



BELRIM / VANBREDA EXCHANGE - DRONES

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Droneport, Belgium

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# Objectives within Insurance companies

- better risk management through improved data collection -  
> Predictive analysis
- reduced operational costs through improved efficiency and effectiveness related to claims
- Being competitive



# Who we are

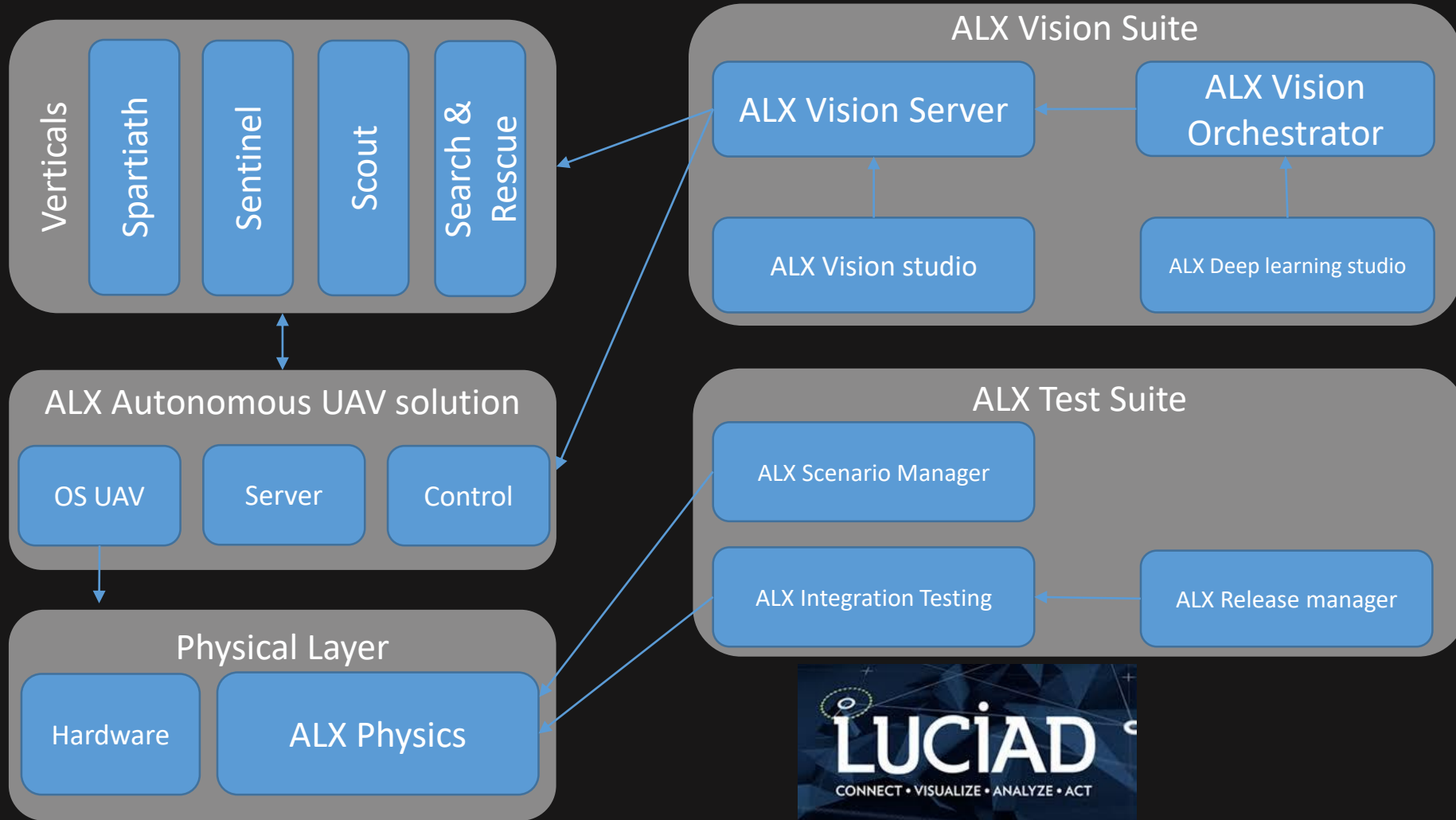
- Technology Startup in Liège
- Active in the realisation of 2nd gen Drone technology
- We improve your time to market
- We support customers with their Project/Product development
- ALX Product line to integrate easily capabilities
- Strong focus on
  - Artificial Intelligence – Real-time Video analysis – Deeplearning
  - Autonomous drones/Sensor integration
  - Autonomous drone solutions



