

Legumes Translated Deliverable Report

Deliverable 6.3

Related projects and collaboration plan

Due date: 31 October 2019

Project start date: 1 November 2018

Duration: 36 months

Work packages: Communications and impact (WP6)

Work package leader: Helga Willer, Research Institute of Organic Agriculture (FiBL)

Relevant tasks: Leading the work of the actor groups (Task 2.3) and Data and information management (Task 2.5)

Relevant task leaders: Helga Willer (FiBL). The work was done by Donal Murphy-Bokern

Nature of deliverable: Report

Dissemination level: Confidential to the consortium and the EC



Objectives of the task supporting the contract deliverable

The objectives of Work Package 6 are to:

1. guide the consortium with a strategic approach to communications and publication;
2. promote widespread awareness of the project in target groups;
3. implement the project's communications programme;
4. support delivery of key outputs to users; and
5. promote the long-term impact of the project

Task 6.2 (A strategic approach to impact) is mostly about the development and maintenance of a dissemination strategy. This is reported in Legumes Translated Report 6.2¹ Complementing this and to achieve optimum synergies with other projects, the Dissemination and Exploitation plan will include a report on related projects and collaboration plan. That report is the subject of Deliverable 6.3 presented here. Opportunities to collaborate actively with the communications activities of on-going projects will be explored through direct liaison. Emerging relevant operational groups will be contacted to build collaboration and mutual support, complementing those already associated with our actor groups.

Activities undertaken

This work was conducted by DMB supported by the leaders of the transition networks and representatives of actor groups in particular. It was conducted in close collaboration with Task 2.2 (Science coordination, (DMB), Task 2.3 (Leading the work of the actor groups, Christine Watson, SRUC), Task 2.6 (Scientific horizon scanning, Christine Watson, SRUC), and Task 3.1 (Synthesis of actor group knowledge, actor group representatives). Deliverable Reports 2.1 (Project roadmap and data management plan) and 2.2 are relevant (Work plan for transition networks) report relevant supporting activity.

The work started with a review of the range of projects that were known at the time the project was established. A presentation from Gaeten Dubois (EC) at the first consortium meeting in Vienna on 19-21 November set out a range of past and current EU Framework Programme projects that are potentially relevant to Legumes Translated (Figures 1 and 2 of Annex 1.).

We identified key ongoing Horizon 2020 projects as set out in Annex 1. The Executive Committee and the Innovation Group members together lead in liaison with these projects. Of particular relevance are projects that make up the Crop Diversity Cluster. These are monitored closely by the members of the Executive Committee and other partners. The second consortium meeting was held in Budapest on 17-18 September 2019 in order to encourage and facilitate partners to attend the cluster's European Conference on Crop

¹ Willer, H. and Murphy-Bokern, D. (2019). Legumes Translated Report 6.2. Dissemination and exploitation plan. www.legumestranslated.eu

Diversity on 18-21 September in Budapest. Ten members of the consortium attended the ECCD.

Legumes Translated is closely associated with LegValue. DMB attended the LegValue consortium meeting in Soest Germany on 3–5 June 2019 where he made a full presentation of Legumes Translated. In return, Frederick Muel as coordinator of LegValue attended the Legume Translated consortium meeting in September 2019.

Of particular note is the effort to connect with the main German legume networking projects which are directly represented by the German-based actor groups. In addition, DMB and NN representing the German Pea and Bean Network have used the BLE workshop on 20-21 February at Hofgut Eichigt in Sachsen to link with the all the relevant German operational groups.

Results

The collaboration plan is a living document. The current version is presented in Annex 1.

It is important to keep in mind that the nature of collaboration between a thematic network and relevant R&D projects is different than that between R&D projects where exchange of methodology, data and experimental resources can be arranged. For a thematic network, collaborative interaction is more about following and taking note the output of other projects and building that knowledge into the thematic network's outputs. In principle, a thematic network can serve as an effective conduit to the EIP Agri for other projects and the offer of such a service lies at the core of our collaboration approach.

