
VENETO DATA PLATFORM

Regione del Veneto
Direzione ICT e Agenda Digitale

24/06/2024

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Introduction to the Veneto Data Platform (VDP)



The Veneto Data Platform aims to create a **regional platform** for local public administrations, promoting **an innovative and informed "territory" through ICT and other means** to improve:

1. **The quality of life** in the territories and their communities
2. **Territorial competitiveness**, with attention to economic, social, and environmental aspects.
3. **The effective governance of the territory**



MyData

The technological component consisting of a series of infrastructures and technological systems that support the digitalization processes of Veneto's public administrations



Data Authority

The component that defines the activities, structure, and responsibilities of the Centers of Competence, which are bodies established to carry out data analysis activities, historical series evaluations, and predictive model development



Data Strategy

The component that defines the mission and vision of the Veneto Region in the field of data management, which constitutes the element with the highest potential for innovation



Data Governance

The component that outlines operational and organizational models for data management, including procedures, standards, and policies

From Smart City to Smart Region



REGIONE DEL VENETO



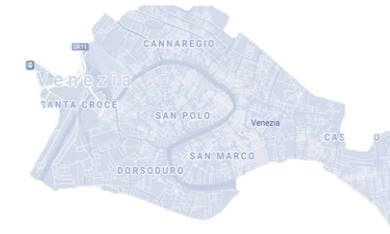
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DIGITALE
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**Holistic
Approach**

Comprehensive Well-being Measurement

consists of evaluating well-being across cities and surrounding zones.



A **Smart City** focuses on isolated city metrics



**Integrated
Data Analysis**

Cross-referencing data

consists of combining data from multiple sources for accurate regional insights.

Data sources:



A **Smart Region** encompasses cities and surrounding areas, integrating data from multiple sources for a holistic view

MyData and its evolution



The **MyData** Project, initiated in 2021 with the pilot in the mobility sector, where the Municipality of Padova was the project lead, is evolving. Currently, the Veneto Region is advancing **six projects to expand the scope of application of the Veneto Data Platform**.

Integration with the SRPS (Regional Health and Prevention System)

MaaS project

Mobility Hub project

Environment & Energy

Welfare & Social

Smart Ticketing

CASE STUDY: MyDTA

Case Study: MyData



PROJECT SIZE



COST

€ 3.760.000
(of which about € 920.000
assigned to Padova)



FUNDING

POR FESR 2014-2020



PAs

28 Municipalities
including 4 Provincial capitals
(Padova, Verona, Vicenza,
Treviso)



PROJECT END DATE

July 2023

TOOLS



DATA INGESTION

Ingestion of large amounts of
data about events, objects,
behaviors, etc.



DATA ANALYSIS

Analysis of data acquired from
different sources



DECISION-MAKING

Tools to support planning
decisions (PUMS, PAESC, ..)



OPERATIONAL DECISIONS

Tools to support operational
decisions (Smart Control
Room)

Tools for the smart control room

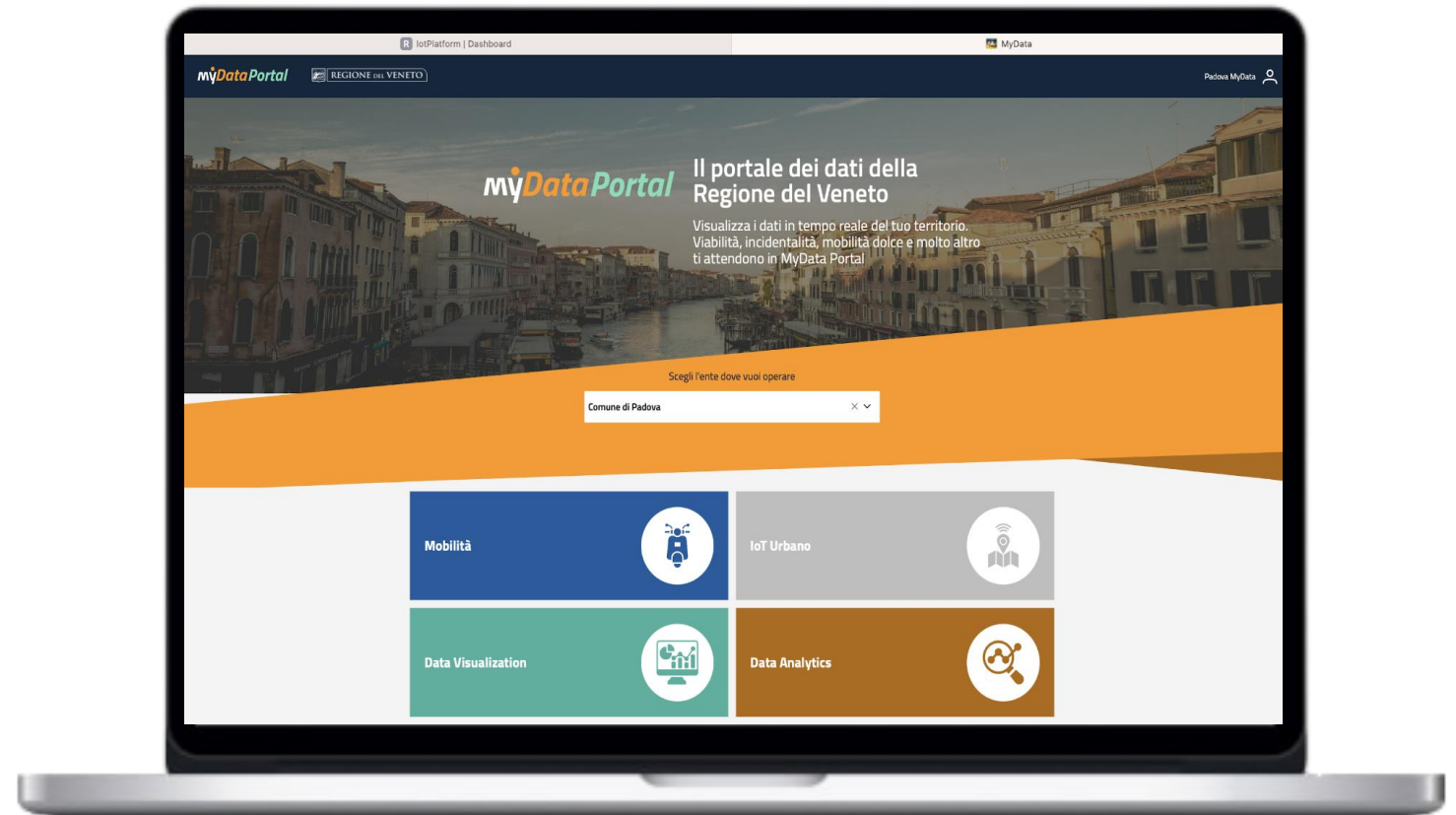
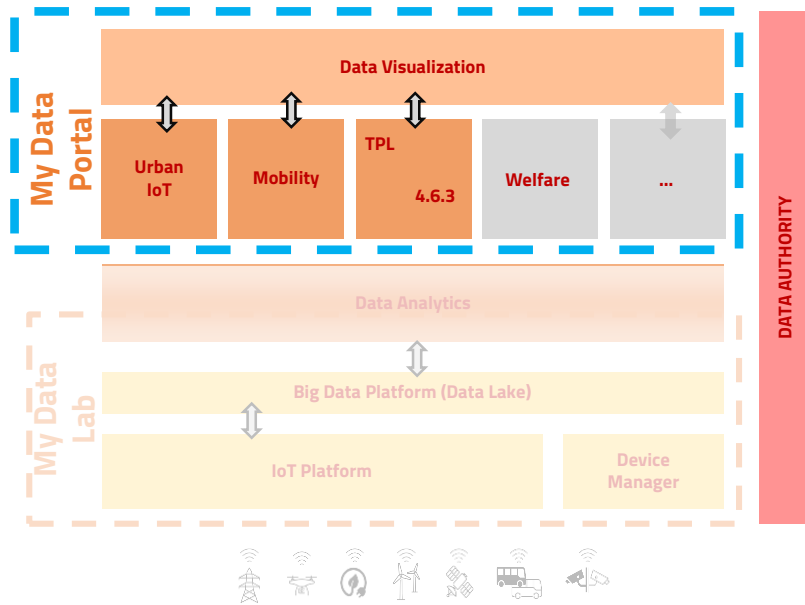
Dashboard with a map showing the following information:

- Construction sites on public land
- Road accidents detected by the Local Police
- Real time occupation of parking lots
- Vehicle traffic
- Availability and location of bikes and scooters for hire

