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Deliverable 3.3:

Report of the third demonstration campaign





NEFERTITI
Networking European Farms to Enhance Cross Fertilisation and Innovation Uptake through Demonstration

Deliverable 3.3: Report of the third demonstration campaign

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Abstract

Nefertiti was extended for 9 months. Also the third and last demo campaign has began on the 01/01/2021 and end on the 30/09/2022. As the previous campaign, the Demonstration Events have focused on showing and understanding innovation within a working farm context or within a local setting. They have to deal with the Covid-19 constraints which were still in place in several countries. Nefertiti has supported many different types of demo events, but they all have in common to base on a certain kind of knowledge exchange and to promote peer to peer learning. The Nefertiti Hub Coaches have organized and connected to Nefertiti 322 demonstration events on their Network thematic in this last campaign and 793 in total. Almot 20 000 people participated in Nefertiti Events in 2021 and 2022 and 45 000 from the beginning of the project. In order to deal with the Covid crisis and keep the link with farmers and local AKIS stakeholders we've collectivity organized 107 online demo events but the demo event organized on farm were increased during this third campaign. Farmers were our first target and have represented 46% of the total visitors, more than 9000 farmers have participated. With 5800 participants in 2021-2022, agricultural advisers and students represent 30% of the total. The events size, target audience, the main organisers, the demo methodology and goals have been very different. Also, despite the Covid pandemic we've reached our goal to support and implement different types of events with regards to the variety of demonstration among sectors cultural habits and AKIS specificities in the diverse European geographical areas.



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1 Demo events global organisation

1.1 Hub campaign plan guidelines

The main task of a hub is to prepare, carry out and evaluate demo events in its region/country, on its specific theme (starting in spring 2019). So for every year (2019, 2020 and 2021-2022) the Hub Coaches with the Hub members have to coordinate a MS3.3 – Action Plans for the third demonstration campaign, which consists of a loop of actions (figure 1). In order to develop a global view of Nefertiti, we shared this plan directly online, on the Nefertiti Platform. For each step we've proposed tools and guiding documents to be used to run the Hub Campaign Plan.

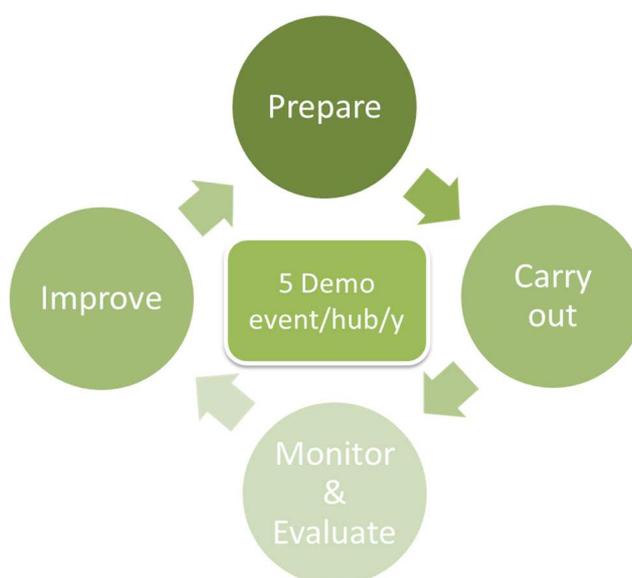


Figure 1: Structure of the Hub Campaign Plan

Nefertiti has the objective to support and integrate a large type of demo Events. The first step of the project was to share a common definition of Demonstration events, which focus on showing and understanding innovation within a working farm context or within a local setting. The hub role is to link to Nefertiti approximately 5 demonstrations per year, on commercial farms (3-4 demos) & on experimental farms (1-2 demos) related to the network topic. The events are based on several objectives and good practices:

- Stimulate knowledge exchange
- Use multi-actor approaches
- Bring together innovation actors and demo farmers
- Promote peer-to-peer learning
- Adapting the knowledge to the need of the farmers according to their sector and their country
- Improve science-practice interactions
- Be adapted to each regional/national specific needs/background



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Nefertiti has the objective to support and integrate a vast type of demo Events. Also, the events organised by the Hub Coaches could be:

- Hosted on commercial farms, roughly 80% of the demonstration activities in Nefertiti
- Hosted on experimental stations, roughly 20% of the demonstration activities in Nefertiti
- Held online: virtual meeting, webinar, video tutorial, chat and forum...
- Held inside: conference, workshop, training session on concept and theory or farms' results analysis
- Held outside: field trip, demonstration (machinery, tools, and practices), practice training sessions...
- Targeting a small groups of farmers (e.g. only innovator or forerunner farmers), large group of farmers ('average farmers') or a large number of different kind of visitors (farmers, advisers, suppliers or farm produce buyers, consumers, students...)
- Focusing on peer-to-peer learning between farmers or focusing on knowledge and innovation transfer to farmers and others participants.

In 2021 we have learned lessons from the first (2019) demo campaign and focused on tips and tricks to improve the organization of the 2nd demo campaign (2020). The learning of the 2nd demo campaign have also been capitalized and integrated in the report. Considering the pandemic we've included a specific chapter on "virtual demo campaign".

2019 & 2020 Learnings: tips and tricks to improve your Events preparation

Objectives

- integrate an element of learning in the objective of an event: what should be the learning outcome? what lessons should participants take home?
- make use of the Monitoring checklist for the organisation of a demo event

Cooperation with local stakeholders such as farmers, advisors, private companies, policy makers etc. is key in preparing a demo event :

- it ensures the construction of a relevant program which suits with local expectations and to choose interesting and inspiring speakers
- it enables to share responsibilities according to fields of expertise (clear division of roles)
- it allows to share the organization with events already planned

Promotion has to be widely spread through different channels, in order to reach diversified targets.

As it requires time and budget, it has to be **sufficiently anticipated and spread along a long period**, with a peak before the event: leaflets, e-mails, SMS, internal communication in agricultural cooperatives, website, social media (Facebook and twitter), local press.

A good timing planning helps to stick to the program:

- Specify the time needed for each part of the program and be realistic about it (especially keep time for exchanges and questions)
- Keep time for unexpected tasks and things that cannot be done beforehand

Virtual Demo Organisation:

Preparing a detailed script, pre-recording videos, practicing the programme and testing technical aspects (platform, microphones, live feed, etc.) beforehand are key to organising a good virtual demo event.

Online meetings should be 1,5-2 hours maximum



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2019 & 2020 Learnings: tips and tricks to improve your events organisation,

Attractive content

- content that stimulates interaction and reflection: icebreakers, quizzes, virtual material, visual aids, plots & field demo's.
- Learning by doing instead of learning by listening: clinics to train skills in the field, demo's where you can smell, feel, taste, do.

Keeping time is essential in order to be able to follow the program:

- Start on time
- Ask the speakers to adjust the contents to the time that has been assigned to them
- Control the time of each part of the event with a dedicated timekeeper
- Avoid diverting from the topic of the demo
- Schedule time for questions

Diversify the type of supports and activities to **keep the attention of the audience**:

- Give priority to hands-on approach
- Combine in-door moments with field trial visits during the same demo
- Valorise testimony of farmers (storytelling)

Optimize peer to peer exchange

- Organise small groups, with group leaders, to facilitate exchanges between farmers. Avoid that the conversation is monopolized by a single person but facilitate that people listen to each other
- Program informal moments (coffee break for instance)
- Stimulate interaction by pro-actively asking input from participants
- Avoid only giving presentations and incorporate a hands-on part in the program
- Stimulate reflection by making use of the ORID method

Virtual Demo :

Interaction and discussions can be more challenging in online meetings compared to real-live events, especially since online events lack more informal exchanges between participants ('coffee-table talk'). Smaller groups and limiting the duration of the events are ways to ensure better participation and more dynamic discussions. Hub coaches found many different ways to organise virtual demos, for example by short pre-recording videos of the demo-farmer to demonstrate the evolution of a situation, having a life-feed to talk to a farmer in the field, organising webinars, Q&A sessions based on pre-recorded videos, etc

2019 and 2020 Learnings: tips and tricks to improve your events monitoring and evaluation, Include Virtual Demo Organisation

Don't underestimate the time for evaluation (questionnaires to participants and debriefing session). Fill in directly after your event the online questionnaire to share the event results

Make use of the exit poll to get feedback of the participants

Pay attention to **follow up** after the demo event

- Provide the participants with a quick report of the meeting (summary, pictures, videos, links,...)
- Send key information (attendance list, technical documents, training courses, etc.) to maintain the dynamic created by the demo event. Pay attention to GDPR guidelines here!
- Generate good and functional dissemination material during the demo day (one person dedicated to taking pictures for instance)



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Communicate on the event through local press and social media (provide material for that) and provide farmers a way to continue their discussions after the demo event (Facebook group for instance) or newsletter

Virtual Demo Event

Use online questionnaire could be a good way to monitor your online event. You could make use of the questions of the exit poll

Call directly some key stakeholders after the event in order to collect their view

1.2 Tools to support the Hub Coaches and assess Nefertiti activities

Nefertiti partners have implemented several tools to support and assess the Hubs' activities. For each step of the loop, documents, xls tools, online questionnaires (...) could be used by the Hub Coaches in order to organise their demo events and share their qualitative and quantitative results (figure 2). The results and tools contents were shared during several meetings in order to improve the Demo Events organisation. Some general dashboards were created to assess Nefertiti activities with the information filled online by the Hub Coaches before and after the events.

Steps of the Demo Event organisation	Tools to support and assess the Demo Event organization
Prepare	Hub Campaign plan with 2019 learnings and tips and tricks Event Form on the Platform FarmDemo Training kit
Carry out	Communication Kit Social media communication protocol
Monitor and Evaluate	Online questionnaire on the platform to share main figures after each event Hub Monitor and Evaluation Journal Checklist, Exit Poll and Team Reflection tools to assist Hub Coaches
Improve	Hub Monitor and Evaluation Journal analysis Hub Meeting Network Meeting Winter Meeting Annual Meeting

Figure 2: tools to support and asses Nefertiti demo events

2 Overall Demo events figures

2.1 Number of events organised during the three Demo Campaign

The Nefertiti goal was to support **675 Demo events**: 225 events per campaign (5/hub x 45 hubs). **In total the project organised 793** demo events during the three campaigns and collectively exceed the initial goal. The 9 months extension have enable to compensate the second campaign which was highly affected by the Covid-19 constraints. At the network scale (figure 3), all the networks have reached or exceeded their quantitative goals. Despite the Covid crisis that popped-up regularly during the second and third demonstration campaign



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and the high difficulties to plan some physical events because of 1) the first very strict lock-down during several weeks across Europe (spring 2020) and 2) the successive restrictions and new lock-down or strict curfew after summer 2020, a very high majority of the hubs have reached their goals and managed to organise a substantial number of demo-events. Most of the hubs dully faced the sanitary constraints and adapted their demo-practices to the new social distancing rules that differed from one country to another. Moreover, the hubs faced some reluctance of demo-farmers to host people and public in their own farms also because of the biosecurity risk, notably for animal farming where zoonosis risks are quite high.

Networks	1st - 2019	2nd - 2020	3rd - 2021-2022	Total	Overall Nefertiti obj
01 Grassland and Carbon Sequestration	24	20	17	61	102%
02 Data driven decisions for dairy farmers	31	25	34	90	150%
03 Robust organic livestock systems	24	23	32	79	105%
04 Optimal soil quality in arable crops	32	17	32	81	135%
05 Crop sensing and variable rate applications	23	24	42	89	119%
06 Increasing productivity and quality in organic arable cropping	24	22	28	74	123%
07 Improved nutrient use efficiency in horticulture	20	18	27	65	108%
08 Water use efficiency in Horticulture	20	17	30	67	112%
09 Pesticide use reduction in the production of grapes, fruits and vegetables	25	19	33	77	103%
10 You can Farm: Farm attractiveness	37	26	47	110	122%
total	260	211	322	793	117%

Figure 3: events number organised per network and campaign

At the hub scale (figure 4), 41 hubs out of 45 of reached or exceeded their individual goal to organise at least 15 events on the three campaigns. 3 hubs have only organised 13 demo events and one hub 14 events which is very close to the initial goal. These figures should also be considered and analysed with regards to the capacity to organise demo-events with the Covid-19 crisis and the capacity to mobilise farmers and actors. Moreover some events were organised but cancelled because of the heatwave episode during the summer 2022. The list of all the events organised during Nefertiti is presented in Annex 2 .



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Networks and hubs	1st - 2019	2nd - 2020	3rd - 2021-2022	Total
01 Grassland and Carbon Sequestration	24	20	17	61
France	5	6	5	16
Germany	6	4	6	16
Ireland	6	5	2	13
United Kingdom	7	5	4	16
02 Data driven decisions for dairy farmers	31	25	34	90
Belgium	12	14	16	42
France	7	4	5	16
Germany	6	4	5	15
United Kingdom	6	3	8	17
03 Robust organic livestock systems	24	23	32	79
France	5	5	5	15
Germany	4	4	8	16
Spain	5	5	5	15
United Kingdom	4	3	9	16
Croatia	6	6	5	17
04 Optimal soil quality in arable crops	32	17	32	81
Belgium	12	5	14	31
Netherlands	6	4	6	16
Poland	8	4	6	18
Spain	6	4	6	16
05 Crop sensing and variable rate applications	23	24	42	89
Finland	3	3	9	15
France	3	6	6	15
Hungary	7	6	5	18
Netherlands	5	6	6	17
Poland	5	3	16	24
06 Increasing productivity and quality in organic arable cropping	24	22	28	74
Finland	8	5	10	23
Germany	4	5	7	16
Poland	7	6	6	19
Spain	5	6	5	16
07 Improved nutrient use efficiency in horticulture	20	18	27	65
Bulgaria	7	5	8	20
Germany	3	3	7	13
Netherlands	5	5	6	16
Spain	5	5	6	16
08 Water use efficiency in Horticulture	20	17	30	67
Netherlands	4	5	9	18
Poland	5	4	8	17
Portugal	5	3	7	15



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Spain	6	5	6	17
09 Pesticide use reduction in the production of grapes, fruits and vegetables	25	19	33	77
Bulgaria	6	4	5	15
France	5	4	10	19
Germany	4	1	9	14
Portugal	4	3	6	13
Spain	6	7	3	16
10 You can Farm: Farm attractiveness	37	26	47	110
France	6	1	8	15
Germany	8	4	4	16
Hungary	7	4	7	18
Ireland	5	5	5	15
United Kingdom	6	5	7	18
Croatia	5	7	16	28
Total	260	211	322	793

Figure 4: events number organised per hub, per campaign and in total

2.2 Number and types of participants

During the event preparation the Hub Coaches have to define the main types and numbers of expected visitors. Almost all the events have the main goal to attract farmers (figure 5). The second target audience is the advisers from different organisations (cooperative, SME, industry, universities, etc...). In a lesser case researchers, farm employees and students were also expected as participants. In average an event has 3 different types of target audiences.

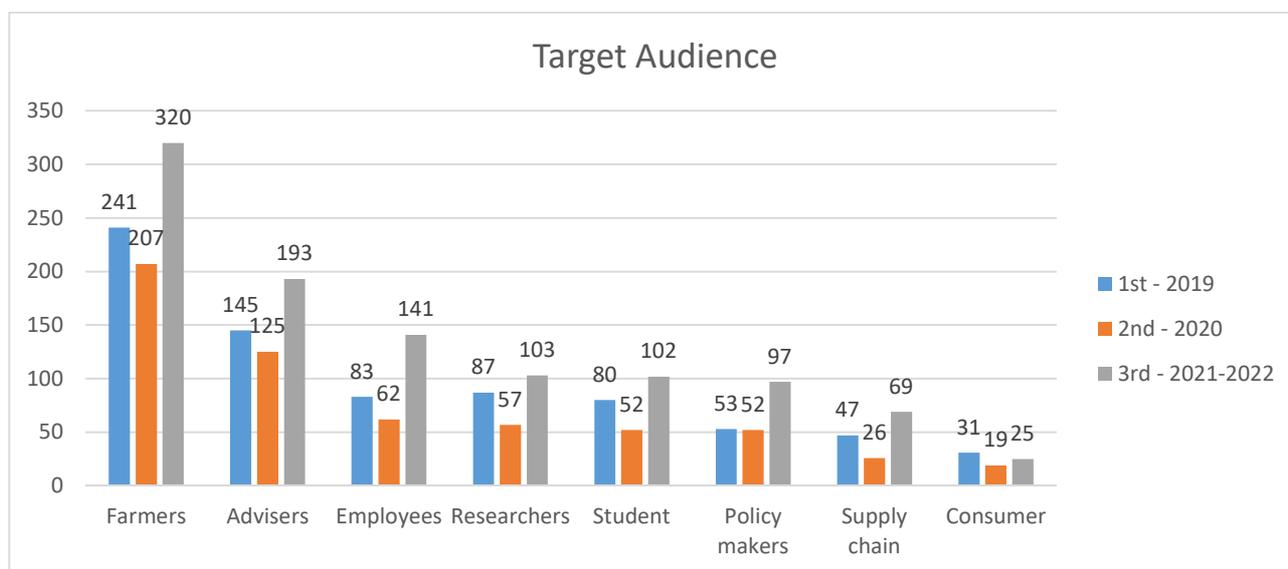


Figure 5: Number of event target audience declared during the event preparation

The main results of the events reports show the differences and the complementarity we can find among the events. **10 000 people in 2020 and almost 20 000 in the third campaign (2021-2022) participated in Nefertiti Events with a total of 45 000 participants since the beginning of the project.** There was a high



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diversity of audience (farmers, researchers, advisers and students). Farmers were the first target and have represented 46% of the total visitors. 20 500 farmers have participated to Nefertiti Demo Event in the three campaigns. With 10 700 participants in total, agricultural advisers and students represent 33% of the total number of participants. The events size, target audience, the main organisers, the demo methodology and goals have been very different and reflected the high diversity of demonstration event which were organized in Europe.

25 000 participants, with an average 61 participants/event have attended to Demo Event. The minimum is 3 participants for a little group of farmers with invited farmers who cancelled at the last minute and the maximum is 600 visitors. 40 “big fairs” with more than 600 visitors (450 000 visitors in total) during which the partners organised demonstrations have been excluded from these statistics in order to provide consistent and robust data in line with the reality and to keep a good balance in the main figures.

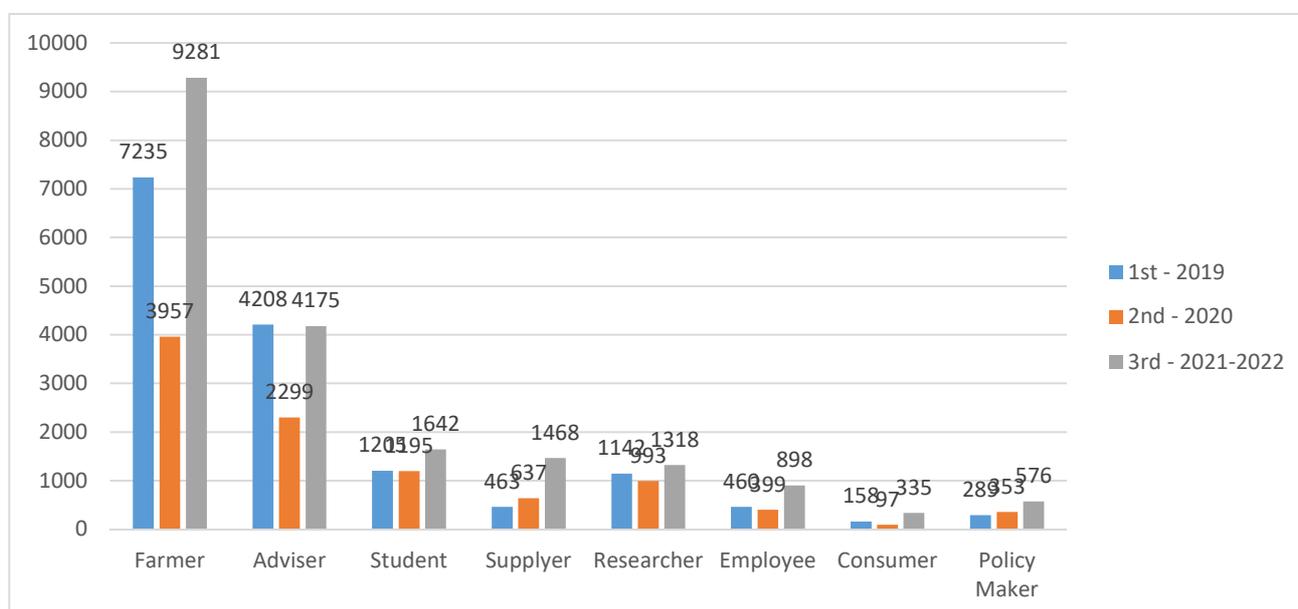


Figure 6: number of visitors and share among types

2.3 A high diversity of types of events organised

The event preparation also consists of setting up the event objectives and global methodology to attract the targets in accordance with the Hub Campaign plan Guidelines and the Demo best practices. The Hub coaches have worked with their hub members and have registered the main characteristics online. The analysis gives a global view of the Nefertiti event activities. The objective was to organise and implement different types of events with regards to the variety of demonstration identified in FARM DEMO, among sectors, cultural habits and AKIS specificities in the diverse European geographical areas. The target audience, the main organisers, the demo methodology and the main goals have been very different. The project reached the goal of qualitative diversity.

Nefertiti aims to promote peer to peer learning with demo events organised directly on a farm. In 2019 70% of the events took place on a farm, and the other were set up in organisation’s buildings or online (webinar for instance). In 2020 in order to manage the Covid-19 crisis the project has responded quite quickly by setting-up and implementing a new modality of on-line demonstration: 40 hubs have organised a total of 107 online



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events (webinar, virtual farm visit/ farminars, online farmers meeting...) in order to keep the link with farmers, innovative actors, students...and maintain NEFERTITI activities at the expected level. In 2021 and 2022 the covid constraint have persisted but 145 demo events were organised on a farm which represented 45% of the campaign events. Nevertheless we've kept on organising online demo : 107 events for 33% of the total.

