

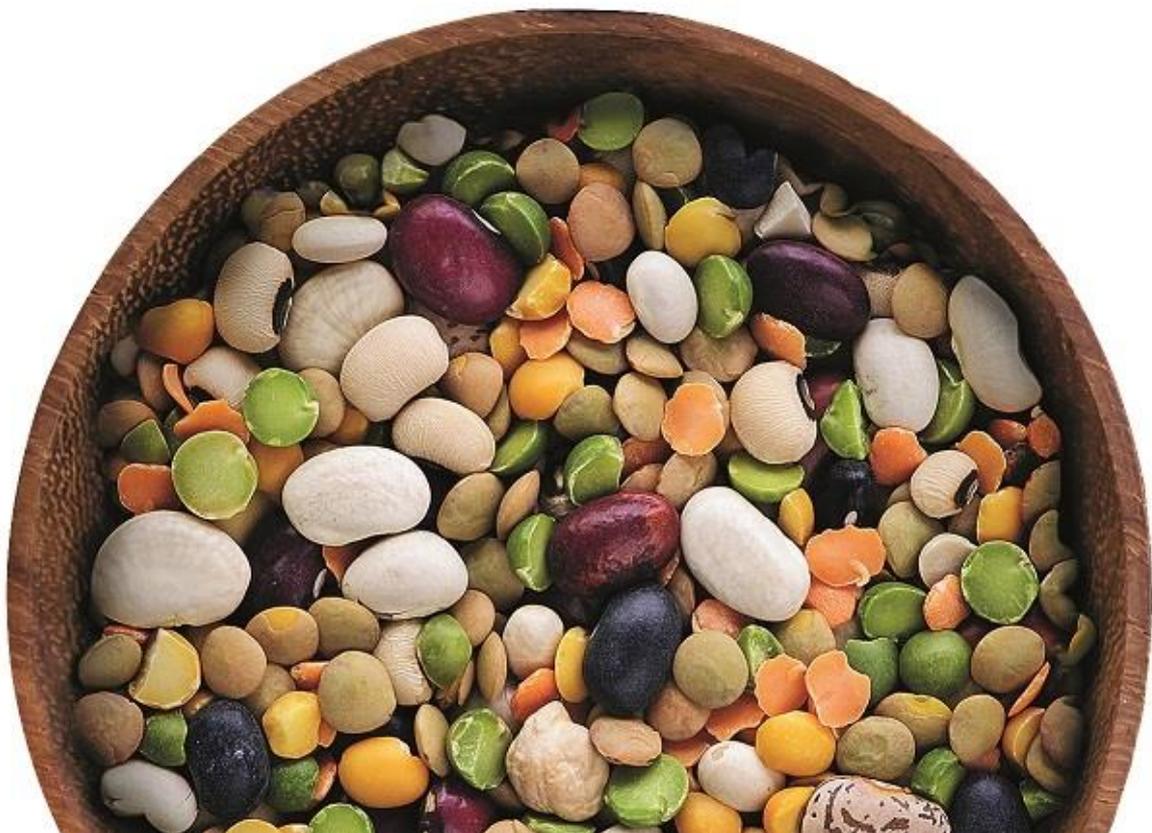


TRansition paths to sUustainable
legume-based systems in Europe

TRUE Annual Activity Plan, Year 2

Deliverable 9.4 (D52)

Dr Pietro Iannetta (JHI) – TRUE Coordinator
May 9th, 2018





Deliverable Description & Contributors

- Due date: 30th April 2018
 - Actual submission date: 9th May 2018
 - Project start date: 1st April 2017
 - Duration: 48 months
 - Work package: Coordination (WP9)
 - Work package leader: Pietro P.M. Iannetta (JHI)
 - Deliverable Title: TRUE Annual Activity Plan – Year 2
 - Nature of deliverable: Report
 - Dissemination level: PU, Public
-
- **Deliverable description:** This plan will formalise specific operations (meetings and agendas), at WP and sub-WP level for the following 12 months. The output will be formalised *via* the project workspace (SharePoint) and associated project management software. The plan will identify and facilitate the necessary co-ordination to help ensure the timely delivery and success of linked project activities and meetings or workshops. This plan will also help inform the framework of the DMP (D9.2).
-
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Year 2 Deliverables

All Year 1 Deliverables have been submitted to time, and Year 2 of the project will focus on the following Deliverables.

Table 1. List of Deliverables scheduled to be submitted during Year 2 of the project.

