

INFORMATION ABOUT AN INNOVATIVE PRODUCT / SERVICE

1. Company name / contact person (phone number, e-mail)
SeaData Ltd. Phone:+48504756409 mail: mwenta@seadata.pl
2. Product / service name
Environmental monitoring system for industrial companies
3. Description of product / service functionality
<p>Offered product consist of three elements:</p> <p>1) Ground Based Monitoring of pollution: A number of devices equipped in sensors of PM10, PM2.5 and noise, installed in the area of interest based on our analysis of Client's needs. Usually, we install several sensor in the locations most vulnerable to pollution.</p> <p>2) Regular UAV (Unmanned Aerial Vehicle) missions, providing: -measurement of air pollution, including particulate matter, dangerous gases and other compounds -generation of detailed, orthomosaic maps of the surface We designed and created our own device: YetiAir, that measures PM10 and PM2.5 concentrations from drones.</p> <p>3) YetiSense system Advanced, AI based analysis of collected data, including -visualizations on the map (3D/2D) -interactive charts and data comparison features -custom report generation -email/sms notifications about the exceedances of allowable by law levels of pollutants in ambient air -data archive But that's not all, apart from data analysis we offer additional tools, including:</p> <p>a) Risk Assessment Tool- for risk of dusting prediction, as well as, risk of smog events, based o numerical weather prediction models results and pollution measurements.</p> <p>b) Simple modelling of pollution dispersion, based on 3D data from UAVs.</p> <p>c) Weather Analysis Tool- we issue warnings about weather conditions that might favor pollution accumulation and also enable analysis of collected data together with weather visualization.</p> <p>d) Real time visualization of the measurements from UAV, together with ground-based monitoring and potential mobile devices (e.g. in a car). All displayed simultaneously on the map.</p> <p>Altogether, our system collects a large amount of data that is delivered to our Clients in an easy to read and interpret format. Our products make it easier for our clients to plan ahead, avoid the costs associated with environmental pollution and prevent harmful events.</p>
4. The type of satisfaction of the needs of the target group and its definitione
<p>SeaData's ambition is to make the air and environment around us healthier. So far we have managed to create products that help accomplish two tasks involved in this goal: monitoring and smart decision making. Thanks to our services our clients can identify sources of pollution and biggest emitters, as well as, make plans based on extensive data analysis and numerical modeling. We want use all of collected data to make predictions, raise awareness and show industrial companies, that nowadays environmental monitoring is essential part as their business. As the desire to make environment around us clearer grows, products like ours will become more in</p>

demand. That's why we want to make it the best one on the market.

Furthermore, our products make it easier for companies to deal with environmental issues and run their businesses in sustainable way. Risk assessment tools, weather data-based features, automatic data analysis and other applications included in the system enable our clients to make smart decisions and lower costs related to environmental protection.

5. Indication of innovative features of the product / service solution

Increasing awareness of harmful effects of air pollution on people's health means increased number of companies focusing on the control of air quality increased as well. However, they do not provide both ground based and aerial surveys, which give a more comprehensive view of pollution distribution in the city. Furthermore, thanks to combining air pollution measurements with surface mapping we can identify the sources and paths of pollution dispersion and design numerical models. What is more, our unique analytical system cannot be matched by any other on the market.

☐ I agree to the free use and dissemination of information about an innovative product/service

Rafał Wolak

signature of the authorised person

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