



Networking European Farms to Enhance cRoss  
ferTilisation and Innovation uptake Through demonstration



## NEFERTITI 2019 ON FARM DEMONSTRATION CAMPAIGN REPORT

Photo: Thomas Alföldi - FiBL

### Nefertiti: networking, exchanging knowledge and supporting demonstration events on 10 MAJOR AGRICULTURAL CHALLENGES

#### NEFERTITI PROJECT IS

**7M€**  
network

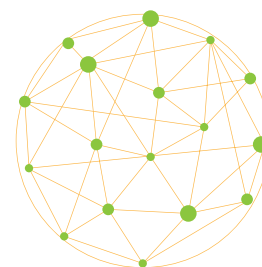
**32**  
partners

**17**  
countries

A unique Network (selected for 4 years under Horizon 2020, Societal Challenge 2, RUR 12-2017 call) comprising 32 partners from 17 countries and coordinated by ACTA, the head of Network of the French Agricultural Technical Institutes.

#### OBJECTIVE

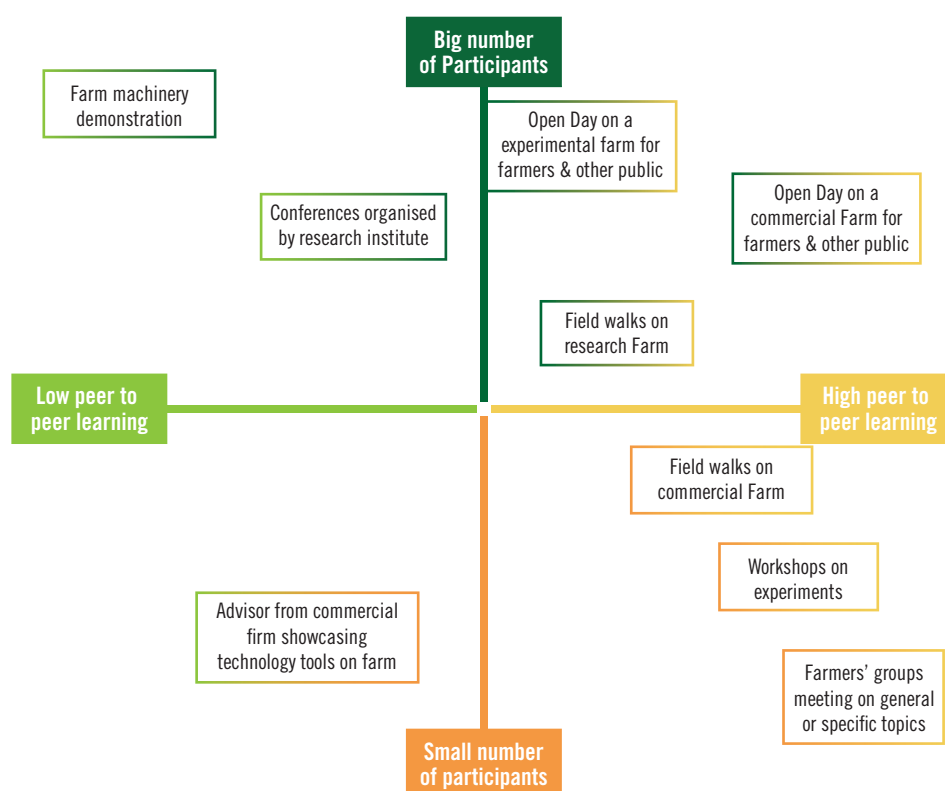
The overall objective of NEFERTITI is to establish an EU-wide highly connected network of demonstration and pilot farms designed to enhance knowledge exchanges, cross fertilization among actors and efficient innovation uptake in the farming sector through peer-to-peer demonstration of techniques on 10 major agricultural challenges in Europe.



#### An objective to support a wide range of demonstration events

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 to base on a certain kind of knowledge exchanges: farmer to farmer and farmer to innovations actors. 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. They can be divided on two main characteristics scales:

- 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 uptake.



Demo event examples placed on a two main characteristics scale.