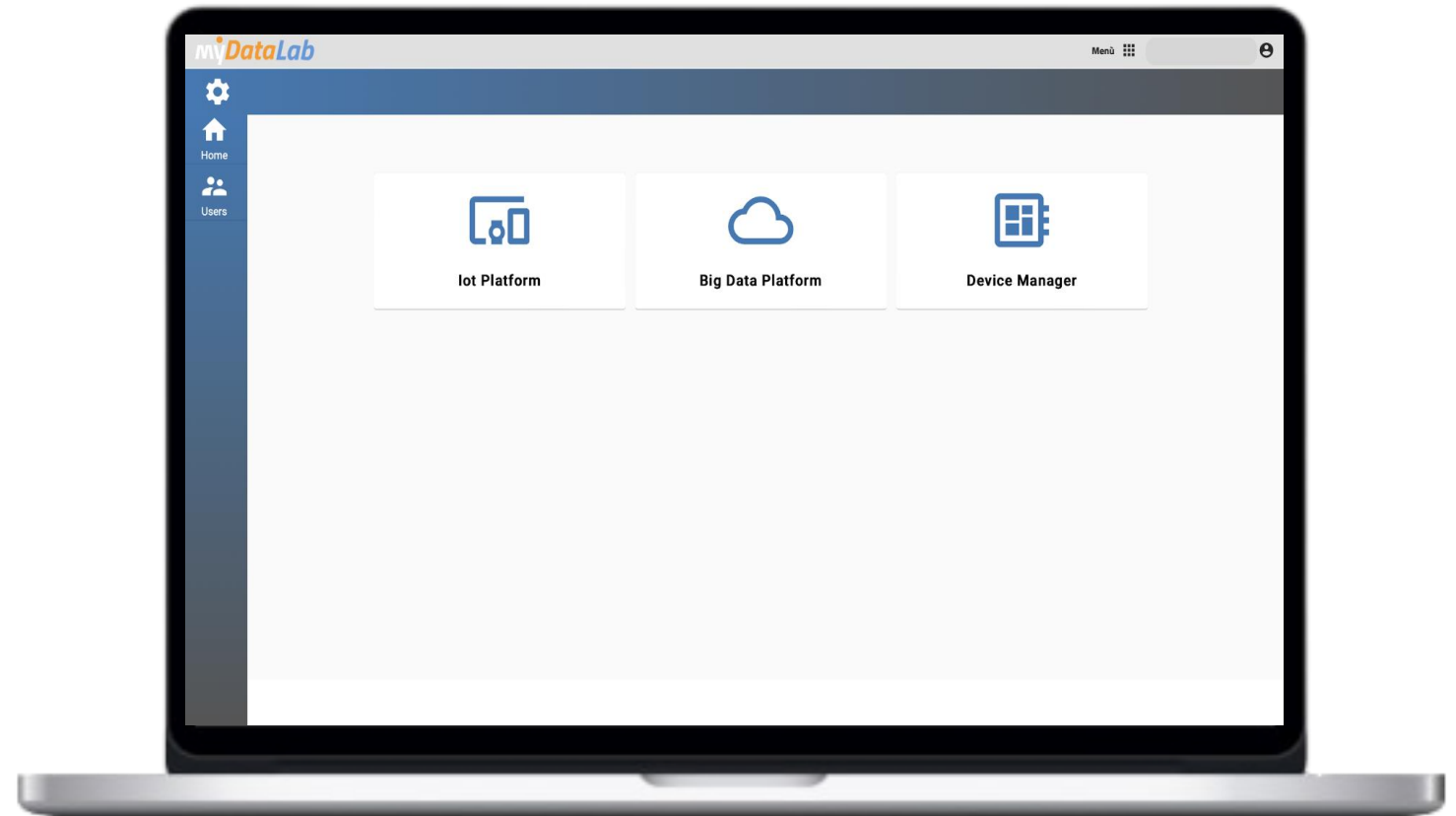
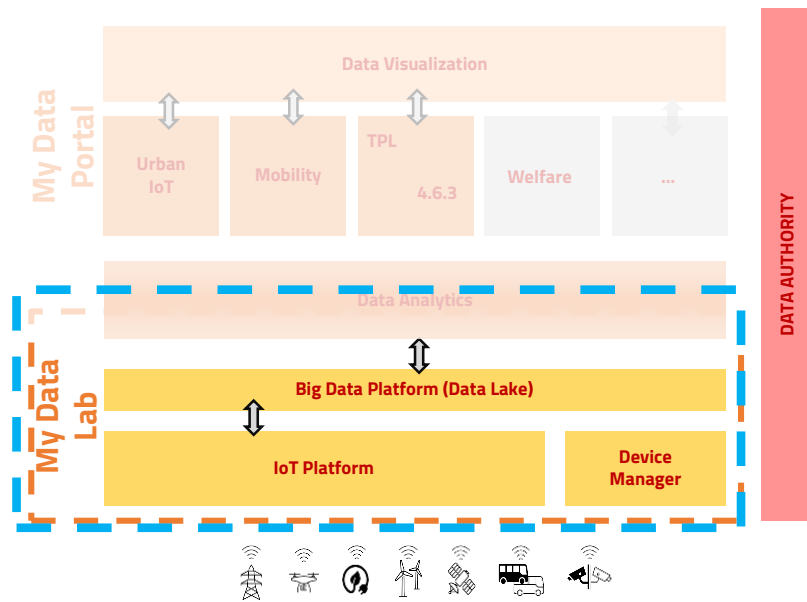
Decision support tools

- Traffic flow analysis
- Pedestrian flow analysis
- Parking lots occupation analysis
- Access to traffic restricted zone analysis
- Distribution of resident population
- Localization of economic activities (Infocamere)
- Spacial distribution of people with fragilities
- Environmental data analysis (Temperature, Humidity, PM 2,5/10)

Case Study: MyData



Case Study: MyData - MyData Lab



Case Study: MyData Portal - Mobility



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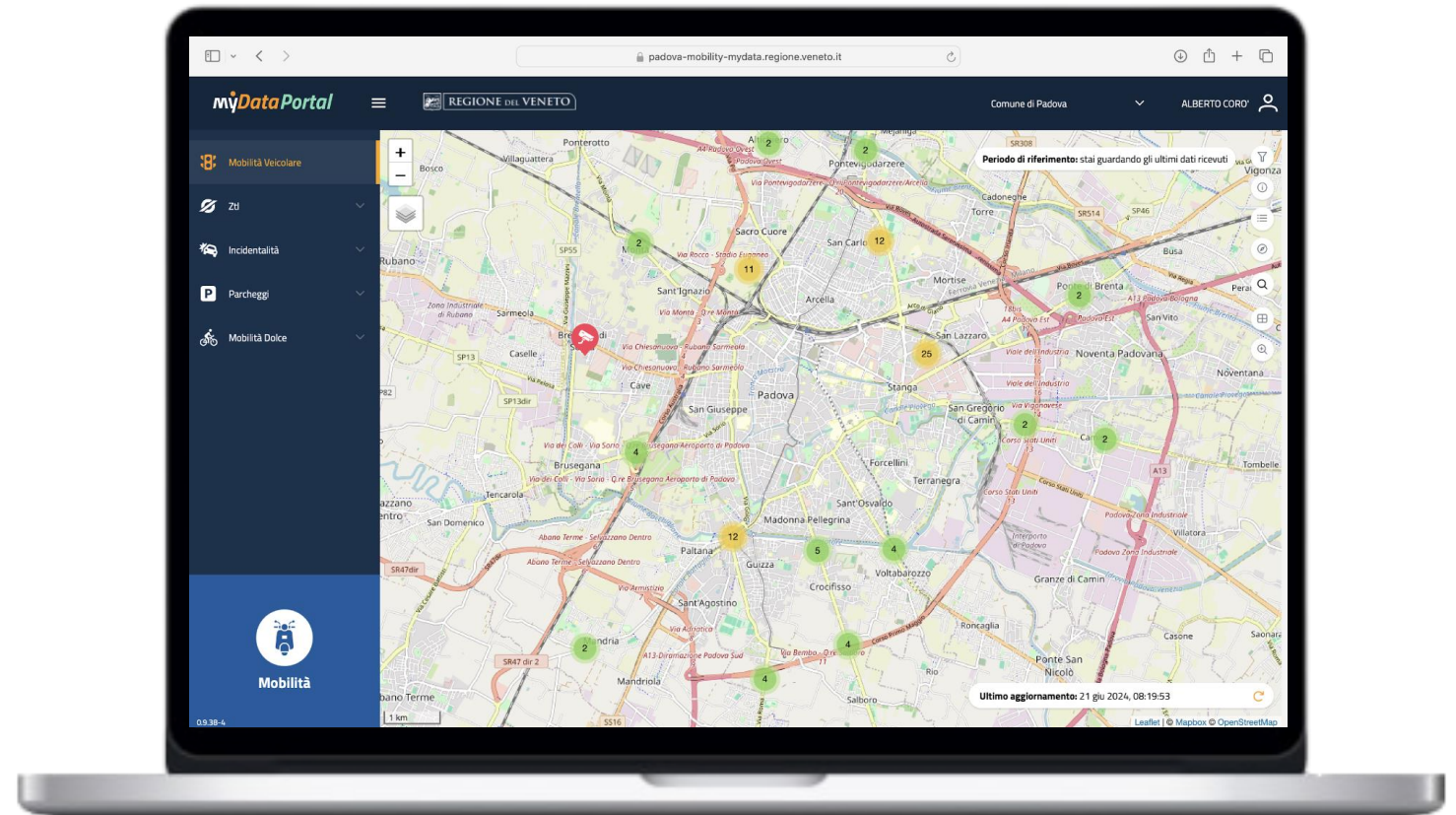


