intetics

Where software concepts come alive™

Business Domain

A multi-disciplined company

Project Type

Multi-functional online platform that automates manual processes

Disaster-Response Platform Helps Electric Power Holding Company Contain Costs up to 20%

Client

Theorem Geo is a company that specializes in proprietary software development shoreline management, storm response, predictive outage modeling, meteorological impact analysis, vegetation management transmission and distribution, and unmanned aerial systems (drones).

Project

Developing an ecosystem where more than 10 user roles will communicate and work with each other. The primary product audience includes workers, drivers, managers, and more. Most of them are non-tech-savvy.

Objective

Creation of an automated, multi-functional, transparent platform to manage and coordinate thousands of employees and contractors after a disaster. Damage is assessed and reported through multiple sources, systems and means. The system can act as a single assessment repository providing an enterprise view of grid damage.

Team Reinforcement

The interaction between different users in the ecosystem was complicated and required a deep understanding of disaster response processes. The Intetics Remote In-Sourcing Team® started by analyzing all the roles, delved into the roles of each users, identifying unique functions and conducting interviews with end-users. The obtained insights served as a basis for the new ecosystem design.

Challenge

Serving the utility industry for over a decade, the Client deploys proprietary technology and platforms to solve challenging problems for businesses, utilities and governments. The Client's data-driven analytics help the industry automate and streamline regulatory compliance, operations monitoring, emergency response and other business challenges.

The Client had very aggressive timeline and complicated conditions for the project that required a special design and implementation approach to connect complicated interfaces together.

The Client chose Intetics because of the extensive expertise and a customer-oriented approach, as well as the right balance between business goals and user needs.

Quick Facts

✓ 45% of processes automated

✓ 20% reduce of cost

✓ 100% coverage of disaster response activities

✓ Cooperation of thousands participants via web and mobile apps

Technologies
.NET Core / Angular 9+ / Postgres + Postgis / Xamarin

Solution

★ **01**

The Remote In-Sourcing Team® created Disaster Response Suite that helps company management and field workers to coordinate their efforts during the storm. A Cloud server with web and mobile clients solved the main problem of system availability.

★ **02**

Streamlined collaboration between utilities, vendors, suppliers and responders in one system with web and mobile interfaces.

★ **03**

Direct and simplified communication of site and lodging assignments with all responders or any targeted sub-set of responders, whether native or nonnative crews.

★ **04**

Based on the archival data in the system, the Remote In-Sourcing Team® created an information management tool that visually tracks, analyzes, and displays key performance indicators. With this tool, the Client can align strategies and organizational goals.

★ **05**

Intetics' main goal was to make the user experience as simple and effective as possible, namely by making it easier for users to accomplish communication and collaboration goals.
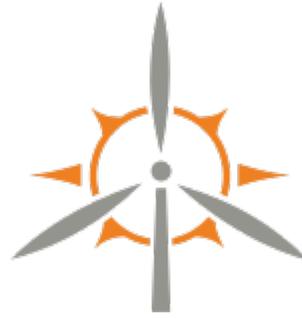
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Client Reference

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The multifunctional online platform developed with Intetics exceeded our expectations. The Team was able to integrate complex GIS components, database, and the notification system we required into a multifunctional web + mobile decision-making platform.

The Intetics team was able to perform in a changing environment and readiness to collaborate to resolve problems. Every member of the Team was attentive to our needs, professional, open-minded, and available to respond as needed. We will certainly work with Intetics on the other projects.

John Eddins, Founder and CTO

Benefits and Results

★ The convenient, user-friendly web and mobile application was built in cooperation with real users.

★ The application integration affected the processes' automation by 45% and allowed cutting costs on process management by 20%.

★ The system incorporates an ability to collect and analyze historical data, which helps managers align strategies and organizational goals.

★ The solution provides seamless, actionable guidance to all operational aspects for an event's leadership decision-making.

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Techstack:

.NET Core, Angular 9+, Postgres + Postgis, Xamarin

Team: 5+

Project Manager, Developers, QA Engineers