



AI-TRAFFIC: Analisi Video per le Smart City



Speaker
Alessia Saggese

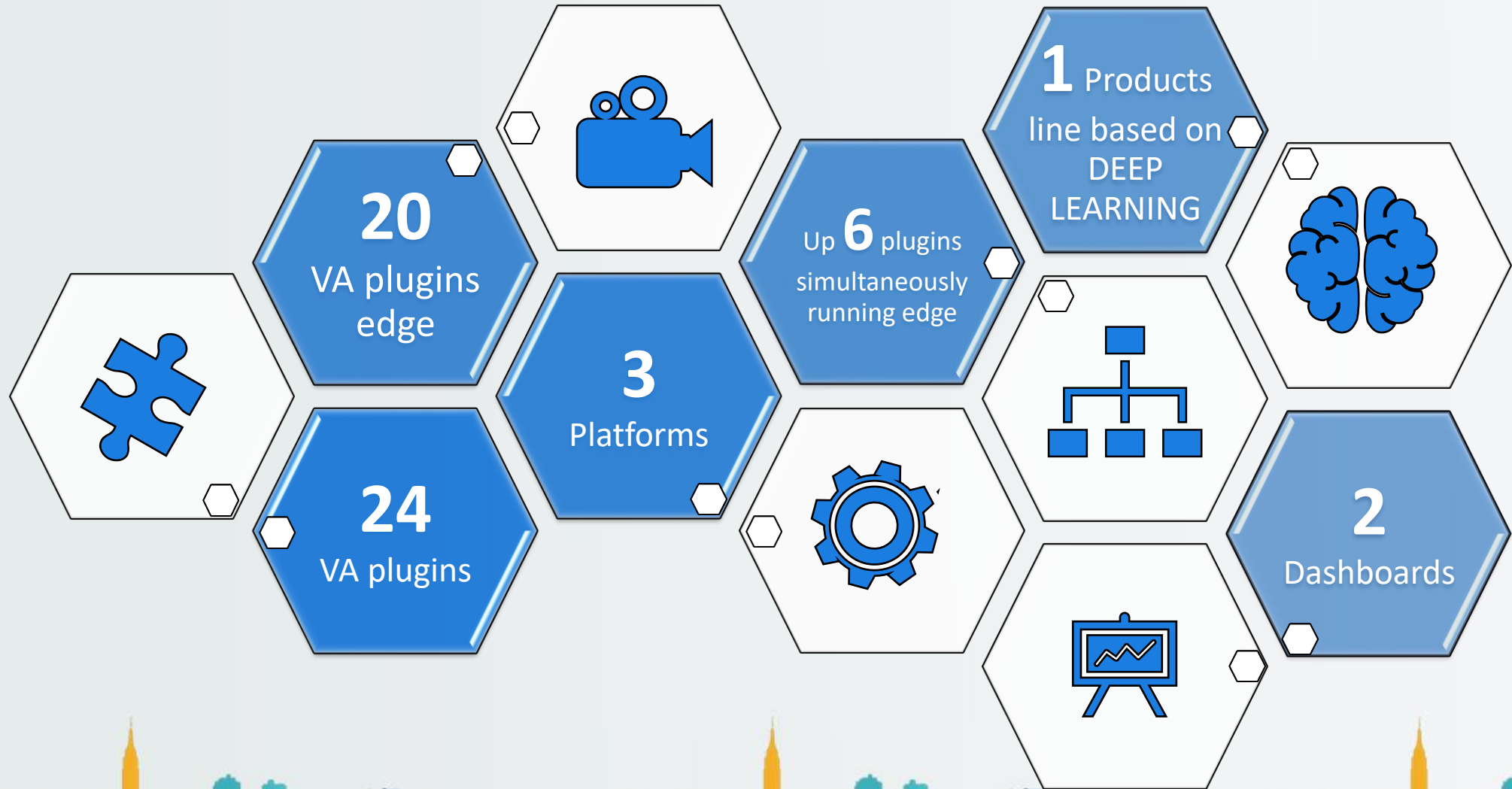


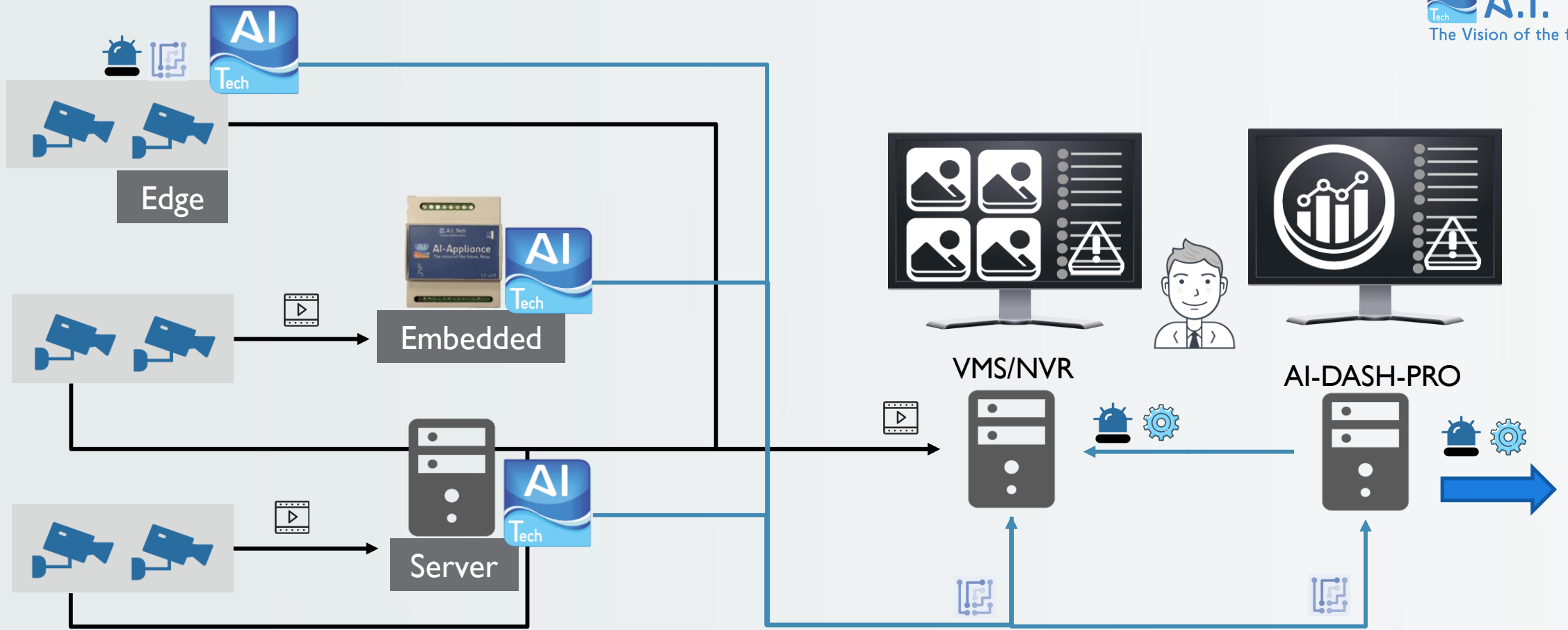
THE COMPANY

Where are we now?



A.I. Tech in Numbers





Video stream for recording



Events



Alarms (overcrowding etc)



Diagnostic alarms





VIDEO ANALYSIS

Which are the information we can automatically obtain by video analytics solutions?