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Vehicle traffic

The Municipality of Padua gets data from 96 pre-existing traffic-cams with three aims:

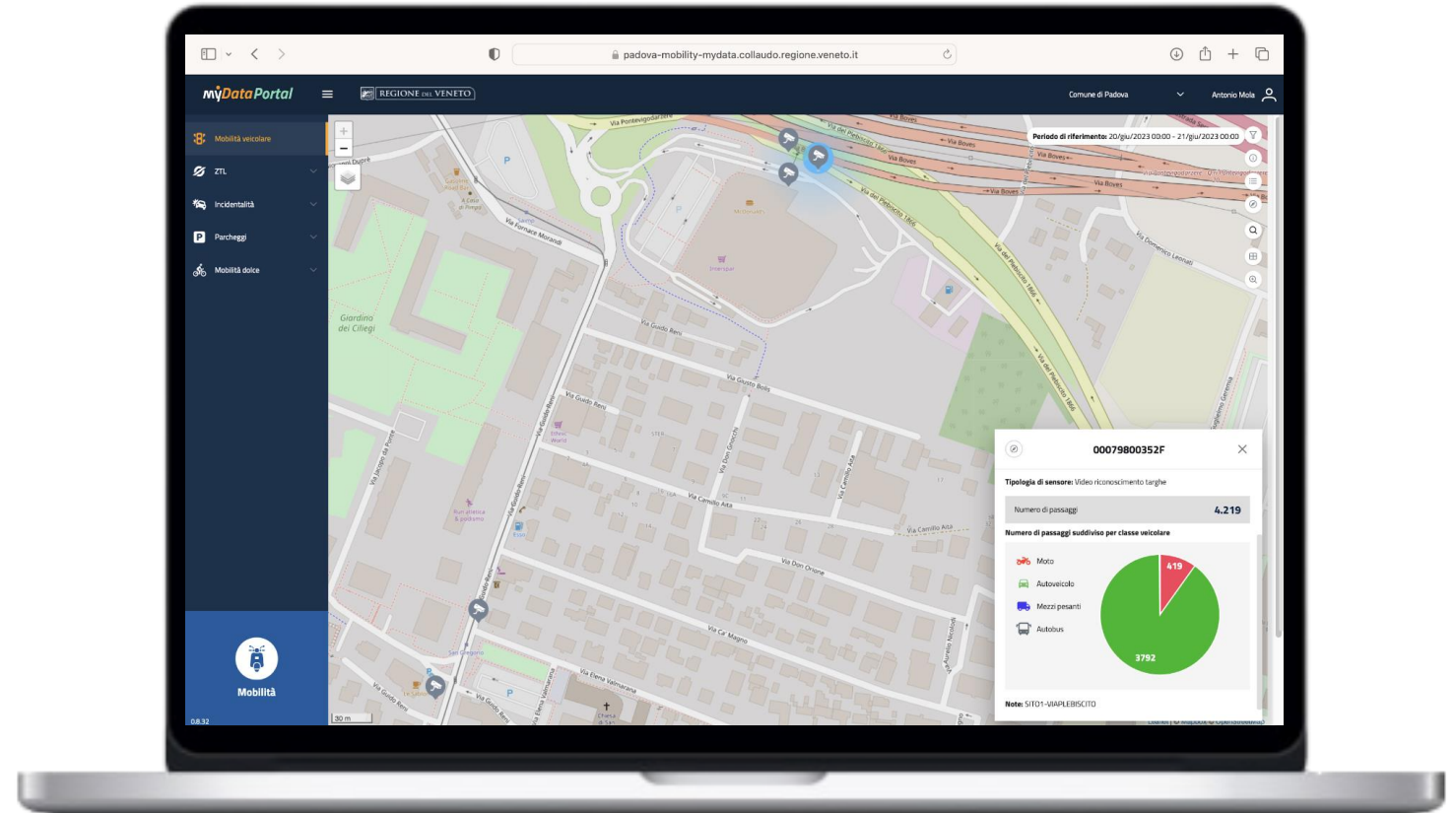
- Security
- Road Safety
- Traffic monitoring (counting and classification)



Case Study: MyData Portal - Mobility



The Traffic-Cam System sends to MyData a data stream every 5 minutes with counting and classification

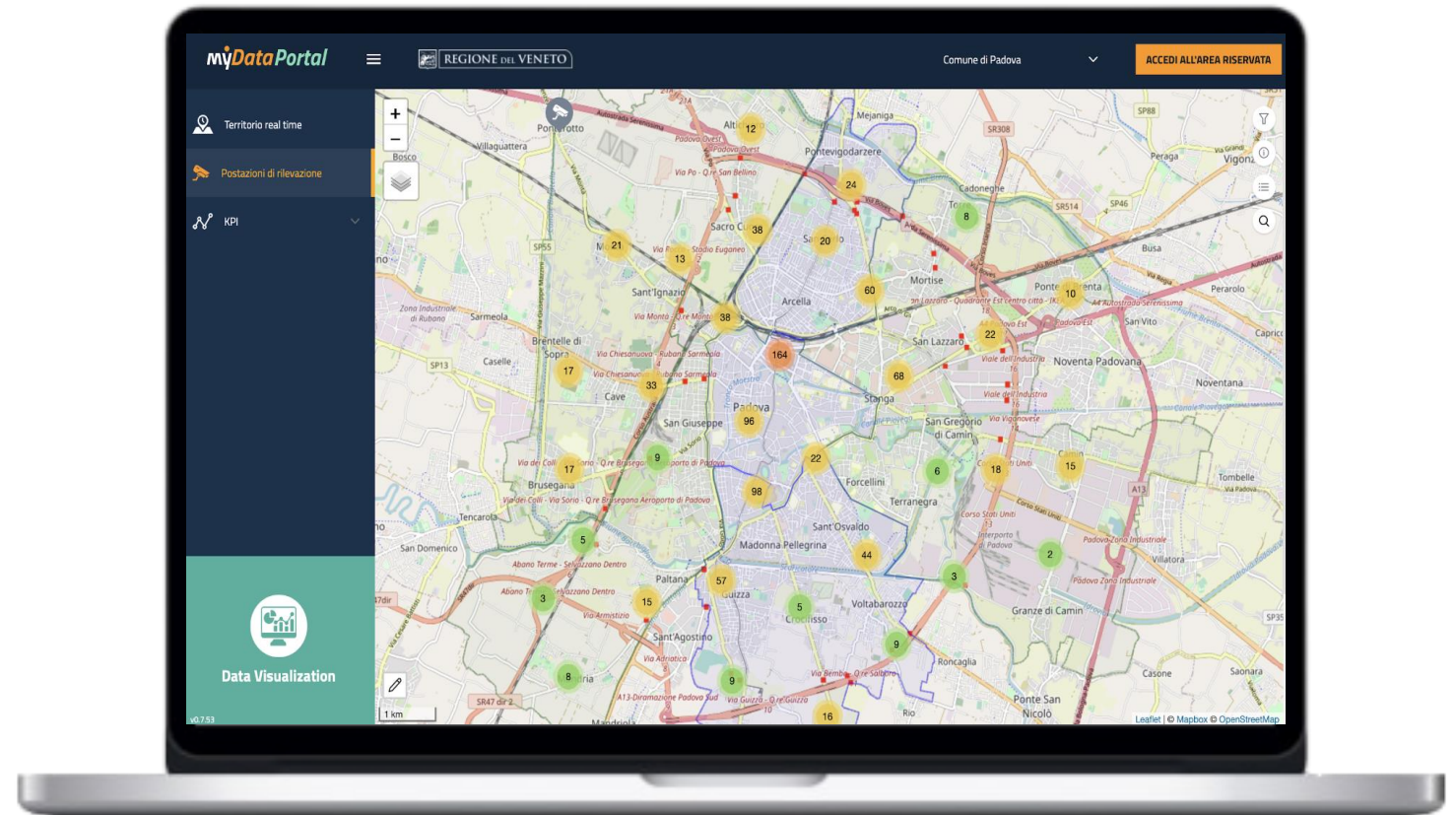


Case Study: MyData Portal – Soft Mobility_Bike Sharing (1/2)



