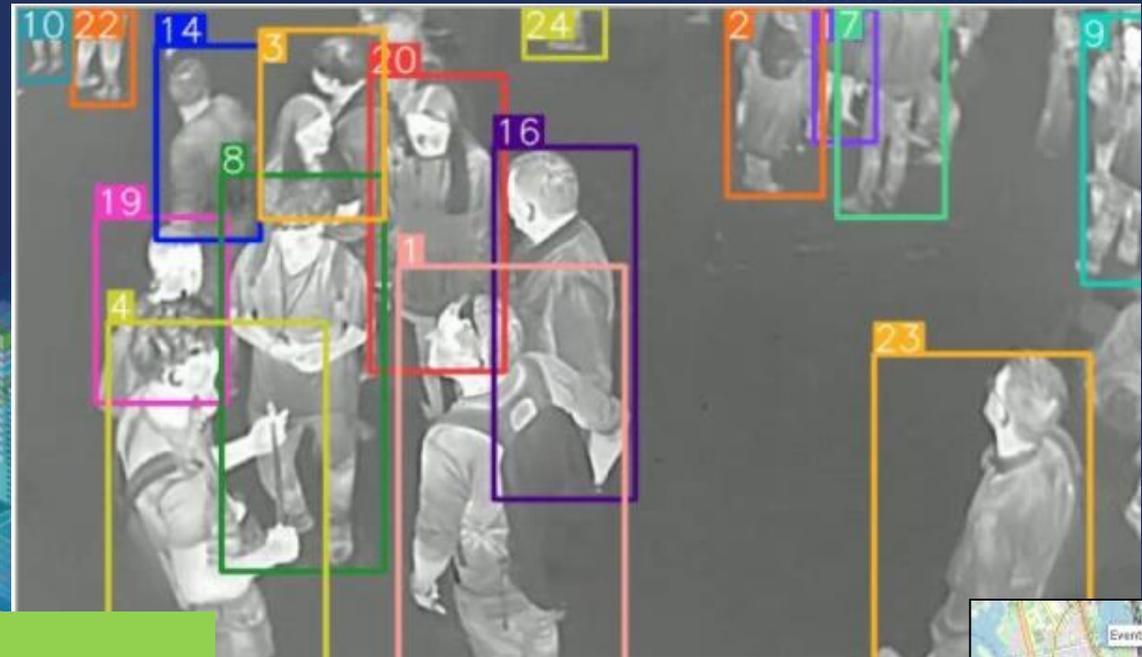




www.snap4city.org
www.snap4solutions.org



Smart Tourism Via Digital Twins



0 1 0 0 1 0 0 1 1 0 1 1
0 1 1 1 0 1 0 1 0 0 1 0

DIGITAL TWIN SOLUTIONS TO SETUP SUSTAINABLE DECISION SUPPORT SYSTEMS AND BUSINESS INTELLIGENCE



UNIVERSITÀ
DEGLI STUDI
FIRENZE

DINFO
DIPARTIMENTO DI
INGEGNERIA
DELL'INFORMAZIONE

DISIT
DISTRIBUTED SYSTEMS
AND INTERNET
TECHNOLOGIES LAB





Goals	How to	technicalities
Keep under control reputation	Measuring and predicting	Multichannel collections of appreciations, AI/LLM, sentiment analysis
Predicting number of presences in advances	Measuring and predicting	Counting, tracking and computing Orig. Dest. Matrices
Controlling the overtourism	Measuring, predicting, suggesting, producing tactics and strategies	Production of suggestions, serious games, engagements, ..
Stimulating actions, stimulating the second offer	Suggesting, engaging, producing tactics and strategies	Production of suggestions, and engagements
Identification of critical conditions	Short and long terms Measuring	In deep data analysis, AI for anomaly detections
Increasing resilience	Monitoring and early warning	Strategies, dynamic routing, real time information to city users

City User behavior analysis multiple data sources

- **Main Data Sources:**

- Mobile Cell data from telecom operators, macro areas
- Mobile App data from their operators, micro areas
- OBU from Insurance operators, only private vehicles
- Social media: limited information and quality
- Local Operators of: museum, ticket office, restaurants, etc.
- Data integrators: a mixt of the above, not clear methods

- **Sensor Data:**

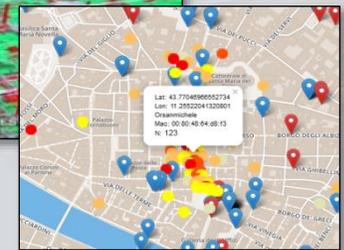
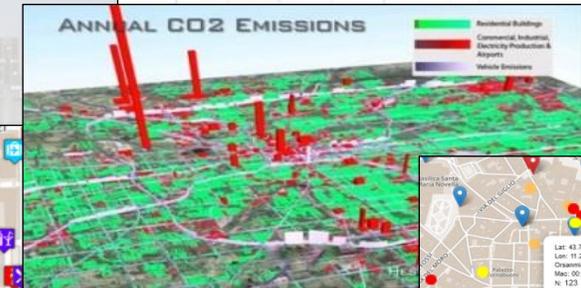
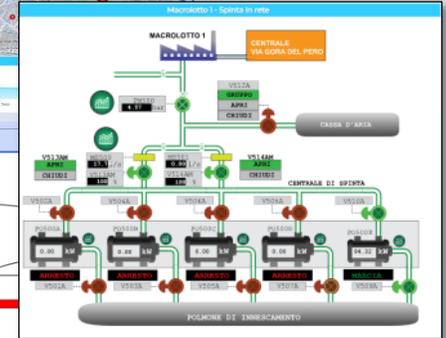
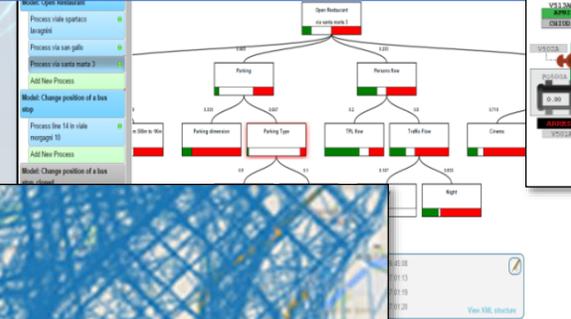
- PAX Counters, Sniffer, Wi-Fi sniffers, Radar, laser, etc.
- TV Camera color, Thermal Cameras, radar track

- ***Snap4City: integration and computing tools for deductions***

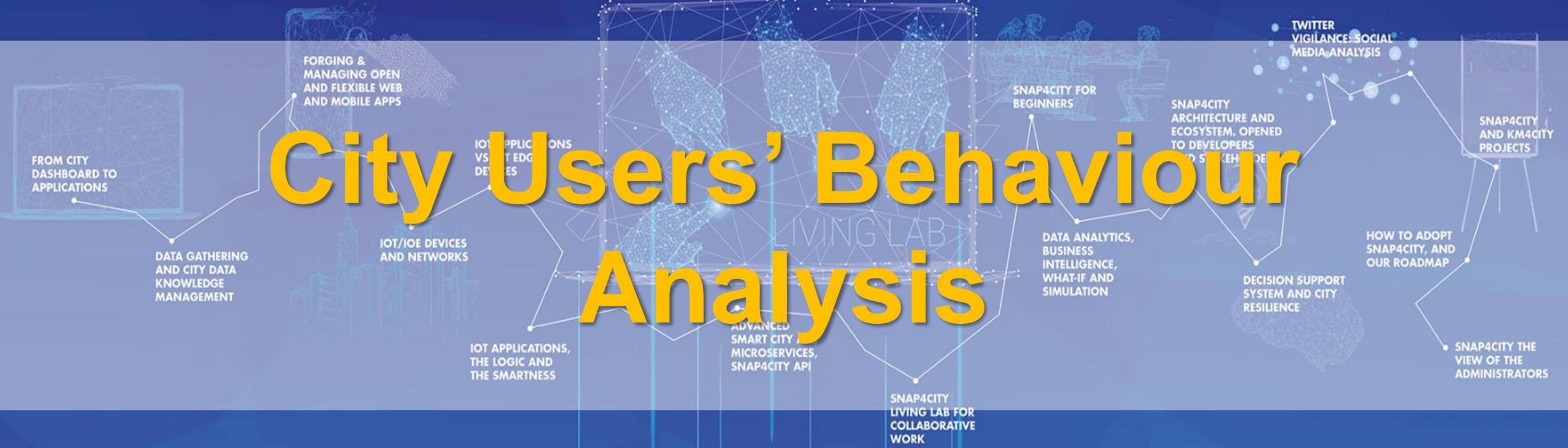
Data Driven Decision Support



- Decision Support system
- Assessment / Strategies
- Data Rendering,
 - visual analytics, business intel..
- Data Analytics, ML, AI
- Data aggregation, Storage, indexing
- Data Ingestion

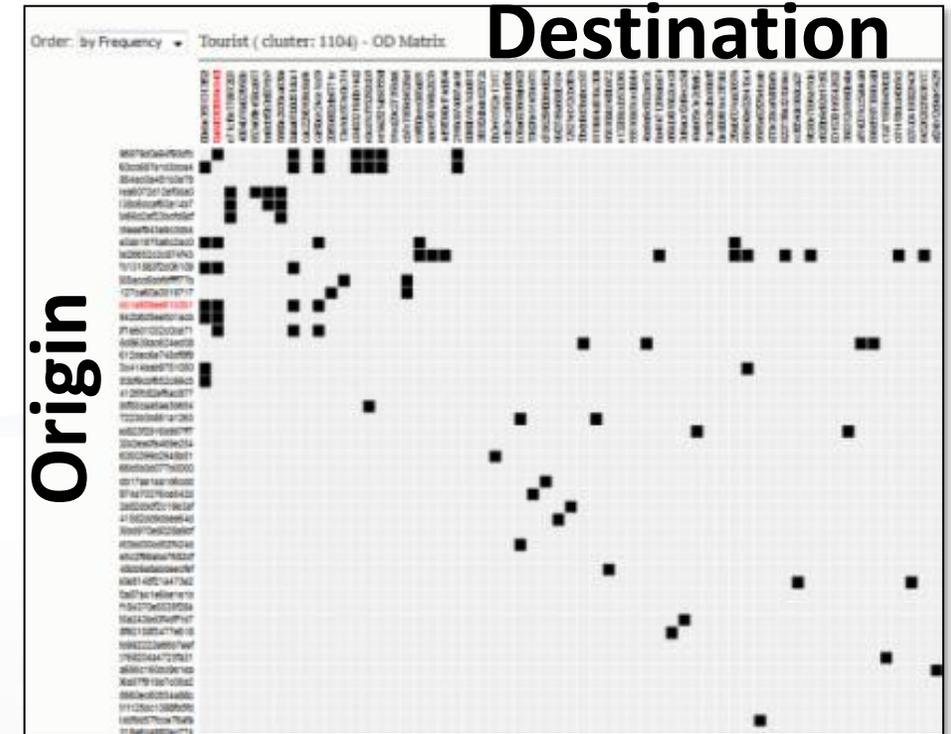


City Users' Behaviour Analysis

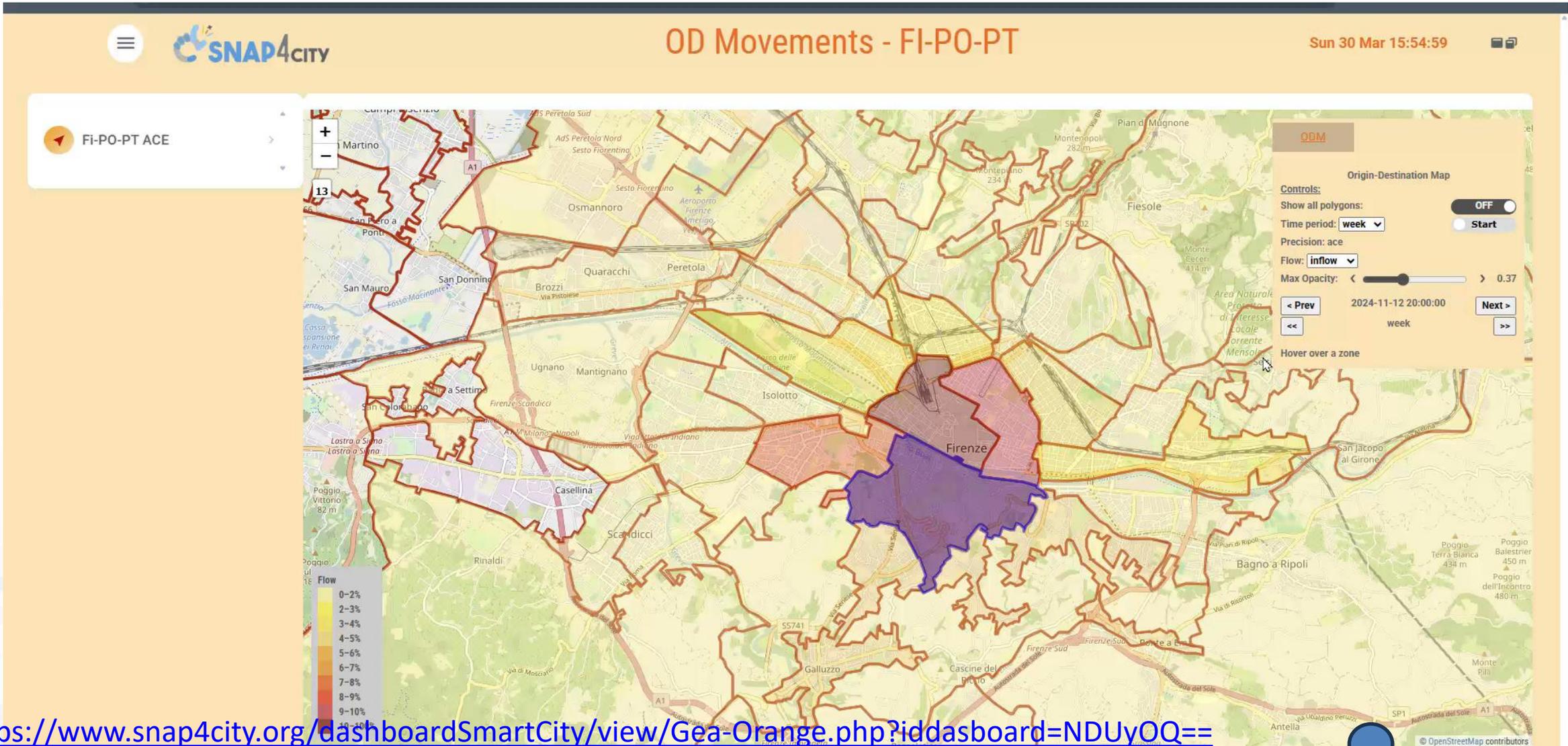


Origin Destination Matrices

- **computed** from several kinds of data
 - Census Data
 - Cellular Mobile Data
 - Mobile App Data **trajectories**
 - OBU from vehicles **trajectories**
 - Composition of multiple sources: ODM + Trj
- **may represent:**
 - Demand of mobility, effective movements,...
 - Offer of transportation
- **refer** to different area kinds for Origin and of Destination
 - Different kinds of OD areas
 - Different kinds of temporal resolutions → animations
 - Hourly, daily, weekly, monthly, etc...



