Automated surveillance systems made easy

FCCN serviços digitais fct | fct Fundação para a Ciência e a Tecnologia | UNIVERSIDADE BEIRA INTERIOR

Apoios:

EUROCC PORTUGAL | EuroHPC Joint Undertaking | // WE MAKE THE DIFFERENCE //

PRR Plano de Recuperação e Resiliência | REPÚBLICA PORTUGUESA | Financiado pela União Europeia NextGenerationEU

Who is DeepNeuronic?

- 2021 - Established
- 2022 - 1.5M € Funding by GED
- 12 employees

Synergies and Partnerships

AGÊNCIA NACIONAL DE INOVAÇÃO

Pilots

AVEIRO CÂMARA MUNICIPAL

ubimedical

LiSPOLiS
POLO TECNOLÓGICO DE LISBOA

Universities

Universidade Europeia

NOVA
UNIVERSIDADE NOVA DE LISBOA

UNIVERSIDADE BEIRA INTERIOR

Institutions I&D

instituto de telecomunicações

NOVALINCS
LABORATORY FOR COMPUTER SCIENCE AND INFORMATICS

SOCIALAB

Project PT2020 | 540 000 €

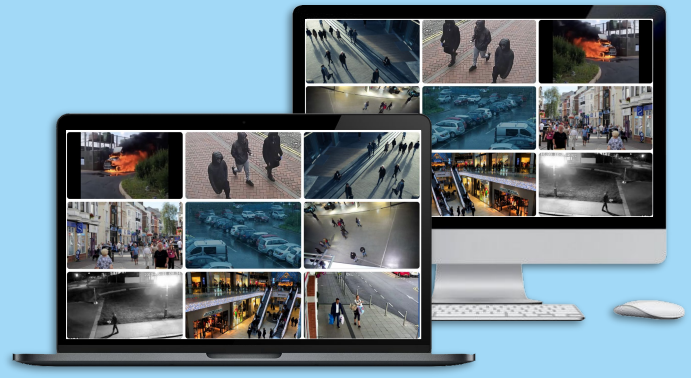
HEALTHTECH LISBOA

PORTUGAL 2020

UNIÃO EUROPEIA
Fundo Europeu de Desenvolvimento Regional

Problem

More than 1 billion CCTVs already installed



Dangerous activities are treated after happening

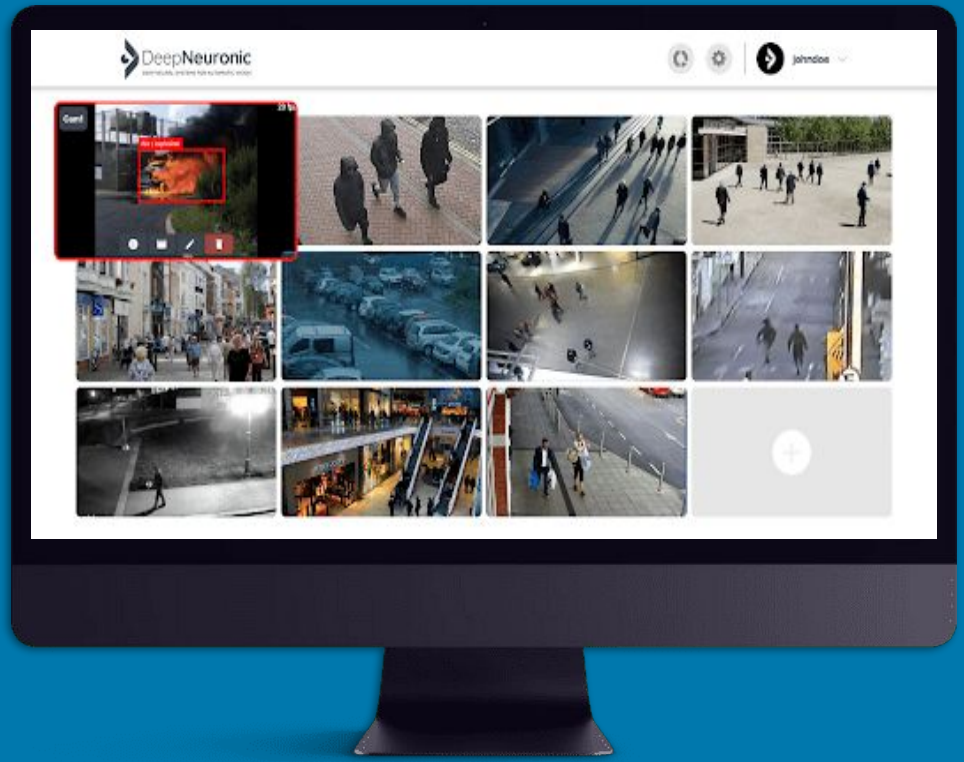
Large enterprises easily have dozens of cameras per individual

+20 minutes[2] and the attention is already degenerated

1. Ranked: The World's Most Surveilled Cities. https://www.visualcapitalist.com/ranked-the-worlds-most-surveilled-cities
2. What's wrong with Video Surveillance. https://www.aclu.org/other/whats-wrong-public-video-surveillance

Solution

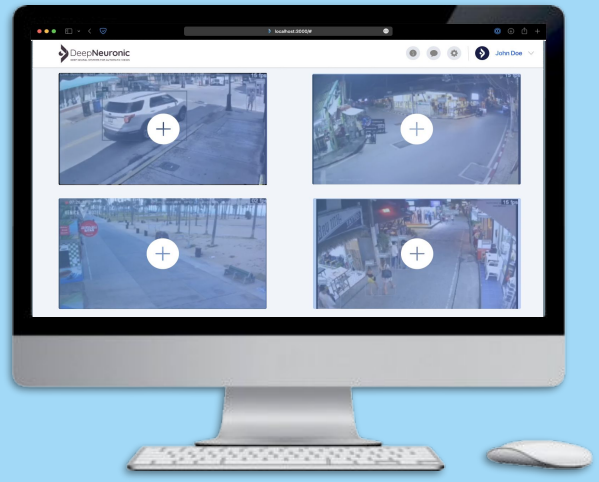
We automatically detect dangerous and behaviours of interest for you



