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Smart environment monitoring

ekoNET - know the air you're breathing

ekoNET combines **portable devices** and **cloud based functionality** to enable air quality monitoring (indoors and outdoors) in a very **granular manner, previously not possible due to high cost.**

Enables monitoring of concentration of
- PM (particles), CO, CO2, SO2, NOx, Ozone, temp., humidity, noise
- in the air
- in real time
- air quality index calculated

People advised on how to behave in case of increased pollution.

Turnkey, cost-efficient, scale as you grow solution for monitoring a range of environmental parameters.

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A city-wide granular view of air quality – the first step in combating air pollution health hazards

Powerful reporting

- Dashboard view to visualize real-time and historical measurements
- CAQI calculation and reporting
- Mobile app and web widget for more flexibility

Flexible configuration

- Multiple communication interfaces(WiFi, GPRS, 3G, 4G, LoRa, NB-IoT, BLE)
- Rich set of sensors to choose from (PM, NOx, SO2, CO, CO2, O3, temperature, humidity, air pressure, noise, etc.)
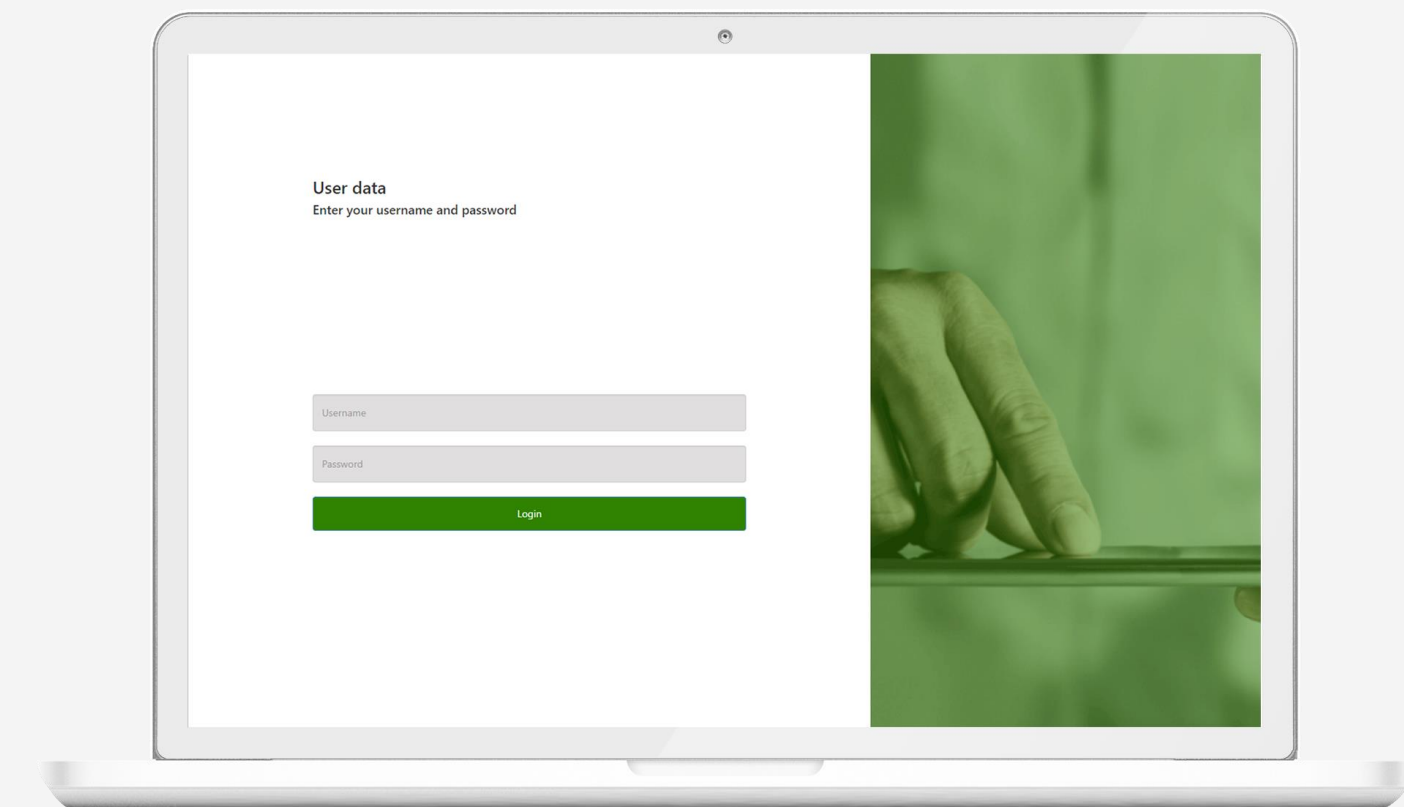
Secure, enterprise grade environment

