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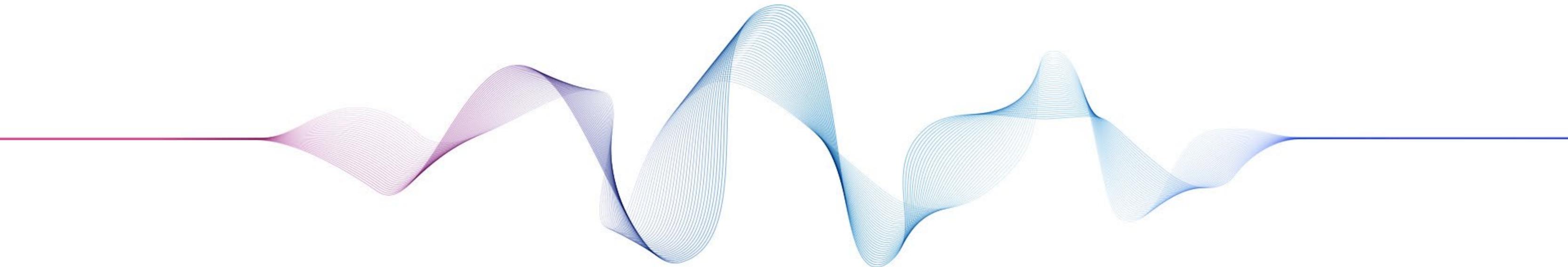
Piazza Don Dino Ricchetti, 1
19038 Sarzana (SP)
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The Company

HYPERION - Innovative Italian SME with a focus in the security sector, founded in 2013 from the combination of innovative ideas of a unit of IT professionals.

TEAM - comprised of highly skilled computer engineers with solid experience in software development and deep practice and expertise in artificial neural networks, machine learning and deep learning.

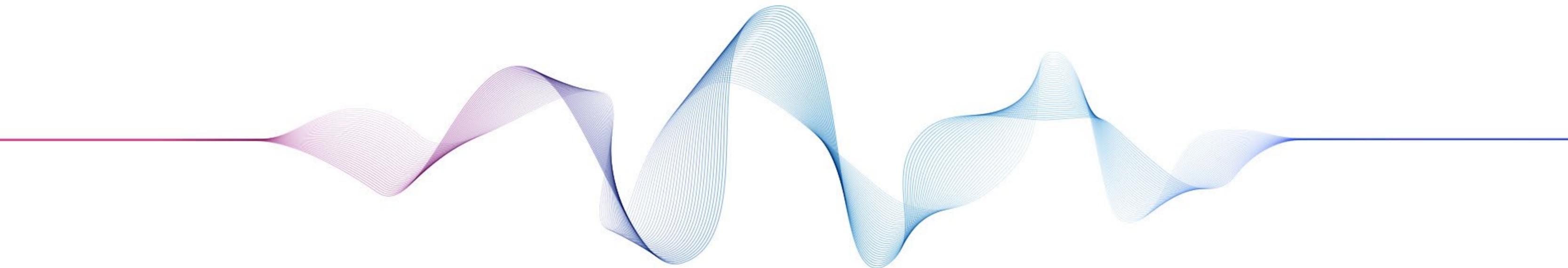
PLEDGE - constant and proactive with partners and customers to verticalize strategic solutions and to support them in every development phase of their projects.



Mission

HUMAN INDIPENDENT - Allowing organizations (city, state, federal and private) to manage and analyze large amounts of information autonomously from humans and share them to solve and manage every situation effectively: from managing a crisis, to fighting crime or even to the management of liveability, accessibility and urban mobility.

NEW APPROACH OF GEO-SPATIAL ANALYSIS - allow an autonomous artificial intelligence to evaluate each single action in the geographical and temporal context in which it occurs using each available information.