VEHICLES MONITORING



Counting and classification of vehicles



Traffic density and Congestion detection



Avg. speed and High speed



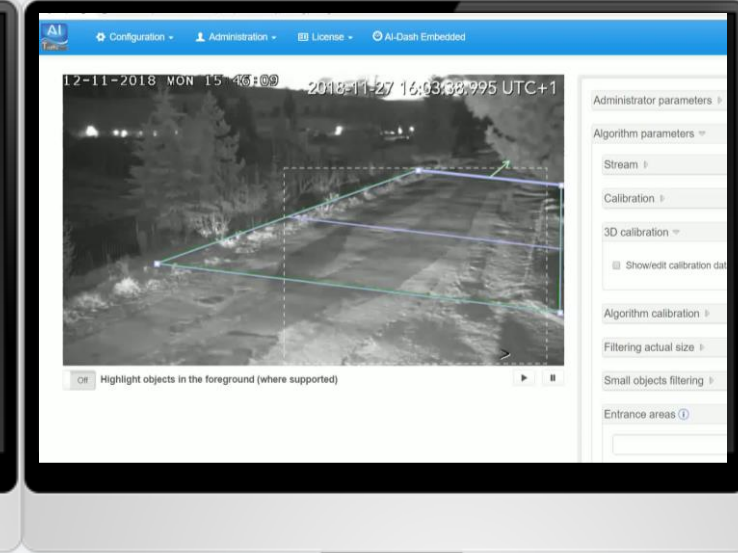
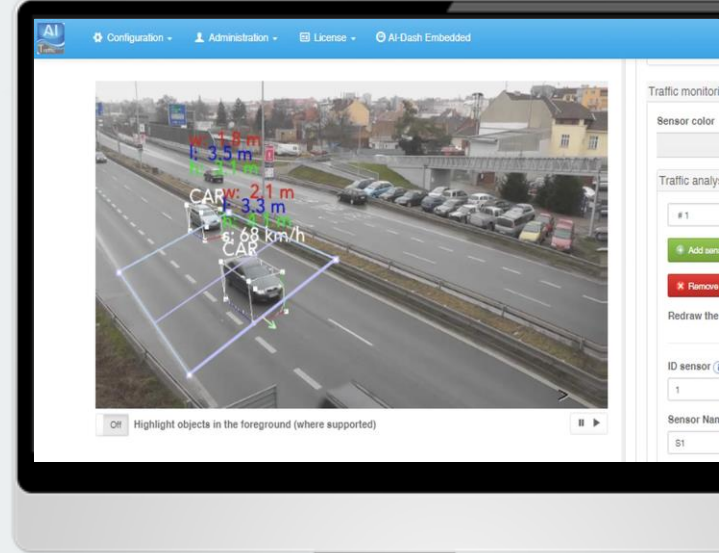
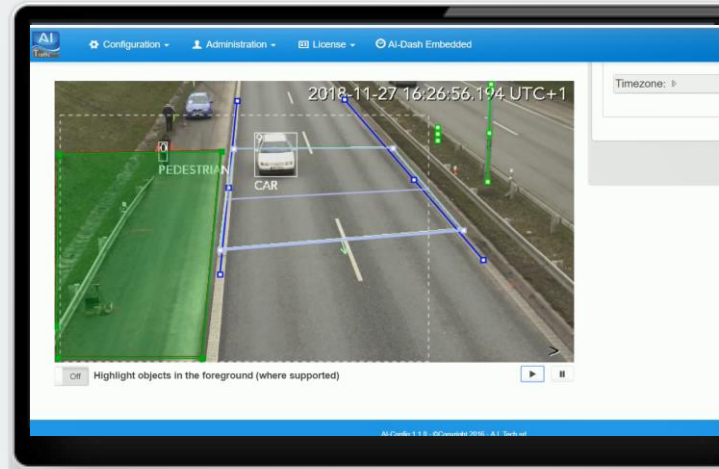
Pedestrian detection on the road



Stopped vehicle



Vehicles in the wrong way





ALARMS AND STATISTICS

How can we manage the alarms and visualize the collected data?



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The Vision of the future. Now.



INTEGRATION

VMS



Standard Protocols



EMAIL



HTTP (CGI)



HTTP (REST)



FTP



UDP / TCP



MODBUS (TCP)



MQTT

NVR



NVRs (UDP/TCP)

