



TRansition paths to sUustainable  
legume-based systems in Europe

## 5<sup>th</sup> Newsletter of the TRUE Project

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Legume based news and links  
related to the EU-H2020-project TRUE

*September 2020*



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[www.true-project.eu](http://www.true-project.eu)



*Dear Legume Stakeholders,*

*we are delighted to provide the fifth edition of the TRUE newsletters. We hope you will find the information and links we provide both interesting and useful.* The final year of the project is targeting on the identification of transition paths for more legumes on Europe's fields and plates. Since our previous newsletter there are many new papers and deliverables published and you can find many blogposts and other news on the TRUE website. There are two upcoming [Legume Innovation Network Workshops](#) to involve legume stakeholders in the project process. The efforts will also lead to found the [Legume Innovation Network \(LIN\)](#) at a joint conference "[European Legumes in Transition](#)" by TRUE and LEGVALUE in Brussels next spring.

**For information about the structure of TRUE please visit [www.true-project.eu](http://www.true-project.eu)**

## Latest published reports and deliverables:

- Report of the 2nd Mediterranean LIN Workshop - **"Sustainability in legume agri-food chains"** ([download pdf](#))
- Report of the 3rd Continental LIN Workshop - **"Realising the ecological-health approach: consumers' transition to legume-based diets"** ([download pdf](#))
- Project Review, Impact and Legacy Plan - Report I ([download pdf](#))
- Annual activity plan - Year IV ([download pdf](#))
- Scientific, practice and policy publications – Year III ([download pdf](#))
- The Environmental Assessment of Diets ([download pdf](#))
- Facilitating the EU market demand for legume-grain and -fodder as feeds ([download pdf](#))
- Behavioural analysis of farmers' and consumers' choice for legume uptake ([see on Zenodo](#))
- Decision Support Models for the Evaluation of Legume-Based Systems: Environment, Economy and Socio-policy ([download pdf](#))
- Impact plan recommendations ([download pdf](#))
- Summary Leaflet: attributional LCA for legumes and legume-based products ([download pdf](#))
- Open Access Database for Life Cycle Analysis ([download pdf](#))
- A map of value chains for legumes used as food ([download pdf](#))
- Application of Delphi for governance contexts which favour legume-supported value chains ([download pdf](#))
- Best practices for the commercialisation of legumes ([download pdf](#))
- Sustainable Development Indicators for Quality Chains ([download pdf](#))
- Scientific, practice and policy publications in year 2 ([download pdf](#))
- Business Cases ([download pdf](#))
- Practice Abstracts ([download pdf](#))





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## Papers published recently by TRUE members

- Santos et al. (2019) [Variation in Pea \(\*Pisum sativum\* L.\) Seed Quality Traits Defined by Physicochemical Functional Properties](#)
- Weiss et al. (2020) [Lupin kernel meal as fishmeal replacement in formulated feeds for the Whiteleg Shrimp \(\*Litopenaeus vannamei\*\)](#)
- Ferreira et al. (2020) [Benefits of pulse consumption on metabolism and health: A systematic review of randomized controlled trials](#)
- Vasconcelos et al. (2019) [Editorial: Transitions to Sustainable Food and Feed Systems](#)
- Roriz et al. (2020) [Legume Biofortification and the Role of Plant Growth-Promoting Bacteria in a Sustainable Agricultural Era](#)
- Santos et al. (2020) [The Effect of Sprouting in Lentil \(\*Lens culinaris\*\) Nutritional and Microbiological Profile](#)
- Black et al. (2020) [Utilization of Low Nitrogen Barley for Production of Distilling Quality Malt](#)
- Saget et al. (2020) [Substituting wheat with chickpea flour in pasta production delivers more nutrition at a lower environmental cost](#)
- Costa et al. (2020) [Representing crop rotations in life cycle assessment: a review of legume LCA studies](#)
- *Read more about [project publications](#) [here](#)*

## Some special announcements of specific parts of the project website:

In the **Blog "Notes from the Field"** you can find regular short updates by TRUE members regarding the research and innovation progress in the Case Studies and Work Packages.

[Read more...](#)

*List of the latest blog contributions:*

- **[The daily \(legume\) bread](#)**: New ways of including legumes in bread
- **[TRUE ISAB interviews](#)**: Interviews with members of the Intercontinental Scientific Advisory Board (ISAB) of the TRUE project
- **[Incorporating white clover on cattle and sheep farms](#)**: Training video for cattle and sheep farms on "Optimising the benefits of clover in grassland" as part of the webinar "Let's talk cattle and sheep". [Read more...](#)





- **Mowing mulches: a means for managing competition?**: Leguminous living mulches have been shown to support a broad range of positive effects on biotic and abiotic indicators in broad-acre arable production, including soil health. With their nitrogen-fixing potential, they can also play a role in achieving sustainability goals and targets – for example, by naturally fixing nitrogen into the soil, they can help reduce dependence on artificial nitrogen fertiliser inputs, which in turn can reduce nitrous oxide emissions. [Read more...](#)
- **Adding value: a central role for legumes**: TRUE Project Coordinator Pete Iannetta on the valuable contribution legumes can make to crop rotation. [Read more...](#)
- **Reducing costs through good clover management**: Dan Clavin has made a pre-recorded presentation on CS2 for the Irish Farmers Association (72,000 members) that was presented at a virtual conference on smart farming on April 30th 2020. [Read more...](#)
- **Climate positive gin made out of peas**: The world's first "climate positive" gin has been created by UK scientists – using the humble garden pea. Five years of research at Abertay University and the James Hutton Institute in Scotland, in collaboration with Arbikie Distillery, has culminated in the release of new gin, Nàdar. [Read more...](#)
- **TRUE Interview with StartUp Hülsenreich**: During the 2nd continental Legume Innovation and Networking (LIN) workshop in Budapest we interviewed Emilie Wegner and Simon Vogt from the Start Up Hülsenreich about their perspective on legumes. [Read more...](#)
- **Report of the Legume Innovation Network workshop in Croatia**: Legume Innovation workshop for stakeholders in Croatia [Read more...](#)

Documentation material like presentations and abstracts of the **Legume Innovation and Networking (LIN) Workshops** can be found [here](#).