- Deployed on MS Azure for security and reliability
- On ours or yours cloud subscription for increased control of private data
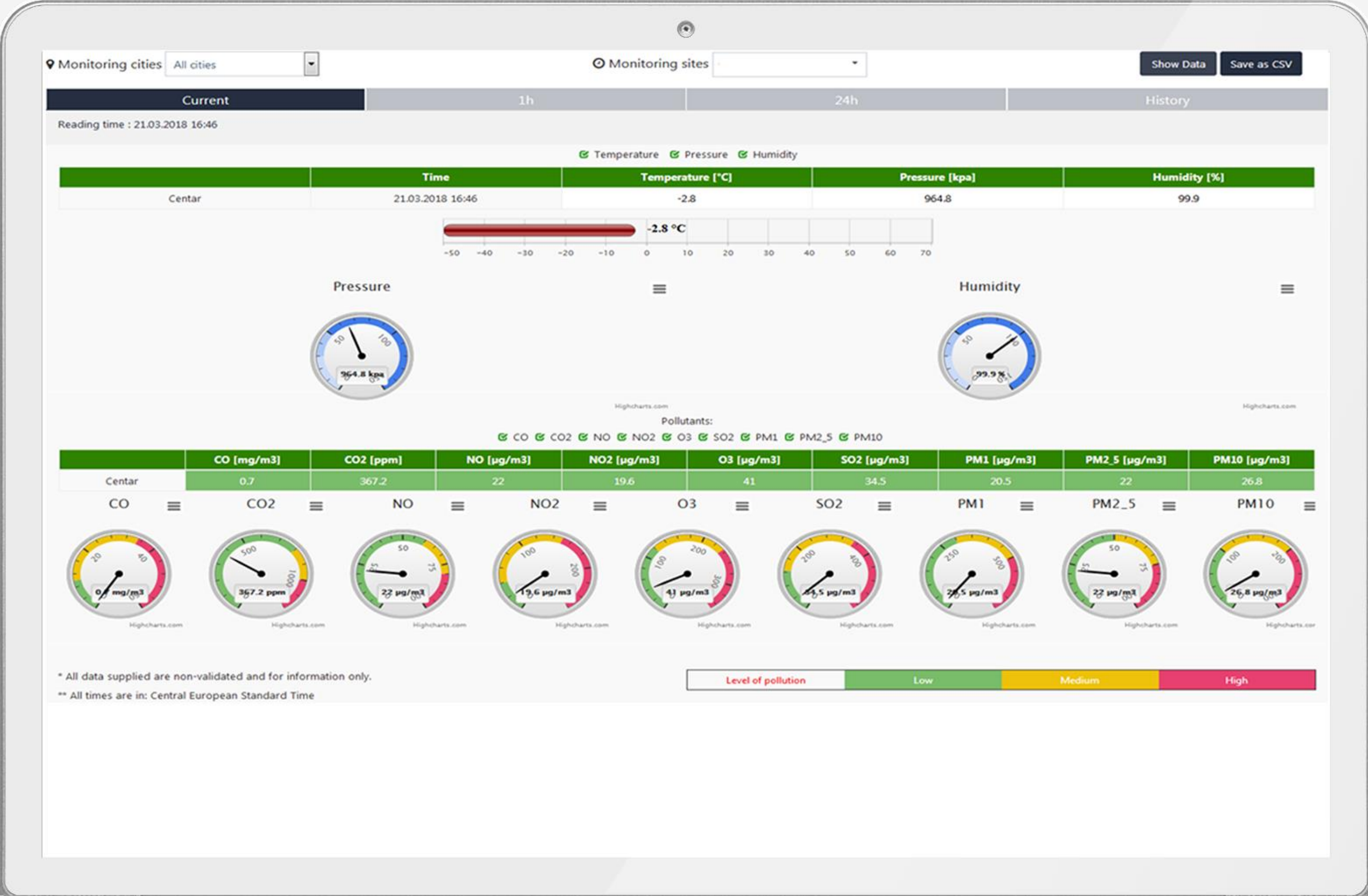- GDPR compliance
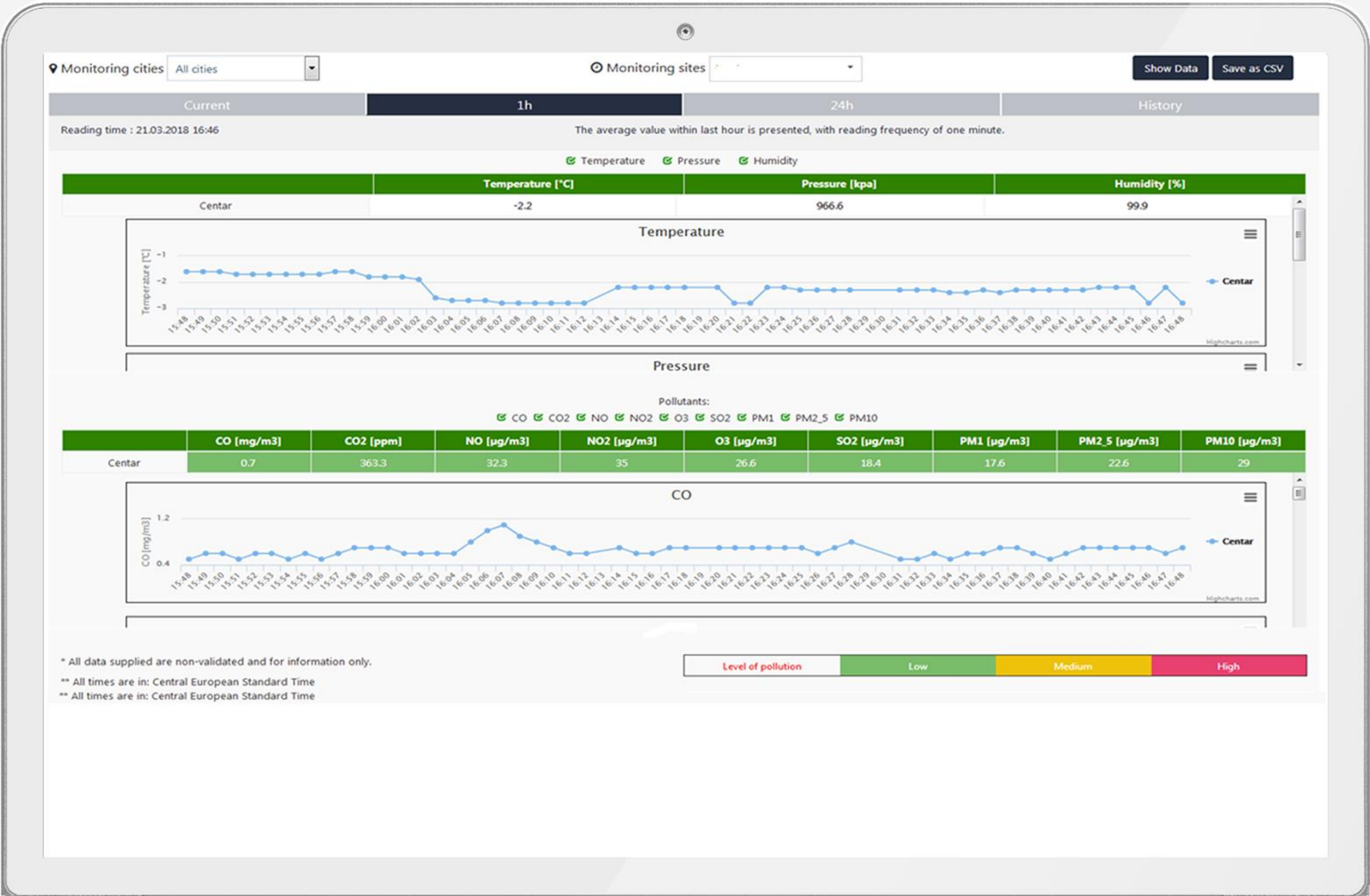
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Main features

