



smartsense

sensees

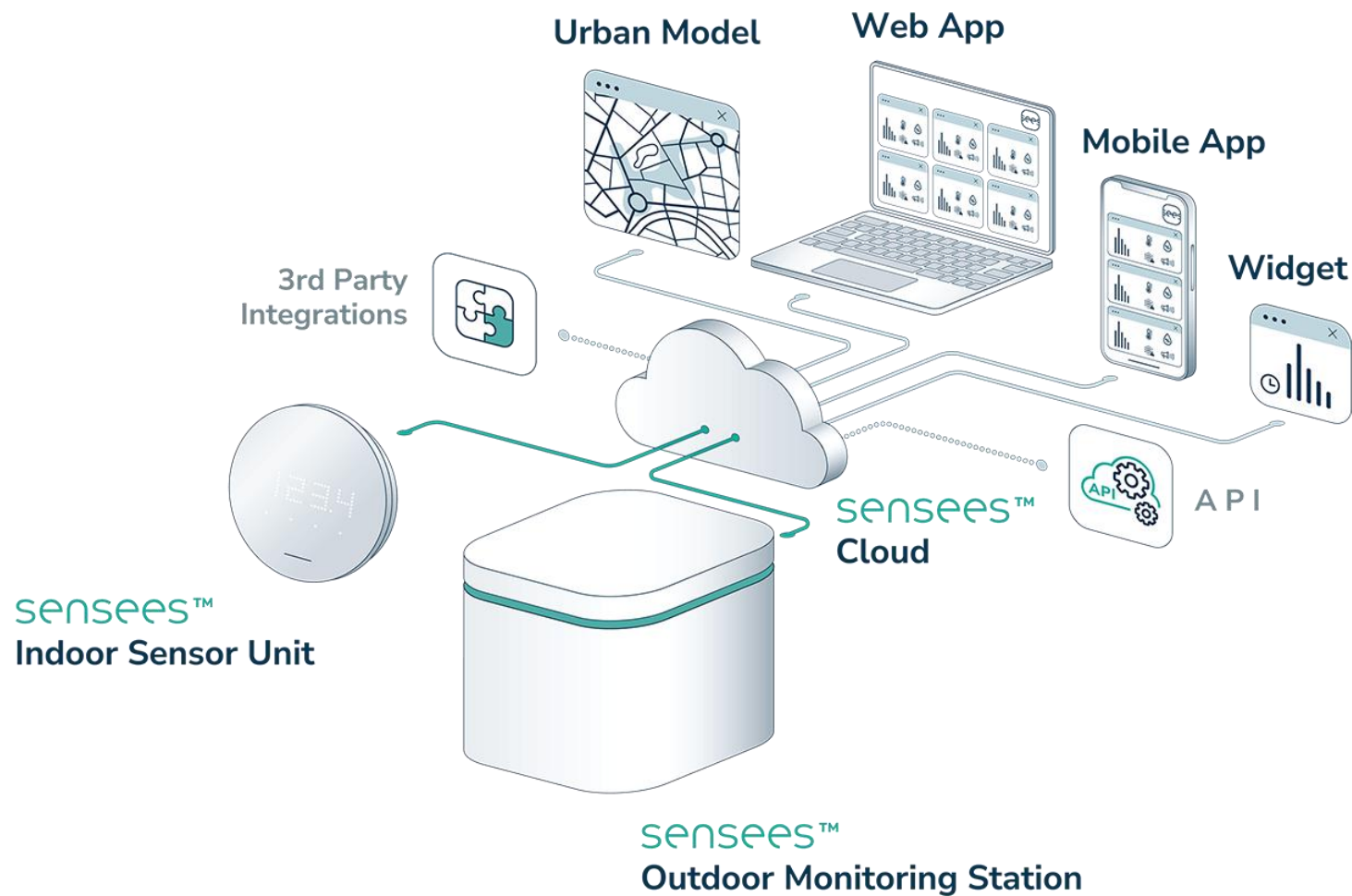
Environment
Monitoring System

Smart Sense at Glance

- **European R&D company** focused on environmental monitoring and smart sensing technologies
- More than a **decade of experience** in air quality monitoring
- Complete in-house ecosystem: **design, HW&SW development and production**
- **30 multidisciplinary experts driving innovation** in environmental sensing
- **Dedicated laboratory** for product calibration and validation
- Strong **collaboration with scientific institutions, public authorities, and environmental agencies**
- **Partner in multiple EU-funded research and innovation projects**



Environmental Monitoring System



What does indicative monitoring station means?

How Are These Systems Commonly Referred To?

- ~~• Low-Cost Sensors (LCS)~~
- ~~• Citizen Science Sensors~~
- Indicative Monitoring Stations
- Air Quality Sensor Systems (AQSS)

- EU Directive 2008/50/EC

- EU Directive 2024/2881

AQSS Performance Classes

**Lower uncertainty =
higher measurement
quality and greater
regulatory value.**

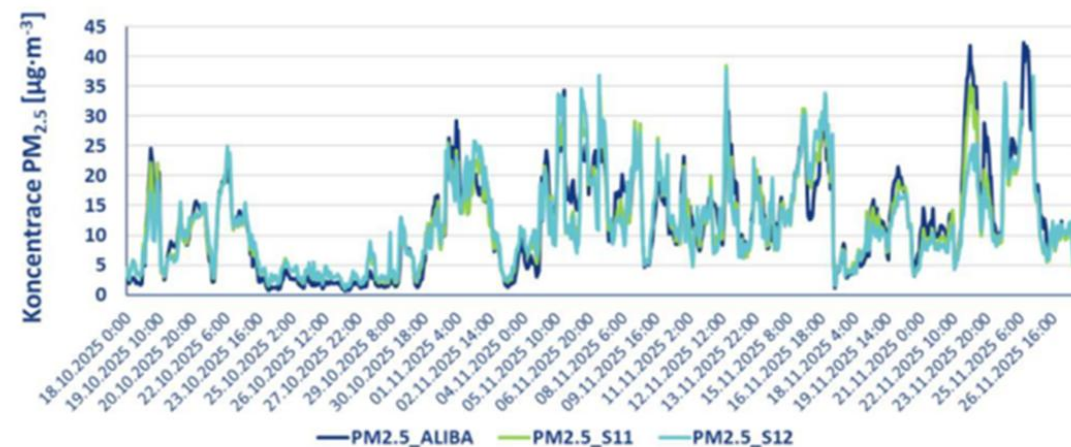
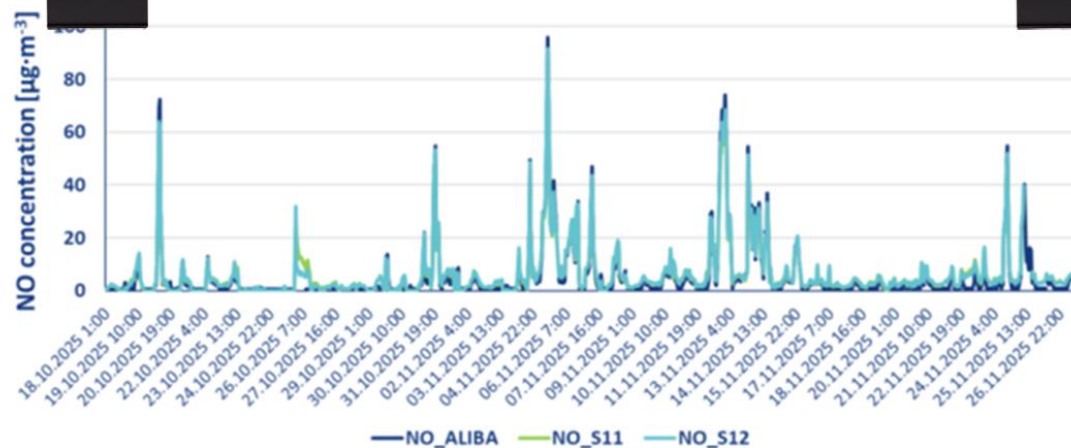
AQSS Class 1 requires sensor systems to demonstrate high measurement accuracy (typically $\leq 25\%$ uncertainty, 30% for O₃) and meet strict performance criteria for linearity, repeatability, drift, and environmental robustness