# Target customers

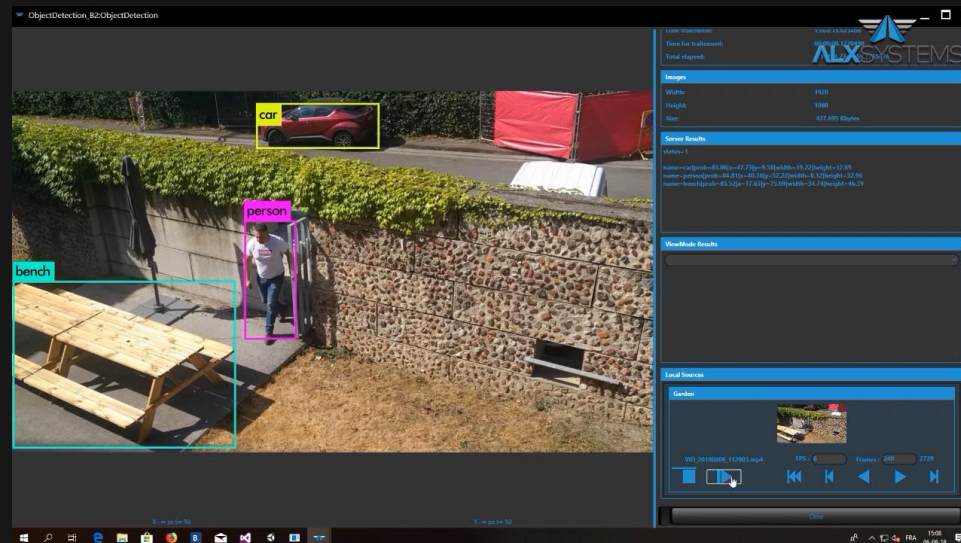
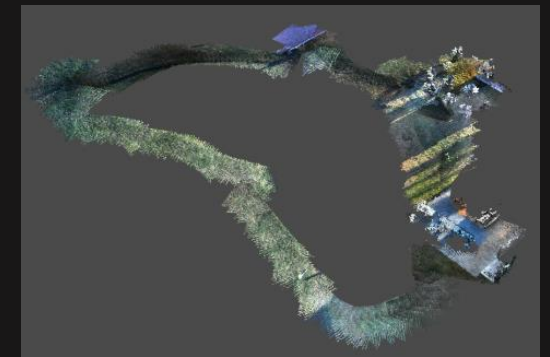
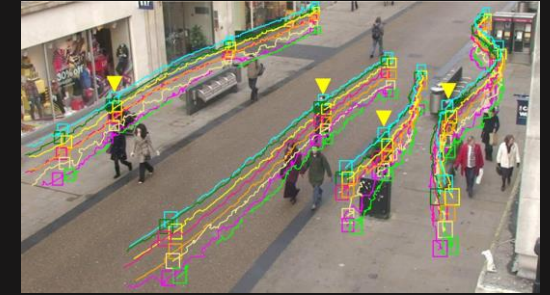
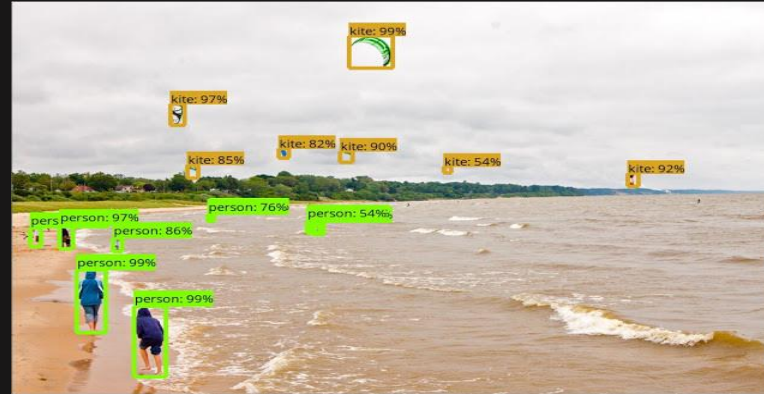
- System integrators
- Drone builders
- Drone Service providers
- Airports
- Security Companies
- MOD ( C- UAS & Special forces)