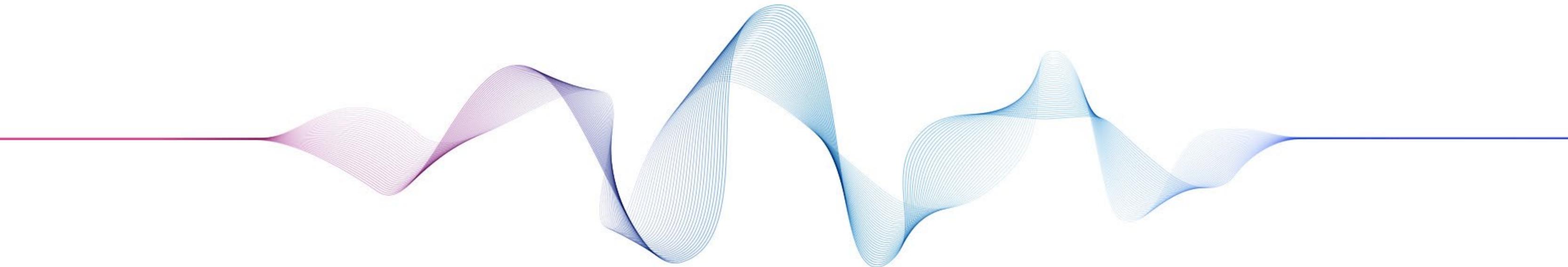
Innovation

SMART IT PLATFORM - A3iU (Advanced Autonomous Artificial Intelligent Unit)

It integrates simply and intuitively in a single patented 3D user interface multiple applications and electronics devices not natively interconnected.

The system analyzes the acquired information in real time, evaluates every single action and reacts autonomously to events according to predetermined but easily modifiable intervention plans according to needs.

US PATENT 9.286.791.B2 - EP 3055850 EUROPE - CN106030675B CHINA - PCT/003255 BRASIL



Main components

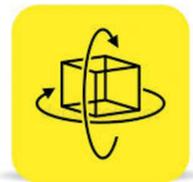


ARTIFICIAL INTELLIGENCE

The neural backbone of A3iU technology

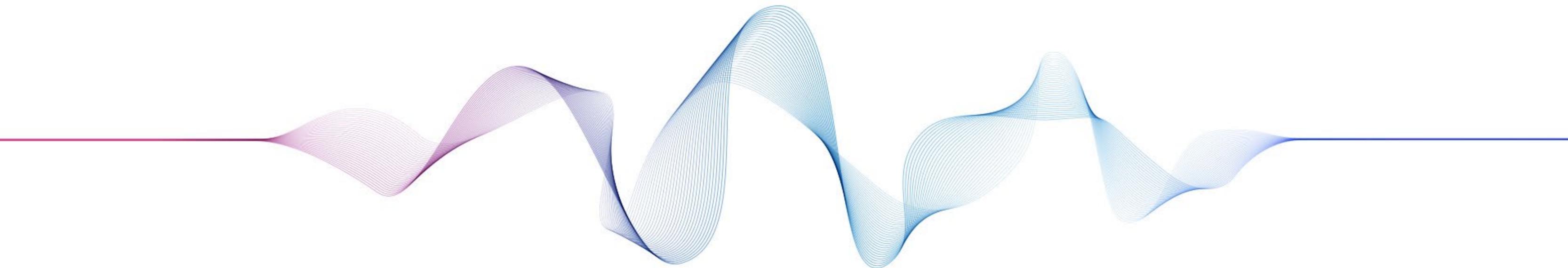
It melts and analyzes images and data from multiple simultaneous sources and is able to distinguish between relevant and irrelevant information.

It reacts autonomously according to predetermined intervention policies.