MyData collects soft mobility data from:

- Bike sharing operators (for hire) – only GBFS
- Scooter sharing operators (for hire) - only GBFS
- Sensors located in bike paths (both private and sharing bikes) - counting

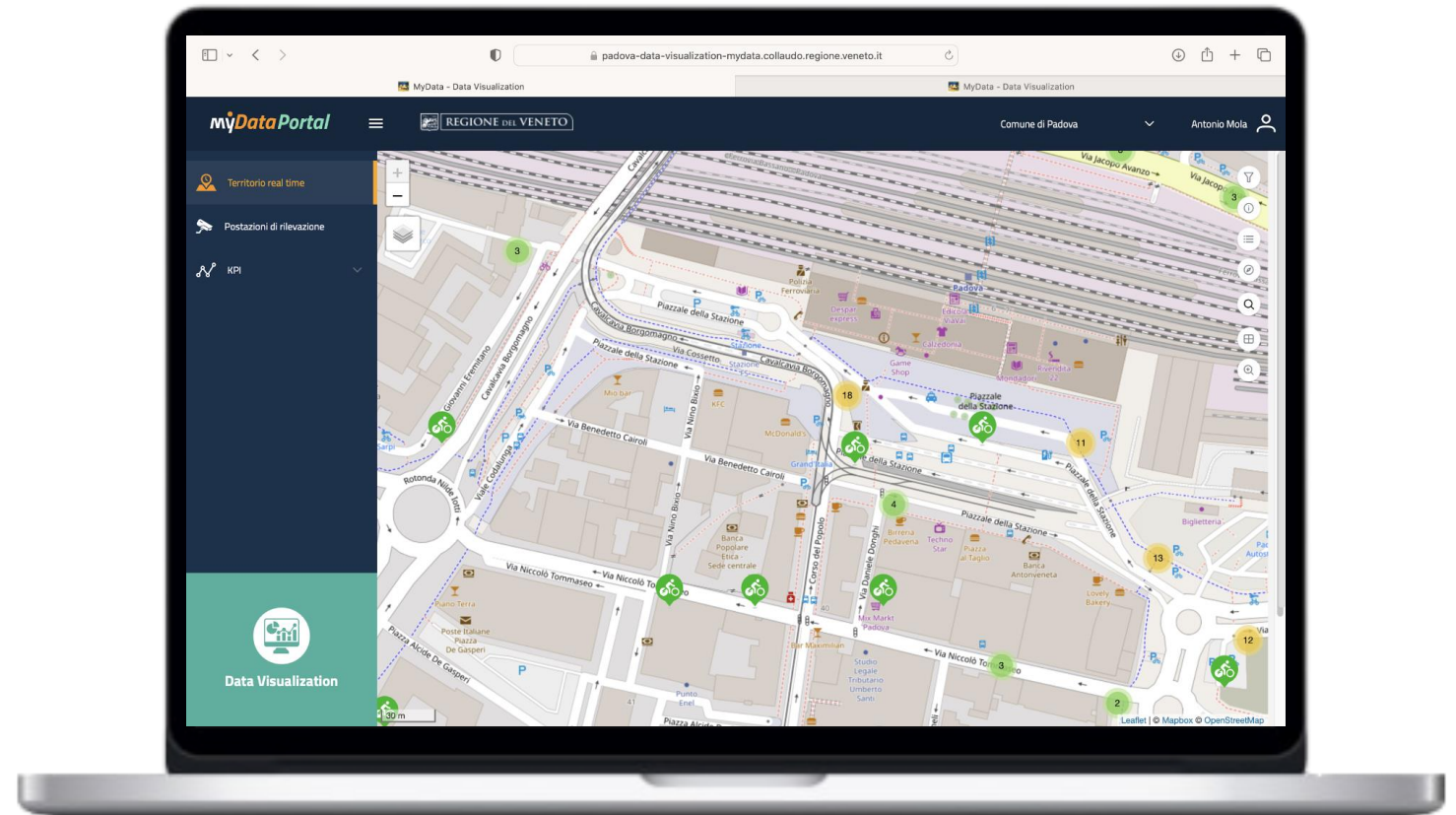


Case Study: MyData Portal – Soft Mobility_Bike Sharing (2/2)



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Case Study: MyData Portal – Mobility_Parking lots (1/2)



Parking lots:

- Parking in closed structured areas
- Parking on the road (delimited by blu lines)

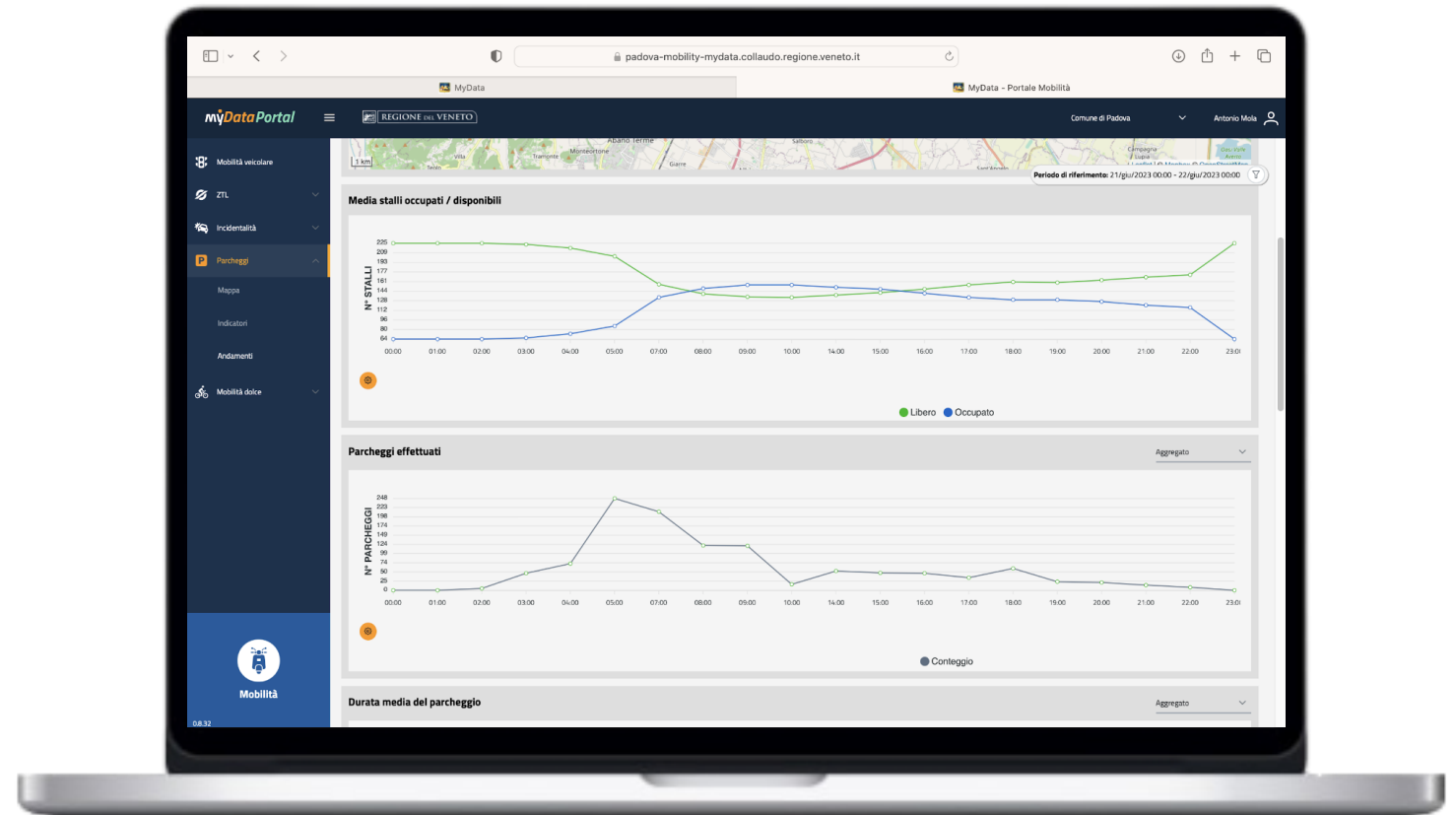


Case Study: MyData Portal – Mobility_Parking lots (2/2)