N°.	N° in Work Package	Title	Lead Beneficiary	Type	Dissemination Level	Original Estimated Delivery Date (project month)
D52	D9.4	Annual activity plan - Year II	JHI	Report	Public	13
D25	D4.3	Report: public and private procurement	IFAU	Report	Public	16*
D23	D4.1	Map of legume food supply chains and trade	IFAU	Report	Public	18*
D24	D4.2	Outline business plans/cases	IFAU	Report	Public	18*
D13	D2.3	Submit DMP, database populated - update for Year II	AUA	Report	Confidential	18
D41	D7.2	Co-production of the policy assessment	ESSRG	Report	Public	20
D18	D3.1	Data for Life Cycle Analysis proof of concept	UCP	Report	Public	20
D44	D8.1	Conceptual model for system evaluation	JSI	Report	Public	24
D26	D4.4	Policy Brief: Green Public Procurement	IFAU	Report	Public	24*
D9	D1.9	Practice Abstracts I	UHOH	Report	Public	24
D27	D4.5	Report: SDIs for quality chains	IFAU	Report	Public	24
D28	D4.6	Report: practices for commercialisation	IFAU	Report	Public	24*
D5	D1.5	Scientific, practice and policy publications - Year II	UHOH	Report	Public	24
D19	D3.2	Scope licensing & patent filing	IGV	Other	Confidential	24

* For new estimated delivery dates, see Table 2



Table 2. Deliverables Gantt chart where green bar endpoints denote the end of month deadline for submission of Deliverables.

Year	2018										2019		
Month	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
Project month	13	14	15	16	17	18	19	20	21	22	23	24	
Year 2 Deliverables													
D52, Annual activity plan - Year II (JHI)	[Green bar from April 13 to April 14]												
D25, Report: public and private procurement (IFAU)	[Green bar from April 13 to August 17]												
D23, Map of legume food supply chains and trade (IFAU)	[Green bar from April 13 to September 18]												
D24, Outline business plans/cases (IFAU)	[Green bar from April 13 to September 18]												
D13, Submit DMP, database populated - update for Year II (AUA)	[Green bar from April 13 to September 18]												
D41, Co-production of the policy assessment (ESSRG)	[Green bar from April 13 to November 21]												
D18, Data for Life Cycle Analysis proof of concept (UCP)	[Green bar from April 13 to November 21]												
Periodic Report I - to the end of Sept.'18	[Red bar from April 13 to September 18]												
D44, Conceptual model for system evaluation (JSI)	[Green bar from April 13 to March 24]												
D26, Policy Brief: Green Public Procurement (IFAU)*	[Green bar from April 13 to March 24]												
D9, Practice Abstracts I (UHOH)	[Green bar from April 13 to March 24]												
D27, Report: SDIs for quality chains (IFAU)*	[Green bar from April 13 to March 24]												
D28, Report: practices for commercialisation (IFAU)	[Green bar from April 13 to March 24]												
D5, Scientific, practice and policy publications - Year II (UHOH)	[Green bar from April 13 to March 24]												
D19, Scope licensing & patent filing (IGV)	[Green bar from April 13 to March 24]												

*New estimated Delivery Dates: Project Month M30



Annual Activity Plan – Year II (D52/D9.4, JHI)

Reported here in this document.

Report on Public and Private Procurement (D25/D4.3, IFAU)

This will report on the market-pull for legumes in the food service market compiled from findings about supply chains and entry points for legumes in the public and private food service market including actions that promote the use of legumes in food service outlets. The work builds on testing of legume based menus in Portugal and innovative uses of legumes derived from WP3. The report will be made public through the TRUE website.

Map of Legume Food Supply Chains and Trade (D23/D4.1, IFAU)

This Deliverable will report on the EU food market pull for legumes, including a map of the infrastructure for processing, trade and consumer preferences. Input data will include quality chain prices of products from farm to retail markets. This report will be made public through the TRUE website.

Outline Business Plans/Cases (D24/D2.3, IFAU)

This report will compile business cases. This is to be elaborated by IFAU, IGV, KEFRI and JHI: with respect to understanding the business case for diets and environmental impacts as informed by the LCA in WP5. This report will be made public through the TRUE website.

Update DMP, Database Populated (D13/D2.3, AUA)

From month 6, and annually thereafter for years 2 and 3, a Data Management Plan (DMP) will be drafted to ensure the capture of all data set types and in forms that ensure capture of explanatory metadata to ensure long-term utility of the information. The data will encompass a library of Standard Operating Procedures (SOPs) for key techniques and includes historical datasets and other databases as appropriate including data from other projects - Legume Futures, LegSA, Eurolegume, Legato, Protein2Food. Data acquisition extends to provision of published outputs be they meeting abstracts, data highlights and key findings including images and video shorts etc. The year 4 DMP will fully establish the TRUE project 'data-legacy handling' strategy which will extend beyond the life of the project.

