



Transform4.0 Study visit Netherlands 2022

The study visit (D.T.1.1.4 and D.T.1.1.5) to the Netherlands, especially Wageningen, took place from 02nd to 05th of May 2022 and was organized by the project partner (PP3) HBLFA Francisco Josephinum (FJ). Seven people from four countries participated at the study visit:

- Reinhard Streimelweger (HBLFA FJ, AT)
- Peter Riegler-Nurscher (HBLFA FJ, AT)
- Helmut Steinkellner (HBLFA FJ, AT)
- Luca Masiero (CREA, IT)
- Péter Bodor-Pésti (MATE, HU)
- Déak Tamas (MATE, HU)
- Jurij Rakun (Uni Maribor, SLO)

The program consisted of visiting University Wageningen and Research (WUR), several companies and start-ups involved in precision farming. In particular, the program of the tour was:

03.05.2022	Tuesday
09:00 - 12:00	<p>Wageningen Plant Research/Agrosystems Research/Groups - University of Wageningen (WUR) Adress: Droevendaalsesteeg 1, 6708 PB Wageningen</p> <ul style="list-style-type: none"> - tour around university - Agrosystems Research - University of Wageningen - Farm Technology Group - University of Wageningen <p>Networking WORKSHOP to transfer <u>best practices</u> (within the Transform Deliverable D.T1.1.5) attended by FJ and Agrosystems Research Wageningen</p> <ul style="list-style-type: none"> - innovative ideas about <u>teaching practices</u> from farm technology group - other <u>projects</u> from information technology and farm technology groups
14:30-17:00	<p>Kubota/Kverneland office and Kubota ICE - Innovation Center for Europe Adress: Hoofdweg Oostzijde 1264, 2153 LR Nieuw-Vennep, Netherlands</p>



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04.05.2022	Wednesday
10:00 - 12:00	Aureaimaging Address: Nijverheidsweg 16b, Utrecht, Netherlands, 3512 BR
14:00 – 17:00	WUR Address: Droevendaalsesteeg 1, 6708 PB Wageningen <ul style="list-style-type: none"> - Start life (https://start-life.nl/) - Project Computer Vision Ph.D. Joseph Peller. (https://www.wur.nl/nl/Personen/Joseph-dr.-JA-Joseph-Peller.htm) - S3 Manager consultation

05.05.2022	Thursday
09:00 – 12:00	Farm of the Future (https://farmofthefuture.nl/en/) Address: Edelhertweg 1, 8219 PH Lelystad

Day 1 - 03.05.2022:

1. WUR:

After an introduction of Wageningen University & Research (WUR) by Ms. Anne Mensink, there was also a short tour of the campus.

Regarding the tech transfer system in the Netherlands, we for example learned that:

- since 2000, much of the education and research has been concentrated at the WUR campus. There are 20 other locations across the country which are related to WUR.
- At Campus WUR itself there is a start-up accelerator "StartLIFE" and a student incubator "StartHUB" as well as a separate program for spin-offs for researchers.
- About 200 SME are located at the WUR campus.
- There are still own Business and Science Parks in the Netherlands.



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From a university perspective, department head Prof. Peter Groot Koerkamp gave an insight into the projects of the FTE Group (Farm Technology Group). In the area of PF, education is multidisciplinary and a link between teaching and business is important. In the field of PF, there are big differences among farmers. There needs to be a phased approach to the application of new technologies, and often initial investments in technology are too high.

This was followed by a fascinating discussion with Dr. Córne Kempenaar from WUR Research side. Why the topic of PF does not find a faster and larger application in practice is manifold. Often there is a lack of clear vision and structure. Since 2005 PF is a topic among Dutch farmers, especially since the affordable use of sensors. The average farm in the NL is about 100-120 ha.





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2. KUBOTA:

In the afternoon, we visited the Kubota Innovation Center for Europe in Nieuw-Venep. CEO Peter Van der Vlugt gave us an interesting insight into Kubota's fields of activity and their cooperation with start-ups and WUR. An interesting tour of the production site with Peter van der Vlugt and a concluding discussion rounded off day 1.





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Day 2 – 04.05.2022

3. Aurea Imaging

In the morning we met CEO Bert Rijk from Aurea Imaging in Utrecht.

The company Aurea Imaging deals with drone flights and phenotyping with focus on fruit growing. The start-up now employs 21 people and offers its services not only in Europe but currently also in Africa and South America. The company's goal is to support fruit growers in their management and to reduce the amount of pesticides used in the orchards.





