MSU

MOBILE SERVICES UNIT

Company Name: Whitepark Engineering

Funding: EI Innovation Voucher

Whitepark Engineering Limited is a product design and engineering company. Their first product, the award winning FarmFeeder (Trade Mark), is an innovative automatic feeding system with phone control. It is a fully portable device, uniquely constructed and will operate in sub-zero temperatures.

PROJECT DESCRIPTION

Technical analysis of sensors, android devices and back-end big data technologies to capture and analyse climate readings

PROBLEM TO BE SOLVED

Android devices are becoming cheaper and users upgrade their phones every couple of years. In general users do not have a use for their old devices and either recycle them or leave them idle. Whitepark Engineering have identified that these devices could be used to capture environmental readings to provide crowd-sourced data which could be captured in a central data store and analysed to provide useful information related to several concepts such as predicting short term weather changes to influencing advertising. However Whitepark Engineering do not have the technical expertise to design a suitable scalable system to achieve their vision.

HOW GATEWAY DELIVERED SOLUTION FOR INDUSTRY

TSSG draw from We research the latest, cutting-edge external sensor options for connecting to android devices. The different scenarios of identifying power sources, reducing power consumption of the device and other aspects were taken into consideration. Through leveraging TSSG's expertise in data driven services, to analyse the various options For the big data architecture.

TSSG produced a state of the art document which was delivered to outline these options and our recommendations.
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IMPACT FOR THE COMPANY

The technical analysis report provided Whitepark Engineering with an overview of the various technology options available to create each component of the back end system. Detailed information about the sensors available in Android devices as well as some 3rd party sensors a recommended architecture to achieve their requirements.