Origin Destination Matrices: Mobility Demand



Presences from Mobile Operator

Presences From Mobile Operator Data

Wed 25 Jun 14:49:24

Map

PAXCOUNTER_FI_139271_95548

DETAILS DESCRIPTION RT DATA

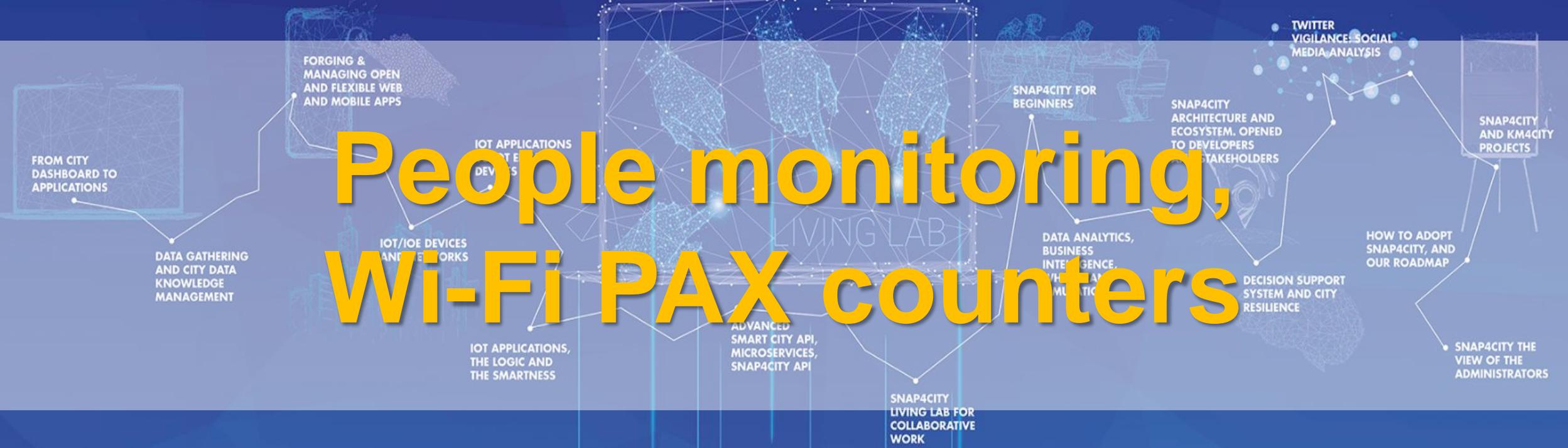
Last update: 2024-11-01 12:00:00.000+01:00

Description	Value	Buttons					
ageRange18_30	45	Last	4h	24h	7d	30d	6m
ageRange31_40	34	Last	4h	24h	7d	30d	6m
ageRange41_50	40	Last	4h	24h	7d	30d	6m
ageRange51_60	44	Last	4h	24h	7d	30d	6m
ageRangeOver60	72	Last	4h	24h	7d	30d	6m
ageRangeUnder18	3	Last	4h	24h	7d	30d	6m
business	28	Last	4h	24h	7d	30d	6m
commuters	35	Last	4h	24h	7d	30d	6m
consumers	238	Last	4h	24h	7d	30d	6m
dateObserved	2024-11-01T11:00:00.000Z	Last	4h	24h	7d	30d	6m
extraregionals	47	Last	4h	24h	7d	30d	6m

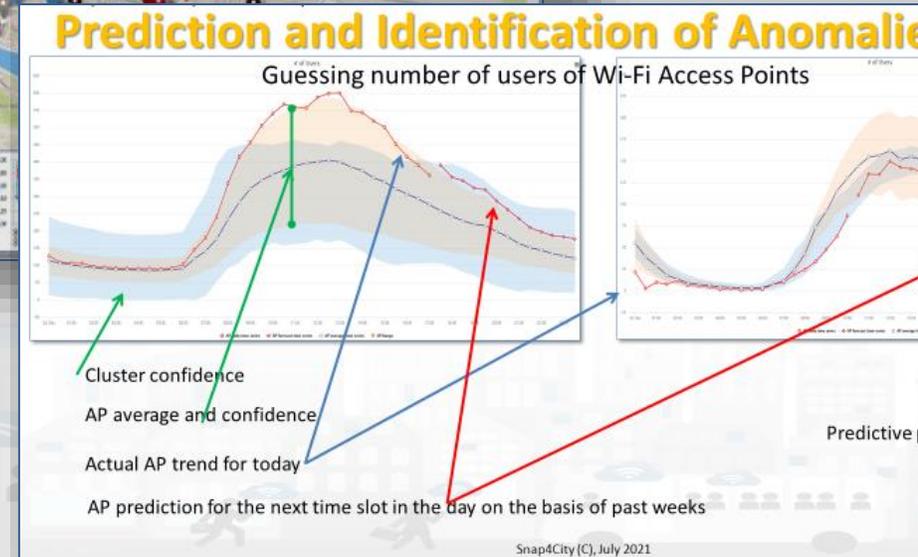
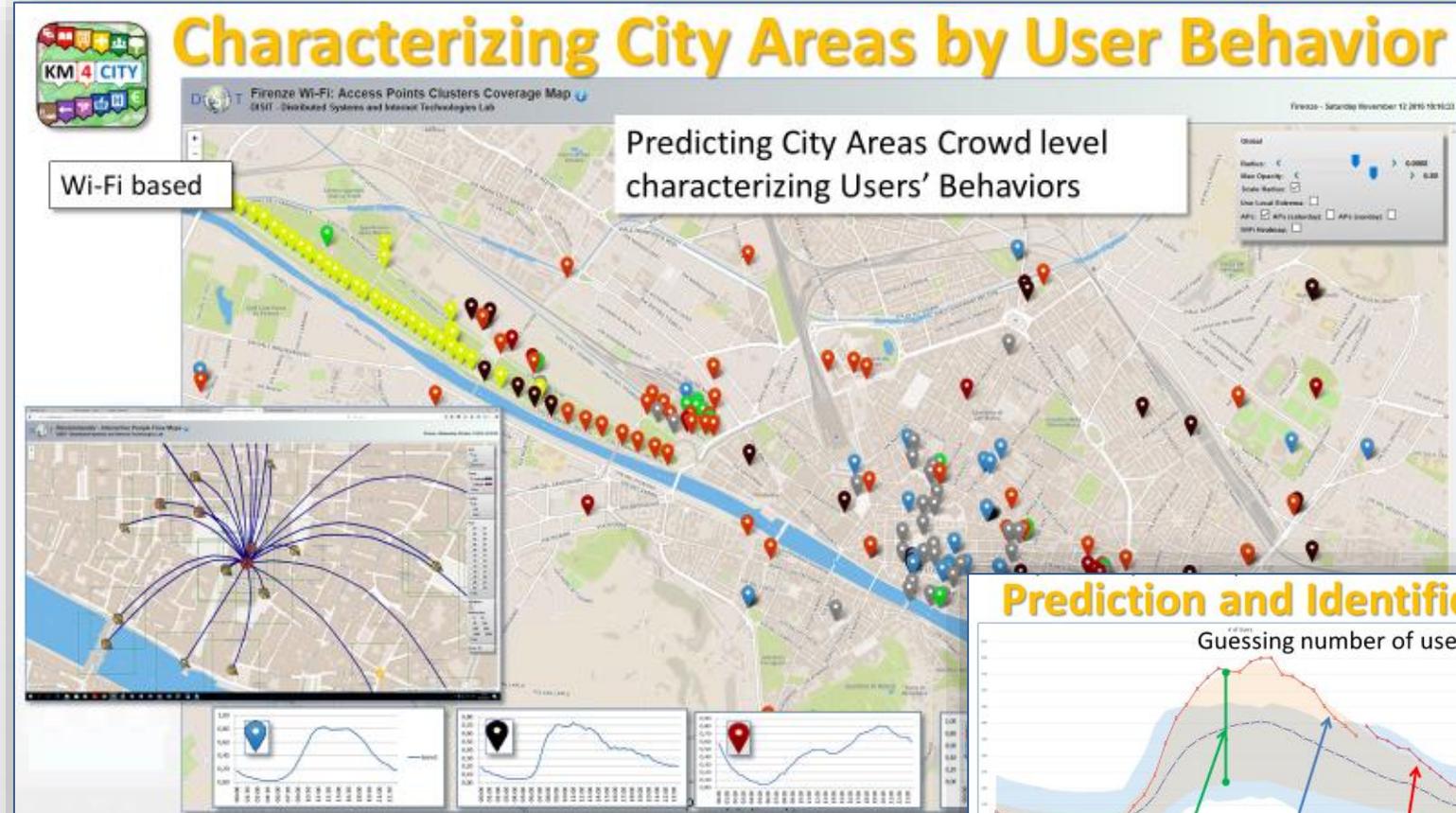
Selector

- ▶ Total People >
- ▶ Commuters >
- ▶ extra-regionals >
- ▶ consumers >
- ▶ Business >
- ▶ Italians >
- ▶ Foreigners >
- ▶ Age 18-30 >
- ▶ Age 41-50 >
- ▶ over 60 >

People monitoring, Wi-Fi PAX counters

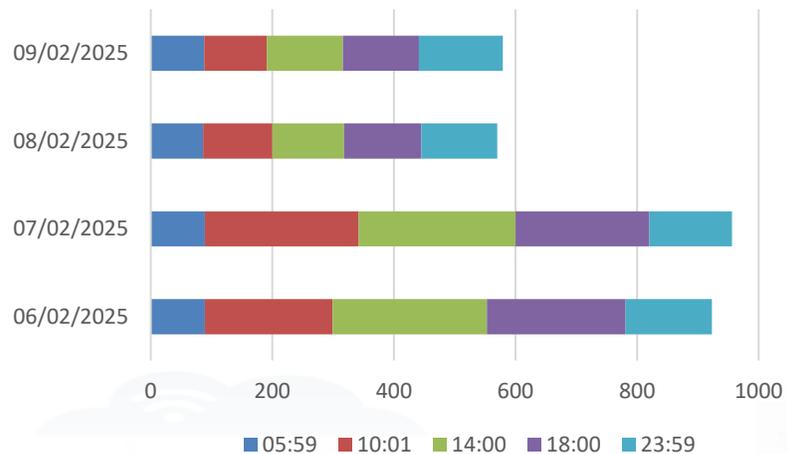


- **AI Prediction of people flows on the basis of Wi-Fi data**
- **Anomaly detection**
- **Classification of city areas**

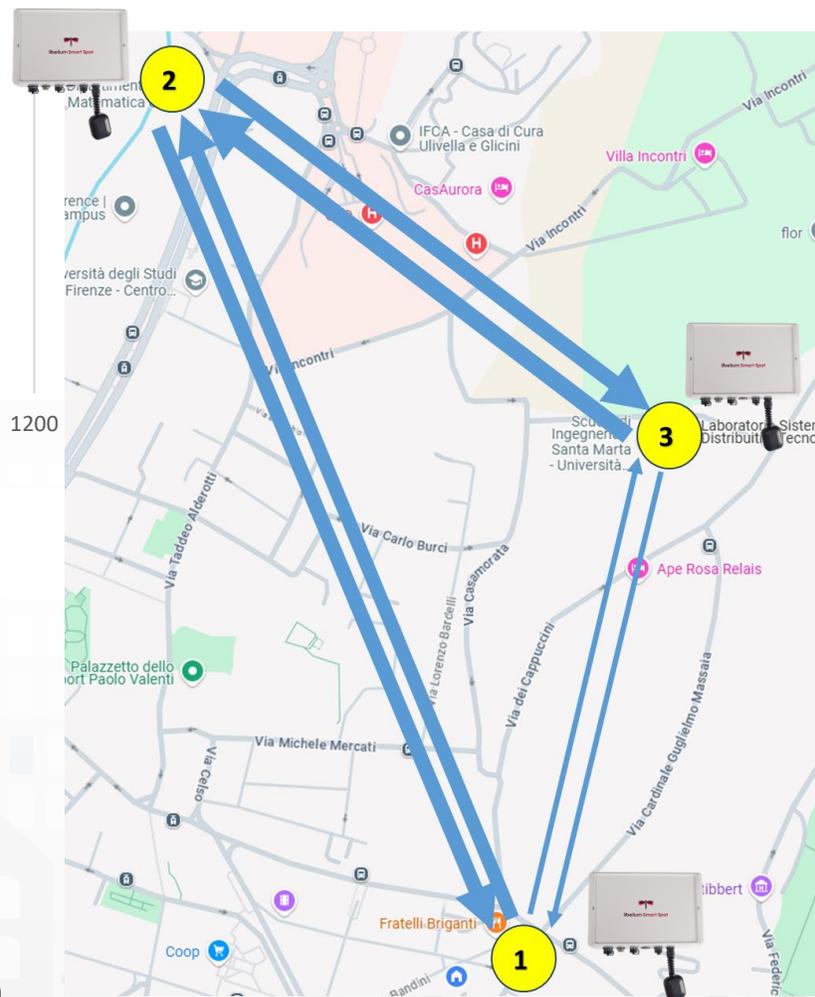
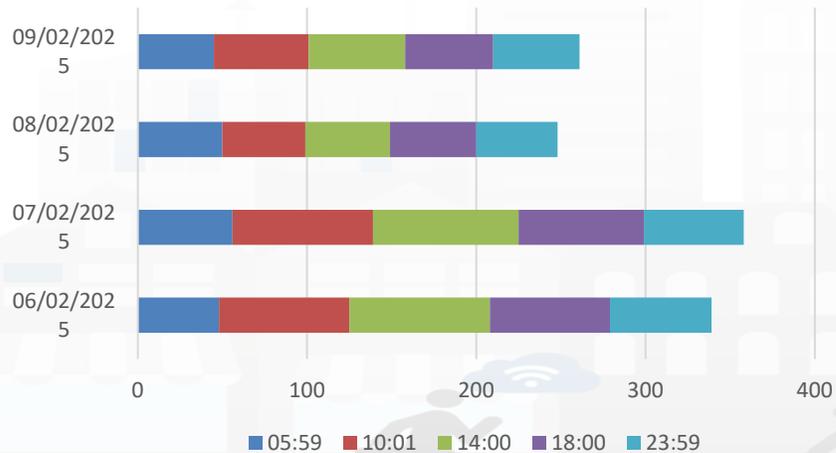