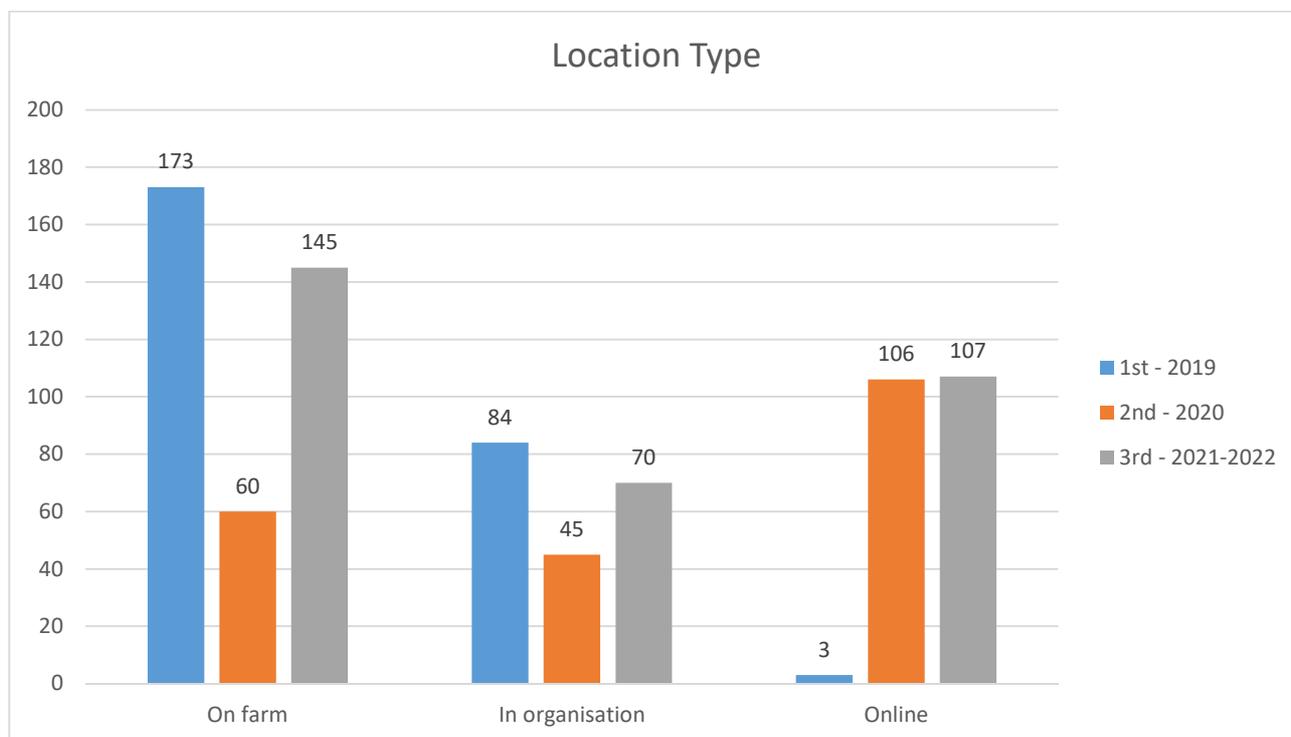


Figure 7: events distribution per location type and campaign

Moreover, Nefertiti has the objective to support a wide diversity of demo event types. We divided the events into 5 size classes. There's a well-balanced event size, from little farmers groups to bigger events (figure 8.1, 8.2 and 8.3). 66% of the events were prepared to attract less than 50 participants. They have globally reached their goals even if some events finally attracted more or less the expected number of participants.

Size class	Total Event number	Total Visitor Average
less than 20	223	16
between 20 and 50	297	41
between 50 and 100	137	86
between 100 and 200	67	155
more than 200	69	259
Total	793	61

Figure 8.1: events distribution per size class



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Size class	Event number per campaign		
	1st - 2019	2nd - 2020	3rd - 2021-2022
less than 20	54	76	93
between 20 and 50	105	74	118
between 50 and 100	49	37	51
between 100 and 200	20	13	34
more than 200	32	11	26
Total	260	211	322

Figure 8.2: events distribution per size class

Size class	Visitor Average per campaign		
	1st - 2019	2nd - 2020	3rd - 2021-2022
less than 20	16	15	17
between 20 and 50	35	47	43
between 50 and 100	87	87	85
between 100 and 200	148	150	160
more than 200	247	221	281
Total	63	50	67

Figure 8.2: events distribution per size class

Hub members, host farmers, and event organisers have several goals and used different methodologies to promote their events and present the innovations. We ranked the main event characteristics by their occurrence (figure 9). The first goal of Nefertiti demo event was to present innovations. Agricultural innovations are multiple and could be the farming techniques (livestock and crops management, labor organisation...), new equipments, machineries, technologies or tools... **The innovations presented and demonstrated on Nefertiti demo events came from research (42%), the farmers directly (33%) and the supply chain companies (25%).** Also, there was a good balance of innovation sources. As the aim of the project is to enhance peer to peer learning, the fact to have 35% of grass-roots innovations coming directly from the host farmer is a good indicator.

The main methodologies used by the event's organisers were oral presentation, interactive discussion, field walk and demonstration display. The main speakers are advisers and farmers. These two characteristics were adapted to the Nefertiti goal to enhance peer to peer learning and improve farming innovation.

Ranking	Demo Events Goals	Demo methodology to present innovation	Event promotion	Speakers
1	Innovation uptake	Oral presentation	Mail	Advisers
2	Competitiveness/Productivity	Interactive discussion	social media	Farmers
3	Farmer and Rural network	Field walks	leaflet - poster	Researcher
4	Improved environmental conditions	Demonstration display	Newspapers	Supply chain actors

Figure 9: ranking of the main events characteristics



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3 Networks view

Network 1: Grassland and Carbon Sequestration

Network 1 Final Video: <https://www.youtube.com/watch?v=tTjtIn-8SjA>



Hubs	Total events	Total participants
France	17	837
Germany	18	597
Ireland	17	502
United Kingdom	18	626
Total général	70	2562

Life of the Network:

Network 1 facilitated 70 demo events during the three demo campaign. It has been implemented despite the impact of the Covid-19 crisis on knowledge exchange activities and reflects the commitment of the hub coaches to delivery of the NEFERTITI objectives. All four hubs met their farm demo delivery targets.

At the beginning of the project, the N1 network and the other networks were brought together at the first meetings during the Annual Meeting using experiences and methods from previous projects (EU AKIS and thematic networks) such as FarmDemo and Plaid. An important milestone was to form a team from the network, connect people and formulate a common direction. WP 1, 2 and 3 helped to develop, implement and evaluate the experiences made in the network during the project period. The aim was to develop the soft and hard skills as well as the content for the network. The personal level played a prominent role because a network benefits from the people and the organisation and their network in the respective country. The distance of the individual hub coaches in a network and the resulting difficulty of collaboration was recognised right at the beginning and different communication channels were considered. WhatsApp, Slack, email, phone calls, etc. were important tools for further communication during the project. Zoom (Corona extension of learning) was added at a later stage. The annual meetings were an enrichment and could be used from the beginning productively, not only in the individual sessions and meetings, but also at the joint dinner and in the breaks, where content and methods were discussed intensively. During the project, the planned cross-visits became one of the outstanding examples of transnational exchange. Network 1 managed to organise three cross-visits in Germany, Ireland and the UK together with other networks

- Covid reactivity and online demo organisation



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As with all networks (and the whole NEFERTITI project), COVID-19 and the associated restriction on travel and meetings heavily affected demonstration activities. There were many demonstrations planned that could not take place, but as a result there was an increased use of virtual/online demonstration. The main challenge with the online meetings was the initial recruitment of participants and the subsequent training of stakeholders and farmers to participate, as the expertise to conduct online meetings was not yet available. Ten of the demo events were held virtually in 2020.

The Hub coaches learned a lot from running the virtual/online demo events in 2020, but the physical on-farm demonstrations are still more useful for certain topics, as on-site the focus is more on body language and activity, i.e. doing, and fringe discussions can take place. The pandemic has taught us a lot and made us feel even more the importance and necessity of demonstrations.

COVID-19 meant that our demo events in 2020 and 2021 were largely online. While this forced us to innovate, it also brought challenges, not least in 2021 when there were indications in some countries that farmers were hostile to online demo events.

The various guides and training packages provided by the project coordinators were helpful in providing guidance, but ultimately it was the practical application of the guides (often in collaboration with others) that helped to develop and improve the various skills associated with planning, delivering and evaluating our face-to-face and virtual demo events.

Close relationships were built with key agricultural stakeholders through the co-organisation of demo events.

- **Technical Hot topic discussed into the network**

There is no uniform technical solution for all regions or all soil types in Network 1. The region-specific differences quickly became clear and the different framework conditions of the various legal situations and implementation strategies were also very diverse. In addition, the cultural characteristics should not be ignored. This results in several solution strategies that always depend on a region and its actors. That is why we have set ourselves the first goal of placing the topic in general among the farmers (grassroots community), of raising awareness among farmers, actors in the area and advisors, and of discussing the challenges and opportunities. The change in the climate led to an increased demand for these topics during the project, so we were able to achieve the goal of 1 Growing Community very well; in the 61 demonstrations we were able to reach 2461 people. But not only the increase in people was important to us, we also wanted to identify indicators for grassland and carbon storage. The aim was to make sure that the actors in the field can really make a difference, and this includes a quantification. It became clear that soil fertility is very closely related to carbon sequestration, but also management, especially in grassland, so grazing is an interesting lever in the field, but also water management, which was very well illustrated in the German examples on carbon rich soils (peat soils) The different perspectives in the countries were very much shaped by the influences at the international level, so we could see that the exchange of an EU network was a significant benefit for the topic. All organisations were already exchanging but there was no round table or hub on this topic yet.

The main topics discussed during the demo events are listed in the table below.

Country	Topics/ themes for demo events 2020
France	<ol style="list-style-type: none"> 1. Grass-fed milk: discovering its carbon assets! 2. webinar on C sequestration in Biolait farms 3. carbon sequestration in beef farm 4. Carbon sequestration What is it, how to evaluate in on a livestock farm? 5. Storing carbon in the soil: advantages of organic dairy farms



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Germany	<ol style="list-style-type: none">1. Online Seminar Soil science basics and importance of individual nutrients in arable, grassland, vegetable, fruit and horticulture.2. Soil cultivation on Grassland3. Field walk "Ollenbäke4. DEMRA mouse monitoring meeting5. Water management / grassland management6. Farmwalk mouse problem
Ireland	<ol style="list-style-type: none">1. Leamlara discussion group session on carbon sequestration2. Bride20 Discussion group3. Bride Valley discussion group4. Teagasc dairy adviser grassland carbon sequestration training5. Carbon Sequestration Webinar
United Kingdom	<ol style="list-style-type: none">1. Soil farmer of the Year Farm Walk2. Soil Farmer Virtual Farm walk3. On -Line Harvest Festival4. The Greatest Online Agricultural Show5. Animals To Arable



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Network 2: Data driven decisions for dairy farmers

Network 2 Final Video: <https://www.youtube.com/watch?v=hvCcWm-QMro>



Hubs	Total events	Total participants
Belgium	44	2509
France	17	443
Germany	15	384
United Kingdom	17	661
Total général	93	3997

- Network aspects

The focus of our Data Driven Decisions for Dairy Farmer network is on how technology can assist in making real time decisions on dairy farms that will improve the quality of life for livestock, farmers, farm staff and the consumer by using the network to demonstrate best practice from farmer to farmer both nationally and between countries with different systems.

Network 2 continued to have a strong relationship between the hubs in Period 3. IfA as network lead six virtual network meetings via teams, (31/03/21, 12/05/21, 16/06/21, 13/10/21, 08/12/21 and 09/02/22) . Our network also met at the virtual Nefertiti meeting (13-14/04/21) and the final general meeting in the Hague (5-7/05/22) and in 2 cross visits (26-28 October 2021, and 3-5th May 2022. Connections were also made with Horizon 2020 projects DISARM (on the use of technology to reduce antibiotic use) and GENTORE – with our network lead being one of their stakeholders and attending their annual meeting on 15th November 21 in Genoa.

The virtual teams meetings always included a technical presentation alongside addressing issues raised in the DAP and by hub members, planning the crossvisits and giving feedback from the network leaders meeting (30th /11/2021) and other requests from work packages

Covid still had its effect, the French cross-visit (combined with Network 3) finally took place in on October 26th 2021 in Brittany after having to be postponed 3 times. This was 2 years and 4 months after the first cross visit held in Germany. There is no doubt that the international networking of farmers was hampered by the covid induced suspension of international travel, but the camaraderie was soon re-established in the wonderful French cross-visit and cemented by an equally successful Cross-visit in the UK in May 2022, examples of which will be detailed later.



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2021 saw the return of the German hub coach from maternity leave, completing her hub programme by the original schedule of December 2021. The Belgian, French and UK hubs, who had been more affected by Covid restrictions, took the opportunity provided by the project extension, to deliver demonstrations in 2022.

- Soft skills learnings

Belgian Hub

During the first year, it was still a bit trial and error to find how to organize the perfect demonstration. But by organizing more demo's we got better and better. With the help of the Dynamic Action Plan, it was easier to make our goals (as a hub and a network) more concrete and to define the objectives and the methodology. By adapting our demonstrations to the DAP, they became better and easier to organize. The demo farm training kit also helped us a lot in preparing, organizing and facilitating a demonstration. It was a very helpful tool to check if every aspect of the demonstration was taken care of and it helped us a lot in terms of evaluating the demonstrations. The 'plan for continuous for improvement' also helped us a lot to look for things that could have been done better. The sudden switch to online demonstrations and webinars was very hard to make, but with the help of the resources provided by WP1 and WP5, it was easier to make the switch and organize successful online demos.

French Hub:

Inside the hub, even when the technical meetings are well organised, you really need to make the farmers confident so that they can feel that their own experience is interesting for the others and that it will help the other farmers to improve their own practices. In the farm demo training kit, you can find some tricks and tips to make them confident. Using ice breaking methods, facilitation tools, taking enough time to let everyone express its ideas and keep enough space for the discussions (not only demonstration) were soft skills that really helped the hub to be dynamic and participative.

The evaluation of each event organized was very important. Often the evaluation process is neglected in the demo events because it is the end of the event and people feel that they don't have additional time for it. But this evaluation process is crucial and can just take the form of a simple formal discussion or being more elaborated. The farm demo training kit provides nice polls or checking lists of questions that you can ask to the participants. But the most important is to make it simple and user friendly so that the people don't feel overloaded by it.

German Hub

To set up a discussion group we used an existing discussion group of pasture farmers, which comprised about 40 participants from the Wesermarsch region in Lower Saxony. The group met at regular intervals and already had a good basis for collegial knowledge exchange. For these reasons, an efficient and intensive exchange of knowledge was a given right from the start. The most important basis for a successful knowledge exchange is trust among farmers.

The use of evaluation techniques was new for the existing discussion group as well as for participating advisors from other organisations. At the beginning, there was not much willingness to respond, and the use of the techniques improved with the number of conducted demos. Through the feedback from farmers and the training on evaluation techniques of demonstrations has improved the quality of our events. Farmers are very happy to use the techniques to summarise the exchanged knowledge at the end of an event.



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UK Hub

In addition to sharing the experiences of the other hubs, we found that the key to improving the quality of the demonstration events was improving the facilitation, both in stimulating discussion during the technical knowledge exchange and conducting the reflective summary at the end of the demonstration. We found the demonstrating farmers valued the thoughts of their peers, and the reflective process was also a valuable thought provoking exercise for each participant in evaluating the suitability of the innovation for their own farming system.

- Technical learnings

Network 2 showcases how precision livestock farming can benefit farm productivity, animal and farmer welfare and address many of the environmental issues that concern the public. Key topics are:

- Robotic Milking
- Early health monitoring (rumination, activity, temperature), and subsequent improvements in animal wellbeing, and reduction in antibiotic use.
- Breeding for health traits using genomics
- Using thermal imaging for early lameness detection
- Optimising dairy cows at grass
- Making life easier for the farmers

The objectives from the DAP were :

- Keeping the NEFERTITI project happy!
- The ongoing collaboration between farmers, i.e. including those who attend the cross-visits.
- To share the content of demo events between hubs.
- To support hub members to lead on the topics/co-organising of demo events.
- Organise interesting crossvisits
- Provide a sustainable network post Nefertiti
- To find ways of overcoming the personal interaction restrictions of COVID-19 for the 2020 events programme

Belgian hub:

The sudden switch to online demonstrations and webinars was very hard to make, but with the help of the resources provided by WP1 and WP5, it was easier to make the switch and organize successful online demos.

A challenge we faced with Network 2 was to stimulate the personal interactions and engagements during the COVID-19 era. But again, with the help with resources provided by the project (e.g. Mural), we tried to overcome this challenge as much as possible.

We learned that we don't need physical events to teach/learn something or to network/discuss with the hub. But we also learned that physical events are very important to create and strengthen connections between people. Virtual events are a great tool to host demos but human interaction is not replaceable online.

French Hub:



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The French Hub was a practice exchange group constituted by dairy farmers equipped with a milking robot. The meetings took place on one of the farms of the group with a visit of the farm, and particularly the milking facility.

In front of the computer which controls the robot, the farmer demonstrates his procedures: what alerts, what triggering thresholds, how he responds to them, the settings of his machine, the various parameters... The daily management and the strategy of complementation are also reviewed.

In front of the robot, the breeder explains his daily and weekly interventions, more generally the maintenance carried out and the management of breakdowns.

It is a very important moment of exchange where everyone can share their difficulties encountered since the last meeting and the means implemented to resolve them.

During the tour of the farm, and the pastures in spring, it is also an opportunity to discuss the production system, feeding the herd, and the management.

An expression that often emerges in these meetings "it is not the robot which must guide the production system, it must adapt to the existing system chosen by the farmer".

These experience sharing were always technically very instructive, but they were enriched all along the project by the different soft skills we learned and enhanced by the international aspects (cross visits) of the project (see the success story example below).

German Hub

One of the main objectives of the German Hub was to choose topics in a way that would steadily increase the willingness to participate the demo events on the one hand and to increase the general interest in pasture based dairy systems on the other hand. Only less than 40% of the farms in Lower Saxony have the dairy cows on pasture for at least 6 hours per day from April to November. The reasons for the decline are growing herd sizes, a lack of knowledge, especially among young farmers, and no advisory services for grazing farms.

Based on the constant and slightly increasing number of participants at the demo events, we were able to achieve the goal, we have set. Especially the cross visits have brought the discussion group closer together. The exchange of knowledge with other EU farmers has shown the German group that grazing has not gone out of fashion as it is believed. The involvement of farmers in the choice of topics for the upcoming demo events is also another reason for good collaboration between farmers of the German hub. It is advisable to draw up a thematic plan with the farmers at the beginning of the year, although this can be adjusted again flexibly at short term to changing needs and topics.

Building on the participants, we tried to spread the group to other grassland regions. The idea was to achieve a better spread with the help of the core group, but the motivation and added value for the core group participants was too low. We should have intensified the involvement of the core group participants to better emphasize the advantages over a longer period. Nevertheless, without Nefertiti, our pasture discussion group could not have continued. The organisation of many demo events has sustained the group. In the future the grazing discussion group will continue. Funding for the discussion group comes from subsequent EU projects on thematic networks.

UK Hub, and Network Lead :



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The policy of regular network meetings, which included technical presentations, created a strong supportive relationship between the four hubs and well attended meetings. Included in the presentations in period three were updates on new video technology to detect lameness, updates on French research on using virtual fencing and how advancements in cross-breeding genomic assessment can help improve the sustainability of dairy farming.

Our hub concentrated on the use of technology to improve welfare, and to provide accurate insights to improve real time decision making on farm. This also provided valuable inputs into the work on reducing antibiotic use on farm.

Our Network was successful in achieving both in exceeding the demonstration events required by NEFERTITI, achieving the goals defined in or DAP, and reacting and adapting positively to the COVID situation.

- Impact of Nefertiti on farmers and organisations (advisory) :

Belgian Hub

Within the Belgian hub of Network 2 it was pretty easy to stimulate peer-to-peer learning (first type of demonstrations) amongst the farmers, because it was a small group of farmers who got along very well. The farmers became a close group and still have contact which each other.

During the cross visits, it was very informative for our farmers to not only listen to the local farmers, but to also exchange experiences with other farmers from different hubs and networks/countries.

The hub coaches from the different hubs within Network 2 also keep contact with each other and creates a WhatsApp group where next meetings are discussed, where we share tips on technical aspects of demonstrations, discuss new demonstration topics, the situation in each hub etc.

French Hub:

One success story example for the French Hub: During the first cross visit of network 2, in Germany, one of the farmers from the French hub met an Irish breeder with whom he remained in contact. Thanks to this meeting and discussions, he was able to set up a dynamic rotating grazing system in association with his milking robot. This same French farmer subsequently welcomed network 2 breeders to his farm during the cross-visit in France, where he was able to show his new system in place.

The cross visit organised in UK was also very instructive. Indeed, we visited two very different farms within the same day. The first one was a low cost production system with low inputs, a lot of grazing, simple housing. The second one was a high technological production system with milking robots, feeding robot, no grazing, 100% indoor housing, high milk yield levels. The discussions that followed about the impact on income, workload, jobs induced or not by the different systems was very rich and appreciated by the farmers present. The debate continued well after the end of the cross-visit and inspired ideas within the French hub.

German Hub

Cross visit: During the first cross visit in Germany, a German farmer and a Dutch farmer, who came with the Belgian group got to know each other and they still exchange information about cross breeding and grazing management intensively. In particular, the exchange of experiences on crossbreeding of Brown Swiss and Holstein Frisian connects the two farmers. They use messaging tools to keep in contact.



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- Building a national network with the other German partners Bioland, Naturland, ÖON and Demeter
- Dissemination of peer-to-peer learning as a successful advisory concept due to a high number of conducted demo events
- Stronger commitment of farmers to the Centre for Grassland who have participated at the cross visits.
- Own knowledge gained through participation in cross-visits

UK Hub

The challenges of Covid motivated IfA to develop a virtual platform, “the Greatest online Agricultural Show” which helped UK farmers during the isolation of the spring and summer of 2020. This has now been developed further into IfA Live a digital tool providing online communication and training

The cross visits were the highlight of the program for our farmers, and many lasting relationships have been made. It was valuable to include networks 1 and 3, which broadened the interaction, contrasted different farming systems and showed how technology can contribute on organic farms, and reduce the carbon footprint of dairy. I am aware of UK hub farmers that have already visited farmers in Germany and Spain.



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Network 3: Robust organic livestock systems

Network 3 Final Video: <https://www.youtube.com/watch?v=E0tbRA-dpzo>



Hub	Total events	Total participants
Croatia	17	502
France	15	1151
Germany	18	1514
Spain	15	467
United Kingdom	16	652
Total général	81	4286

- Network life and progress

As Network 3 leader, INTIA followed up on the defined strategy, energized the network and coordinated partners. This coordination was done through emails and quarterly skype calls in order to check-in for tasks updates and monitor partners' activities. A total of 5 network virtual meetings were held to ensure the internal communication and coordination of the network. In 2019, there was only one of these meetings, on the 12th of November, and in 2020 on the 11th of February, the 8th of April (during a parallel session in the General Assembly), on the 26th of June and on the 16th of October. Additionally, the network also met in person on the Cross Visit held from the 17th to the 18th of July 2019 in Germany.

The 12/11/19 meeting was the occasion to exchange on the cross visit in Germany and identify improvement aspects. The 2019 demonstration implementation and the upcoming Winter Meeting topics were also discussed. The 11/02/20 meeting was mainly focused on the development of the DAP2, while the one on the 16/10/20 was on the evaluation of the DAP2 use during 2020. Heidrun Moschitz from WP1 joined both meetings to ensure the data collection on the DAP2 for WP1. In 2021 the third DAP revision meeting took place.

Being the project focused in the methodology or in the "how", at the beginning of 2020, the hub coaches identified a need for a greater exchange on technical knowledge. In order to answer to this requirement, different technical exchange means and tools were discussed. This resulted in a shared Excel file that was created and placed in the Nefertiti project SharePoint. This way each hub coach could add topics on which they were looking for information or on which they could provide information. The shared information was mainly focusing on pasture based livestock production, talking about grass silage, cross-breeding or foster cows. Topics that were also discussed during the network meetings.



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In 2021 4 network meetings were organised. A total of 3 network meetings were organised during 2022, being the last network meeting the one held on the 24th June 2022. The content of these meetings is further explained in the “Technical Hot topic discussion into the network” section..

