

Swedish  
multinational  
power company

# Wind Turbine Inspection Platform

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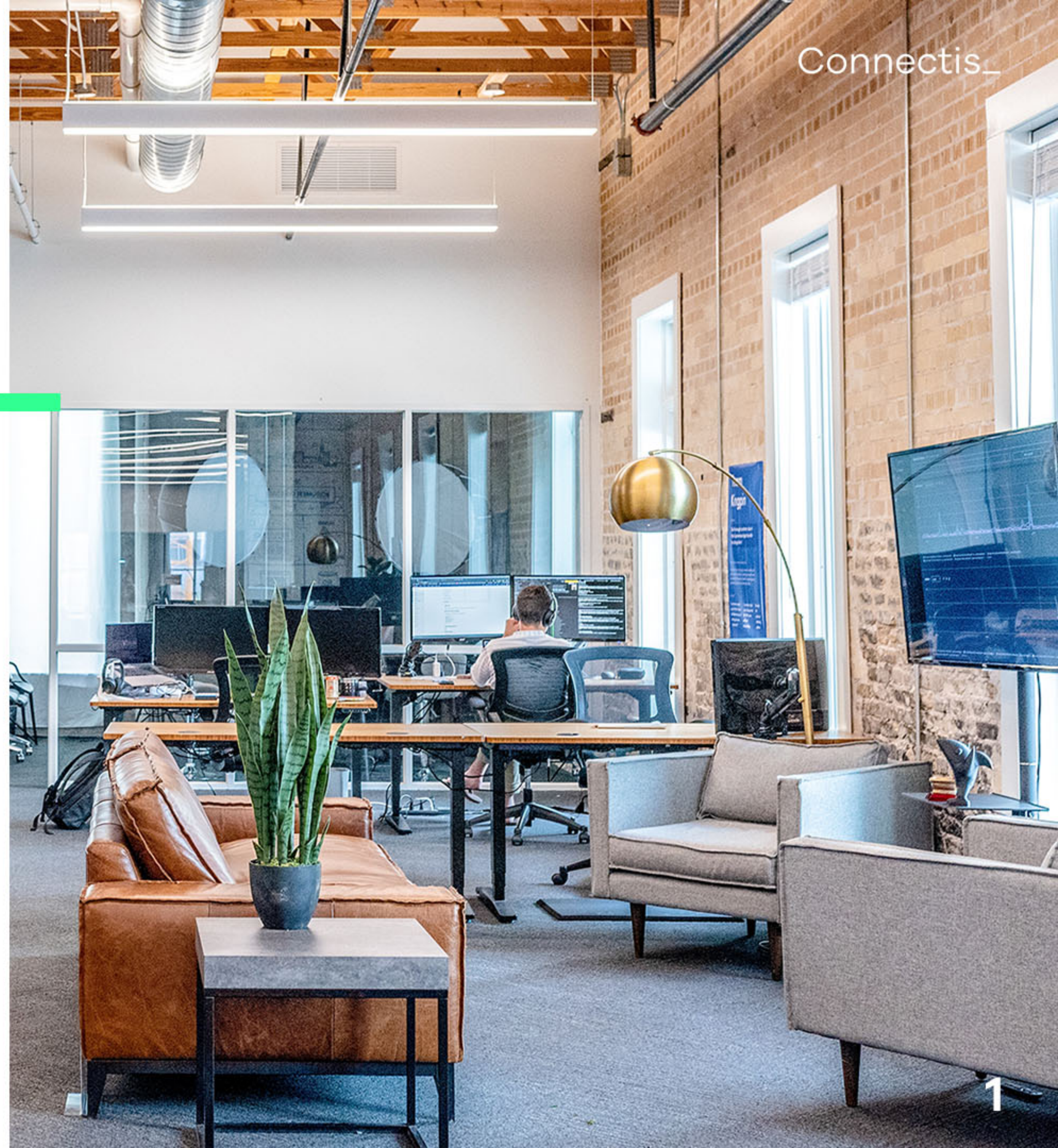
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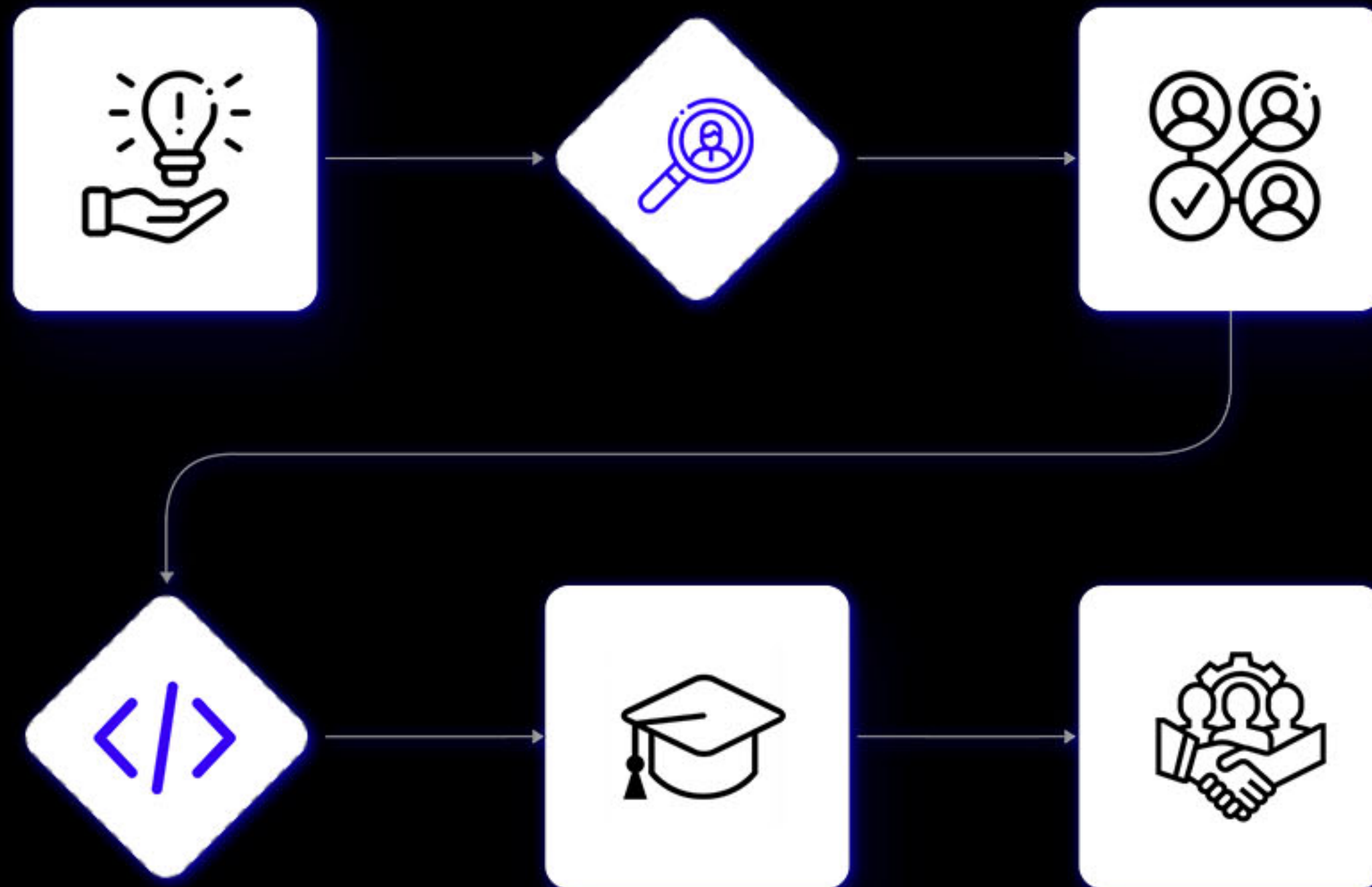