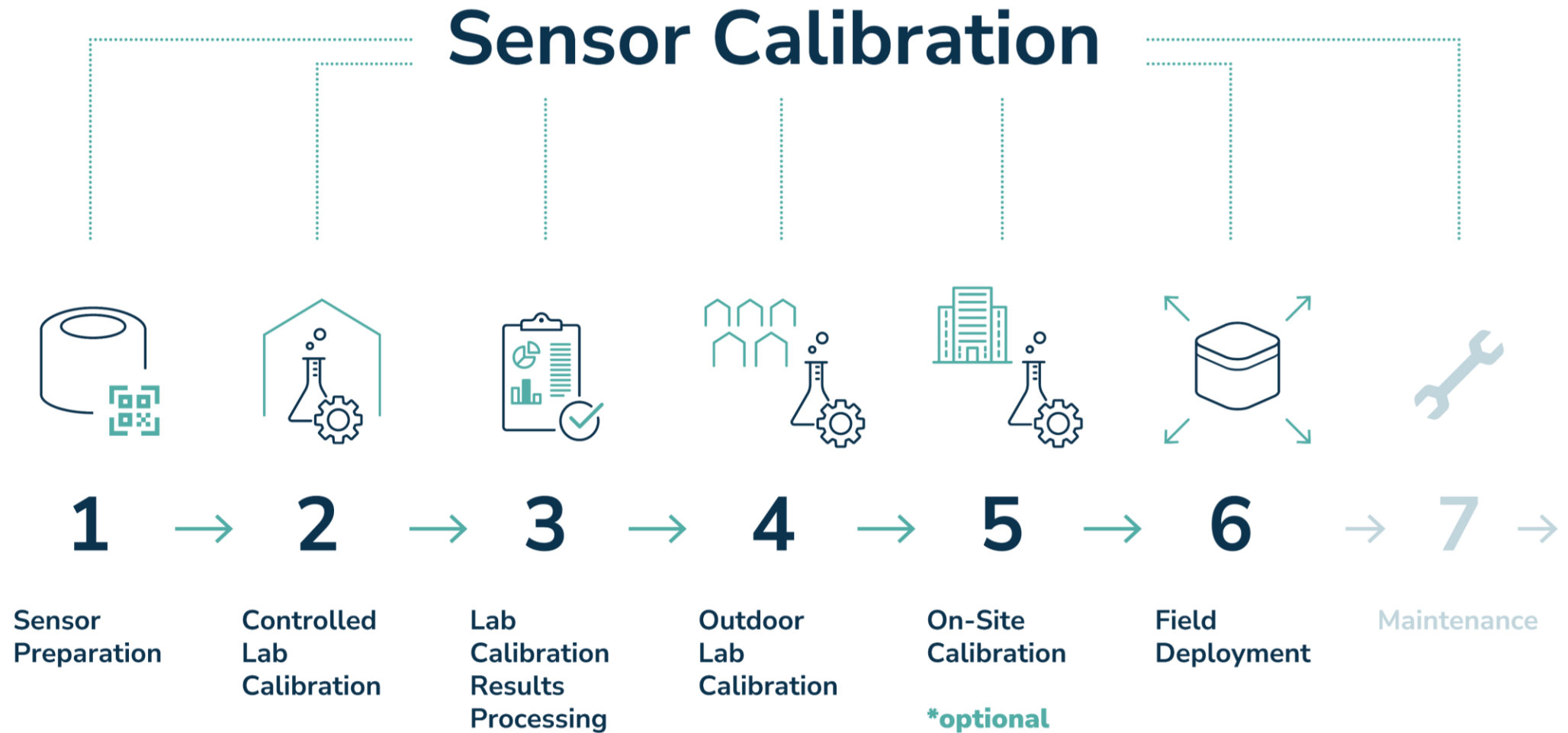
 POLLUTANT	 AQSS CLASS 1	AQSS CLASS 2	 AQSS CLASS 3
	MAXIMUM UNCERTAINTY (% OF LIMIT VALUE)	MAXIMUM UNCERTAINTY (% OF LIMIT VALUE)	MAXIMUM UNCERTAINTY (% OF LIMIT VALUE)
 PM _{2.5}	50%	100%	200%
 PM ₁₀	50%	100%	200%
 NO ₂	25%	75%	200%
 O ₃	30%	75%	200%
 SO ₂	25%	75%	200%
 CO	25%	75%	200%
 Benzene	30%	100%	200%

Approved by CHMI

- test report



In house calibration & data validation



A Market Game Changer: Certification According to CEN/TS 17660

Why it matters?

- ✓ Faster and more confident procurement decisions
- ✓ Clear classification of available monitoring solutions
- ✓ Improved spatial coverage through wider deployment of sensor networks
- ✓ New market opportunities for innovative technology providers

**Innovation Is Ready.
Regulation Must
Follow!**

The success of the AQSS
framework will depend not only
on technical standards, but also
on timely regulatory adoption
and market recognition.

**Get to your senses.
Connect with your
environment.**

sensees

Outdoor Air Quality Monitoring System

The system consists of 3 integral parts:

Sensees Outdoor Monitoring Station

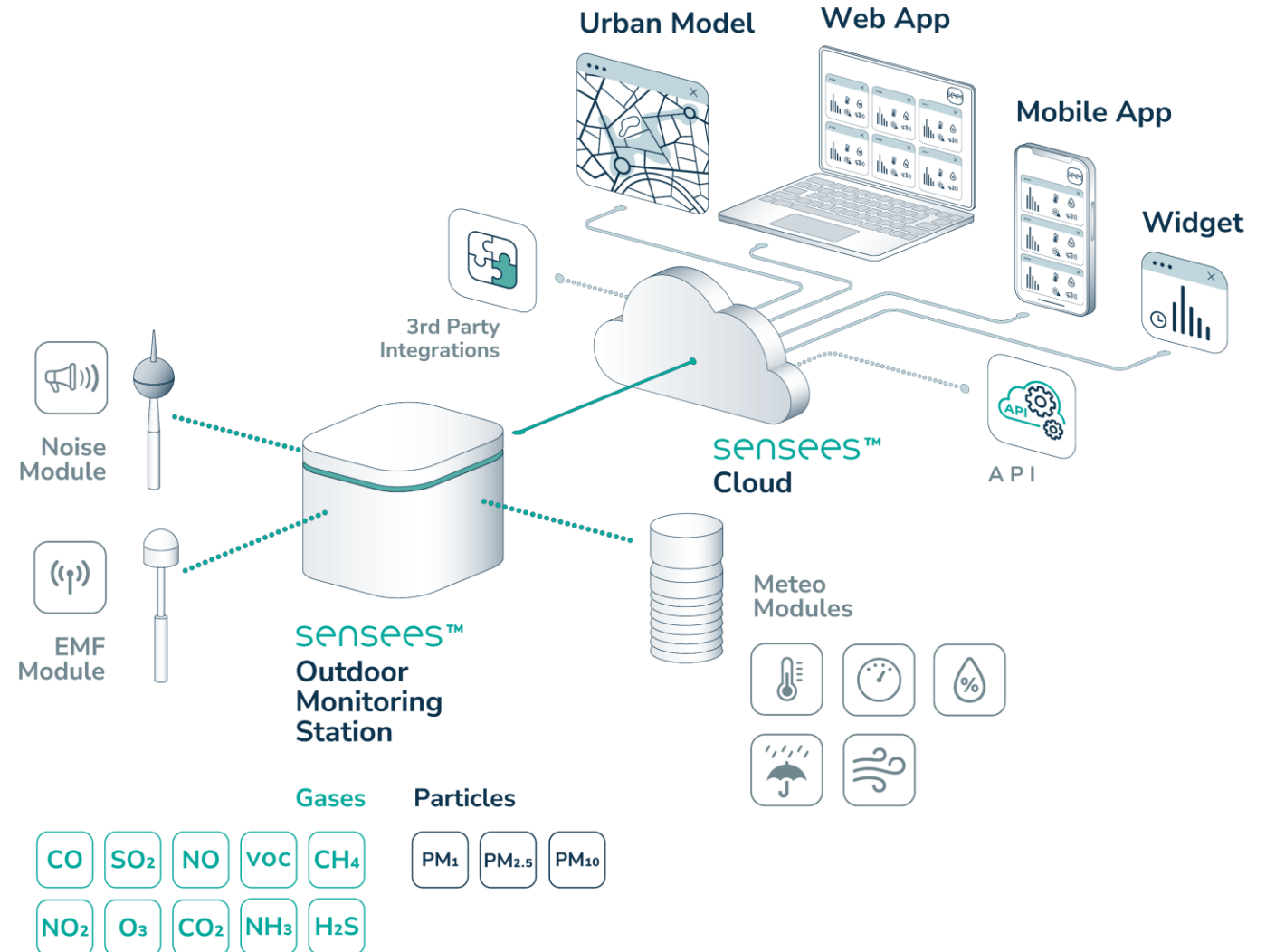
Measuring outdoor air quality and other environmental parameters

