

SUCCESS STORY

Agricultural management satellite solution

Software Factory
(UX/UI, DEV, QA, DBA, DevOps, Support and Maintenance)

LOSGROBO

+

 lamansys



Our client in numbers



**38 Years
of Experience**



**260 thousand
hectares monitored**



**2 TB of monthly
Satellite Data**



**160 representatives in
37 different branches**

Challenge 1

Integrated Agricultural Platform for Crop Management

The Los Grobo Group contacted us to develop a new platform capable of **visualizing and managing incidents related to various factors in pastures, fields, and crops**. The goal is to provide clients with new services and offer a flexible, easy way to manage their sales department.



Challenge 2

Weekly Productivity Monitoring and Measurement through Automated Satellite Image Generation

The provided information should enable clients and sales departments to monitor **crop types and health, productivity**, and other relevant information.

We were also requested to automatically **generate information/data on a weekly basis by processing satellite images** covering an area of over 2 million hectares (4,942,100 acres) in the country



Proposal 1

Mobile and Web Solution to broaden the Application Access

We proposed to develop a mobile solution for Android and iOS, along with a web application that would enable clients and sales departments to **create, mark, and visualize pastures, crops, and fields with a georeferenced view**. Users can also access information provided by satellites.



Proposal 2

Data Management by Tiers for Future Productivity Enhancement

To assign different roles for the company and farmers, we suggest implementing a management system that ensures proper interaction with the application and the provision of data and information. It should be displayed and outlined in an **intuitive and user-friendly interface integrated into the platform**, allowing users to input, create, and edit field boundaries at a specific location on the map.



Proposal 3

Easy Data Visualization for Quick Detection of Issues on the fields

After defining and saving the surfaces; indicators and crop health values would be displayed for different areas, **enabling the detection of issues and identification of less productive areas.**



Solutions

The application design focuses on the user experience by considering perspectives across the entire company



Management of NDVI, SAT, and PPI indicators to identify and monitor the quality of productive areas



Improvement in decision-making and strategy for all farmers in Los Grobos



Provides users with easy tools to search, position, measure, and analyze fields



High accessibility deployment to provide users access on both web and mobile platforms



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