ODM PaxCounters

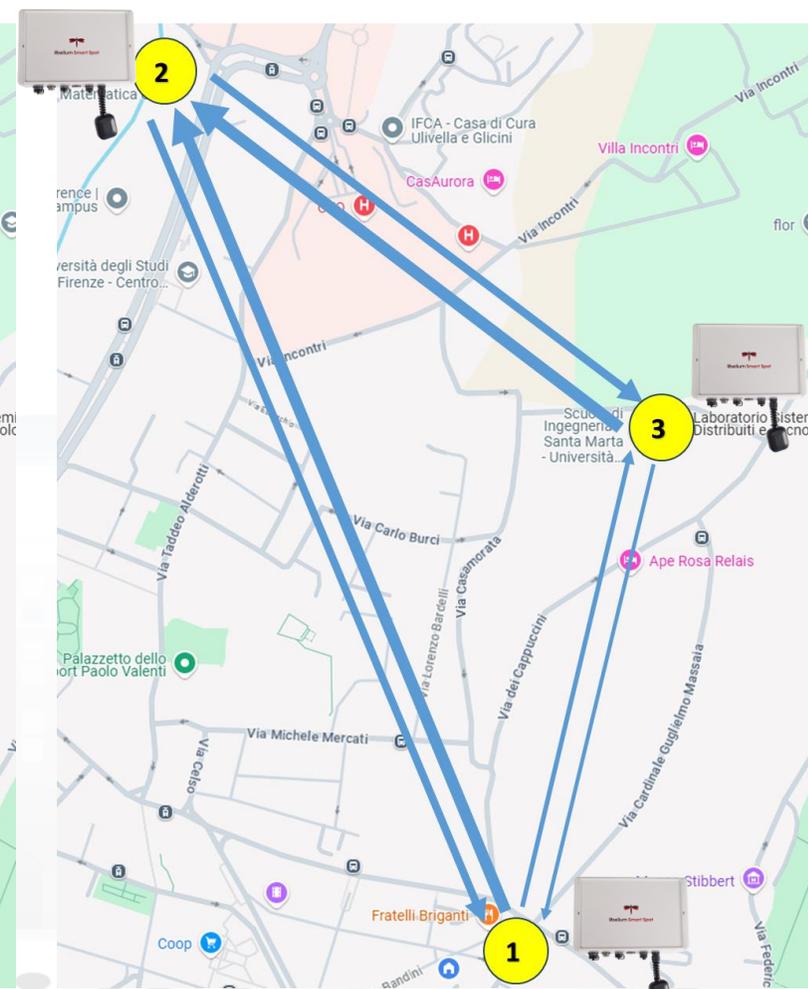
Total Visitors



at least 5' tracked Visitors



Flow Counts



OutFlow %

TOURISMO Florence - People Counting

Fri 29 Aug 17:14:01

Co-funded by the European Union

PAX Counting Sens

Hourly ODM

Daily ODM

FIRENZE-LIBELIUMPASSERA

VALUE NAME: FIRENZE-LIBELIUMPASSERA

Last update: 2025-08-29 17:00:34.591+02:00

Description	Value				
ALLdetections	265	Last	4h	24h	7d 30d
BLEdetections	12	Last	4h	24h	7d 30d
WIFIdetections	252	Last	4h	24h	7d 30d
dateObserved	2025-08-29T15:00:34.591Z	Last	4h	24h	7d 30d

Keep data on target widget(s) after popup close:

S. SPIRITO - ALL detections (Wi-Fi plus BT)

People counting weekly trend

People counting - Cumulative weekly trend values

Bar Series

Location	Value
SANTOSPIRITO	475
SANTAFELICITA	470
PITTI	326
SANTATRINITA	329
PASSERA	265

S. SPIRITO - ALL detections (Wi-Fi plus BT)

Main Dashboard

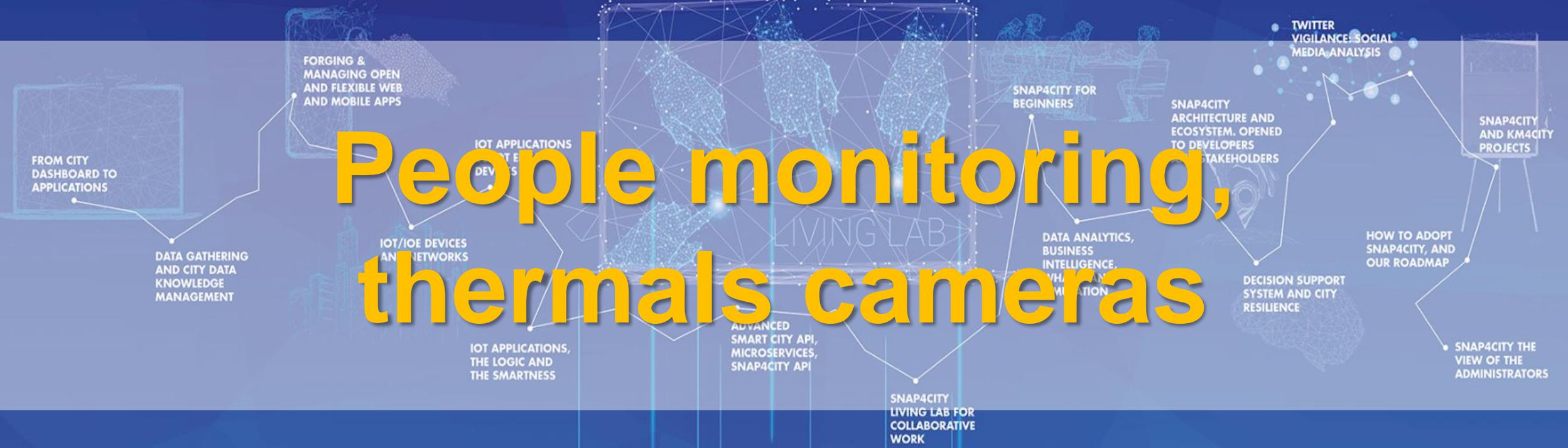
Mobility and Weather

Documentation

Privacy Policy
Cookies Policy
Terms and Conditions
Contact us

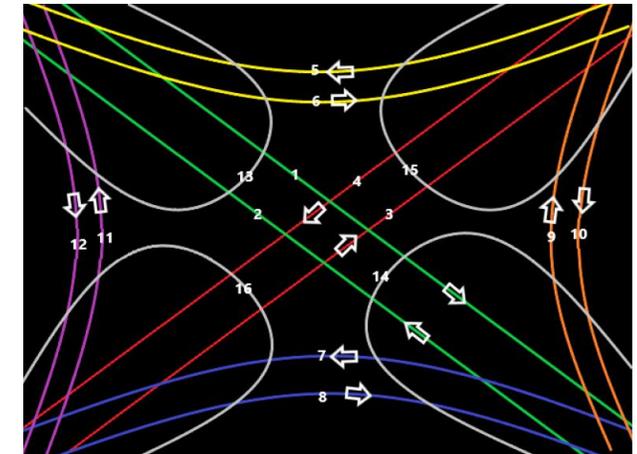
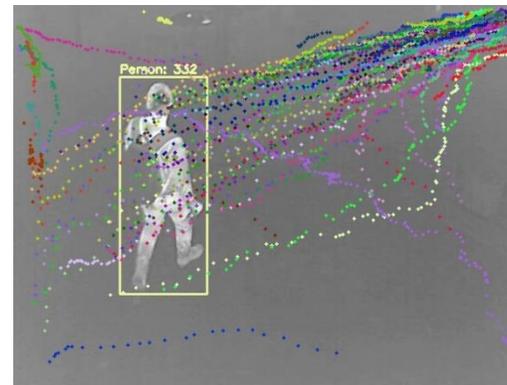


People monitoring, thermals cameras



User Behaviour: People Counting, Tracking, etc.

- **Behavior analysis in open or closed spaces**
 - HUB, metro, stations, production lines, parking lots, critical areas in cities,
 - shopping centers, retail, etc.
- **Thermal Cameras**
 - GDPR compliant
- **AI injection**
 - classification and counting
 - Identification of critical situations
 - Early warning
 - Integration with PAX counters, and with ODM data from operators
- **Real-time estimation**
 - Directly on the camera
 - High precision and reliability
 - Used by: Cuneo, Florence, Genoa, etc





SNAP4CITY Turismo: Dome Trajectory Analysis

Mon 13 Oct 23:11:10

Selector

Duomo Sensors

directions

Map

FIRENZE-TCPIAZZADUOMO5minutes - peopleCounted

Percentuale distribuzione traiettorie

Legend: AtoB, BtoA, BtoC, AtoC, CtoA, CtoB

Footer: Privacy Policy, Cookies Policy, Terms and Conditions, Contact us

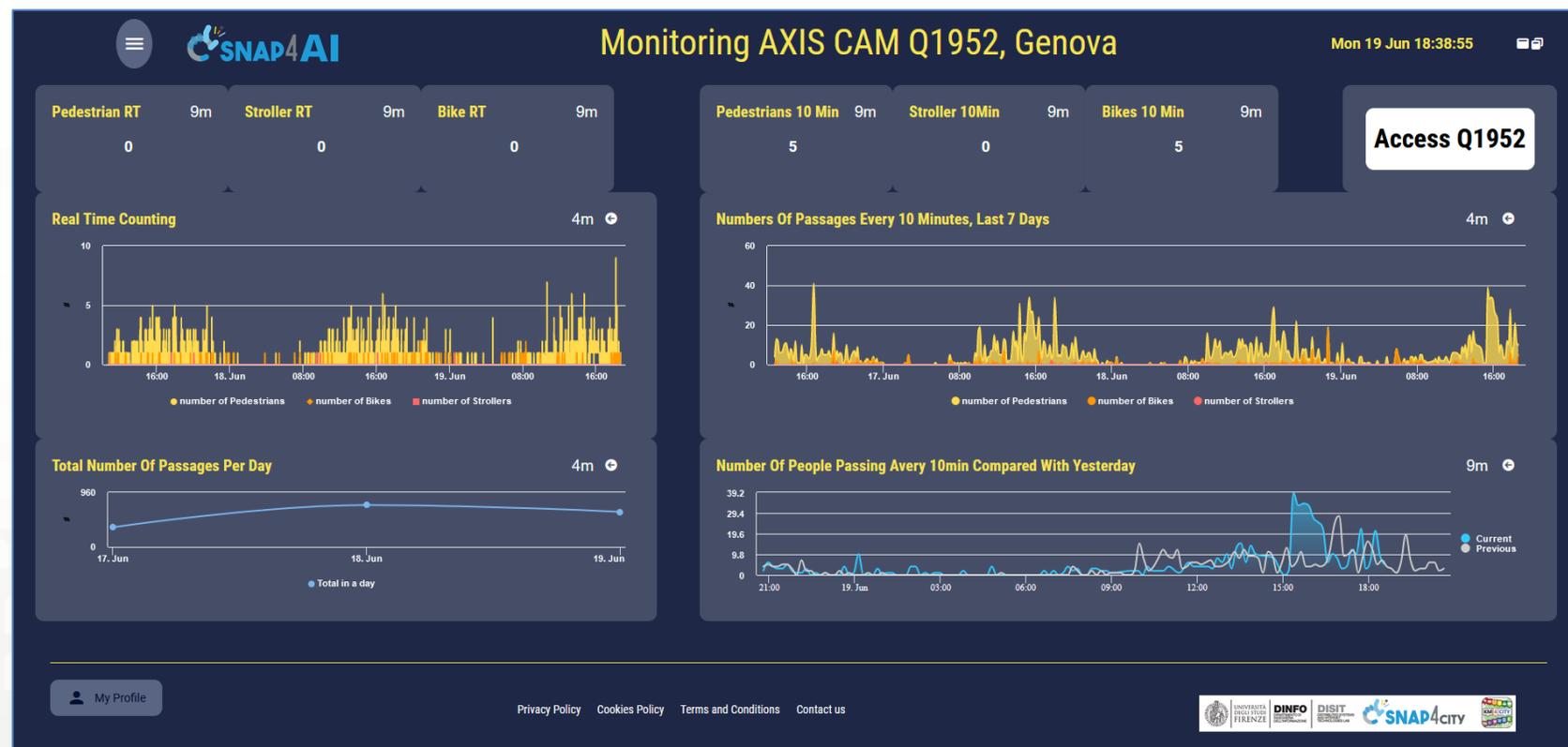
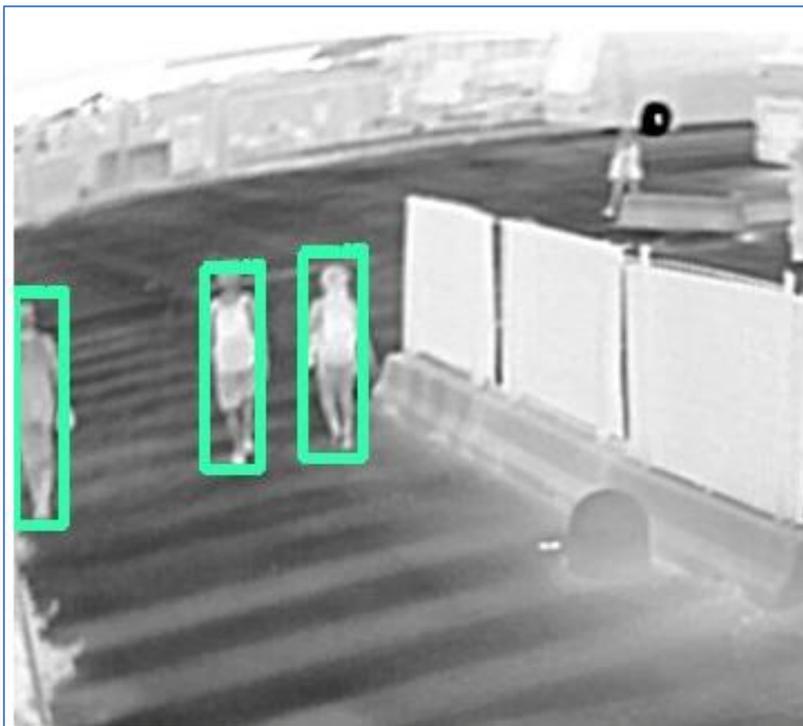
Logos: UNIVERSITA DEGLI STUDI FIRENZE, DINFO, DISIT, SNAP4CITY, KM0CITY





