Version: 1.3



Company E (AGCO)

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SEMP

Document revision history

Rev.	Date	Change description	Creator
1.0	2023-02-22	Created the SEMP document. Added the preliminary	Everybody
		Planning, Decision Management and Risk Management.	
1.1	2023-03-22	Revision control added	Lasse, Tobias
1.2	2023-03-29	Updated time plan	Lasse
1.3	2023-04-12	Added terms in terms of risk mitigation	Lasse and Oliver

Document review history

Rev.	Date	Review group
1.0	2023-xx-xx	####

Planning

Project deadlines

- Working prototype: June-August

- Final product production ready: July

Name different responsible persons for different tasks

Tasks/Roles:

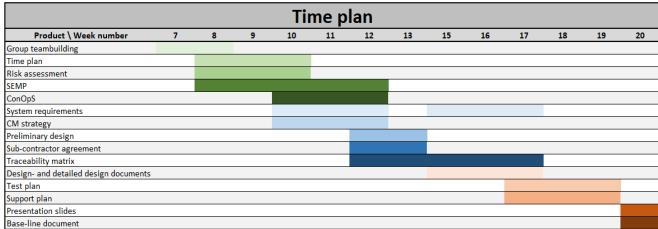
- Moderator (responsible for controlling group meetings)
- Coordinator (responsible for getting an overview of what should be discussed in the meeting beforehand)
- Referent (responsible for summarizing meetings)

Timetable:

Meeting date	Moderator	Referent	Coordinator
15/02	Oliver	Michael	-
22/02	Oliver	Anisa	-
01/03	Tobias	Claes	Lasse
08/03	Lasse	Tobias	Oliver
15/03	Michael	Lasse	Tobias
22/03	Anisa	Michael	Lasse
29/03	Julia	Anisa	Michael

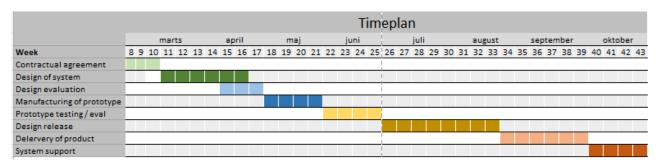
12/04	Claes	Julia	Anisa
19/04	Henrik	Oliver	Julia
26/04	Dilan	Henrik	Claes
03/05	Alexander	Dilan	Henrik
10/05	Kuang	Alexander	Dilan
17/05	Shivaram	Kuang	Alexander
24/05	Oliver	Shivaram	Kuang
31/05	Tobias	Oliver	Shivaram
07/06	Lasse	Tobias	Oliver
14/06	Michael	Lasse	Tobias
21/06	Anisa	Michael	Lasse

Timeplan for us:



^{*)} The above time plan may be subject to revision if deemed necessary.

Timeplan for customer:



Name different responsible persons for communicating with stakeholders

Stakeholders:

- AGCO (responsible for communication with AGCO): Michael
- Own group (responsible for coordinating meetings, communicate with subgroups): Oliver
- Group D work for them / review their work (responsible for communication): **Tobias**
- Group G subcontractor (responsible for communication with group): **Dilan**
- Stefan Lecturer (responsible for hand-ins): Claes

Assessment and Control

- To be done

Risk Management

Here we will discuss the high-level risk that we think we will encounter during the product development.

Problem	Description	Effects/Impacts	Risk mitigation	Risk Evaluation
People not delivering	People do not deliver a specific piece of work that was promised	It will delay the people relying on that piece of work. It can create internal conflicts	Good internal communication.	Internal: low likelihood and high consequences. External: medium likelihood and medium consequences
Bad communication	Both internal and external communication fails. People in our company will be waiting on work or instructions. Miscommunication with AGCO leading to wrong specifications.	Project delay. Project fits the wrong specifications, or they might have changed. Project cannot be delivered.	Good structure. Having people responsible for communication with different stakeholders.	Medium/low likelihood and high consequence.
Lack of technical knowledge	Very specific technical requirements that this company does not have the technical knowledge to fulfil or know if they are realistic.	Project fails. Product might not live up to specifications/ expectation	Outsource work to other companies.	High likelihood and low consequence.
Lack of project experience	No one at the company has much experience with this type of work, so the company finds it hard to know what is expected of a SEMP and how to proceed most optimally.	Organizational problems. Unrealistic internal deadline.	Attend class and research topic.	High likelihood and medium consequence.