Sensees Cloud

Data storage and analysis

Sensees Mobile & Web app

Real-time data available at hand



sensees

Outdoor Air Quality Monitoring System

Urban Model Web and Mobile Application

Flexible and extendable software platform

Real-time data

Color-coded Air Quality Index

Graphical and numerical overview of measurement data

Location management of monitoring stations

Data history – for specifically defined period – REPORTS

User profile, Operation mode & Rules management – PUSH

NOTIFICATIONS

iOS & Android Compatible



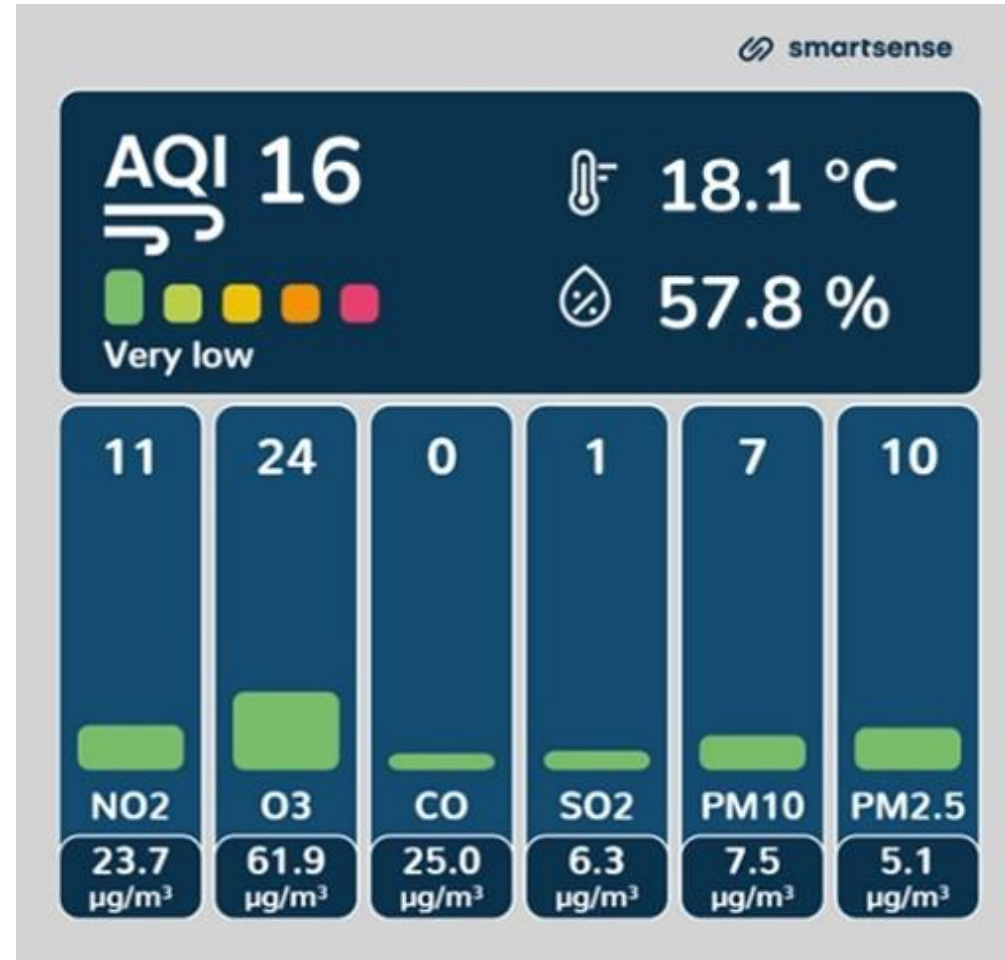
Widg



Outdoor Air Quality Monitoring System

Widget

Simple overview of air quality integrated in publicly available interfaces

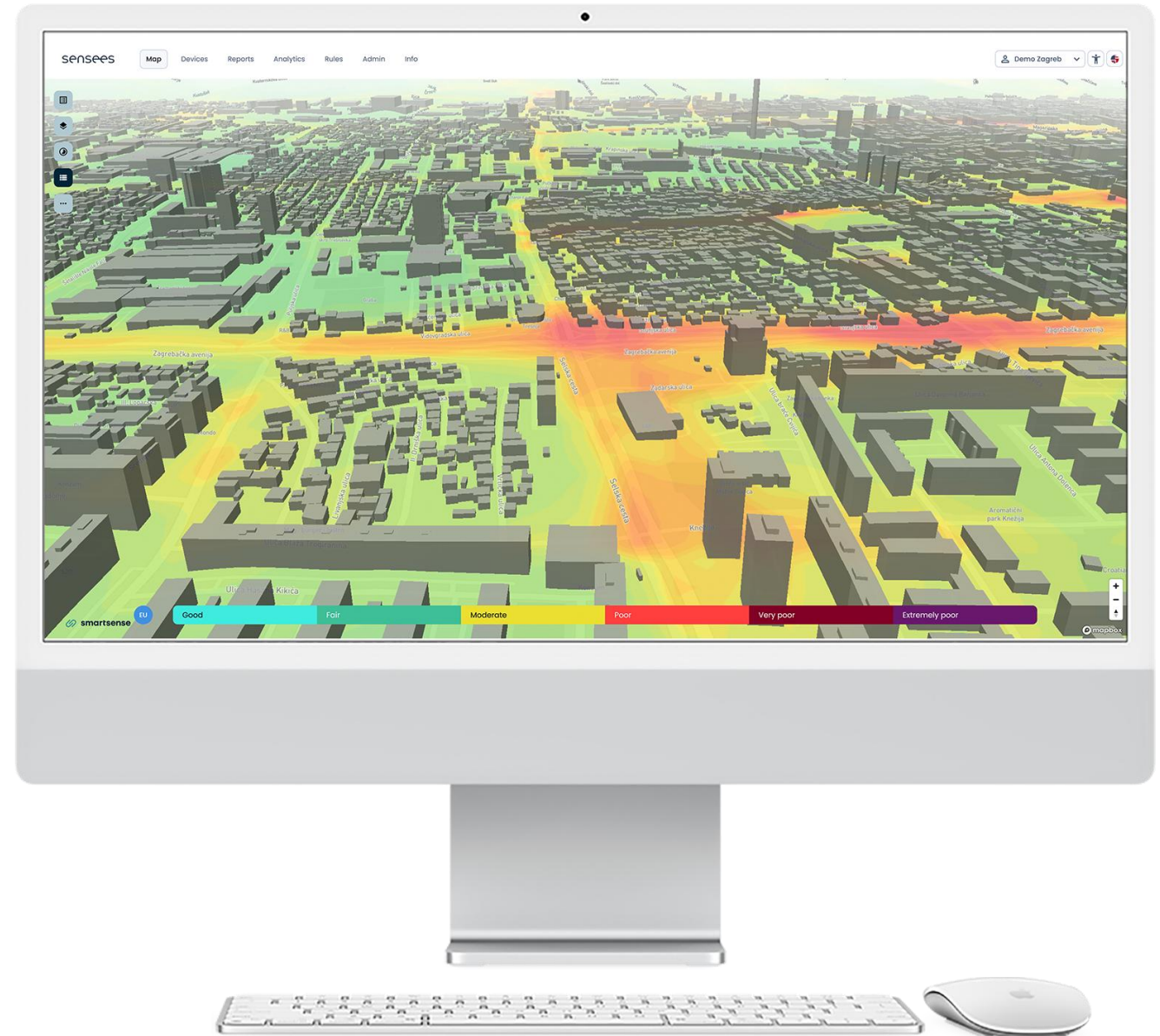




Outdoor Air Quality Monitoring System

Urban Air Quality model

A solution that enables a
24-hour pollution projection
in the selected area on a
10x10 meters resolution grid

