

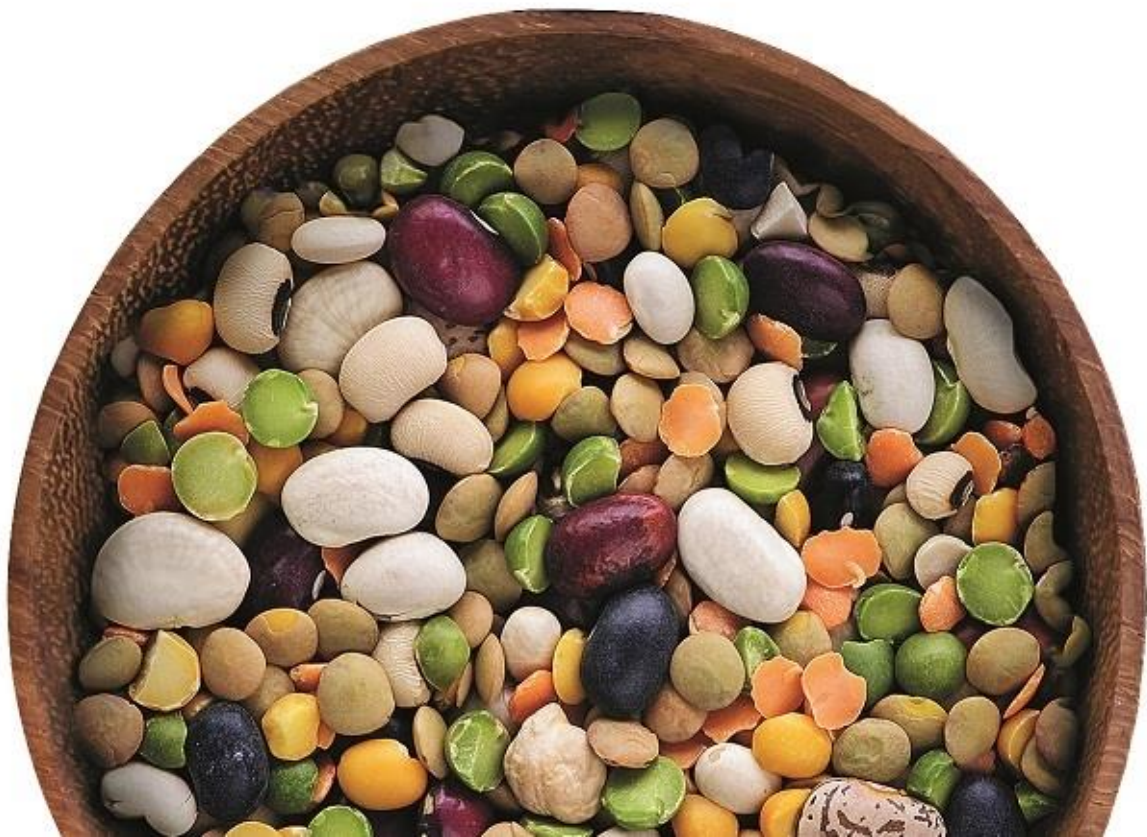


TRansition paths to sUustainable
legume-based systems in Europe

TRUE Deliverable 1.6 (D6), Report, Public Scientific, Practice and Policy Publications, Year 3

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Deliverable Description & Contributors

- **Due date:** 31st March 2020
- **Actual submission date:** 31st March 2020
- **Project start date:** 1st April 2017
- **Duration:** 48 months
- **Work package:** Knowledge Exchange and Communication (WP1)
- **Work package leader:** Alicia Kolmans (UHOH)
- **Deliverable Title:** Scientific, practice and policy publications, Year 3
- **Nature of deliverable:** Report
- **Dissemination level:** PU, Public
- **Deliverable description:** Annually, data and key outputs/deliverables are gathered by WP1 and synthesised into practical briefing media such as notes for stakeholders, to inform members of the public of new insight and products via press releases, including trade press. These will be circulated in a range of languages of the Regional Clusters and will also be aimed to policymakers at regional, national and EU level.
- **Lead partners contributing from each beneficiary:**
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 - Becky Howard, Roger Vickers (PGRO, UK)
 - Claudia Nathansohn, Ursula Hudson (SF, DE)
 - David O'Dee, Emmanuel Makatiani (KEFRI, KE)
 - David Styles, Marcela Porto Costa (BU, UK)
 - Eleonora Barilli (SOL, ES)
 - Elisete Varandas, Beatriz Oliveira (EUR, PT)
 - Francis Rayns, Judith Conroy, Barbara Smith (CU, UK)
 - Georgia Ntatsi, Vasiliki Vougeleka, Dimitrios Savvas (AUA, GR)
 - James Humphreys, Dan Clavin, Iris Nonhebel (TEAG, IE)
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 - Luiza Toma, Robert Rees, Shailesh Shrestha (SRUC, UK)
 - Magdalena Trstenjak, Nikola Blažon (PIRED, HR)
 - Marko Debeljak, Aneta Trajanov, Tanja Dergan (JSI, SI)
 - Marta W. Vasconcelos, Carla Santos, Elisabete Pinto (UCP, PT)
 - Martha Walter, Nora Löhrich (IGV, DE)
 - Michael Williams, Sophie Saget (TCD, IE)
 - Monika Weiss, Sinem Zeytin, Matthew Slater (AWI, DE)
 - Ricardo Silva, Alfredo Sendim (FDM, PT)
 - Fanny Tran, Damian Bienkowski, Pietro Iannetta (JHI, UK)
- **Key Words**
 - Knowledge Exchange; Communication; Dissemination; Deliverable; Impact.





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Summary

The third year of knowledge exchange and communication activities from the TRUE-project has produced numerous and varied outputs. The resources generated include many practice-based articles, notes in media targeted to the general public and other non-scientific articles targeted the trade- and press. Scientific outputs included presentations (many of which were invited), conference abstracts and posters, and articles in peer-reviewed scientific journals. Outputs also extended to press releases, blog-posts, newsletters and other social-media contributions (e.g. Facebook, Twitter and Vimeo). Impactful regional outreach was also provided using TRUE's third year of European Legume Innovation Network (ELIN) workshops.

This report therefore provides details of the following: 13 peer-reviewed manuscripts; three other non-peer-reviewed scientific publications; 102 oral presentations; 18 poster presentations; 12 TRUE blog posts; 14 press releases; 13 publicly available Deliverables; resources used for and generated by three ELIN workshops (in Nyborg Denmark, Porto Portugal and Ljubljana Slovenia) plus an additional Croatian LIN workshop.

High-level consultancies were also provided by many TRUE partners to a wide range of companies from across the world and whose sizes range from micro-SMEs to large multi-national companies. Their common aim was to market a wide diversity of legume-based or -focused products across all the supply chain sectors. These consultancies are not listed here for reasons of commercial sensitivity, but we can confirm there were more than 14 such activities. In addition, a trademark CoolBeans® was formally registered to promote legume-based products.

Many of the contributions listed here are furnished with internet links. Otherwise, the resources may be provided on request by email to the lead author/TRUE-partner.

For more information about our publications see also the TRUE community on Open Access depository Zenodo: zenodo.org/communities/true_legumes



Lists of communication and knowledge exchange activities

The following tables present (by category) the broad diversity of knowledge exchange, communication and outreach activities of the TRUE-project which were undertaken by its partners during its second year. Wherever possible, a web-link to the original material or source is provided.

Scientific peer-reviewed publications

Table 1. A list of scientific peer-reviewed publications during the 3rd project year which have been either already ‘published’ (in which case a link is provided), ‘in press’ (a link will be provided shortly) or, are ‘submitted’ and currently subject to peer-review. Lead partner named first.

Date	Title	Authors	Partner	Link
19-04-24	Lysine Supply Is a Critical Factor in Achieving Sustainable Global Protein Economy	Leinonen, I., Iannetta, P.P.M., Rees, R.M., Russell, W., Watson, C., Barnes, A.P.	SRUC, JHI	link
19-06-14	Transitions to greater legume inclusion in cropland: Defining opportunities and estimating benefits for the nitrogen economy	Squire, G.R., Quesada, N., Begg, G.S., Iannetta, P.P.M.	JHI	link
19-08	Data for life cycle assessment of legume biorefining for alcohol.	Lienhardt, T., Black, K., Saget, S., Porto Costa, M., Chadwick, D., Rees, R.M., Williams, M., Spillane, C., Iannetta, P.P.M., Walker, G. Styles, D.	BU, TCD, JHI, SRUC	link
19-08-08	Whole-Systems Analysis of Environmental and Economic Sustainability in Arable Cropping Systems: A Case Study	Hawes, C., Young, M., Banks, G., Begg, G., Christie, A., Iannetta, P.P.M., Karley, A., Squire, G. R.	JHI	link
19-09	Just the tonic! Legume biorefining for alcohol has the potential to reduce Europe's protein deficit and mitigate climate change	Lienhardt, T., Costa, M., Rees, R., Williams, M., Spillane, C., Black, K., Iannetta, P.P.M., Saget, S., Chadwick, D., Walker, G., Styles, D.	BU, TCD, JHI, SRUC	link
19-10-01	The role of legume grains in meat-reduced dishes (regardless of labels)	Vasconcelos M. W., Gomes A.M., Pinto E., Ferreira H., Vieira E.D.F., Pimenta A.S., Santos C., Balázs B., Kelemen E., Hamann K.T., Williams M., Iannetta P.P.M.	UCP, ESSRG, IFAU, TCD, JHI	Submitted
19-10-31	The functional characterisation of soybean (<i>Glycine max</i> L.) rhizospheric bacteria indigenous to Ethiopian soils	Maluk, M., James, E. K., Iannetta, P. P. M.	JHI	link



Date	Title	Authors	Partner	Link
19-11-13	Variation in Pea (<i>Pisum sativum</i> L.) Seed Quality Traits Defined by Physicochemical Functional Properties	Santos, C.S., Carbas, B., Castanho, A., Marta W. Vasconcelos, M.W., Patto, M.C.V., Domoney, C., and Brites, C.	UCP	link
20-01-23	Lupin kernel meal as fish meal replacement in formulated feeds for the Whiteleg Shrimp (<i>Litopenaeus vannamei</i>)	Wei, M.; Rebelein, A. and Slater, M. J.	AWI	link
20-01-25	Benefits of pulse consumption on metabolism and health: A systematic review of randomized controlled trials	Ferreira, H., Vasconcelos M.W., Gil, A.M. and Pinto, E.	UCP	link
20-01-28	The push-, pull- and enabling – capacities necessary for legume grain inclusion into sustainable agri-food systems and healthy diets	Vasconcelos, M., Gomes A., Pinto, E., Ferreira, H., Vieira, E., Pimenta, A., Santos, C.S., Balazs, B., Kelemen, E., Hamann, K., Williams, M., Iannetta, P.P.M.	UCP, ESSRG, IFAU, TCD, JHI	Submitted to World Review in Nutrition and Dietetics
20-02-11	Representing crop rotations in life cycle assessment: a review of legume LCA studies	Costa, M.P., Chadwick, D., Saget, S., Rees, R.M., Williams, M. and Styles, D.	BU, SRUC, TCD	Submitted to International Journal of LCA
20-02-26	Editorial: Transitions to Sustainable Food and Feed Systems	Vasconcelos M.W., Balazs B., Kelemen, E., Squire, G.R., Iannetta, P.P.M.	UCP, ESSRG, JHI	link



Scientific publications

Table 2. Other (non-peer-reviewed) scientific publications during the 3rd project year.

Date	Title	Authors	Partner	Link
19-06-19	Immunologischer Einfluss des Einsatzes von Faberbohne (<i>Vicia faba</i>) und blauer Lupine (<i>Lupinus angustifolius</i>) als alternative, pflanzliche Proteinquellen in der Ernährung von post-smolt, atlantischem Lachs (<i>Salmo salar</i>)	Pioch, D. (B.Sc.-Thesis)	AWI	
20-01-13	The practice of intercropping and agroforestry - benefits and challenges from African perspectives (abstract)	Odee, D., Makatiani, E., Otieno, J.O., Esitubi, M., Kinyanjui, M., Magare, C.O.	KEFRI	link
2020	Factors determining the spatial distribution of grain legume cultivation in the EU	Oré Barrios, C., Mäurer, E., Lippert, C.	UHOH	In press





Oral presentations

Table 3. Oral presentations by TRUE partners during the 3rd project year.

Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-04-12	Presentation of lentil projects	Annual general assembly of the Alblinsen-Förderverein (Association for the promotion of lentil and other crops at Swabian Alb region)	Gruber, S.; Kroeper, A.	UHOH		Practice
19-04-23	Presentation to AHDB (UKs Agriculture Horticulture Development Board)	Agri-systems at the James Hutton Institute	Karley et al.,	JHI	<i>pdf available on request</i>	Scientific, Practice, Policy
19-04-24	The importance and role of including legumes in new product development	Biotalks, Porto, Portugal	Carla Santos	UCP		Scientific
19-05-07	Environmental efficiency of human nutrition from chickpea pasta versus durum wheat pasta	2 nd Atlantic Legume Innovation Network (LIN) Workshop, Nyborg, DK	Saget, S., Costa, M., Williams, M.	TCD, BU		Scientific
19-05-07_08	Enabling legume processing: role of the TRUE project	2 nd Atlantic Legume Innovation Network (LIN) Workshop, Nyborg, DK	Iannetta, P.P.M. et al.,	JHI	link	Scientific, Practice, Policy
19-05-19	Création de bénéfiques pour les agriculteurs et les consommateurs avec l'agroforesterie	Congrès Mondial d'Agroforesterie, France	Sendim, A.	FDM		Scientific and Policy
19-05-20	Motivações e Barreiras para o Consumo de Leguminosas em Portugal	XXVIII Congresso de Nutrição e Alimentação. Porto, Portugal. maio, 2019.	Duarte M, Vasconcelos M, Pinto E	UCP		Scientific
19-05-21	The industrialisation of agri-food systems, and the demise of home-grown legumes in Europe	Third International Legume Society Conference ILS 3 2019, Poznan, Poland	P.P.M. Iannetta, B. Balázs, G. Begg, M. Debeljak, K.T. Hamann, B. Howard, E. Kelemen, A. Kolmans, H. Maaß, G. Ntatsi, N. Quesada Pizarro, F. Tran, A. Trajanov, D. Savvas, S. Shrestha, D. Styles, L. Toma,	JHI, ESSRG, JSI, IFAU, PGRO, UHOH, AUA,	<i>pdf available on request</i>	Scientific, Practice, Policy





Date	Title	Event	Speaker and contributors	Partner	Link	Category
			M.W. Vasconcelos, R. Vickers, M. Williams and G.R. Squire	SRUC, BU, UCP		
19-05-28	Integrated pest management discussion with farmers	Farm meeting - IPM	Becky Howard	PGRO		Practice
19-05-29	Legume R and D and supply chain meeting and discussion	PGRO/ NIAB Legumes Group meeting	Roger Vickers	PGRO		Practice
19-06	Internship - Anya Geiger	Internship at Ryton Gardens		CU		Scientific and Practice
19-06	Field Open Day – crop management practice and R and D demonstration	Peterborough	Becky Howard/ Roger Vickers	PGRO		Practice
19-06-04	Re-diversifying agri-food systems in Europe: legumes as agents of change	LegValue General Assembly	Iannetta, P.P.M. et al.,	JHI	<i>pdf available on request</i>	Scientific, Practice, Policy
19-06-05	Isolation and characterisation of soil bacteria from a semi-arid region for their use in novel bio-fertilisers	SEFARI (Scottish Environment Food and Agriculture Research Institutes) Show Case, Birnam, Scotland UK	Ferrando Molina, F., Maluk, M., Iannetta, P.P.M. et al.,	JHI	<i>pdf available on request</i>	Scientific and Practice
19-06-11	Isolation and characterisation of soil bacteria from a semi-arid region for their use in novel bio-fertilisers	Post-graduate Student Competition, Aberdeen University ,Scotland UK	Ferrando Molina, F., Maluk, M., Iannetta, P.P.M. et al.,	JHI	<i>pdf available on request</i>	Scientific and Practice
19-06-16/20	Legume biofertilizers for hydroponic crops in greenhouses grown under nitrogen or water stress conditions	Greensys 2019 - International Symposium on Advanced Technologies and Management for Innovative Greenhouses, Angers, France	G. Ntatsi, I. Karavidas, V. Vougeleka, C. Saitanis, A. Tampakaki, D. Savvas	AUA	link	Scientific
19-06-17_19	Re-diversifying agri-food systems in Europe: legumes as agents of change?	ALTER-Net and EKLIPSE Conference on, 'The EU Biodiversity Strategy beyond 2020: Research insights and needs	Iannetta, P.P.M., Begg, G., Hawes, C., Karley, K., Squire, G..	JHI	link	Scientific, Practice, Policy





Date	Title	Event	Speaker and contributors	Partner	Link	Category
		for biodiversity and ecosystem services in Europe'				
19-06-18	Student training	Edinburgh University		CU		Scientific and Practice
19-06-20	Demonstration of integrated pest management in legumes – open day	Morley NIAB Open Day - IPM	Becky Howard, Roger Vickers	PGRO		Practice
19-06-23	Episode 12: Francis Rayns and CAWR research on the field	5 Acre Farm podcast		CU	link	Scientific and Practice
19-06-25	Discussion about R and D developments and project update	PGRO Industry meeting - EU projects and PhD's	Becky Howard, Roger Vickers	PGRO		Practice
19-06-25/27	What's on the menu? Integrating nutrition to the environmental comparison of chickpea pasta versus durum wheat pasta	IPSAM conference, Ireland	Saget, S.	TCD		Scientific
19-07-01	MSc course lecture	Harper Adams University, Newport, UK)	Banfield-Zanin, J.A.	STC		Scientific and Practice
19-07-03	Novel legumes: lentils & 'Scottish Bean'	Arable Scotland	Iannetta, P.P.M., Maluk. M., Boath, A.	JHI	link	Scientific and Practice
19-07-08		BioHorizon - H2020 Brokerage Event	Gábor Bertényi, Botond Bogнар	AK		Scientific, Practice, Policy
19-07-17	Driffield Show - Pulse production – farmer discussion	Driffield Show - Pulse production	Becky Howard	PGRO		Practice
19-07-18	Tour of CAWR site incl. TRUE trials for All CAWR staff meeting	All CAWR meeting, Coventry		CU		Scientific, Practice, Policy
19-07-22	Just 15' Presentation to Garden Organic Staff	Garden Organic	Francis Rayns, Barbara Smith, Judith Conroy	CU		Scientific and Practice
19-07-31	Editorial of Session 1 & 5: Legume Value Chain: market requirements and economic impact.	Third International Legume Society Conference: Legumes for a Sustainable World	Iannetta, P.P.M., Muel, F., Charlton, A., Eduardo Rosa, E.	JHI	link	Scientific, Practice, Policy





Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-08-01	Integrated pest management discussion with farmers	Farm meeting - IPM	Becky Howard	PGRO		Practice
19-08-20	Presentation of and public discussion about lentil cultivation and use	German Federal Garden Exhibition; Heilbronn	Gruber, S., Zikeli, S.	UHOH		Practice and Policy
19-08-20	Sustainable practice discussion	Organic Research Centre meeting	Roger Vickers	PGRO		Practice
19-08-28	Crop production discussion	Farmer meeting re crop production Leamington Spa	Becky Howard	PGRO		Practice
19-08-9	Sustainable Food Production. How can we account for Health and Nutrition in sustainability assessments of food production pathways	Climate-Kic, TCD, Dublin	Williams, M	TCD		Scientific
19-09-02	Diversification: Scottish socio-economy as a case-study	Diver Beans Project Workshop, to a North Macedonian Organic Farmers Network. In collaboration with ATH-Zurich (Switzerland)	Iannetta, P.P.M.	JHI	link	Scientific and Practice
19-09-11	Umwelteinflüsse auf die Sojaproduktion in Deutschland (Environmental effects on soybean production in Germany)	Jahrestagung der Gesellschaft für Pflanzenbauwissenschaften, Berlin (German Crop Science Conference)	Sobko, L., Zikeli, S., Claupein, W., Gruber, S.	UHOH	link	Scientific
19-09-14	Tour of CAWR site incl. TRUE trials for MSc architecture students	Tour of CAWR site incl. TRUE trials for MSc architecture students		CU		Scientific and Practice
19-09-15	What we are doing on WP5 True Legumes Project	Climate Change Summer School (KIC), Budapest and Valencia	Marcela Costa and Sophie Saget	BU, TCD	-	Scientific





Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-09-17	Demonstration of TRUE Experiments to CU MSc students	CAWR	Anya Geiger	CU		Scientific and Practice
19-09-18	Presentation to Royal Horticultural Society's Fruit, Vegetable and Herb Committee	Royal Horticultural Society's Fruit, Vegetable and Herb Committee site visit	Banfield-Zanin, J.A.	STC		Scientific and Practice
19-09-18/21	Knowledge Exchange in 'Plant Team' Cropping with On-Farm Participatory Research	European Conference on Crop Diversification, Budapest Hungary	Alison J. Karley, Jennifer A. Banfield-Zanin, Charlotte Bickler, Katie Bliss, Rob W Brooker, Pietro PM Iannetta, Alice Midmer, Carolyn Mitchell, Adrian C Newton, Robin J Pakeman, Bruce Pearce, Laura Tippin, David R. George	JHI, STC	link	Scientific, Practice, Policy
19-09-18/21	The industrialisation of agri-food systems and the demise of home-grown legumes in Europe	European Conference on Crop Diversification, Budapest Hungary	P.P.M. Iannetta, B. Balázs, G. Begg, M. Debeljak, K.T. Hamann, B. Howard, E. Kelemen, A. Kolmans, H. Maaß, G. Ntatsi, N. Quesada, F. Tran, A. Trajanov, D. Savvas, S. Shrestha, D. Styles, L. Toma, M.W. Vasconcelos, R. Vickers, M. Williams and G.R. Squire	JHI, ESSRG, JSI, IFAU, PGRO, AUA, SRUC, UCP, TCD, BU	link	Scientific, Practice, Policy
19-09-18/21	Legumes & art	Art, Science and Visual Thinking - workshop. Dundee University	Iannetta, P.P.M	JHI		Scientific, Practice, Policy
19-09-19	The role of legume product development and consumption on transitioning towards a nutrition-friendly, sustainable diet	European Conference on Crop Diversification, Budapest Hungary	M.W. Vasconcelos, C. Santos, A. M. Gomes, E. Pinto, A. Pimenta, H. Ferreira, E.D.F. Vieira, E. Varandas, B. Oliveira, K. Black,	UCP, EUR, ADL, IGV, JHI	link	Scientific, Practice, Policy





Date	Title	Event	Speaker and contributors	Partner	Link	Category
			N. Löhrich, J. Petrusan, P.P.M. Iannetta			
19-09-19/20		European Conference on Crop Diversification, Budapest Hungary	Gábor Bertényi, Botond Bognar	AK		Scientific, Practice, Policy
19-09-24	Legume genetics R & D discussion	PCGIN meeting	Becky Howard, Steven Belcher	PGRO	link	Practice
19-09-26	Factors determining the spatial distribution of grain legume cultivation in the EU	59. Jahrestagung der Gesellschaft für Wirtschafts- und Sozialwissenschaften des Landbaus (GEWISOLA) e.V., Agriculture and rural areas in the course of societal change, 25.-27.09. 2019, Thünen-Institut, Braunschweig, Germany	Oré Barrios, C., Mäurer, E., Lippert, C.	UHOH		Scientific and Policy
19-09-30/10-03		UrbAct meeting in Coimbra	Gábor Bertényi	AK		Scientific, Practice, Policy
19-10-05/09	Presentation of a national lentil project	Food trade fair ANUGA, Cologne, Germany	Zikeli, S., Gruber, S.	UHOH		Practice and Policy
19-10-09	Presentation to Department for International Trade delegation	Department for International Trade visit to STC	Banfield-Zanin, J.A., Branfield, L., Ormerod, A.	STC		Practice and Policy
19-10-10	Leguminosen. Hülsenfrüchte als Teil einer gesunden Ernährung und nachhaltigen Landwirtschaft	"VHS Unteres Remstal" lecture, Fellbach, Germany	Maaß, H.	UHOH		Practice
19-10-11	Presentation to Sustainable Foods Conference at American University of Rome	Sustainable Foods - American University of Rome	Williams, M., Saget, S	TCD		Scientific, Practice, Policy
19-10-15/18	Effect of grafting on yield and biological nitrogen fixation of Greek landraces of common bean	29th Conference of the Greek Society of The Science of Crop Production, Patras, Greece	V. Vougeleka, G. Ntatsi, F. Mylona, A. Tampakaki, C.J. Saitanis, D. Savvas	AUA	link	Scientific





Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-10-15/18	Study of nitrogen availability in organic and conventional common bean cultivation system of an annual legume and non-legume programme in the Mediterranean era	29th Conference of the Greek Society of The Science of Crop Production, Patras, Greece	J. Karavidas, G. Ntatsi, T. Danasi, D. Karabetsos, D. Yfantopoulos, A. Tampakaki, D. Savvas	AUA	link	Scientific
19-10-15/18	Genetic variability and characterization of nitrogen-fixing bacteria from nodules of different varieties of common bean	29th Conference of the Greek Society of The Science of Crop Production, Patras, Greece	E. Eustathiadou, G. Ntatsi, D. Savvas, A. Tampakaki	AUA	link	Scientific
19-10-29	Industry Talk: Organic Cereal Update - role of red clover	Organic Cereal Update and role of red clover in the crop rotation	Dan Clavin	TEAG	link	Scientific and Practice
19-11-03	Adding values: a central role for legumes	Friends of Dundee Botanic Gardens	Iannetta, P.P.M	JHI	link	Scientific, Practice, Policy
19-11-03	AHDB workshop Pea and Bean Agronomy – crop production discussion and presentation	AHDB workshop Pea and Bean Agronomy	Becky Howard	PGRO	link	Practice
19-11-04	Crop production discussion and project update	Legume Panel Industry meeting	Becky Howard, Roger Vickers	PGRO		Practice
19-11-05	Integrated pest management in peas – presentations and discussion	Vining Pea Conference	Becky Howard, Roger Vickers	PGRO	link	Practice
19-11-06	How are sustainable diets driving new strategies to produce and promote nutritious foods?	ISPUP conferences, Porto, Portugal	Marta Vasconcelos	UCP		Scientific and Policy
19-11-07	Biorefining legumes: a life cycle assessment of peas (<i>Pisum sativum</i> L.) distilled for neutral spirit and high-protein co-products.	Hutton Annual Research Symposium, West Park Centre Dundee	Iannetta, P.P.M	JHI	<i>pdf available on request</i>	Scientific, Practice, Policy
19-11-07	Legumes in diet change	BSc seminar	Dave Styles	BU		Scientific
19-11-08	Crop production discussion and project update	Pulse Panel Industry meeting	Becky Howard, Roger Vickers, Jim Scrimshaw, Lea Herold	PGRO		Practice





Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-11-10	The role of legumes in current diets	Sustainable Food Systems < > Sustainable Diets Conference, Rome, Italy	Marta W. Vasconcelos	UCP		Scientific and Policy
19-11-14	Legume-focused research within the Agroecology Sub-group of The James Hutton Institute	Pulse Crop Genetic Improvement Network - Pulses UK (joint meeting)	Iannetta, P.P.M	JHI	link	Scientific, Practice, Policy
19-11-14	Presentations of R and D updates and related projects	PCGIN stakeholder meeting	Roger Vickers	PGRO		Practice
19-11-15	Crop production and supply chain presentations and discussion	Bean Yield Enhancement Network Stakeholder meeting	Becky Howard, Roger Vickers	PGRO		Practice
19-11-19	R and D update	Velcourt R and D update	Becky Howard	PGRO		Practice
19-11-21	Integrated Crop Management in peas	Stemgold Peas - Integrated Crop Management in peas	Becky Howard, Lea Herold	PGRO		Practice
19-11-25	Presentation of TRUE project data to undergraduate students	Lecture Course: Sustainable Production: Food, Drink and Drugs	Williams, M., Saget, S	TCD		Scientific
19-11-27	I. Hungarian Agroecology Conference	Organized by Institute français de Budapest, Védegylet, ESSRG, Ökopolisz Foundation, Dynaversity Project	Gábor Bertényi, Botond Bognar	AK		Scientific, Practice, Policy
19-11-28	Leguminosen. Europäische Perspektive von Anbau bis Konsum	Meeting of UFOP protein section, Berlin (via goto meeting)	Maaß, H.	UHOH		Scientific, Practice, Policy
19-12-04	European Legume Innovation and Networking (LIN) Workshops	Lecture on Transdisciplinarity, Andrea Knierim, University of Hohenheim, Stuttgart	Maaß, H.	UHOH		Scientific





Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-12-10/14	Can heritage legume varieties provide enhanced human and beneficial insect nutrition	British Ecological Society meeting, London	Barbara Smith	CU		Scientific, Practice, Policy
19-12-11	UrbAct presentation	UrbAct presentation	Gábor Bertényi	AK		Scientific, Practice, Policy
19-12-16	Food systems security, diversity and health.	Hutton Sustainability Awayday (West Park Conference Centre Dundee)	Iannetta, P.P.M	JHI	<i>pdf available on request</i>	Scientific, Practice, Policy
20-01-01	Impacto do CO2 elevado e da restrição de ferro na nutrição de soja (<i>Glycine max L.</i>) e feijão (<i>Phaseolus vulgaris L.</i>).	MsC thesis	Fábio Nunes	UCP		Scientific
20-01-15	Einsatz von Lupinenmehl in der Aquakultur	Society for Lupin Advancement (GFL) Annual Conference, Teltow, Germany	Slater, M.J., Fricke, E.	AWI		Scientific and Practice
20-01-20	Food nutri-footprints	MSc lecture	Dave Styles	BU		Scientific
20-01-20/23		UrbAct meeting in Bassa Romagna, Italy	Gábor Bertényi, Botond Bognar	AK		Scientific, Practice, Policy
20-01-21	Integrated pest management presentation and discussion	Hutchinsons Agronomy meeting - IPM	Becky Howard	PGRO		Practice
20-01-29	Integrated pest management presentation and discussion	PGRO/ Syngenta Road Show IPM	Becky Howard, Roger Vickers	PGRO	link	Practice
20-01-30	Integrated pest management presentation and discussion	PGRO/ Syngenta Road Show IPM	Becky Howard, Roger Vickers	PGRO	link	Practice
20-01-31	LeguCON	Gulbenkian Ciência, Lisbon, Portugal	Carla Santos, Marta Vasconcelos, Elisabete Pinto	UCP		Scientific
20-02-03	Presentation of TRUE project data to postgraduate students	MSc Developmental Practise Course	Williams, M., Saget, S	TCD		Scientific
20-02-06	Presentation to and site visit by N8 AgriFood group; discussion of legume living mulch	N8 AgriFood Collaboration Day	Banfield-Zanin, J.A.	STC		Scientific, Practice, Policy





Date	Title	Event	Speaker and contributors	Partner	Link	Category
	trials conducted at STC and the role of legumes in sustainable agricultural production					
20-02-11	From pulses to food innovation - 10 example business cases of how food companies have adapted to the plant-based agenda	14th European Forum on System Dynamics and Innovation in Food Networks, Germany	Hamann K., Tran F., Iannetta P., Duarte M., Pinto E., Vasconcelos M., Williams M., Szrumi O., Kraul A., Gabor B., Lehrack U.	IFAU, JHI, UCP, TCD, AK, IGV		Scientific
20-02-11	Crop production presentation and discussion	Pea Agronomy meeting	Becky Howard, Jim Scrimshaw	PGRO		Practice
20-02-23/28	The practice of intercropping and agroforestry - benefits and challenges from African perspectives	World Biodiversity Forum, Davos	D. Odee, E. Makatiani, J.O. Otieno, M. Esitubi, M. Kinyanjui, C.O. Magare	KEFRI		Scientific, Practice, Policy
20-02-25	Crop Species Mixtures as part of Integrated Farm Management	Proceedings Crop Protection in Northern Britain 2020	Karley, A., Iannetta, P.P.M	JHI	link	Scientific, Practice, Policy
20-02-26	Crop production discussion and project update	Pulse Panel Industry meeting	Becky Howard, Roger Vickers, Jim Scrimshaw, Lea Herold	PGRO		Practice
20-03-01	Bohne, Erbse & Co: Die Rolle der Leguminosen in einem künftig nachhaltigen Ernährungssystem	Genbänke Samenmarkt, Botanischer Garten, Tübingen / "Genbänke" Seeds market, Botanical Garden, Tübingen	Maaß, H.	UHOH		Practice



Poster presentations

Table 4. A list of poster presentations made by TRUE partners at various meetings during the 3rd project year.

Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-04-18/20	Diverse bacteria isolated from root nodules of common bean grown in different ecoregions of Greece	9th MicroBioKosmos Conference, Rio, Patras, Greece	Efstathiadou E., Savvas D., Tampakaki A.P.	AUA	link	Scientific
19-05	Poster "XVII Congresso de Nutrição e Alimentação"	"XVII Congresso de Nutrição e Alimentação" Lisboa, Portugal	Oliveira, B. and Varandas, E.	EUR		Scientific
19-05-19	Avaliação da satisfação de um grupo de indivíduos omnívoros relativamente a ementas vegetarianas contendo leguminosas	XXVIII Congresso de Nutrição e Alimentação. Porto, Portugal. maio, 2019.	Ferreira H, Vasconcelos MW, Gil AM, Oliveira B, Varandas E, Vilela E, Say K, Pinto E.	UCP		Scientific
19-05-19	Será que a inclusão de uma refeição vegetariana à base de leguminosas uma vez por dia se repercute na ingestão alimentar do resto do dia?	XXVIII Congresso de Nutrição e Alimentação. Porto, Portugal. maio, 2019.	Ferreira H, Vasconcelos MW, Gil AM, Pinto E.	UCP		Scientific
19-05-21/24	Paradox and puzzle: sustainable legume-based agri-food systems in Europe	Third International Legume Society Conference ILS 3 2019, Poznan, Poland	P.P.M. Iannetta, A. Kolmans, A. Trajanov, B. Balázs, B. Howard, D. Savvas, D. Styles, E. Kelemen, F. Tran, G. Ntatsi, G.R. Squire, H. Maaß, K.T. Hamann, L. Toma, M. Debeljak, M. Williams, M.W. Vasconcelos, R. Vickers and S. Shrestha	JHI	link	Scientific
19-05-21/24	Impact of the preceding cultivation during the winter or no cultivation on fresh pod yield and soil-N availability in an organic bean crop grown in open field	Third International Legume Society Conference ILS 3 2019, Poznan, Poland	D. Savvas, I. Karavidas, G. Ntatsi, T. Ntanasi, D. Karampetsos, D. Yfantopoulos, P.P.M Iannetta	AUA	link	Scientific





Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-05-21/24	Biorefining legumes: a life cycle assessment of peas (<i>Pisum sativum</i> L.) distilled for neutral spirit and high-protein co-products	Third International Legume Society Conference ILS 3 2019, Poznan, Poland	Theophile Leinhardt, Kirsty Black, Sophie Saget, Marcela Porto Costa, David Chadwick, Robert Rees, Michael Williams, Charles Spillane, Pietro P.M. Iannetta, Graeme Walker, David Styles	JHI	<i>pdf available on request</i>	Scientific and Practice
19-05-21/24	Rhizobium genotypes associated with high levels of biological nitrogen fixation by grain legumes in the British Isles with particular emphasis on a long-term field trial in the east of Scotland.	Third International Legume Society Conference ILS 3 2019, Poznan, Poland	Marta Maluk, Laura Lopez del Egado, Francesc Ferrando Molina, Marcel Lafos, Genet Gebre Yohannes, Mark W. Young, Peter Martin, Richard Gantlett, Greg Kenicer, Cathy Hawes, Graham S. Begg, Richard Quilliam, Geoff R. Squire, J. Peter W. Young, Pietro P.M. Iannetta, Euan K. James	JHI	<i>pdf available on request</i>	Scientific and Practice
19-07-07/11	Characterization of strains isolated from root nodules of common bean in Greece	8th Congress of European Microbiologists, Federation of European Microbiological Societies, Glasgow, Scotland	Evdoxia Efstathiadou, Dimitrios Savvas, Anastasia Tampakaki	AUA	link	Scientific
19-09-01	Evaluating the environmental sustainability of legume-modified rotations	9th International Conference on Life Cycle Management (LCM) , Poznan , Poland	Marcela P. Costa, Moritz Reckling, Peter Zander, Vera Eory, Michael Williams, Robert M. Rees, Dave Chadwick, David Styles	BU, TCD, SRUC		Scientific
19-09-1/4	Comparing the environmental footprint of nutrition achieved with consumption of chickpea pasta or durum wheat pasta using the Nutrient Density Unit	9th International Conference on Life Cycle Management (LCM) , Poznan , Poland	Saget, S.	TCD		Scientific