# ALX Product Line



# ALX Vision Suite

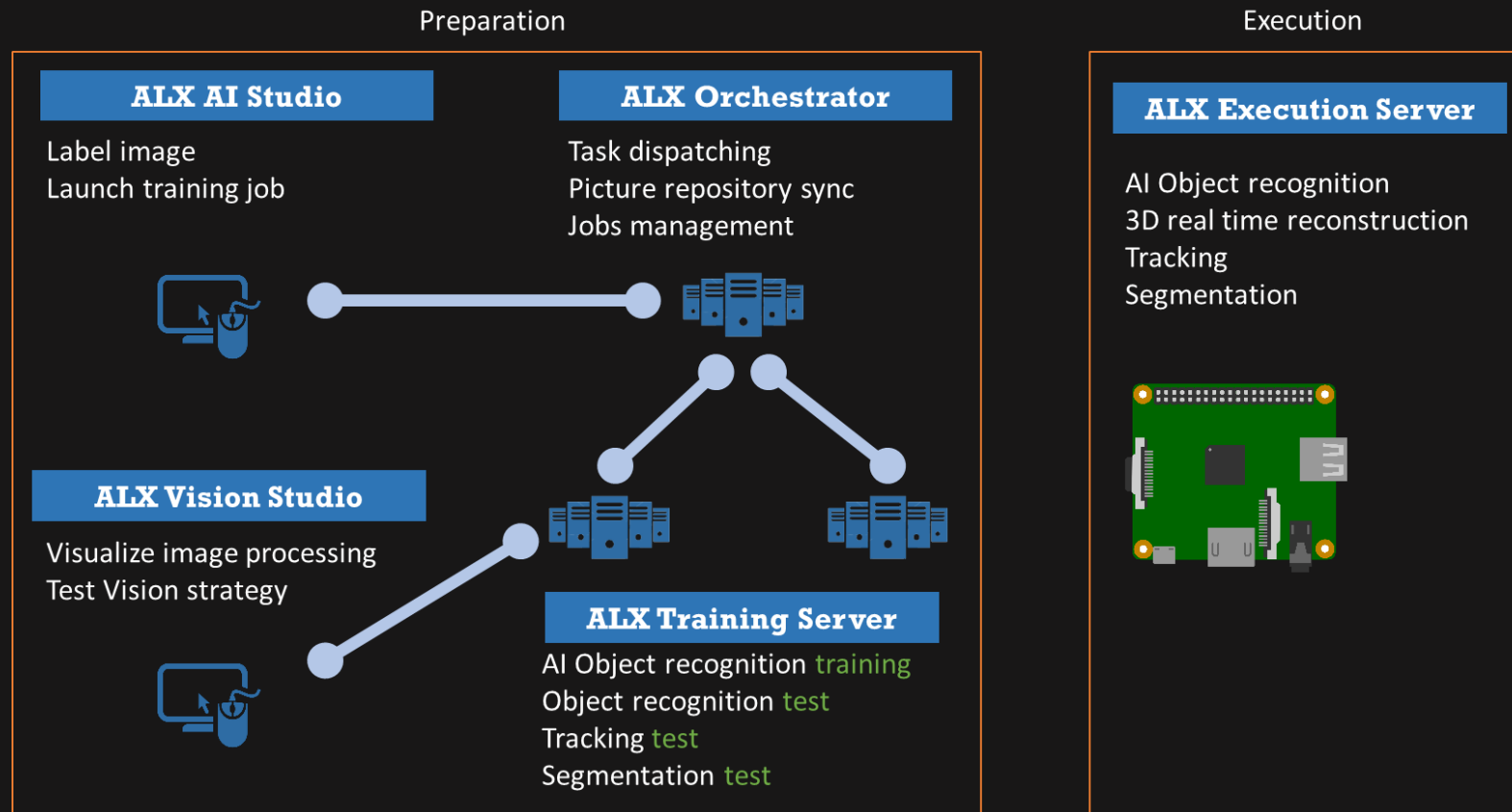
- Deep learning
- Object recognition
- Tracking
- Scene analysis
- 3D Reconstruction
- SLAM
- Environment analysis



# ALX Vision Suite

- A complete software solution to create, maintain and exploit your Deeplearning solution
- Can be deployed in the cloud, on premises or embedded in camera's, drones,...
- Any video, thermal or infrared camera can be used
- Includes Deeplearning Studio, Orchestrator and ALX Vision Server