- **Covid reactivity and online demo organisation**

A common point in all the meetings was the exchange on the hub plans and their deployment, as well as the difficulties encountered during the development of the demonstrations. This point became more crucial in the situation of COVID pandemic, as hub coaches had difficulties in implementing the demonstrations with the constraints and limitations. In order to find common solutions, sharing on virtual demonstration experience and tools became one of the items of the agenda of the meeting on the 26/06/20. Despite the difficulties the network partners made an effort to overcome the barriers and organise at least one virtual demonstration and to do even many face to face demonstrations keeping the project alive. This resulted in a fruitful exchange among network members, allowing them to learn from each other and improve their online organisational skills in the demonstration

- **Technical Hot topic discussion into the network**

A relevant topic of the exchanges in 2020, based on the demands of the hub coaches needs and often discussed was the need of a better exchange on technical knowledge. For this purpose, different technical exchange means and tools were discussed. This resulted in a shared Excel file that was created and placed in the Nefertiti project SharePoint. This way each hub coach could add topics on which they were looking for information or on which they could provide information. The Excel didn't work as well as expected, therefore a decision was made to have different technical presentations followed by a debate among the participants during the network meetings. The shared technical content was mainly focused on organic dairy production having different initiatives presented during different meetings such as the Reine Mathilde in Normandie (France) and the pilot project on the Roncesvalles experimental farm in Navarra (Spain).

The technical examples shared were in line with the main topics of the demonstrations: livestock production under grazing systems and organic dairy production.

A link with the Horizon 2020 project BovINE has also been made, through two presentations in two meetings of the project. One in June 2020, explaining the overall concept of the project and a second one in June 2022, explaining the results of the project and focusing on the Bovine Knowledge Hub, a repository of research innovations and good practices identified in the project to improve the sustainability of the beef sector. A total of 3 network meetings were organised during 2022, being the one mentioned in June the last one.



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Network 4: Optimal soil quality in arable crops

Network 4 Final Video: <https://www.youtube.com/watch?v=GRV5NJgDExQ>



Hub	Total events	Total participants	
Belgium	32	2194	
Netherlands	18	2069	
Poland	18	636	
Spain	16	536	
Total général	84	5435	

- Network life and progress

A total of 6 meetings were organized during this period within the network with the different hub coaches through skype. In 2021, these meetings took place on the 16th of March, the 26th of April, the 7th of June, the 6th of September. In 2022, there were network meetings on the 28th of February and the 29st of March. Due to the Covid-19 restrictions, most exchange sessions were held by skype to maintain the exchange between the hubs. As network leader, Inagro tried to facilitate the exchange of technical information and know-how. The first meetings had focus on organising the virtual demonstrations and hybrid demonstrations. During the last network meeting, there was focus on the organisation of the cross-visits.

- Covid reactivity and online demo organisation

In 2021 upon to the end of the project, 7 demonstration were hold online and 16 on a farm. In the online events, more participants joined, but there was less interaction. There was also a hybrid demonstration. The most important for these types of events, is a very adequate technical support and plan B.

- Technical Hot topic discuss into the network

The objectives and challenges of the network were to attract farmers to the demonstrations, that they interact among themselves and that some farmers implement the knowledge shared during the demonstrations. To fulfil these objectives we organized demonstrations that tried to solve real problems of the farmers. The topics of the demonstrations were therefore partly initiated by the farmers. By that, the organisers were sure that they could trigger the common interests of the farmers.

We also made demonstrations with a combination of different topics, within the main frame of soil quality, as example the combination of the reduction of pesticide use and mechanical incorporation of cover crops. It was



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very important to control the time of each part of the event so the program was accomplished. By this way, we tried to expand the number of interested farmers.

We also learned that combining in-door with field trial visits in the same demo was more interesting for farmers. To promote interacting, it was important to foresee sometime in the program for the discussion during or after the demo. Even coffee or lunch breaks were good moments for interaction.

What always works, is the integration of moving machines in the program. Also, the combination with putting the farmers 'into work' (workshop) in a demonstration, gives good results. The use of knowledge on making photos and video (special training by NEFERTITI project) makes an upgrade on the current demonstrations. We made use of social media to promote our event and had direct contact with member of hub and network.

The most difficult part was to know if farmers implemented what they had seen in the demos. Exit polls were not enough for that purpose. Direct contact with the farmers, mailing and phone conversations were very time consuming.



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Network 5: Crop sensing and variable rate applications

Network 5 Final Video: <https://www.youtube.com/watch?v=MmQyFmJJDoU>



Hub	Total events	Total participants	
Finland	15	15	1022
France	17	17	920
Hungary	18	18	1219
Netherlands	19	19	2889
Poland	26	26	1402
Total général	95	95	7452

- Network life and progress

Apart from the joint meetings organized by the NEFERTITI project management, Network 5 organized 4 meetings per year via Teams. The basis for discussions was the Dynamic Action plan which has been updated and several objectives and challenges were formulated for the coming year. An example of this was how to effectively address the different levels of knowledge of farmers.

The network also discussed and prepared the cross-visits (to the Netherlands, France and Poland). The hub coordinators are, not only, eager to see how demo's and peer to peer learning is organized, but are also eager to learn about state-of-the-art technology in other countries. The network didn't find digital cross-visits a good alternative, so everybody was happy to meet in real life. The Network managed to organize the planned number of demos, even though quite some were organized in the last year.

- Covid reactivity and online demo organisation

The use of video's and farmers testimonies to make knowledge exchange more effective, were discussed. This approach turned out to be very useful when COVID manifested as a pandemic. The network managed to organize several webinars but also during COVID some live demo were organized.

During the Teams meetings experiences were shared and this helped to improve the future webinars. Even though the change-over from live demonstrations to webinars was difficult and challenging, the network managed with the support of the WP leaders.



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- **Technical Hot topic discuss into the network**

Another objective of the network was to exchange the “best experience” of the hubs this year, in terms of successful peer-to-peer learning and knowledge exchange. In the autumn meetings each hub shared interesting examples that were discussed extensively. A hot topic was how to improve the interaction with and between the participants of webinars. This to be combined with how to deal with different levels of (non-) experienced farmers, visiting the demos. The conclusion was that farmers learn best from experiences of other farmers, so bringing them together and have a good facilitated discussion would be the best approach. Also experiences were shared regarding the optimal (and maximum) length of a webinar. The issue of live presentations in the field (so no prepared videos) was discussed but in this network it was considered to be too risky due to connectivity risks.

All in all, network 5 evaluated the experiences as very useful. Each member learned a lot and became much more aware of important elements of a demo organization, as were collected in the Demo Training Kit. Also to successfully cope with the COVID challenges was quite inspiring.



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Network 6: Increasing productivity and quality in organic arable cropping

Network 6 Final Video: https://www.youtube.com/watch?v=ExzyhXr9_zs



Hub	Total events	Total participants
Finland	25	1512
Germany	16	484
Poland	19	1122
Spain	16	616
Total général	76	3734

- Network life and progress

The primary goal of the Network was to promote exchange of knowledge among farmers, farm advisors and scientists across Europe to foster uptake of solutions that increase productivity and quality in organic arable cropping.

To achieve the intended goal for Network 6, internal meetings of network members were held. In the years 2019-2022, Network 6 held regular (on average once a quarter) online meetings and additional physical meetings (during the Annual Project Meetings and Cross Visits). In addition, some operational matters concerning the functioning of the network and individual Hubs were discussed via e-mail and during remote meetings with individual network members.

During those meetings, important topics for the proper and efficient functioning of the Network were discussed. This included reporting on progress of the individual hubs. For this purpose, the status of virtual demonstrations, the issue of cross-visit organization, cyclical update of the number of farms and actors on the platform as well as pandemic situation in individual countries and the impact on the implementation of NEFERTITI's activities, were discussed.

In years 2019-2022, as part of the Network, 76 demo events were conducted (both physical and online). The total number of participants in these events was 3734 (such a high attendance is mainly due to the high interest in online events and easy access to participation).

- Covid reactivity and online demo organisation



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The situation related to the COVID pandemic had a significant impact on the form that the tasks were carried out by the members of the Network.

Initially, there were concerns among Hub Coaches about the success and quality of such remote events. These concerns mainly related to the possibility of presenting the demonstration as such without the active participation of the audience, as well as the involvement of the event participants.

However, the quality of the demonstrations, adapted to the sanitary requirements, mainly remote meetings and face-to-face meetings in the sanitary regime, did not differ significantly from the planned ones. This was achieved mainly through the proper preparation of the event as well as the selection of the topic and the main demonstrator.

All members of the Network organized at least one demo event in an online form (mainly in the form of a webinar with a presentation (photos, videos, testimonies presenting practical aspects of given activities)).

- **Technical Hot topic discuss into the network**

The basic challenges carried out by the Network during the demonstration campaign concerned mainly the presentation of practical activities aimed at streamlining, improving and more effective production management in arable organic farming, resulting in a more effective level of their production and quality. The above-mentioned activities included the following issues:

- innovative solutions in the field of nutrient management, weeds, diseases and pests' control, crop rotation, intercropping, plant selections and modifications;
- machine management, aggregation of machines, use of modern technologies, including elements of precision agriculture;
- maintenance of organic matter in the soil, proper soil fertility management, role of microorganisms;
- value chain and commercialization channels.



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Network 7: Improved nutrient use efficiency in horticulture

Network 7 Final Video: https://www.youtube.com/watch?v=z9Xnq_k4ZsE&t=2s



Étiquettes de lignes	Total events	Total participants	
Bulgaria		20	916
Germany		15	505
Netherlands		17	1259
Spain		21	879
Total général		73	3559

- Network life and progress

The Network 7 was created in 2018. The network has 4 hubs - in Bulgaria, Germany, Spain and Netherland. The network is focused on efficiency of nutrient management and fertilisation under horticultural crops (greenhouse grown and open field vegetables, and fruit). Novel approaches for improved fertiliser efficiency (at least NPK) were demonstrated with mineral and organic fertilizers. Crop rotation and sources of available nutrients, distinct from fertilizer, were included. For conventional fertilisation, the focus was on a) Decision Support Systems (DSS) that calculate daily fertiliser requirements and b) fertilisation based on sensing/monitoring. For organic fertilisation, the demonstrated techniques include the integrated cultivation of crop plant between, respectively in the fruit tree grows in existing orchards as well as using of different cover crops before planting new orchards and best application of special manure spreaders and compost.

As network leader of Network 7 "Nutrient use efficiency in horticulture", NAAS strengthened the network and its sustainability through managing and organizing its activities, coordination of hubs activities and support for their development. For that purpose, NAAS organized and moderated online meetings to discuss on network activities. The preparation of proposals for possible activities and exchange of experience between network 7 and other project 'networks were also debated via skype.

During the period NAAS also supported the development and improvement of the Network sustainability through regular online meetings between hub coaches and other network members during the NEFERTITI events. Communication between the participants in Network 07 was also carried out via e-mail with materials and guidelines concerning Networks activities and issues. Also, Network hub coaches and other members agreed and exchanged opinions via email communication on the main goals and the implementation of Network 07 Dynamic action plan for the each year.



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On February 11th, 2020, a network meeting was held. During the meeting, Network leader, hub coaches and deputy hub coaches discussed about the DAP for 2020, including the main goals, challenges and tasks of the network members.

In April 2020, during the NEFERTITI online annual meeting, participants from Network 07 discussed how to hold demonstration events in the conditions of lockdown and COVID-19 situation. The following main issues were discussed: Which are the appropriate methods for virtual demonstration and the platforms that provide these functionalities; How to present the demonstrated topic most adequately through virtual tools; and the planned and the held events of the annual demo campaign plan for each hub.

In the spring and summer, the hub coaches were engaged in conducting the demo campaign. Most of the hubs have met their goals, with some delay observed in the German hub.

On December 16th of 2020, a regular meeting of Network 7 was held. During the meeting the participants discussed the implementation of the demonstration campaign, the best practices during the campaign, as well as the difficulties that each hub coach has encountered. As good practices for online demo events, the use of pre-recorded demonstration video was reported, which is played and discussed during the online demonstration event.

In 2021 also a number of restrictions and anti-epidemic measures were addressed. We already had some experience of carrying out online demo events, so we were more confident in implementing the campaign.

At the beginning of the year we drew up the dynamic action plan for 2021, setting ourselves targets given the situation across Europe. There were different restrictions in different countries, especially for holding attendee events 'on-the-field'.

On the 24th February 2021, a regular meeting of Network 7 was held. During the meeting the participants discussed the implementation of the DAP for 2021, cross-visit campaign and Annual campaign plan from each hub. We set ourselves clear objectives and one of the main goals was to conduct mandatory demonstrations on the field.

The 4th annual meeting (13 and 14 of April 2021) was also held in a pandemic situation - on-line. This did not prevent us from being part of an interactive discussion in which everyone had the opportunity to share their experiences and to look for solutions to difficulties that came up. We discussed about the lessons learned, about the value of the network, about the policy support in demonstration process. We also had the opportunity for collective reflection.

In 2021, we started the demonstration campaign by organizing online events, and once some of the restrictions were lifted due to the pandemic in the individual countries, we were able to hold on-farm demo events.

In the spring and summer, the hub coaches were engaged in conducting the demo campaign. Most of the hubs have met their goals, and some countries organizing more demo events than planned.

During the summer, the contacts between the members in the network were made through email, and on 17 September 2021 we held a regular online meeting of the network members. During the meeting, the hub trainers shared the level of progress in reaching the goals, as well as the difficulties they face given the long-standing counter-epidemic measures in different countries. We also discussed the upcoming cross-visit, as individual countries presented the possibilities of organizing a visit in their country.



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In 2022, we continued to organize and hold the demonstration events. Most of the events were on the farm, but we also held some online events.

After the end of the restrictive measures due to the pandemic, we realized that online events complement and enrich the demonstration activities, but cannot completely replace in-field (on-farm) events.

During the 5th annual meeting (5-7 of April 2022), we prepared video materials to promote the activities of our network on social media, we discussed the possibilities for network sustainability after the end of the Nefertiti project.

We also prepared a poster that represented the activities of Network 7, which was shown at the Farm Demo Conference, Brussels (11 May 2022).

Three cross-visits have been held in our network. The main challenge for the participation of farmers in the cross visits was the timing. Some farmers were interested to attend and also know English, but often they had to cancel due to time limitations from their side.

The first cross-visit of Network 7 was The Organic Agriculture Days 2019. It is being held for the second time in Grebenstein (Kassel area). This event is a unique combination of practices and research in organic farming and animal husbandry. It is the ideal platform for exhibiting innovation and discussing topics with policy and business representatives. We visited pilot fields during the 2019 Organic Farming Days. During these days, various farmers and institutes demonstrated innovative techniques and technologies in the production of the most environmentally friendly crops.

The second cross-visit was held in Bulgaria in October 2021. Three demo farms were visited during the cross visit. The first event was at the Agro ecological Centre of the Agricultural University, Plovdiv. It was typical demonstration research farm for organic production which provides open field days, demonstrations, exhibitions, seminars and round-table discussions. Priority areas are the promotion of organic and sustainable agriculture in Bulgaria and providing a practical demonstration of methods and agro techniques for organic farming, incl. testing of biological preparations and fertilizers. The second was a greenhouse for year-round hydroponic vegetable growing in the village of Malo Konare. The greenhouse area was about 0.8 hectares and equipped with a food unit, automatic microclimate control, weather station, irrigation water temperature control system, chemical water analysis. The farmer uses biological plant protection products as well as bioagents. The third demo farm was a greenhouse in Sofia with an area of about 0.5 hectares and was equipped with an Oxy-hydrogen production system. The system is a solution specially created for the boiler farms of the greenhouse producers. The system is based on Power-To-Gas (PTG) technology, which uses alternative energy (wind or solar) for fuel production. The only process that allows the use of alternative energy sources for fuel production is the method of electrolysis of water. Electrolysis is a method by which the water molecule is separated into hydrogen and oxygen by means of electrical energy, and the resulting mixture is a high-energy fuel.

The third cross-visit was held on 27-28 April 2022 in Almeria, Spain. The meeting was attended by representatives from different countries (Germany, Bulgaria, the Netherlands, Poland, Spain, Portugal) - members of Network 7 "Improved nutrient use efficiency in horticulture" and Network 8 "Water use efficiency in horticulture" and the participants were advisors, farmers, researchers, representatives of regional/national authorities, experts from the European Commission. The cross-visit was attended by the network leaders of the two networks and all the hub coaches of the hubs from the different countries, as well as their members



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who are directly involved in agricultural production and research in the field of plant nutrition, also carrying out demonstration activities on their own farm and/or experimental field.

Covid reactivity and online demo organisation

At the beginning of 2020, a global pandemic was declared, which imposed a number of restrictions, which mainly hindered the free movement of people, including the organization of physical demo events. Restrictions have been introduced to various degrees in different countries.

In a short period of time we had to change our plan and strategy for the upcoming demo campaign. The only possible way to continue the demonstration was to use digital tools or online demonstrations.

The most important question for us was how to best conduct an online demonstration that is not inferior in quality to a physical demonstration and how to ensure a good interactive connection between the participants.

The main difficulties in 2020 were the transition from 'on-the-field' to 'online' due to COVID-19 situation. The Network succeeded in finding alternative forms of knowledge exchange without losing the interest of farmers. For example, through the application of various methods to increase the interaction between participants during the demonstration events, by pre-collecting questions during the registration, so the lecturers had enough time to prepare relevant answers and present them in detail during the event.

In this regard several online meetings in Network 7 were held and we discussed our opportunities and experience in organizing online demonstrations.

Pandemic restrictions have been introduced to various degrees in different countries. For example, in the summer of 2020, in some countries there was an opportunity to organize physical demonstrations, but with a reduced number of participants.

Also, because of the situation of the COVID-19 the second cross-visit planned in 2020 for network 7 was postponed to 2021. The first cross-visit was carried out during the 1st demo campaign from 3rd to the 5th of July 2019, in Kassel, Germany.

- Technical Hot topic discuss into the network

At Network level, collaboration was more related to technical and demonstration subjects, with less discussion between hubs on specific topics. This is due to the fact that Network 7 hubs apply different approaches in the Horticulture sector and focus on are different issues. In Spain and the Netherlands, the focus is on high-tech greenhouse production, in Germany on organic production, and in Bulgaria mainly on field vegetable production. However, the exchange of knowledge on the network level was supported by NAAS, by offering various tools, including sharing various video and written materials between the participants in their native languages.

During the online meetings, topics related to the good organization and carrying out of demonstration events were discussed. This included topics such as the optimal number of participants, the best time for a demonstration event (physical and online), additional materials and suitable environment conditions.

As a good practice, we identified the preparation of a pre-recorded video, which clearly shows the demonstrated object. The video is broadcast during the online demo event, followed by a question-and-answer session.



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Network 8: Water use efficiency in Horticulture

Network 8 Final Video: <https://www.youtube.com/watch?v=q26uGQezPMI>



Hubs	Total events	Total participants
Netherlands	18	1061
Poland	17	1289
Portugal	16	722
Spain	21	698
Total général	72	3770

- Network life and progress

Network 8 (NW8) brought together four diverse hubs, each working in different cropping systems: greenhouse vegetables in substrate (NL), greenhouse vegetables in soil (SP), vineyards (PT) and open field fruit and vegetables (PL). Despite this diversity, we had strong common themes of optimising water use efficiency and protecting water resources. Throughout the project, NW8 was very active with regular on-line meetings. During the most active period for demo events (until early 2022), the on-line meetings were generally held every two months. During particularly busy periods and when adapting to COVID they were held monthly. These meetings provided a fluid and open exchange of information between the hub coaches (HCs). All HCs openly discussed what worked, and what did not work so well in their demo events. Suggestions, based on experience, were constructively offered. The meetings were a very effective and constructive forum for working together as a team undertaking similar work in very different environments. The other major components were Cross Visit planning, DAP development, and sharing of information on deadlines and of observations from other project meetings. On a number of occasions, other members of the project participated to clarify initial doubts about demo events, to work collaboratively on the DAP, to explain the AKIS workshops etc.

Network 8 held three successful and very different Cross Visits, in Alentejo, PT in 2019, in Bleijswik, NL in 2021, and in Almeria, SP in 2022. In addition to discussions in the on-line meetings, there was also ongoing exchange, by e-mail, between NW8 members when planning Cross Visits to provide feedback and to discuss the evolving plans.



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- Covid reactivity and online demo organisation

COVID required a rapid adaptation to on-line demo events, which were mostly webinars. The NL hub had some prior experience which was beneficial to other three hubs. The regular on-line network meetings were very useful to exchange experiences on the adaptation to on-line activities. The honest sharing of experiences, both good and not so good, was very helpful in this adaptation. With time, all hubs adapted to holding virtual demo events as webinars. The Polish hub was able to adapt rapidly because of the infrastructure available as CDR is an organisation with a large advisory role. The NL hub collaborated with a large growers' association to provide demo events as webinars. This provided access to a large group of farmers on relevant topics. However, there were some problematic issues with the association that had firm ideas and was not receptive to some relevant activities for P2P learning such as the use of break out rooms. The SP hub learnt the value of collaborating with organisations (e.g. farmer associations) with good infrastructure and capacity to attract farmers. The PT hub also learnt the value of collaboration for holding on-line events and for attracting attendees.

- Technical Hot topic

There were two technical hot topics that arose in the Cross Visits and our general demo activities. These were: (1) the practical use of soil water sensors for on-farm irrigation management, and (2) optimising the effectiveness of recycling nutrient solution in substrate-grown vegetable crops in greenhouses. In the case of (1), the issue is how to facilitate the use of these systems by growers, and in the case of (2), how to minimise the accumulation of undesirable elements (pesticides, sodium, chloride) in recirculating solutions, and their subsequent release to natural water bodies.



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Network 9: Pesticide use reduction in the production of grapes, fruits and vegetables

Network 9 Final Video: <https://www.youtube.com/watch?v=upvsm50MwhE>



Hubs	Total events	Total participants	
Bulgaria		15	733
France		19	2429
Germany		15	327
Portugal		14	535
Spain		18	424
Total général		81	4448

- Network life and progress

Network 9 is animated by IFV who supported the hub coaches in the organisation of demonstration activities by providing advice, support and maintaining a permanent link with the Work Package Leaders. Network activity included the animation of the network through regular skype meetings with hub coaches, organisation of demonstration activities by hub coaches in their country and support of hub coaches in their difficulties. IFV carried out ten meetings in order to boost its network. The first one was in December 2019, where a review of the year, demonstrations activities organized and feedback on cross visit were discussed. Then, in February 2020, the network worked on DAP 2 with the definition of an action plan. In April of 2020, the topics were to work on DAP 2 and preparation of the demonstration campaign 2020, the difficulties encountered dues to Covid-19 and discussion around virtual demonstration. In September 2020, there was a review of the year and first preparation of the demonstration campaign 2021. In October 2020, support for the knowledge exchange exercise was provided. In 2021 three meetings were organised in March, April and September : the two first ones were dedicated to discuss the functioning of the platform, make an assessment on plans and expectations for the end of the year and deal with virtual demos improvement. The meeting of september was an opportunity to discuss about CVs : which model to follow and how to rebound if restrictions persist. At last, in 2022, two online meetings were organised. One to organize concretely the two CV that were missing, and one last at the end of the project to take stock of what have been achieved and how to substain the network over the time.