Date	Title	Event	Speaker and contributors	Partner	Link	Category
19-09-14		9th International Conference on Life Cycle Management (LCM) , Poznan , Poland	Costa, M.P.; Reckling, M; Zander, P; Eloy, V; Williams, M; Rees, R, M; Chadwich, D; Styles, D	BU, TCD, SRUC	link	Scientific, Practice, Policy
19-09-18/21	The potential role of 'elite rhizobia' to improve legume-inclusion in agri-food systems: a model approach using peas (<i>Pisum sativum</i> L.) and faba bean (<i>Vicia faba</i> L.).	European Conference on Crop Diversification, Budapest Hungary	M. Maluk, L. Lopez del Egado, F. Ferrando Molina, M. Lafos, G. Gebre Yohannes, M.W. Young, P. Martin, R. Gantlett, G. Kenicer, C. Hawes, G.S. Begg, R. Quilliam, Geoff R. Squire, J.P.W. Young, P.P.M. Iannetta, E.K. James	JHI	link	Scientific, Practice, Policy
19-09-18/21	Evidencing the utility of food- and feed-chain diversification: a life cycle assessment of pulse grain (pea, <i>Pisum sativum</i> L.) processing by distillation for neutral spirit and high-protein coproduct	European Conference on Crop Diversification, Budapest Hungary	Lienhardt, T., Costa, M., Rees, R., Williams, M., Spillane, C., Black, K., Iannetta, P., Saget, S., Chadwick, D., Walker, G., Styles, D.	JHI, TCD, BU, SRUC	link	Scientific, Practice, Policy
19-09-19/20		European Conference on Crop Diversification, Budapest Hungary	Gábor Bertényi, Botond Bogнар	AK		Scientific, Practice, Policy
19-10-10/15	Developing improved bio-fertilisers with an enhanced on-seed shelf-life	21st Interntional Congress on Nitrogen Fixation	Ferrando-Molina, F., Iannetta, P.P.M., James, E.K., Maluk, M., Newton, A., Quilliam,R.	JHI	link	Scientific
19-10-15/18	Impact of different rootstocks on growth and yield of common bean cultivated under saline conditions	29th Conference of the Greek Society of The Science of Crop Production, Patras, Greece	V. Vougeleka, G. Ntatsi, J. Panagiotakis, A. Tampakaki, C.J. Saitanis, D. Savvas	AUA	link	Scientific



Blog posts on the TRUE website

The blog posts of TRUE members include general project information, interviews, reports, case study descriptions and updates as well as work package updates. All blog posts published in Year 3 are listed below. The blog “Notes from the field” is available online at:

<https://www.true-project.eu/blog-notes-from-the-field/>

Table 5. Blog posts on the TRUE website, Year 3.

Date	Title	Category	Partner	Link
20-02-19	Climate positive gin made out of peas	Reports	JHI, ADL	link
20-02-10	<i>How Pea Gin Could Help Reduce Your Environmental Impact - TRUE</i>	Video	Students project	link
20-01-17	Interview with StartUp Hülsenreich	Interviews		link
20-01-14	Report of the LIN workshop in Croatia	Reports	REDEA	link
19-09-24	What a difference a year makes for living mulches	Case study reports	STC	link
19-08-02	Making aquafeeds more sustainable: Regional Legumes for Salmon Aquafeeds	Work Package Updates	AWI	link
19-07-08	Strength in numbers: TRUE joins the Crop Diversification Cluster	General Project Information	JHI	link
19-07-03	Lentil pancakes on the go	Work Package Updates	UCP	link
19-06-13	Grain legume cultivation in Mediterranean rain fed low-input farming systems	Case study reports	SOL	link
19-05-27	Insight to legume value chain sustainability – TRUE enlightenment through collaboration in Edinburgh	Work Package Updates	BU	link
19-05-22	Thinking outside the pot – a legume cookbook	General Project information	SF	link
19-05-20	Demonstration of pasta production with legumes	Work Package Updates	IGV	link
19-04-26	Different legumes – different nutritional quality	Work Package Updates	UCP	link



Press releases

Table 6. List of press releases made by TRUE partners, Year 3.

Date	Title	Authors, Contributors	Partner	Link
19-04-01	Bønner kan 1000 ting (press release for the ALIN in DK)	Hamann K. and Bramming P.	IFAU	
19-04-05	Workshop om udnyttelse af proteinafgrøder	Lambertsen L. and Hamann K.	IFAU	link
19-04-23	Du kan stadig nå det - deltag i workshoppen "Enabling legume processing - opportunities and barriers"	Nautrup E. and Hamann K.	IFAU	
19-04-25	Press Release - on 1st paper regarding lycine	Iannetta, P.P.M.	JHI	link
19-07-01	How your choice of afternoon tippie could help save the rainforest	Styles, D., Spillane, C., Iannetta, P.P.M., Williams, M., Leinhardt, T., Rees, R.M., Black, K., Saget, S., Costa, M.P., Chadwick, D.	BU, JHI, TCD, SRUC, ADL	link
19-07-10	How your choice of afternoon tippie could help save the rainforest	Styles, D.	BU	link
19-07-22	Pea gin: how your choice of afternoon tippie could help save the rainforest	Iannetta, P.P.M., Styles, D., Williams, M.	JHI	link
19-08-16	A new 'crop diversification cluster'	Vickers, R	PGRO	link
19-09	Peas are a greener choice for making gin	Styles, D., Spillane, C., Iannetta, P.P.M., Williams, M., Leinhardt, T., Rees, R.M., Black, K., Saget, S., Costa, M.P., Chadwick, D.	BU, JHI, TCD, SRUC, ADL	link
19-09-18-21	European Conference on Crop Diversification (Budapest)	Balázs B - Kelemen E	ESSRG	link
19-10-02	interview on the positive roles of legumes (Budapest)	Balázs B	ESSRG	link
19-10-11	Sustainable food vs sustainable diets conference (Rome)	Balázs B	ESSRG	link
19-10-20	Results of policy workshop at the European Conference on Crop Diversification published	Balázs B	ESSRG	link
20-02-19	Nadar gin commercial/press-launch	Leinhardt, T., Costa, M., Rees, R., Williams, M., Spillane, C., Black, K., Iannetta, P., Saget, S., Chadwick, D., Walker, G., Styles, D.	BU, JHI, TCD, SRUC, ADL	link
20-02-19	TRUE-Partner Arbikie Distilling Ltd launches world's first climate positive gin made from peas	Black, K. Stirling, J. Stirling, I	ADL	link





Newsletter

We send out a Newsletter irregularly to all subscribers and to stakeholders of the European legume value chains. At the moment there are 284 subscribers receiving the newsletter.

In Year 3 the edition No. 4 was published in November 2019 and translated into some languages:

- EN 4th Newsletter of the TRUE-project ([Download](#))
- DE 4. Infobrief des TRUE-Projekttes ([Download](#))
- GR 4th Δελτίου Τύπου του Προγράμματος TRUE ([Download](#))





Social media

The TRUE-project has a Facebook page and a Twitter account. In addition, photographs (and images) are collected and showcased *via* Flickr. Videos are uploaded on Vimeo, and there is a project page on ResearchGate. The social media accounts are managed and fed by UHOH regularly. Other project partners like JHI, CU, UCP, AK, ESSRG, PGRO, JSI, AWI, EUR, IGV, and AUA also use social media channels to communicate about TRUE (see also Annex 4).

Facebook

All Facebook activities of the Facebook account of the TRUE-project can be found on <https://www.facebook.com/TrueLegumes/>. There are currently 386 followers, and consortium members have uploaded many posts, and below we list only the posts of the last 4 months for reasons of brevity originally written by TRUE (without shared posts). The full list can be seen using the link provided in this paragraph.

Table 7. Examples of Facebook posts (past 4 months only).

Date	Post
20-03-30	#StayHealthyEveryone #eathealthy Eat more Legumes! How do #legumes contribute to your health? Our #H2020 project is working on legumes. For recent #openaccess research results and reports visit the TRUE community on Zenodo: https://zenodo.org/communities/true_legumes EU Agriculture: Food & Farming
20-03-30	Which are the benefits of introducing #legumes into #foodsystems? A leaflet about #LifeCycleAssessment of legumes and legume based products gives some answers. Download the Deliverable and the leaflet on https://www.true-project.eu/publications-reso.../publications/ EU Agriculture: Food & Farming #H2020 Lead author was David Styles from Bangor University International. Direkt link on Zenodo: https://zenodo.org/record/3699669#.XoGT03JCTIU
20-02-19	🕒🕒🕒 Call for papers open for ReMIX/Diversify Joint Conference organized by AAB. The deadline for the submission of papers is the 1st of June 2020. More on: https://bit.ly/39qejWT The conference, under the name "Intercropping for sustainability: Research developments and their application" will take place at the University of Reading, UK, on 19-20 January 2020. https://bit.ly/20I3h7f
20-02-19	Congratulations: #Peas for making gin! A good example for the transdisciplinary process within our #H2020 project - New product by our partner Arbikie Distillery promoted with calculations based on the research carried out together and published by Lienhardt et al. "Just the tonic! #Legume #biorefining for alcohol has the potential to reduce Europe's protein deficit and mitigate #climate change": https://sciencedirect.com/scien.../article/.../S0160412019308773 EU Agriculture: Food & Farming
20-02-13	Press release on #worldpulsesday from Martin Häusling MEP: Cultivate domestic feed, promote soil fertility, protect the climate! https://www.martin-hausling.eu/.../200210_PR_Cultivate_domes...





Date	Post
20-02-10	Food and Agriculture Organization of the United Nations (FAO) posts: 📅 we celebrate #worldpulseday on the 10th of February Learn about 10 reasons why including a market in your diet is essential 👉 http://www.fao.org/fao-stories/article/en/c/1176990/ #WPD2020
20-01-30	A new video on our blog #NotesFromTheField: Emilie and Simon from Hülsenreich about their perspective as processing #startup on transition paths for more legumes. They make #chickpeas snackable and suggest to snack legumes every day. https://www.true-project.eu/.../true-interview-with-h%C3%BCL.../
20-01-23	We published the report of our 2nd Legume Innovation Network (LIN) Workshop of the Atlantic region. It was focussed on opportunities and barriers of legume processing. The workshop took place in Denmark last year and was hosted by IFAU and Organic Denmark. https://www.true-project.eu/lin-wor.../atlantic/documentation/
20-01-22	A new blogpost on the TRUE blog #NotesFromTheFields reports about the Croation Legume Innovation Network workshop organised by Public Institution for the Development of the Međimurje County REDEA for stakeholders across the legume value chain: https://true-project.eu/.../report-of-the-legume-innovation-.../
20-01-14	New report online about value chains for #legumes used as #food: https://www.true-project.eu/publications-reso.../deliverables/ It gives an overview of the infrastructure for trade and processing of fresh produce and dried legume-grains (mainly #pulses) in the EU food market. Direct link for download: https://www.true-project.eu/.../D4.1%20Food%20value%20chains%...





Twitter

All Twitter activities of the TRUE-project can be found on <https://twitter.com/TrueLegumes/>, where the project currently has 735 followers. Below we list only the Tweets which were originally written by TRUE-project partners (*i.e.* retweets are not accounted), and only over the last four months for reasons of brevity. The full list can be seen using the link provided in this paragraph.

Table 8. List of tweets made *via* Twitter by project partners (last 4 months only).