Solution

3 easy steps to set up

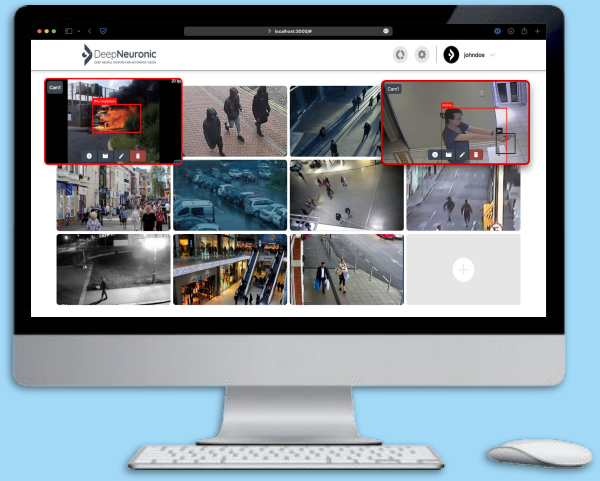
1. Select your cameras
2. Describe your model
3. Save time and human resources



"A model to **count** and **extract gender** and **age** of **people** in my **store**"

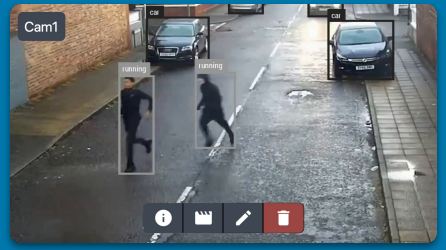
- People Detection
- Age Estimation
- Gender Classification

Generated AI Model

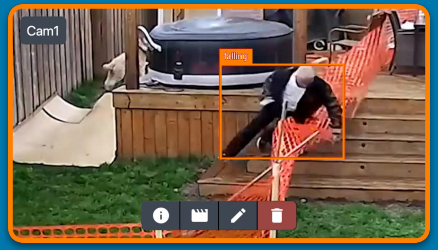


Solution

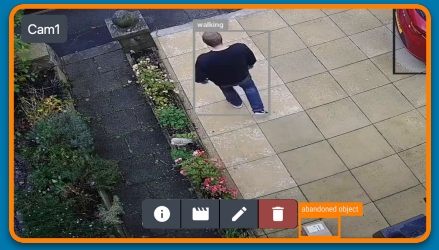
With DeepNeuronic



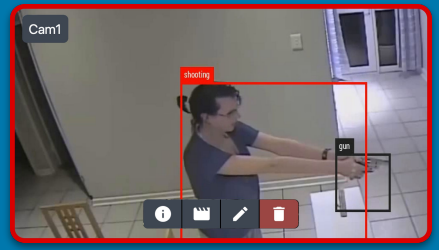
Running



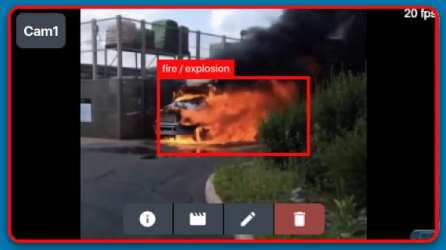
Falling



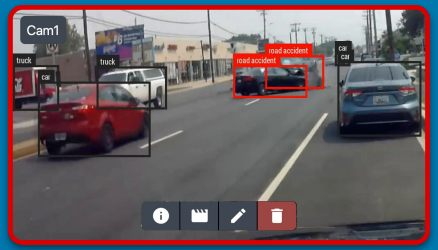
Abandoned object



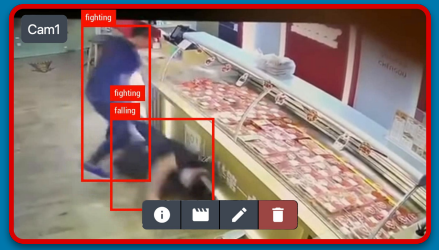
Shooting



Fire



Road accident



Fighting

+

Climbing
Lying
Stealing
Vandalism
Throwing
Smoke
Explosion
...