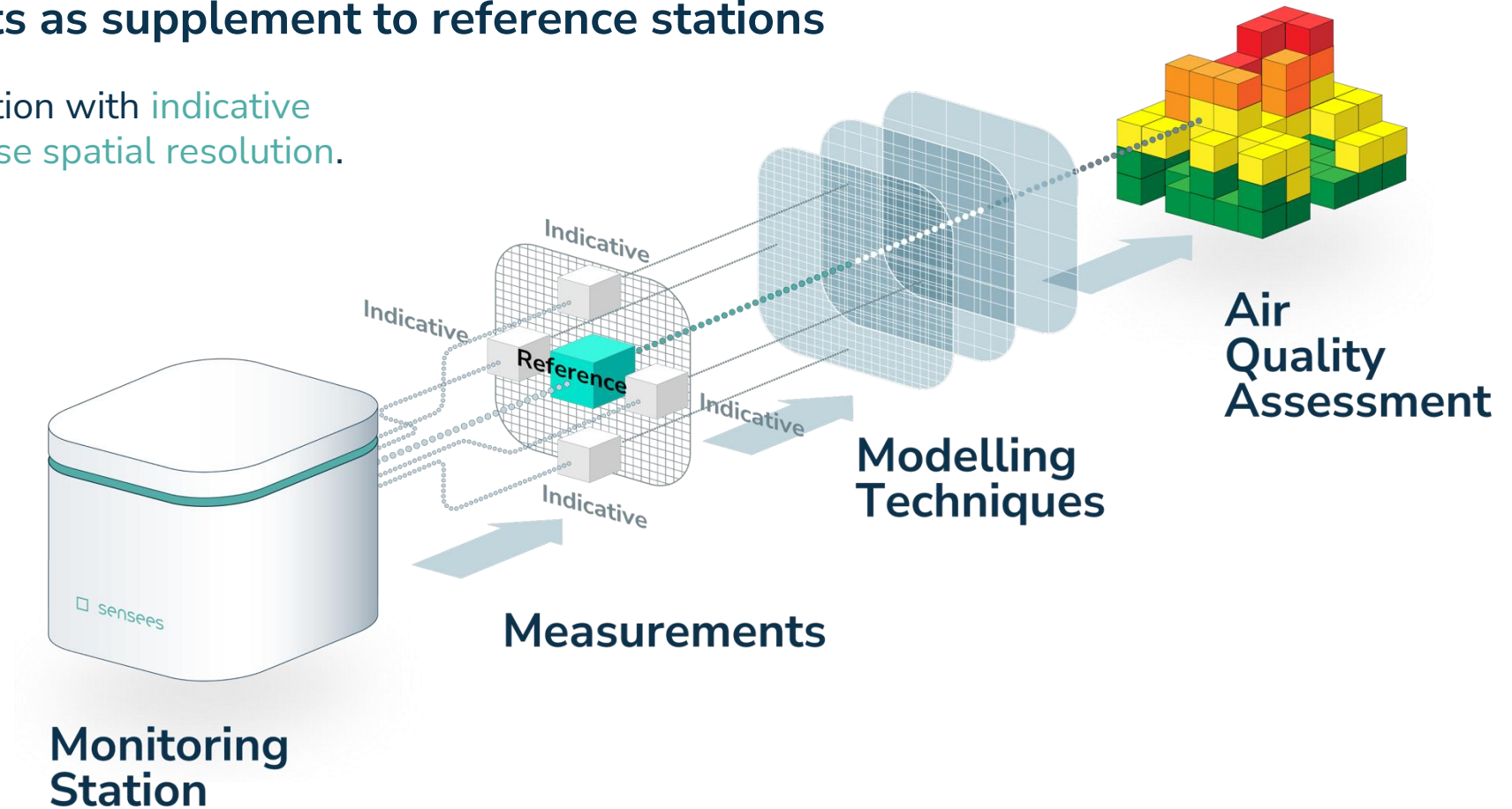




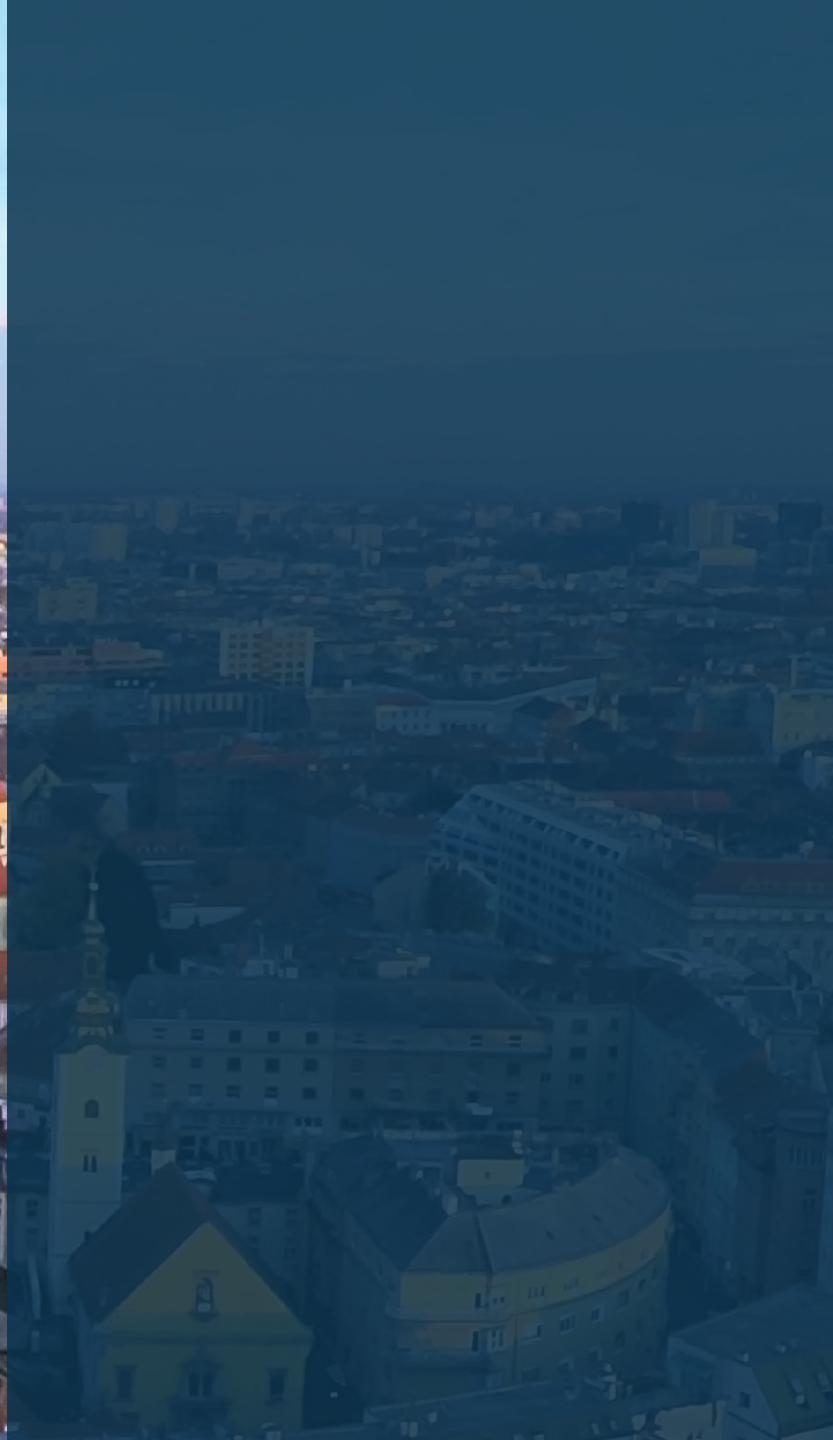
Outdoor Air Quality Monitoring System

Indicative measurements as supplement to reference stations

Complete your air quality solution with indicative monitoring stations and increase spatial resolution.