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Additionally, email exchanges allow the network leader to inform hub coaches on future tasks and meetings. A WhatsApp group was created by IFV after the kick-off meeting and was used to exchange information within the network, give feedback after a demonstration and exchange news.

At the end of the project, 81 demo events were organised in the 5 hubs, either on farm, in organisation or online. Each hub did at least one virtual demonstration.

- **Covid reactivity and online demo organisation**

As all networks, network 9 was impacted by Covid-19. Besides the conjecture, no major problems in organizing demo events were reported. Network 9 set ambitious goals in the beginning of this period in the DAP, but it was difficult to achieve all. In general, the network is going well and is achieving expectations, even if the number of events has decreased. Online demonstration events have been held in all hubs. One hub (UAL-Coexphal) created its own YouTube channel to broadcast demonstration and to reach the desired number of people planned to attract initially. In this sense, new opportunities were created and issues overcome, for example, issues of capacity limitations due to COVID (rooms typically limited to 50% capacity), and to follow those rules they have to limit the number of people that they expect to participate in the demonstration events. By relying on a YouTube channel and other social media, NW9 reached the desired number of people.

2020 campaign was below the objective because one hub (DE) only organized one event during the year. This Hub was facing difficulties due to Covid-19 because it's a small structure with a lot of field work to do, whose means do not allow it to organise virtual demonstrations, even though it managed to do one event with difficulties. Several events were planned for the end of the year 2020 but were delayed again to 2021. Even if 2021 was less impacted by covid restrictions, virtual demo events turned out to be an efficient lever.

- **Technical Hot topic discuss into the network**

- Presentation of biocontrol products to protect grapevine, test platform for downy mildew
- Pureveg&vine: contributing to reduce environmental impact of rop protection in vineyards and vegetables crops. Dissemination of alternative techniques in farmer's plots
- Enhancing biodiversity in orchards
- Use of bioinsecticides as an alternative of chemical products for pest control in organic red raspberry production
- Non-chemical approaches for IPM in vineyards
- Alternative approaches for control of root-knot nematodes in greenhouse vegetable production
- How to test the spray quality yourself?
- Breeding of robust pome fruit varieties for organic fruit growing
- Mating disruption: a sustainable control tactic for pest management of the vine mealybug
- Virtual demo-events, an online tool to motivate farmers to plant hedgerows and optimize biological control of pests
- Replacement of chemical control by alternative products (biocontrol and natural substances)
- Alternatives to chemical weeding by mechanical interventions and innovation by autonomous robots



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Network 10: You can Farm: Farm attractiveness

Network 10 Final Video: <https://www.youtube.com/watch?v=-R5LRBYRWhM&t=40s>



Étiquettes de lignes	Total events	Total participants	
Croatia	28	562	
France	23	995	
Germany	18	596	
Hungary	18	1177	
Ireland	16	1099	
United Kingdom	19	1638	
Total général	122	6067	

Network 10 hub coaches organized a total of 110 demo events, attended by almost 6,000 participants, during the lifetime of the NEFERTITI project. All hubs in the network met their farm demo delivery targets on average over the project (5 demo events for each of three demo campaigns). As with all networks (and indeed the overall NEFERTITI project), COVID-19, and the associated restriction on travel and outdoor gatherings, impacted on farm demo activities. However, Network 10 hub coaches were resourceful and managed to adapt their plans for both 2020 and 2021 to deliver a range of virtual demo events.

	2019 (1st Demo Campaign)	2020 (2nd Demo Campaign)	2021-2022 (3rd Demo Campaign)	Total (per partner)
Croatia	5	7	16	28
France	6	6	11	23
Germany	8	4	6	18
Hungary	7	4	7	18
Ireland	5	5	6	16
United Kingdom	6	5	8	19
Total (per year)	37	31	54	122

Table 1: Number of demo events held by Network 10



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As already indicated, the events overall were well attended, with an average attendance of 54 participants at each event in the 2019 – 2021 period. The greatest proportion of attendees were farmers (38%), followed by students (25%) and advisers (21%); suppliers, researchers, employees, consumers and policy makers made up 16% of the overall event participants. Given that the focus for our network was on highlighting the attractiveness of farming as a career, it was satisfying that students made up such a significant proportion of our event participants

Participant type	Number	%
Farmer	2281	38%
Adviser	1299	21%
Student	1542	25%
Supplier	97	2%
Researcher	289	5%
Employee	253	4%
Consumer	189	3%
Policy maker	116	2%
Total	6067	100

Table 2: Number of participants at Network 10 demo events held in 2019 - 2021

- Network life and progress

From the outset of the project the Network 10 members agreed to schedule a monthly video call to “keep in touch” with one another, and to support one another in the delivery of the NEFERTITI project objectives. This monthly call proved to be extremely valuable, and especially in 2021, when a range of guest speakers were invited to participate in our calls – with each hub coach identifying a relevant “expert” from their country to share their experiences in the area of farm attractiveness with us. A list of the guest speakers is provided in Table 3.

Guest speaker	Topic	Country	Month
Tim Ashmore	Kildalton Agricultural College – attracting new students	Ireland	February
Marguerite d’Andlau	Preparing to be a farmer in France	France	March
Agnes Jakab	Career guidance activities of the NAK	Hungary	April
Jasmina Vagan	Education in Agriculture in Croatia	Croatia	July
Gail Robertson	Ringlink: training and skills development	United Kingdom	September
Martina Schaff	Farm Searched and Found	Germany	October

Table 3: Network 10 guest speakers (2021)

In addition, WhatsApp groups were set up at both the network and hub levels.

Cross visits were a key activity in the NEFERTITI project. Network 10 organized a total of three cross visits: United Kingdom (July 2019), Ireland (October 2021) and France (July 2022). The aim of the cross visits was to share experiences relating to farm attractiveness/ succession/ progression and included all of the following elements: kick-off, field visits, reflection, social activity and feedback. The cross visits created opportunities



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for intensive interactions between Network 10 colleagues and other actors from partner countries. However, it should also be recognized that different partners encountered challenges in motivating people to participate in the cross-visit (given the time commitment), and that the language barrier was sometimes an obstacle to direct exchange.

One final networking activity worth noting is the Farm Attractiveness Week event of November 2021 (Appendix 1). During 2021, Network 10 hub coaches collaborated in the planning, preparation and delivery of a series of coordinated digital events (one per partner country, plus one overall event) all delivered during a defined time period. Details of the events delivered during Farm Attractiveness Week are included in Table 4 below.

Date	Event	Country
8/11/2021	How to become a goat farmer	France
9/11/2021	How can young farmers tackle the climate emergency?	United Kingdom
9/11/2021	Have you considered a career in agriculture? Collaborative farming as an entry model, advisor & farmer insights.	Ireland
10/11/2021	How to attract people to bee-keeping – an experience from Croatia	Croatia
10/11/2021	Cow-Stories: How to start a career in dairy farming & promote agriculture on social media	Germany
11/11/2021	Be an Agricultural Adviser	Hungary
12/11/2021	Network Wide live panel discussion exploring the common themes relating to farm attractiveness across Europe	All

Table 4: Network 10 Farm Attractiveness Week Events

At the hub level (within each partner country), Network 10 partners engaged in many networking opportunities, including attending events, collaboration with other projects etc. A selection of the networking activities engaged in at country level are included below.

Country	Partner	Networking Activity
Hungary	SZE	Agrartajolo (Agricultural Compass); Precision Agriculture Exhibition ; FarmOn hub; NAK Farmland Days and Agricultural Machinery Show
Ireland	Teagasc	IASTA annual conference; Teagasc Open Days; collaboration with NEWBIE project
United Kingdom	James Hutton Institute	NEFERTITI stand at Royal Highland Show (2019, 2022); Arable Scotland (2018, 2019 in person, and online booth in 2020); collaborative virtual demo with NEWBIE project.
France	IDELE and CRAN	Annual meeting of the French NW 10 hub
Croatia	ASC (MofA)	Annual meeting of beekeepers in Primorsko-goranska county (Opatija); Annual meeting of beekeepers in Sisačko-moslavačka county (Zrin)
Germany	GLZ	Hub WhatsApp group

Table 5: Selection of Network 10 networking activities at country level

- **Soft skills learnings:**



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Our demo events mainly featured new or recent entrants to farming sharing their story and experiences with the demo event participants. Our events also provided an opportunity for us as facilitators to apply the lessons from the Farm Demo training kit in planning, delivery and evaluation.

The most successful demos involved motivated farmers with an interesting story to tell, and with plenty of opportunities for the participants to see, touch, taste and smell. Collaboration with another EU project, NEWBIE, and other organisations, in the planning and delivery of events allowed us to access multiple channels for promoting the event, as well as connecting with new, and relevant target audiences. We were also pleased with our online Farm Attractiveness Week, during which we delivered a coordinated series of digital events over the course of one week. Hub coaches learned over the project how to attract more attendees and the value of open discussion between multiple actors at their demo events. Event planning was key to a successful outcome.

COVID-19 meant that our demo events in 2020 and 2021 were largely held online. While this forced us to be innovative, it also brought challenges, not least in 2021, when there was evidence of farmer apathy towards online demo events in some countries.

The various guidelines and training kits provided by the project coordinators were helpful in providing guidance, but ultimately it was the practical application of the guidelines (often in partnership with others) which helped to develop, and improve, the various skills relating to the planning, delivery and evaluation of our in-person and virtual demo events.

Strong relationships were developed with key agricultural stakeholders through co-organising demo events. This has allowed for knowledge exchange on both technical aspects of the network (e.g. opportunities to support new entrants to agriculture), as well as shared learning on facilitation and communication relating to farm demonstration events (e.g. application of the Training Kit, bringing in learning from the Scottish monitor farm programme, etc.). The key to building up the network was to get to know individuals and organisations already working in the NW10 thematic area (including linking with other EU funded projects) and to meet people who are well versed in the topic of entry into agriculture or who already have an existing network.

While all Network 10 partners had previous experience in the “art” of engaging farmers, and other innovation actors, all partners learned new skills, particularly in the area of planning and delivering engaging online/ virtual demonstrations. These skills are now embedded and can be used at future events, and can be passed on to colleagues in the partner organisations.

- **Technical learnings:**

The objectives for our network were three-fold:

- To create a network of farmers, and other stakeholders, who are passionate about the promotion of farming as a career;
- To promote farming as a career with / to people across Europe; and
- To promote new pathways to allow more people to become involved in farming as a career.

While Network 10 may not be considered a “technical” network (there is no reference to animals, crops, agronomy etc.), there were nonetheless technical aspects to this thematic area. At the network level, these more technical issues were discussed during our network meetings. Of note here were the various guest speakers who shared their experiences with our network during 2021 (Table 3). At the country level, quite



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often these technical issues were addressed by the host farmer or other actor at the demo event e.g. host farmer describing their journey to farm ownership.

This network also addressed the challenge of trying to make farming appear more attractive by highlighting the newest technologies – to showcase that agriculture and farming is embracing technology and science to good effect.

A hub was established in each partner country, and hub members contributed to the planning and delivery of the annual programme of events. Hub members ensured that key technical learnings relevant to the theme were adequately incorporated into our events.

- **Impact of NEFERTITI on farmers and organisations (advisory):**

In Scotland, the NEFERTITI Hub was able to support demo events organised by key stakeholder agricultural organisations. This had a positive impact for both achieving NEFERTITI aims and meeting the needs of stakeholder organisations, for example, bringing together experts with young farmers, to focus on a particular topic (e.g. opportunities for land access, or pursuing nature friendly farming practices).

In Ireland, the organisation of our demo events deepened our relationship with the Irish Agricultural Science Teachers Association (IASTA).

In Croatia, some local beekeeping associations reported an increase in the number of new members after the NEFERTITI demonstrations in their area.

NEFERTITI provided our network the opportunity to develop our skills in farm demo delivery, to get to know and develop strong relationships with colleagues across different EU countries and contribute to the promotion of farming as a career. We will all be able to apply the lessons learned and the experiences gained in our future work.

- **Sustainability:**

A challenge identified by a number of hub coaches was the long term sustainability of this demo farm model of knowledge exchange in their country in the absence of a specific project or funding to support demonstration farms and associated events.

In a number of the partner countries, the network's theme (farm attractiveness) will continue to be promoted through maintaining informal networks of support with key actors.

Partners will also seek to secure funding to support future demonstration farms/ events. In Ireland, for example, Teagasc has established a new network of demonstration farmers (the "Signpost Farmers" www.teagasc.ie/signpost), and while not specifically focussed on farm attractiveness, a number of them are new entrant/ young farmers and could potentially be used for future farm attractiveness events.

In addition, five of the six Network 10 partners are also partners in the new Horizon Europe funded, ClimateFarmDemo project. This will allow these five partners to further develop the role of demonstration farmers and demonstration events in practice change, albeit in this case it will be in the area of climate change/ climate action.



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4 Cross cutting analysis of monitoring and evaluation

More details on this topic in:

Deliverable 5.3: First set of monitoring reports on carrying out effective demo activities on-farm

Deliverable 5.4: Set of reports originating from the collective learning within the cross-reflection process

The Hub coaches have filled in a “Hub Monitoring and Evaluation Journal” to monitor and assess their activity and events organisation. The aim was to share the content of this tool with the project coordination team (especially the work package 5) and their networks members: network leader and other hub coaches. The main idea is to implement and share with Nefertiti stakeholders a continuous improvement of the event organisation. The analysis of the 2019 and 2020 “Hub Monitoring and Evaluation Journal” has given main lessons to improve each step of the event organisation in 2021.

During the preparation of a demo event the organisers should cooperate with local stakeholders such as farmers, advisors, private companies, policy makers... This local cooperation is key in preparing a demo event in order to ensure the construction of a relevant program which suits with local expectations. This team could also choose interesting and inspiring speakers, share responsibilities according to fields of expertise (clear division of roles) and allows to share the organisation with events already planned. Promotion has to be widely spread through different channels, in order to reach diversified targets. However, it is also important to set clear objectives for the demo event to reach out to the appropriate target audience. As promoting the event requires time and budget, it has to be sufficiently anticipated and spread along a longer period, with a peak before the event. Examples of tools to use for promotion are leaflets, e-mails, SMS, internal communication in farmers’ organisation, website, social media (e.g. Facebook, twitter, WhatsApp), local press. The organisers should have a detailed plan and program for their events. The planning should specify the (realistic) time needed for each part of the program and should include role divisions for the organising team. Allocating time for exchanges and questions is a key to enhance peer to peer learning.

The event organisation should follow the initial program as closely as possible. The speakers have to adjust the contents to the time that has been assigned to them. The role of moderator is really important to control the time of each part of the event with a dedicated timekeeper, avoid diverting from the topic of the demo and schedule specific time for exchange. In order to keep the participants attention, the organiser and speakers should diversify the type of supports and activities. They could give priority to hands-on approach, combine indoor moments with field trial visits during the same demo, valorise testimony of farmers and avoid only giving presentations. One of central goal of an event is to optimize peer to peer exchange. The hub coaches’ first year experience have shown that organising small groups is a good way to facilitate exchanges between participants especially the farmers. The role of moderator is again important to avoid that the conversation is monopolized by a single person and to stimulate interaction by pro-actively asking input from participants. Experiences show that informal moments are also important for peer-to-peer exchanges and learnings. In the event planning it’s therefore also really important to program coffee break, lunch or a drink in order to enhance the discussion between the participants.

The organiser and the host farmer always wanted to evaluate and improve their events. They shouldn’t underestimate the time for this evaluation, and should create the right tools to do it. A questionnaire filled in



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directly after the event is a good way to assess it. It should have clear objectives, be short and well designed to be analysed. It's also possible to organise a debriefing session. The event organiser could follow up the demo event by giving good and functional dissemination material during it, providing a quick report to the participants and sending key information to maintain the dynamic created by the demo event. It's also important to communicate on the event through local press and social media (provide material for that) and provide farmers a way to continue their discussions after the demo event (Facebook group for instance) or newsletter. All these practices are a good way to improve the organisation, attract more people and ensure success for future events.

Due to the COVID19 crisis, hub coaches organised 106 virtual demo events in 2020 and 107 in 2021-2022 (see also figure 7). Most hub coaches managed well to organise online demonstrations. Good preparation (e.g. by preparing a detailed script), practicing the programme and testing technical aspects (platform, microphones, live feed, etc.) beforehand are key to organising a good virtual demo event. Interaction and discussions can be more challenging in online meetings compared to real-live events, especially since online events lack more informal exchanges between participants ('coffee-table talk'). Smaller groups and limiting the duration of the events are ways to ensure better participation and more dynamic discussions. Hub coaches found many different ways to organise virtual demos, for example by pre-recording videos, having a live-feed to talk to a farmer in the field, organising webinars, Q&A sessions based on pre-recorded videos, etc.

5 Conclusion

Nefertiti support 3 campaigns of demo events implementation which have engaged 10 networks, 45 Hubs and their members as farmers, advisors, innovative actors, researchers... They have collectively linked to Nefertiti 793 events (260 in 2019, 211 in 2020 and 322 in 2021-2022), which is more than the initial goals and expectations. They have been supported by the project with several tools, methodologies and guidelines to prepare, carry out and evaluate their events. They have shared qualitative event characteristics and quantitative results on the platform. All this information is public and give a global view of Nefertiti activity. There is a high diversity of event types with regards to the number and type of visitors, main goals and main methodologies used for the demonstrations. 45 000 people have participated in Nefertiti events, mostly farmers, advisers and students.



Annex 1: MS3.3 Action Plans for the third demonstration campaign

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6 Introduction

6.1 2020 on farm demonstration campaign report & learnings

2020 was the second annual campaign of Demonstration Events. They focus on showing and understanding innovation within a working farm context or within a local setting and deal with the Covid-19 constraints. Nefertiti has supported many different types of demo events, but they all have in common to base on a certain kind of knowledge exchange. The Nefertiti Hub Coaches have organized and connected to Nefertiti 262 demonstration events on their Network thematic in 2019 and 233 events in 2020. In 2020, 10 000 people participated in Nefertiti Events. In order to deal with the Covid crisis and keep the link with farmers and local AKIS stakeholders we've collectively organized 106 online demo events. Farmers were our first target and have represented 40% of the total visitors. With 2 200 participants in 2020, agricultural advisers and students represent 23% of the total. The events size, target audience, the main organisers, the demo methodology and goals have been very different. Also, despite the Covid pandemic we've reached our goal to support and implement different types of events with regards to the variety of demonstration among sectors cultural habits and AKIS specificities in the diverse European geographical areas.

6.2 What is a Hub Campaign Plan?

The main task of a hub is to **prepare, carry out and evaluate demo events** in its region/country, on its specific theme (starting in spring 2019). So for every year (2019, 2020 and 2021) the Hub Coach with the Hub members has to coordinate a Hub Campaign Plan which consists to run a loop of actions (figure 1). In order to develop a global view of Nefertiti the idea is to share this plan directly online, on the Nefertiti Platform. For each step, we propose tools and guiding documents to be used to run the Hub Campaign Plan. Across this document, we will refer to them.

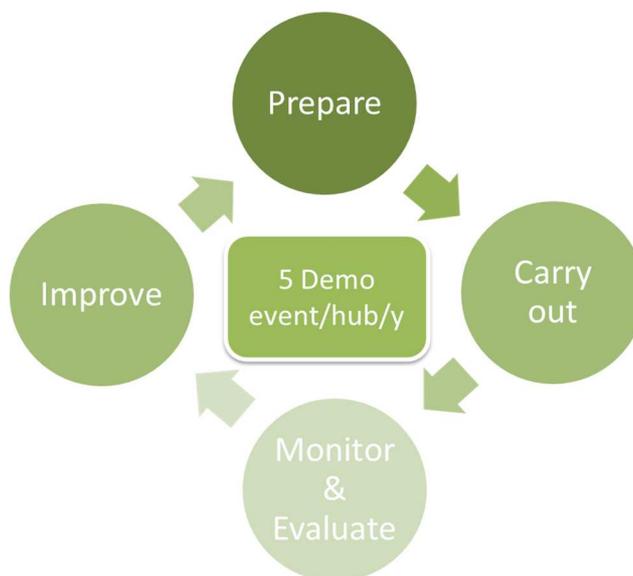


Figure 1: Structure of the Hub Campaign Plan



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6.3 Overall objectives

Actions to do: define with the Hub Members your Hub aims and Events objectives

Each hub Coach has to motivate Hub members to participate to the event organisation and to be present during the events. The hub role is to federate and/or organize approximately 5 demonstrations per year, on commercial farms (3-4 demos) & on experimental farms (1-2 demos) related to the network topic. The events will be based on several objectives and good practices:

- Stimulate knowledge exchange
- Use multi-actor approaches
- Bring together innovation actors and demo farmers
- Promote peer-to-peer learning
- Adapt the knowledge to the need of the farmers according to their sector and their country
- Improve science-practice interactions
- Be adapted to each regional/national specific needs/background

6.4 What is a demo event?

Demonstration events focus on showing and understanding innovation within a working farm context or within a local setting. There are many different types of demo events, but they all have in common that they are based on a certain kind of knowledge exchanges: farmer to farmer and farmer to innovations actors (advisers, researchers, input providers...). These exchanges can have multiple forms, e.g. dissemination of knowledge, provision of advice and solutions, co-design of tools and conduction of research. This shows that demo events can be composed of multiple activities depending on their objectives.

If the event respects the overall objectives (point 1.2) Nefertiti will support a wide range of Demo Events. These events can be divided on two characteristics scales (figure 2):

- the number of participants: from less than 20 to more than 200 in relation with the global objectives, the location, the partnership and topic attractiveness
- the degree of peer to peer learning: events could have the aim to maximise the exchanges between farmers with a high level of peer to peer learning or to maximise information and innovation propagation.

The figure 2 places some events example on this 2 scales. All this examples could be supported by Nefertiti.