Date	Tweet
20-03-30	#StayHealthyEveryone #eathealthy Eat more Legumes! How do #legumes contribute to your health? Our #H2020 project is working on legumes. For recent #openaccess research results and reports visit the TRUE community on Zenodo: https://zenodo.org/communities/true_legumes @EIPAGRI_SP @EUAgri
20-03-30	Which are the benefits of introducing #legumes into #foodsystems? A leaflet about #LifeCycleAssessment of legumes and legume based products gives some answers. Download the Deliverable and the leaflet on @EIPAGRI_SP @EUAgri @SciFoodHealth #H2020 @BangorUni
20-03-01	The role of legumes in a future sustainable food system - presentation of the TRUE project during the @genbankle seeds market at the @tueboga in Tübingen. More than half of the audience have grown legumes themselves before. Thanks for the invitation.
20-02-19	Congratulations: #Peas for gin! A transdisciplinary process with research by Lienhardt et al. "Just the tonic! #Legume #biorefining for alcohol has the potential to reduce Europe's protein deficit and mitigate #climate change": https://sciencedirect.com/science/article/pii/S0160412019308773... @EIPAGRI_SP @EUAgri #H2020
20-02-13	Press release on #worldpulsesday from @MartinHaeusling: Cultivate domestic feed, promote soil fertility, protect the climate! https://martin-haeusling.eu/images/200210_PR_Cultivate_domestic_feed_promote_soil_fertility_protect_the_climate.pdf
20-01-30	A new video on our blog #NotesFromTheField: Emilie and Simon from "Hülsenreich" about their perspective as processing #startup on transition paths for more legumes. They make #chickpeas snackable and suggest to snack legumes every day. https://true-project.eu/2020/01/17/true-interview-with-h%C3%BClsenreich/... @EIPAGRI_SP#H2020
20-01-23	We published the report of our 2nd Legume Innovation Network (LIN) Workshop of the Atlantic region. It was focussed on opportunities and barriers of legume processing. The workshop took place in Denmark last year and was hosted by IFAU and @OrganicDenmark
20-01-23	10 + 10 strategy for 10% rapeseed and 10% legumes on the fields for sustainable supply of food- feed and fuel markets
20-01-22	A new blogpost on the TRUE blog #NotesFromTheFields reports about the Croatia Legume Innovation Network workshop organised by Public Institution for the Development of the Medimurje County REDEA for stakeholders across the legume value chain: https://true-project.eu/2020/01/14/report-of-the-legume-innovation-network-workshop-in-croatia/... @EIPAGRI_SP
20-01-14	New report online about value chains for #legumes used as #food: https://true-project.eu/publications-resources/deliverables/... It gives an overview of the infrastructure for





Date	Tweet
	trade and processing of fresh produce and dried legume-grains (mainly #pulses) in the EU food market. #H2020 @EUAgri @EIPAGRI_SP #EUProteinPlan
20-01-08	The report about legume supporting policies is online: The Delphi exercise identified three policy action areas and governance solutions with the highest potential to trigger change and to overcome the legume paradox. Read more: https://true-project.eu/publications-resources/deliverables/
19-12-23	A virtuous spirit - @cpm_magazine article about pulses soon forming the basis of the industry's first-ever carbon-positive product. http://cpm-magazine.co.uk/wp-content/uploads/2019/12/CPM-Decemebr-2019.pdf... (page 23 ff.) @Arbikie @kirsty_black
19-12-19	New report online, providing examples of best practices for commercialising grain legumes in the food- and feed sectors, ingredient- and processed-product markets. Download possible on our website: https://true-project.eu/publications-resources/deliverables/...
19-12-16	Just in case you missed it, check https://true-project.eu/publications-resources/newsletter... to find the 4th Newsletter of the TRUE Project with legume based news and links related to our EU #H2020 project TRUE. Don't forget to subscribe for the newsletter to receive it directly the next time!
19-12-13	A new TRUE deliverable is uploaded on our website: It identifies a set of sustainable development indicators (#SDIs) for legume-based quality chains and builds on work carried out in WP4 including literature, case studies and stakeholder consultations. https://true-project.eu/publications-resources/deliverables/...



Public Deliverables

TRUE is committed to Open Access publication, and public deliverables are made accessible immediately upon their submission to the EC. Such public Deliverables generated during the third project year are listed below with links provided for direct download. The list of all public deliverables is available online at: <https://www.true-project.eu/resources-links/deliverables/>

Table 9. Publicly available Deliverables of Year 3, available on the project website.

Date	No.	Title	Authors	Partner	Link
19-03-31	D1.5	Scientific, practice and policy publications - Year II	Kolmans, A., Maaß, H.,	UHOH, all partners	link
19-09-30	D4.5	Sustainable Development Indicators for Quality Chains	Hamann, K., Vasconcelos, M., Löhrich, N., Balazs, B., Kelemen, E., Ntatsi, G., Maaß, H., Toma L., Debeljak, M., Trajanov, A., Bertenyi, G., Krall, A., Topol J., Varandas, E., Odee, D., Tran, F., Iannetta, P.P.M.	IFAU, UCP, IGV, ESSRG, AUA, UHOH, SRUC, JSI, AK, PIREDE, EUR, KEFRI, JHI	link
19-12-03	D4.6	Best practices for the commercialisation of legumes	Hamann K., Tran F., Bienkowski D., Vickers R., Howard B., Maaß H., Kolmans A., Blažon N., Kelemen E., Balázs B., Odee D., Toma L., Debeljak M., Trajanov A., Vasconcelos M., Iannetta P.P.M.	IFAU, JHI, PGRO, UHOH, SRUC, JSI, PIREDE, ESSRG, KEFRI, UCP, JHI	link
19-12-19	D7.3	Application of Delphi for governance contexts which favour legume-supported value chains	Balázs, B., Kelemen, E., Centofanti, T., Vasconcelos, M., Maaß, H., Kolmans, A., Squire, G., Tran, F., Bienkowski, D., Iannetta, P.P.M.	ESSRG, UCP, UHOH, JHI	link
19-12-19	D4.1	A map of value chains for legumes used as food	Hamann K., Vasconcelos M., Löhrich N., Odee D., Vickers R., Blazon N., Trstenjak M., Toma L., Maaß, H., Kolmans, A., Tran F., Bienkowski D.A., and Iannetta P.P.M.	IFAU, UCP, IGV, KEFRI, PGRO, PIREDE, SRUC, UHOH, JHI	link
20-03-06	D5.2	Summary Leaflet: attributional LCA for legumes and legume-based products	Styles, D., Porto Costa, M., Williams, M., Saget, S., Zimmermann, B., Barilli, E., Black, K., Lehrack, U., Löhrich, N., Bienkowski, D., Iannetta P.P.M.	BU, TCD, UHOH, SOL, ADL, IGV, JHI	link (link to leaflet)
20-03-06	D5.3	Open Access Database for Life Cycle Analysis	Porto Costa, M., Styles, D., Williams, M., Saget, S., Zimmermann, B., Barilli, E., Black, K., Lehrack, U., Löhrich, N., Bienkowski, D., Iannetta P.P.M.	BU, TCD, UHOH, SOL, ADL, IGV, JHI	link
19-03-08	D9.8	Impact plan recommendations	Löhrich, N., Walter, M., Vandenberg, A., Sendim, A., Silva, R., Kolmans, A., Maaß, H., Oliveira, B., Varandas E.,	JHI, IGV, FDM, UHOH, EUR, PGRO,	link



			Howard, B., Vickers, R., Rees, B., Toma, L., Shrestha, S., Nathansohn, C., Odee, D., Styles, D., Barilli, E., Kelemen, E., Balázs, B., Bertényi, G., Králl, A., Ntatsi, G., Savvas, D., Banfield-Zanin, J., Topol, J., Trstenjak, M., Hamann, K., Black, K., Carmichael, L., Debeljak, M., Trajanov, A., Grusak, M., Williams, M., Kneafsey, M., Basu, P., Boddey, R., Tran, F., Damian Bienkowski, D., Vasconcelos, M., Iannetta, P.P.M.,	SRUC, SF, KEFRI, ESSRG, BU, SOL, AK, AUA, STC, PIREAD, IFAU, ADL, JSI, TCD, UCP and members from the ISAB	
19-03-11	D8.2	Decision Support Models for the Evaluation of Legume-Based Systems: Environment, Economy and Socio-policy	Debeljak, M., Dergan, T., Squire, G., Centofanti, T., Williams, M., Saget, S., Styles, D., Costa, M., Shrestha, S., Toma, L., Faical, A., Balázs, B., Keleman, E., Bienkowski, D., Hawes, C., Iannetta, P., Trajanov, A. (JSI, JHI, ESSRG, TCD, BU, SRUC	link
19-03-20	D6.2	Behavioural analysis of farmers' and consumers' choice for legume uptake	Toma, L., Akaichi, F., Shrestha, S., Barnes, A., Bienkowski, D., Iannetta, P.P.M.	SRUC, JHI	link
19-03-27	D6.3	Scenarios for upscaling production, including economic and trade indicators: report I	Shrestha, S., Zimmermann, B., Toma, T., Akaichi, F., Barnes, A., Angenendt, E., Eckart, P., Oré Barrios, C., Bienkowski, D., Iannetta, P.P.M.	SRUC, UHOH, JHI	
19-03-27	D4.3	Facilitating the EU market demand for legume-grain and -fodder as feeds	Hamann K., Davies C., Lambertsen, L., Bálint B., Kelemen E., Black K., Houdijk J., Weiss M., Slater M., Zetyin S., Gruber, S., Hawes, C., Bienkowski D., Iannetta P.P.M	IFAU, ESSRG, ADL, SRUC, AWI, UHOH, JHI	link
19-03-28	D5.5	The Environmental Assessment of Diets	Williams, M., Suttle, M., Saget, S., Sheeran, S., Cotter, M., O'Leary, K., Bienkowski, D., Iannetta, P., Styles, D.	TCD, BU, JHI	link



European Legume Innovation Network (ELIN) workshops

Three LIN workshops were held in the 3rd project year of TRUE. In addition, there was also a national LIN workshop in Croatia last year. Only organising partners are listed here. The full list of Partners contributed oral and poster presentations to these workshops will be available in the periodic report. The slides and posters can be found in the documentation section of each region under www.true-project.eu/lin-workshops.

Table 10. TRUE ELIN stakeholder workshops in project year 3.

Date	Title	Authors	Partner	Link
19-05-07/08	2nd Atlantic Legume Innovation Network (LIN) workshop of the Atlantic (and Boreal) Region: <i>“Enabling Legume Processing: opportunities and barriers”</i> Nyborg, Denmark		IFAU, JHI, UHOH, ESSRG, PGRO	link
	Report on the 2nd Legume Innovation and Networking (LIN) Workshop for the Atlantic and Boreal Region	Bramming, P., Hamann, K., Howard, B., Kelemen, E., Maaß, H., Tran, F., Bienkowski, D.A., Iannetta, P.P.M.		link
19-07-09	2nd TRUE LIN Workshop in the Mediterranean region: <i>“Realising the ecological-health approach: consumers’ transition to legume-based diets”</i> , Porto, Portugal		UCP, JHI, UHOH, ESSRG, IFAU	link
19-09-16/17	3rd TRUE LIN Workshop for the Continental Region: <i>“Sustainability of Legume Agri-Food Chains”</i> , Ljubljana, Slovenia		JSI, JHI, UHOH, ESSRG, SRUC, IFAU	link
	Report of the Legume Innovation Network workshop in Croatia	Trstenjak, M., Blažon, N.	PIRED	link

The resources used and generated from these events are made available publicly on the TRUE website as soon as they are collated after each event. These may be accessed using the following link: <https://www.true-project.eu/lin-workshops/>.



Annexes

Annex 1: Stakeholder events (excluding ELINs)

Table 11. Stakeholder events (co-)organised by TRUE members in project year 3 (non-exhaustive list).