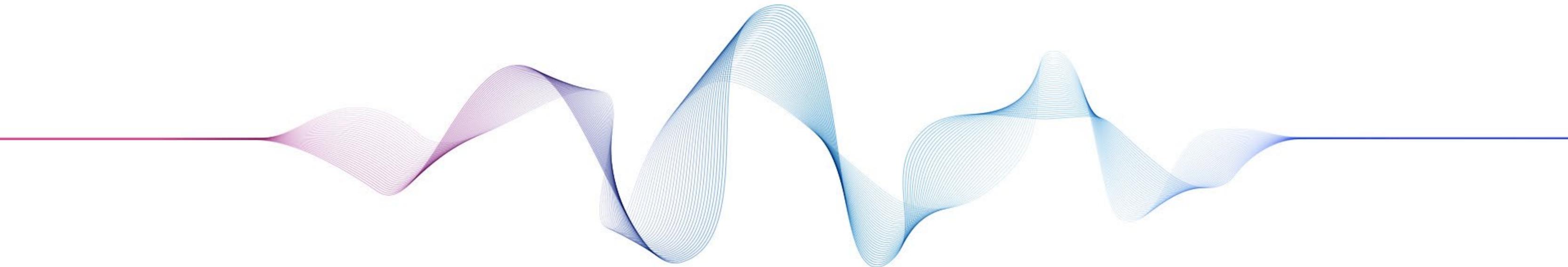
3D MULTISENSOR INTERFACE

Simultaneous operating and visualization console of multiple systems and multiple sensors based on an active 3D GIS model.



Features

- **WIDE AREAS VISUALIZATION**
in a single screen
- **VIRTUAL GEO-FENCING**
of areas and definition of infinite alarm zones.
- **TRACKING**
of each activity by location and status using any available technology (BLE, RFID, wifi..etc.,)
- **INTEROPERABILITY MULTIPLATFORM**
remote control of sensors and subsystems (air, land, sea and space) in a single screen in real time
- **AUTOMATED EXECUTION OF THE INTERVENTION RULES**
It reduces delays in judgment and "human" errors of interpretation. Instant access to data as needed (intelligence, news, weather, environment, ...) for rapid response to mixed attacks by providing real-time information to field personnel



Benefists



ARTIFICIAL INTELLIGENCE

removes the operator's randomness and his errors;
accelerates response times to events by minimizing risks;
autonomously applies the company's compliance guidelines;



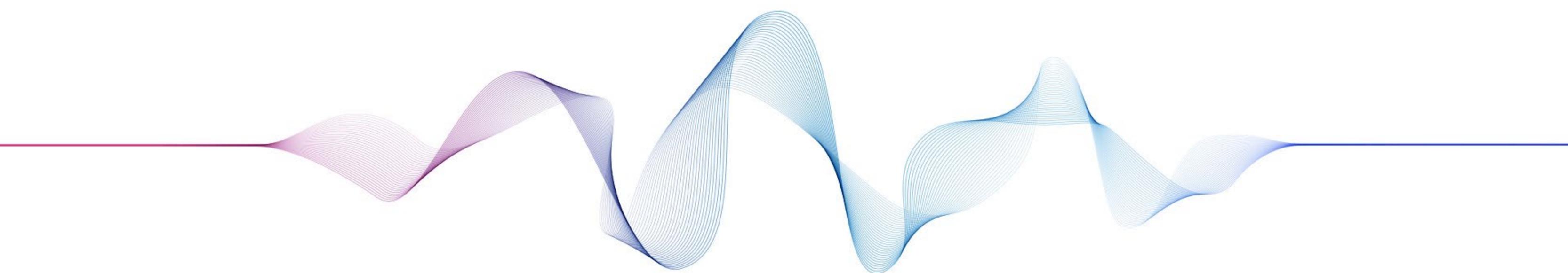
REDUCES MANAGEMENT COSTS

removes the need for a skilled and updated
workforce on CPS



SCALABILITY

from the compact version of a single
computer to complex solutions distributed
all over the world