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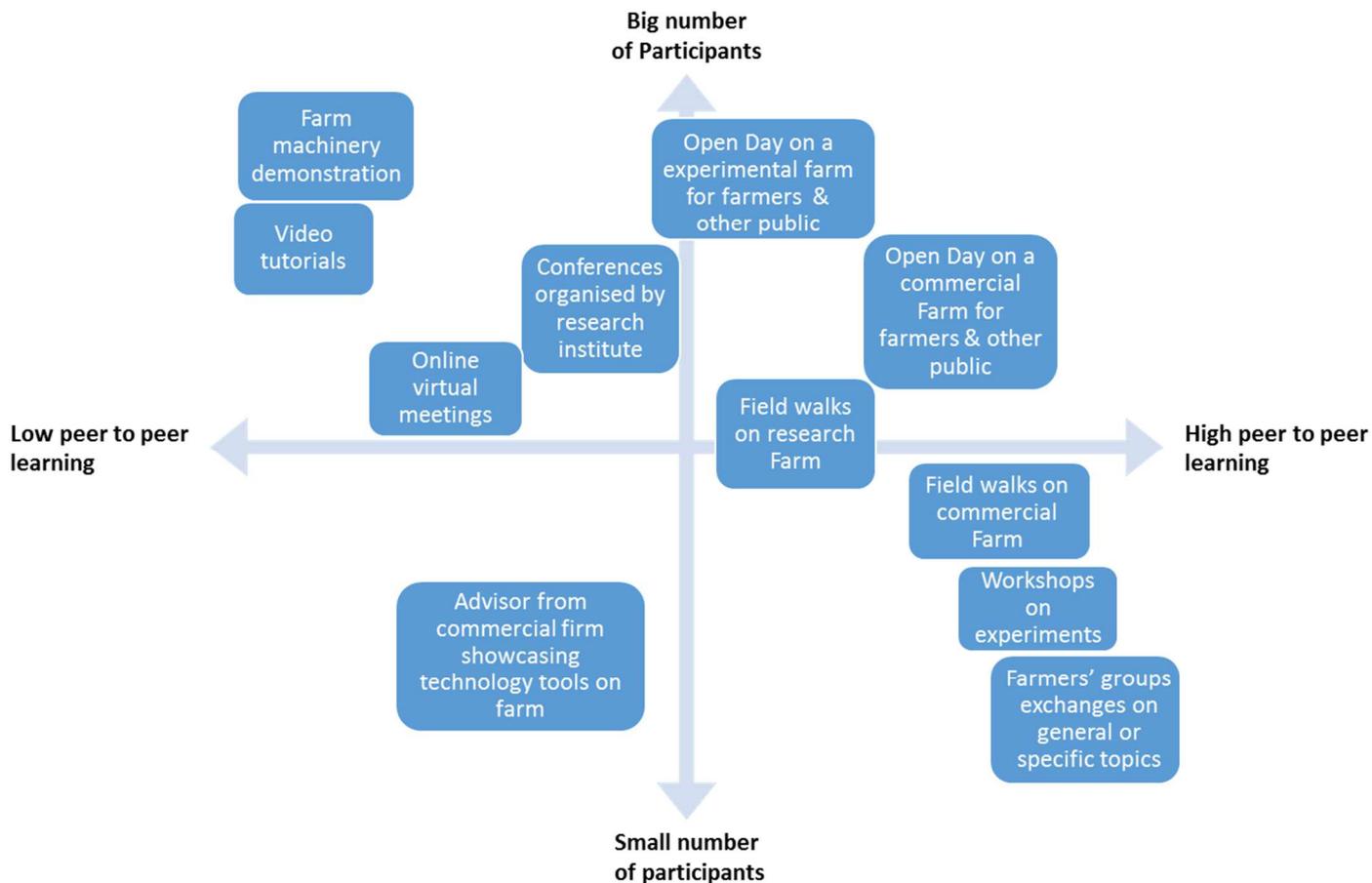


Figure 2: Demo event examples placed on a two main characteristics scale

In other words the events could be:

- Hosted on commercial farms, roughly 80% of the demonstration activities in Nefertiti
- Hosted on experimental stations roughly 20% of the demonstration activities in Nefertiti
- **Held online: virtual meeting, webinar, video tutorial, chat and forum... To deal with the Covid this 106 online demo event were organised in 2020.**
- Held inside : conference, workshop, training session on concept and theory or farms' results analysis
- Held outside: field trip, demonstration (machinery, tools, practices), practice training sessions...
- Targeting a small groups of farmers (e.g. only innovator or forerunner farmers), large group of farmers ('average farmers') or a large number of different kind of visitors (farmers, advisers, suppliers or farm produce buyers, consumers, students...)
- Focussing on peer-to-peer learning between farmers or focussing on knowledge and innovation transfer to farmers and others participants.



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7 The annual Hub Campaign Plan

The 'Hub M&E Journal' is an Excel file containing: 1) a tab for the Hub Campaign Plan; and 2) separate tabs for monitoring and evaluation of the hub meetings, demo events, cross visits and the annual hub report. The first tab of the Hub M&E Journal is entirely dedicated to the Hub Campaign Plan. This tab consists of two parts: Part A: Hub Objectives and Part B: Planning Hub Activities and M&E Scheme. The Hub Campaign Plan should give the monitor an overview of activities, but also guides the monitor towards the remaining tabs for monitoring and evaluation in the Journal. Annex 1 provides instructions to help fill in the hub Campaign Plan.

7.1 Prepare

Actions to do: complete the Hub Campaign Plan – (in Hub M&E Journal) + fill in the Event Form on the Nefertiti Platform (Protocol on Annex 3)

<https://nefertiti-h2020.eu/NefertitiPortal/#!/app-h/networks>

2019 & 2020 Learnings: tips and tricks to improve your Events preparation

Objectives

- integrate an element of learning in the objective of an event: what should be the learning outcome? what lessons should participants take home?
- make use of the Monitoring checklist for the organisation of a demo event

Cooperation with local stakeholders such as farmers, advisors, private companies, policy makers etc. is key in preparing a demo event :

- it ensures the construction of a relevant program which suits with local expectations and to choose interesting and inspiring speakers
- it enables to share responsibilities according to fields of expertise (clear division of roles)
- it allows to share the organization with events already planned

Promotion has to be widely spread through different channels, in order to reach diversified targets.

As it requires time and budget, it has to be **sufficiently anticipated and spread along a long period**, with a peak before the event: leaflets, e-mails, SMS, internal communication in agricultural cooperatives, website, social media (Facebook and twitter), local press.

A **good timing planning** helps to stick to the program:

- Specify the time needed for each part of the program and be realistic about it (especially keep time for exchanges and questions)
- Keep time for unexpected tasks and things that cannot be done beforehand

Virtual Demo Organisation:

Preparing a detailed script, pre-recording videos, practicing the programme and testing technical aspects (platform, microphones, live feed, etc.) beforehand are key to organising a good virtual demo event.

Online meetings should be 1,5-2 hours maximum

The first step of the annual campaign plan consists of preparing and communicating on the 5-6 Hub demo events for this year. Remember that the preparation has to engage strongly the Hub Members. To collect information on all planned events you will need to fill in an online 'Event Form'. The questions on this form are copied in Annex 3 for you to get an overview. Concerning the topics on this form, the Hub Coach should explain the Hub global aims, challenges and events expectation for 2019. Then s/he will share the basic information



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on the content and the objectives for each event and indicate the farm (or other organisation location) where the event will take place. The final topics concern the main information and characteristics for each event (Annex 3). Example of this characteristics:

- The actors involved and their role: farmers, demonstrator, facilitator, researcher
- The number and type of attendees
- The main way to present: video, leaflet, conferences, farmers' witnesses, field trip, machinery-tools demonstration...
- The main way to promote the event: Mailing list, website(s), Social media, Newspaper, Radio...

The synthesis of these events will provide a global view of the Nefertiti activities.

To help you to plan your activities effectively, you need give an overview of your activities in the Hub Campaign Plan. You can do this easily by filling in the first tab in the Hub M&E Journal at the beginning of the year and update it during the year when needed (Annex 1). This Campaign Plan has the following sections:

- Campaign year hub objectives
- Hub challenges
- Selection of showcase demo
- Hub activities (that includes the demo events but also other activities)
- Monitoring and evaluation scheme

Note: in developing your Hub Campaign Plan, also closely look at the Dynamic Action Plan of the network that your hub is part of. This plan co-determines the objectives of your hub while the activities of your hub should contribute to reaching the objectives of the network.

Concerning the Hub activities, part B of the campaign plan contains an overview to identify the most important characteristics of all activities and an indication of the monitoring of the activities.

7.2 Carry Out

Actions to do: use the Communication Kit + Communicate on the social media (protocol on Annex 4)

<https://nefertiti-h2020.eu/NefertitiPortal/#!/app-h/networks>

2019 & 2020 Learnings: tips and tricks to improve your events organisation,

Attractive content

- content that stimulates interaction and reflection: icebreakers, quizzes, virtual material, visual aids, plots & field demo's.
- Learning by doing instead of learning by listening: clinics to train skills in the field, demo's where you can smell, feel, taste, do.

Keeping time is essential in order to be able to follow the program:

- Start on time
- Ask the speakers to adjust the contents to the time that has been assigned to them
- Control the time of each part of the event with a dedicated time keeper
- Avoid diverting from the topic of the demo



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- Schedule time for questions
Diversify the type of supports and activities to keep the attention of the audience:
- Give priority to hands-on approach
- Combine in-door moments with field trial visits during the same demo
- Valorise testimony of farmers (storytelling)
Optimize peer to peer exchange
- Organise small groups, with group leaders, to facilitate exchanges between farmers. Avoid that the conversation is monopolized by a single person but facilitate that people listen to each other
- Program informal moments (coffee break for instance)
- Stimulate interaction by pro-actively asking input from participants
- Avoid only giving presentations and incorporate a hands-on part in the program
- Stimulate reflection by making use of the ORID method
Virtual Demo :
Interaction and discussions can be more challenging in online meetings compared to real-live events, especially since online events lack more informal exchanges between participants ('coffee-table talk'). Smaller groups and limiting the duration of the events are ways to ensure better participation and more dynamic discussions. Hub coaches found many different ways to organise virtual demos, for example by short pre-recording videos of the demo-farmer to demonstrate the evolution of a situation, having a live-feed to talk to a farmer in the field, organising webinars, Q&A sessions based on pre-recorded videos, etc

The main objective of this part is to run the selected demo events. The Hub Members have to participate as much as possible to the demo events and organize a profound communication on Nefertiti. The Nefertiti team will provide a Communication Kit with several elements. The aims is to;

- Use the goodies and Nefertiti communication tools: Logo, flags, T-Shirt, Leaflet, poster...
- Communicate on the social media (Annex 4, protocol to communicate on the social media)
- Share pictures, videos, leaflet (...) on the Nefertiti Platform and social media (Annex 4).

To be able to draw lessons from each demonstration it is important to monitor these. See Annex 2 on how this can be done.



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7.3 Evaluate and Improve

Actions to do: read the M&E manual + use the tools which are provide to help you to monitor and evaluate your activity (Annex 2) + Fill in directly after you event the online questionnaire to share the event results)

2019 and 2020 Learnings: tips and tricks to improve your events monitoring and evaluation, Include Virtual Demo Organisation

Don't underestimate the time for evaluation (questionnaires to participants and debriefing session). Fill in directly after your event the online questionnaire to share the event results

Make use of the exit poll to get feedback of the participants

Pay attention to **follow up** after the demo event

- Provide the participants with a quick report of the meeting (summary, pictures, videos, links,...)
- Send key information (attendance list, technical documents, training courses, etc.) to maintain the dynamic created by the demo event. Pay attention to GDPR guidelines here!
- Generate good and functional dissemination material during the demo day (one person dedicated to taking pictures for instance)

Communicate on the event through local press and social media (provide material for that) and provide farmers a way to continue their discussions after the demo event (Facebook group for instance) or newsletter

Virtual Demo Event

Use online questionnaire could be a good way to monitor your online event. You could make use of the questions of the exit poll

Call directly some key stakeholders after the event in order to collect their view

Directly after the event the Hub coach has to fill in the online questionnaire. On the agenda you should open your event and on the bottom of the page click on "Edit". The questionnaire is opening, fill in the "Questions to answer after the event" and click on "update" (see annex 4).

An important aspect of the Hub approach is that the hubs explicitly try to learn from what is done in one year to improve the approach in the following years. Thus, it is key to evaluate all activities and to try and learn from what happened. To be able to do this effectively, it is important to use a structured method to observe what happens at demo events and other hub activities. This is called 'monitoring' and the combined approach of this observation and drawing lessons from it is called 'monitoring and evaluation' (M&E) (see figure 1 above).

M&E thus is a key ingredient of the NEFERTITI approach that may be new to many of the Hub members. To help you to use M&E in your hub, Annex 2 gives a brief description of the background of M&E, a description of how it can be carried out and a description of some tools that can be used to do M&E. You are advised to read this carefully to be able to implement it in your hub activities.

For the first campaign year, most events should be monitored in a general way while one event should be monitored in depth by using the guidelines from Annex 2. This describes two M&E tasks, '**preparing M&E**' and '**carrying out M&E**'. Together with these M&E guidelines, four **tools and templates** are provided to assist you with the performance of the M&E process within your hub. These tools are:



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- The 'Hub M&E Journal': an Excel file containing separate tabs for monitoring and evaluation of the hub meetings, demo events, cross visits and the annual hub report.
- A 'Checklist' including important aspects and guiding questions for M&E of demo-events
- An 'Exit Poll' for demo events, which is a short questionnaire for visitors of a demo event.
- A tool/method for Team reflection, to guide you in the organisation of a session to evaluate the hub activities

Especially this last tool can help you to draw lessons on how to improve things for the next year.

The Hub M&E Journal is a document that is continuously updated after each demo activity and thus gives an overview of all that the hub has done. Furthermore, it provides a document to share your experiences with the other hubs in your network and it is a source to collect information on all hubs that will later be analysed in WP5. Hence, it is a key tool in the hub's learning process and in the project as a whole and you are asked to keep this up-to-date as well as possible during the Campaign year.

8 Annual Cross Visit

If possible with the Covid Constraints

Actions to do: Read and follow the manual for cross-visits + exchange with your network leader to plan the cross visit in 2021

Each Network will organise one Cross-visit per year. The Network Leaders together with the Hub Coaches choose a destination for a relevant Cross-visit in relation with the Dynamic Action Plan. The cross visit is organised during 1 or 2 demo-events of the chosen hub and host the others Hub' Coaches and foreign demo-farmers for 2 days.

The Cross-visit process is managed by the Network Leader together with the leader of the Cross-Visit (Michael Kuegler) and the hub hosting the cross visit. An annual Cross-Visit plan is settled at project level to advertise the events and allow whoever is interested to participate.

In 2020, due to the pandemic situation, there were no Cross-Visits. In 2021, this delay in the organizations of the Cross-Visits will have to be overcome. The Cross-Visits will be organized either in a face-to-face model according to the initial plans, if the pandemic allows, or through a regional model with only hubs from neighbour countries. If this is not possible, virtual Cross-Visits will be organized

9 Commitment from Policy Makers

National and regional Policy makers who expressed interest in NEFERTITI and beyond (other Policy makers that are not observers or members) are invited to participate in the demo events of the hub to show-case the added-value of demonstrations for spreading innovation and accelerating innovation uptake.

Policy makers are preferably invited to a large scale demo-event (where a large number of farmers attend) and to the Cross-Visit to show the European dimension of the project and the added-value of Networking in exchanging best practices and knowledge.



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10 Budget

There is a provisional budget included in each partner's budget for the organization and evaluation of demonstration activities. Note that the figures below are indicative and that additional costs can be made eligible if necessary.

To support demo-activities in the hubs (2019-2020-2021), which implies preparing, organising and evaluating the demo activity the hub coaches have:

- 1.54 person/month /year (more or less 20 days)
- 400 €/year on local travels
- 1350 €/year on other direct costs for catering, fees, hiring buses, rooms etc.
- 275 €/year/hub of consumables



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ANNEX 1: HUB CAMPAIGN PLAN INSTRUCTIONS

This document provides an instruction for filling in the Hub Campaign Plan tab in the Hub M&E Journal;. It consists of two parts that have to be filled in at the beginning of the Campaign Year. Part A concerns the hub objectives that has to be filled in by the Hub Coach. This part could be copy and paste into the Nefertiti Platform in order to communicate on the hub activity. Part B concerns a planning of hub activities and the M&E scheme that the hub monitor has to fill in.

Note: as indicated in the monitoring guidelines, it is recommended that the monitor is a different person from the hub coach but that in some cases it may be more practical that the coach also performs monitoring tasks. In that case, fill in both names in part B of the Hub Campaign tab and the hub coach and monitor can jointly fill in Part B.

Note: all text against a grey background has to be filled in or replaced by your own text in the first tab of Hub M&E Journal.

Part A: Hub objectives and action plan

A1. Campaign year Hub objectives (copy – paste in your Hub Description online)

Which objectives does the hub seek to achieve in this campaign year? Ask yourself what you want to have achieved by the end of the year, e.g. in terms of:

- Making farmers aware of certain new developments;
- Making other stakeholders or other actors aware of new developments;
- Providing specific knowledge to certain kinds of farmers, to other stakeholders and/or to other actors;
- Providing a platform for farmers to discuss new developments with fellow-farmers and others.

On each of these topics, try to be as specific as possible, e.g.

- by specifying the agrarian subsector.
- by specifying the type of farmer (e.g. the 'forerunner' farmer or the 'average farmer'), the type of other stakeholder (e.g. suppliers, buyers of produce), the type of other actor (e.g. policy-maker, general public, NGO). Also try to specify how many of these actors you try to reach, even if you can only give a broad range (e.g. 50-200 'average farmers').
- by specifying the type of new development (new technologies, new practices);
- by specifying the type of knowledge that you seek to disseminate.

A2. Hub challenges (copy – paste in your Hub Description online)

Indicate what the main challenges are that the hub faces to achieve its objectives. These can be of various kinds, etc.

- *The organisation of the hub:* e.g. lacking specific expertise, lacking organisational expertise
- *Policy environment:* specific policy regulations may make it difficult for farmers to change certain farming practices that the hub seeks to change; but other regulations may also stimulate or even force specific changes.
- *Economic pressure:* this may make it difficult for farmers in the sector to change certain farming practices that the hub seeks to change;
- *Network relations:* the network may (initially) lack relations with key stakeholders to achieve its objectives.
- *Public and political pressure:* Such pressures may stimulate change in certain directions.



<p>A3. Select showcase demo</p>
<p>Which demo event (1 every year) will be monitored in-depth? This is the Showcase Demo. It could be a life event or a virtual demo.</p> <ul style="list-style-type: none"> • Why is this demo event chosen? • How will the monitoring be performed and by whom (this should include an exit poll for feedback of participants). <p>Especially after your showcase demo, you should evaluate what happened and draw lessons on what can be improved next time. This evaluation should be based on the monitoring of this demo. Next to this, you are also advised to evaluate other demos, but somewhat less extensive than the showcase demo.</p>
<p>Part B: Hub activities and Monitoring and evaluation scheme</p>
<p>B1: Hub activities</p>
<p>Indicate which actions the hub will undertake in the coming campaign year to achieve its objectives. In these plans, take into account the challenges above. You can have various types of activities, for instance:</p> <ul style="list-style-type: none"> • Establishing relations with specific stakeholders; • Various types of meetings (some internal within the hub, some with stakeholders; also include virtual meetings (e.g. Skype)); • Evaluation meeting (to evaluate past activities, e.g. a recent demonstration); • Organise or co-organise demonstrations; • Network cross visits; • Annual meetings where hubs exchange experiences; • Media activities (indicate which media) to communicate the hub's plans or achievements with certain audiences. <p>Specify: 1) the main objective/title of each activity; 2) date of the activity; 3) who will take part in the activity; and 4) involved participants/stakeholders and their roles.</p> <p>Notes to planning activities:</p> <ul style="list-style-type: none"> • You can make a 'rough version' at the beginning of the year that can be updated during the year by adding lines, specifying dates, etc. <p>Details for each demonstration you need to fill in in the NEFERTITI online 'Event Form'.</p>
<p>B2: Monitoring and evaluation scheme</p>
<p>Who will take the role of the monitor? If this is done by different people (e.g. if the coach would also do monitoring tasks) clearly indicate who will do what during which activity. What is the relationship with hub coach? What are the responsibilities of the hub coach and the hub monitor.</p>
<p>Which monitoring tools will you be using during each activity?</p> <ul style="list-style-type: none"> • Tool for team reflection • Exit poll for Demo events • Checklist for Demo events
<p>Where will you report about your M&E activities?</p> <p>This should be one of the other tabs in the Hub M&E Journal. Which tab needs to be filled in?</p> <ul style="list-style-type: none"> • Hub meetings • Demo events



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- Showcase demo
- Showcase virtual demo
- Cross-visit
- Annual M&E report

Note: Annex 2 provides monitoring and evaluation guidelines and explains how/when to use these different tabs.

B3. Monitoring reports (A point of attention for all hub activities)

The HUB M&E Journal has a tab 'Annual M&E report'. You can fill this in by the end of the campaign year and submit it for use in other WPs.

During the year, however, there will also be meetings with your thematic network for which it is useful that hubs send each other some report on what they have done and learned so far. It is recommended that prior to such meetings you preliminary fill in some parts of the annual report and then send these to your partner-hubs from the network. In your M&E scheme, you should indicate when you will compile the preliminary versions of your annual report and send them to your hub partners, and when you will compile the final version.



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Annex 2: Monitoring and Evaluation Guidelines

Note for reading: These guidelines contain a lot of detail on doing M&E that you will not be able to grasp all at once. You are advised to first read it through once in half an hour or so to get a feel for what it is about. Subsequently you read it more closely to help you carry out the first steps that have to be taken in connection with M&E. After having gained your first experience with doing M&E you are advised to read it through once more to see whether there are things that you may have overlooked initially.

1 Introduction

This manual describes how monitoring and evaluation (M&E) by the NEFERTITI hubs should be carried out. The first chapter describes the **objectives** of M&E, the **role of the monitor** and distinguishes **two main steps** in connection with M&E. These two steps, **'preparing M&E'** and **'carrying out M&E'**, are further elaborated in the third and fourth chapter of this document.

Together with this manual, four **tools and templates** are provided to assist you with the performance of the M&E process within your hub. These tools are:

- The **Hub M&E Journal**: an excel file containing separate tabs for monitoring and evaluation of the hub meetings, demo events, cross visits and the annual hub report.
- A **Checklist** describing important aspects and guiding questions for M&E of demo-events.
- An **Exit poll for demo events**, which is a short questionnaire for participants of a demo event.
- A tool/method for **Team reflection**, to guide you in the organisation of a session to reflect on hub activities.

The text in this manual below refers **in bold** to these tools and indicates how they can be used.

2 M&E objectives, role of the monitor and main monitoring tasks

2.1 Objectives of monitoring and evaluation

Monitoring and evaluation of the NEFERTITI hubs has two general objectives:

1. To help the hub achieve its objectives. M&E provides input for a process of 'self-reflection' in the hub. This implies that the hub critically assesses its own activities and outcomes and, consequently, takes corrective action when needed.
2. To report the most important experiences in the hub. Hub monitoring reports are used as a source of input for learning at the NEFERTITI thematic network level and for the overall project assessment in WP1 ('Dynamic Action Plans'), WP4 ('knowledge reservoir') and WP5 ('Analysing lessons').

2.2 Source of M&E: The 'Hub Campaign Plan'

To fuel a process of self-reflection, M&E should be based on the hub's objectives and the activities. These will be specified in the 'Hub Campaign Plan' that each hub will develop and update every year as part of the WP3 activities.



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Starting in the second year of the NEFERTITI project (2019), each hub will compose an annual Hub Campaign Plan. The lessons learnt from the previous demo campaign year will be taken into account in the following demo campaign years. The Hub Campaign Plan will help to do this in a systematic way. its objectives?

2.3 M&E steps and responsibilities

2.3.1 M&E steps

The M&E process supports the self-evaluation of the hub's functioning and activities and reports the main achievements and learning by the hub. This is realised by taking the following two steps.:

1. **Preparing M&E**, including:
 - a. **Developing** a draft M&E scheme by using this manual as a guide.
 - b. **Discussing** the M&E scheme with hub partners to produce the final version. This version will be included in the Hub Campaign Plan.
 - c. **Adapting** the M&E scheme if needed.
2. **Carrying out M&E**, including:
 - a. **Observing and recording** what happens at hub team meetings and demonstration events.
 - b. **Reflecting** in the hub team on lessons learned and opportunities for future improvements.
 - c. **Reporting** on what is learned, to be used in different WPs in the NEFERTITI project.

These two steps are further elaborated in chapters 3 and 4 of these guidelines.

