# DDHT project progress reporting 2021

*Fill in this template to report on the progress of your DDHT project in 2021, using the workplan as submitted in the beginning of the year as basis. More information on the reporting procedure can be found in* [*this memo*](https://sharepoint.wur.nl/sites/wdcc/ddhtprog/_layouts/15/WopiFrame.aspx?sourcedoc=%7bC295BF27-90DD-4F43-A9BB-61A73A92AE53%7d&file=Memo_progressmeetingprocedureDDHT2020.docx&action=default)*.*

1. *Project title*

*Automated Breakdown Analysis*

1. *Project leaders*

*Paul van Leeuwen*

1. *Budget spending*

Indicate the budget spending at time of the progress meeting and your expectation for the end of 2021. Note the NAPRO policy for KB-projects, i.e. NAPRO is only possible in very rare circumstances, and never without involvement with PLs and DDHT coordinators ([see the memo](https://wageningenur4.sharepoint.com/:w:/r/sites/WageningenDataCompetenceCenter/ddhtprog/Shared%20Documents/e)%20Evaluation/templates%20progress%20monitoring%202020%20and%20workplans%202021/Memo_progressmeetingprocedureDDHT2021.docx?d=w6ed58e167d434c1bb408dc5fc2bd7e38&csf=1&web=1&e=bIdNCD)).

At the moment of writing we have spent 72% of the total budget of € 22477. No NAPRO is expected.

1. *Progress on deliverables*

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| --- | --- | --- |
| **Planned deliverables for 2021**  **(from workplan)** | **Products realized in 2021** | **Explanation for any deviations** |
| 1. An automated cost pricing calculation method for French-fries potatoes consisting of analysis software (algorithms and scripts to have the data from the FADN interpretable and usable for research). The calculation method is amenable for generalisation towards other products from both arable farming and other sectors. 2. Follow-up plan on how the automated method can be further developed. | 1. Methodology description is finished. | First the analysis software needs to be implemented before we can make a proper follow-up plan for then we know what to further develop. The implementation is not yet done as we are dependent on Team Blauw of the OpenUp programme. |
| *-If possible indicate spin-off deliverables that were completed that were not described in the workplan-* |  |  |

1. *Contribution to the 4 pillars of the DDHT programme*

Please describe the overall activities and results over the year 2020 in connection to how they contributed to the 4 pillars (see also [the DDHT programme plan](https://wageningenur4.sharepoint.com/:w:/r/sites/WageningenDataCompetenceCenter/ddhtprog/Shared%20Documents/a)%20General%20Information/2019/E.%20Data%20Driven%20High%20Tech.docx?d=wda62f76e63f240a49df481b51a20003f&csf=1&web=1&e=5oUkyj)). (Can be partly copied from previous workplan.)

If relevant, indicate deviations from the activities as described in your submitted workplan and provide contexts for the changes that were made.

|  |  |
| --- | --- |
| *Pillar* | *Activities & results* |
| Explainable AI and data driven  analytics | Time series can be automatically analysed using sophisticated machine learning techniques. That results in advanced analyses that can be fully explained. |
| Robotics & decision support |  |
| Shared data infrastructures | This tooling is embedded in the WUR OpenUp programme, resulting in sophisticated dashboarding of a variety of many datasets. |
| Society & business aspects | Developments in time series can be deeper analysed, such as what causes a jump in the cost price. Furthermore, indicators that hint at a crisis, such as the corona crisis, could act as early warning signals. |

1. *Impact*

Meeting so far between the two project participants (Jamal Roskam and Paul van Leeuwen), the members of the OpenUp programme, and sector experts.

1. *Lessons learned for the remainder of the programme*

Everything went as expected. We intend to collaborate with sector experts next year.