From Zagreb to cities across the globe



Here's how the
**Sensees Air Quality
Monitoring System**
was rolled out in the
City of Zagreb

49

Outdoor stations
monitoring
Zagreb's air quality

OUTDOOR
Air Quality
Monitoring Station



Indoor sensors
installed in over

1700
classrooms

INDOOR
Air Quality Sensor

**Mobile**

Air Quality stations
—
extending city-wide
coverage

MOBILE
Air Quality
Monitoring

**Predictive**

air quality model
=
Turning data
into action!

PREDICTIVE
Urban Air Quality
Model

**ONE**

platform collecting
and analysing
all sensor data

ENVIRONMENTAL
Platform



ne City of Zagreb
Quality
system
it in the
o

49

Outdoor stations
monitoring
Zagreb's air quality

OUTDOOR
Air Quality
Monitoring Station



Indoor sen
installed in

170
classroom

MOBILE

PREDICTIVE

sensees

Karta

Uredaji

Pregled

Izveštaji

Analitika

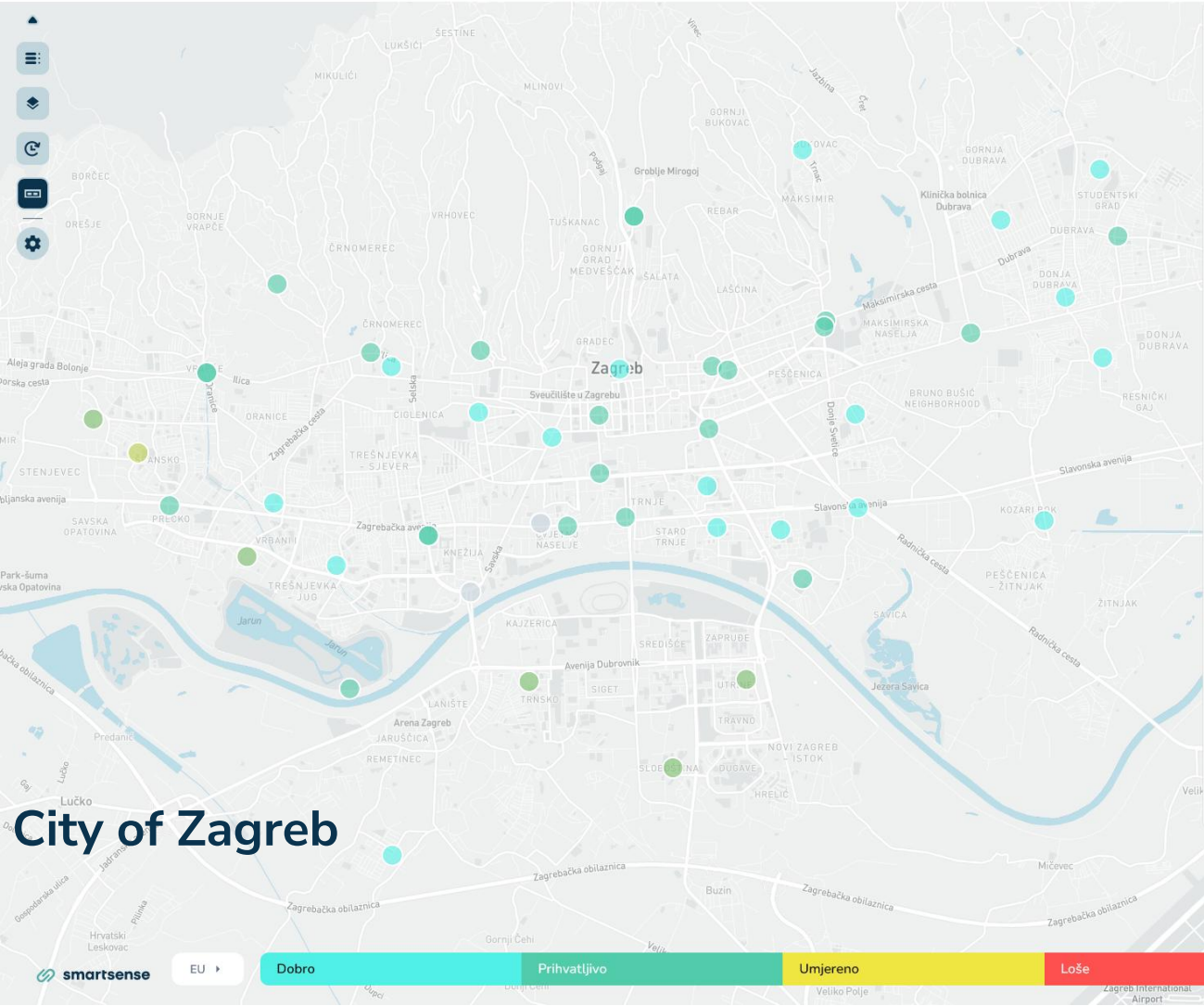
Export

Pravila

Admin

Info

Demo Zagreb

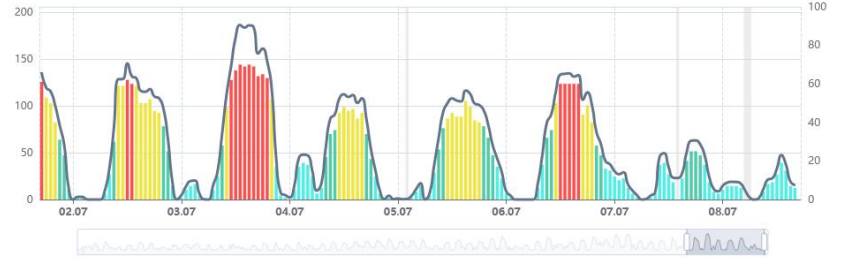


NZG07 AIRQ223 | 08.07.25 16:00



EAQI Prometni Dobro Dušikov dioksid 08.07.25 16:00	Temperatura 19.4 °C ↑ 08.07.25 16:00	Relativna vlažnost 73.6 % ↓ 08.07.25 16:00	Tlak zraka 99.4 kPa ↑ 08.07.25 16:00
Brzina vjetra 1.4 m/s ↑ 08.07.25 16:53	Dušikov dioksid 38.1 µg/m³ ↓ 08.07.25 16:00	Ozon 15.5 µg/m³ ↓ 08.07.25 16:00	Uglikov monoksid 225.9 µg/m³ ↑ 08.07.25 16:00
Sumporov dioksid 2.2 µg/m³ 08.07.25 16:00	Čestice 10 µm 2.7 µg/m³ ↓ 08.07.25 16:00	Čestice 2,5 µm 1.3 µg/m³ ↓ 08.07.25 16:00	Čestice 1 µm 1.1 µg/m³ ↓ 08.07.25 16:00
Dušikov monoksid 28.5 µg/m³ ↑ 08.07.25 16:00			

utorak, 1. - utorak, 8. srpanj 2025.



Agregacijski inte...

Sat

Odaberite period

Zadnjih 7...

