![HawaDawa - The future of air quality management]

Air Quality Data for Integrators

Data and APIs to make applications eco-sensitive

Your Benefits

Provide added value to your application users by integrating current, historic or predictive air quality information

Comprehensive data for all main pollutants created from a variety of input sources (satellite, IoT sensors, public measurements)

Smart API functions for implementation of interactive use-cases

State-of-the-art technology, containerized and secure backend

Continuous enhancement of data quality and coverage through AI

Features

- Detailed data available for NO_2, Ozone, Particulate Matter ($PM_{2.5}$ and PM_{10}), and pollen

- Provision of current and predictive values for CAQI (European Common Air Quality Index)

- Germany fully covered, additional countries to follow

- Predefined AQ reports as well as filters available for analysis of historic data

- Interactive software features like hotspot detection, commuter alerting, eco-sensitive route calculation

- Comprehensive API documentation for simple integration into different applications (web, mobile etc.)

Three different APIs for best support of different use-cases

Real Time AQ API

serving e.g. citizen portals, consumer centred fitness and leisure apps or simple traffic management use-cases

Predictive AQ API

serving e.g. high-end eco-sensitive traffic management and routing, applications in health-care or consumer-centered - and commuter scenarios

Historic AQ API

serving e.g. real estate valuation scenarios, district development and a variety of auditing, research and risk-management use-cases

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Our experts are happy to provide you with tailored advice for selecting the most appropriate API to implement your desired use-case. Please also get in touch in case of questions regarding data availability, coverage and quality.

	Real Time AQ API	Predictive AQ API	Historic AQ API
Request Types	Point-/Line-/Polygon-related	Point-/Line-/Polygon-related	Point-/Line-/Polygon-related
Response Format	GeoJSON/JSON	GeoJSON/JSON	GeoJSON/JSON
Timely Resolution of Values	hourly	hourly	hourly
Pollutant Values[1]	NO_2, O_3, $PM_{2.5}$, PM_{10}, pollen	NO_2, O_3, $PM_{2.5}$, PM_{10}, pollen	NO_2, O_3, $PM_{2.5}$, PM_{10}, pollen
CAQI (European Common Air Quality Index)	✓	✓	
Hotspot Locations[2]	✓	✓	
Pollutant Trend	✓	✓	
CAQI Trend	✓	✓	
Pollutant Prediction		✓	
CAQI Prediction		✓	
Hotspot Prediction[3]		✓	
Exposure Routing		✓	
Alerts		✓	
Statistic Operations/Filters		✓	✓
History[4]			✓
Timeseries Generation			✓
Reports (PDF)			✓
Number of included Calls/Month	30.000	30.000	15.000
Developer Onboarding	1 hour webconference	1 hour webconference	1 hour webconference
Platform Support	by e-mail	by e-mail	by e-mail
Free Trial	2 weeks	2 weeks	2 weeks

[1] full coverage Germany, high resolution for NO_2, medium resolution for PM/O_3

[2] Currently available for NO_2 only

[3] Currently available for NO_2 only

[4] Hawa Dawa's Pollutant Information Archive provides data for a timeframe covering at least 24 months back.

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