A general principle of the collaboration plan is that Legumes Translated operates as a open publication platform for all relevant project consortia. This approach is embedded in the forming of publications and the operation of the Legumes Hub. All publication outputs are the property of the authors and their project consortia.

The collaboration plan for the international Horizon 2020 projects is to use specified consortium members to liaise with each project as set out above.

For national and past framework projects, the general strategy for inter-project collaboration is that our actor groups working in the transition networks act as primary contact points. Within each transition network, each actor group maintains links with relevant national projects. The transition networks thus serve as a liaison point for national projects and for some relevant framework programme projects, e.g. Legumes Futures. The relevance of these projects' outputs is assessed using the interaction processes within each transition network. This work is on-going and is an integral part of the work of transition networks.

Conclusions

A number of projects are already well integrated into the work of Legumes Translated as indicated in the collaboration plan. The knowledge resources available through this route are sufficient to make Legumes Translated effectively access a wide knowledge base. The overall

strategy of accessing projects through the actor groups and transition networks in a natural way is working well. This is complemented by our work with the Crop Diversity Cluster.

There remains however some challenges already noted which include:

1. The six on-going Horizon 2020 collaborative research projects are still in their early-mid research phases. With the exception of some work on policy, their outputs are not yet ready for widescale inclusion in Legumes Translated.
2. The fact that the research system does not reward researchers who support a wider range of impacts through engaging with the innovation and related users of research.
3. Most Horizon 2020 projects are already required to produce practice abstracts for the EIP Agri. There is little incentive to use the services of a relevant thematic network.
4. At least in the consortium's experience in the first year, operational groups are not fully aware of the benefits of interacting with a relevant thematic network to help support the EIP Agri.

The collaboration plan in Annex 1 will be reviewed every six months by the Executive Committee and will be the subject of discussion at the consortium meeting in 2020.

Donal Murphy-Bokern

30 October 2019



Annex 1

Collaboration plan for related projects

Prepared by:

Donal Murphy-Bokern

30 October 2019



Legumes Translated (Translating knowledge for legume-based farming for feed and food systems) has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 817634

Background

This report sets out the consortium's plan for collaboration with related projects. This is a living document which will be updated at least every six months as a report to the Executive Committee and wider consortium.

The project contract highlights that each actor group is connected to its own national or regional innovation project. In addition, all research-based partners have led or are leading relevant research at national and regional level. Partners are also connected to several EIP Agri Operational Groups. These connections give the consortium a uniquely diverse and dense linkage to the European research and innovation base in this area. Examples of connected projects at the national level as listed in the project contract are set out in the Annex.

Legumes Translated offers an open publication platform

A general principle of the collaboration plan is that Legumes Translated operates as an open publication platform for all relevant project consortia. This means that Legumes Translated offers a service that supports access to the EIP Agri and publication. This approach is embedded in the formatting of publication outputs and the operation of the Legumes Hub. All publication outputs are the property of the authors and their project consortia. We are systematically offering relevant project consortia the opportunity to work on joint practice notes and other outputs. As an example, our first video is the result of inter-project collaboration. Using an open approach, all our stock visual materials are available over a cloud-based archive and will be incorporated into the Legume Hub. In investing in collaborative activities, we remain mindful of the clear guidance from the EC to focus our work.

The collaboration plan for the international Horizon 2020 projects uses specified consortium members to liaise with each project. The Executive Committee and the Innovation Group members together lead in liaison with these projects. Of particular relevance are the six projects that make up the Crop Diversity Cluster. These are responsible for checking out options for collaboration with each consortium.

As set out in Deliverable Report 6.2 (Dissemination and exploitation plan), we are using Twitter to network with the Crop Diversity Cluster projects.

These Horizon 2020 projects are monitored within Legumes Translated as follows:

LegValue

LegValue is represented by a close liaison between Frederick Muel and DMB. LegValue is of particular relevance. DMB attended the third annual meeting of the LegValue consortium in June 2019 and Frederick Muel (the Coordinator of LegValue) attended the second annual consortium meeting of Legume Translated on 17-18 September 2019. Juergen Recknagel (LTZ) representing the German Soy Association is also involved in

liaison with LegValue as is ZALF in relation of economic assessments of cropping systems.