Od datuma

01.07.2025 16:59

Do datuma

08.07.2025 16:59

City of Zagreb



EU

Dobro

Prihvatljivo

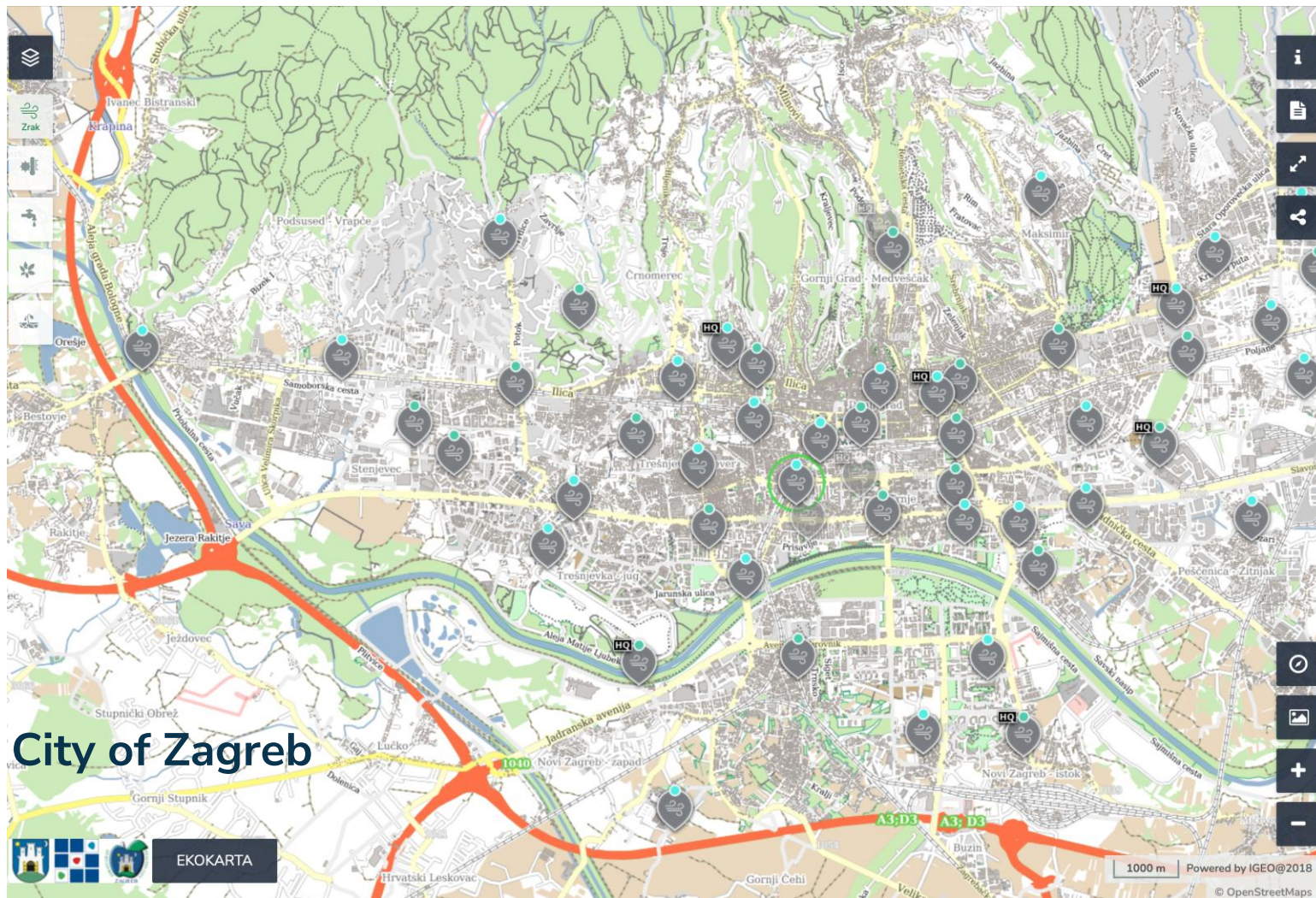
Umjereno

Loše

Vrlo loše

Izuzetno loše





Križanje Savska – Vukovarska

Savska cesta 56



MREŽA:

Mreža automatiziranih mjernih stanica/senzora - projekt financiran od strane Europskog fonda za regionalni razvoj, kod projekta: KK.01.2.1.02.0327

PROVODITELJ

Nastavni zavod za javno zdravstvo "dr. Andrija

PREVENTIVNOG PROGRAMA: Štampar", Mirogojska 16, Grad Zagreb

INDEKS KVALITETE ZRAKA

ONEČIŠĆUJUĆA TVAR



Dobro

08.07.2025.
16:00

ZDRAVSTVENE PREPORUKE

OPĆA POPULACIJA

Kvaliteta zraka je dobra. Uživajte u svojim svakodnevnim aktivnostima na otvorenom.

OSJETLJIVE SKUPINE GRAĐANA

Kvaliteta zraka je dobra. Uživajte u svojim svakodnevnim aktivnostima na otvorenom.

INFORMACIJE

NAPOMENA! 30.10.2024. 14:02

Podaci s "low-cost" senzora informativnog su karaktera i ne služe za godišnju ocjenu kvalitete zraka na tom području. Podaci sa senzora redovito se kalibriraju pomoću postaje koja prati kvalitetu zraka referentnim metodama. Godišnja ocjena kvalitete zraka donosi se na temelju podataka dobivenih s postaja označenih oznakom HQ, a koje prate kvalitetu zraka referentnim metodama iz priloga 7. Pravilnika o praćenju kvalitete zraka (NN 72/20).

Obavijest

POVIJESNI PODACI

Dan Tjedan Mjesec 2 God.