Date	Title	Event	Authors	Partner	Link
19-04-10	Successful demonstration of different techniques for the production of pasta from legumes for master bakers	Master baker courses, IGV GmbH	Nora Löhrich	IGV	link
19-05-20	Field visits and talks with farmers		Barilli, E.	SOL	
19-06-24	Organisation of a sustainability-focused conference - "STC Sustainability Conference 2019: Growing in the Green"	STC Sustainability Conference 2019: 'Growing in the Green'	George, D.R., Banfield-Zanin, J.A.	STC	
19-08-12	Preservation of local, traditional beans and other legumes: meeting with local growers and gardeners ("Salem Seed Initiative") at Lake Constance	Meeting at Hagnau and Salem, near Lake Constance	Gruber, S., and other board members of the association "Genbänkle" (Swabian gene bank for local varieties)	UHOH	
19-08-28	Green public procurement and plant-based foods	Roundtable meeting about green public procurement, food service and plant-based foods in Denmark	Hamann, K.	IFAU	
19-09-06	Preservation of local, traditional beans and other legumes: meeting with a local preservationist	Meeting at Wolfegg, near Lake Constance	Gruber, S., and other board members of the association "Genbänkle" (Swabian gene bank for local varieties)	UHOH	
19-11-20	Friends of Europe's future of food conference	Brussels	Balázs, B.	ESSRG	link
19-11-27/28	Exhibit stand at Croptec 2019 as part of Newcastle University	Croptec 2019	George, D.R., Howard, B.	STC, PGRO	





Date	Title	Event	Authors	Partner	Link
	stand; dissemination of role of legumes and living mulches in agriculture, and TRUE trials at STC; Launch of the Pulse Recommended List and industry discussion about pulse production		Belcher, S and Vickers, R		
19-11-27/28	Agroecology Conference Hungary	Budapest	Balázs, B.	ESSRG	link
19-12-11	Consultations on the Climate Kitchen cookbook		Gábor Bertényi	AK	
19-12-12	Policy Deliverable submitted		Balázs, B.	ESSRG	link
20-01-29	Food for the Future: Protein Transition	Brussels, PROTEIN2FOOD Final Conference	Balázs, B.	ESSRG	link
20-02-18	III. TRUE cultivation meeting of Hungarian pulse land races	III. TRUE cultivation meeting of Hungarian pulse land races, Budapest	Co-organized with ÖMKI - Hungarian Research Institute of Organic Agriculture	AK	link
20-03-11	Celebration of the 10 year anniversary of the cooperation of Öko-EZG Albleisa and University of Hohenheim	Assembly of lentil cultivators association (Öko-EZG Albleisa; collaborators of TRUE)	Zikeli, S., Gruber, S.	UHOH	link
continuous	Meetings with small-scale producers participating in the cultivation experiment within Agri Kulti's Case Study	Meetings with small-scale farmers at Nagyszékely, Kóspallag, Orgovány, Szár, Töreki, Törtel, Zsámbok	Gábor Bertényi	AK	



Annex 2: Public events

Table 12. Public events organised by/with contributions from TRUE members in project year 3 (*non-exhaustive list*).

Date	Title	Event	Authors	Partner	Link
19-04-24/28	Markt des guten Geschmacks	SF Fair Market, Germany	Slow Food Germany	SF	
19-04-26	Legume biofertilizers display	Central Highlands Eco-Region Programme, Open Day, KEFRI Headquarters	C. Magare, M. Esitubi, E. Makatinai, J.O. Otieno, D. Odee, M. Kinyanjui	KEFRI	
19-05	"XVII Congresso de Nutrição e Alimentação" Coffee breaks	"XVII Congresso de Nutrição e Alimentação" Lisboa, Portugal	Oliveira, B. and Varandas, E.	EUR	
19-05-23	Conference on Conservation and Agrotechnology	Organized by MME/BirdLife Hungary, Gödöllő, Hungary	Gábor Bertényi, Botond Bogнар	AK	
19-05-28/29	LCA training	LCA training WeLOOP, France	Saget, S.	TCD	
19-05-30/06-01	Legume biofertilizers display	Western Kenya Show, Kakamega	J. O. Otieno, E. Makatiani,	KEFRI	
19-05-31	Brain Bar Budapest	Brain Bar 2019, Budapest	Gábor Bertényi	AK	
19-06	Festival do Coração	Festival do Coração	Oliveira, B. and Varandas, E.	EUR	
19-06-02	SF stand at the environment Festival in Berlin	Umweltfestival Berlin	SF guG	SF	
19-06-05	National Organic Demonstration Dairy Farm Walk	Farm of Sean Condon, Fanningstown, Crecora, Co. Limerick	Dan Clavin	TEAG	link
19-06-09	#CoolBeans	LEAF (Linking Environment & Farming) Open Farm Sunday	Iannetta, P.P.M., Tran, F., Maluk, M., James, E.K.	JHI	
19-06-12/13	Pulse markets and production with demonstration plots	Cereals 2019	Howard, B, Vickers, R. Belcher, S. Scrimshaw, J. and Herold, L	PGRO	
19-06-19/23	SF stand at the protestant church day in Dortmund	DEKT (Deutscher Evangelischer Kirchentag) in Dortmund	SF gUG	SF	
19-07-02	Pulse production and markets, demonstration plots	PGRO Pulse Open Day	Vickers, R., Howard, B, Belcher, S.,	PGRO	





Date	Title	Event	Authors	Partner	Link
			Scrimshaw, J. and Herold, L.		
19-07-03	CSA open talks	Community Supporting Agriculture open talks, Portugal	Sendim, A. and Silva, R.	FDM	
19-07-09	Showcooking with legumes	2nd Mediterranean Legume Innovation and Networking (LIN) Workshop, Porto, Portugal	Chef Antonio Leoci	UCP	
19-07-11	Educational course for farmers: QQI Organic Production Principles course. Module on Organic Grassland and Forage legumes	Educational Module (QQI accredited) on Organic Grassland and Forage legumes	Dan Clavin	TEAG	
19-07-16	Educational course for farmers: QQI Organic Production Principles course. Module on Organic Grassland and Forage legumes	Educational Module (QQI international accreditation) on Organic Grassland and Forage legumes	Elaine Lreavy	TEAG	
19-07-26/27	Legume biofertilizers display	Wambugu Farmers Field Day, Wambugu ATC Nyeri	E. Makatiani, J.O.Otieno	KEFRI	
19-08-29/09-02	European SFYN (Slow Food Youth Network)- Meeting	European SFYN (Slow Food Youth Network)- Meeting	SFY Louise Duhan	SF	
19-09-11/14	Legume biofertilizers display	Central Kenya Show, Nyeri	E. Makatiani, J.O. Otieno	KEFRI	
19-09-13	II. International Conference on Food and Marketing	Organized by Hungarian Chamber of Agriculture	Botond Bogнар	AK	
19-09-15/28	Climate KIC Summer School, Budapest-Valencia	Climate KIC Summer School, Budapest-Valencia	Saget, S.	TCD	
19-09-16	Euraknos Conference	Organized by Euraknos H2020 project, Budapest	Bertényi Gábor	AK	
19-09-19	Attendance and discussion of role of legumes at KTN Conference - 49th Intelligent Sensing Program: Sensing in Precision (Digital) Agriculture	KTN Conference - 49th Intelligent Sensing Program: Sensing in Precision (Digital) Agriculture	Banfield-Zanin, J.A.	STC	





Date	Title	Event	Authors	Partner	Link
19-09-19/20	International Conference of Crop Diversification	Organized by Institute for Organic Agriculture, Budapest	Gábor Bertényi, Botond Bognar	AK	
19-09-20	SF stand at the global climate strike in Berlin	Fridays for Future	Slow Food Germany	SF	
19-09-20/22	SF stand at the Fair Market (Erfurt)	'Messe besser Leben' (,Fair better life')	SF guG	SF	
19-09-30/10-02	UrbAct meeting in Coimbra		Gábor Bertényi	AK	
19-09-30/10-06	Legume biofertilizers display	Nairobi International Trade Fair	E. Makatiani, J.O. Otieno, M. Esitubi, C. Magare, M. Kinyanjui	KEFRI	
19-10-01/20-02-28	Rhizobium isolation, characterisation and storage	Hands-on training for interns/students, KEFRI Biotechnology Lab	E. Makatiani, J.O. Otieno, C. Magare, M. Esitubi, M. Kinyanjui	KEFRI	
19-10-02	Rhizobium inoculation of beans	Farmer Engagement and Technology Transfer at Nyabeda field trial	C. Magare, M. Esitubi, E. Makatiani, J.O. Otieno, M. Kinyanjui	KEFRI	
19-10-04/08		Anuga trade fair - TRUE Project dissemination activities at the booth of IGV GmbH, Cologne, Germany	Martha Walter	IGV	
19-10-15	Congresso Alimentação e Autarquias	Congresso Alimentação e Autarquias, Porto, Portugal	Marta W. Vasconcelos	UCP	
19-10-21		Proteina 2019 "Proteine aus der heimischen Ackerbohne", Magdeburg, Germany	Nora Löhrich	IGV	
19-10-25	Cape Verde farmers visit to HFM	Cape Verde farmers visit to HFM, Portugal	Sendim, A. and Silva, R.	FDM	
19-10-29	Industry Talk: Organic Cereal Update - role of red clover	Organic Cereal Update and role of red clover in the crop rotation	Dan Clavin	TEAG	link
19-10-5/9	Anuga food fair, Germany	Anuga food fair, Germany	Saget, S.	TCD	
19-11-17	8º encontro do Outono	8º encontro do Outono, Portugal	Sendim, A. and Silva, R.	FDM	
19-11-18	Attendance, presentation and	KTN Conference - ISCF Future Food	Banfield-Zanin, J.A.	STC	



Date	Title	Event	Authors	Partner	Link
	discussion of role of legumes	Production briefing event (London)			
19-11-19	Young Farmer Discussion Group Talk, Co. Kilkenny	Live demo on how to grow and manage clover	Dan Clavin	TEAG	
19-11-20	The future of food conference, Brussels	The future of food conference, Brussels, Belgium	Marta W. Vasconcelos	UCP	
19-11-20	Beef Farmer Discussion Group Talk, Co. Westmeath:	Live demo on how to grow and manage clover	Dan Clavin	TEAG	
19-11-27	Attendance, presentation and discussion of role of legumes	KTN Conference - ISCF Future Food Production briefing event (York)	Banfield-Zanin, J.A.	STC	
19-11-27	I. Hungarian Agroecology Conference		Gábor Bertényi, Botond Bognar	AK	
19-12-05	Attendance and discussion of role of legumes	ISCF Future Food Production briefing event (London)	Howard, B and Vickers, R	PGRO	
19-12-06	Networking with DIVERSIFY project team at Diversify GA	DIVERSIFY General Assembly, Copenhagen	Marta W. Vasconcelos	UCP	
19-12-11	UrbAct presentation	Organized by Lechner Knowledge Centre	Gábor Bertényi	AK	
2020	Menu Planning Eurest (Plano de Ementas) "Choose Beans"	Menu Planning Eurest (Plano de Ementas) "Choose Beans" Eurest Portugal restaurants	Oliveira, B. and Varandas, E.	EUR	
20-01-14/24	Presentation of lentil projects, presentation of a lentil recipe booklet	Green Week in Berlin	Zikeli, S.	UHOH	
20-01-19	SF stand at the Brandenburger Tor in Berlin near the stage	Wir haben es Satt-Demo Berlin		SF	link
20-01-20/23	UrbAct meeting in Bassa Romagna, Italy		Gábor Bertényi, Botond Bognar	AK	
20-01-23	Exhibit stand as part of Newcastle University stand; dissemination of role of legumes and living mulches in agriculture, and TRUE trials at STC	The Royal Society - "You and the planet: Food"	George, D.R.	STC	





Date	Title	Event	Authors	Partner	Link
20-01-29	Attendance at and discussion of role of legumes in agricultural and horticultural production; discussion of TRUE projects aims and STC trials	Askham Bryan Annual Horticultural Conference	Cummins, S., Ormerod, A.	STC	
20-01-29	The future of food	Conference, Brussels, Belgium	Marta W. Vasconcelos	UCP	
20-02-04	Pulse crop production and protection training for growers and agronomists	PGRO Crop production and protection course	Howard, B., Scrimshaw, J., Herold, L. and Duffy, S.	PGRO	
20-02-10	Legumes – Food for Future	World day of legumes		SF	link
20-02-24	Kick-off conference: Danish network on plant-based foods	Kick-off conference: Danish network on plant-based foods	Hamann K.	IFAU	



Annex 3: Popular press articles and interviews

For press releases and media uptakes see also the TRUE website: www.true-project.eu/news-events/press-releases and www.true-project.eu/news-events/press-releases/press-review

Table 13. Popular press articles and interviews by and with TRUE members in project year 3 (*non-exhaustive list*)