2.3.2 M&E responsibilities: role of the hub monitor

It is recommended that hubs assign a person other than the hub coach as the '**hub monitor**'. Within the project, the hub coach is responsible for the overall functioning of the hub. However, it will be difficult to combine the role of hub coach as overall facilitator of the hub, with the role of doing M&E. A hub monitor can take over the hub coach's responsibilities for self-evaluation and reporting on the main achievements and learning by the hub. The two following examples show the advantages of assigning a hub monitor:

- During hub meetings, the hub coach is primarily occupied with the question "are we doing things right according to the Hub Campaign Plan?". But for M&E there is also a more fundamental question: "are we doing the right things according to our objectives?" It is difficult to have both roles combined in one person, and the hub monitor can add considerable value here.
- During meetings or demo events a hub coach needs to be on top of everything that goes on and to facilitate the discussions and agenda. But the M&E process requires a focus on those things that may need improvement to achieve the hub's objectives. This requires taking a more reflexive stance. And the hub coach most likely not have the time and necessary distance to combine these responsibilities.

There may be practical barriers for appointing a dedicated monitor for all meetings and events because of limited hub resources and time. However, by using the tools provided with this document, M&E should not require a lot of time. It is up to the different hubs to decide for themselves how they will implement the role of hub monitor, taking into consideration that in the ideal case the coach and monitor would be different people.

In this document, we will further refer to the "hub monitor" as the person who is responsible for the M&E process. However, this role could also be played by the hub coach for specific occasions, if a separate person would not be available as hub monitor.



3 Step 1: Preparing M&E
3.1 Develop draft M&E scheme for the hub
The hub monitor needs to develop an M&E scheme as part of the Hub Campaign Plan, which is adapted to the needs of the hub. The M&E scheme describes how M&E will be carried out in the hub, i.e. which events will be monitored, which tools will be used and how the evaluation of the monitoring will be carried out.
A template for this M&E scheme is provided as part of the Hub Campaign Plan template (filename: Nefertiti - Hub Campaign Plan - Template.docx). Completing this template for your own hub will render a 1-2 page description of how you plan to do M&E.
To develop an M&E scheme, the following steps need to be taken by the hub team: <ul style="list-style-type: none"> • Appoint a hub monitor from the hub team; • Discuss roles and responsibilities of the monitor and the hub coach regarding M&E (e.g., if the hub coach would also carry out some monitoring tasks) ; • Identify the key elements that should be included in the M&E scheme using the template in the Hub Campaign Plan
The Hub monitor develops (possibly in interaction with the Hub coach) a draft M&E scheme based on the previous discussion.
3.2 Discuss the draft M&E scheme with hub partners
The draft M&E scheme should be discussed with partners to ensure everybody's participation in the reflection process on the functioning and impact of the hub's activities. The monitor takes the lead in this process and produces the final version of the M&E scheme so that it is supported by the whole team.
3.3 Adapt the M&E scheme if needed.
Each year, the hub must adapt its Hub Campaign Plan based on the experiences from the previous year. Accordingly, the M&E scheme also should be updated to match the objectives of the adapted Hub Campaign Plan. In addition, small changes may be useful during the demo campaign, resulting from direct experiences of applying M&E.

4 Step 2: Carrying out M&E
4.2 Observing
<i>4.2.1 Activities to monitor</i>
There are various hub activities that can be monitored to increase the Hub's effectiveness: <ul style="list-style-type: none"> • Hub meetings in preparation of a demonstration event



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- The demonstration event itself
- Hub meetings to evaluate a demonstration event
- Cross visits (where all hubs in one thematic network exchange experiences)
- Other thematic network meetings (at NEFERTITI annual meeting or skype meetings)

4.2.2 Observation and taking notes

During all these activities, the key task of the monitor is to observe and take notes of what occurs. This is the **monitoring** part of M&E. These notes can be entered in the **Hub M&E Journal**, which is provided as a separate template. This is an Excel-file with separate tabs for the various types of activities mentioned in section 4.1.1 above. On each tab, specific aspects of the activities are suggested on which you can enter notes.

To help you with completing the specific aspects of the activities in the **Hub M&E Journal**, a **Checklist** has been developed as a separate tool with guiding questions for the monitoring. This tool distinguishes the following aspects of a demo event:

- Objectives of the demo event
- Demo preparation
- Demo event (the demo itself)
- Demo impact

Instruction for use: At a meeting or event, have the related specific page (objectives, preparation, event or impact) from the **checklist** lying in front of you. The checklist indicates the issues to observe and questions you can ask yourself. On the basis of your observations in relation to each aspect, you can take notes in your **Hub M&E Journal**.

In addition to taking notes on observations, monitoring data can also be collected by other means. For example:

- Sound recordings;
- Photographs or videos;
- Questionnaires to gain feedback from participants of a demo event. For this purpose, a tool is provided, named "Exit Poll for Demo events".

4.1.3 Showcase demo and visitor questionnaire

During the year, the Hub team will organise various demo events. For most of these, a basic M&E should be carried out by using the **Hub M&E Journal** tab ('**Demo events**'). However, for one specific demo event, the '**showcase demo**', a more in-depth M&E should be carried out, by using the tab **Showcase Demo** in the **Hub M&E Journal**. (Because of the COVID situation, this could be a virtual demo too. There is a specific tab page in the Hub M&E journal for a virtual demo). Such an in-depth observation can provide better insights in what could be improved in the organisation of demo events and it can provide relevant input for the overall project analysis in WP5.

For this showcase demo, feedback should be collected from the visitors of the demo by using the provided questionnaire **Exit poll for demo events**. To be able to use this for your own demo, you need to translate the questions into your local language. Possibly, some questions should be adapted to the characteristics of your own demo.

At this showcase demo, it is recommended that some members of the hub team briefly interview a number of visitors (a few minutes for each interview) at the end of the demo and note down their answers on the questionnaire sheet ('**Exit poll for demo events**') on a clipboard. With the combined efforts of several people from the hub team and half an hour or 45 minutes at the end of the demo, several dozen feedback questionnaires can be collected that will give a more extensive impression of the visitors' views.



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Alternatively, visitors can be asked to fill in the exit poll themselves, but this may result in less control over the quality of the responses. Questionnaires may also be distributed and people asked to send them back later, but the risk is that there will be a low response rate.

For the showcase demo, some key factors in the 'context' of a demo event should be indicated. (See **Hub M&E Journal**, tab **Showcase Demo**, one column under '**Before the demo day**'). A demo event always takes place on a topic in a specific agrarian subsector. But other developments in that (sub-)sector (e.g. economic developments in the sector, public pressure for change, policy regulations, etc.), can also influence the impact of the demo event. When identifying and taking into account these contextual factors, the possible impact of a demo event can be increased.

Note for the monitor: Other hub members attending the demo event can assist in recording, e.g. by taking notes, asking visitors to fill in questionnaires, taking photos, etc. Afterwards, the monitor is responsible to process the information recorded by the others. Prior to the demo event you should discuss in the hub team how the monitoring at the demo event will be organised.

If more members of the team attend the demo, it is also useful that each of them fills in the associated page in the **Hub M&E Journal**. This provides a more diverse basis to evaluate the demonstrations afterwards.

We ask you to use the **Exit poll for demo events** in connection with the showcase demo. However, since this can be a very rich source for you to gain feedback on a demo from participants, you are advised to use these with other demos as well.

4.2 Organising team reflection

Everything noted in the **Hub M&E journal** can later be used to fuel the self-reflection in the hub team. This is the **evaluation** part of M&E. To do this, the team (on the initiative of the monitor and the hub coach) should put reflection explicitly on the hub's meeting agenda. Two very useful occasions for this are:

- A preparation meeting for a demo event. During this meeting the monitor should take care that the objectives and the activities for the demo event are well formulated. The demo objectives specify what the demo event seeks to achieve. The demo activities should guarantee that the objectives can indeed be achieved. If the objectives are not very clear and/or the activities are not in line with the objectives, it will be very difficult to assess later whether the demo has reached its desired impact. You can use the guiding questions on "demo objectives" in the Checklist to make this reflection.
- An evaluation meeting after the demo. This is intended to assess to what extent the demo has achieved the hub's objectives, to learn as much as possible on how things went and to draw lesson on how things may be improved for the next demo event. To assist this reflection, you can use the guiding questions on "demo impact" in the Checklist .

During hub meetings where you plan to reflect on the demo events, you can use various methods to stimulate active participation of hub members (post-its, flip charts, mind maps, making timelines, etc.). The document "**Team reflection**" provides some guidance on how this may be done. There may also be other familiar tools to facilitate reflection which may be used. .

To identify topics for reflection, your **Hub M&E Journal** is the key source. After each hub meeting, you are advised to reflect briefly on what you noted and identify the most important items that could be reflected on during a next hub meeting. Alternatively, some issues may be introduced immediately at the ongoing meeting, in interaction with the hub coach or the chairperson for the meeting.

For any demo, for which you have used the **Exit poll for Demo Events**, the answers from the demo participants will be a very rich source for reflection. Even if you did not use the exit poll at the demo, the questions from the exit poll may still help you to structure your own evaluation of the demo.



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General note on reflection: To evaluate the hub activities it is important always to do this against the background of the hub's objectives. The central M&E question is whether the demo-activities within the hub are actually stimulating learning by farmers and result in change of these farmers' practices. Simply stating that a demo event was a success because of a large number of participants will not be enough, as that can only be a partial objective. The objectives should also specify that farmers take home something from the demo that is useful for their own farm and farming practices. This does not mean that they start changing things immediately. It may also have stimulated them to first search for further information and advice.

To assess whether this has been achieved, it is key to reflect on whether a large number of demo participants actually helped to realise this objective. 'Digging deeper' may then reveal that some parts of the demonstration did not meet the needs of most participants so that little learning took place. These are important lessons for following demo events.

4.3 Producing monitoring reports

Hub monitors have to provide monitoring reports that will be used for exchange of experiences at thematic networks meetings and for further processing within the NEFERTITI project (WP5).

Templates for reporting are provided in the **Hub M&E journal**, in 5 tabs (see below). We advise you to take notes in the related sections of your M&E Journal immediately after each major event, such as a demonstration event, a cross visit or a thematic network meeting. Before each network meeting (including the Cross Visit), you can then send a preliminary version of your M&E journal to the partners to inform them of your progress thus far.

At the end of the campaign year you also need to fill in the tab "**Annual M&E Report**". However, you are advised to assess immediately after each meeting or event whether you have already learned things that can be put into the Annual M&E Report. Thus, you run less risk of forgetting important things when you fill in the final version of Annual M&E Report.

After completing your annual report at the end of the campaign year, you submit your complete **Hub M&E journal** for further analysis in WP5 and then start a new journal for the next year, using the same template.

The following tabs are especially relevant for reporting to the WP5 team for purpose of exchange of experiences between Nefertiti partners and cross-fertilisation :

- "**Annual M&E Report**"
- "**Cross Visit**"
- "**Showcase Demo**"
- „**Showcase virtual demo**"
- "**Demo Events**"
- "**Hub Meetings**"



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Annex 3: Protocol to Add an Event on Nefertiti Platform

Event form – register an event

1. Go to: <https://nefertiti-h2020.eu/NefertitiPortal/#!/app-h/networks>
2. Login as Hub coach (mail + password)
3. In main menu you will find button: Events – click on it
4. Choose Add event
5. Answer the questions



The access is given just to registered users – consortia members.

The questions that will be displayed are:

1. Network
2. Name of event
3. Beginning of event (date + time)
4. End of event (date + time)
5. Where your event will take place?
 - o In a farm
 - o In an organization
 - o Online demo Events

If “farm” is chosen, then a drop-down list is presented with following answers:

- Farm 1
- Farm 2
- Farm n
- Farm not registered – please provide exactly name and address of the farm (note: If you want to register farm, please click [here](#) and fill a survey.)

If “in an organization” is chosen, a drop-down list is presented with following answers:



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- Organization 1
 - Organization 2
 - Organization n
 - Organization not registered – please provide exactly name and address of the organization (note: If you want to register farm, please click [here](#) and fill a survey.) and fill a survey.)
6. Could you precise the main contents and objectives for this event? (max 200 characters)
7. Please translate main contents and objectives for this event in English.
8. Who is the main event organizer? Please choose just one answer
- You as Hub Coach or your organization
 - The host farmer
 - Supply chain company
 - Farmers' organization
 - NGO/charity and/or other agricultural development organization
 - Private/public extension or advisory service
 - Project activity
 - Other, please specify:
9. Who are the funders of the Event? Multiple responses possible, please choose all that apply:
- Funded by the farmer
 - Supply chain company funded
 - Public funded (regional, national, EU...)
 - Charitably/NGO funded
 - Farming organization funded
 - Advisory service funded
10. The demonstration provided is? Please choose just one answer:
- Free to all participants
 - Free to members of the organizing group/network/program
 - At a charge to all participants
11. What are the main goals of the event? Multiple responses possible, please choose all that apply:
- Innovation uptake (practices, machinery, tools...)
 - Farmer and rural networking
 - Local economic development
 - Improved environmental conditions
 - Competitiveness/Productivity
 - Regulatory compliance/Policy implementation
 - Other, please specify:
12. How many participants do you expect? Please choose just one answer
- <20



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- between 20 and 50
- between 50 and 100
- between 100 and 200
- >200

13. What is the target audience? Multiple responses possible, please choose all that apply

- Farmers
- Farm employees
- Public or Private advisers
- Consumers
- Supply chain actors
- Researchers
- Students
- Policy makers

14. How do you promote your activity /event? Multiple responses possible, please choose all that apply:

- Mailing list
- Website(s)
- Social media
- Newspaper
- Radio
- TV
- Leaflet and poster
- SMS
- Other, please specify:

15. What is the source of the objects or practice(s) demonstrated? Multiple responses possible, please choose all that apply:

- Farmer's own innovation
- A research-led innovation
- An industry- led innovation
- Other, please specify:

16. Which are the typical demonstration methods used during the demonstration events? Multiple responses possible, please choose all that apply:

- Oral presentations/seminar ('expert'-led)
- "Demonstration display" (e.g. equipment, machinery)
- Farm-field walks
- Videos
- On-line tutorial
- Hands-on experience/training sessions/workshops
- Interactive discussion (e.g. facilitated group discussions, round table, ...)
- Other please specify:

17. Who are the main presenters/facilitators during the demonstration events? Multiple responses possible, please choose all that apply:



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- Farmer
- Public/Private advisor(s)
- Researcher
- Students
- Policy maker
- Funder
- Supply chain actor
- Other please specify:

18. Link to event web resource

At the end, option for document upload is foreseen:

Documents related to event



In questions that foresee multiple answers, they can be chosen by holding "CTRL" during choosing answers. Alternatively, they can be chosen one by one, without "CTRL"

Event form – report about your event

After the event has been organized, the HC / NL is expected to answer post-event questions. In order to find these questions, following steps should be taken:

1. Go to: <https://nefertiti-h2020.eu/NefertitiPortal/#!/app-h/networks>
2. Login as Hub coach (mail + password)
3. In main menu choose your Network
4. Choose your hub
5. Scroll down to the events calendar
6. Choose your event
7. Scroll down and choose Edit
8. Answer the questions at the bottom of the page and click on Update

The post-event questions are:

1. How many people did participate to this event?
2. What is the precise or estimated % of ? (Please try to reach 100%)
 - Farmers
 - Farm employees
 - Public or Private advisers
 - Consumers
 - Supply chain actors
 - Researchers



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- Students
 - Policy makers
3. How many demonstrators-speakers did present something on the event?
 - Farmers
 - Public or Private advisers
 - Researchers
 - Students
 - Policy makers
 - Funder
 - Supply chain actors
 - Other
 4. Please, describe the event implementation (max 500 characters)
 5. Please, describe the event implementation in your local language (max 500 characters)
 6. Link to event web resource
 7. Please upload picture / logo / event agenda / some other document that would make your event be more visible and appealing.

For the last question, the following button appears for the documents to be uploaded:





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Annex 4: Social media communication protocol

The main aim of this protocol is to help hub coaches to prepare materials for the promotion of Demo events on NEFERTITI Social Media Channels. Each event should be promoted with at least 2 post:

- Announcement / Invitation
- Photo/Video documentation during the event

The materials for the Announcement will be downloaded from the NEFERTITI Platform. The materials needed for Social Media promotion are:

- Date and time
- Short description
- Partners involved (organizers)

During the event, Hub Coach should timely provide NEFERTITI Social Media team with photos and/or videos. The channels for transfer photos/videos during the event are Facebook, Twitter and/or LinkedIn.

If Hub Coach has active social media accounts (Facebook, Twitter and/or LinkedIn), the best way is to share the photos/videos on their channels and mention NEFERTITI account:

- Facebook: @NEFERTITI.EU
- Twitter: NEFERTITI_EU
- LinkedIn: NEFERTITI H2020

Otherwise, photos/videos and short text should be sent via one of the following channels:

- Email to: vujaklija.dajana@gmail.com
- Nefertiti WhatsApp group

Additionally, hub coaches are encouraged to send interesting conclusions from the events, quotes and anything they find interesting for sharing on Social Media.



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Annex 2: Overall list of Demo events organised in the 3 campaigns

Nombre de event name	Étiquettes de colonnes			
	1st - 2019	2nd - 2020	3rd - 2021-2022	Total général
01 Grassland and Carbon Sequestration	24	20	17	61
France	5	6	5	16
C sequestration What is it, how to evaluate in on a livestock farm?		1		1
carbon sequestration in beef farm		1		1
Déjections animales, source de carbone des sols en élevage	1			1
GIEE agri novateur	1			1
How to integrate carbone sequestration on farm diagnosis	1			1
Lait herbager : à la découverte de ses atouts carbone!		1		1
space conference on carbon sequestration	1			1
Stocker du carbone dans le sol : atouts des fermes laitières Biologiques		1		1
Stocker du carbone dans les sols des fermes bovins viande en France		1		1
Témoignage : stocker du carbone dans les sols SPACE 2019	1			1
webinar on C sequestration in Biolait farms		1		1
optimize your carbon footprint in dairy farms			1	1
Elevage laitier en agriculture biologique et carbone			1	1
Open day of experimental dairy farm of Trévarez			1	1
Carbone sequestration : Carsoleil a new tool to simulate effect of management on C sequestration			1	1
Global presentation of projects and actions in order to reduce green house gas emission			1	1
Germany	6	4	6	16
DEMRA Mäusemonitoring Meeting		1		1
Farm Demo Claus Luerßen	1			1
Farmwalk Mäuseproblematik		1		1
Feldbegang "Ollenbäke"		1		1
Grassland Fieldwalk	1			1
Injection of fertiliser on grazing area	1			1
Optimized water management to reduce greenhouse gas emissions on Peat Soil	1			1
Preservation of grassland on peat soils through appropriate water management	1			1
Upgrading of slurry on dairy farms	1			1
Wassermanagement / Grünlandmanagement		1		1
Mob Grazing			1	1
Moorgruppe Moorriem (Nefertiti Meeting)			1	1
Nutriman - Praxisnahe Technologien und Produkte aus dem Bereich der Nährstoffrückgewinnung von Stickstoff und Phosphor			1	1
Climate protection measures in peatland areas			1	1



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Landjugend Moorland			1	1
Swamps /Watermanagement			1	1
Ireland	6	5	2	13
Agriculture, the science of soil to society	1			1
Bride Valley discussion group		1		1
Bride20 Discussion group		1		1
Carbon Sequestration Webinar		1		1
Dairy Calf to Beef open day	1			1
Leamlara discussion group session on carbon sequestration		1		1
Masterclass in Soil Quality and Health for Consultants and Advisers	1			1
Moorepark 2019 - Teagasc National Dairy Open Day	1			1
NEFERTITI 01 Grassland and Carbon Sequestration discussion group	1			1
Soil Quality and Health Workshop for Farmers	1			1
Teagasc dairy adviser grassland carbon sequestration training		1		1
Jack & Larry Kearney's Teagasc/Glanbia Open Source Future Farm Walk			1	1
Teagasc/Dairygold Joint Programme Farm Walk - Navigating Change			1	1
United Kingdom	7	5	4	16
Animals To Arable		1		1
Carbon App and Discussion Workshop	1			1
Cattle and Herbal Leys for Carbon Capture	1			1
Groundswell	1		2	3
How can Grassland Beef Production be part of the Climate Solution	1			1
On -Line Harvest Festival		1		1
Sheep and Beef with low carbon remit	1			1
Soil Farmer of the Year Farm Walk	2	1		3
Soil Farmer Virtual Farm walk		1		1
The Greatest Online Agricultural Show		1		1
Farm Carbon and regenerative Demo			1	1
FarmEd Launch of Carbon Community of Practice			1	1
02 Data driven decisions for dairy farmers	31	25	34	90
Belgium	12	14	16	42
Bedrijfsbezoek: "Melkkwaliteit en diergezondheid"	1			1
Co-creatie workshop administratieve vereenvoudiging	1			1
Co-creatie workshop administratieve vereenvoudiging deel 2		1		1
Demo spraying applications		1		1
Gebruik van data op het melkveebedrijf	1			1
How Digital Innovation Hubs and the living labs can help to involve the farmers in co creation approach.	1			1
Inspiratiesessie data gedreven beslissingen van melkvee naar andere sectoren		1		1
Introduction to precision farming	1			1
Koesensor: robotmelken	1			1
Koesensor: Workshop Robotsoftware	2			2



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Lancering IKM-NET op Agridagen Ravels		1		1
Les dangers des gaz dans les effluents	1			1
Melkveepicknick		3		3
NEFERTITI: Crystal workshop Fullwood		1		1
PhD presentation: Deep learning and thermography for automatic hoof lesion detection in dairy cows		1		1
Studiedag Vloeibaar bemesten	1			1
Visit ISA Lille students		1		1
Webinar 1: Hittestress: een onderschat probleem!		1		1
Webinar 2: Omgaan met hittestress: pas uw voermanagement aan!		1		1
Webinar 3: Omgaan met hittestress: zorg voor een optimaal stalklimaat!		1		1
Workshop "Fokkerij"	1			1
Workshop: De gevaren van mestgassen	1			1
Workshop: Krachtvoergebruik op melkrobotbedrijven		1		1
Webinareeks melkrobotsoftware sessie 2 - Fullwood Packo			1	1
Webinareeks melkrobotsoftware sessie 1 -DeLaval			1	1
Webinareeks melkrobotsoftware sessie 3 - Lely & GEA			1	1
Wandelevent: Voeten op de grond, hoofd in A.I.			1	1
Webinar IKM-NET training			1	1
Visit SEED project			1	1
Welke veldspanning en nieuwe bandentechnologieën helpen bij het vermijden van bodemverdichting?			1	1
Demo digitale skills, datadelen en administratieve vereenvoudiging			1	1
Demo-beurs kalveropfok (Merelbeke)			1	1
Webinareeks datadelen sessie 4: Spelregels voor datadelen, hoe zit dit juist?			1	1
Webinareeks datadelen sessie 1: De data-economie hoe kan ik meer uit (mijn) data halen?			1	1
Webinareeks datadelen sessie 3: Wat zijn API's en waarom zou ik ze gebruiken?			1	1
Webinareeks datadelen sessie 2: Hoe kan ik een verdienmodel opbouwen rond datadelen?			1	1
Demo BODEM werktuigendagen			1	1
Digitalisatie in de melkveehouderij			1	1
DjustConnect ontbijtevent @ Agridagen Ravels			1	1
France	7	4	5	16
Grazing and milking robot demo	1			1
Groupe des éleveurs laitiers connectés			1	1
Groupe robot			1	1
GRUPE ROBOT OUEST 56 : ROBOT ET PATURAGE	1			1
Journée "Fermes numériques"	1			1
rencontre groupe Robot Ouest 56	1			1
Réunion des éleveurs laitiers connectés			1	1
Réunion du groupe robot 29	2			2
Robot group meeting 29	1			1
Webinaire sur l'élevage de précision			1	1