Remix (represented by Christine Watson (SRUC))

The SRUC represented by Christine Watson is a member of the REMIX consortium. She is also the chairman of the Tools Crop Diversity Working Group.

DiverIMPACT

Donal Murphy-Bokern is a member of the DiverIMPACT Stakeholder Advisory Committee. This gives him insight into the outputs of that project. FiBL is a member of the DiverIMPACT consortium.

TRUE

TRUE focuses on the development and assessment of new niche food products. Led by HEL (Casimir Schauman), the Food Transition Network interacts with TRUE and incorporates relevant results. Donal Murphy-Bokern is also in regular contact with the members of TRUE that are based in Germany. ZALF is supporting the TRUE project with rotation data.

National and regional projects

For national and past framework projects, the general strategy for inter-project collaboration is that our actor groups working in the transition networks act as primary contact points. Within each transition network, each actor group maintains links with relevant national projects. The transition networks thus serve as a liaison point for national projects and for some relevant framework programme projects, e.g. Legumes Futures. The relevance of these projects' outputs is assessed using the interaction processes within each transition network. This work is on-going and is an integral part of the work of transition networks.

The connections between Legumes Translated and the national/local projects that support the 15 actor groups are described in Deliverable Report 2.1. This collaboration within the actor groups is not further described here. In addition to these actor group collaborations, further specific collaboration points are as follows:

German Soybean Association, Juergen Recknagel, LTZ

As leader of the Soy Transition Network, Juergen Recknagel is in liaison with LegValue to support relevant knowledge interaction, especially in France. (www.legvalue.eu). Along with the LLH, the LTZ is involved in the [German Pea and Bean Network](#). It is also involved in the Baden-Württemberg Protein Initiative. (<http://eiweiss-initiative-bw.de>).

Schwaebisch Hall Producers (BESH), Astrid Heid

Contacts with the Baden-Württemberg Protein Initiative. (<http://eiweiss-initiative-bw.de>) and the [German Pea and Bean Network](#) regarding joint events (seminars/lectures/field days) and/or inviting experts as speakers. BESH also follows The TRUE project via the University of Hohenheim; Kompetenz- und Praxis-Forschungsnetzwerk zur Weiterentwicklung des Nährstoffmanagements im ökologischen Landbau, [NutriNet](#) through the project partner Demeter e.V.

Europe Soya Value Chain Development Group, Leo Rittler (DS)

Donau Soja represented by Leo Rittler is a partner in the [OK Ecofeed thematic network](#). Working closely with DMB and IFVC, DS led the initiation of the European Soy Improvement Network (ESIN) www.esinet.eu. The participation of DS in Legumes Translated also gives the consortium access to two major development projects funded by the Austrian Development Agency: [ADA Strategic Partnership](#) and [ADA Moldova project](#)

The Brandenburg Farmers' Network, Inka Notz, ZALF

Leading the Cool-season Grain Legume Network, ZALF provides a connection to the following projects and introduces results from them into Legumes Translated:

Legume Gap (www.suscrop.eu/projects-first-call/legumegap) with SRUC (Christine Watson, HEL (Fred Stoddard (coordinator of LegGap). ZALF also leads a new German DFG-funded project about the effects of climate on yield stability ([Einfluss des Klimas auf die Ertragsstabilität von Körnerleguminsen](#)).

[INNISOY](#) - Innovatives Netzwerk zur Verbesserung der Sojabohnenproduktion unter dem globalen Wandel.

Szenarien für Biodiversität und Ökosystemleistungen von Agrarlandschaften (SALBES) (<https://salbes.eu/>).

ZALF also provides the main conduit for the results of the Legumes Futures project (Framework Programme 7).

SAC Dairy Group, Jennifer Flockhart, SRUC

The SAC Dairy Group links Legumes Translated to the Dairy4Future project (<https://dairy4future.eu/>). This project is engaging with 100 innovative farms across the Atlantic region – although none in SW Scotland, there are farmers looking at legume innovations in other areas (white clover in Ireland).