Competition

They only detect car accidents  Heptasense

We detect more than 30 anomalies and counting

They have a one-size-fits-all solution veesion

Easy AI taking only 10 days for new use case

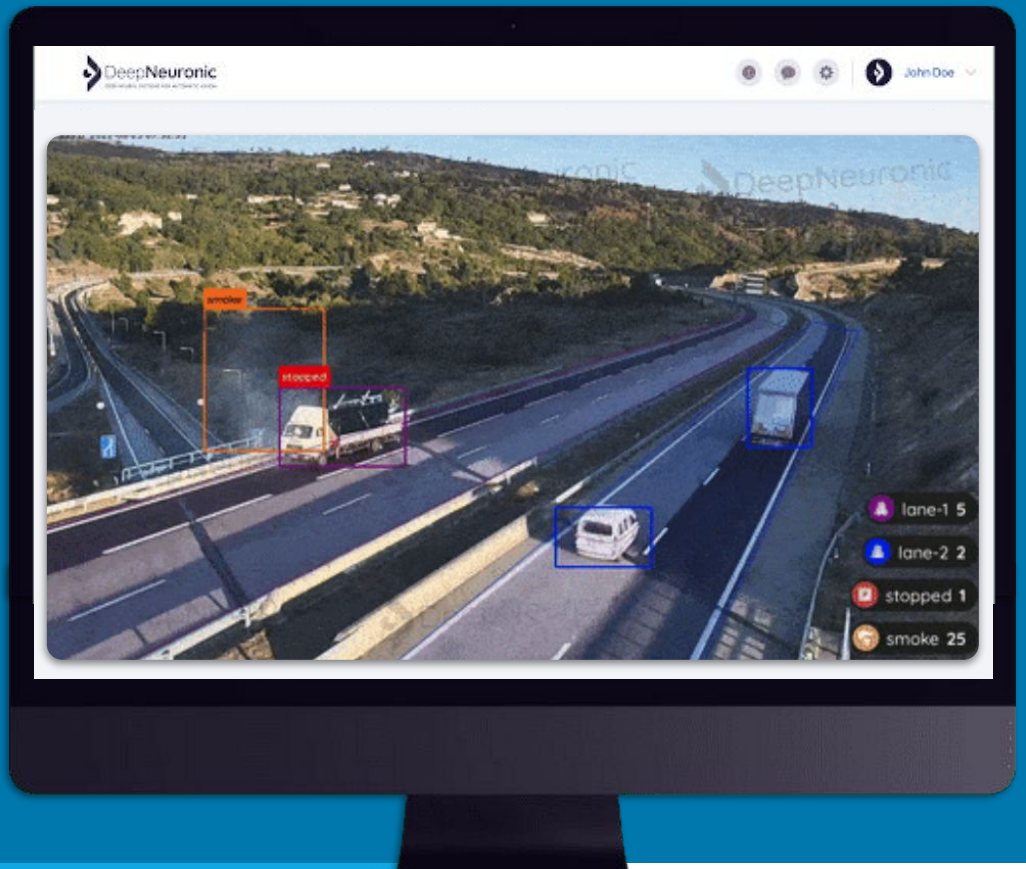
They do a posterior analysis GORILA

We deliver real-time surveillance analysis

Simultaneous Use Cases

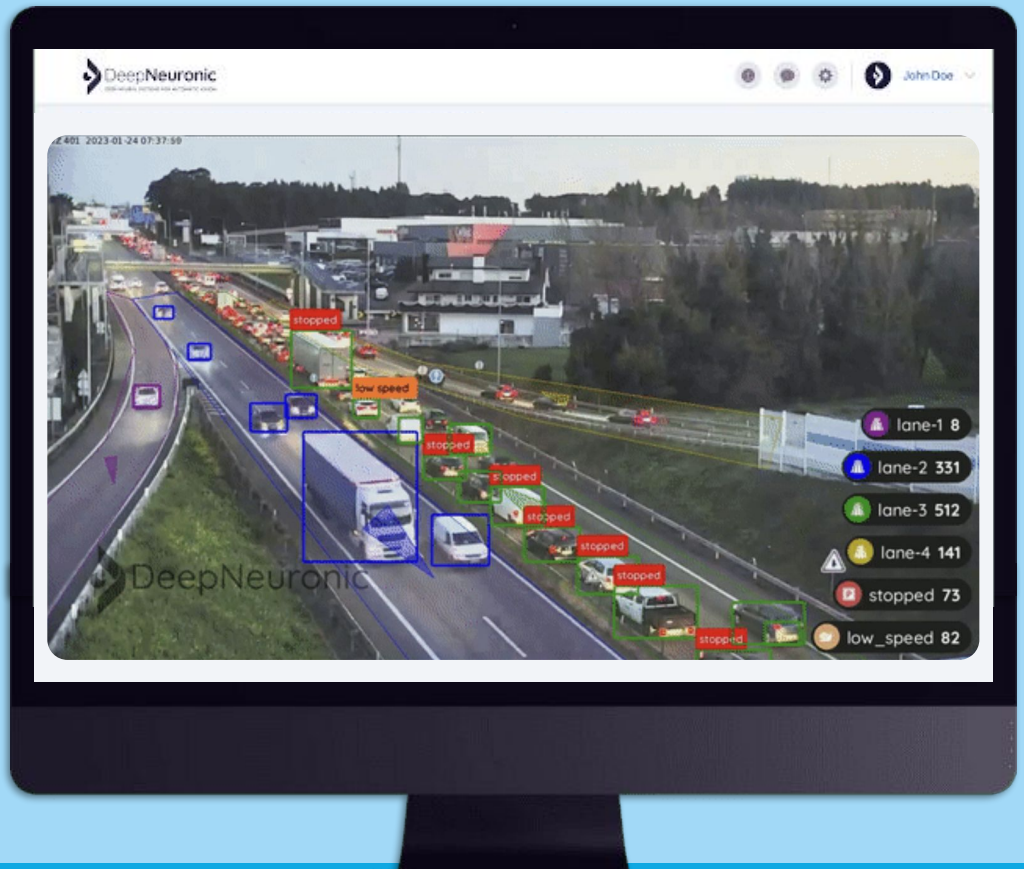
Start slide show to play video

- Fire, smoke, agressions, abandoned objects, etc
- Easily **add new actions**, **situations** and **use cases**
- Remove unnecessary scenarios
- **Build your own model**



Transportation Control

Iniciar slide para começar vídeo

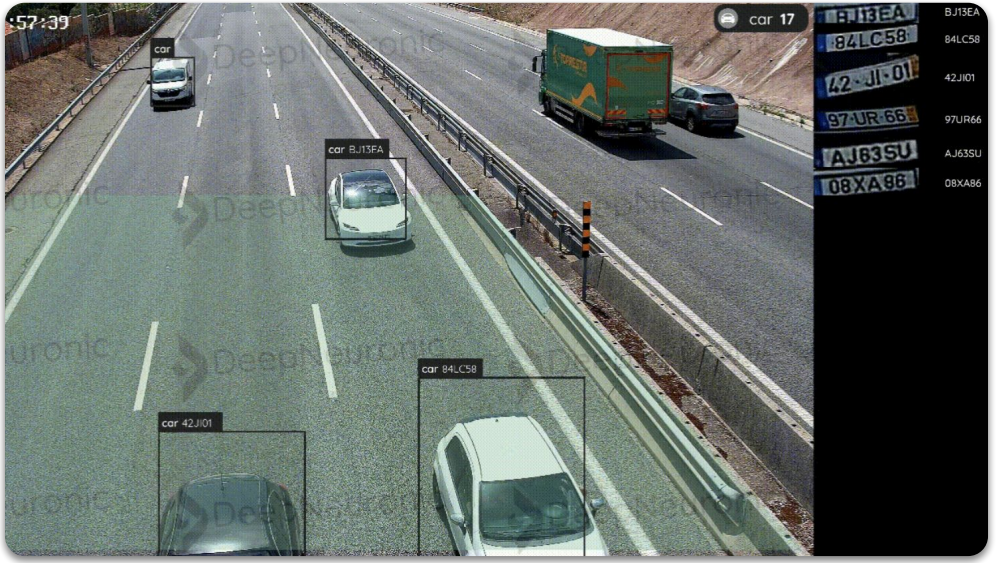


- Instant alarms for every dangerous situation
- Persons, strange objects, animals, vehicles, invasions
- Count, classify, filter and confirm history
- Extract valuable statistics

DeepNeuronic

License plates at high-speed vehicles

1. **Control** of **vehicle entries** and **exits** and **tolls**
2. Temporal and digital confirmation **history**
3. **Correlation** and **integration** with databases