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groupe robot 29			4	4
réunion groupe robot			1	1
Germany	6	4	5	15
"Grasshopper" - Digitales Weidetool und Erfahrungsaustausch zur Weidesaison 2019	1			1
AMS and grazing	1			1
Farm Demo Dairy Technologies	1			1
Farmwalk / Farmtour		1		1
Innovativ weiden	1			1
Kühe vor der BCS-Kamera		1		1
On farm lesson for agricultural students		1		1
Online Demo: Schulung der Landwirte		1		1
Reproduction Demo	1			1
Rischenhof Demo	1			1
Farm Walk: Weide - Handwerkszeug			1	1
Virtual Fencing			1	1
Weidecoaching - new advising concept for pasture-based farms			1	1
Stammtisch: Weidegang und Melkroboter			1	1
Women in agriculture - dairy technologies to produce high quality milk products on farm			1	1
United Kingdom	6	3	8	17
Dairy Tech Show		1		1
Future Farm Technology Expo	1			1
Groundswell	1			1
IoF 2020 Showcase Event	1			1
Miracle Tech Demo Day	1			1
Scotgrass 2019	1			1
The Greatest Online Agricultural Show		1		1
Use of enhanced genomic testing for improving welfare traits	1			1
Using technology to improve health welfare and profitability of dairy herds		1		1
Agritech 4.0 The application of data, Information and digital technologies for Added Value			1	1
Agritech 4.0 Conference			1	1
The benefit of Robotics on a Dairy Farm - Dairy Tech Event			1	1
Precision Livestock Farming for Herd Health and Welfare			1	1
South West Dairy development Centre open day			1	1
Technology and Data in Heifer rearing			1	1
Benefits of Precision farming in Dairying			1	1
Moovin' on up			1	1
03 Robust organic livestock systems	24	23	32	79
Croatia	6	6	5	17
Baranjski model proizvodnje teladi na paši – primjer iz prakse		1		1
Držanje goveda na otvorenom uz minimalna ulaganja	1			1
Ekološki tov goveda u pašnom sustavu		1		1
Ekološki tov goveda u pašnom sustavu – primjer iz prakse		1		1
Higijena i njega papaka u goveda	1			1
Iskustva u izboru pasmina za tov goveda	1			1



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Kvaliteta krme na krškim travnjacima	1			1
Najčešće pogreške u pašnom govedarstvu	1	1		2
Poboljšanje kvalitete tla na travnjačkim površinama u sustavu krava-tele	1			1
Simentalac se vraća kući		1		1
Škotsko visinsko govedo u ekološkom uzgoju na moslavačkim pašnjacima		1		1
Pašno govedarstvo na novogradiškom području			1	1
Podpapučki pašnjaci – od pašnjaka do stola			1	1
Iskustva Pašnjačke zajednice braniteljske zadruge Eko-Gajna i uzgajivača u upravljanju pašnim govedarstvom			1	1
Pasmina Galloway na varaždinskim brežuljkastim pašnjacima			1	1
Znanje i znanost u praksi pašnog govedarstva na OPG-u Vujec			1	1
France	5	5	5	15
Nefertiti BZH AB		1		1
PO Reine Mathilde		1	1	2
Rendez technique lait bio	1			1
Rendez vous technique lait bio	4	2		6
Webinaire Résilait		1		1
Webinaire -Monotraite			1	1
Partage d'expérience Monotraite			1	1
Rendez vous technique AB			2	2
Germany	4	4	8	16
Demeter Michtagung Mitte	1			1
Die Zukunft der ökologischen Rinderzucht gemeinsam gestalten. Grundlagen und Konzepte		1		1
Feldtag Milchvieh auf die Weide	1			1
Horntragende Kühe im Laufstall und Aufbau ökologischer Rinderzucht		1		1
Horntragendes Öko-Milchvieh sichern		1		1
Innovative Öko-Geflügelhaltung		1		1
Praktikertag rund ums Milchvieh	1			1
Seminar zu muttergebundenen Kälberaufzucht und Bullenmast	1			1
Online-Seminar zur Triple-A Zuchtmethode			1	1
Kugebundene Käberaufzucht: Trennen und Absetzen in der kuhgebundenen Aufzucht			1	1
Kuhgebundene Kälberaufzucht: Systeme kuhgebundener Aufzucht und stallbauliche Lösungen			1	1
Bericht aus Projekten zur Rinderzucht innerhalb der „Ökologischen Tierzucht“			1	1
Praktikertag: Einblicke in den praktischen Zweinutzungshuhn-Zuchtalltag			1	1
Kugebundene Käberaufzucht: Kombinierbarkeit kuhgebundene Aufzucht und AMS			1	1
Die Kuhbeobachtungsmethode OBSALIM und Aufbau ökologische Rinderzucht			1	1
Gesichtspunkte aus dem „Landwirtschaftlichen Kurs“ zur Tierhaltung/Tierzucht.			1	1
Spain	5	5	5	15
3º Encuentro estatal de productores de leche ecológica	1			1



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Catas focus group caballar		1		1
Grazing conference	1			1
IV Encuentro de ganaderías de leche de vaca ecológica		1		1
Jornada demostracion: Valorizacion del pastoreo en zonas de alto valor ambiental		1		1
Jornada interna: resultados de gestión técnico económica en ganadería año 2019		1		1
Jornada Técnica Ganadera: vacuno lechero en ecológico / Technical session: organic dairy farming	1			1
Ovino de leche en ecológico		1		1
Potato pests and diseases. Organic production	1			1
Visita de estudiantes de curso de Experto Universitario en Agroecología y Desarrollo Rural de la UPNA a la finca experimental de ovino lechero en Roncesvalles (INTIA). Agroecology and Rural Development postgraduate course students from UPNA visit the organic experimental sheep dairy farm in Roncesvalles (INTIA).	1			1
CURSO DE CAPACITACIÓN DE PASTOREO DE PRESERVACIÓN			1	1
Sistema de producción Vacuno de Leche en Pastoreo Ecológico en el Pirineo Navarro			1	1
Agroecology course students visit the organic experimental dairy farm in Roncesvalles (INTIA).			1	1
Presentación de los resultados de gestión técnico económica en ganadería año 2020			1	1
Visita Biolur + nueva instalación a sistema eco vacuno leche			1	1
United Kingdom	4	3	9	16
Dairy Tech Show		1		1
Groundswell	1		1	2
How can pig and poultry farmers improve their own organic feed	1			1
The Greatest Online Agricultural Show		1		1
Use of herbal lays with organic beef and sheep on an upland farm	1			1
Using a three way cross in an organic dairy farm	1			1
Using technology to improve health welfare and profitability in Dairy workshop		1		1
Dairy Tech : Embracing Technology in Grazing			1	1
Dairy-Tech - Organics a Brave New world			1	1
Carbon and Farming Regeneratively			1	1
National Trust Farming innovation group - Macgregor Farming			1	1
National Trust Farming Innovation Group - Abbey Home Farm				
Organic Shop			1	1
IfA CoP Event			1	1
Healthy heifer project on farm day			1	1
Regenerative farming and outwintering			1	1
04 Optimal soil quality in arable crops	32	17	32	81
Belgium	12	5	14	31
Agro-experten: Bodemzorg en bemesting		1		1
bio elektrische waardering bodem	1			1
Biovelddag	1			1



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Correct bemesten met kunstmeststoffen	1			1
Cross visit			1	1
Cursus bodem	1			1
Herwonnen meststoffen & machinedemo	1			1
Machinedemo niet-kerende grondbewerking	1			1
Oplossingen op erosiegevoelige percelen Oost-Vlaanderen	1			1
Oplossingen op erosiegevoelige percelen West-Vlaanderen	1			1
Optimal soil health: cover crops, adjustment of fertilizer spreader and spraying techniques	1			1
Smartfarming	1			1
Studieavond aardappelen		1		1
Studienamiddag Optimaal bemesten binnen MAP 6		1		1
Tips & tricks voor jouw bodem, bemesting en gewasbescherming	1			1
Webinar: Leer de waarde van herwonnen meststoffen herkennen		1		1
Werktuigendagen Oudenaarde	1			1
Workshop: Hou je grond(stoffen) op je veld!		1		1
VERZORGDE BODEM IS EEN VERZEKERING VOOR EXTREME SEIZOENEN			1	1
Webinar: Infomoment erosiebestrijding tussen Leie en Schelde			1	1
opleidingsprogramma: teach the teacher: bodem en bodemzorg			1	1
erosiebestrijding, ploegloos boeren, niet kerende grondbewerking			1	1
Stuifschade aanpakken met papiercellulose			1	1
mogelijkheden inwerken groenbedekkers in polder en impact bandenspanning op bodemstructuur			1	1
Groenbemestersevent			1	1
Leer je bodem kennen, met de technologie in de hand			1	1
Workshop: bodemverdichting - beoordeling bodemkwaliteit			1	1
Groenbemestersevent deel 2			1	1
school PTI opleiding bodemkwaliteit			1	1
workshop school bodemkwaliteit			1	1
Aan de slag met GPS			1	1
Netherlands	6	4	6	16
Bioinspiratiedag	1			1
Biovelddag	1			1
Cover crop day		1	1	2
Cross Visit Poland	1			1
Demo inwerken groenbemesters	1			1
Farminar Biologische strokenteelt		1		1
Groenbemesterdag	2	1		3
Online Groenbemesterdag			1	1
Opening Boerderij van de Toekomst		1		1
Webinar peulvruchten biologische landbouw			1	1
Innovatiedag Veenkolonien			1	1
Strokenteelt telersgroep demonstratie			1	1
Studiemiddag			1	1



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Poland	8	4	6	18
Cross visit	1			1
Innowacyjne technologie produkcji roślin zbożowych	1			1
Mazowieckie Days of Agriculture	1			1
Pokaz maszyny agregującej poprawiającej strukturę gleby		1		1
Precision farming	1			1
Prezentacja doświadczeń polowych w zakresie poprawy struktury gleby	1			1
Soil quality in vegaetable production	1			1
SUSTAINABLE SOIL MANAGEMENT		1		1
Targi Rolnicze - Agrotech Kielce	1			1
Wpływ technologii rolnictwa precyzyjnego na jakość i produktywność gleby		1		1
XXI DAYS OF MAIZE 2019	1			1
Zwiększanie materii organicznej w glebie w gospodarstwie ekologicznym		1		1
2nd Field Day in Boguchwała			1	1
Regenerative agriculture. Workshop.			1	1
National Field Days in Minikowo			1	1
AGRO Show Bednary			1	1
Innovative techniques in irrigation and fertilization of plants			1	1
Rduced tillage			1	1
Spain	6	4	6	16
Jornada de intercambio de experiencias		1		1
Jornada de siembra directa en secanos frescos	1			1
JORNADA INTERCAMBIO EXPERIENCIAS NEFERTITI - AGRACON	1			1
JORNADA INTERCAMBIO EXPERIENCIAS NEFERTITI-VISITA EXPLOTACIONES AGRICULTURA CONSERVACION		1		1
Jornada técnica del maíz. Fertilización con abonados orgánicos	1			1
Jornada teórico-práctica de línea clave	1			1
Oportunidades del compostaje para ganaderos y agricultores	1			1
Tercera jornada técnica de línea clave: Cosechando agua, regenerando suelos		1		1
Viaje a la feria de maquinaria Demoagro-Huesca	1			1
Virtual demo to arable crops		1		1
Winter arable crops. Phosphorus in cereals			1	1
Sustainable nitrogen fertilization in arable crops			1	1
Open days: Arable crops			1	1
Use of cover crops to improve soil quality			1	1
Micotoxins in cereals (maize)			1	1
Maize management			1	1
05 Crop sensing and variable rate applications	23	24	42	89
Finland	3	3	9	15
Kasvun paikka -täsmävilljelytilaisuus	1			1
Precision farming event / Täsmävilljelyn pellonpiennar Lapualla	1			1
Täsmävilljely-foorumi		1		1
TÄSMÄVILJELYN PELLONPIENNARTILAIUUS		1		1



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Uudistuva maatalous	1			1
Video of precision farming with Finnish equipment		1		1
Satelliittidatan hyödyntäminen peltoviljelyssä			1	1
Maaperäskannauksella paikkakohtaista tietoa			1	1
Co-operation between project workers, sharing of good practices. (Yhteistyötilaisuus ProAgrian kv-hanketoimijoille)			1	1
Täsmäviljelypäivä (Crop-sensing and variable rate applicationg day)			1	1
NurmiStartti			1	1
CrossVisit to Finland			1	1
Täsmäviljelysuunnitelman teko asiakkaalle			1	1
Täsmäviljely osana viljelysuunnittelua			1	1
Pellonpiennartilaisuus N-xt nestelannoitteet ja biologiset valmisteet käytännössä			1	1
France	3	6	6	15
Biennale de l'agro-équipement		1		1
Digicolloque - Digiferme de Saint Hillaire en Woevre		1		1
Digicolloque - Sol et ressources : Services rendus par les technologies pour mieux connaître son sol, ses plantes et moduler ses intrants			1	1
Digicolloque -Élevage et fourrages : À la recherche d'autonomie protéique, de bien-être pour l'animal et l'éleveur, d'attractivité du métier et de compétitivité via les outils numériques		1		1
Digicolloque -Ravageurs : Renforcer et simplifier l'observation des ravageurs par des outils connectés		1		1
Formation agriculture de précision et modulatuion intra-parcellaire	1			1
Innov&Moi	1			1
Réunion des conseillers du groupe Agriculture de Précision Grand Est		1		1
Visite des essais céréales à paille	1			1
Terr'Innov			1	1
Cross - Visit 2021 - Day 3 - Digiferme® de Saint Hillaire en Woevre			1	1
Cross-Visit 2021 - Farmers' network interactions			1	1
Cross Visit 2021 - Day 2 - Les Cultureles			1	1
Webinaire Agriculture de Précision Grand Est			1	1
Tips&Tricks des journées techniques			1	1
Hungary	7	6	5	18
Agromash Expo		1		1
Development of Farming in Somogy county		1		1
Farmers meeting	1			1
Farminar on Smart Soil Improvement		1		1
HUB meeting		1		1
Implementation of sensor technology interactive discussion	1			1
Innovative slurry management		1		1
Karcag Field Day	1			1
NAK szántóföldi napok és agrárgépshow	1			1
OMÉK	1			1



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Precision agriculture roundtable discussion and club day		1		1
Smart Farm Consultation, presentation of the HUB	1			1
SMARTFARM conference	1			1
Farminar 2 Precision agriculture in Hungary			1	1
NAK Field Days			1	1
Field Day on Demonstration Farms			1	1
Regionális szakmai fórum			1	1
Precíziós Agrártájékoztató			1	1
Netherlands	5	6	6	17
Bio Inspiratiedag	1			1
Dag Onkruid	1			1
Is cropping without crop protection chemical possible with technology in 2030?		1		1
NPPL demo day Wieringermeer	1			1
NPPL Groningen - Precision applications Claassen	1			1
Opening Farm of the Future		1		1
Organic Field day	1			1
Precision Agriculture, What can I do right now?		1		1
Webinar(s) on how to use and implement taskmaps for VRA		3		3
Farm Robots: latest developments in on-farm implementation			1	1
NPPL on tour - VRA implementations on a flower bulbs farm			1	1
Dag Onkruid 2021 (ByeBye Weeds 2021)			1	1
Innovatiedag Veenkolonien			1	1
Field demo Robotisation of mixed cropping systems			1	1
Future Farming & Food Experience			1	1
Poland	5	3	16	24
Cross Visit Poland			1	1
Demonstracja praktycznych zasad stosowania rolnictwa precyzyjnego	2			2
In-field presentation of innovative technological solutions of maize and soybean cultivation		1		1
Innowacyjny system uprawy roli w rolnictwie zrównoważonym		1		1
Mazowieckie Days of Agriculture	1			1
Precyzyjne dawkowanie składników w rolnictwie		1		1
XXI DAYS OF MAIZE 2019	1			1
Zarządzanie żyznością gleby w gospodarstwie ekologicznym	1			1
Prognoza redukcji strat składników pokarmowych z rolnictwa			1	1
Field workshop Grabów			1	1
Reducing nitrogen pollution from agricultural sources by improving water quality			1	1
Kierunki rozwoju gospodarstw rolnych. Metody aktywizujące nauczanie przedmiotów zawodowych			1	1
Videoclip on YouTube about liming			1	1
Minikowo- National Field Days			1	1
Cross visit Holandia i Belgia			1	1
Uniwersytet Ludowy Grzybowo			1	1
Webinar:Rational management of fertilizer components in the light of environmental protection			1	1



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video clip :CDR, Poland: How to store animal manure to reduce water pollution			1	1
Energy-saving practices in field agricultural production			1	1
Workshops of the AgroFossilFree project in Końskowola			1	1
Webinar about precision fertilisation			1	1
Seminar "Effective nutrient management"			1	1
Sustainable agriculture for a sustainable sea - the future agriculture in Poland and in Europe " GRASS 2022			1	1
06 Increasing productivity and quality in organic arable cropping	24	22	28	74
Finland	8	5	10	23
KoneAgria 2019	1			1
Lisää Luomua	1			1
Luomuliiton mentoreiden pellonpiennarpäivä		1		1
Luomumaassa on elämää, Ekoviljelijöiden syyskokous		1		1
Luomupäivät, Jyväskylä	1			1
Luomusa, Töysä Organic Day	1			1
Maankasvukunto, Ilmajoki	1			1
Open Organic Farm Day	1			1
Organic adviser field day	1			1
Organic no-till farming	1			1
Pohjoisen Luomupäivät		1		1
Rehuntuotantokausi edessä: Miten teen hyvää säilörehua?		1		1
Rikkakasvien hallinta luomussa		1		1
Luomusiementuotanto -heinäkasvit			1	1
Luomun "täsmä"-webinaarin osa 2 -luomutuotteiden markkinointi			1	1
Viljelykierto ilta			1	1
Luomukierros pienryhmässä			1	1
Ekoviljelijöiden pellonpiennar			1	1
Luomupäivät Seinäjoella 11.–12.11.2021, Frami B, Kampusranta 9, Seinäjoki			1	1
Lampaanlanta pehkusta pellolle			1	1
Finnish Organic days			1	1
Rikkakasvien torjunta luomussa			1	1
Luomurypsi-ilta			1	1
Germany	4	5	7	16
Bioland Ackerbautagung Rheinland-Pfalz/Saarland	1			1
Bioland Feldbegehung - Schwerpunkt: Pfluglose Ackerbaukulturen und Saatechnik	1			1
Bodenkundliche Grundlagen und Bedeutung einzelner Nährstoffe im Acker-, Gemüse-, Obstbau und Grünland		1		1
Feldbegehung - Schwerpunkt: Besichtigung von Zwischenfrüchten und Untersaaten im biologischen Ackerbau	1			1
Feldbegehung mit Schwerpunkt Besichtigung von Körnerhanfanbau, Zwischenfrüchten und weiteren Kulturen		1		1
Nutzung von Zwischenfrüchten im Öko-Ackerbau		1		1
Öko-Feldtage (including Cross Visit)	1			1
Optimierte Klee grasnutzung im viehlosen Betrieb		1		1
Webinar "Biogas im Bioland – Betriebsvorstellung Bannsteinhof"		1		1



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Maschinenvorführung: Bodenbearbeitung im Herbst Felderbegehung mit Schwerpunkt: Forschung & Züchtung am Dottenfelderhof			1	1
Feldbegehung mit Schwerpunkt: Besichtigung von Sonderkulturen im Taunus			1	1
Ölfrüchte & Sonderkulturen: Anbau – Verarbeitung - Vermarktung			1	1
Neue Wege in die Landwirtschaft			1	1
Mechanical Weeding on silted and crusted soils			1	1
Bodenfruchtbarkeit: Verstehen – Erleben – Erhalten			1	1
Poland	7	6	6	19
Agregatowanie maszyn pod ciągnik małej mocy w gospodarstwie ekologicznym			1	1
Agrotechnical activities supporting the maintenance of organic matter in the soil			1	1
Ekologiczna uprawa owoców miękkich	1			1
Ekologiczna uprawa soi	1			1
How to prepare a proper growth environment for organic farming?			1	1
Innowacyjna technologia ekologicznej uprawy roślin rolniczych - gryka, orkisz			1	1
Możliwości uprawy kukurydzy w systemie rolnictwa ekologicznego	1			1
National Organic Harvest Festival	1			1
Perspektywy rozwoju rolnictwa ekologicznego / Prospects for the development of organic farming	1			1
Płodozmian i ochrona upraw w rolnictwie ekologicznym			1	1
Practical assessment of soil and plant condition in organic farming			1	1
XX Mazowieckie Days of Agriculture	1			1
Zarządzanie żyznością gleby w gospodarstwie ekologicznym	1			1
Ekologiczna uprawa roślin zbożowych i okopowych			1	1
Przetwórstwo, marketing i sprzedaż produktów ekologicznych			1	1
Selection of cereal varieties for cultivation on organic farms on the basis of conducted experiments			1	1
Ograniczenie orki w gospodarstwie ekologicznym			1	1
Organic cultivation of blueberry			1	1
Cultivation of catch crops in organic farming			1	1
Spain	5	6	5	16
Cadena de valor y nuevo cooperativismo en los cultivos extensivos ecológicos.			1	1
ENSAYOS EXTENSIVOS EN ECOLÓGICO RESULTADOS 2020			1	1
Jornada teórico-práctica de línea clave.	1			1
Management of a mobile equipment for cleaning and selecting post-harvest grain			1	1
Oportunidades del compostaje para ganaderos y agricultores	1			1
Presentación de proyectos y sus resultados en cultivos extensivos en ecológico			1	1
Reconocimiento colectivo, información previa y cadenas de valor			1	1



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Tercera jornada técnica de línea clave: Cosechando agua, regenerando suelos		1		1
Viaje a la feria de maquinaria Demoagro-Huesca	1			1
Vídeo sobre separación de grano post-cosecha	1			1
Visita a ensayos y taller de co-creación sobre mezcla de especies en el sector ecológico	1			1
Jornada de producción de legumbres ecológicas de consumo			1	1
Control biológico de plagas en campo con bandas floridas			1	1
Field visit to organic arable crops of legumes and wheat			2	2
Cultivos extensivos en producción ecológica (resultados de experimentación)			1	1
07 Improved nutrient use efficiency in horticulture	20	18	27	65
Bulgaria	7	5	8	20
Демонстрация на тема „Ефект на групово използване на различни водоразтворими торове за фертигация (система за капково напояване) при зеленчуци	1			1
Ефективно използване на хранителните вещества в овощарството и някои технологични въпроси при интензивно отглеждане на трайни насаждения		1		1
Иновации в производството на ягодоплодни култури. Възможности за дигитално управление на процесите на поливане и хранене на ягодоплодните култури и др.	1			1
Методи и средства за прилагане на интегрирана растителна защита при оранжерийно производство на зеленчукови култури	1			1
Особености при отглеждане на нетрадиционни за страната зеленчукови култури – специфика при торене и схеми на засаждане		1		1
Подобрена ефективност на използване на различни хранителни вещества при зеленчукови култури и трайни насаждения		1		1
Празник „Златна праскова“ - 2019 г.	1			1
Представяне на дейностите по мрежа 07 "Подобряване на ефективността на хранителните вещества в градинарството" и мрежа 09 „Намаляване употребата на пестицидите при производството на грозде, плодове и зеленчуци“ по проект "Свързани в мрежи европейски ферми за стимулиране на взаимното обогатяване на знанията и използването на иновации чрез демонстрации" (NEFERTITI) по Програма Хоризонт 2020.	1			1
Презентация и демонстрация по проект Нефертити	1			1
Уебинар на тема: Въздействието на минералното хранене върху качеството на храните и човешкото здраве. Добри практики и новости в използването на калий и магнезий при полски зеленчуци		1		1
Усъвършенстване на моделите за хранене при зеленчуковите култури на базата на нови продукти за торене и начини на приложение - комбинирани течни и гранулирани формулации; биоторове; микоризни продукти и др. с цел повишаване потенциала за добив и получаване продукция с повишена биологична стойност.	1			1