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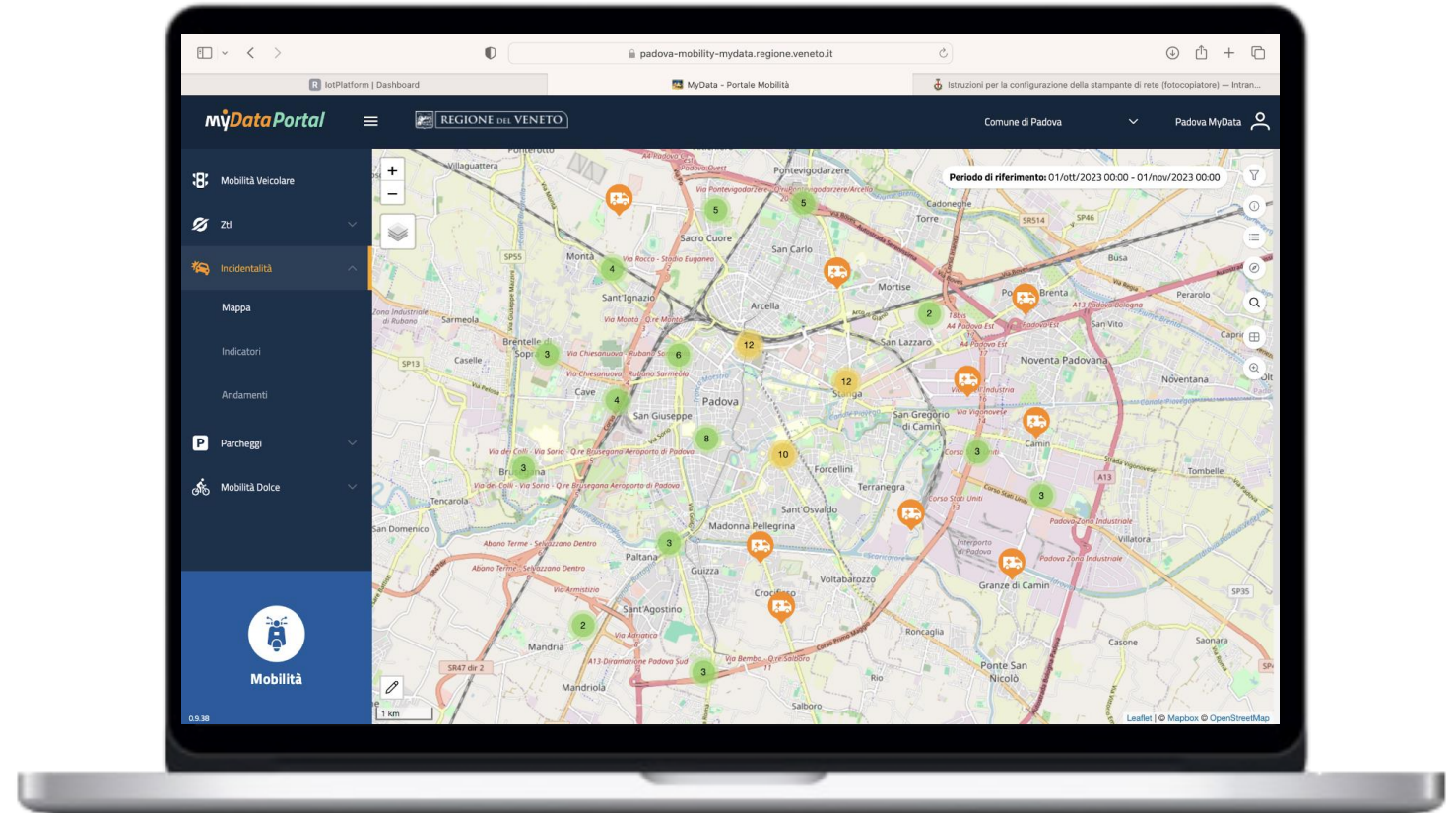


Case Study: MyData Portal – Mobility_Car accidents (1/3)



Car accidents:

- Accidents report from Municipality Police (from the Municipality Police Data Base)

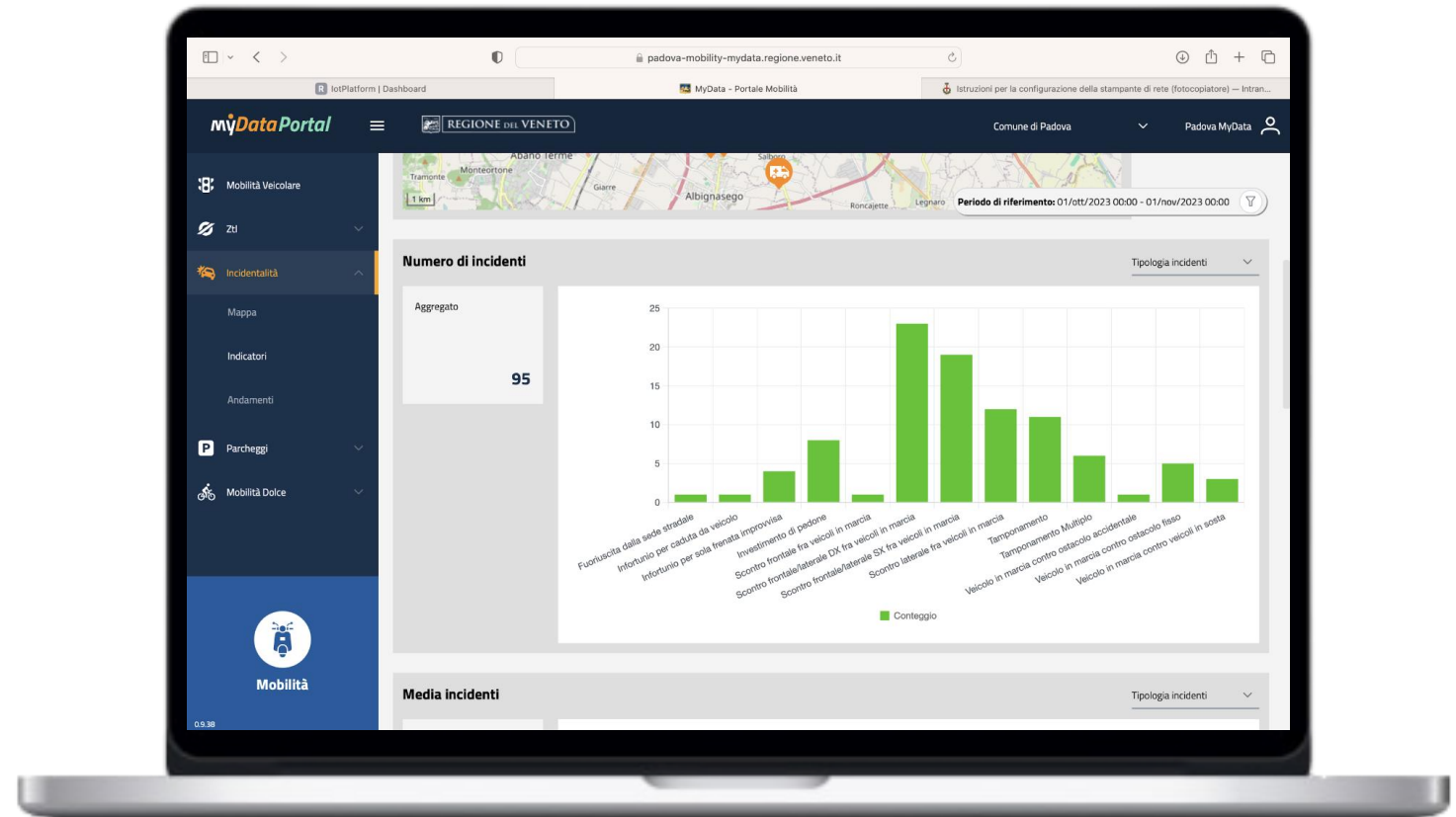


Case Study: MyData Portal – Mobility_Car accidents (2/3)



