

# Air Quality Data for Integrators

## Data and APIs to make applications eco-sensitive



### Features

- Detailed data available for NO<sub>2</sub>, Ozone, Particulate Matter (PM<sub>2.5</sub> and PM<sub>10</sub>), 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.)

### 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



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	Real Time AQ API	Predictive AQ API	Historic AQ API
<b>Examples for typical use cases</b>	<b>citizen portals, consumer centered fitness and leisure apps or simple traffic management use-cases</b>	<b>high-end eco-sensitive traffic management and routing, applications in healthcare or consumer-centered - and commuter scenarios</b>	<b>real estate valuation scenarios, district development and a variety of auditing, research, and risk-management use-cases</b>
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 <sup>1</sup>	NO <sub>2</sub> , O <sub>3</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , pollen	NO <sub>2</sub> , O <sub>3</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , pollen	NO <sub>2</sub> , O <sub>3</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , pollen
CAQI (European Common Air Quality Index)	✓	✓	
Health Risk Indices (Asthma and COPD)	✓	✓	
Hotspot Locations <sup>2</sup>	✓	✓	
Pollutant Trend	✓	✓	
CAQI Trend	✓	✓	
Pollutant Prediction		✓	
CAQI Prediction		✓	
Hotspot Prediction <sup>3</sup>		✓	
Exposure Routing		✓	
Alerts		✓	
Statistic Operations/Filters		✓	✓
History <sup>4</sup>			✓
Timeseries Generation			✓
Reports (PDF)			✓
Number of included Calls/Month	30.000	30.000	15.000
Developer Onboarding	1 hour web conference	1 hour web conference	1 hour web conference
Platform Support	by e-mail	by e-mail	by e-mail
Free Trial	2 weeks	2 weeks	2 weeks

<sup>1</sup> full coverage Germany, high resolution for NO<sub>2</sub>, medium resolution for PM/O<sub>3</sub>

<sup>2</sup> Currently available for NO<sub>2</sub> only

<sup>3</sup> Currently available for NO<sub>2</sub> only

<sup>4</sup> Hawa Dawa's Pollutant Information Archive provides data for a timeframe covering at least 24 months back.