Monitoring Passages AXIS Q1952

- Genova: Ocean Race, 2023



11 SUSTAINABLE CITIES
AND COMMUNITIES



Counting People by Drones in Varna



Sun 30 Mar 16:13:03

TOURSIMO Varna 2

- openweathersVarna
- Sea conditions Varna
- Air pollution Varna
- Drone Data Varna

Selector - Map

DRONE_MARINE_GARDEN

VALUE NAME: DRONE_MARINE_GARDEN

DETAILS DESCRIPTION RT DATA

Last update: 2024-08-24 09:27:00.000+02:00

Description	Value	Buttons
averageTemperature	41	Last 4h 24h 7d 30d 6m 1y 2y 10y
averageTemperatureThermalCamera	32.9	Last 4h 24h 7d 30d 6m 1y 2y 10y
bicycleForRent	0	Last 4h 24h 7d 30d 6m 1y 2y 10y
birds	1	Last 4h 24h 7d 30d 6m 1y 2y 10y
cyclists	3	Last 4h 24h 7d 30d 6m 1y 2y 10y
dateObserved	2024-08-24T07:27:00.000Z	Last 4h 24h 7d 30d 6m 1y 2y 10y
distance	5	Last 4h 24h 7d 30d 6m 1y 2y 10y
emissivity	0.95	Last 4h 24h 7d 30d 6m 1y 2y 10y
fNumber	1.0	Last 4h 24h 7d 30d 6m 1y 2y 10y
focalLength	9.1	Last 4h 24h 7d 30d 6m 1y 2y 10y



Position:
drone_marine_garden

Date time:
2024-08-24 10:27

Type of image:
Thermal Camera

[View](#) [Reset](#)



Air Temperature

VARNA - Air Temperature - Weekly trend

13.1 °C



<https://www.snap4city.org/dashboardSmartCity/view/newTheme.php?iddashboard=NDUxOA==>

Participation and Engagement

- **City users:** residents, students, commuters, tourists, visitors, business visitors, etc.
- **Participation**
 - Collect complaints about city services
 - Multichannel: mobile Apps, open call numbers, web pages and blogs, social media, help desk, info points, white boxes in the city, telegrams, SMS, etc.
 - Data integration, usage of LLM, AI deep learning for sentiment analysis, text understanding, etc.
- **Engagement**
 - Involving city users to perform actions: take photo, provide a suggestion a rank, etc.
- **Commonalities:** data collection, workflow management, operators, etc.

Complains Analysis to Support Decision Making Processes

Mon 17 Mar 13:40:47

QRCode Creation TOURISMO

Infos

Name:

Form's url:

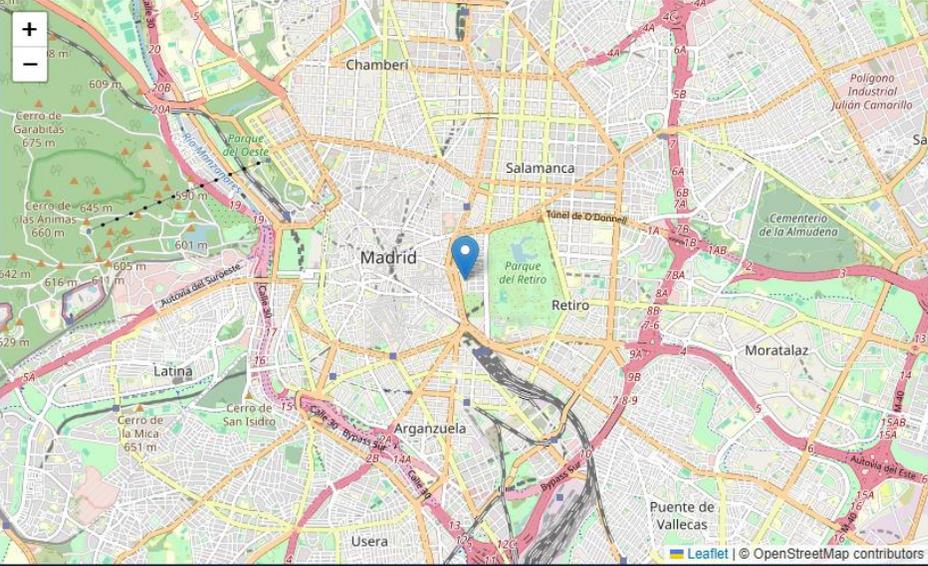
Form's edit url:

Form's stats url:

Form's excel url:

Position

Latitude: Longitude:



Leaflet | © OpenStreetMap contributors

QRCode



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Logged in as:
edoardo_tester

 Your Profile

Logout

SnapAssistant model:

Llama3.3 

New Chat

EdoChat1

EdoChat2

EdoChat3

EdoChat4

prova

chatNuova

chatTest1LLAMA

chatTest2LLAMA

testGianniLLAMA

testTastoInvioPreChanges

ChatTestPostPSWINVIO

<https://www.snap4city.org/1116>

SnapAdvisor

Current chat: debug0

Visualize references

Personal
Advisor LLM

 Come creo una dashboard?

 Per creare una dashboard, puoi utilizzare la piattaforma Snap4City. La dashboard si compone di un insieme di widget grafici che possono essere impostati separatamente assegnando una serie di parametri, come origine dati, dimensioni, colori, forma, font, allarmi, relazioni con altri, ecc. (SOURCE: Snap4 City per la creazione di Smart City Control Room, SCCR). Inoltre, la piattaforma offre la possibilità di creare vere e proprie applicazioni interattive, multipagina/multidashboard, e non semplici storie monopagina da scrollare. Puoi anche condividere la dashboard con altri utenti anche fuori dalla Smart City Control Room tramite canali autenticati e protetti in HTTPS, in accordo al GDPR (SOURCE: Snap4 City per la creazione di Smart City Control Room, SCCR). Per vedere alcuni esempi di dashboard, puoi visitare il sito <https://www.snap4city.org/dashboardSmartCity/view/index.php?iddashboard=MjU0Mg==> (SOURCE: Snap4 City 1st Overview v4 8 annot). Tuttavia, non ho trovato informazioni dettagliate sulla procedura di creazione di una dashboard. Se hai bisogno di ulteriore assistenza, ti consiglio di contattare direttamente il team di supporto di Snap4City. Non so dirti altro in merito.

Write a message...



Complains Analysis to Support Decision Making Processes

Standard data/form
creation
for reputation analysis:

- Initial Sentiment Analysis/NLP by analysing questionnaires collected from QR code distribution.

Summary of Findings (June–August 2025, 36 responses received - Golden Bay, Malta) produced by a Large Language Model (LLM) based on the responses obtained from questionnaire

Average Ratings (scale -2 to +2)

Overall experience: +0.67 → slightly positive but inconsistent (range -2 to +2)

Toilets: -0.83 → strongly negative, among the worst-rated aspects.

Showers: -0.31 → generally negative.

Bins distribution: -0.33 → slightly negative, with complaints about lack of bins.

Safety & lifeguard services: +0.55 → moderately positive.

Cleanliness: -0.52 → overall negative, many complaints about cigarette butts and plastics.

Natural conditions (dunes, seawater, etc.): -0.40 → negative, issues with seagrass, water quality.

Engaging via Mobile Apps

FROM CITY
DASHBOARD TO
APPLICATIONS

DATA GATHERING
AND CITY DATA
KNOWLEDGE
MANAGEMENT

ORGANIZING
IN
AND
XIBLE WEB
AND MOBILE APPS

IOT APPLICATIONS
VS IOT EDGE
DEVICES

SNAP4CITY FOR
BEGINNERS

SNAP4CITY
ARCHITECTURE AND
ECOSYSTEM. OPENED
TO DEVELOPERS
AND STAKEHOLDERS

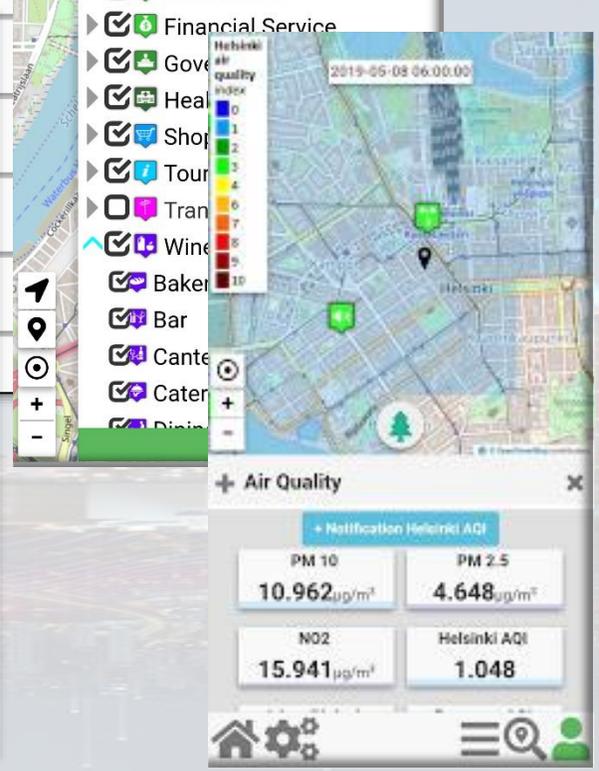
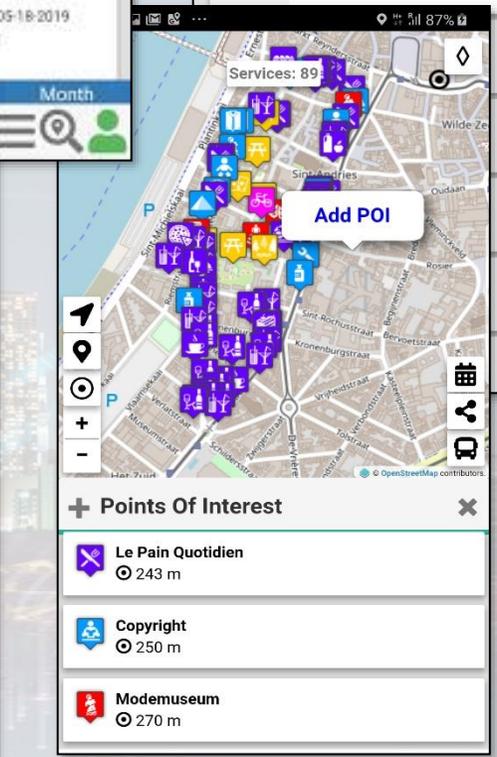
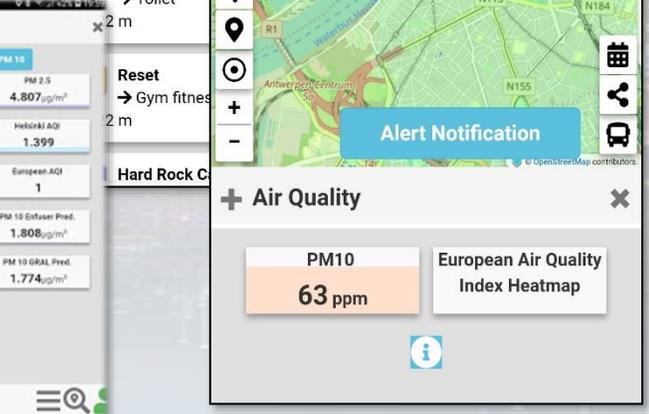
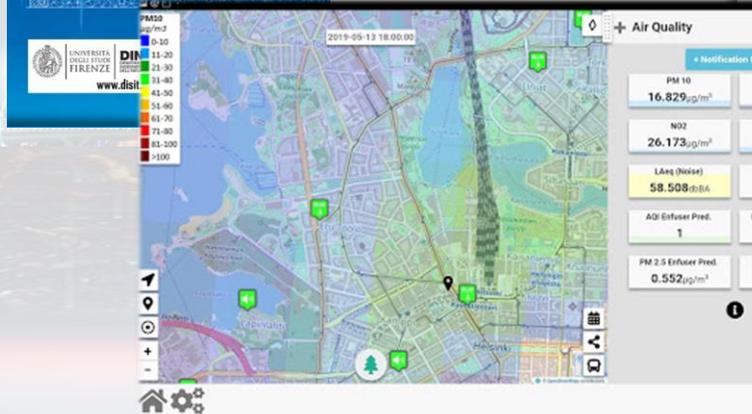
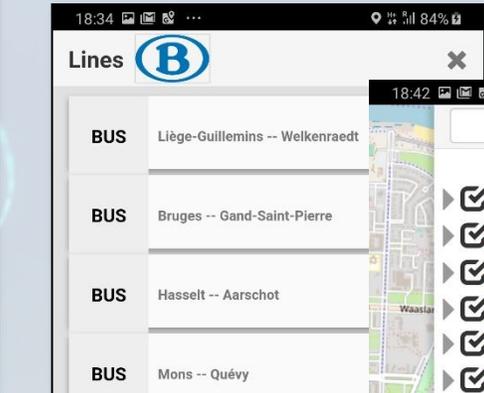
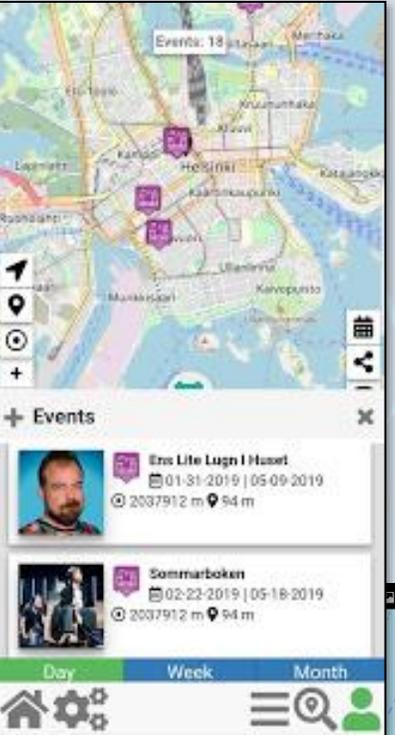
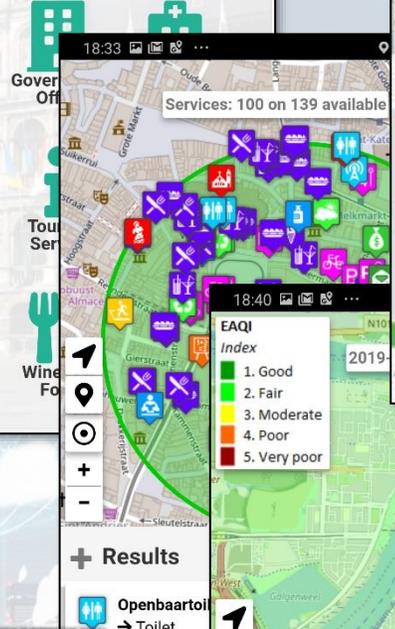
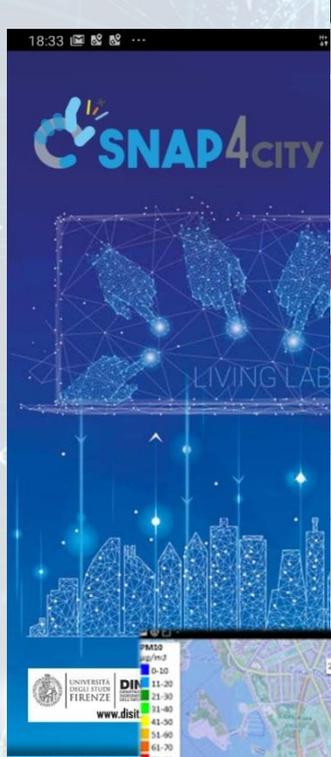
SNAP4CITY
AND KM4CITY
PROJECTS

HOW TO ADOPT
SNAP4CITY, AND
OUR ROADMAP

DECISION SUPPORT
SYSTEM AND CITY
RESILIENCE

SNAP4CITY THE
VIEW OF THE
ADMINISTRATORS







Citizen Engagement/Participation via Mobile Apps

- GPS Positions
- Selections on menus
- Views of POI
- Access to Dashboards
- searched information
- Routing
- Ranks, votes
- Comments
- Images
- Subscriptions to notifications
-

Produced information

- Viewed ?
- Accepted ?
- Performed ?
- ...