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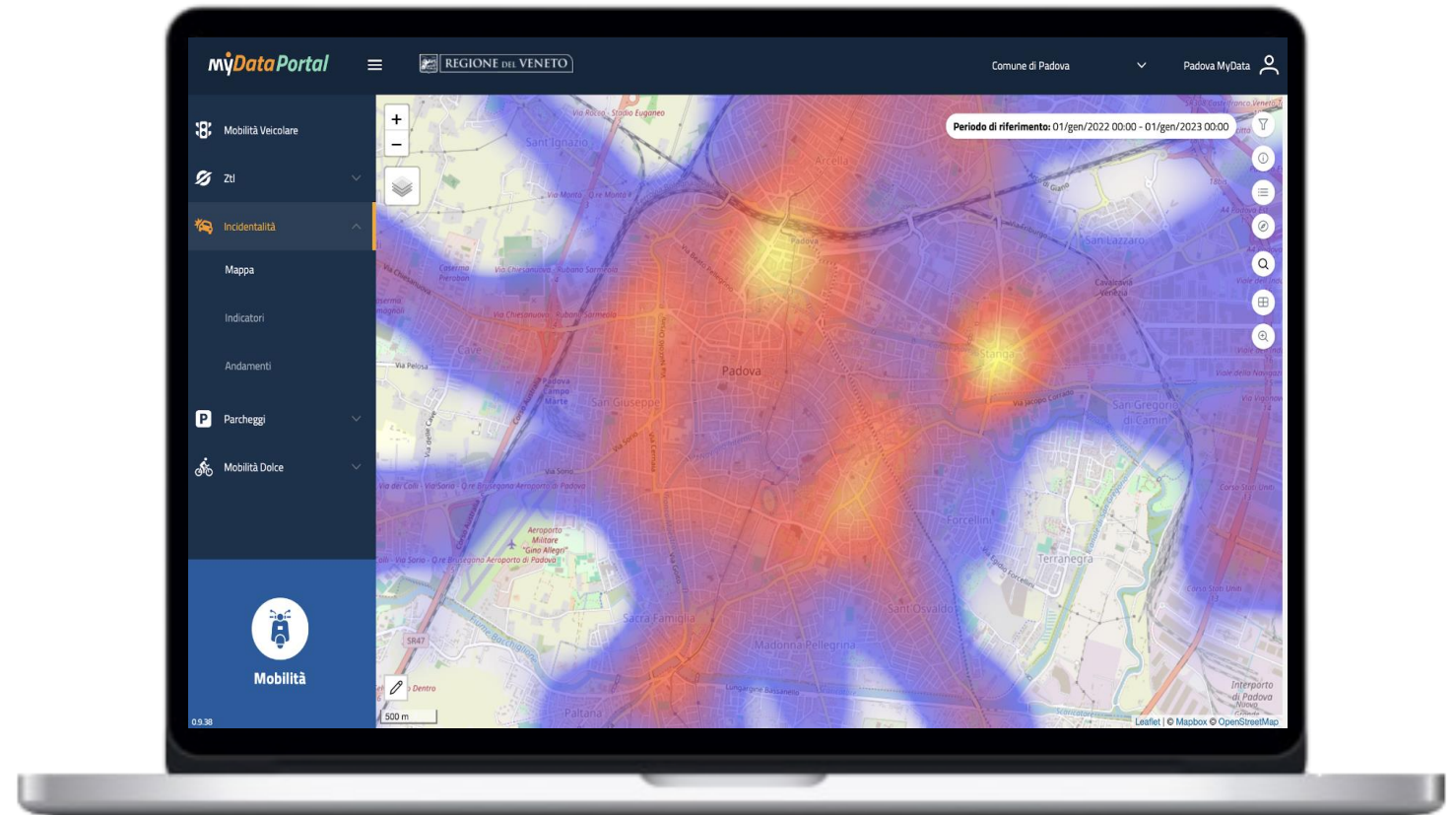


Case Study: MyData Portal – Mobility_Car accidents (3/3)



Car accidents:

- Accidents report from Municipality Police (from the Municipality Police Data Base)



Case Study: MyData Portal – Mobility_Environment



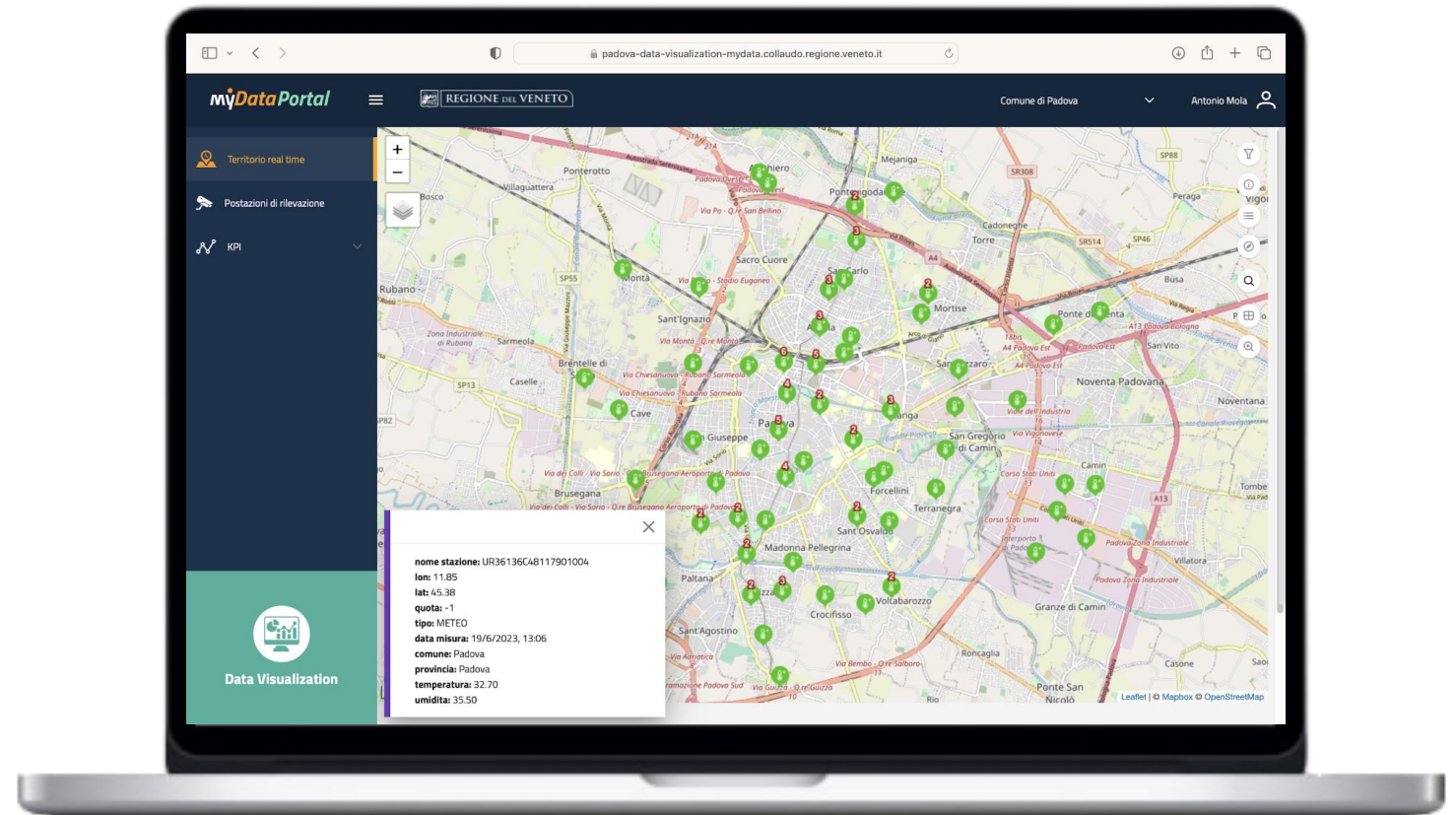
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Temperature and Umidity
sensors

Use case "Analysis of Urban
heat island"



