

### **Initial review/Introduction:**

Everlast Agro B.V. is one of the largest crop producing businesses in The Netherlands. Currently, due to the pandemic and current resources they are experiencing issues with their monitoring systems and the efficiency of their processes. The initial review based on the information provided will be listed below.

After reviewing all documentation provided stating the problems Everlast Agro B.V. and all the interviews conducted, it is clear that Everlast Agro can use some technological advancements and improvements to improve and restructure their day-to-day operations. Gathering intel from the interviews, a conclusion can be made that not only are the manual outputs of the workers taxing and stressful, especially in the middle of the pandemic, but it is also stressful to the management of the company due to the lower output and a potential loss for that month.

### **What are the issues?**

- Workers must manually check all the sensors for each greenhouse and conduct calculations to figure out whether or not the crops need further attention which leads to a longer wait time before the crops can be tended to. This can lead to further damaged crops and a lower output with a higher cost leading to a loss for the company.
- Management members are unable to review the statistics of each greenhouse and have to rely on the workers' calculations to receive feedback and data on the produce. This can lead to a delay in management work such as predictions for revenue based on the performance and outputs conducted day-to-day.
- Human error is always a factor. There are high chances where miscalculations are made, and crops may suffer as a result. Therefore, having an automated system that tracks the overall environmental factors and instructs workers on what to do in the event that the crops are not doing well is vital.
- The company that designed the current system no longer exists and efficient documentation is not present to be able to make changes to the current system. This brings about other issues such as the potential need for a new system which will be very expensive.
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### **What can we do before we find solutions to the issues listed above?**

- It is important to figure out cost effective solutions to the problems listed above. Therefore, consulting the company and receiving a preferred budget for the potential new systems is a must.

### **Stakeholder analysis:**

- Frustration 1: Management cannot review the statistics of the greenhouse without waiting on employees to conduct a manual calculation of all the environmental readings in the greenhouse which consumes time.
- Frustration 2: Due to the current COVID-19 pandemic, management wants to let their workers work from home and monitor the systems from home but cannot due to the fact that there has to be someone present inside of the greenhouses to conduct calculations.
- Frustration 3: Management cannot show data to potential clients when pitching to them without waiting on the readings from employees conducting their calculations.
- Frustration 4: Human error is possible when conducting manual calculations which can lead to damaged crops and a loss being made.

What are the solutions that can be made to correct the issue

- A new system is a potential solution to the issue. The new system must have the environmental factors and check for each greenhouse and the overall environmental factors as well. The new system would also be preferred to include an alert system to notify workers if something is not right with the crops and provide instructions on how to correct the issue. The system should allow for remote access to the data of the crops, environmental readings and recent issues that have been corrected by the workers.

References:

[Interview 1](#)

[Interview 2](#)

[Interview 3](#)

[Survey Results](#)