Date	Title	Event	Authors	Partner	Link
19-04-05	Bønner kan 1000 ting (press release for the ALIN in DK)	Newsletter: Fødevarerefokus.dk	Hamann K.	IFAU	link
19-04-26	Kraftpaket Hülsenfrüchte: 1:0 für die Leguminosen im Kampf gegen Micro Meals	Slow Food Messe Stuttgart 2019	Maaß, H.	UHOH	link
19-05-01	Workshop about using protein crops	Communication about the ALIN from Organic Denmark's website	Hamann K. and Lambertsen L.	IFAU	link
19-05-01	Red and white clover swards and their benefits to livestock and silage systems	Technical article in annual Irish Farmers Monthly Magazine - Forage and Nutrition Guide 2019.	Dan Clavin	TEAG	link
19-05-08	Whisky kan også laves af bælgplanter	In: Effektivt Jordbrug; press about the ALIN	Jensen P J.	IFAU	link
19-05-10	Plads til langt større produktion af bælgplanter	in: Effektivt Landbrug; press about the ALIN	Hattesen M.	IFAU	
19-05-10	Hestebønner til gin og fiskefoder - kan du føje mere til listen?	In: Landbrugsavisen; press about the ALIN	Hattesen M.	IFAU	link
19-06	Bean YEN complements the Pea YEN and provides growers with benchmarking to achieve a perfect pulse crop; Crop rotation embedded in integrated crop management for peas and beans; Comparing field beans with soya in beef diets.	In: Pulse Magazine Summer Edition	Becky Howard/ Roger Vickers/ Michael Carpenter	PGRO	
19-07-04	How an afternoon tippie made from peas could help save the rainforest.	TCD, Press Release and filmed interview	Lienhardt, T., Black, K., Saget, S., Costa, M.P., Chadwick, D., Rees, R.M., Williams, M., Spillane, C.,	TCD	link





Date	Title	Event	Authors	Partner	Link
			Iannetta, P.P.M., Walker, G., Styles, D.		
19-07-26	E hoje, já comeu feijão? O papel das leguminosas em dietas mais sustentáveis	Opinion article in the Público Newspaper	Marta W Vasconcelos	UCP	link
19-08-05	Bean beer joins supermarket craft beer festival	The Scottish Field (Trade/Public Magazine)	Iannetta, P.P.M., Black, K. Barnett, A., Walker, G.	JHI	link
19-08-08	Há um projeto que quer aumentar o cultivo, diversidade e consumo de leguminosas na Europa	Technical article Voz do Campo		UCP	
19-08-10	Including of TRUE in periodic Comment piece published by STC representative in the Yorkshire Post Saturday circulation	Yorkshire Post publication (Comment piece in Saturday circulation insert)	Branfield, L.	STC	link
19-08-28	Benefits of a pea and tonic	Nature Climate Change - Research Highlights	Lienhardt, T., Costa, M., Rees, R., Williams, M., Spillane, C., Black, K., Iannetta, P., Saget, S., Chadwick, D., Walker, G., Styles, D.	BU	link
19-09-13	Mehr Unterstützung für den Anbau von Leguminosen! (Engl.: More Support for growing Legumes)	Slow Food Magazine	different authors	SF	link
19-09-18	Peas are a greener choice for making gin	Brewer & Distiller International (magazine)	Lienhardt, T., Costa, M., Rees, R., Williams, M., Spillane, C., Black, K., Iannetta, P., Saget, S., Chadwick, D., Walker, G., Styles, D.	BU	
19-10-01	Power of legumes	Slow Food Magazin		SF	
19-11	Launch of Recommended List for UK Pulses	Crop Tec 2019	Becky Howard, Roger Vickers	PGRO	
19-11-08	EP. 720 ELISABETE PINTO – PROJETO DESENVOLVE ESTRATÉGIAS DE PRODUÇÃO	Radio interview for Antena 1	Elisabete Pinto	UCP	link





Date	Title	Event	Authors	Partner	Link
	SUSTENTÁVEL DE LEGUMINOSAS				
19-11-25	Alimentação infantil: Não chega ser saudável, tem de ser também sustentável	Opinion article in the Público Newspaper	Elisabete Pinto	UCP	link
19-11-30	Including of TRUE in periodic Comment piece published by STC representative in the Yorkshire Post Saturday circulation	Yorkshire Post publication (Comment piece in Saturday circulation insert)	Branfield, L.	STC	
19-12	New markets for peas; Stephen Belcher gives the details for the new 2020 Recommended Lists; Pulse crop YENs providing growers with benchmarking to achieve a perfect pulse crop; Market Prospect	Pulse Magazine Publication Winter Edition	Becky Howard/ Roger Vickers/ Lewis Cotty (Pulses UK)/ Gail Clarke	PGRO	link
19-12-10	So gesund, vielfältig und regional sind Linsen (Engl.: That healthy, diverse and regional are lentils)	Augsburger Zeitung (newspaper)	Gruber, S.	UHOH	link
19-12	Pulses: a virtuous spirit	Crop Production Magazine	Tom Allen-Stevens - Black, K., Iannetta, P., Roger Vickers	ADL, JHI, PGRO	link
20-01	Mehr Linsen braucht das Land (Engl.: The land needs more lentils)	BW agrar1/2020, 4 – 5. (farmers magazine)	Gruber, S.	UHOH	link
20-01-19	Interview with Cecilia Antoni, Bean Beat	Slow Food Magazin		SF	
20-02-17	Hülsenfrüchte- Food of the Future - Interview with Cecilia Antoni	Slow Food Deutschland Website	Marion Busch	SF	link
20-02-19	Sky News Live	Sky News Live			link
20-02-19	Reuters	Reuters			link
20-02-19	BBC GMS	BBC GMS			link
20-02-19	The Nine	The Nine			link
20-02-19	BBC Reporting Scotland	BBC Reporting Scotland	Black, K. Stirling, J. Stirling, I	ADL	link
20-02-19	BBC Radio Scotland	BBC Radio Scotland			link
20-02-19	New pea gin is green tonic	Daily Mail			
20-02-19	I'll have a gin, peas	The Sun			
20-02-19	Eco drink a G&PEA	The Sun			





Date	Title	Event	Authors	Partner	Link
20-02-19	Green gin from peas	Daily Star			
20-02-19	Climate-positive' gin is made from peas	i			
20-02-19	This'll leave you pea-eyed - Kirsty creates 'green' gin	Metro			
20-02-19	Cheers! Scottish scientists saving the planet...one G&T at a time	The Herald			
20-02-19	Green' gin made from peas to reduce carbon dioxide emissions	The Scotsman			link
20-02-19	Tayside gin is world's first 'climate positive'	The Courier			link
20-02-19	'Green' gin from peas	Birmingham Mail	Black, K. Stirling, J. Stirling, I	ADL	
		Coventry Telegraph			link
		Daily Post			link
		Derby Evening Telegraph			link
		Evening Chronicle			link
		Evening Gazette			
		Grimsby Telegraph			link
		Hull Daily Mail			link
		Leicester Mercury			link
		Manchester Evening News			
		Nottingham Evening Post			link
		South Wales Echo			
		The Huddersfield Daily Examiner			
The Plymouth Herald					
The Sentinel	link				
20-02-25	Interview - Liaison Project	Liaison project - Coordinator & stakeholder interviews	Iannetta, P.P.M.	JHI	link
20-03-02	Video for Youtube channel. "Yo investigo. Yo soy CSIC"	Yo investigo. Yo soy CSIC. Spain	Barilli, E.	SOL	link



Annex 4: TRUE partner social media activities

Some TRUE partners listed their activities on Social Media channels like Facebook and Twitter.

Table 14. TRUE partner social media activities, Year 3 (*non-exhaustive list*).

Date	Title	Authors	Partner	Link
19-04-15	Tweet - Green manure trial	Judith Conroy	CU	link
19-05-07	FB post: TRUE LIN workshop Denmark	Nora Löhrich	IGV	link
19-05-12	FB posts on TRUE A-LIN Conference	Gábor Bertényi	AK	
19-05-31	FB post on Brain Bar		AK	
19-06	Cereals event	Becky Howard/ Roger Vickers	PGRO	
19-06	E-book online/ www.eurest.pt	Oliveira, B. and Varandas, E.	EUR	link
19-07-08	FB post on BioHorizon Brokerage Event	Gábor Bertényi	AK	
19-07-10	Tweet - Francis presenting on green manures (CS8) in Porto	Judith Conroy	CU	link
19-07-10	Tweet - Barbara presenting on bees and beans (CS7) in Porto	Judith Conroy	CU	link
19-07-18	FB post on TRUE GA Meeting	Gábor Bertényi	AK	
19-08	Press Release	Roger Vickers	PGRO	
19-08-23	FB post on harvesting of legumes as part of Agri Kulti's Case Study	Gábor Bertényi	AK	
19-09-06	FB post on TRUE C-LIN Workshop, Slovenia		IGV	link
19-09-23	FB-post on FAO publication		AK	
19-09-24	Blog post: 'What a difference a year makes for living mulches'	Banfield-Zanin, J.A.	STC	link
19-09-27	FB-post on International Conference of Crop Diversification	Gábor Bertényi, Botond Bognar	AK	
19-10-07	Anuga trade fair - TRUE Project dissemination activities at the booth of IGV GmbH, Cologne, Germany	Martha Walter	IGV	link
19-10-08	Instagram-post on harvesting of legumes as part of Agri Kulti's Case Study	Botond Bognar	AK	link
19-10-14	FB-post on ESSRG publication	Gábor Bertényi	AK	link
19-10-16	Instagram post on World Food Day	Botond Bognar	AK	link
19-10-22	Proteina 2019 "Proteine aus der heimischen Ackerbohne", Magdeburg, Germany	Martha Walter, Nora Löhrich	IGV	link
19-10-23	Proteina 2019 "Proteine aus der heimischen Ackerbohne", Magdeburg, Germany	Martha Walter	IGV	link
19-10-23	FB-post on UrbAct meeting in Coimbra	Gábor Bertényi	AK	link
19-10-29	Instagram post on TRUE publication	Botond Bognar	AK	link
19-11-15	Instagram post on FAO publication	Botond Bognar	AK	link
19-11-29	FB-post on I. Hungarian Agroecology Conference	Gábor Bertényi	AK	link





19-12-02	Instagram post on Year on Plant Health 2020	Botond Bognar	AK	link
19-12-13	FB-post on UrbAct presentation	Gábor Bertényi	AK	link
19-12-17	FB-post on TRUE publication	Gábor Bertényi	AK	link
19-12-18	Instagram post on TRUE publication	Botond Bognar	AK	link
20-01-10	Pulses: sustainable 'superfoods' for the future	Iannetta, P.P.M	JHI	link
20-01-23	Information about published report of the 2nd Legume Innovation network workshop of the atlantic region	Martha Walter	IGV	link
20-01-27	Instagram and FB-post on UrbAct meeting	Gábor Bertényi, Botond Bognar	AK	link
20-02-10	Instagram and FB-post on World Pulses Day	Gábor Bertényi, Botond Bognar	AK	link
2020-03	E-book online (EN translation/ www.eurest.pt)	Oliveira, B. and Varandas, E.	EUR	link
various	Twitter	Roger Vickers	PGRO	link



Annex 5: TRUE partner project subpages

Most of the TRUE partners refer to the TRUE-Project and the TRUE website on their organisations website (see list below).

Table 15. List of TRUE partner project subpages referring to the project and its website (*non-exhaustive list*).