MyData – DataLab

Pedestrian flows, entering and exiting Piazza dei Signori

Situation on Sunday, February 26, 2023 at 4pm



Dashboard > Varchi Piazza dei Signori



Rule chain



Clienti



Asset



Dispositivi



Viste entità



Libreria Widget



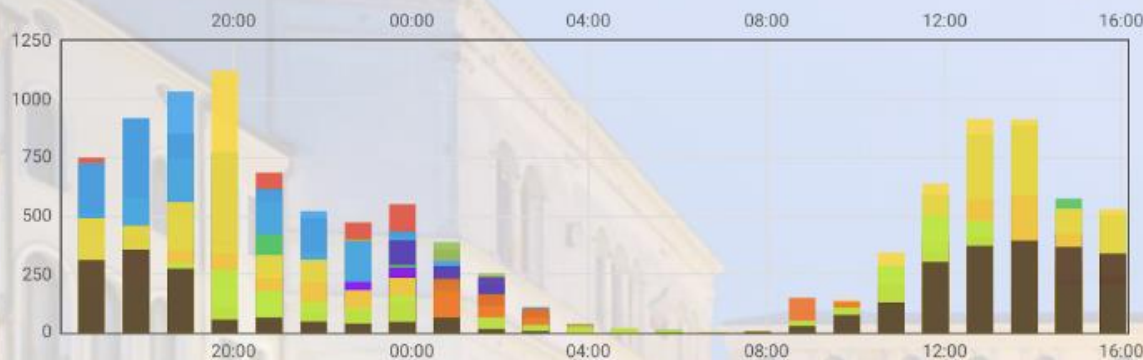
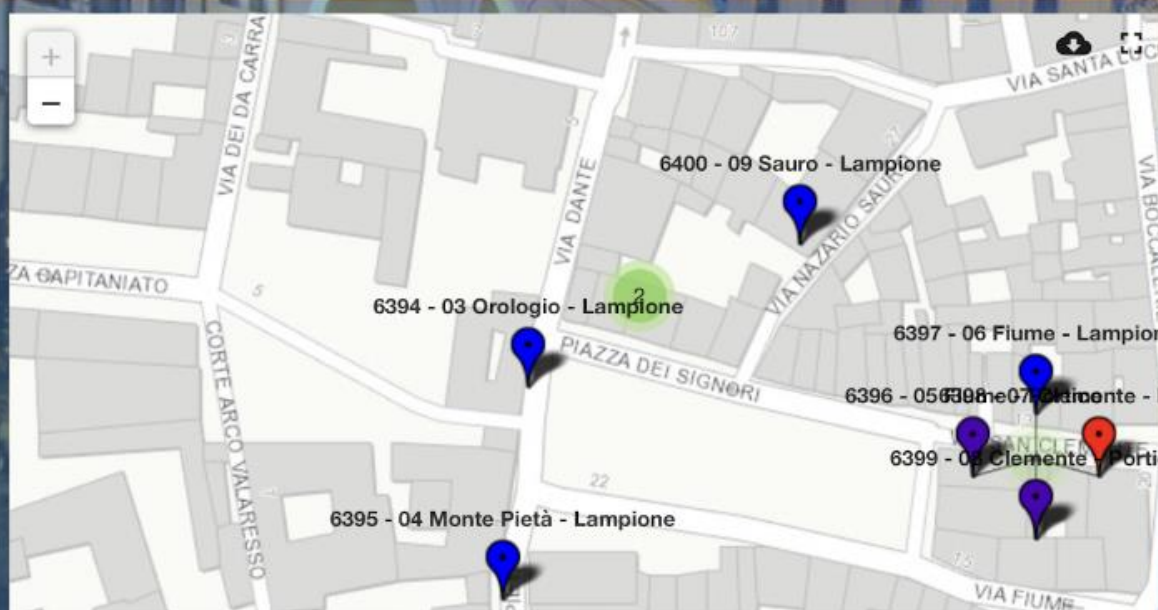
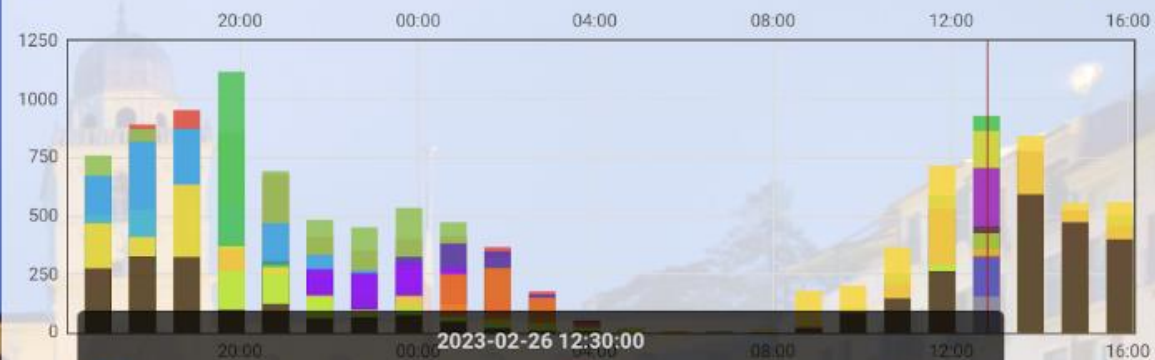
Dashboard



Log Audit

Varchi Piazza Dei Signori

Varchi Piazza dei Signori ▾

 Entità Realtime - ultimo giorno Andamento Ingressi Andamento Uscite

Leaflet | Tiles © Esri — Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), and the GIS User Community

 Redo Varco

04 Monte Pietà - Lampione:	503	02 Dante - Portico:	180
03 Orologio - Lampione:	407	01 Dante - Lampione:	108
07 Clemente - Lampione:	333	09 Sauro - Lampione:	97
06 Fiume - Lampione:	317	05 Fiume - Portico:	87
08 Clemente - Portico:	190		

2023-02-26 12:30:00

07 Clemente - Lampione (day ago):	928	08 Clemente - Portico (day ago):	358
04 Monte Pietà - Lampione (day ago):	864	01 Dante - Lampione (day ago):	332
06 Fiume - Lampione (day ago):	706	05 Fiume - Portico (day ago):	326
03 Orologio - Lampione (day ago):	456	09 Sauro - Lampione (day ago):	155
02 Dante - Portico (day ago):	428		

2023-02-25 12:30:00

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MyDataLab – Use Case



Piazza dei Signori

Pedestrian flows monitoring

Last 24 hours

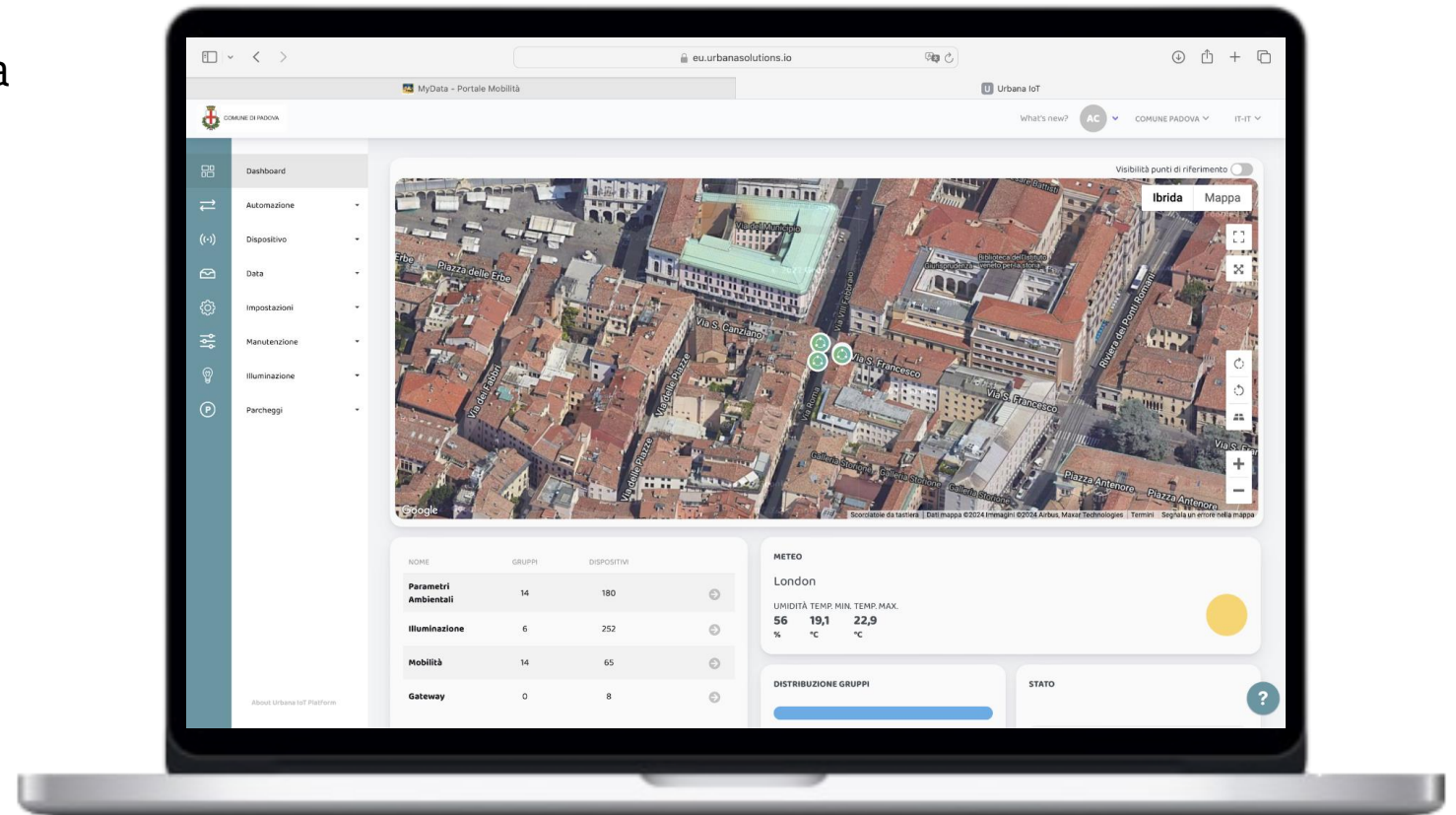


MyDataLab – MyData is an open platform (1/4)



