Capgemini

MySmartFarm

Overview

Farmers and the food supply chain industry face new challenges and opportunities every day, right from meeting the needs of ever expanding global demand, managing the impact of unpredictable weather conditions to managing contract workers, etc. To add to these, meeting strict buyer quality requirements and improving crop yield has always been a tough ask.

CHROME
CENTER OF EXCELLENCE FOR AUTOMOTIVE & MANUFACTURING

Capgemini's CHROME Center of Excellence has leveraged Sensors, Artificial Intelligence, Drones, Bots and Blockchain, to create Smart Farming Suite for fulfilling sustainable farming needs. This solution stack is focused on increasing crop yield while improving visibility in the contract farming segment.

Solution details

The **MySmartFarm Suite** offers the following capabilities:

Soil Condition Monitoring

Using IoT, the solution helps to capture soil condition parameters such as soil moisture, temperature, nutrition values and correlate them with weather conditions. It 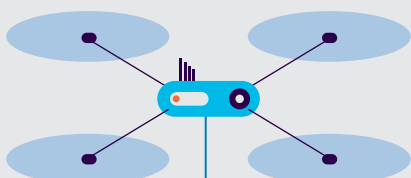helps farmers to optimize conditions for maximum yield, by triggering real-time alerts for any threshold violation and thereby allowing corrections.

Crop Condition Monitoring

Drones flying over the farms capture farm conditions in videos which are analyzed by an Artificial Intelligence engine. It helps to analyze and notify farmers of harvest ready crop and any potential losses in the crop due to several anomalies. Farmers can increase crop yield based on insights from the analysis of collected data.

MyFarmLedger

MyFarmLedger, a Blockchain application, keeps all the records of critical parameters such as soil moisture, temperature, and nutritional values throughout the lifecycle of crops in the Contract Farming ecosystem. This shared ledger of field events increases visibility and trust between farmers and buyers in Contract Farming.

MyFarmPal

MyFarmPal is a AI based bot assisting farmers which the farmer can access from smart phones or web applications. It helps farmers with queries related to productivity, next steps, besides providing notifications on anomalies detected by the Artificial Intelligence engine. The farmers can interact with this innovative 'pal' to get information about soil, weather, and crop conditions

Business Benefits

- Increased crop yield due to insights from analysis of data collected from soil, drones, weather and contextual information for taking decisions in the field

- Increases visibility and trust between farmer and buyer in Contract Farming due to digitization and validation of contract farming without manual intervention

- Reduced losses due to ability to closely monitoring crop throughout its lifecycle and take corrective actions

About Capgemini

A global leader in consulting, technology services and digital transformation, Capgemini is at the forefront of innovation to address the entire breadth of clients' opportunities in the evolving world of cloud, digital and platforms. Building on its strong 50-year heritage and deep industry-specific expertise, Capgemini enables organizations to realize their business ambitions through an array of services from strategy to operations. Capgemini is driven by the conviction that the business value of technology comes from and through people. It is a multicultural company of 200,000 team members in over 40 countries. The Group reported 2016 global revenues of EUR 12.5 billion.

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