# Hello

**Our scandinavian client, one of the biggest energy providers in Europe, who worked with us previously in the Body Leasing model, asked us to build a tool for supporting the process of turbine inspections on wind farms.**

Below you can read about how we completed this project.





# Project's Goals And Objectives

**Our client needed to build a tool for supporting the process of turbine inspections on wind farms.**

The application was to be used by inspectors both during their field inspections and in standard office conditions to process notifications regarding advanced (multi-level hierarchy) turbine components.

# The Team

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**To meet the challenge, we have completed a team of experts connecting people with various technical competences.**

After the client provided us with the initial requirements, we were able to build the team core in a month and in October 2018 we begin working on the project.

Two Frontend Developers, two Java Developers, UX Designer, Product Owner, Scrum Master and Quality Assurance Engineer have been involved in the project.





# Project Stages

**The project was implemented in an agile model, so as to be able to respond to the requirements that change over time and constantly updated.**

We were equally flexible in the composition of the team, whose size and competence were adjusted during the project, e.g. by including Scrum Master or UX Designer.

We based the application on the following technologies (including client guidelines): Java 8, Spring Boot 2, Hibernate, JPA, React, Redux, Azure SQL, Azure App Services, Indexed DB, REST API, OAuth2 and Azure Active Directory.

# Challenges

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**Such a large project usually brings additional challenges. In the described case, our team had to face the limited availability of the Product Owner and effectively communicate with many stakeholders on the side of our partner.**

In addition, we had to adapt to the customer's precise technological requirements. They always have a significant impact on the time required to complete the team and the application architecture.





The system itself, due to its level of complexity, required many creative solutions. For example, to enable the application to be used during inspections, we've introduced voice notes.

We also created an offline mode, thanks to which inspectors' devices had access to the required data from the central system (so-called master data), and their synchronization took place after gaining access to the Internet.

An important aspect was also the compatibility between various devices and operating systems: web browsers, iOS and Android systems.



# Results

**Despite numerous challenges, the functionalities required by the customer were implemented and the application was put into use by inspectors.**

After a smooth transfer of project documentation at the end of 2019, client took over the further development of the product and is in the process of expanding it with additional functionalities.

Number of services turbine: **100+**

Number of partners using the platform: **25+**

Number of users: **50+**