IoT Platform

- Municipality of Padua has integrated a pre-existing IoT platform

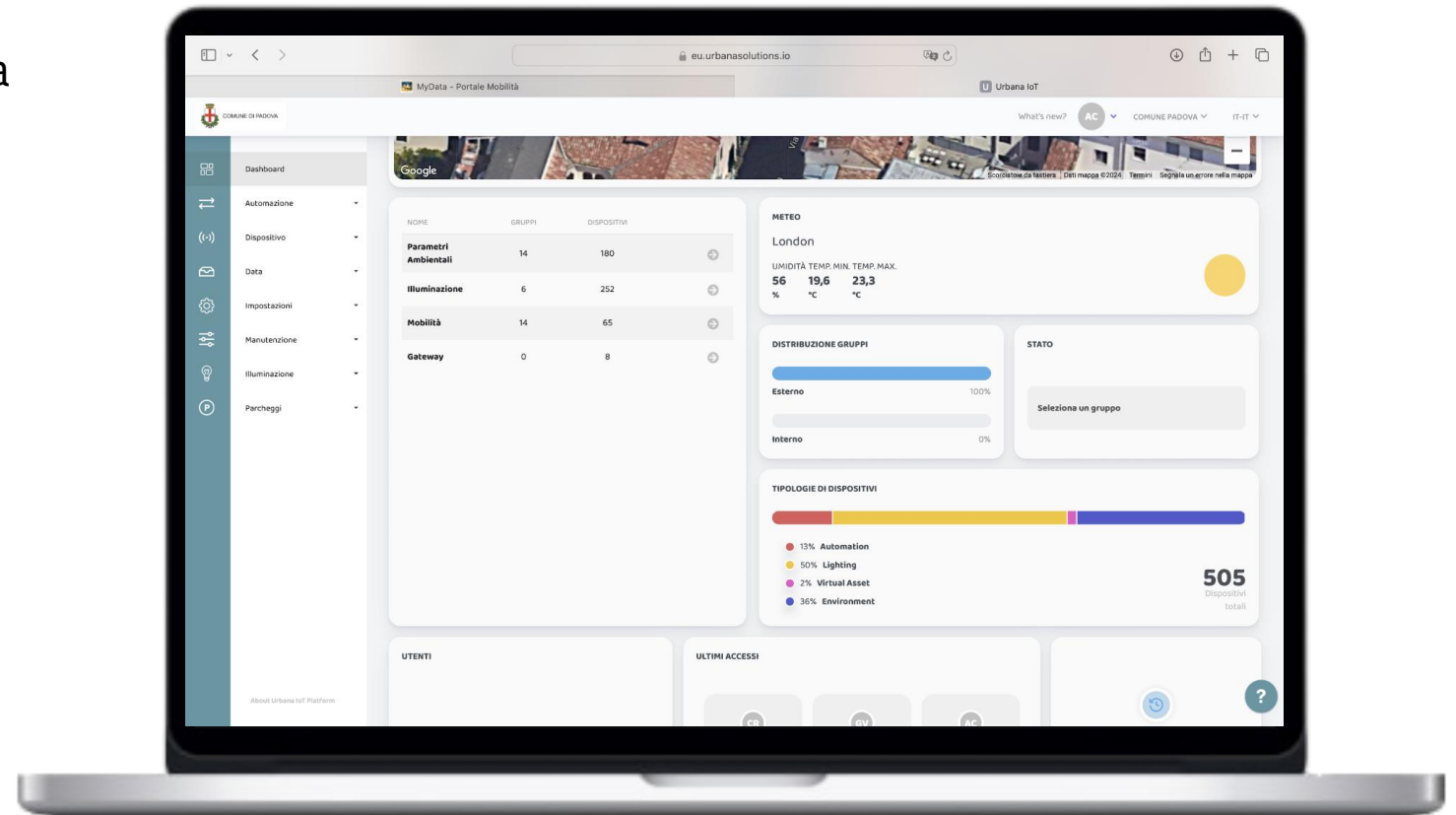


MyDataLab – MyData is an open platform (2/4)



IoT Platform

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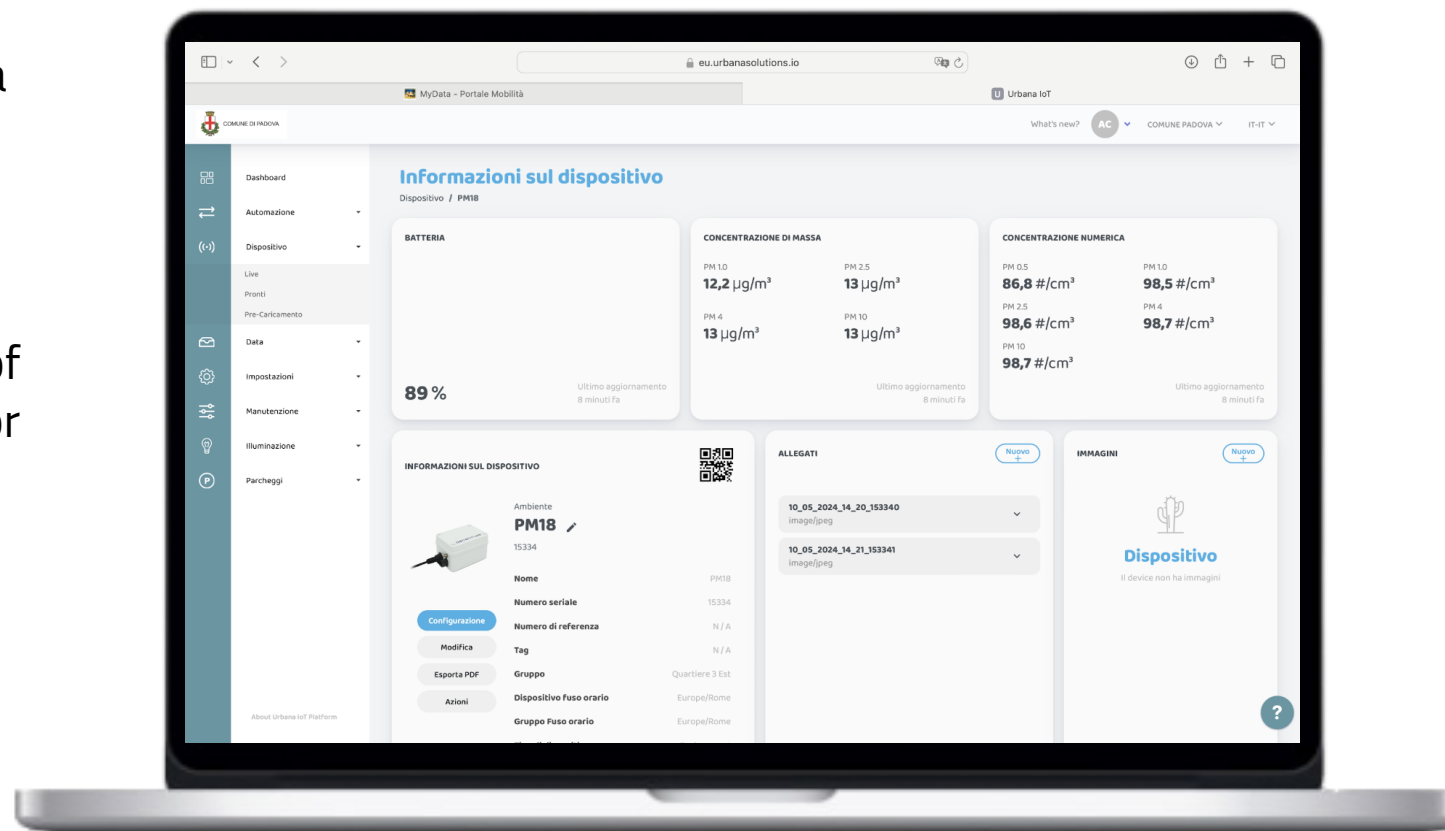
MyDataLab – MyData is an open platform (3/4)



IoT Platform

- Municipality of Padua has integrated a pre-existing IoT platform

An example of pollution sensor



MyDataLab – MyData is an open platform (4/4)



IoT Platform

- Municipality of Padua has integrated a pre-existing IoT platform

An example of
pollution sensor

