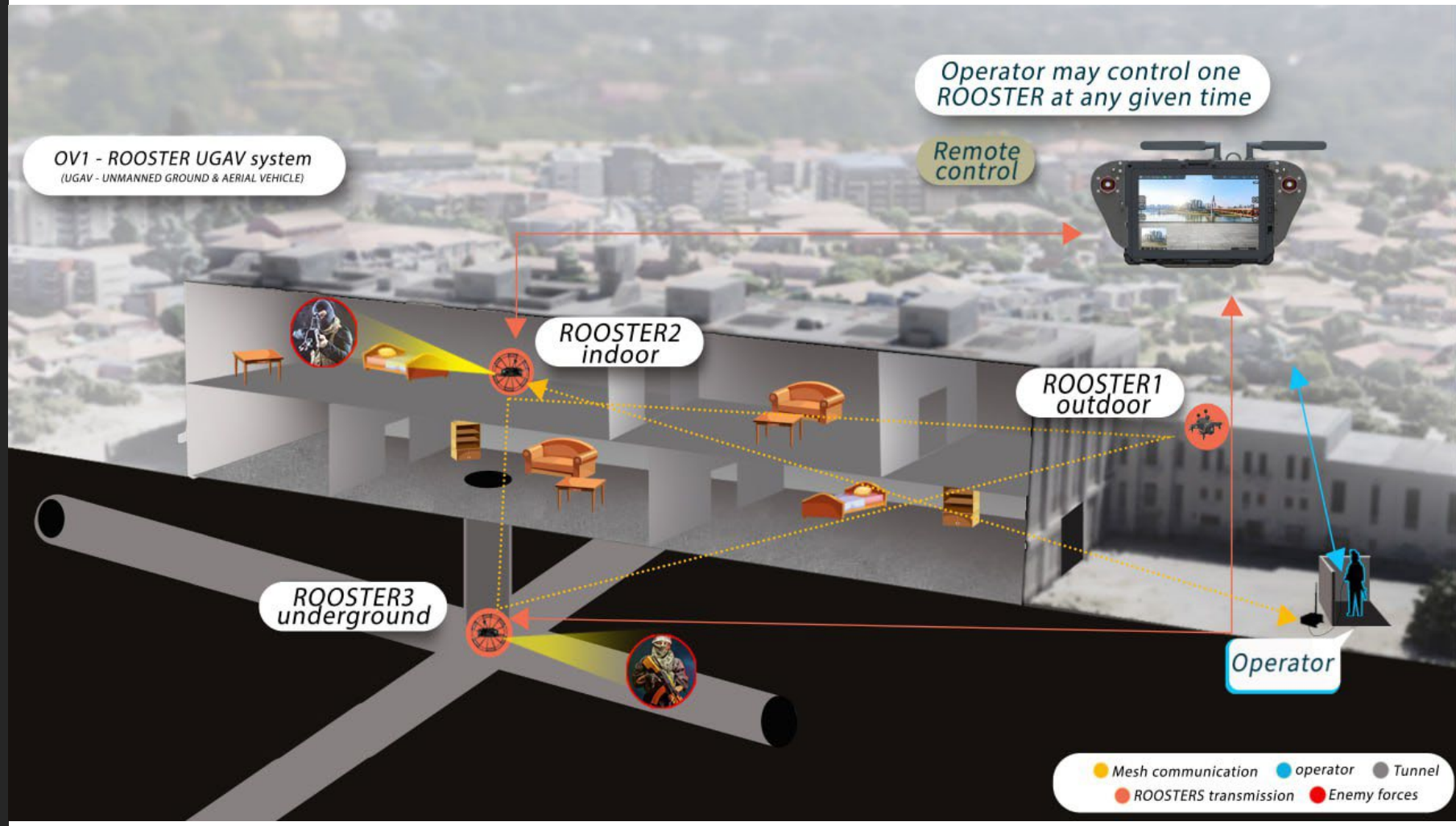
Smart network

- Multi agent coordination
- Adjustable autonomy level
- Continues operation



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THANK YOU

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