Fields of application



PREVENTION



SECURITY



FIRE FIGHTING



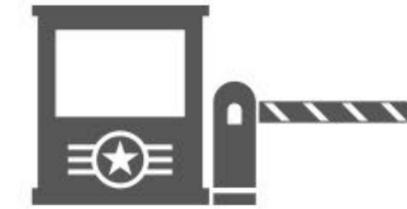
CRITICAL INFRASTRUCTURE



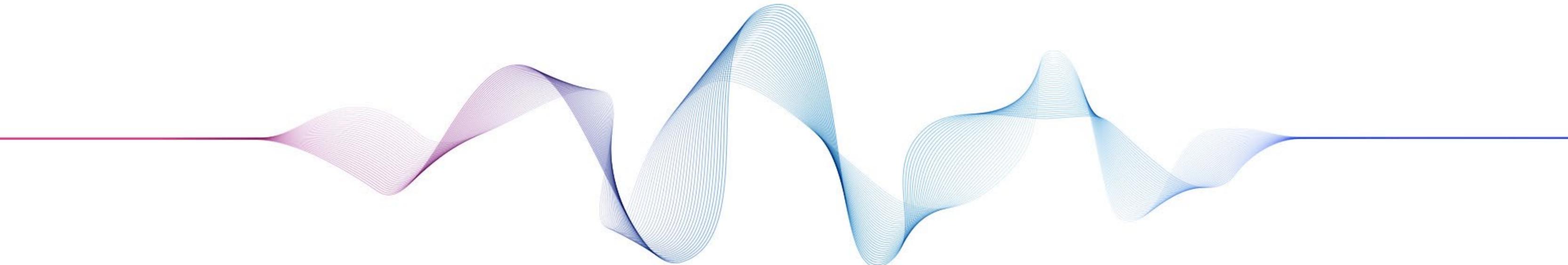
INDUSTRIAL APPLICATIONS



CIVIL APPLICATIONS



MILITARY APPLICATIONS



A3iu

TO	FROM	FLIGHT	STATUS
10:00	10:00	10:00	10:00
10:05	10:05	10:05	10:05
10:10	10:10	10:10	10:10
10:15	10:15	10:15	10:15
10:20	10:20	10:20	10:20
10:25	10:25	10:25	10:25
10:30	10:30	10:30	10:30
10:35	10:35	10:35	10:35
10:40	10:40	10:40	10:40
10:45	10:45	10:45	10:45
10:50	10:50	10:50	10:50
10:55	10:55	10:55	10:55
11:00	11:00	11:00	11:00
11:05	11:05	11:05	11:05
11:10	11:10	11:10	11:10
11:15	11:15	11:15	11:15
11:20	11:20	11:20	11:20
11:25	11:25	11:25	11:25
11:30	11:30	11:30	11:30
11:35	11:35	11:35	11:35
11:40	11:40	11:40	11:40
11:45	11:45	11:45	11:45
11:50	11:50	11:50	11:50
11:55	11:55	11:55	11:55
12:00	12:00	12:00	12:00