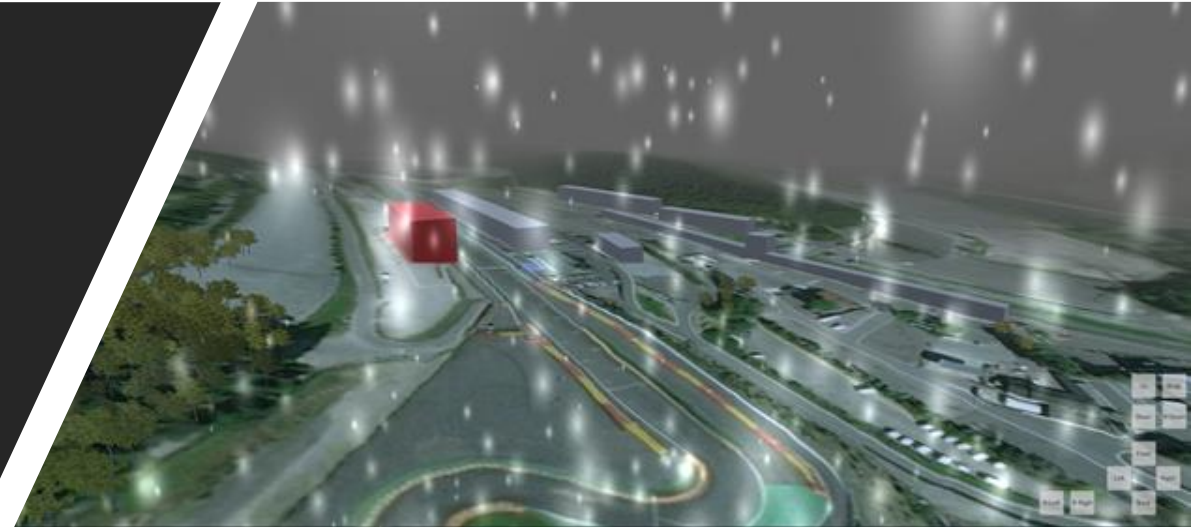
# ALX Vision Suite - Architecture





# ALX Physics

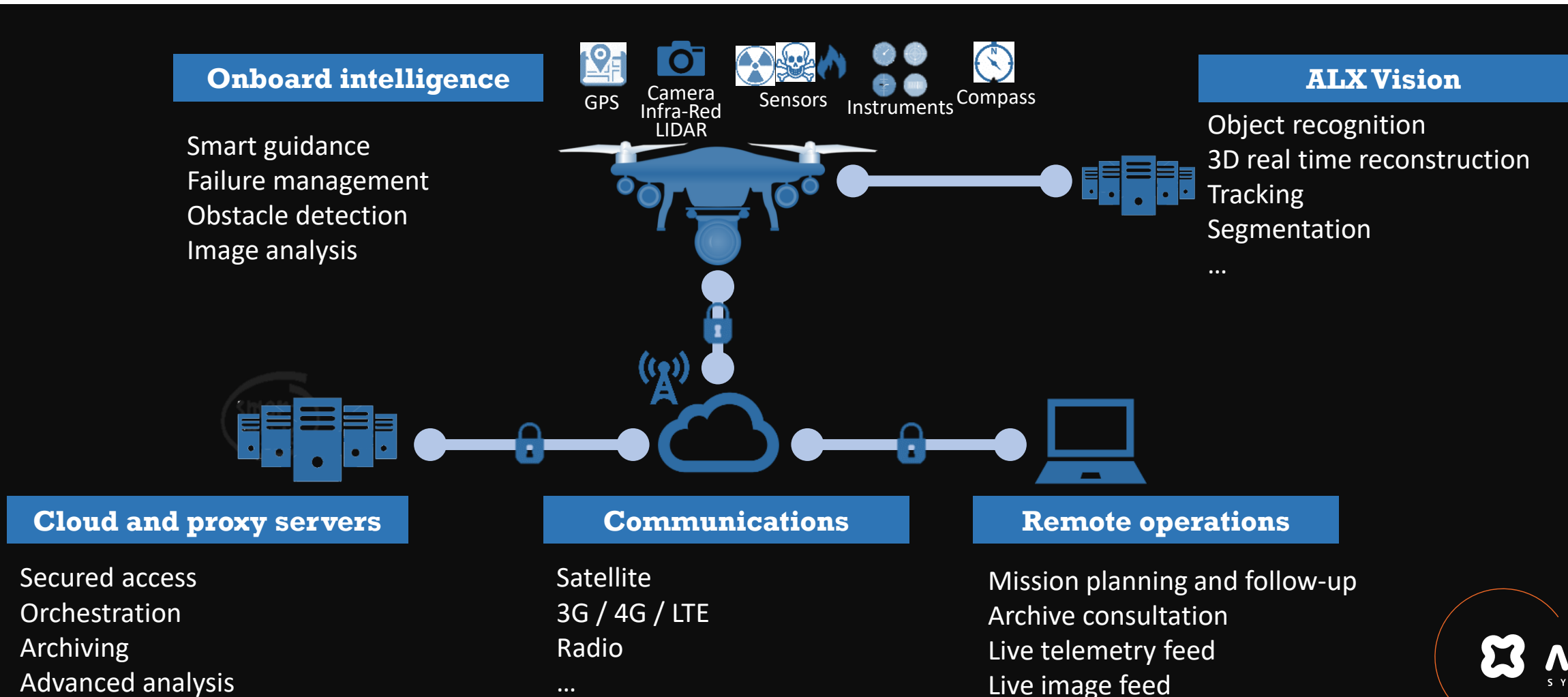
- 3D Simulation and testing environment
- Simulate the activity of an equipment as close as possible to the reality
- Simulate failures (GPS, Sensors, ...)
- Simulate sensors (camera, distance, ...)
- Validate decision engine of the ALX OS
- Integrate weather conditions like Rain, snow, wind,...