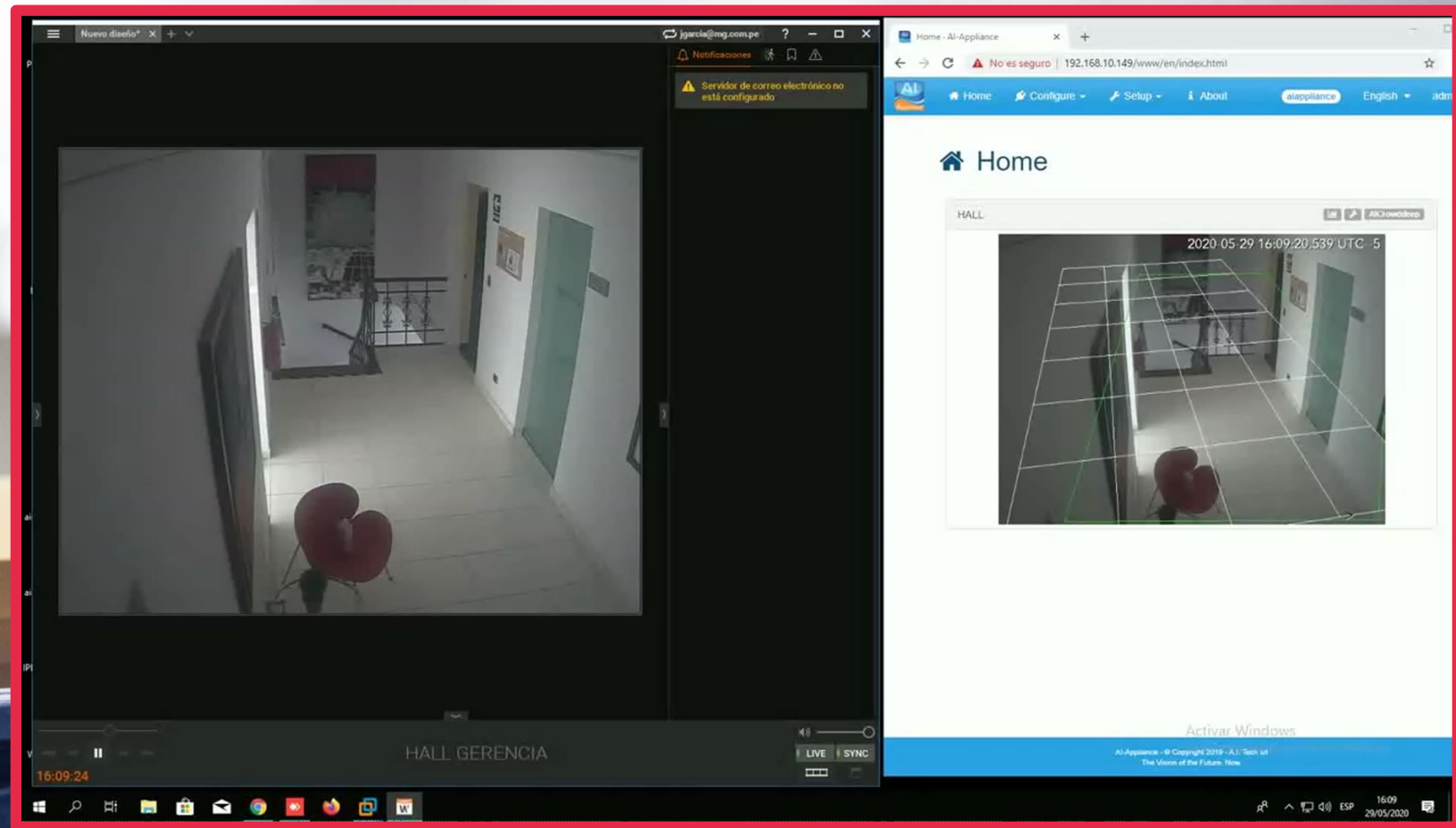
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AI-DASH-EMBEDDED



AI-DASH-PRO



Alarms

More than 20 mechanisms available for events management
(including standard protocols and 3rd parties VMSs)
Fully integration with Wave