Users



Derived information

- Trajectories
- Hot Places by click and by move
- Origin destination matrices
- Most interested topics
- Most interested POI
- Delegation and relationships
- Accesses to Dashboards
- **Cumulated Scores from Actions**
- Requested information
- Routing performed
-

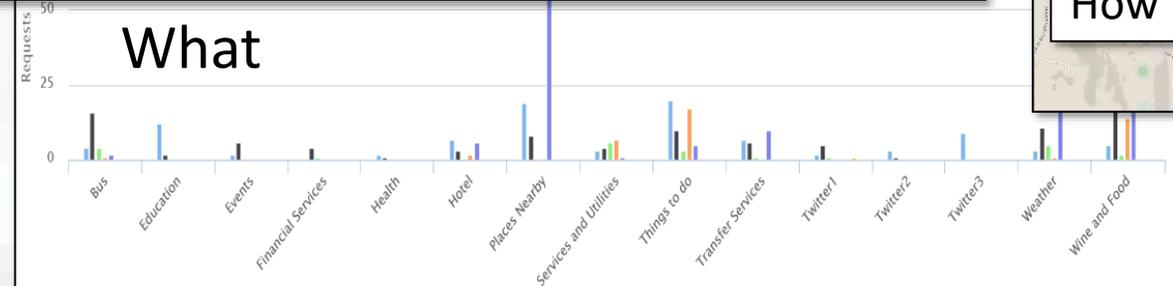
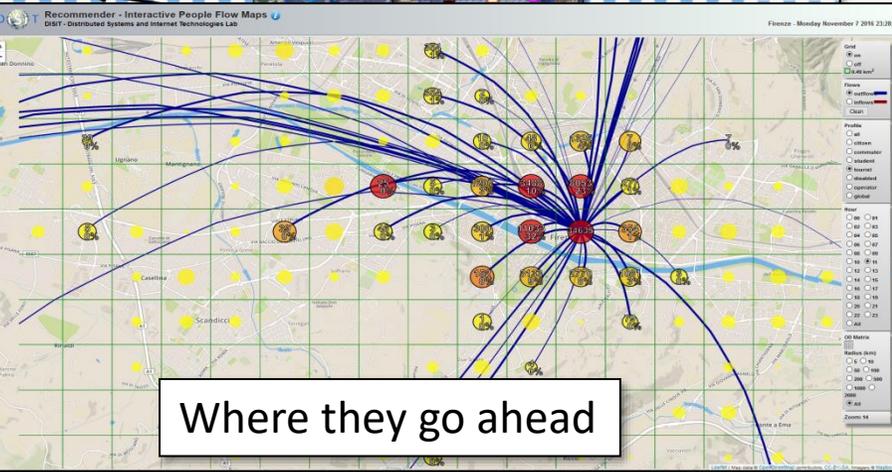
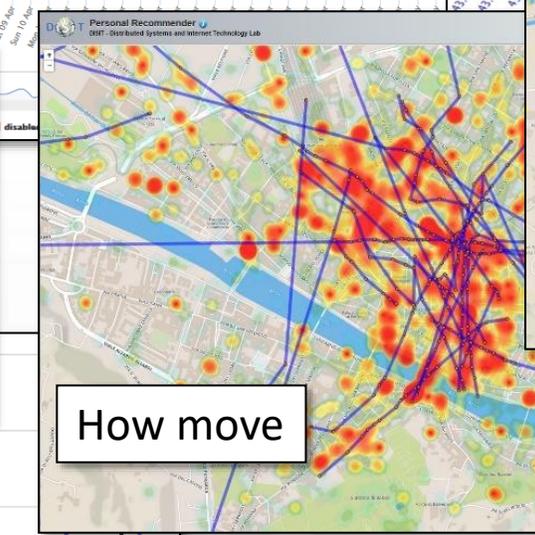
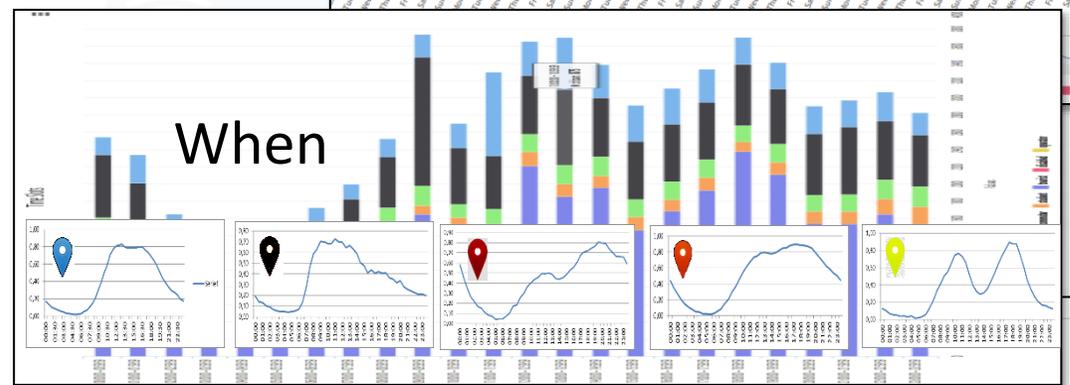
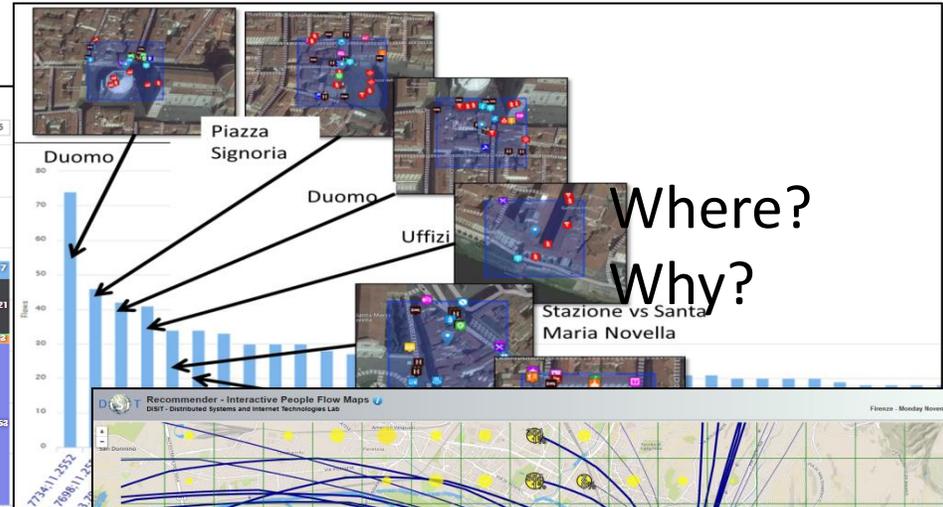
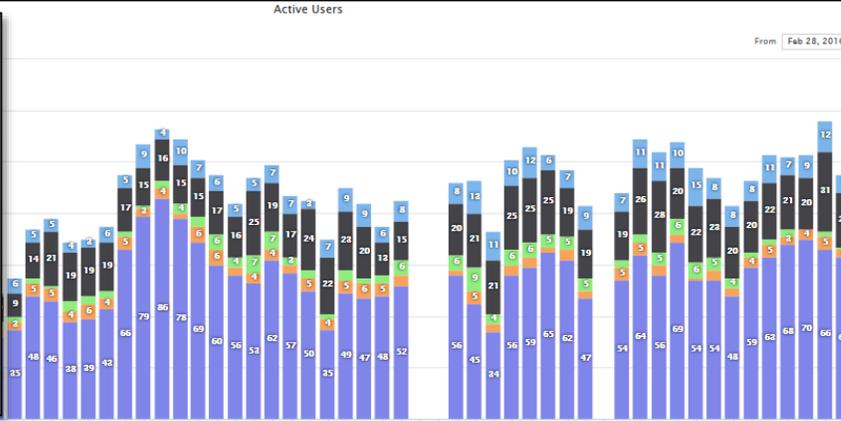
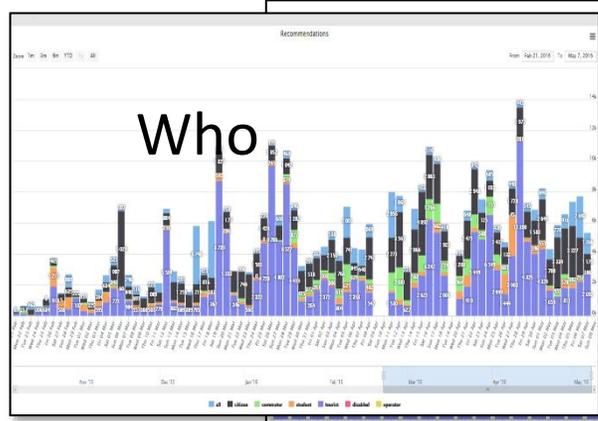


Produced information

- Suggestions
- Engagements
- Notifications
- ...

System

User Behavior Analyser for Collective Profiling



To propose suggestions and Engage city user we need to know how they are moving



By Car



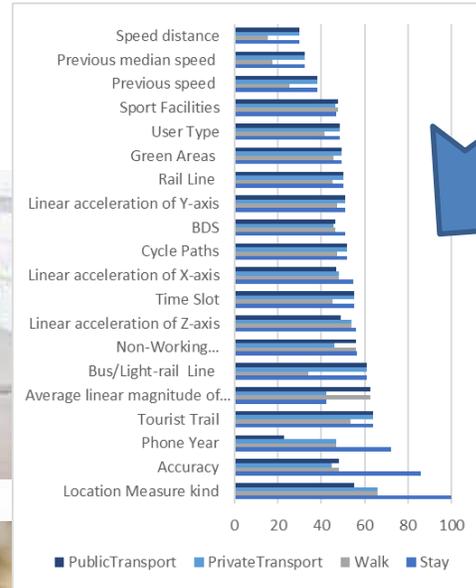
Walk



By BUS



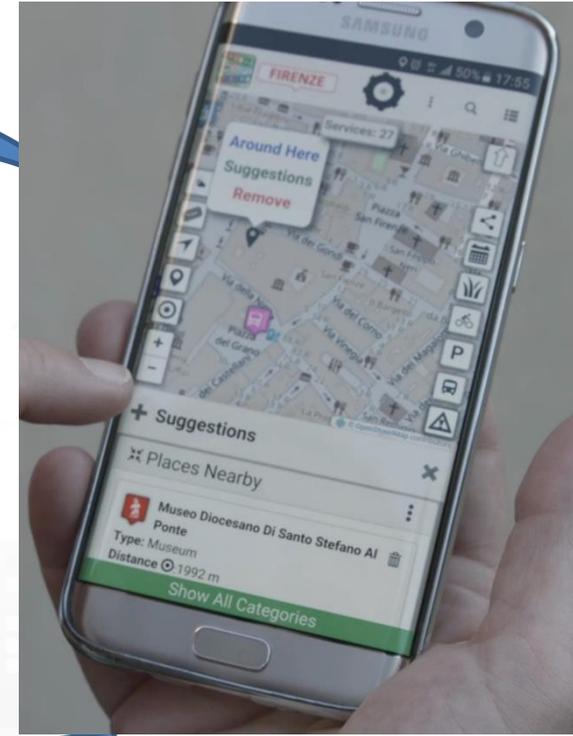
Run



User behavior
recognition

Artificial Intelligence
Classification

Suggestions



Indoor People Analysis and Suggestions for Smart Retail

feedback



- **Feedback Project:**

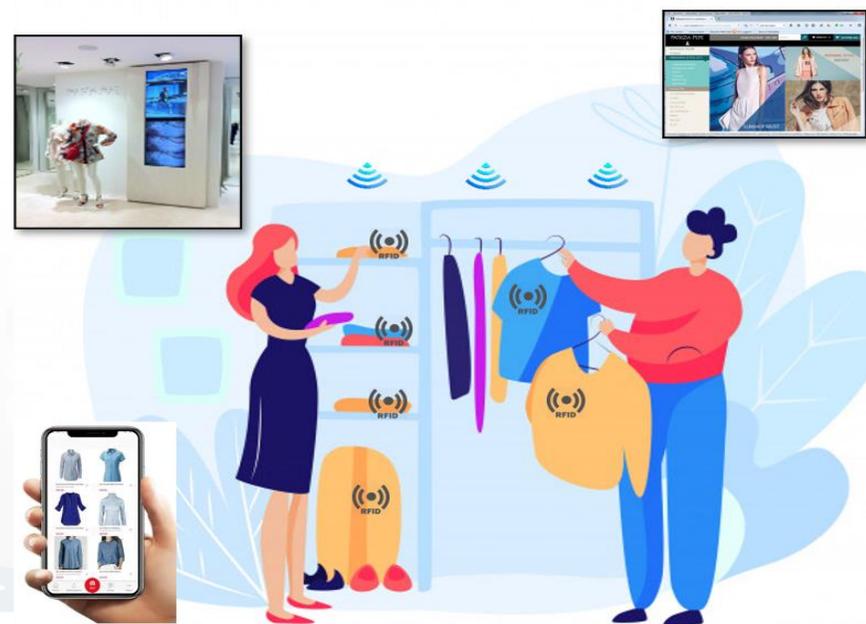
- Flexible Advanced Engagement Exploiting User Profiles and Product/Production Knowledge
- VAR, PatriziaPepe (Tessilform), DISIT, SICE
- Keywords: retail, GDO, ...