LegumesforFish, Dimitris Barkas (NIRE)

Through the close collaboration with the University of Thessaly, Legumes Translated is very closely associated with the PerformFish project (<http://performfish.eu/consortium/>) in Horizon 2020. It is also connected to a larger number of past and on-going projects on fish nutrition that is channeled into Legumes Translated through NIRE.

Ground for Growth, Kristina Lindström and Casimir Schauman (HEL)

HEL is the coordinator of LegGAP (Fred Stoddard) which involves ZALF and SRUC. HEL is also involved in the new Finnish project called [Leg4Life](#) which provides an example of an integrated, farm-to-fork project on plant protein production, transformation in the food chain, nutrition, economics and sociology. HEL is involved in the ERANET SusCrop project ProFaba (www.suscrop.eu/call-information/1st-call)

Some background

The following text is from the project proposal.

Austria: Traceability and quality of soy (DS/Austrian Ministry of Agriculture).

United Kingdom: Alternative approaches to sustainable land management (SRUC/RESAS); Home grown legumes for pigs-GreenPig (SRUC/Defra Link LK0682). Redesigning European cropping systems based on species MIXtures (ReMIX) SRUC/EU H2020

Switzerland: Breeding research on anthracnose tolerance and intercropping of lupin (2014 – 2023); Organic intercropping with leguminous plants (2015 – 2017); Organic soya in Switzerland – optimizing the Swiss production chain (2016 – 2019); resPEAct – Improving disease resistance of pea (2016-2019); Sainfoin – a valuable forage plant for the Swiss agricultural environment (2014 – 2017). Redesigning European cropping systems based on species MIXtures (ReMIX) FIBL/EU H2020

Ireland: Irish Farmers Association Grain levy funded break crop agronomy programme (2014-2019). Irish Government Stimulus Funding: Irish Centre for Crop Improvements (2014-2019); CropQuest; Canopy development in faba bean (2015-2020).

Germany: A very wide range of research and demonstration projects funded at Federal and State level, many in the BOELN programme. 51F² ZALF is also involved in relevant European Structural and Investment Fund projects (ELER) on cropping systems in Brandenburg.

Bulgaria: Integrated, functional and comparative genomics of model legumes *Medicago truncatula* and *Lotus japonicus*-D 02-268, (2009-2013) National Science Fund. Hormonal crosstalk between auxin and strigolactones in *Medicago truncatula* plants with modified auxin transport *Medicago truncatula* plants are able to mitigate the effect of Pi-starvation 2017-2018, BNSF-DM-06/2.

"Functional and bioinformatic analyzes of GRAS transcription factors related to the response to abiotic and biotic stress in *Medicago truncatula* and *Medicago sativa* alfalfa" 2018-2021 BNSF-H-16/26.

"Transcriptomic and metabolomics analyses in genes involved in the process of seeds maturation and nodulation in legumes" 2018-2021 BNSF-H-16/44.

France: LEGITIMES: LEGume Insertion in Territories to Induce Main Ecosystem Services (ANR France, 2015-2017); ALLIANCE: Improving ecological and economic performances of cereal systems using association with legumes (CASDAR France, 2014-2016); INNOVAB: Conception of innovative cereal systems for organic agriculture (CASDAR France, 2014-2016); EAU ET BIO: Designing innovative farming systems preserving water resources (Agence de l'Eau, 2014-2017); AGRINOV: Soil biological indicators (CASDAR 2014-2016). CASDAR Associations (2012-2014); CASDAR Alliance (2014-2017); PSDR PROSYS (2016-2019)

² http://www.ble.de/DE/03_Forschungsfoerderung/02_OekologischerLandbau/OekologischerLandbau_node.html