**Stakeholder Survey**: If you are unable to participate in any of the LIN-Workshops you are invited to answer two key questions on the TRUE website. [Fill in ...](#)


**Social media**: For an interactive exchange and first hand news, updates and information you should follow us on [Facebook](#), [Twitter](#) (@TrueLegumes) and on [ResearchGate](#).








## Upcoming project events:




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**3<sup>rd</sup> Mediterranean Legume Innovation Network (LIN) workshop**  
**“How to create value using agroecology  
and local markets in uncertain times?”**





Thursday 1<sup>st</sup> October 2020, 9:30 – 12:30h (GMT+2/CEST)  
online video conference





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- 3<sup>rd</sup> TRUE **LIN Workshop** for the *Mediterranean* region will be held online on October 1<sup>st</sup> 2020. See the invitation and Programme [here](#). Register until Sept. 22<sup>nd</sup> [here](#). [Read more ...](#)
- 3<sup>rd</sup> TRUE **LIN Workshop** for the *Atlantic* region will be in early spring 2021 online (or in Ireland, if COVID19 allows).
- **“European Legumes in Transition”** - Get involved in our open conference jointly organised with the LEGVALUE-project in April 2021 in Brussels. [Read more ....](#)

## Related information about legume based research and value chains

### Legume-related forthcoming events include:

- **Webinar: [Legumes – from farm to food and feed](#)**: 23 October 2020 online, 10:00 AM - 12:00 PM GMT Time
- **[Intercropping for Sustainability Conference](#)**: 20-21 January 2021 in Brussels or online (or both, depending on COVID19)
- **[14th European Nitrogen Fixation Conference \(ENFC\)](#)**: postponed to 26-29 August 2021 in Naples, Italy
- **[8th International Legume Root Diseases \(ILRD\) workshop](#)**: postponed to Spring 2022 in Rennes, France





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### Legume-related information:

- DIVERSify mini-series Growing Beyond Monoculture is now available online: <http://plant-teams.eu/watch>
- Sign the “Yes Peas!” [pea-tition](#) to get a #peamoji!
- **Paper:** [Adaptation of Grass Pea \(Lathyrus sativus\) to Mediterranean Environments](#)
- **Review Paper:** [Physiological and Biochemical Basis of Faba Bean Breeding for Drought Adaptation—A Review](#)
- **News:** [Arbikie developed World’s first earth positive gin and vodka](#)
- **Article:** [What can Ireland learn from other countries as it transitions agriculture towards carbon neutrality?](#)
- **Article:** [Comparison of Faba Bean Protein Ingredients Produced Using Dry Fractionation and Isoelectric Precipitation: Techno-Functional, Nutritional and Environmental Performance](#)
- **TRUE member “Herdade do Freixo do Meio” on TV:** <https://sic.pt/Programas/e-pra-amanha/episodios/2020-05-17-E-Pra-Amanha---Episodio-1---A-alimentacao> (ca. min 37:50 - 40:50)
- **TWITTER:** For all of you, who are not using Twitter (yet): Please have a look at some of TRUEs latest tweets and retweets from related people and projects, that might be interesting for you:
  - <https://twitter.com/JamesHuttonInst/status/1294234937986617344>
  - <https://twitter.com/TrueLegumes/status/1295646095389995009>
  - <https://twitter.com/martawilton/status/1280511017383051264>
  - <https://twitter.com/AgroEcoAtJHI/status/1278981997965254656>
  - <https://twitter.com/TrueLegumes/status/1275794768472215553>
  - <https://twitter.com/watsonnews/status/827507437800452097>
  - <https://twitter.com/martawilton/status/1268535171353116673>
  - <https://twitter.com/AgroEcoAtJHI/status/1270381839946067969>
  - <https://twitter.com/mauschoe/status/1266768855315238912>
  - <https://twitter.com/PlantTeams/status/1266374774831247361>
  - <https://twitter.com/LIVESEEDeu/status/1263726540124291074>
  - <https://twitter.com/LegumeHubEU/status/1258355293207093248>
  - [https://twitter.com/Nico\\_orniCar/status/1252499548045443075](https://twitter.com/Nico_orniCar/status/1252499548045443075)
  - <https://twitter.com/TrueLegumes/status/1252530680539553792>





- *On behalf of all the project partners, we extend a sincere ‘Thank You’ for your interest in TRUE, and we look forward to hearing from you either comments or contributions to our activities or on your own efforts in legume related science and technology.*

*Best wishes,*

*Henrik Maaß and the TRUE Communication Team*



**TRUE members at the 4<sup>th</sup> TRUE General Assembly online, June 2020. (Photo: TRUE project)**

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You receive this message as a subscriber of the newsletter through the TRUE website, or as TRUE member, or as a 3rd party supporter, or as a registered participant of a Legume Innovation and Networking Workshop, or as a potential Stakeholder relevant of the legume value chain. However, if you do not want to receive further messages, please follow the instructions below. If you received this newsletter indirectly or saw it on the website, you can [subscribe here](#) to receive it in future every six months.

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