OBJECT1

345-184204732-382

OBJECT16

unidentified person

OBJECT69

9638-36784

suspicious element

unrecognisable bag

OBJECT35

NO DATA

OBJECT4

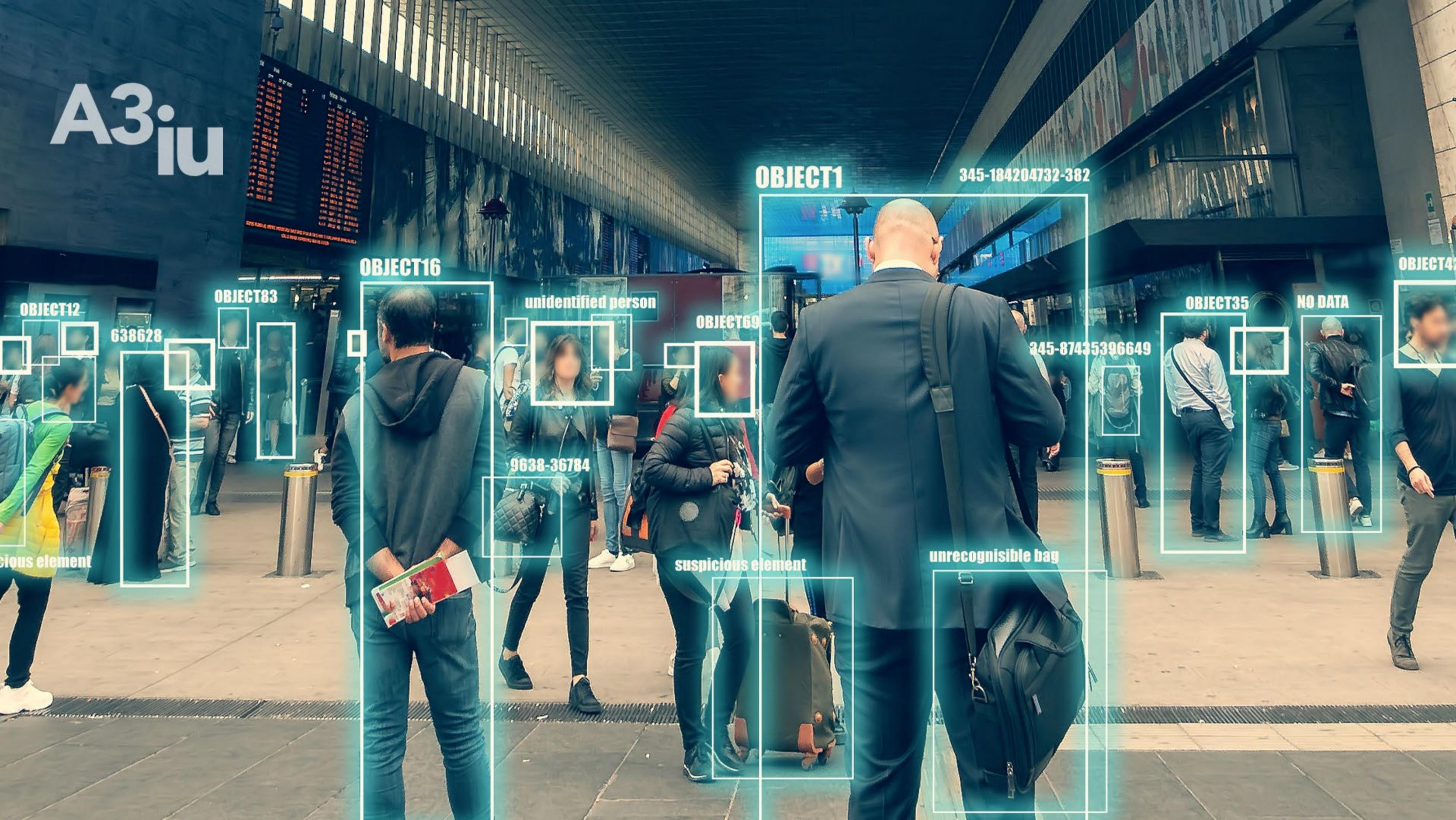
345-87435396649

OBJECT12

638628

OBJECT83

suspicious element

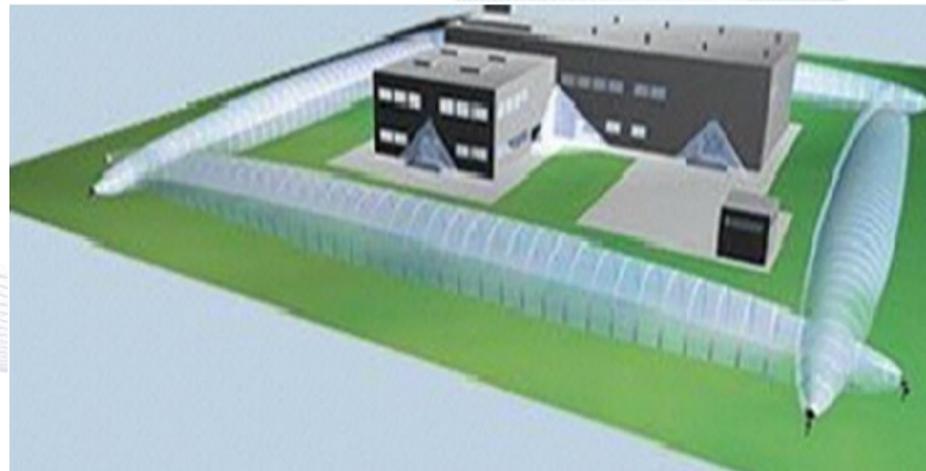


Security

- Anti-intrusion and anti-climb over control of perimeter areas
- Analysis and tracking of suspicious behaviors (e.g. loitering ...)
- Area monitoring and recognition of abandoned / removed objects
- Tracking of vehicles and people
- Authorization or prohibition of transit through license plate recognition
- Access management by integrating access control systems and automation systems