- Flexible device configuration
  - Multiple communication interfaces supported (3G, 4G, LoRa, NB-IoT, WiFi, GPRS)
  - Configurable set of sensors: PM, CO, CO2, NO, SO2,NO2, O3, temp, humidity, noise
  - High quality gas sensors
- Data visualization (map, list, graph)
  - Current values
  - 1h values
  - 24 values
  - Calculated CAQI-1h and CAQI-24h (Common Air Quality Index)
  - Historical values (over selected period of time)
- Notifications/alarms when values out of defined range
- Algorithms for data processing
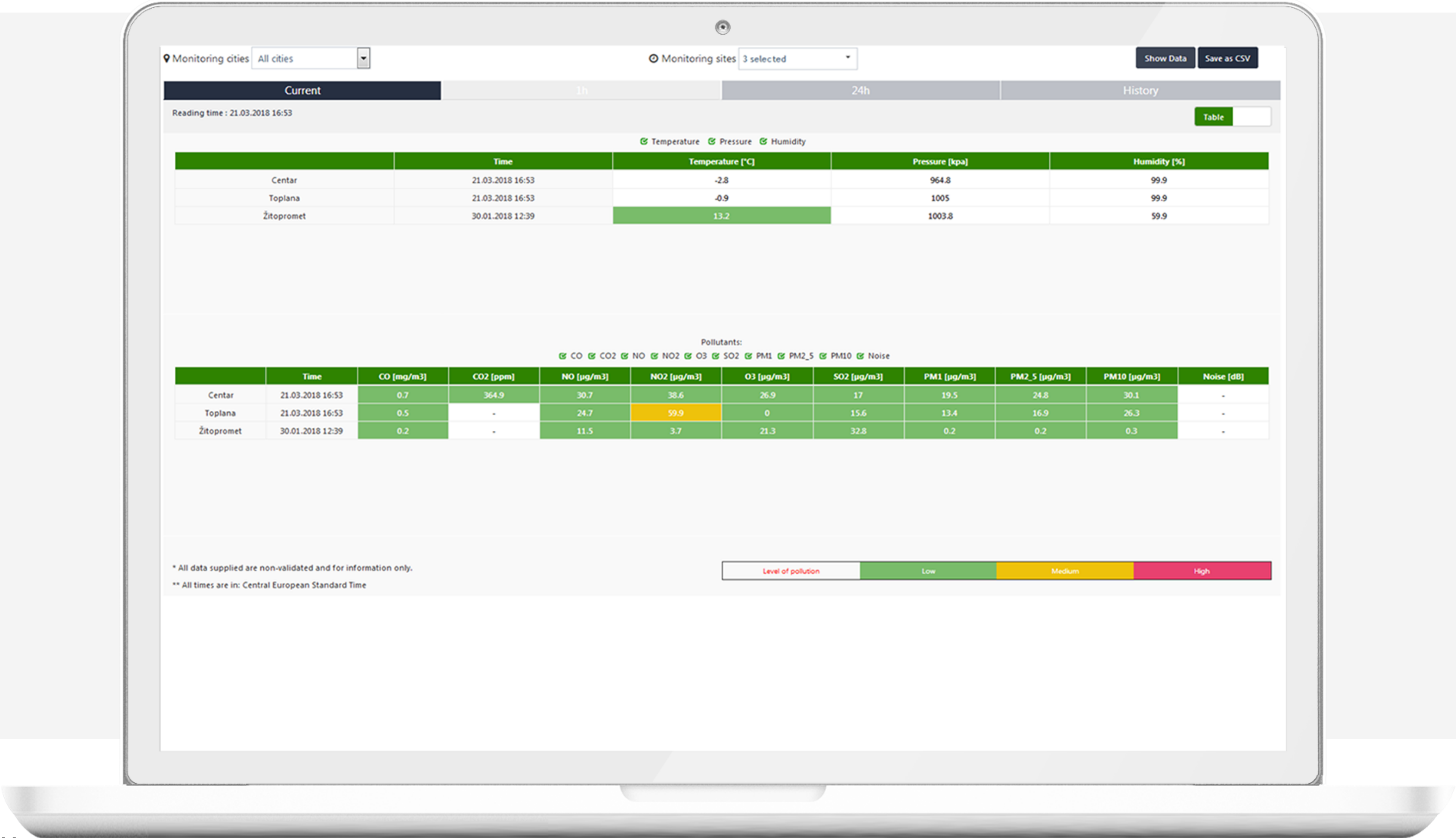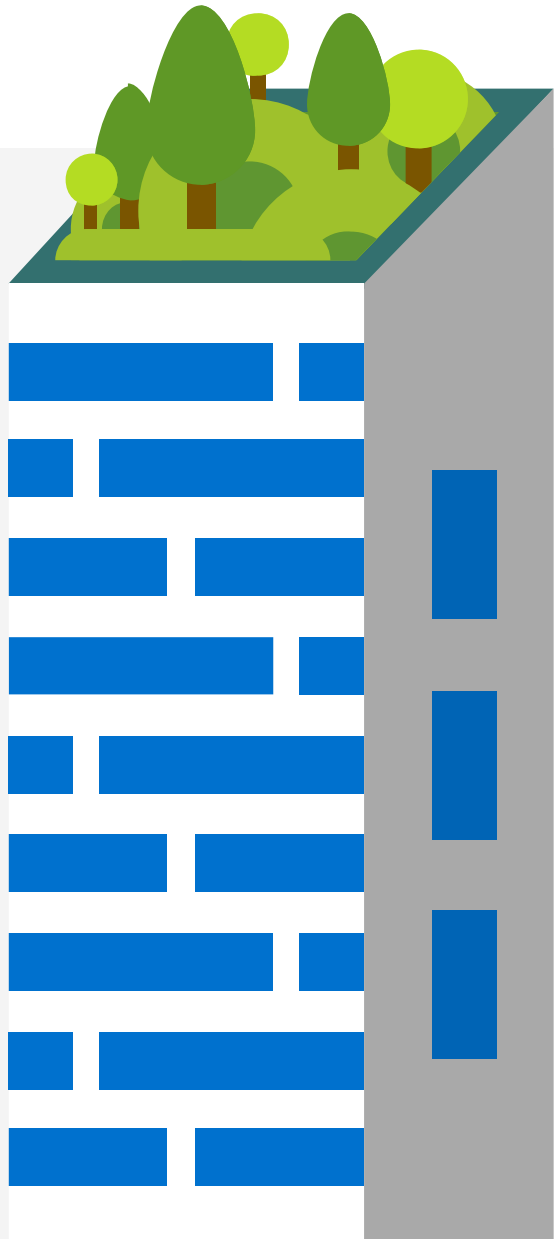- Export to CSV file (RAW, calibrated values, time, GPS ...)