A more comprehensive risk management cannot be done before we have established contact with the company we work for (AGCO).

Decision Management

Purpose of decision management

The purpose is to ensure that AgroxTech selects the most beneficial course of project actions where alternatives exists.

Operations

We do so by implementing "decision gates", which are to be considered approval events in our schedule. For each gate, we specify entry and exit criteria, and define the time where they are included into the project management baseline.

Decision analysis

During each decision gate, we will apply decision analysis, which is a systematic approach for selecting the optimal choice among a set of alternatives when faced with uncertainty. This approach employs a probabilistic assessment of potential outcomes associated with each alternative and calculates the expected value of the outcome to determine the optimal choice.

To execute our decision analysis, we will be guided by the following 10 principles:

- 1. Gain a comprehensive understanding of the business situation by gathering relevant information and analyzing it systematically.
- 2. Utilize a value creation framework to identify and assess potential opportunities and use this lens throughout the decision-making process.
- 3. Establish clear and specific objectives and make the trade-offs that must be made, in order to achieve them, explicit.
- 4. Conduct a thorough investigation to uncover and formally frame the underlying problem(s) that need to be solved.
- 5. Generate a range of creative and unique alternatives that have the potential to address the identified problem(s).
- 6. Identify and consult with relevant experts in order to gather meaningful and reliable information, and to assess the feasibility and potential impact of proposed solutions.
- 7. Recognize and embrace uncertainty as an inevitable part of the decision-making process and use it as a catalyst for improving future performance.
- 8. Avoid getting stuck in "analysis paralysis" situations by setting clear deadlines and decision criteria, and by prioritizing action over analysis when appropriate.
- 9. Apply systemic thinking to develop a holistic understanding of the current situation, and to identify the key factors that will shape future outcomes.
- 10. Foster learning and clarity of action by engaging in productive dialog with stakeholders, seeking feedback and input, and encouraging constructive debate and discussion.

At last, we will be using decision trees to evaluate alternatives. An example of a decision tree can be found below:

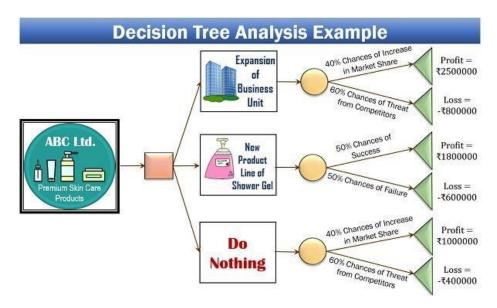


Figure 1: decision tree example.

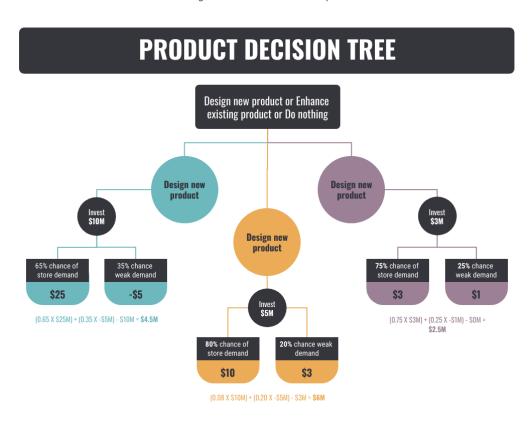


Figure 2: decision tree example.

Configuration Management

Configuration Management Strategy

Requirements needed facilitated:

- Version Control

Tools:

- Git (Version Control)
 - Files are stored on Git-Hub using Git as version control. The protocol for editing a file should aim to be:
 - Pull desired file
 - Make changes to the file
 - Commit the changes with a descriptive message of performed changes
 - Push the changes to main branch

Information Management

- To be done

Quality Management

- To be done

Contributions

Date	Contribution	Contributor
2023-02-22	Decision management	Alexander, Henrik,
		Shivaram, Liulihan
2023-02-22	Timeplan	Lasse, Claes, Oliver,
		Tobias
2023-02-29	Configuration	Anisa, Dilan, Michael
	Management	
2023-02-29	Risk management	Everybody