International Projects: Legumes Translated draws directly on international projects funded by south-east Europe Austrian Development Agency aimed at economic development in the Danube Region and projects from the German Federal Ministry for Economic Cooperation and Development (BMZ): High-quality, GMO-free soya from the Danube region (Bosnia and Herzegovina and Serbia) (2014-2017). There will also be close collaboration with a new European Neighbourhood Instrument project which is led Co-learning cycle 2 will integrate a wide range of national projects (for example CropQuest⁴ (Ireland)) into our Actor Groups. We build on the results of Legume Futures, and share partners with the current or recently completed projects OSCAR, LEGATO, EUROLEGUMES, TRUE, OK-Net EcoFeed, and FertilCrop (an ERANET project). We also share partners with Climate Café (FACCE JPI) and Protein2Food, both of which are very relevant. We will work on national and EU levels to ensure that, where appropriate, Operational Groups, Transition Networks and the EIP Agri are fully aware of the work within the project. Legumes Translated has a strong networking character and we intend to network with new EU projects such as those arising from call H2020-RUR-2016-2017 Rural Renaissance - Fostering innovation and business opportunities and specifically to call RUR-06-2016: Crop diversification systems for the delivery of food, feed, industrial products and ecosystems services - from farm benefits to value-chain organisation. We will also reach out to other projects where appropriate, such as SFS-02-2016 Teaming up for good: Exploiting the benefits of species diversity in cropping systems, and the EURODAIRY Thematic Network.

Of special note is our plan to collaborate with the Terres Inovia-led Horizon 2020 project 'Leg-Value' (see Section 6.1). This project is highly synergistic with Legume Translations. Leg-Value will provide direct access to the output of networks in France and Spain in particular, while Legume Translations through access to the Transition Networks will provide Leg-Value with additional routes to impact through the EIP Agri., which will be set out in the Dissemination and Exploitation Plan (D5.2) We also have close links to the coordinated group of EU projects on crop diversification which includes ReMIX, DIVERSIFY, TRUE, Leg-Value, DIVERIMPACTS and DIVERFARMING through team members within ReMIX.

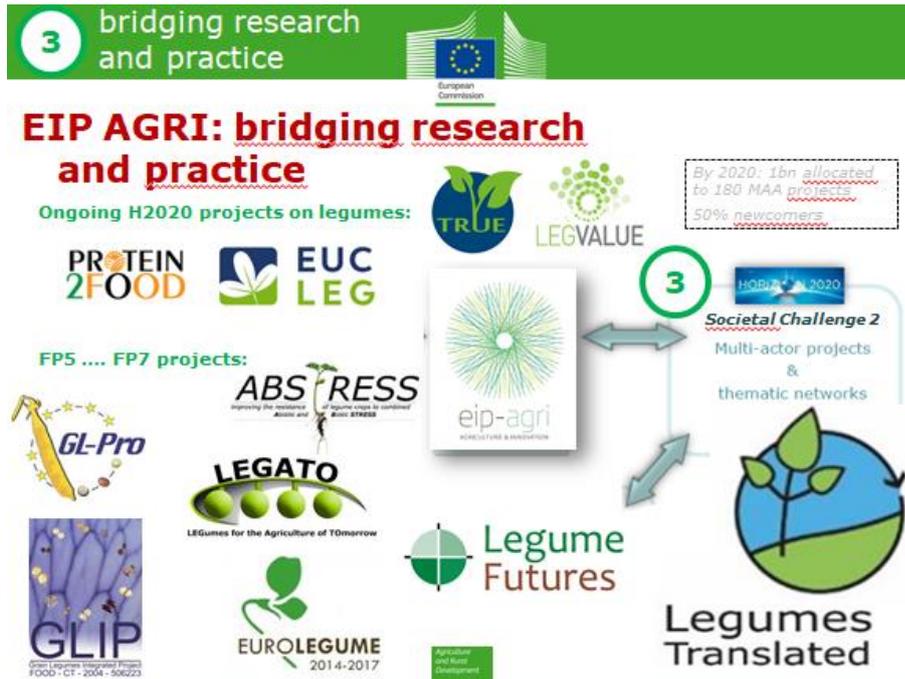


Figure 1. A slide from the European Commission presentation made at the first consortium meeting (Gaetan Dubois)



Figure 2. A slide from the European Commission presentation made at the first consortium meeting (Gaetan Dubois)