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Data visualization

Data visualization

Data visualization

Notifications and alarms

ekoNET MORE • • •	CRITICAL VALUES
BUCHAREST - BUCHAREST	Temperature
DRONE MOBILE UNIT - STATION 2	CO2
AQ-TMOBILE0 - AQ-TMOBILE0	Temperature
AQ-TMOBILE6 - AQ-TMOBILE6	Temperature
AQ-TMOBILE7 - AQ-TMOBILE7	Temperature
AQ-TMOBILE8 - AQ-TMOBILE8	Temperature
AQ-TMOBILE1 - AQ-TMOBILE1	Temperature
RIYADH4 - RIYADH4	Temperature
AQ_BELIT1 - AQ_BELIT1	NO2

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CAQI – common air quality index

CAQI	NO2	PM 10 (1h)	PM 2.5 (1h)	CO	O3	SO2	CAQI-1	PM 10 (24h)	PM 2.5 (24h)	CAQI-2...
AQ_Belit1	>400	31	48.5	19.1	-	-	48.5	-	-	-
AQ_Belit2	20.4	31.7	42.7	52.8			52.8	64.5	52.3	64.5
AQ-TMobile0	-	17.3	21.6	-	-	-	21.6	37.2	40.3	40.3
AQ-TMobile1	-	0	0	-	-	-	0	0	0	0
AQ-TMobile10	-	3.7	6.1	-	-	-	6.1	21.4	27.7	27.7
AQ-TMobile2	-	3.2	5.4	-	-	-	5.4	20.3	26	26
AQ-TMobile3	-	0	0	-	-	-	0	0.2	0.2	0.2

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Administration

- Registration/update of access credentials
- User role privileges
- Monitoring sites
- Device parameter settin
- Alarms (SMS and emails

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More info:
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