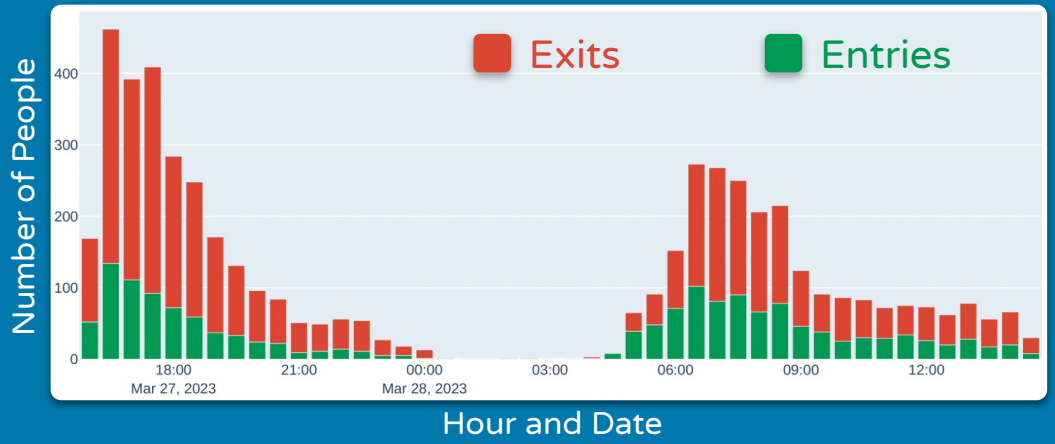


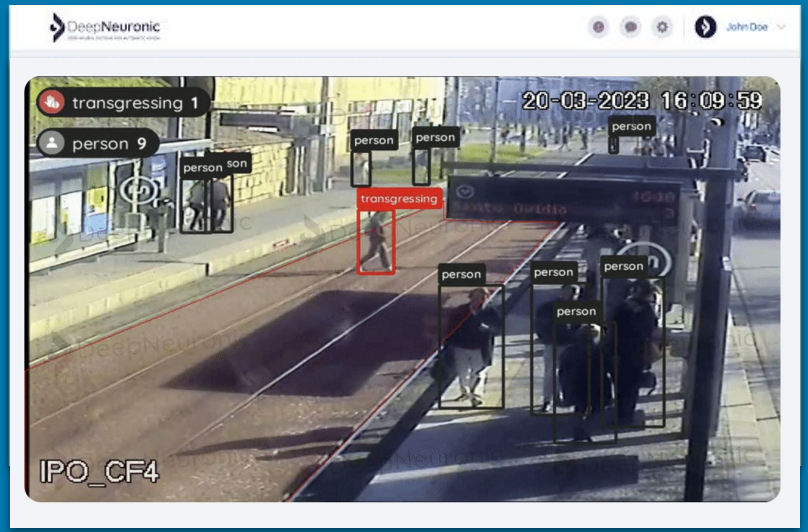
license plate	confidence	lane	class	characteristics	timestamp	attachments
24-VO-75	86%	1	truck	blue, …	2024-07-29 14:24:11 (GMT+1)	(image)
BD-54-EG	90%	1	truck	blue, …	2024-07-29 14:25:23 (GMT+1)	(image)
30-XU-54	83%	3	car	black, …	2024-07-29 15:12:06 (GMT+1)	(image)
42-JI-01	85%	2	car	black, …	2024-07-29 15:13:19 (GMT+1)	(image)

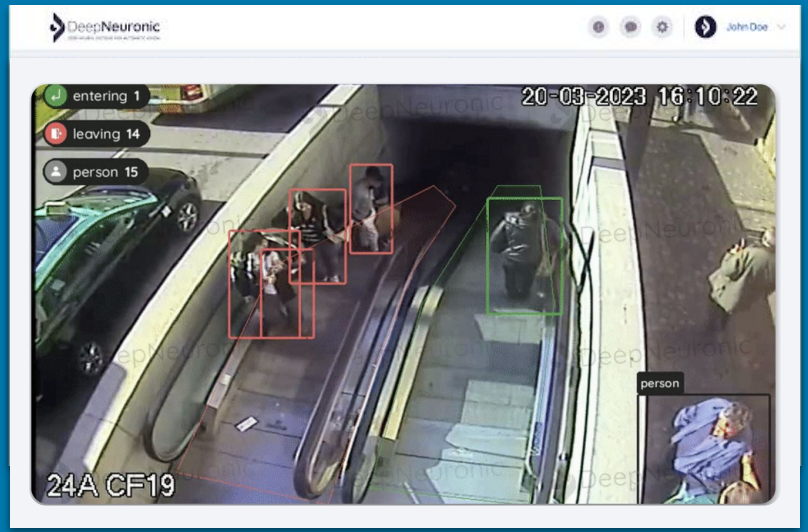
DeepNeuronic

Crowd Control

1. Danger regions **transgressions**
2. Extraction of station **occupancy**
3. **Cross-referencing data** with purchasing tickets

