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Business Domain

Agriculture

Project Type

Web Application

A Precision Agronomics Startup Created an App for Farmers against Climate-Related Natural Disasters Used in 4 Countries

Client

Agvesto offers parametric insurance protection to farmers and agricultural businesses against climate related natural disasters, including Heatwaves, Droughts, Hail, Floods, Wind/Hurricanes. Agvesto helps farmers to issue Green bonds and archive their sustainable development goals in Precise Farming.

Project

The mission of the Agvesto platform is to make the agricultural sector sustainable and to enable food security. Using the website application, farmers can get a quote easily, and the conditions are transparent. The cooperation between Agvesto and Intetics has been in place since 2014. It included developing and supporting websites and web applications for Parametric Insurance and Precise Farming.

Objective

Development of a web application for delivering insurance protection to farmers and agricultural businesses against climate-related natural hazards.

Team Reinforcement

The Client aimed to improve their existing website and develop a new web application. The scope of work required expertise and relevant experience. Intetics provided development resources based on the T&M engagement model.

Challenge

The Client was intent on creating an app for agronomic data consolidation. The database would make farm management easier.

The Client required a specialized information system that would contain the necessary data.

The data from various data providers had to be aggregated into a local database, analyzed and delivered to app users in a format that allowed for quick and streamlined decision-making in farm management.

Quick Facts

- ✓ 4 Countries covered
- ✓ Full process automation
- ✓ 100% app compliance with various platforms
- ✓ 7+ Years of continuous cooperation

Technologies

PHP / JS / SQL / Postgres / HTML / CSS /
Google Maps API / JIRA

Solution

★ 01

The developed website and web app gave farmers a helping hand in obtaining insurance coverage and in farm management.

★ 02

Intetics developed a database for aggregation of dissimilar data, automated the process of data collection and analysis, and developed a web application that could access the data.

★ 03

Data processing:

- Analysis of data quality
- Publishing cartographic information
- Aggregation of agricultural data from various providers
- Management of private user data.

★ 04

Subscriptions and reporting:

- Management of services subscriptions
- Management of farm parameters and other individual fields
- Helps manage reports

★ 05

Visualization and navigation:

- Visualization of farming indicators on a map, such as soil moisture, temperature, and rainfall
- Allows navigation within maps

★ 06

In cooperation with the Client, the Intetics team consolidated the system requirements and agreed on the overall app design. The technologies used for application development included JavaScript, jQuery, Bootstrap, and OpenLayers.



Client Reference



We are very thankful to Intetics for their active participation in the planning and development of our new product.

CEO

Benefits and Results

- ★ The developed application has been used successfully in 4 countries, where the market of precision farming is expanding: Ukraine, India, Sri Lanka, and the United Kingdom.
- ★ The application works flawlessly on all platforms and all devices, including mobile. Up-to-date data allows farmers to make informed decisions in farm management.
- ★ As the user base grows, the Client continues to rely on Intetics for support and the future development of the web application.