- **Goals and drivers:**

- adaptive user engagement, customer experience
- Advanced user profiling, user behaviour analysis
- IOT and instrumentation
- Predictive models for engagement
- Integrated in city customer experience

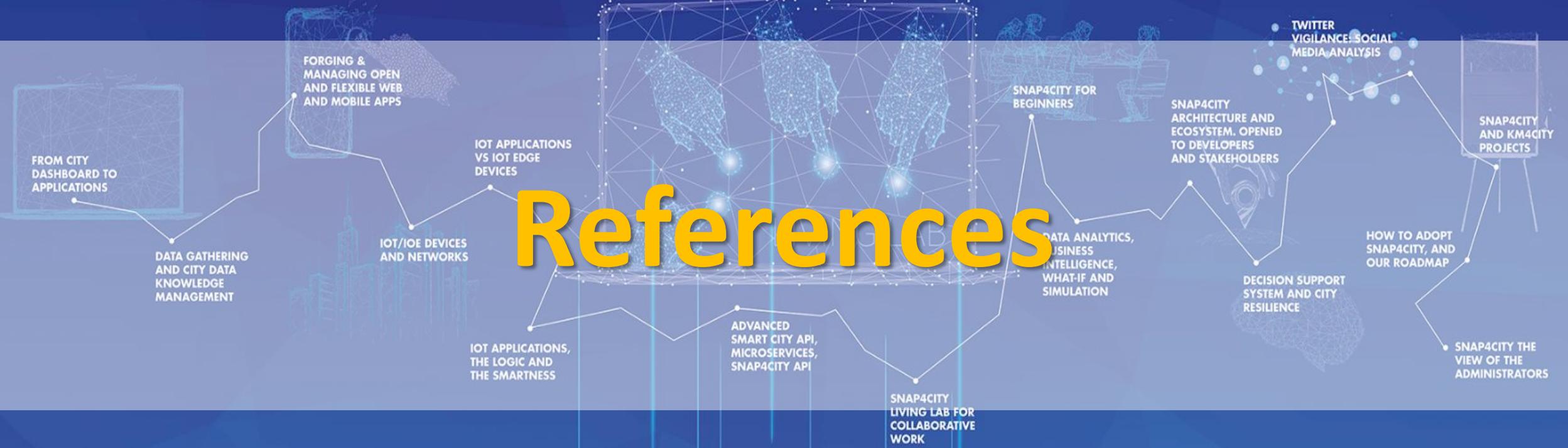
- **Aiming to solve current State of the Art issues:**

- Cold start problems in generating recommendations for new users, also addressing seasonality of products and items
- GDPR compliance



feedback

References



booklets



- Smart City



https://www.snap4city.org/download/video/DPL_SNAP4CITY.pdf

- Industry



https://www.snap4city.org/download/video/DPL_SNAP4INDUSTRY.pdf

- Artificial Intelligence



https://www.snap4city.org/download/video/DPL_SNAP4SOLU.pdf

Interreg
Euro-MED



Co-funded by
the European Union

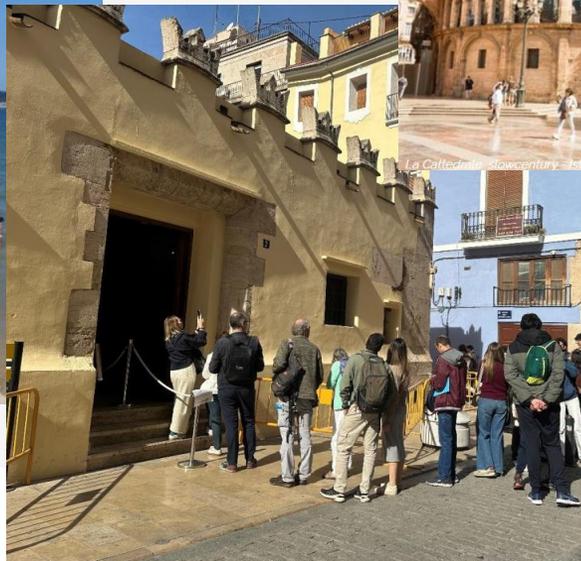
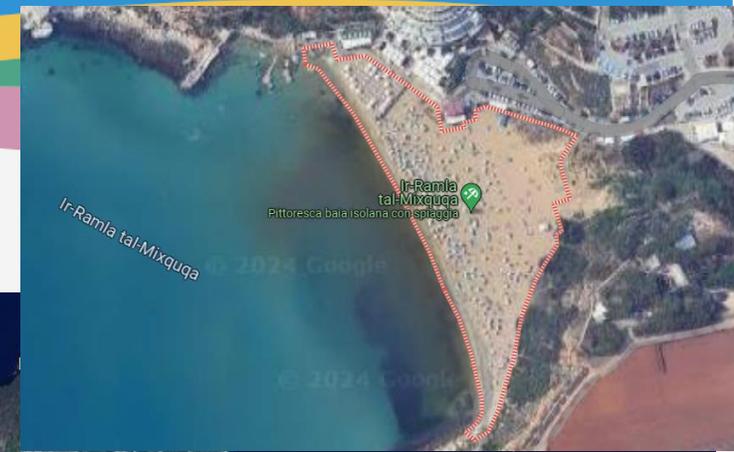
TOURISMO EURO MED

TOURism Innovative and Sustainable Management of fLOws



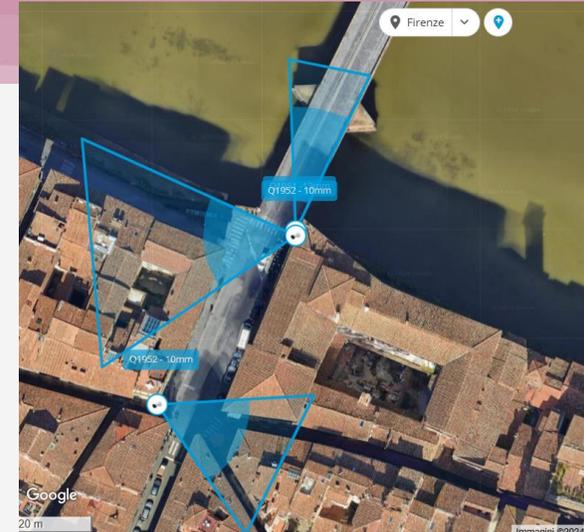
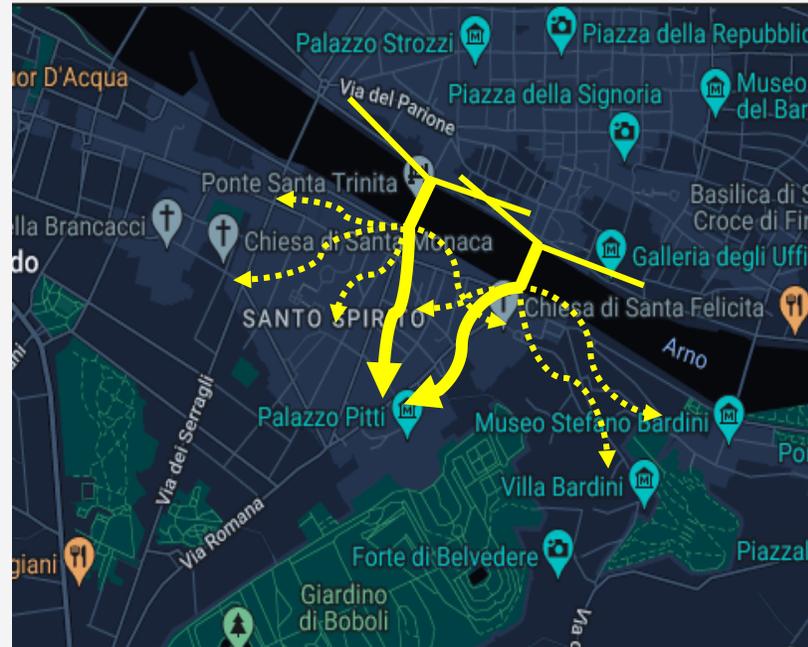
• Pilots of Snap4City on:

- Greece - READ S.A.: Rodi
- Italy – FRI, UNIFI: Firenze
- Spain – FV, FSMLR: Valencia
- Cyprus – ANELEM: Limassol
- Bulgaria – VEDA: Varna
- Croatia – RERA SD: Splitsko-dalmatinska županija
- Malta – MRDDDF: La Valletta





Florence (Italy) – Scenario: City Centre



Target:

Anticipate and mitigate negative or unexpected unknown events, predict flows and virtuously orient them

Equipment:

- 2 Thermal cameras
- 3 Pax counters: sniffer
- counting devices



TOURISMO Florence - People Counting

Fri 29 Aug 17:14:01

PAX Counting Sens

Hourly ODM

Daily ODM

FIRENZE-LIBELIUMPASSERA

VALUE NAME: FIRENZE-LIBELIUMPASSERA

Last update: 2025-08-29 17:00:34.591+02:00

MAPS
DETAILS
DESCRIPTION
RT DATA

Description	Value				
ALLdetections	265	Last	4h	24h	7d 30d
BLEdetections	12	Last	4h	24h	7d 30d
WIFIdetections	252	Last	4h	24h	7d 30d
dateObserved	2025-08-29T15:00:34.591Z	Last	4h	24h	7d 30d

Keep data on target widget(s) after popup close:

ODM

Origin-Destination Map

Controls:

Show all polygons: ON

Time period: week

Precision: pol

Flow: inflow

Max Opacity:

< Prev 2025-08-29 12:00:00

week

Hover over a zone

S. SPIRITO - ALL detections (Wi-Fi plus BT)

People counting weekly trend

People counting - Cumulative weekly trend values

Main Dashboard

Mobility and Weather

Documentation

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Tourismo: Dome Trajectory Analysis

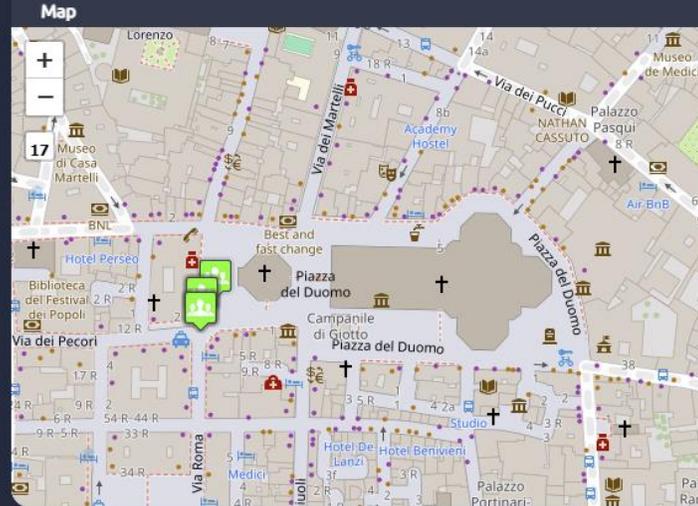
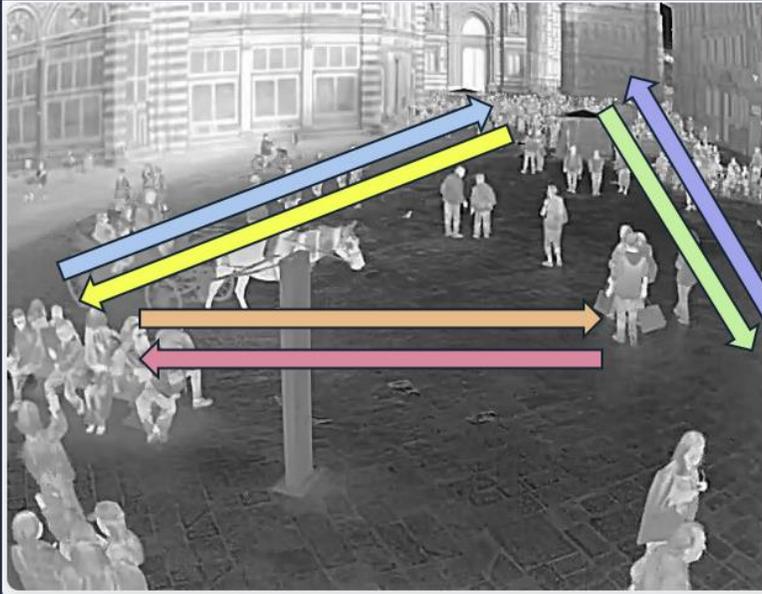
Fri 10 Oct 21:48:22

Selector



Duomo Sensors

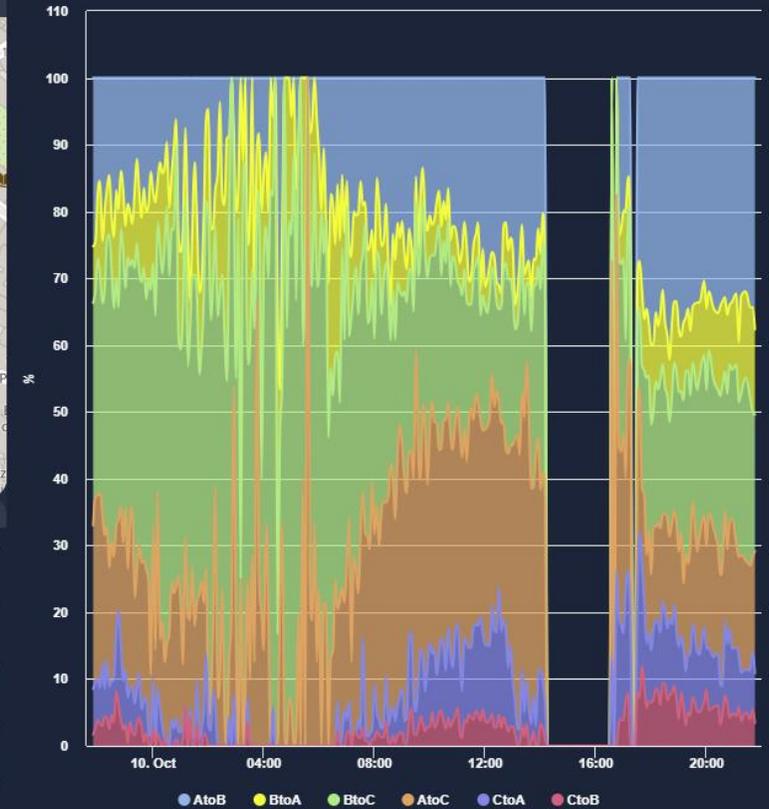
directions



FIRENZE-TCPIAZZADUOMO5minutes - peopleCounted



Percentuale distribuzione traiettorie





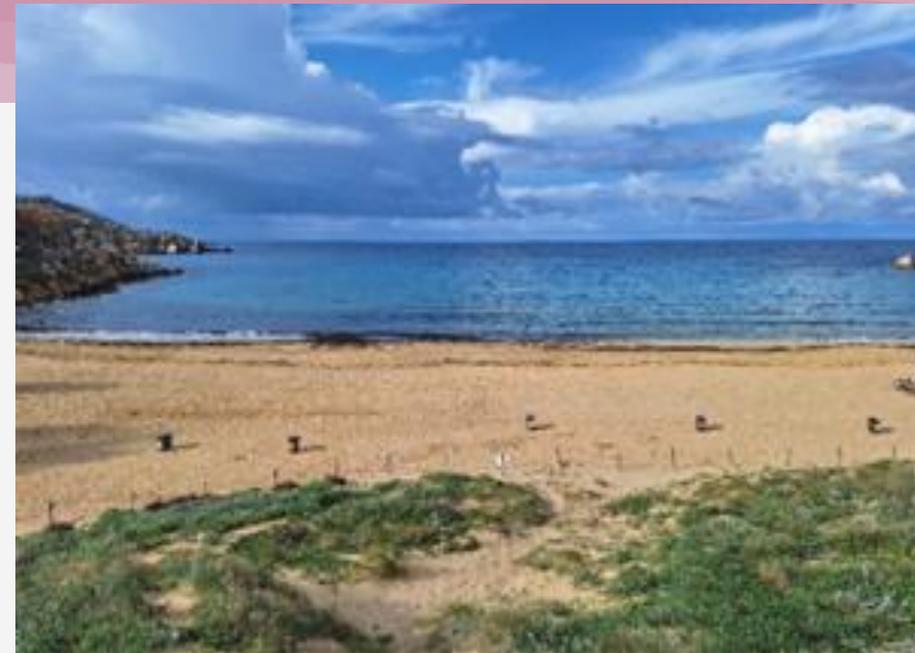
Malta – Scenario: Golden Bay



Target: Visitor behaviour analysis at the Golden Bay, with the intention of proposing a carrying capacity limit during peak seasons for conservation policy recommendations.