Partner	Website
AK	https://www.agrikulti.hu/portfolio/true/
ADL	
AUA	https://www2.aua.gr/el/news-events/nea/horizon-2020-programma-true-transition-paths-sustainable-legume-based-systems-europe
AWI	https://www.awi.de/forschung/besondere-gruppen/aquakultur/aquakulturforschung/projekte/true.html
BU	
CU	https://www.coventry.ac.uk/research/research-directories/current-projects/2019/true/and
ESSRG	https://www.essrg.hu/hu/true-hu/
EUR	https://www.eurest.pt/sustentabilidade/#true
FDM	coming soon
IFAU	http://www.ifau.dk/om-ifau/nyheder/
IGV	http://www.igv-gmbh.de/igv-gmbh/aktuelles/detail/artikel/eu-projekt-zur-foerderung-des-anbaus-von-huelsenfruechten-in-europa/
JHI	https://www.hutton.ac.uk/news/true-food-security-explored-legume-based-perspective
JSI	coming soon
KEFRI	
PGRO	https://www.pgro.org/press-release-1-march-2019/
PIRED	http://www.redea.hr/en/about-us/current-projects/
SF	https://www.slowfood.de/slow_themen/lebensmittelerzeugung_und_konsum/projekte_und_aktionen/eu_projekt_huelsenfruechte_true
SOL	
SRUC	https://www.sruc.ac.uk/info/120258/behavioural_change_and_innovation
STC	coming soon
TCD	
TEAG	
UCP	http://www.cbqf.esb.ucp.pt/en/cbqf-projects?nid=16582&token=b3186e0959b56733c735cf5d71741813





Annex 6: Background to the TRUE-project

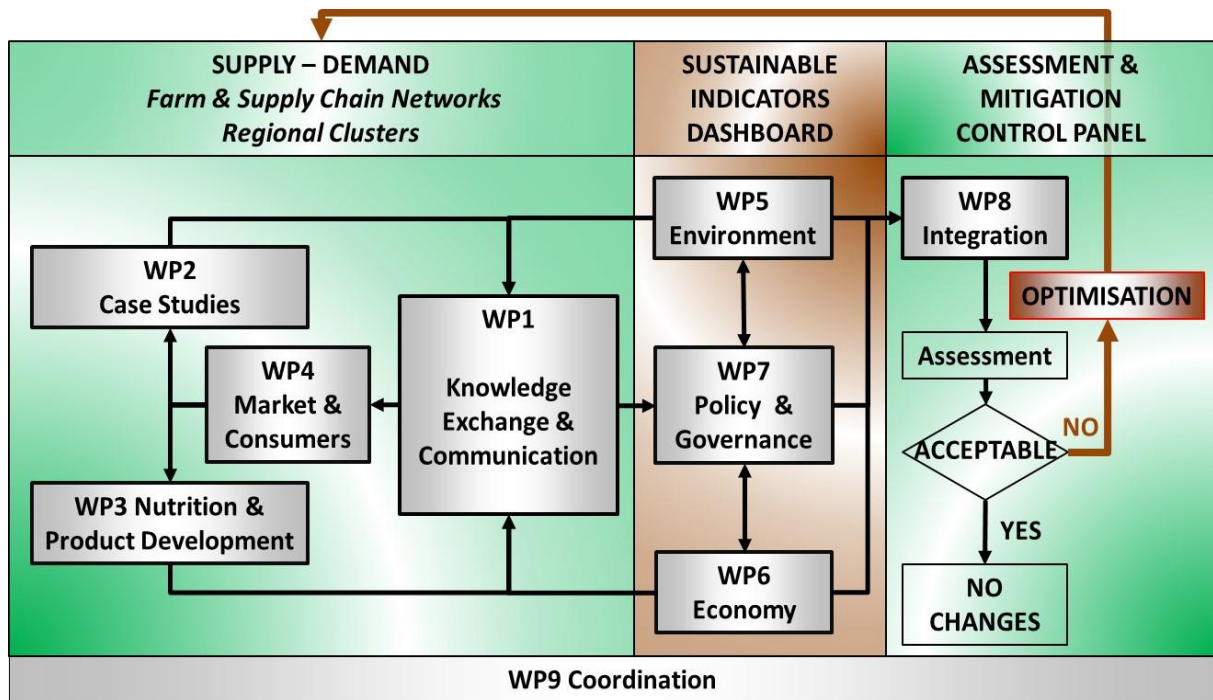
Executive Summary

TRUE's perspective is that the scientific knowledge, capacities and societal desire for legume supported systems exist, but that practical co-innovation to realise transition paths have yet to be achieved. TRUE presents 9 Work Packages (WPs), supported by an *Intercontinental Scientific Advisory Board*. Collectively, these elements present a strategic and gender-balanced work-plan through which the role of legumes in determining 'three pillars of sustainability' – 'environment', 'economics' and 'society' – may be best resolved. TRUE realises a genuine multi-actor approach, the basis for which are three *Regional Clusters* managed by WP1 ('*Knowledge Exchange and Communication*', University of Hohenheim, Germany), that span the main pedo-climatic regions of Europe, designated here as *Continental*, *Mediterranean* and *Atlantic*, and facilitate the alignment of stakeholders' knowledge across a suite of 24 Case Studies. The Case Studies are managed by partners within WPs 2-4 comprising 'Case Studies' (incorporating the project database and *Data Management Plan*), '*Nutrition and Product Development*', and '*Markets and Consumers*'. These are led by the Agricultural University of Athens (Greece), Universidade Catolica Portuguesa (Portugal) and the Institute for Food Studies & Agro-Industrial Development (Denmark), respectively. This combination of reflective dialogue (WP1), and novel legume-based approaches (WP2-4) will supply hitherto unparalleled datasets for the '*sustainability WPs*', WPs 5-7 for '*Environment*', '*Economics*' and '*Policy and Governance*'. These are led by greenhouse gas specialists at Trinity College Dublin (Ireland; in close partnership with Life Cycle Analysis specialists at Bangor University, UK), Scotland's Rural College (in close partnership with University of Hohenheim), and the Environmental and Social Science Research Group (Hungary), in association with Coventry University, UK, respectively. These *Pillar WPs* use progressive statistical, mathematical and policy modelling approaches to characterise current legume supported systems and identify those management strategies which may achieve sustainable states. A *key feature* is that TRUE will identify key *Sustainable Development Indicators* (SDIs) for legume-supported systems, and thresholds (or goals) to which each SDI should aim. Data from the *foundation WPs* (1-4), to and between the *Pillar WPs* (5-7), will be resolved by WP8, '*Transition Design*', using machine-learning approaches (e.g. *Knowledge Discovery in Databases*), allied with *DEX* (*Decision Expert*) methodology to enable the mapping of existing knowledge and experiences. Co-ordination is managed by a team of highly experienced senior staff and project managers based in The Agroecology Group, a Sub-group of Ecological Sciences within The James Hutton Institute.



Work-package structure

The flow of information and knowledge in TRUE, from the definition of the 24 case studies (left), quantification of sustainability (centre) and synthesis and decision support (right).





Project partners

No	Participant organisation name (and acronym)	Country	Organisation Type
1 (C*)	The James Hutton Institute (JHI)	UK	RTO
2	Coventry University (CU)	UK	University
3	Stockbridge Technology Centre (STC)	UK	SME
4	Scotland's Rural College (SRUC)	UK	HEI
5	Kenya Forestry Research Institute (KEFRI)	Kenya	RTO
6	Universidade Catolica Portuguesa (UCP)	Portugal	University
7	Universität Hohenheim (UHOH)	Germany	University
8	Agricultural University of Athens (AUA)	Greece	University
9	IFAU APS (IFAU)	Denmark	SME
10	Regionalna Razvojna Agencija Medimurje (REDEA)	Croatia	Development Agency
11	Bangor University (BU)	UK	University
12	Trinity College Dublin (TCD)	Ireland	University
13	Processors and Growers Research Organisation (PGRO)	UK	SME
14	Institut Jozef Stefan (JSI)	Slovenia	HEI
15	IGV Institut Fur Getreideverarbeitung GmbH (IGV)	Germany	Commercial SME
16	ESSRG Kft (ESSRG)	Hungary	SME
17	Agri Kulti Kft (AK)	Hungary	SME
18	Alfred-Wegener-Institut (AWI)	Germany	RTO
19	Slow Food Deutschland e.V. (SF)	Germany	Social Enterprise
20	Arbikie Distilling Ltd (ADL)	UK	SME
21	Agriculture And Food Development Authority (TEAG)	Ireland	RTO
22	Sociedade Agrícola do Freixo do Meio, Lda (FDM)	Portugal	SME
23	Eurest - Sociedade Europeia De Restaurantes Lda (EUR)	Portugal	Commercial Enterprise
24	Solintagro SL (SOL)	Spain	SME
25	Public Institution Development of the Medimurje County (PIRED)	Croatia	Development Agency

*Coordinating institution





Objectives

Objective 1: Facilitate knowledge exchange (UHOH, WP1)

- *Develop a blueprint for co-production of knowledge*

Objective 2: Identify factors that contribute to successful transitions (AUA, WP2)

- *Relevant and meaningful Sustainable Development Indicators (SDIs)*

Objective 3: Develop novel food and non-food uses (UCP, WP3)

- *Develop appropriate food and feed products for regions/cropping systems*

Objective 4: Investigate international markets and trade (IFAU, WP4)

- *Publish guidelines of legume consumption for employment and economic growth*
- *EU infrastructure-map for processing and trading*

Objective 5: Inventory data on the environmental intensity of production (TCD, WP5)

- *Life Cycle Analyses (LCA) -novel legumes rotations and diet change*

Objective 6: Economic performance - different cropping systems (SRUC & UHOH, WP6)

- *Accounting yield and price risks of legume-based cropping systems*

Objective 7: Enable policies, legislation and regulatory systems (ESSRG, WP7)

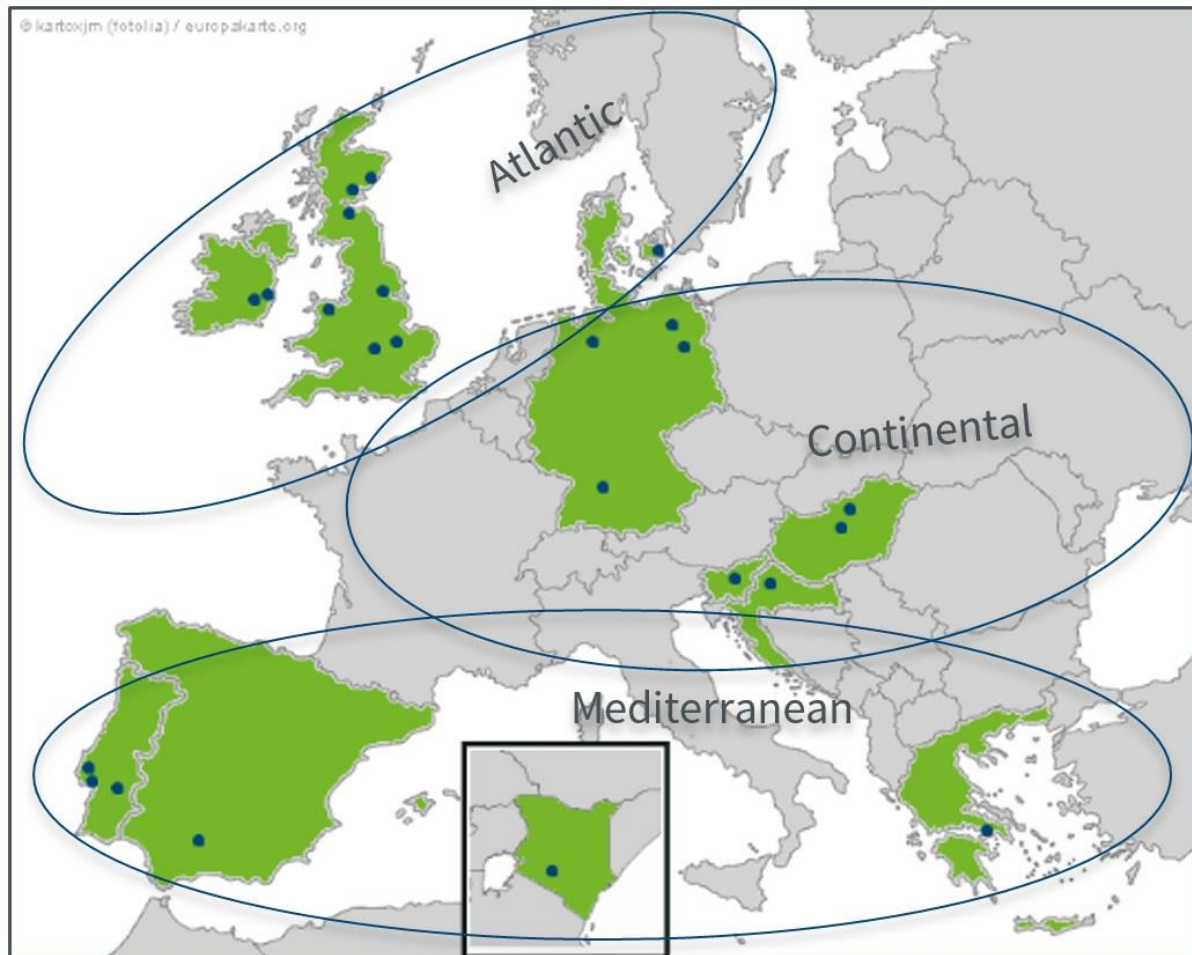
- *EU-policy linkages (on nutrition) to inform product development/uptake*

Objective 8: Develop decision support tools: growers to policymakers (JSI, WP8)

- *User-friendly decision support tools to harmonise sustainability pillars*



Legume Innovation Networks



Knowledge Exchange and Communication (WP1) events include three TRUE European Legume Innovation Networks (E-LINs), and these engage multi-stakeholders in a series of focused workshops. The E-LINs span three major pedoclimatic regions of Europe illustrated above within the ellipsoids for Continental, Mediterranean and Atlantic zones.





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Disclaimer

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Also available online at: www.true-project.eu.

