



[use-case title]

[date]



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Executive summary

Please provide a short overview of the use-case and why it is relevant for the AIPlan4EU project



1 Context [~1 page]

Please describe the context of the use-case (use pictures if possible/useful to clarify the situation):

- Which is the application domain?
- How are the operations handled currently? Is there an established workflow?
- What are the drawbacks of the current solution (if any)?

2 Planning Application [~1 page]

Planning is a technology that helps you in automating or optimizing some decisions given a predictive model of a system / situation. Here we need to clearly identify the key decisions that should be automated/optimized in the use-case. Also, a storyboard of how planning is used within the workflow shall be presented.

- What are the key problems that you plan to address with planning technology?
 - Highlight which kind of decisions shall be automated or optimized
- How do you measure the quality of such decision/automation? Why is the status quo not satisfactory?
- Which kind of data is relevant for taking the decisions to be automated /optimized?
 - Highlight what is “constant” (i.e., it does not change between successive decisions) and what is “contingent” (i.e., non-predictable data that is important to take an informed decision)
- How often is planning invoked? Which actor/software/rule invokes the planning?
 - E.g., planning is done once a day to decide the shift activities
 - E.g., planning is triggered when a discrepancy is observed w.r.t. the planned course

3 Impact [~ 1 page]

3.1 Business Impacts

- What are the business impacts of automating/optimizing the decisions?
- How does the quality measure defined in the previous section map to the business? E.g.:
 - by automating the picking from shelves, we can reduce the operational costs by ...
 - by optimizing the management of agricultural practices, we can reduce soil compaction that is bad because...)
- How do you define a satisfactory measurement from the business perspective? (e.g., we aim at reducing soil compaction by 10% because...)

3.2 Other Impacts

- Is there any other impact besides business? E.g. environmental, societal...

4 Measures of Success [~1 page]

Describe how, concretely, one can measure the success of a planning integration in this use-case.

- KPIs: what are key indicators and their thresholds?
- Expected performance: computational speed, solution quality...
- How can one make these measures?