Equipment:

- 2 Thermal Cameras ●
- 4 Pax counters ●
- 1 Traffic counter ●





TOURISMO Malta - People Counting

Fri 29 Aug 17:15:12

TOURISMO **Interreg Euro-MED** Co-funded by the European Union

LibeliumCrowdFlowM

hourly_OD

daily_OD

Daily visitors Holding Time Trend

Time Interval	Count
15mto1h	774
1to2h	52
2to4h	46
4to8h	34
8to12h	6

ODM Origin-Destination Map

Controls:

- Show all polygons: ON
- Time period: week
- Precision: pol
- Flow: inflow
- Max Opacity: 0.6

2025-08-29 14:00:00

week

Hover over a zone

LIBELIUM_NURSERY - ALL detections weekly trend

People counting weekly trend

People counting - Cumulative weekly trend values

Main Dashboard

Malta Mixquqa & Majjistral data

Live Stream Mixquqa Beach

Documentation

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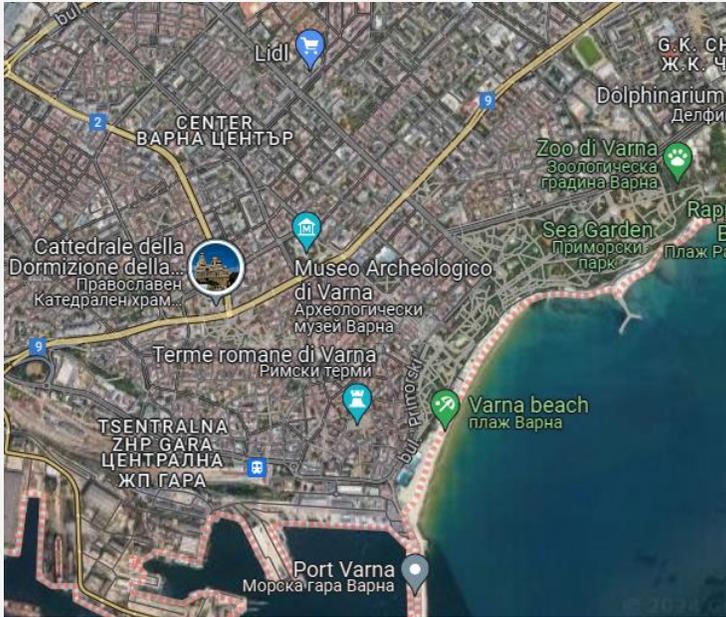


Varna (Bulgaria) – Scenario: City Centre





Varna (Bulgaria) – Scenario: City Centre



Target: Data collection and processing of the tourists' flows in key locations of the city of Varna to analyse crowd density and queue formations

Equipment: Drones: people flows images during the day





TOURISMO Varna

Fri 29 Aug 17:11:32

TOURISMO | **Interreg Euro-MED** | Co-funded by the European Union

- Open Weather
- Sea Condition
- Air Pollution
- Drone Data

DAY	UV Index	Ozone Column
TODAY	12.4	287.6
2025-06-10T06:00:00.000Z	11.8	298.8
2025-06-11T06:00:00.000Z	12.2	291.7
2025-06-12T06:00:00.000Z	11.8	297.4
2025-06-13T06:00:00.000Z	11.7	299.4
2025-06-14T06:00:00.000Z	12.3	290.1

VARNA
Air Temperature: 29.1 °C

VARNA - Air Temperature - Weekly trend

Drone Data

VALUE NAME: DRONE_MARINE_GARDEN

DETAILS DESCRIPTION RT DATA

Last update: 2025-06-14 20:08:00.000+02:00

Description	Value
averageTemperature	27.4
averageTemperatureThermalCamera	24.4
bicycleForRent	1
birds	0
cyclists	6
dateObserved	2025-06-14T18:08:00.000Z
distance	5
emissivity	0.95
fNumber	1.0
focalLength	12

Documentation | Varna Economic Development Agency

Drone Picture

Position: drone_marine_garden

Date time: 2025-06-09 13:51

Type of image: Thermal Camera

View Reset





Valencia (Spain) – Scenario: Valencia Port





Valencia (Spain) – Scenario: Valencia Port



Target:

Anticipate and develop methods to analyse the situation regarding the flow of cruise tourists, identify trends, and manage the tourist flows to prevent future overcrowding.

Equipment:

- 2 Thermal cameras ●
- 3 Pax counters ●





Valencia (Spain) – Scenario: Historic City Centre





Valencia (Spain) – Scenario: Historic City Centre



Target:

Monitor the impact of tourism on the architectural heritage of Valencia's historic centre: real-time occupancy in La Lonja and in the Museum of the City (Palacio del Marqués de Campo)



Equipment:

Indoor pax counters: Entrance and exit sensors in the buildings



TOURISMO Valencia



TOURISMO



Co-funded by the European Union



parkingValencia



Open Weather



Sea Conditions



Air Pollution



UV Index Forecast



Indoor People Counting



Indoor Env. CO2 Noise



Indoor Env.



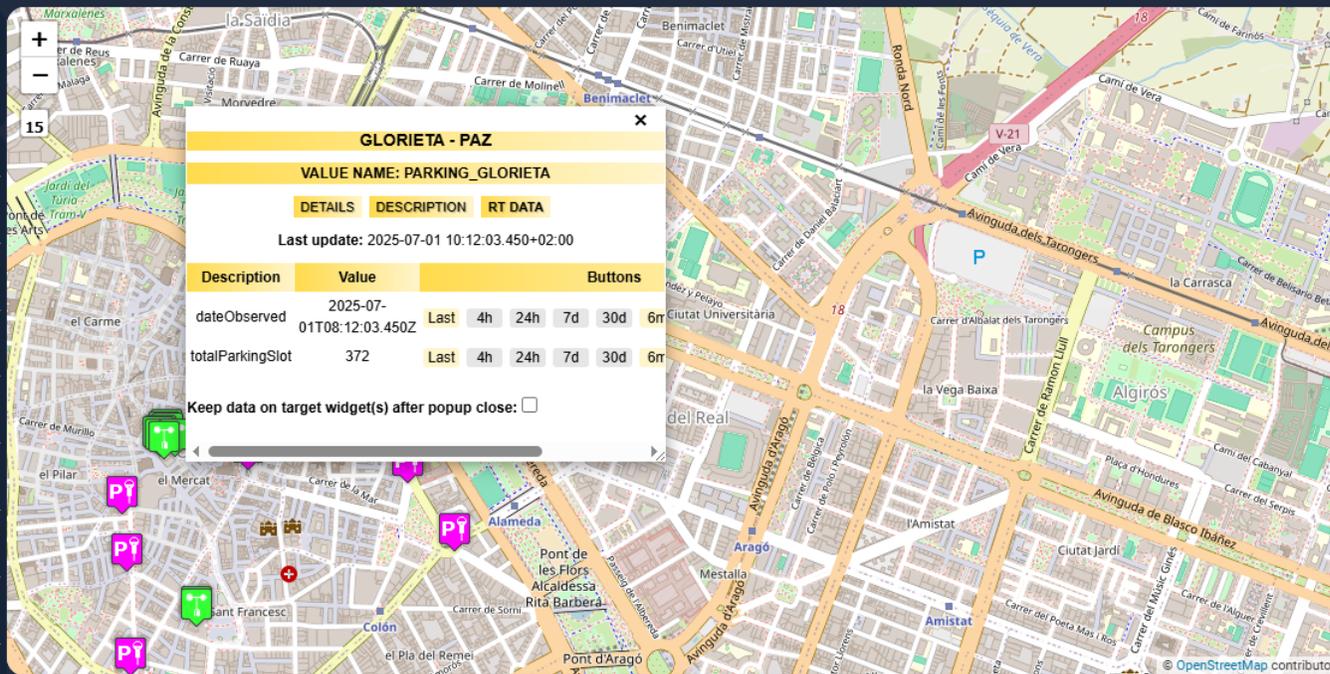
Indoor CO2



Indoor Noise



Outdoor People Counting



VALENCIA

DAY	UV Index	Color Column
TODAY	10.7	267.8
2025-06-06T08:00:00.000Z	10.9	263.8
2025-06-07T08:00:00.000Z	10.6	268.2
2025-06-08T08:00:00.000Z	10.8	264.6
2025-06-09T08:00:00.000Z	11.1	259.8
2025-06-10T08:00:00.000Z	10.4	270.9

1 2 3 4 5 6 7 8 9 10

LOW MODERATE HIGH EXTREME

La Lonja

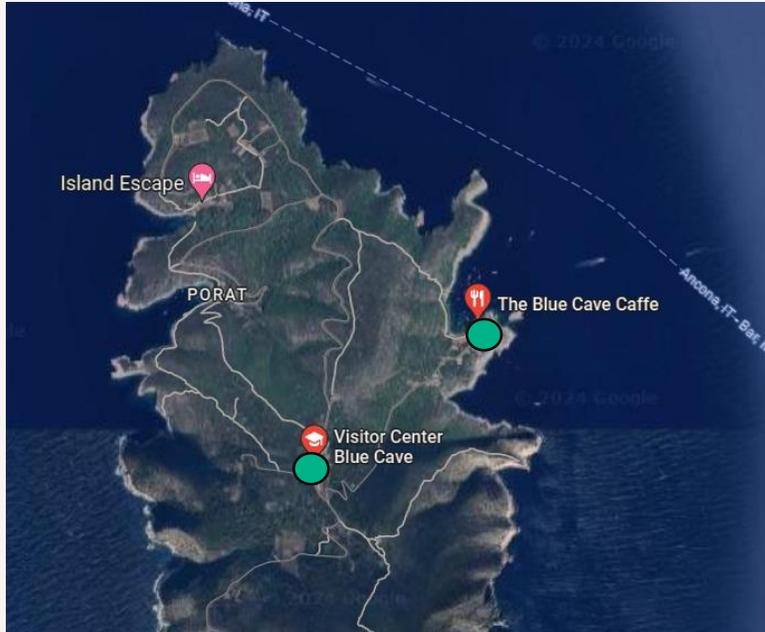
Museum

Documentation





Croatia – Scenario: Island of Biševo



Target: Achieve sustainable tourism on the islands of Biševo and Komiža by covering the flow of guests entering the famous ‘Blue cave’ on Biševo island.

Equipment:

2 Pax counters:
sniffer counting
devices ●





Fri 29 Aug 17:16:21





MAIN

TOURISMO Bisvevo


TOURISMO



Interreg
Euro-MED



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the European Union

- ▲ Open Weathers Bisvevo >
- ▶ Sea condition Bisvevo >
- ▶ Air pollution Bisvevo >
- ▶ UV Index forecasts >

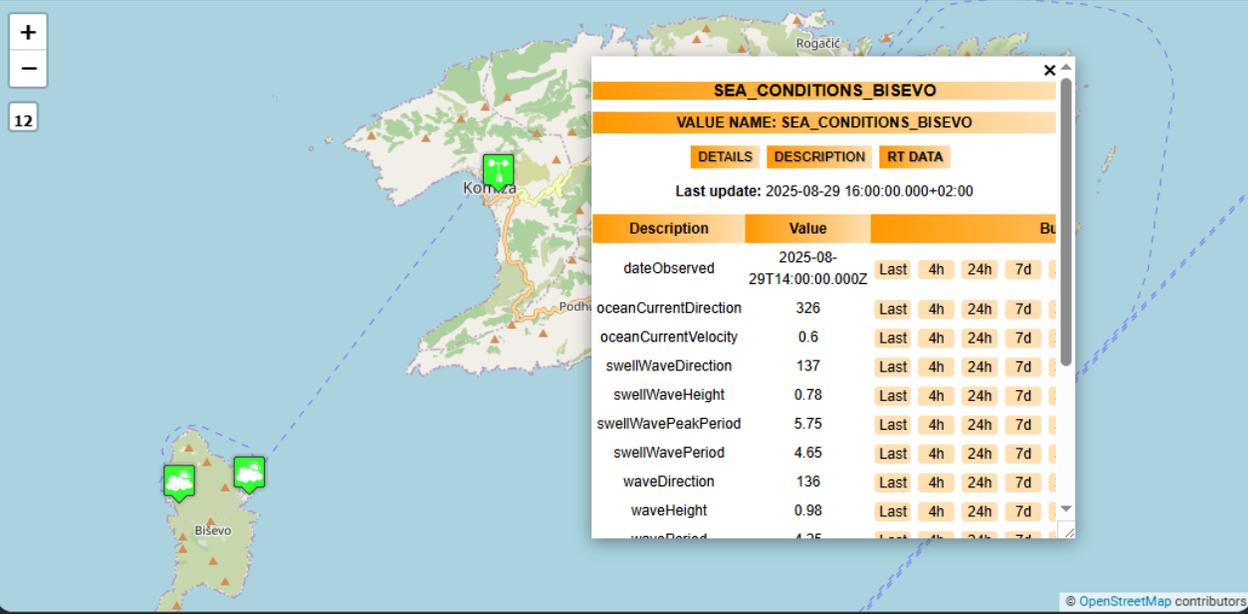
People Counting

Documentation

Selector - Map

+
-

12



SEA_CONDITIONS_BISEVO

VALUE NAME: SEA_CONDITIONS_BISEVO

DETAILS
DESCRIPTION
RT DATA

Last update: 2025-08-29 16:00:00.000+02:00

Description	Value	RT DATA
dateObserved	2025-08-29T14:00:00.000Z	Last 4h 24h 7d
oceanCurrentDirection	326	Last 4h 24h 7d
oceanCurrentVelocity	0.6	Last 4h 24h 7d
swellWaveDirection	137	Last 4h 24h 7d
swellWaveHeight	0.78	Last 4h 24h 7d
swellWavePeakPeriod	5.75	Last 4h 24h 7d
swellWavePeriod	4.65	Last 4h 24h 7d
waveDirection	136	Last 4h 24h 7d
waveHeight	0.98	Last 4h 24h 7d
wavePeriod	4.25	Last 4h 24h 7d