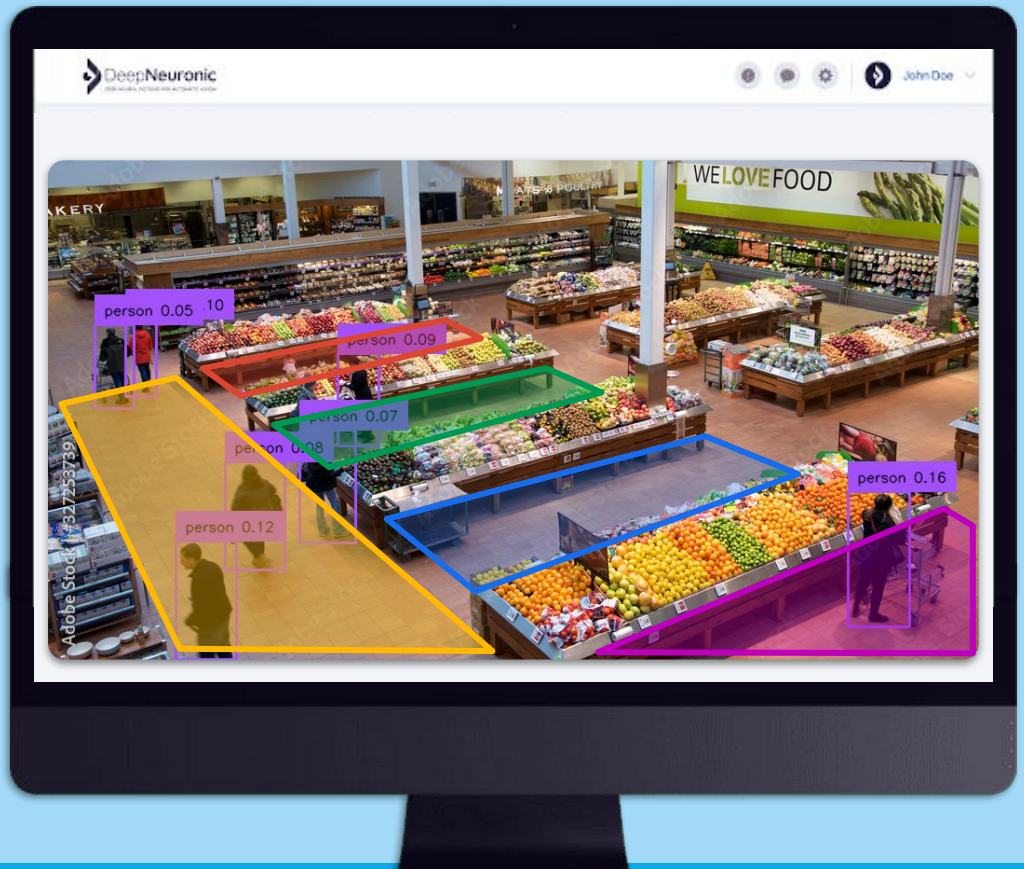






Retail Management

Start slide show to play video

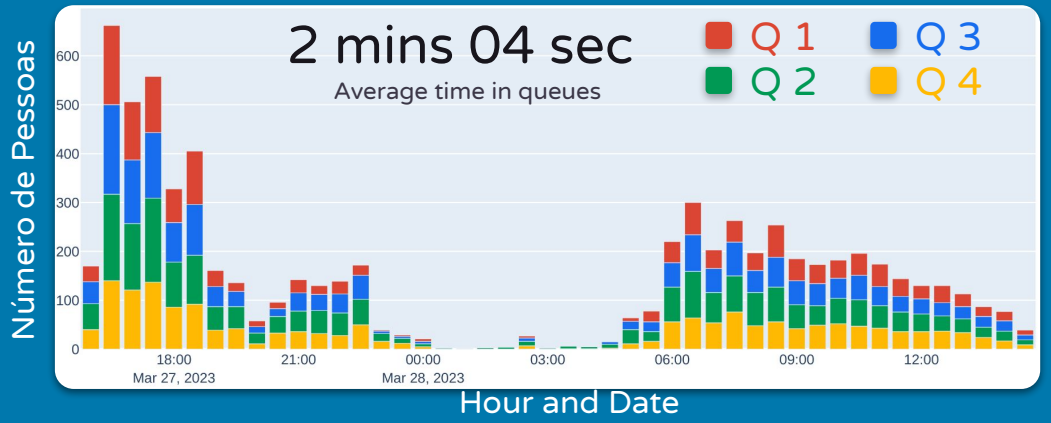


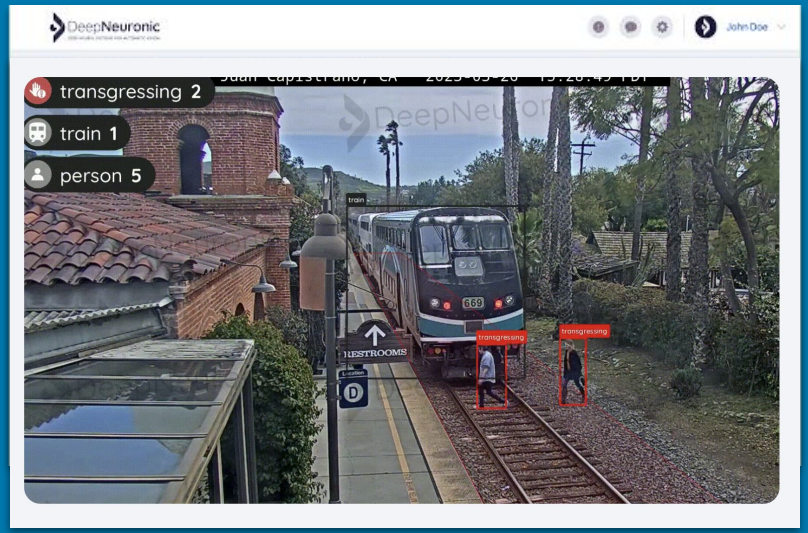
- **Mapping** of store by sections and aisles
- **Dwell time** by sections and aisles
- **Continuous tracking** of customers and experience
- **Data correlation** with product sales
- Daily, weekly, monthly, and yearly analysis

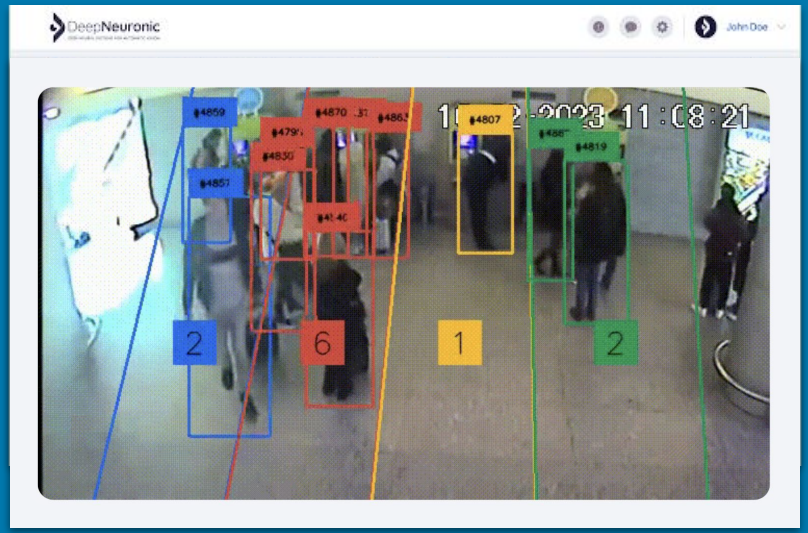
DeepNeuronic

Docks and Awaiting Times

1. **Train** detection and **awaiting times**
2. Detection of malfunction **vending machines**
3. **Cross-referencing data** with purchasing tickets