City od Zagreb

Indoor sensors
installed in over
1700
classrooms

INDOOR
Air Quality Sensor



sensees

Map

Devices

Overview

Reports

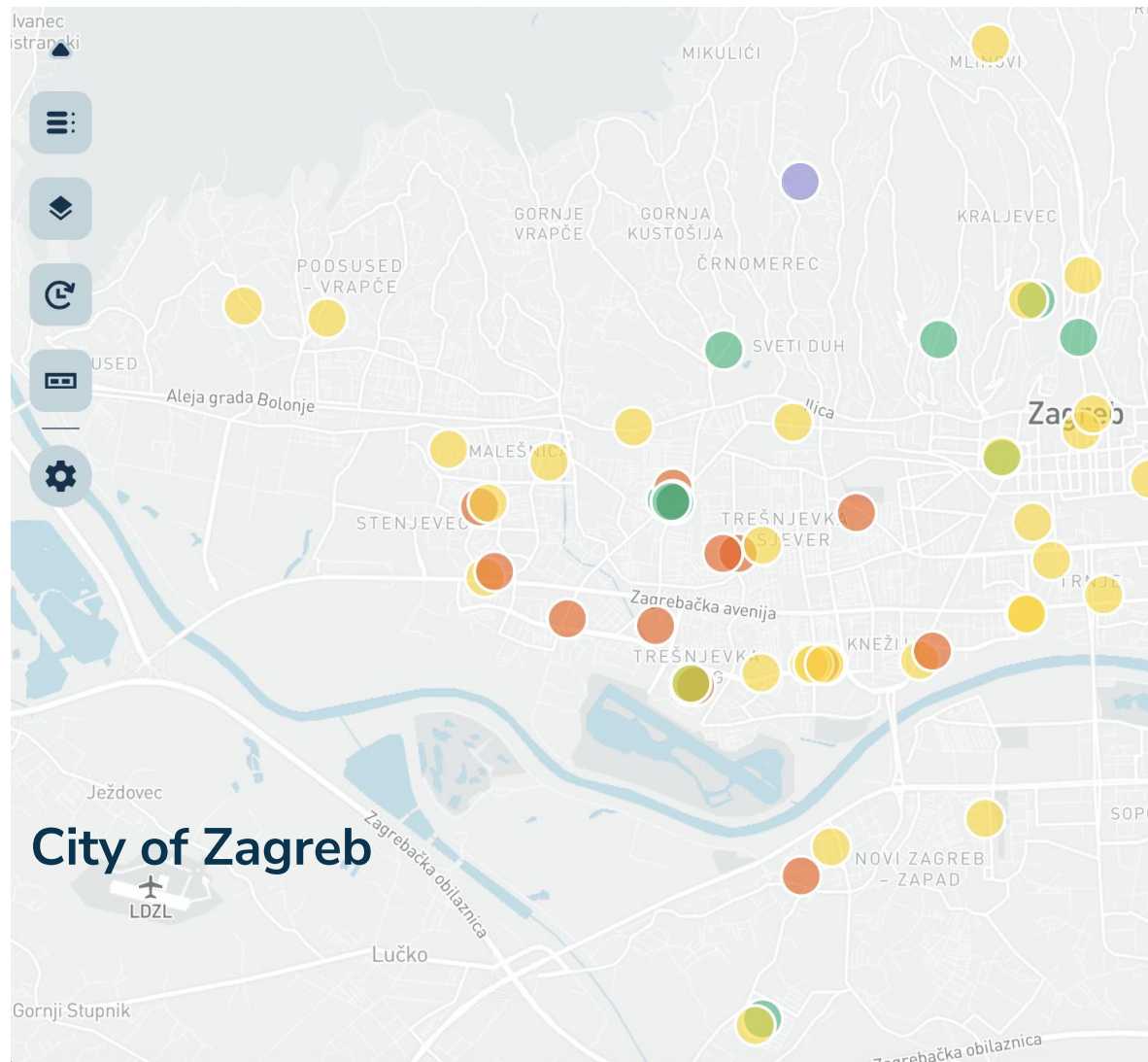
Analytics

Export

Rules

Info

Demo Korisnik



MySensees 1356 | 13.04.26 21:54



Carbon dioxide

752 ppm ↓

Good air quality



13.04.26 21:54

Temperature

19.9 °C ↑



13.04.26 21:54

Humidity

47.9 % ↓



13.04.26 21:54

Pressure

99.1 kPa ↓



13.04.26 21:54

Particles 10 µm

5.3 µg/m³ ↓



13.04.26 21:54

Particles 2.5 µm

4.8 µg/m³ ↓



13.04.26 21:54

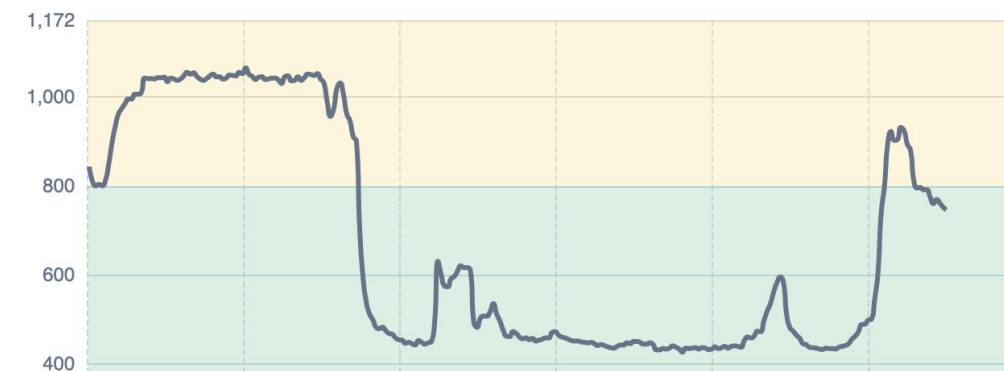
Particles 1 µm

3.6 µg/m³ ↓



13.04.26 21:54

Monday, 13. April 2026.



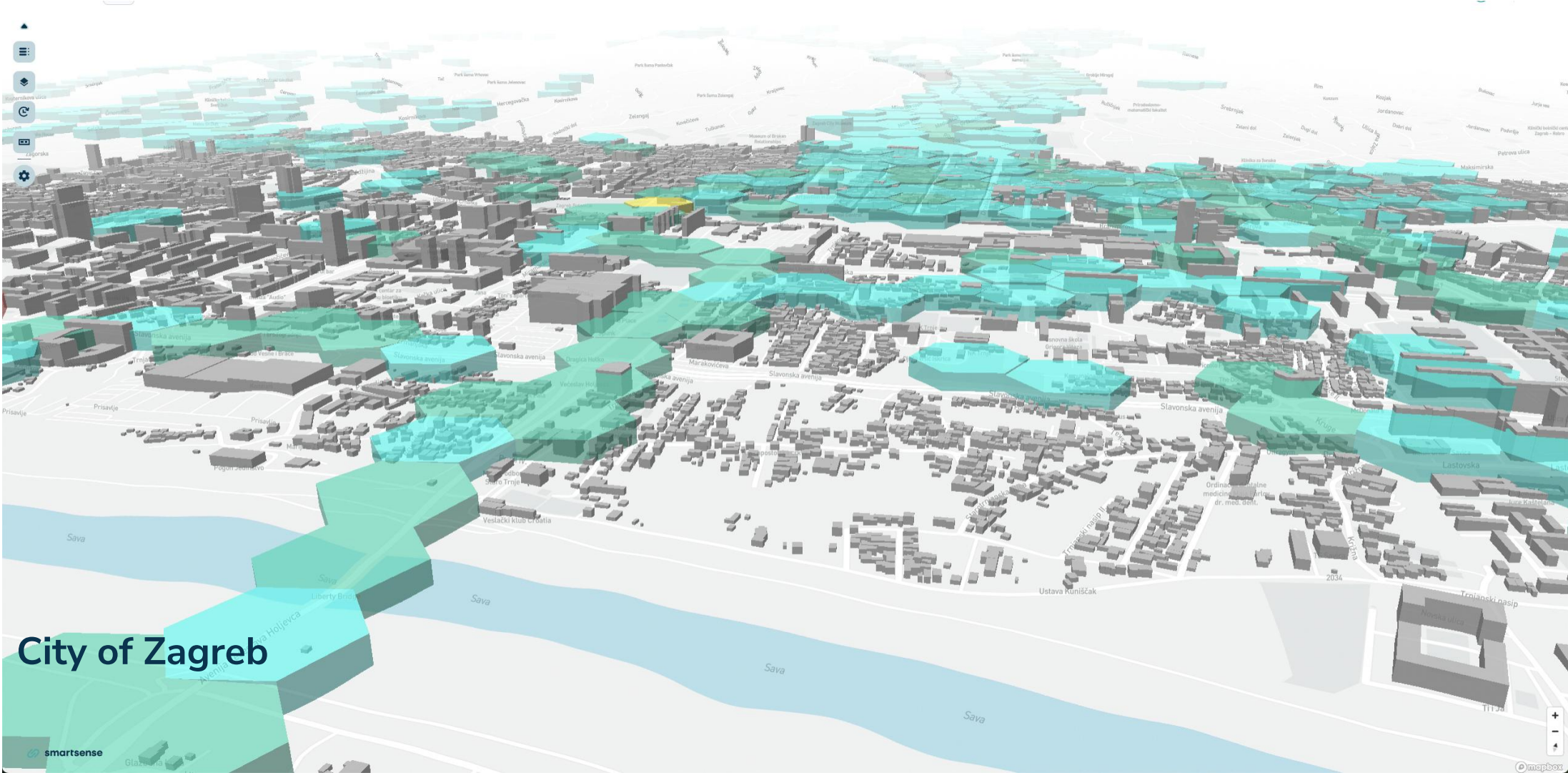
City od Zagreb

Mobile

Air Quality stations
—
extending city-wide
coverage

MOBILE
Air Quality
Monitoring





City od Zagreb

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Turning data
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PREDICTIVE
Urban Air Quality
Model