BISEVO

DAY	UV Index	Ozone Column
TODAY	11.9	286.8
2025-08-10T08:00:00.000Z	12.1	283.3
2025-08-11T08:00:00.000Z	11.6	292.4
2025-08-12T08:00:00.000Z	12.6	274.9
2025-08-13T08:00:00.000Z	12.8	272.2
2025-08-14T08:00:00.000Z	12.1	283.2

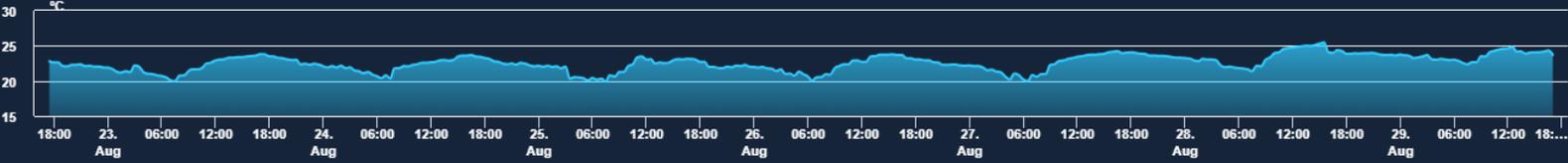
1
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11

LOW
MODERATE
HIGH
EXTREME

Air Temperature

23.7 °C

BISEVO - Air Temperature - Weekly trend



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Rhodes (Greece) – Scenario: Medieval city





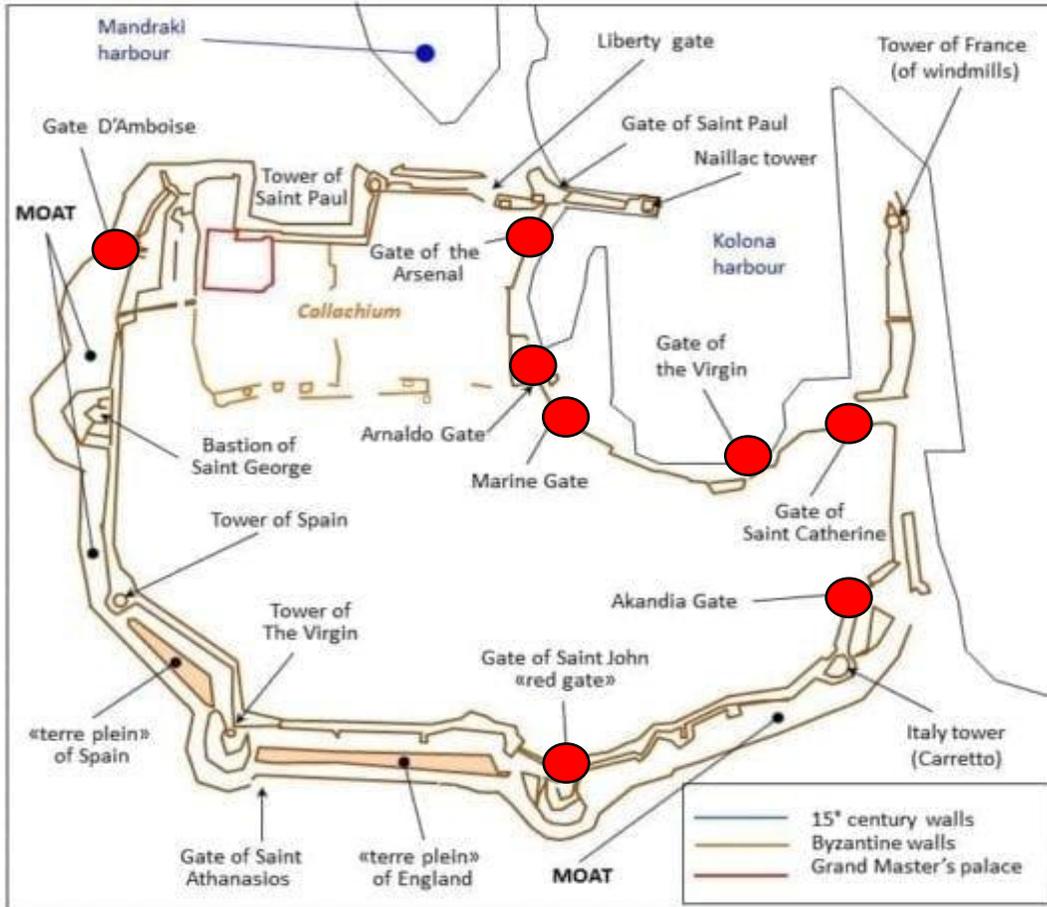
Rhodes (Greece) – Scenario: Medieval city

Target:

Medieval City's carrying capacity by comparing the data from higher and lower tourist seasons

Equipment:

- 8 Thermal cameras, one for each gate of Medieval City





TOURISMO Rhodes

Fri 29 Aug 17:18:11



TOURISMO

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Open Weather



Sea condition



Air Pollution



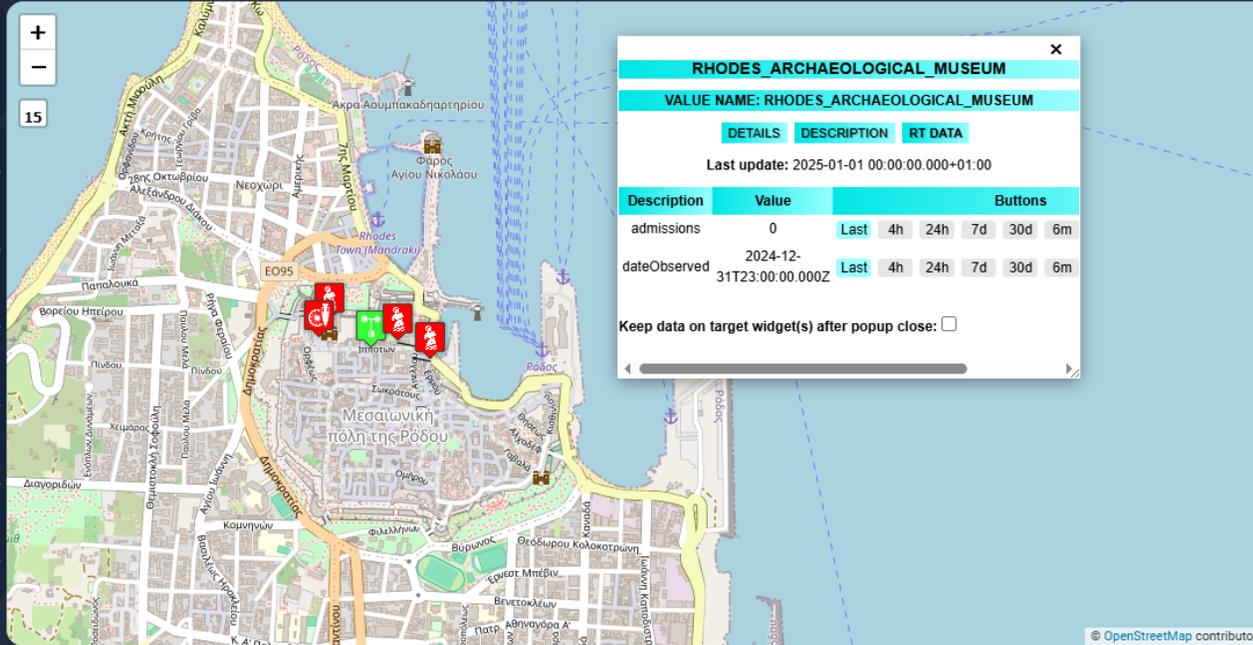
UV Index forecasts



Museum visitors



Archeological Sites visitors



RHODES

DAY	UV Index	Crime Colum
TODAY	9.9	313.3
2025-06-10T08:00:00.000Z	9.7	319.6
2025-06-11T08:00:00.000Z	9.9	313.8
2025-06-12T08:00:00.000Z	9.7	318.6
2025-06-13T08:00:00.000Z	9.5	324.7
2025-06-14T08:00:00.000Z	9.6	321.2

LOW MODERATE HIGH EXTREME

Documentation

Air Temperature

RHODES - Air Temperature - Weekly trend

28 °C

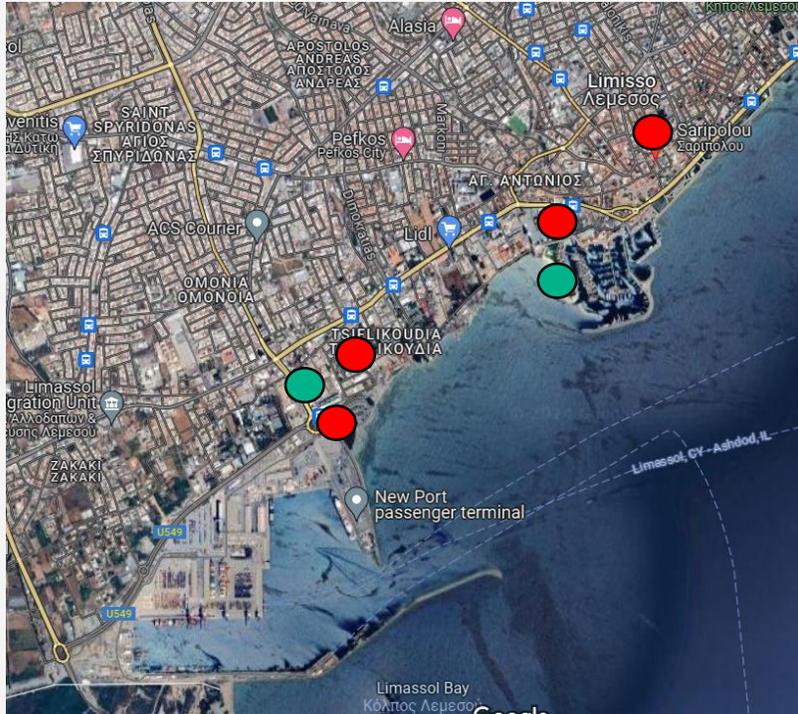


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Cyprus – Scenario: Limassol Port



Target: Measure and Analyse the Tourist flow within Old port of Limassol and Port of Limassol. Understand the patterns of tourist movement and behaviours.



Equipment:

- 4 Thermal cameras ●
- 10 Pax counters ●





TOURISMO Limassol

Co-funded by the European Union

- Open Weather Limassol
- Sea conditions Limassol
- Air pollution Limassol
- UV Index forecasts

[Documentation](#)

LIMASSOL UV FORECAST BY DATE		
VALUE NAME: LIMASSOL UV FORECAST BY DATE		
DETAILS	DESCRIPTION	RT DATA
Last update: 2025-08-29 10:00:00.000+02:00		
Description	Value	
dateObserved	2025-08-29T08:00:00.000Z	Last 4h 24h 7d
forecast_date_0	2025-08-30T08:00:00.000Z	Last 4h 24h 7d
forecast_date_1	2025-08-31T08:00:00.000Z	Last 4h 24h 7d
forecast_date_2	2025-09-01T08:00:00.000Z	Last 4h 24h 7d
forecast_date_3	2025-09-02T08:00:00.000Z	Last 4h 24h 7d
forecast_date_4	2025-09-03T08:00:00.000Z	Last 4h 24h 7d

LIMASSOL		
DAY	UV Index	Ozone Column
TODAY	10.3	311.1
2025-08-10T08:00:00.000Z	10.7	304.1
2025-08-11T08:00:00.000Z	10.5	308.2
2025-08-12T08:00:00.000Z	10.3	313.2
2025-08-13T08:00:00.000Z	10.6	306.4
2025-08-14T08:00:00.000Z	10.5	309.2

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LOW MODERATE HIGH EXTREME





CITY



INDUSTRY



ARTIFICIAL INTELLIGENCE



SASUAM

LUTECH



UNIVERSITÀ DEGLI STUDI DI CAGLIARI



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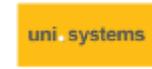
Regione Toscana



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SNAP4 CAPELON



Joint Research Centre

italmatic



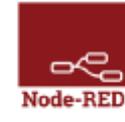
FREE TRIAL



PEN Test Passed



SNAP4 Appliances and Dockers Installations



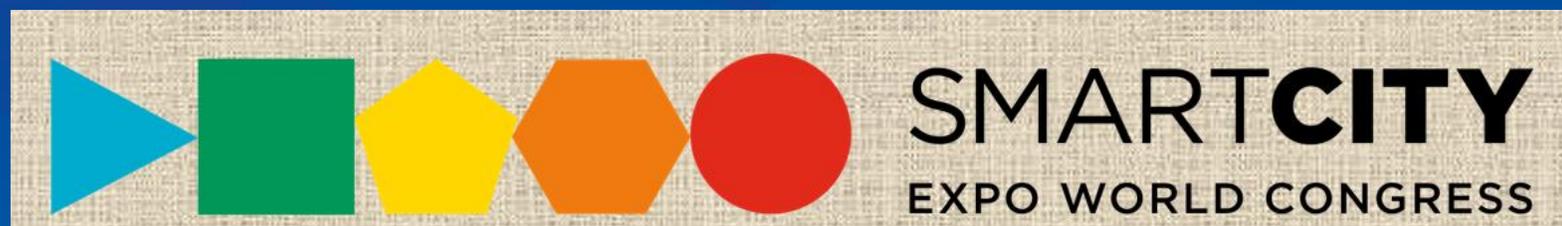
Powered by FIWARE



E015 digital ecosystem



Be smart in a SNAP!



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