# ALX Autonomous UAV Solution

- Complete solution to build UAV solutions
- Contains :
  - a Server component, cloud or privately hosted
  - Many “host”
  - Many control stations
- Solution is interfaceable with other software
- Dedicated to integrate various kinds of equipment and execute missions
- The complete solutions is controllable through SDK
- Can be integrated in ALX applications like SENTINEL, SPARTIATH, SCOUT or SCRIBE
- Custom applications can be developed with the ALX Development Studio

# ALX Autonomous UAV Solution - Architecture



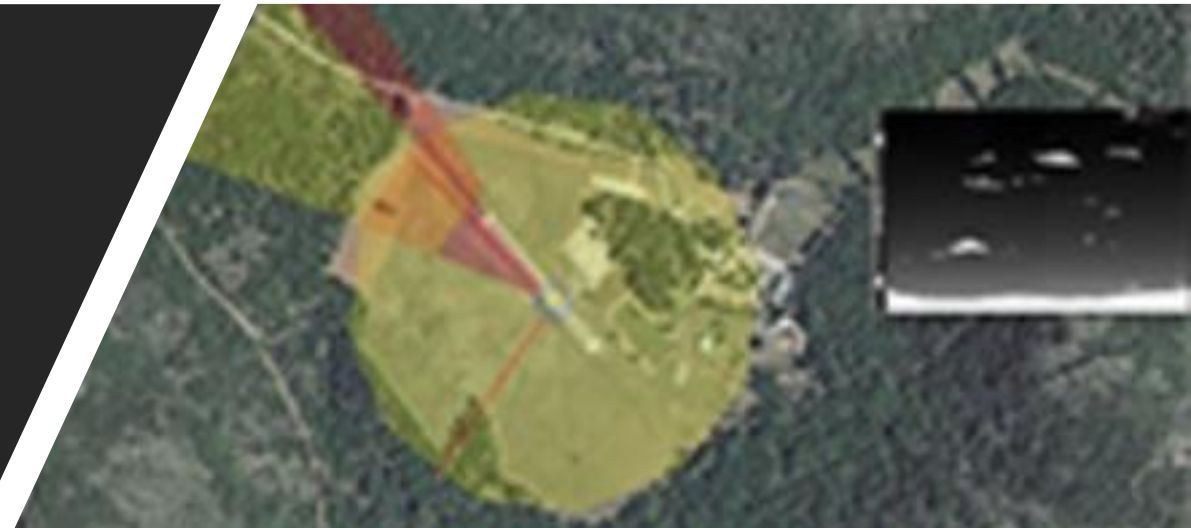
# ALX Sentinel – Perimeter Security Solution

- Aggregate legacy infrastructure and apply AI
- Detect objects or anomalies based on camera feeds and provide feedback to Guard.
- Able to take decision based on a rules engine
- Extendable to any kind of input sensors (smart fences, smart doors,...)
- Able to take actions like:
  - Sending a UAV on the site, make call or send message,...
- Customizable to match the customer needs



# ALX Spartiath – Drone interception solution

- Solution dedicated to ensure a perimeter security against UAV
  - Integration platform for Radars & Effectors
  - Proceed to autonomous UAV physical interception
  - Drone based Effector
- 
- Winner of the NATO Innovation Challenge 2018



# ALX Scribe – Visual inspection solution

- Solution for visual inspection of assets by automated Drones
- Indoor and outdoor
- Automatic detection of Anomalies and 3D model generation
- Report generation
- Create platform to correlate information for predictive analysis or Big Data analysis



Thanks!