License plate recognition and vehicle tracking



VIRTUAL BARRIERS

It can be used in places (water, desert, etc.) where it is too expensive or impossible to build a physical barrier



Monitoring and access control

Prevention

- Monitoring of roads, tunnels, crossings and pedestrian crossings to report and manage emergencies in real time
- Work process safety checks to identify illegal actions or unauthorized behavior



Accident prevention



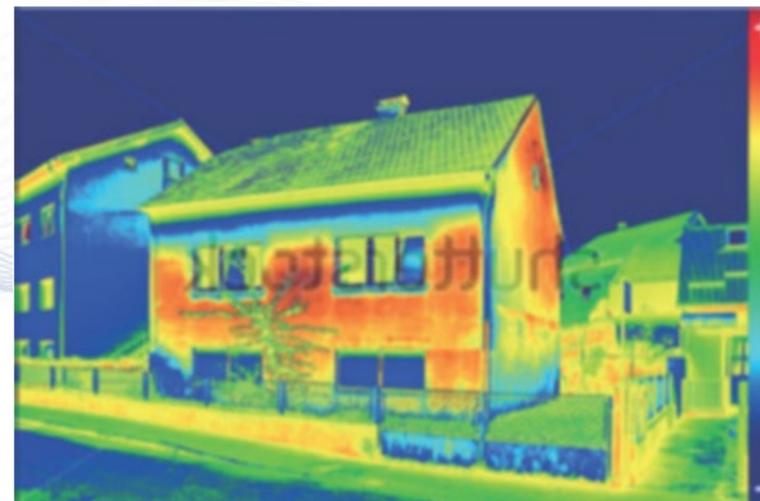
Road and tunnel monitoring

Fire Fighting

- Analysis and control of "signals" from smoke, gas, chemical sensors, etc.
- Monitoring and supervision of risk areas through the integration of existing electronic sensors (eg Smoke plume control to predict and avoid self-ignition or explosions)
- Intelligent and automatic management of the stop and control tools to avoid involving people
- Immediate alert of rescue teams and automatic management of evacuation procedures after the alert