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In the afternoon we had three meetings at the WUR campus:

4. Start Life Accelerator

First, Caroline Bijerk from WUR's Start Life Accelerator gave us an insight into its activities and explained how they are supporting young entrepreneurs.

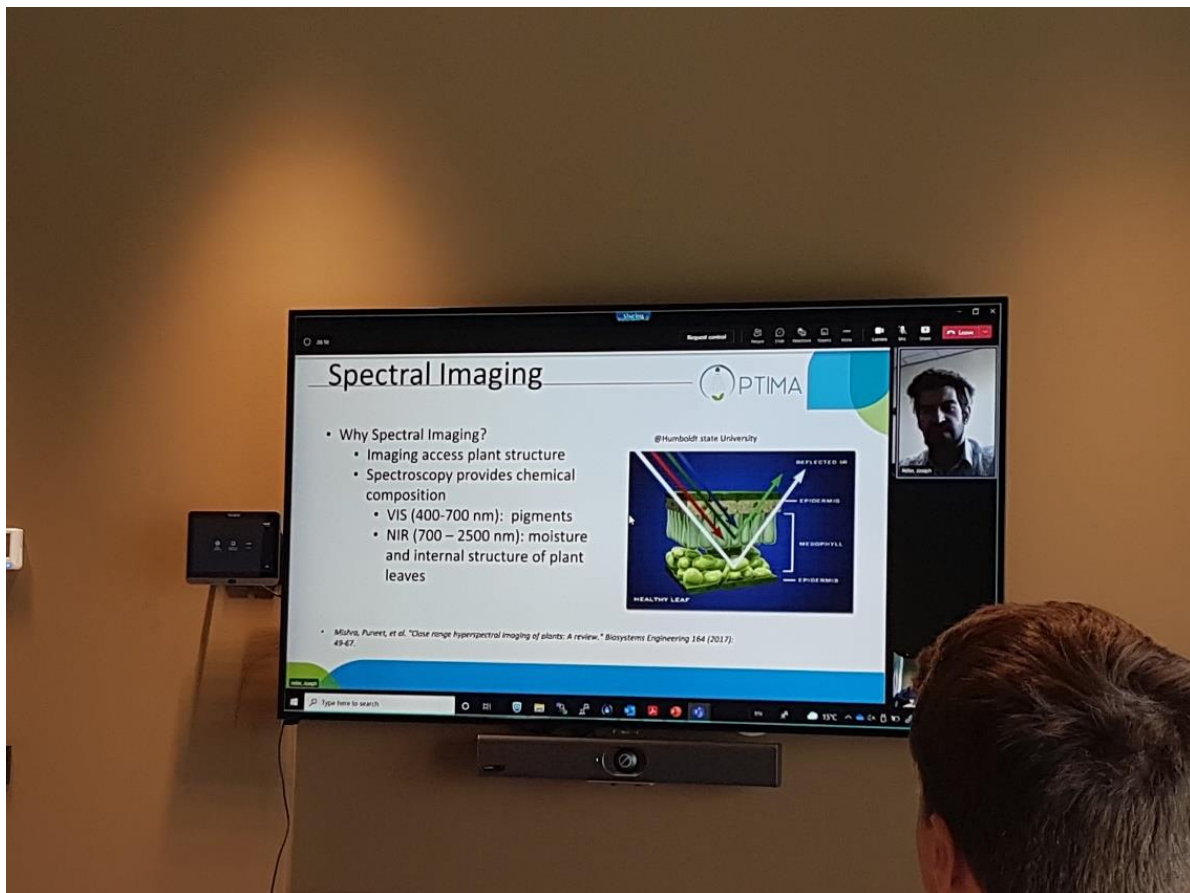




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5. EU Projekt OPTIMA

Second, Joseph Peller Ph.D presented the EU project OPITMA and the role of Prediction Models and detection. Here, the plants health status and was monitored in order to reduce the amount of pesticides in agriculture.



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6. S3 Manager Consultation

As third and very interesting point on day 2 we met the S3 Manager Reinier Zweers of Gelderland.





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Day 3 – 05.05.2022

7. Farm of the Future

In the morning we visited the "Farm of the Future" Lelystad. Due to a regional holiday in the Netherlands, we did not get a guided Tour, but we were able only to take a look at the trial fields at the site ourselves.



Lesson learned

The visit to the Netherlands and WUR in particular gave us the opportunity to understand how work and research is done in the field of precision agriculture in the Netherlands. Several companies were visited and we got a great insight about new technologies and the challenges in technology transfer.