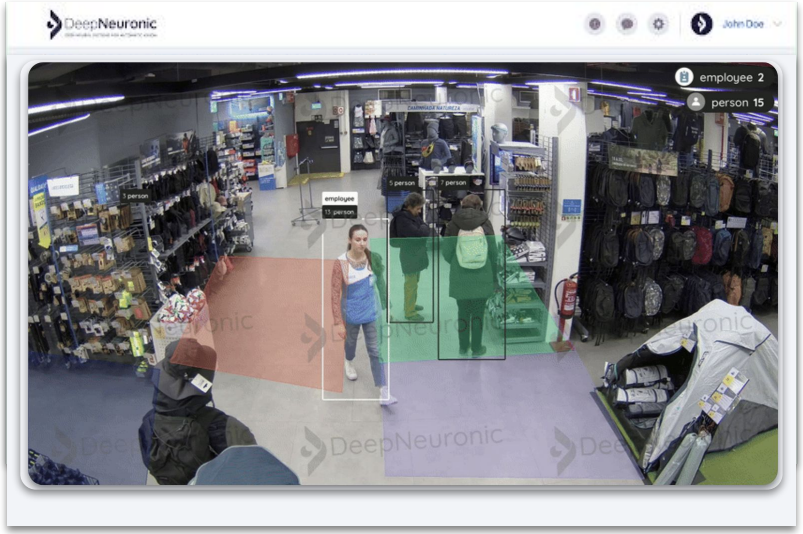


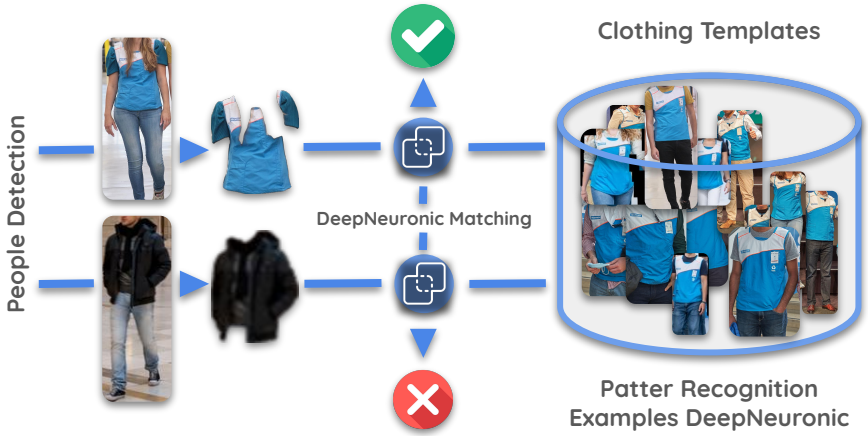


DeepNeuronic

Employees and Clients Analysis

1. **Attention extraction** of clients
2. **Differentiation** between employees and clients
3. **Mapification** of both profiles across the establishments