Nefertiti  
2019

17  
countries

10  
networks

45  
regional hubs

267  
annual demo events

10 interactive thematic networks have been created, bringing together 45 regional clusters (hubs) of demo-farmers and innovations actors: advisors, education, NGOs, researchers, industry and policy makers. The themes have been selected based on the feasibility of the demonstration, the expected impact, the effectiveness of the demo-activities and the innovation potential. Together they cover a balanced range of topics in the three main agricultural sectors: animal production, arable farming and horticultural production.

So far, over 450 demo-farmers and innovation actors have been involved in the regional and national hubs. In 2019, they have organized and/or connected to Nefertiti project, 267 demonstration events focused on the 10 thematic of the networks.

Number of demo events per network and per hub



03

Robust organic livestock systems

Leader: **INTIA**

Category: **Applied research**

France = 5
Germany = 7
Spain = 5
UK = 4
Croatia = 6

27

04

Optimal soil quality in arable crops

Leader: **inagro**  
RECHERCHE AGRICOLE ET INNOVATION

Category: **Applied research**

Belgium = 12
Netherlands = 7
Poland = 8
Spain = 6

33

05

Arable crop sensing & variable rate applications

Leader: **WAGENINGEN UNIVERSITY & RESEARCH**

Category: **Applied research**

Finland = 3
France = 3
Hungary = 8
Netherlands = 5
Poland = 6

25

06

Increasing productivity & quality in organic arable crops

Leader: **CDR**

Category: **Advisory services**

Finland = 8
Germany = 4
Poland = 8
Spain = 5

25

07

Improved nutrient use efficiency in horticulture

Leader: **HGG VAA**

Category: **Advisory services**

Bulgaria = 7
Germany = 4
Netherlands = 5
Spain = 5

21

08

Water use efficiency in horticulture

Leader: **UNIVERSIDAD DE ALMERIA**

Category: **Academia**

Netherlands = 4
Poland = 5
Portugal = 6
Spain = 6

21

09

Reducing pesticides use in the production of grapes, fruits & vegetables

Leader: **IFV**  
INSTITUT FRANÇAIS DE LA VITICULTURE ET DU VIN

Category: **Applied research**

Bulgaria = 6
France = 5
Germany = 4
Portugal = 5
Spain = 6

26

10

Farm attractiveness

Leader: **eagasc**  
ASSOCIATION FOR RURAL DEVELOPMENT ACTIVITIES

Category: **Advisory services**

France = 2
Germany = 8
Hungary = 7
Ireland = 5
UK = 7
Croatia = 5

34

Animal production

Arable farming

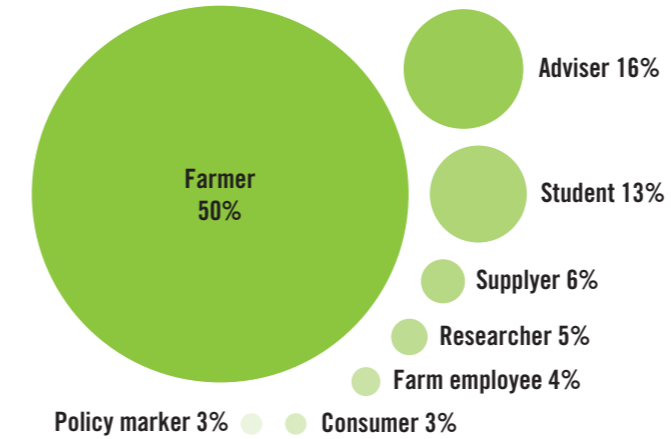
Horticulture



Photo:Thomas Alföldi - FiBL

12.000 participants in Nefertiti Events

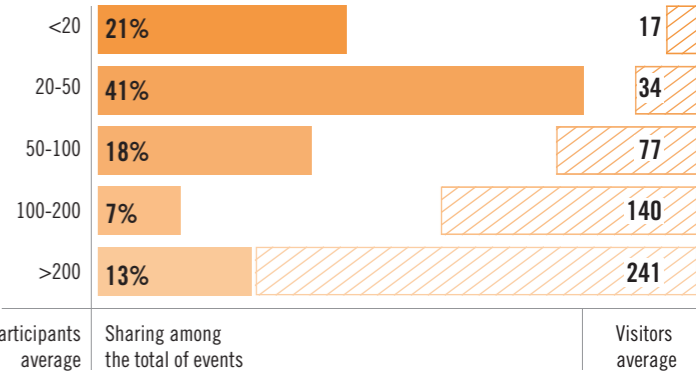
Farmers are our first target and have represented 50% of the total number of participants (6.000). With 3.400 participants, agricultural adviser and students represent 28% of the total number of participants.



Number of participants and share among types (%).

71 % of the event take place on a commercial farm

The project supports different kind of events with a good balance between their size: from little groups of farmers with a high degree of peer to peer learning to bigger events with a lots of innovations presentation.



Events distribution per participants average.