identification, recognition, analysis and evaluation of the typology of fire

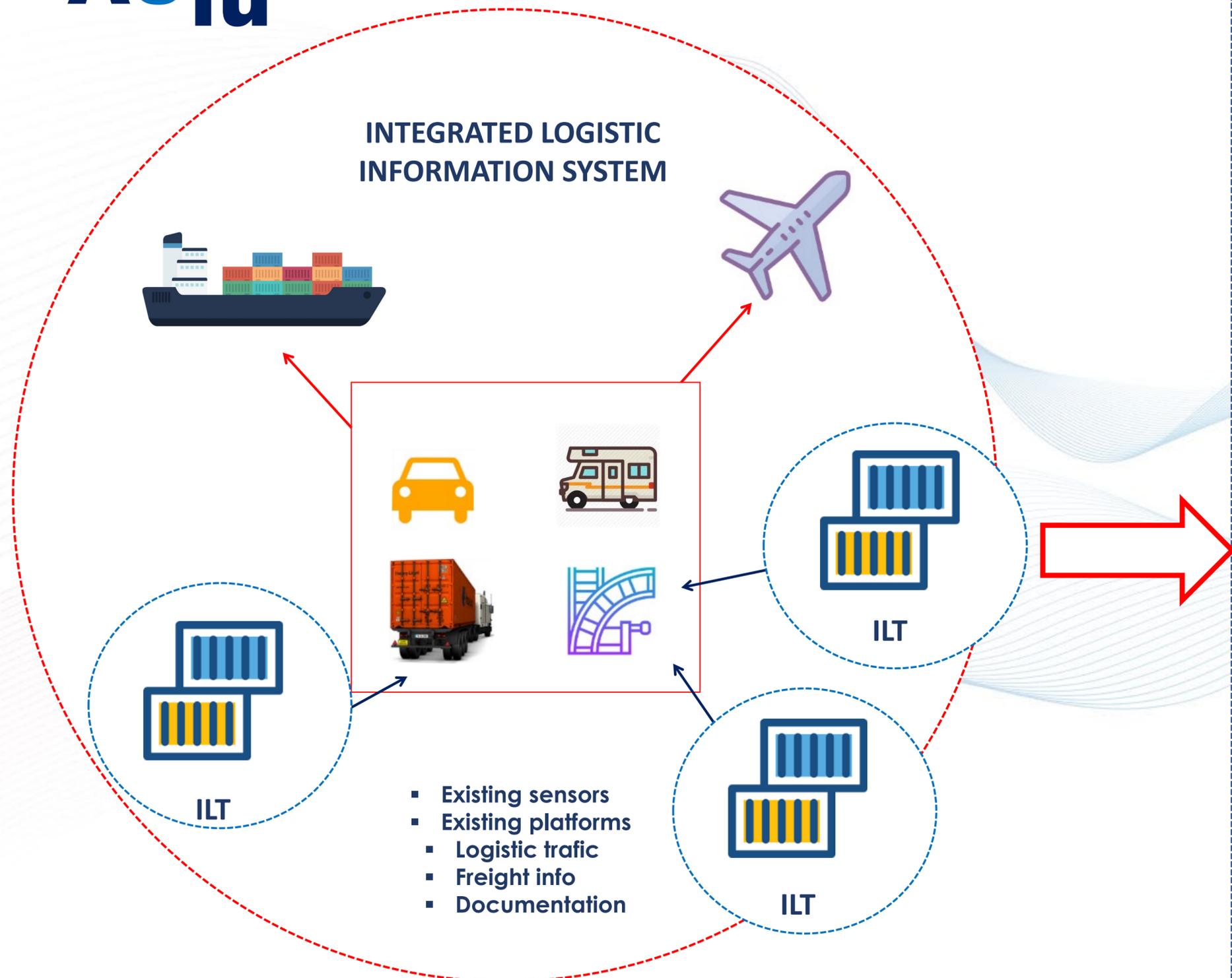


Area control via thermal or hybrid cameras and electronic sensors



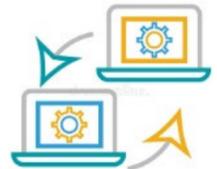
Identification of suspicious behavior

A3iu Port of the future



INTEGRATED LOGISTIC INFORMATION SYSTEM

- Existing sensors
- Existing platforms
- Logistic traffic
- Freight info
- Documentation

-  Efficiency of Port operations & reduction of bottlenecks
-  Foresee possible transport congestion
-  Green policies of freight transport
-  Data sharing among multimodal agents
-  Reduction of environmental impact
-  Strengthening of railway services

Port areas

A3iu Features

- anti-intrusion control of perimeter areas and transit areas
- Fire risk supervision and automatic management of extinguishing procedures
- Authorization check on entry and exit of vehicles with license plate recognition
- Tracking of vehicles in mooring areas and customs areas
- Verification of behavior and tracking of movements within the authorized areas
- behavioral monitoring in container maneuvering areas
- real-time control and correction of container storage operations
- truck traffic control to avoid congestion problems
- Face tracking and analysis with the possibility of matching on a database of known images



Verification of the risk of collision between vessels



behavior monitoring on docks and maneuvering areas



accident prevention indoor and outdoor areas

The unique characteristics of adaptability, flexibility and rationality will allow the use of A3iU in many other sectors:

- Smart Buildings & Infrastructure
- Asset & Facilities Management
- IoT & Connectivity
- AI & ML

Contacts

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hyperION
INNOVATION OVER THE NETWORK



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