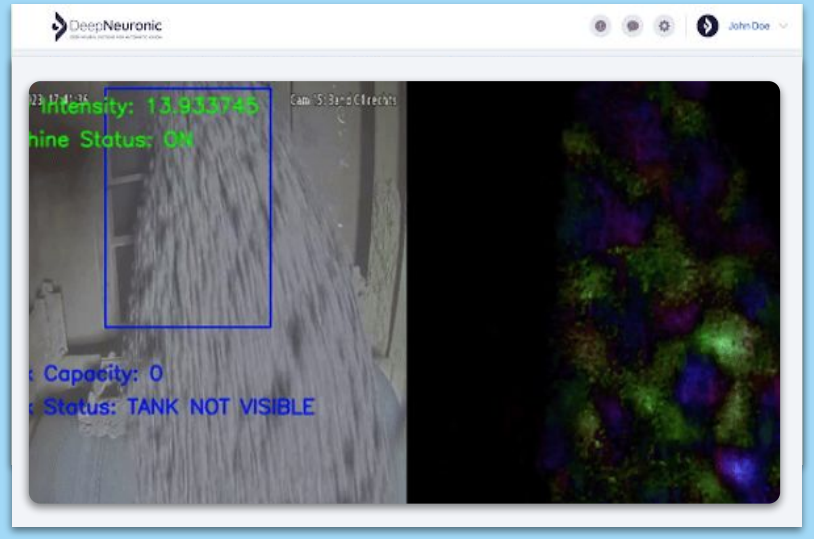


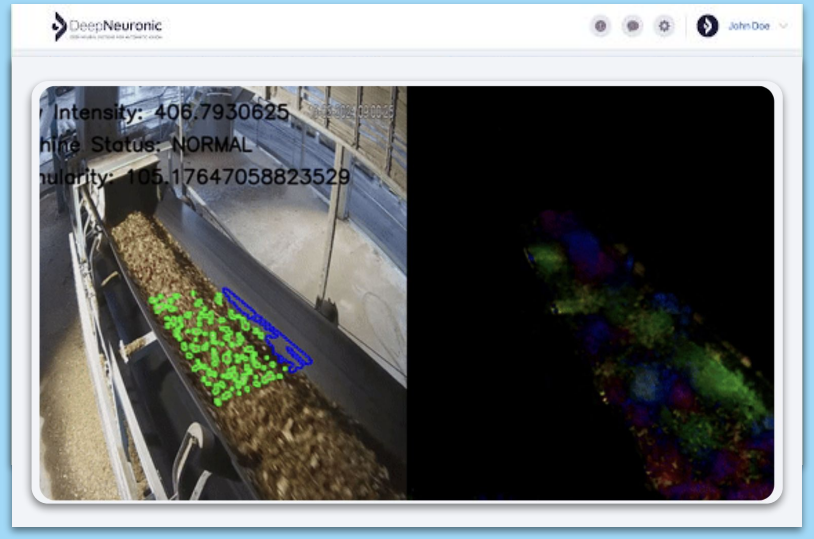


DeepNeuronic

Production and Industry Control

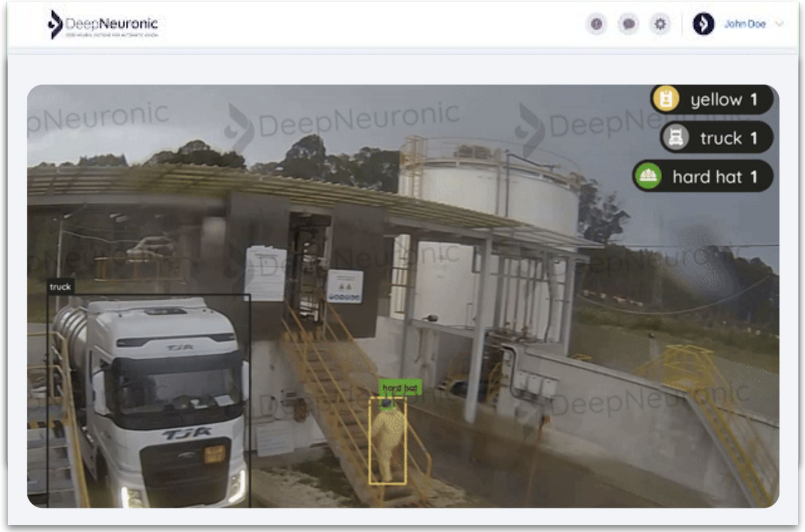
1. **Automatic Filling** System
2. Extraction of **Volumetric Areas** in Material
3. **Cross-referencing data** with production information

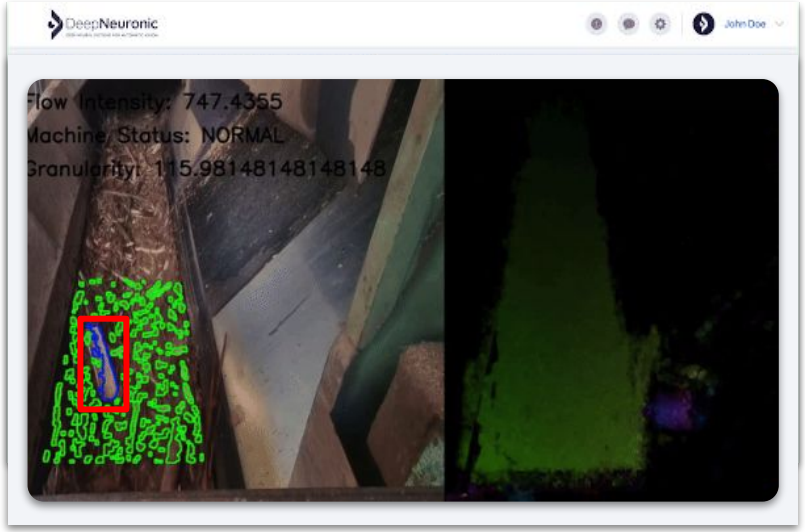




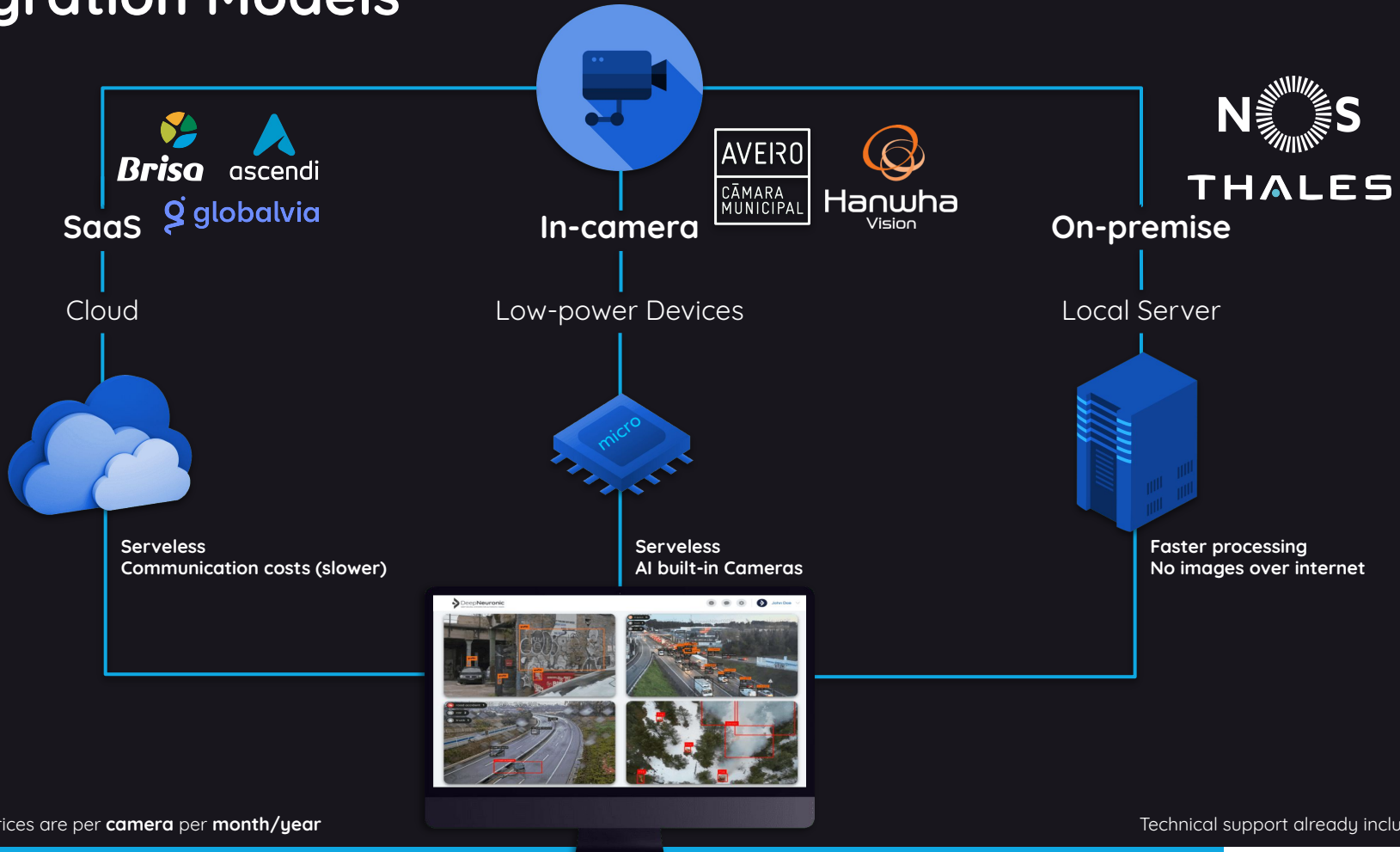
Security and Quality Control

1. Verification of **Personal Protective Equipment** (PPE)
2. Detection of **anomalies** in production lines
3. Identification of **danger zones**, access, and **alarms**