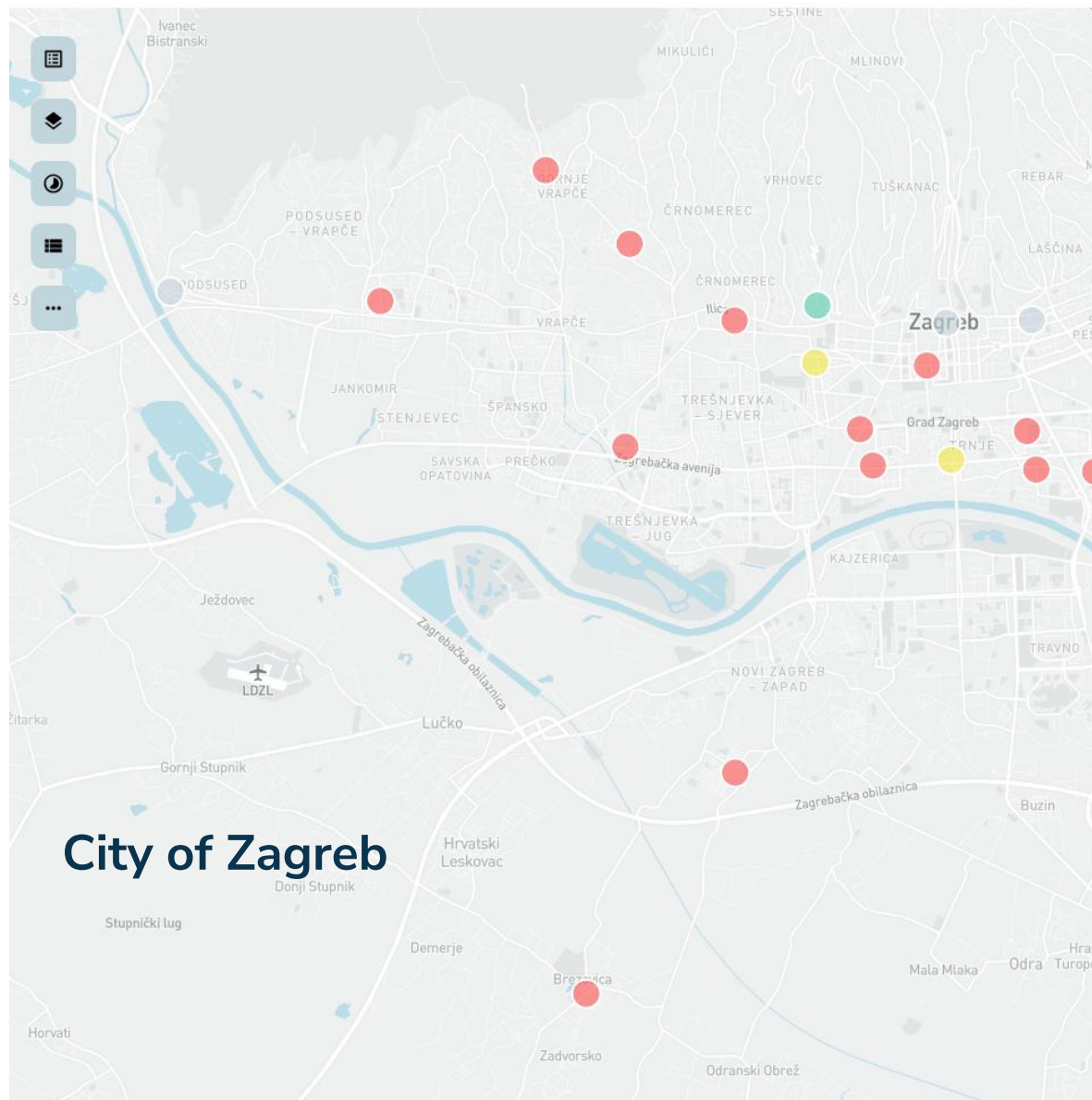
City od Zagreb

ONE

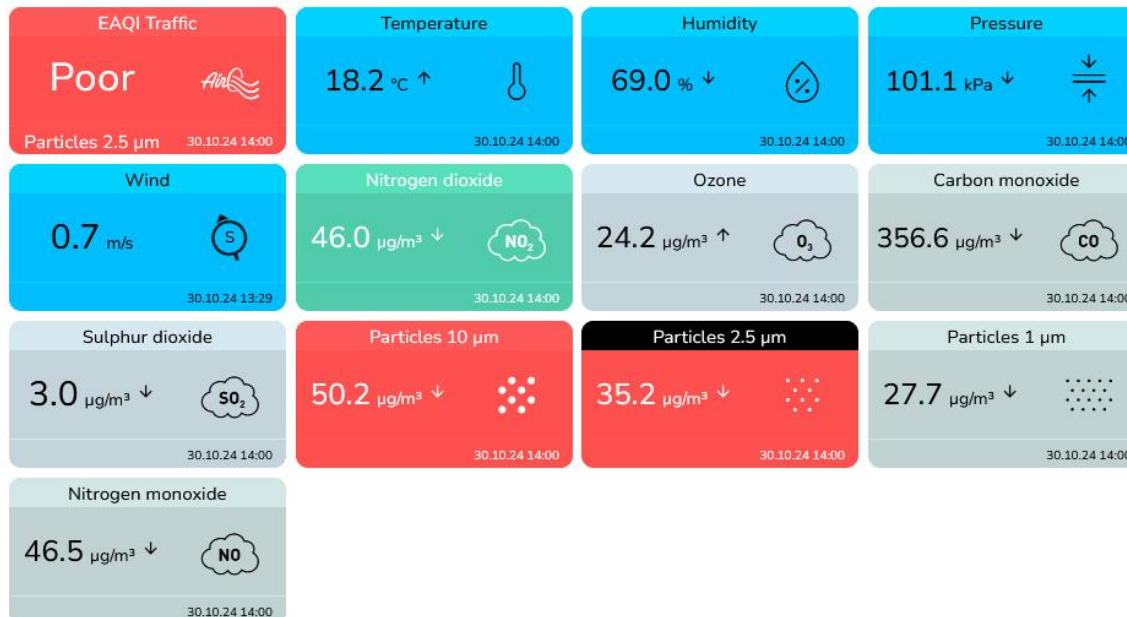
platform collecting
and analysing
all sensor data

ENVIRONMENTAL
Platform

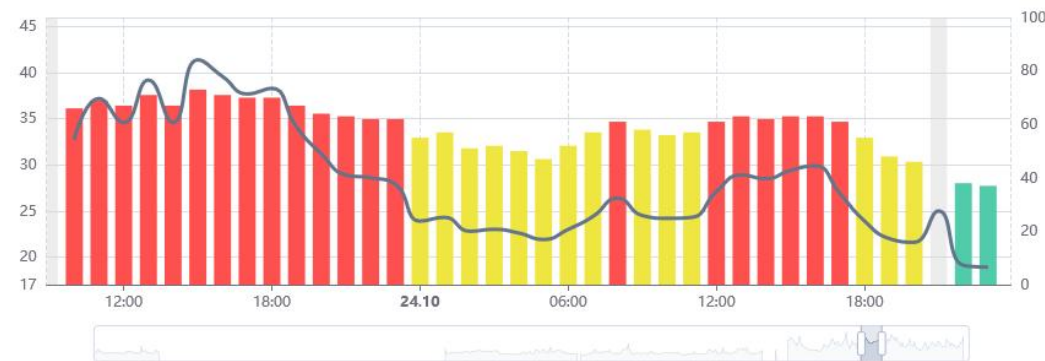




NZG23 AIRQ212



Wednesday, 23. - Thursday, 24. October 2024.



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platform collecting
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ENVIRONMENTAL
Platform





Getting our **sensees** together
on **world fairs and congresses**

Smart Sense at international trade fairs and conferences



SMART CITY EXPO
WORLD CONGRESS,
BARCELONA

2021



2024



2025

Smart Sense at international trade fairs and conferences



CEM
LJUBLJANA
2025

LEAP
RIYADH
2022

Smart Sense at international trade fairs and conferences



AQE
BIRMINGHAM
2025

Smart Sense at international trade fairs and conferences

UPCOMING EVENTS 2026

16–17
SEPTEMBER

Air Quality and Emissions Expo (AQE)

Birmingham, UK
Stand AQE-J42

03–05
NOVEMBER

SmartCity Expo

Barcelona, ES
Hall 2, Level 0, Street C, Stand 79

 **smartsense**

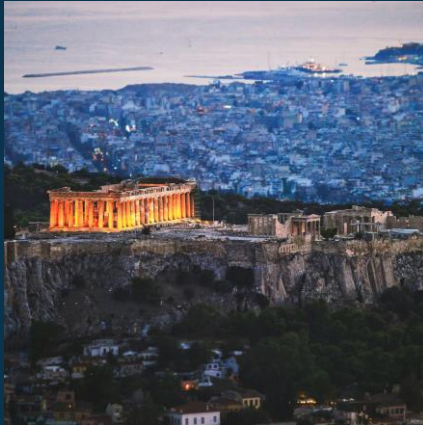
See you there!

Bringing **sensees**
together all over the world.

Trusted by Cities, Institutions and Industry worldwide



City of Atena



City of Šibenik



DHMZ Croatia



Messer Industry



City of Nicosia



City of Dubrovnik



Riyadh Cement Co.



City of Kranj

... many more

mysensees.com

The background features several thin, teal-colored lines that form abstract, flowing shapes. These lines sweep across the lower half of the page, creating a sense of movement and organic form.