The innovations presented and demonstrated during demo events come from research (38%), farmers (36%) and supply chain company (26%)

Hub actors, farmers, event organisers have several goals and use different kind methodologies to promote their event and present the innovations.

Demo Events Goals	Demo methodology to present innovation	Event promotion	Speakers
1 Innovation uptake	1 Oral presentation	1 Website	1 Advisers
2 Competitiveness/ Productivity	2 Field walks	2 Mailing	2 Farmers
3 Farmer and rural networking	3 Demonstration display	3 Social media	3 Researchers
4 Improved environmental conditions	4 Interactive discussion	4 Agricultural Newspaper	4 Supply chain actors

## Report on the Nefertiti Cross-Visits in 2019

A NEFERTITI Cross-Visit is a “cross border demonstration” gathering the manager of the demonstration hubs and the demo-farmers of a given network. For 2 days, participants attend 2 /3 demonstration events and exchange technical knowledge as well as demonstration knowledge to learn about new farming practices from other countries, contexts and AKIS (Agriculture Knowledge and Innovation Systems).

**Network 10** in Galloway/Dumfries (Scotland), 25 to 27/07/19

**Network 8** in Evora (Portugal), 28 to 29/10/19

**Network 9** in Bordeaux (France), 25 to 26/07/19

**Network 5** in Netherlands, 21 to 22/08/19

**Networks 6&7** in Kassel (Germany), 02 to 04/07/19

**Network 3** in Germany, 17 to 18/07/19

**Networks 1&2** in Lower-Saxony (Germany), 12/06/19

**Network 4** in Zamosc (Poland), 25 to 27/06/19

### 2019 Cross Visits Figures

- **8 Cross Visits** organised in **5 countries** during summer and autumn.
- **4 networks** (1+2 & 6+7) coordinate to organise joint Cross Visits.
- **18 days of Cross-Visits** and cross boarder demonstrations.
- **28 Demonstration events** organised trough the Cross Visits.
- **169 participants** to the Cross-Visits (20 in average).
- **48 farmers travelled** across Europe to participate to Cross Visits.

**Interested in peer-to-peer learning and in on-farm Demonstration activities?**

Join NEFERTITI 2020 and 2021 demonstration 'campaign!

### Testimonies

**Sylvia Marx-Marty, organic dairy farmer, Guéhenno (Britany Region – France)**

I participated with my partner in the cross visit to Germany in Uberlingen. I appreciated the times of discussion with the other farmers of the network "Robust organic farming systems". It's always enriching to share each other's experiences, and to discover innovative techniques. We have also implemented certain agricultural practices encountered in Germany when we return to our farm.



**Bozhidar Petkov - Raspberry Producer - Dalbok Dol (Lovech region – Bulgaria)**

My participation in the cross visit to Bordeaux, France was extremely helpful to me. I saw how it is possible to be combined the tradition and innovation approach in viticulture - using simultaneously horses as a basic workforce and weed mini-robots for weed control. Also, using a “smart” environmental care sprayer and applying innovative approaches to protect vineyards through the use of smart devices and equipment without use of chemicals. I plan to use most of demonstrated innovations in the future, nevertheless my farm is for raspberry production.