AI-DASH-PRO



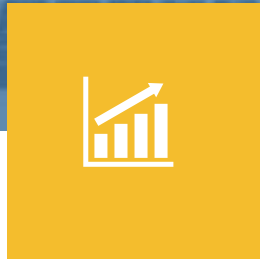
Collection

Collection of data from different sensors



Aggregation

Aggregation of data coming from different sensors



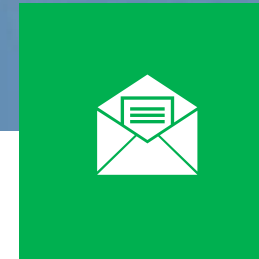
Visualization

User friendly web interface for data visualization



Report

Periodic reports automatically sent by e-mail



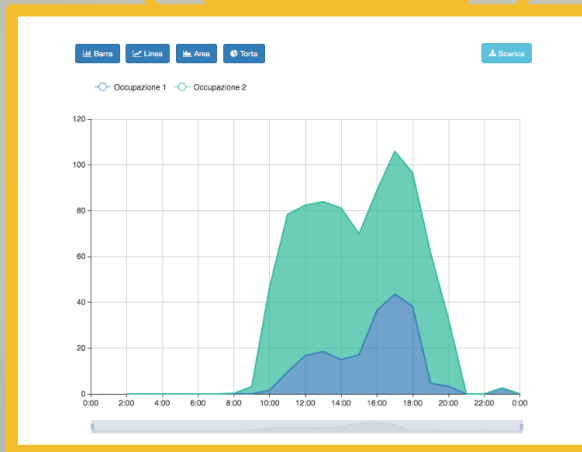
Diagnostics

Automatic notification in case of device malfunction



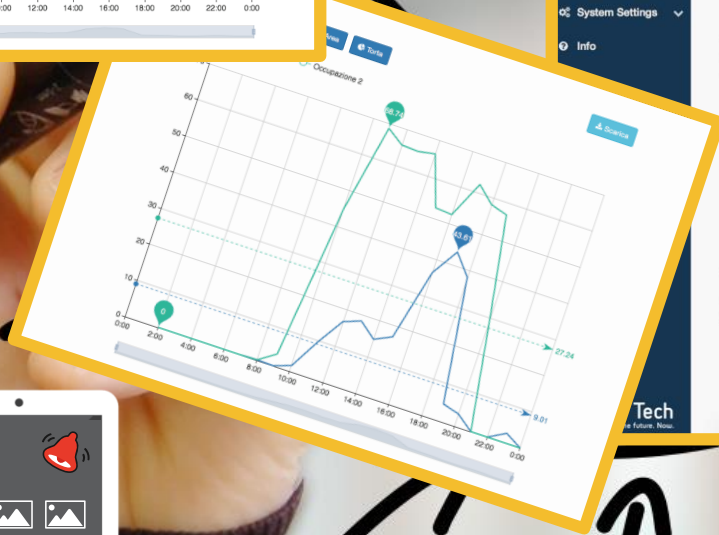
Alarms

Automatic notification in case of alarms (i.e. overcrowd)



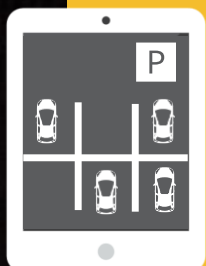
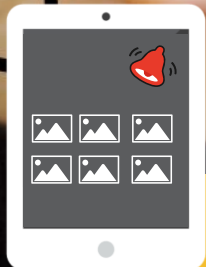
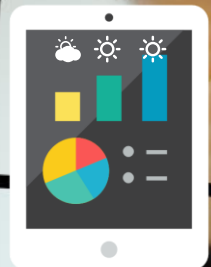
5487 Events Today

2 Estimated gender and age group Sensors	15 People counting Sensors (4707 Events Today)	3 Virtual line Sensors (2 Events Today)
1 Face counting Sensors	5 Heatmap Sensors	11 Multiple virtual line Sensors (31 Events Today)
3 Abandoned / removed object Sensors	25 Occupancy Sensors	3 Over occupation Sensors
20 Sterile zone Sensors (24 Events Today)	699 Events Today	



21/09/2018

Sterile zone Device: corridoio_sede Sensor: Corridoio 1 Total 1 Average 0 Minimum 1 Maximum	People counting Device: mensa Sensor: ENTER 1177 Total 51.17 Average 0 Minimum 58 Maximum	People counting Device: mensa Sensor: EXIT 4092 Total 177.91 Average 0 Minimum 191 Maximum
Crowding Device: ground_central Sensor: queue1 0.88 Average 0 Minimum 0.97 Maximum	Crowding Device: ground_central Sensor: queue2 0.58 Average 0 Minimum 0.68 Maximum	Occupancy Device: aula_m_8 Sensor: Banchi Sinistra No data to show

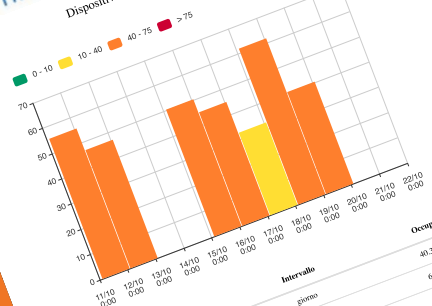


Visualization

User friendly web interface for data visualization

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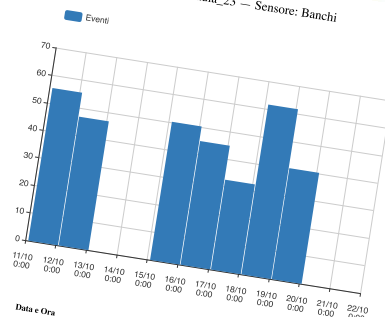
Dispositivo: aula_23 — Sensore: Banchi



Data e Ora	Intervallo	Occupazione
19/10/2018, 02:00:00	giorno	40.37 - Media
18/10/2018, 02:00:00	giorno	61.73 - Media
17/10/2018, 02:00:00	giorno	32.66 - Bassa
16/10/2018, 02:00:00	giorno	44.96 - Media
15/10/2018, 02:00:00	giorno	50.21 - Media
12/10/2018, 02:00:00	giorno	46.83 - Media
11/10/2018, 02:00:00	giorno	55.48 - Media

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12/10/2018, 02:00:00	giorno	46.83
11/10/2018, 02:00:00	giorno	55.48

Report

Periodic reports sent automatically by email, containing the data collected



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Ing. Alessia SAGGESE, Ph.D.

Sales and Marketing Director

Co-owner @ A.I.Tech

sales@aitech.vision

+39 393 8384253

www.aitech.vision