Integration Models



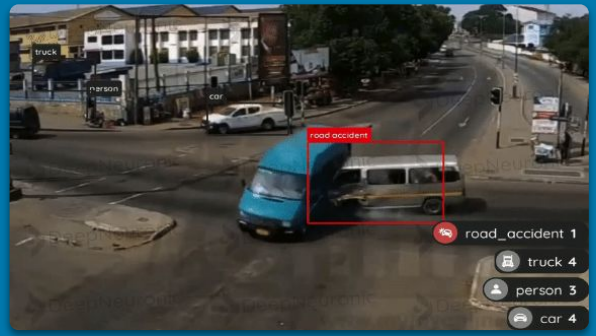
Over our 3 solutions prices are per **camera** per **month/year**

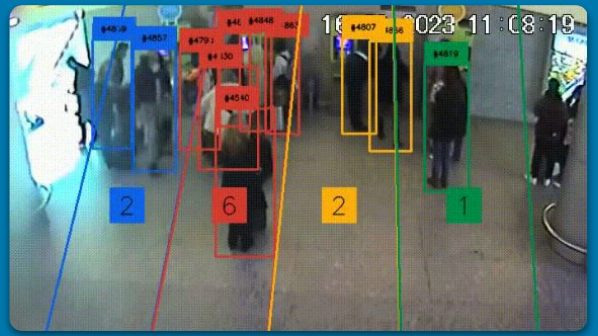
Technical support already included

Market Segments

Transport & Mobility

globalvia | Brisa | THALES | ascendi

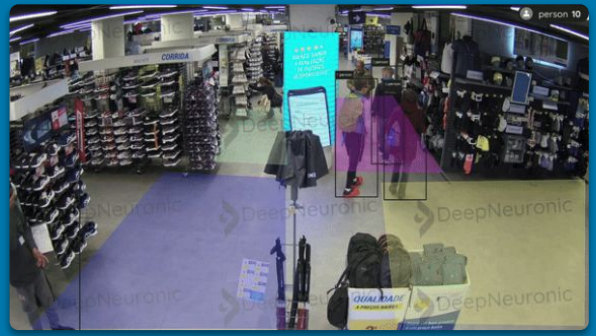


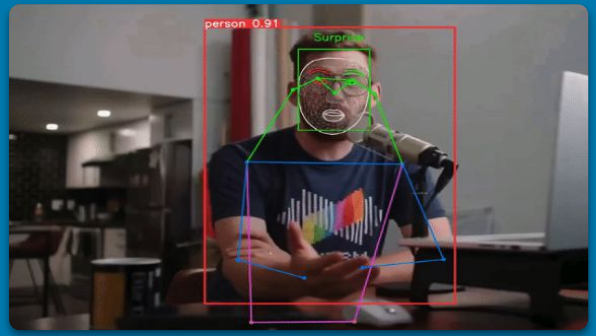


Market Segments

Retail

MC Sonae | wells | worten | DECATHLON | NOS

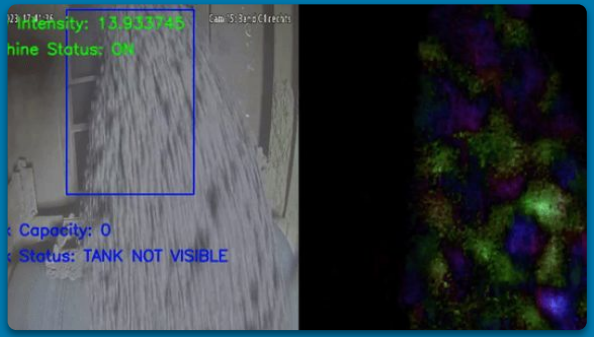


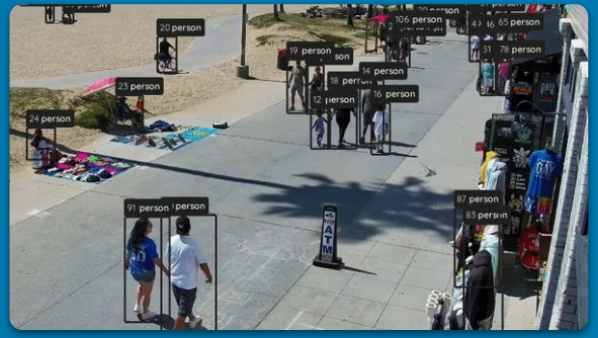


Market Segments

Smart Cities & Industrial

AVEIRO CÂMARA MUNICIPAL | MOTOROLA SOLUTIONS | BOSCH | DNCS





Team

Vasco Lopes
Co-founder & CEO

Ph.D. Engenharia Informática na UBI.
Co-fundador @ CovidSight.
Investigação em otimização neuronal.

Bruno Degardin
Co-founder & CTO

Ph.D. Student Engenharia Informática na UBI.
Co-fundador @ CovidSight.
Investigação em compreensão de vídeo.

Vitor Crespo
CSO

CEO @ HealthTech Lisboa.
Últimos 11 anos @ Microsoft.
Previamente @ Xerox, Accenture e Bull.

Gabriela Martins
Sales

Desenvolvimento de negócio.
Gestora de Projetos.
Previamente @ HP.

Lars Wahlström
Board Advisor

Ex Vice-president @ Oracle.
Former CEO @ Affecto.

Luiz Zanlorensi
ML Ops Engineer

Ph.D. Engenharia Informática na UFPR.
Previamente Data Scientist @ Natosafe.
Investigação em biometria.

João Brito
Computer Vision Engineer

M.Sc. Engenharia Informática na UBI.
Investigação em biometria e interpretabilidade.

Pedro Brito
Cloud Engineer

M.Sc. Engenharia Informática na UBI.
Investigação em compreensão de vídeo.

Bruno Buss
Software Engineer

Perícia em front-end, UI/UX design e desenvolvimento de produto.

Pedro Marques
Software Engineer

M.Sc. Engenharia Informática na UBI.
Perícia on front-end, back-end development.

Daniel Van den Broeck
Business Advisor

Ex Senior Vice-president and Sales Director @ Oracle.

DeepNeuronic

AI Powered Technology

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Apoios:
EUROCC PORTUGAL
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PRR Plano de Recuperação e Resiliência
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