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Хранене на зеленчукови култури при отглеждане по методите на биологично производство	1		1	
Актуални технологични подходи в храненето и интегрираната растителна защита при оранжерийно производство на зеленчуци. Сортове, подходящи за местният пазар			1	1
Торене на лозя / Fertilizing the vine			1	1
Хидропонни технологии в оранжерийното зеленчукопроизводство / Hydroponic technologies in greenhouse vegetable production			1	1
Отглеждане на ягодоплодни култури на почва и чрез хидропоника в различни типове оранжерии			1	1
Cross visit - field demo			1	1
Мулчиране с органични материали при зеленчуковите култури - ползи за растенията, околната среда и почвеното плодородие			1	1
СРЕДНОРАННО ПРОИЗВОДСТВО НА ДОМАТИ И ПИПЕР. ЕФЕКТИВНО ИЗПОЛЗВАНЕ НА ХРАНИТЕЛНИТЕ ВЕЩЕСТВА			1	1
Основни резултати по проект НЕФЕРТИТИ и демонстрация на добри практики за растителна защита и торене при отглеждането на ябълки			1	1
Germany	3	3	7	13
Junglandwirte Exkursion	1			1
Naturland farm visits		1		1
Öko-Feldtage (including Cross Visit)	1			1
ÖKOmenisches GARTENBAU-SEMINAR	1			1
Online Seminar Bodenkundliche Grundlagen und Bedeutung einzelner Nährstoffe im Acker-, Gemüse-, Obst- und Gartenbau		1		1
Praxistipps im Gartenbau		1		1
Neue Wege in die Landwirtschaft			1	1
Online Workshop on Carbon Balances			1	1
Nährstoffdynamik und Analytik			1	1
Junglandwirte Field Day			1	1
Field Visit to an organic farm			1	1
Organic farm Visit			1	1
Best practice in organic greenhouse production			1	1
Netherlands	5	5	6	16
Aanleg bemestingsdemo's	1			1
CAV Agrotheek Bemestingsavond	1			1
Cross visit			1	1
Cross Visit organic Field Day Kassel	1			1
Gras en Maismanifestatie		1		1
Online Groenbemesterdag		2	1	3
Presentatie/discussie Nitraatmetingen resultaten	1			1
Thema avond Bemesting	1			1
Webinar Cover crops as catch crops, nitrogen dynamics		1		1
Webinar Soil quality on sandy soil		1		1
Gras en Mais manifestatie			1	1



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Webinar Brabant bemest beter			1	1
Groenbemesterdag - live in Westmaas			1	1
Landelijke preidag			1	1
Spain	5	5	6	16
Bases para la transformación digital en la explotación agrícola de Almería		1		1
Bases para la transformación digital en la explotación hortícola de Almería		2		2
Monitoring the nutritional status of crops. Soil and plant samples.	1			1
Monitoring the nutritional status of crops. Soil and plant samples. Organic matter in the soil. Salinity management.	1			1
Optimal use of fertilisers in precision citrus production	1			1
Tracking the nutritional status of crops. Soil and plant sampling. management of soil organic matter	1			1
Use of sensors to optimize fertigation in horticultural crops		1		1
Uso de sondas y sensores para seguimiento del suelo		1		1
Workshop "Estrategias para un manejo eficiente del nitrógeno en cultivos protegidos"	1			1
Introducción a la nutrición ecológica			1	1
EL FUTURO DEL CULTIVO EN SUSTRATO CON RECIRCULACIÓN EN EL CAMPO ALMERIENSE			1	1
El problema del N, herramientas para mejorar su gestión en finca			1	1
Programación eficiente del fertiriego			1	1
Los productos BIO en la agricultura almeriense			1	1
CROSS VISIT IN ALMERIA			1	1
08 Water use efficiency in Horticulture	20	17	30	67
Netherlands	4	5	9	18
Demo & discussie:Telen met toelating meer natrium	1			1
Demo en Discussie (ionspecifieke) Sensoren	1			1
Demofilms techniques for zero-discharge strategy in greenhouse horticulture	1			1
Emissieloos Telen - WaterEvent	1			1
Online discussion on zero emission cultivation of cucumber		1		1
Webinar 'Emission reduction in soil-bound cultivation'		1		1
Webinar 'Ion-specific measurements and management of nutrient solution in substrate cultivation'		1		1
Webinar 'Prevention of sodium problems in zero liquid discharge cultivation'		1		1
Webinar 'Zero emission cultivation and availability of irrigation water'		1		1
Zero-emission cultivation in soilless strawberry (local meeting)			1	1
Zero emission cultivation in soilless strawberry (local meeting)			2	2
Webinar 'Beschikbaarheid van gietwater'			1	1
WaterEvent research pitches			1	1
WaterEvent workshop Ionspecifieke sensoren			1	1
Workshop Microbial control of irrigation water			1	1
Webinar Optimaliseren watersysteem substraatteelt			1	1
Demodag VitalFluid			1	1



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Poland	5	4	8	17
Alternative cultivation systems in horticultural production		1		1
Drought and its effects in orchards		1		1
Dzień Drzwi Otwartych Instytutu Ogrodnictwa	1			1
How to keep water on farm?		1		1
How to limit nutrient losses from farm?	1			1
Mazowieckie Days of Agriculture	1			1
Modernizacja w gospodarstwie rolnym - nawodnienia w gospodarstwie	1			1
Technology of growing blackberries		1		1
Water management in Volmary farm	1			1
Support for the creation of Local Water Partnerships			1	1
Good practices in water management in agriculture and rural areas			1	1
Efficient water management and solutions used to create blue and green infrastructure			1	1
The use of water resources and the Water Law - how not to drown in the sea of regulations?			1	1
Innovative practices in the irrigation and fertilization of plants under cover			1	1
Effective management of natural resources			1	1
Measures to remedy the scarcity and excess of water in agricultural production			1	1
New technological solutions in horticulture - irrigation, orchard management and decision support systems			1	1
Portugal	5	3	7	15
"Um dia com"		1		1
8th WORKSHOP & 6th Visita de Estudo Plano de Sustentabilidade dos Vinhos do Alentejo (PSVA) - Envolvimentos, Biodiversidade e NEFERTITI	1			1
DEMO_Spraying and water sensors - ISA vineyards	1			1
Mecanização e Automatização em viticultura de encosta	1			1
PT - CrossVISIT WATERHUB	1			1
VII Congresso Nacional de Rega e Drenagem		1		1
Visita Técnica do 11º Simpósio de Vitivinicultura do Alentejo	1			1
WEBINAR_Detecção de doenças do lenho e do estado hídrico da videira utilizando tecnologias emergentes		1		1
VIII Jornadas Técnicas APEV – Vinha e Vinho caminhos para a sustentabilidade"			1	1
Webinar - "Sensores para gestão eficiente da rega na vinha: Benefícios e Custos".			1	1
NEFERTITI/SYNGENTA event - Optimizar boas práticas na pulverização para minimizar o uso e poluição de água			1	1
Boas praticas no uso do solo e da água em viticultura : o caso do Esporão			1	1
DIA ABERTO - VinAZreg e NEFERTITI - Gestao da água na planta : conhecer para gerir melhor			1	1
DEMO_EVENT AVIPE-NEFERTITI			1	1
Ação de Demonstração Synergy Days Smart Agri Hubs			1	1
Spain	6	5	6	17



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Actividad demostrativa riego inteligente en cítricos	1			1
Bases para la transformación digital en la explotación hortícola de Almería		1		1
Cross visit			1	1
Encuentro con mujeres agricultoras sobre uso de herramientas digitales para gestión del riego	1			1
How is knowledge and innovation transferred to the sector?	1			1
Innovación en la gestión y manejo del agua		1		1
La importancia de la eficiencia del riego		1		1
Optimización del agua desalada para riego		1		1
Use of soil and environmental moisture and EC sensors for irrigation management decisions.	3			3
Uso de sensores para optimizar la fertirrigación en cultivos hortícolas		1		1
EL FUTURO DEL CULTIVO EN SUSTRATO CON RECIRCULACIÓN EN EL CAMPO ALMERIENSE			1	1
Regando con agua cada vez más salina			1	1
Women in Horticulture and Digitalization			1	1
Sensores y TICs para fertirriego: una visión práctica			1	1
CURSO AGRICULTOR INNOVADOR			1	1
09 Pesticide use reduction in the production of grapes, fruits and vegetables	25	19	33	77
Bulgaria	6	4	5	15
Вредоносен ефект на растителнопаразитните нематоди при оранжерийно зеленчукопроизводство – симптоматика на проявлението, степен на патогенен ефект, успехи и трудности при използването на конвенционален и алтернативен подход в контролирането на вредителите"		1		1
Добри практики от демонстрационните дейности по мрежа 7 "Подобряване на ефективността на хранителните вещества в градинарството" и по мрежа 9 „Намаляване употребата на пестицидите при производството на грозде, плодове и зеленчуци“на проект НЕФЕРТИТИ подходящи за малинопроизводството. Представяне на резултатите от кръстосани работни посещения в Германия и Франция по мрежите и от проведените демонстрации.	1			1
Използване на биологични средства, методи и алтернативни агротехнически практики за растителна защита при биологичното производство на плодове и зеленчуци		1		1
Иновативна технология за превенция от болести и неприятели и защита от температурен стрес при отглеждането на ягодоплодни (малини) и други овощни видове чрез използването на немска овощарска вар	1			1
Интегрирано управление на вредители при отглеждането на трайни насаждения		1		1
Методи и средства за прилагане на интегрирана растителна защита при оранжерийно производство на зеленчукови култури	1			1
Намаляване употребата на пестициди при отглеждането на лозя		1		1
Празник „Златна праскова" - 2019 г.	1			1



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Представяне на дейностите по мрежа 07 "Подобряване на ефективността на хранителните вещества в градинарството" и мрежа 09 „Намаляване употребата на пестицидите при производството на грозде, плодове и зеленчуци“ по проект "Свързани в мрежи европейски ферми за стимулиране на взаимното обогатяване на знанията и използването на иновации чрез демонстрации" (NEFERTITI) по Програма Хоризонт 2020.	1			1
Презентация и демонстрация на проект Нефертити "Control of viral and virus-like diseases in stone and seed fruit crops"	1		1	1
Current technological approaches in nutrition and integrated plant protection in greenhouse vegetable production. Varieties suitable for the local market			1	1
Biological plant protection - theory and practice			1	1
Резитби за формиране при млади сливови насаждения. Биологична растителна защита при отглеждане на сливи. БИОЛОГИЧНО ОТГЛЕЖДАНЕ И ДОБРИ ПРАКТИКИ ЗА РАСТИТЕЛНА ЗАЩИТА И ТОРЕНЕ ПРИ ОТГЛЕЖДАНЕ НА КРУШИ. ХАРАКТЕРИСТИКИ НА РАЗЛИЧНИ СОРТОВЕ			1	1
France	5	4	10	19
1st INNOSETA European workshop on the innovating spraying technologies in viticulture	1			1
Alternative au desherbage chimique au Château Coutet	1			1
Alt'Fongi - essais sur les biocontrôles		1		1
ALT'Fongi's results	1			1
Bonnes pratiques de pulvérisation au Chateau Luchey Halde	1			1
De la météo à l'agrométéo de précision ... Les capteurs viticoles du sol à la vendange			1	1
DémoBio - l'innovation au cœur de l'agriculture biologique			1	1
Démonstration vérification d'une bonne pulvérisation - Demo of a good quality spraying	1			1
Rencontres Viticoles d'Aquitaine		1		1
La vie sans herbi			3	3
Démo Bio			1	1
J'ai choisi le Bio			1	1
Visites d'essais Alt'Fongi Biocontrôle			1	1
Journée techniques Vignes et vin Bio			1	1
Ma vie sans herbi			1	1
Témoignage Pratiques innovantes			1	1
DémoBio			1	1
Germany	4	1	9	14
Einführungskurs Ökologischer Obstbau	1			1
On-farm Demonstration of a new Solution to enhance biodiversity in Orchards	1			1
Online-Seminar „Bodenkundliche Grundlagen und Bedeutung einzelner Nährstoffe im Acker-, Gemüse-, Obstbau und Grünland“		1		1
Organic breeding methods: Reasons, goals and outlook	1			1
Sorten im ökologischen Kernobstanbau: Wo geht es hin?	1			1



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Organic Pomme-Fruit Breeding			1	1
Info-Tour on Resistant Apple Variety 'Natyra'			1	1
Gesunderhaltung der Pflanzen im Öko-Apfelanbau			1	1
Introductory course organic fruit growing			1	1
Neue Wege in die Landwirtschaft			1	1
Zukunftstag			1	1
NW9 Cross-Visit Germany			1	1
Pear Leaf Blister Moth - Workshop			1	1
Fachberatertagung "Ökologischer Obstbau"			1	1
Portugal	4	3	6	13
Confusão sexual: uma nova tática de proteção da vinha em relação à cochonilha-algodão (Grupo Operacional IntenSusVITI)		1	1	2
Demonstração sobre calibração de pulverizadores em vinha	1		1	2
Detection of grapevine trunk diseases using emerging technologies - webinar by Javier Tardaguila (Universidade de la Rioja, "Televitis")		1		1
Mecanização e Automatização em viticultura de encosta	1			1
Pest and disease management in Israeli vineyards		1		1
Visit to Esporão demo-farm in the 11th Alentejo Vine and Wine Symposium	1			1
Visit to Qta. Carvalhas in the IOBC-WPRS Meeting of the Working Group: Integrated Protection in Viticulture	1			1
Uso sustentável de água e pesticidas em viticultura: o contributo do projecto NEFERTITI.			1	1
Estratégias de proteção da vinha em modo de produção biológico			1	1
Variedades resistentes a doenças da vinha			1	1
Infraestruturas ecológicas e proteção da vinha			1	1
Spain	6	7	3	16
Biocontrol de plagas en campo con bandas floridas		1		1
Buenas prácticas agrarias para la reducción del uso de fitosanitarios en viña. Formación y demostración maquinaria intercepas.	1			1
Buenas prácticas agrícolas en el manejo de los cultivos		1		1
Charla de divulgación sobre el control biológico de Tuta absoluta en cooperativa Hortamar (Aguadulce)	1			1
Diagnostic on the state of biological control in greenhouse crop production in Almeria		1		1
Feria de maquinaria Demoagro	1			1
Hands-on experience with Necremnus tuta, a native parasitoid of Tuta absoluta	1			1
La importancia de los setos en la promoción del control biológico en invernaderos		1		1
On-farm demonstration of the biological control of Tuta absoluta by native parasitoids (Necremnus tuta)	1			1
Potato pests and diseases. Organic production	1			1
Promoción de infraestructuras ecológicas (setos) para el control biológico en invernaderos		1		1
Webinar		1		1



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Webinar sobre el beneficio de las infraestructuras ecológicas para el control biológico de plagas en invernadero		1		1
Jornada de producción de legumbres ecológicas de consumo			1	1
Control biológico de plagas en campo con bandas floridas			1	1
Jornada demostrativa proyecto "Mosca del olivo"			1	1
10 You can Farm: Farm attractiveness	37	26	47	110
Croatia	5	7	16	28
Diversifikacija pčelarske proizvodnje	1			1
Holistički pristup u kontroli bolesti pčela	1			1
Izazovi i procedure u evaluaciji kvalitete meda	1			1
Izazovi u suvremenoj tehnologiji pčelarenja te kontroli i suzbijanju bolesti pčela u pčelinjaku		1		1
Kontrola i suzbijanje bolesti pčela		1		1
Praktični radovi u pčelinjaku		1		1
Proizvodnja propolisa		1		1
Sustavi transporta i mehanizacije u pčelarskoj proizvodnji	1			1
Suvremena proizvodnja propolisa		1		1
Suvremena tehnologija u uzgoju pčelinjih matica	1			1
Tehnologija pčelarenja		1		1
Važnost pčelarstva u suvremenoj poljoprivredi		1		1
Involving retirees in beekeeping / agricultural production/Uključivanje umirovljenika u pčelarstvo/poljoprivrednu proizvodnju			1	1
How to attract new entrants to agriculture?/Kako privući nove sudionike u poljoprivredi?			1	1
Sustainable beekeeping - sustainable development/ Održivo pčelarenje - održivi razvoj			1	1
Migratory beekeeping - new ideas in praxis / Seleće pčelarstvo - nove ideje u praksi			1	1
Diversification of agricultural production/Diversifikacija poljoprivredne proizvodnje			1	1
Honey bee health - can we protect bees from pests and pathogens?/Zdravlje medonosnih pčela - možemo li zaštititi pčele od štetnika i patogena?			1	1
Moderno pčelarstvo			1	1
Prvi koraci u ovčarstvu i kozarstvu			1	1
Proletni radovi u pčelinjaku			1	1
Mehanizacija i transporti u pčelinjaku - nova rješenja			1	1
Dijagnostičko tretiranje varooze			1	1
Izazovi u tehnologiji pčelarenja - novi modeli			1	1
Beekeeping from an early age/ Pčelarstvo od malih nogu			1	1
How to reduce costs and increase production in beekeeping?/Kako smanjiti troškove i povećati proizvodnju u pčelarstvu?			1	1
Can we be successful in beef and sheep production in Dalmatia?/Možemo li biti uspješni u proizvodnji govedine i ovaca u Dalmaciji?			1	1
How to attract people to beekeeping - an experience from Croatia.			1	1
France	6	1	8	15



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Ciné Débat Même pas peur d'être éleveur	1		2	3
Ciné-Débat : même pas peur d'être éleveur	1			1
Demo-Days	1			1
Journée portes ouvertes	2			2
La ferme Naturell'Mans	1			1
Semaine découverte Pépinière Faire Bien		1		1
Chat Live Devenir Eleveur : la formation BPREA			1	1
Ciné Débat Même pas peur d'être éleveur Neufchâtel en Bray			1	1
FarmDating : Retiring framers meet new entrants			1	1
Rallye des fermes à reprendre en Tourraine			1	1
S'installer en agriculture			1	1
Présentation of agricultural training to middle school student			1	1
Germany	8	4	4	16
101. Tierschau Stollhamm e.V.	1			1
21. Berufsfindungsmesse Brake	1			1
Farm walk "Innovativ weiden"	1			1
Frühstück sucht Gast	1			1
Grünes Klassenzimmer – der Beruf „Landwirt“	1			1
Junglandwirteexkurison	1			1
On farm lesson for agricultural students		1		1
Online FarmDemo: Betreuung auf dem Bauernhof		1		1
Online FarmDemo: Bröös Lieferservice mit regionalen Produkten			1	1
Schülerexkursion Gymnasium Brake		1		1
Vom Kalb zur Kuh	1			1
Vortrag Weidemanagement	1			1
Online Farmdemo : Ausserfamiliäre Hofübergabe			1	1
Führung durch die Bauernhofkita			1	1
Online Farm Demo : Existenzgründung			1	1
Online Farmdemo: Kuh-Stories			1	1
Hungary	7	4	7	18
A biomassza alapú gazdaság helyi fejlesztési lehetőségei		1		1
A szaktanácsadás népszerűsítése fiatal gazdák számára	1			1
Bábolnai Nemzetközi Gazdanapok	1	1		2
Farmer találkozó	1			1
Gazdálkodói workshop		1		1
Innovációs nyílt nap gazdálkodók és további érdeklődők számára	1			1
Kari mintagazdasági hálózat bemutatása fiataloknak – szerteágazó karrierlehetőségek a mezőgazdaságban	1			1
NAK szántóföldi napok és agrárgépshow	1		1	2
PREGA Next Generation		1		1
Regionális Charolais rendezvény	1			1
A szaktanácsadók szerepe a tudásmegosztásban / The role of consultants in knowledgetransfer			1	1
Szántóföldi Szemlekorok			1	1
How Precision agriculture increase the attractiveness of farming			1	1
Regionális szakmai fórum			1	1



NEFERTITI

Networking European Farms to Enhance Cross Fertilisation and Innovation Uptake through Demonstration

Deliverable 3.3: Report of the third demonstration campaign

Farm Attractiveness Week - Légy mezőgazdasági szaktanácsadó!			1	1
Agrártájéoló			1	1
Ireland	5	5	5	15
Agri Aware "Walk and Talk" at Teagasc Moorepark		1		1
Careers in dairy farming - Lets talk dairy webinar		1		1
IASTA Ag Venture 2019	1			1
Instagram takeover featuring Ed Payne		1		1
Instagram Takeover featuring Kieran McDermott		1		1
Moorepark 2019 - Teagasc National Dairy Open Day	1			1
NEFERTITI "You can farm" webinar		1		1
NEFERTITI Farm Attractiveness event	1			1
NEFERTITI You Can Farm event	1			1
'You Can Farm'	1			1
A Day in the Life of a Farmer, Cian Jobe			1	1
A Day in the Life of a Dairy Farmer, Laura Hannon			1	1
Photo Competition Announcement of winners			1	1
NEFERTITI Farm Attractiveness at the Moorepark Open days			1	1
Have you considered a career in agriculture?			1	1
United Kingdom	6	5	7	18
'Sustainable farming post-Covid: experiences of young farmers from Tarland'		1		1
Arable Conversations: New entrants to arable farming: opportunities and obstacles - part of Arable Scotland	1			1
Integrating woodland on new entrant farms and crofts		1		1
Is the Grass Always Greener?		1		1
LEAF Open Farm Sunday - Bigton Farm - Shetland Monitor Farm	1			1
LEAF Open Farm Sunday - Clonhie Farm, Nithsdale Monitor Farm	1			1
New Entrants 'Pod' at the Royal Highland Show	1			1
New People, New Pathways – Routes into Arable Production and Alternative Crops		1		1
NFUS Dumfries and Galloway Next Generation Event: Finding Your Pathway into Agriculture	1			1
Nithsdale Monitor Farm meeting	1			1
'The Ramsays - Farming NZ Style'		1		1
Future Proofing Your Business			1	1
Arable Scotland - NEFERTITI Scottish Hub booth - Young Farmer 'Drop-in'			1	1
How can young farmers tackle the climate emergency?			1	1
What do we mean by Climate Positive Farming?			1	1
Farming Careers and Routes to Success			1	1
Alternative Pathways for Sustainable Agriculture			1	1
Farming for the Future: Leading Positive Change			1	1
Total général	260	211	322	793