Co-Production of the Policy Assessment (D41/D7.2, ESSRG)

A report on a critical analysis of existing policies and governance solutions for legume supported systems' shall be generated by a combination of systematic review and interview with key stakeholders - the latter taking place in the context of shared visits to favourable Case Studies in various agroecological systems across EU regions. The output will facilitate the generation of an analytical framework to determine how actual policies and governance solutions are enabling or limiting legume production. This report will be made public through the TRUE website.



Data for Life Cycle Analysis Proof of Concept (D18/D3.1, UCP)

Nutritional profile data for grain legumes will be gathered and provided for the Life Cycle Analysis proof of concept (WP5). Profiling will include macro- and micro-nutrients and prebiotic properties (of selected legumes). Data will also help identify the relative suitability, and trade-offs of different legume species for food- and feed-applications. This report will be made public through the TRUE website.

Conceptual Model for System Evaluation (D44/D8.1, JSI)

This will describe key design criteria for the integrated decision-based model which will be used to assess the sustainability of legume systems. This prototype model will provide a framework upon which project partners may summarise their data and knowledge to help identify the Sustainability Indicators, and their interrelation.

Policy Brief: Green Public Procurement (D26/D4.4, IFAU)

A policy brief on “Green public procurement” shall be developed from two sub-deliverables informed by an investigation of food service markets and exploration for the role of public institutions and chain actors in the private sector in transitions to legume supported food systems. This approach shall also assess customer responses to legumes as a mainstream protein source. The two supporting sub-deliverables to the policy brief will be: 1) the “Catalogue of legume based products”, which are used in professional kitchens (and which will also inform the content of the Innovation Catalogue, D3.5); and, 2) the report, ‘The potential market pull for legumes in the food service market’, which shall also include a section about customer responses to legume-based menus. This report will be made public through the TRUE website.

Practice Abstracts I (D9/D1.9, UHOH)

As a requirement of multi-actor approach, this first milestone for these products aims to deliver the first batch of formalised 'Practice Abstracts'. These will be delivered in the EIP common format (as an Excel file), and shall turn innovative knowledge resulting from the project activities into accessible easy-to-use material for end-users. The practical knowledge will be described in simple terms, easily understood by lay-persons and/or specific stakeholders. In total, we estimate conservatively that there will be a minimum total of 36 Practice Abstracts over the course of the project - with 18 abstracts to be delivered by month 24. These abstracts will be made public through the TRUE website.

Reports on SDIs for Quality Chains (D27/D4.5, IFAU)

A report on the most applicable, ‘Sustainability indicators for legume supported food and feed systems’ shall be drafted with input from earlier activities in WP4. This will be iterated with data from the other WPs to help develop ‘transition to sustainability’ models (WP8). This report will be made public through the TRUE website.



Reports on Practices for Commercialisation (D28/D4.6, IFAU)

A guidance document on 'Best practices for commercialisation of legumes' will be targeted for delivery to business stakeholders (and policy makers), as a synthesis from the more broad and detailed D4.5 report (on 'Sustainability indicators for legume supported food and feed systems'). This report will be made public through the TRUE website.

Scientific, Practice and Policy Publications – Year II (D5/D1.5, UHOH)

Annually, data and key outputs/deliverables will be 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 policy-makers at regional, national and EU level. This report will be made public through the TRUE website.

Scope Licencing & Patent Filing (D19/D3.2, IGV)

This report will detail the findings of a scoping exercise, which identifies the best routes to commercial exploitation of methods tested and/or developed, also for novel products generated for human, animal and aquaculture markets.

Year 2 Milestones

Briefings on the 3 Regional Clusters

Table 3. The milestone scheduled to be submitted during Year 2 of the TRUE project.

No.	Relative Number in WP	Title	Lead Contributor	Due Date
15	MS7.2	Briefings on the 3 Regional Clusters	ESSRG	August, 1 st 2018



European Legume Innovation Networks (ELINs)

Table 4. Details of which partners will host the various ELIN workshops, plus where and when the ELINs shall be held. The light-green shaded rows denoting ELINs which have already been delivered.

ELIN	Project Year	Host Beneficiary	Main Organiser(s)	Place	Date
Atlantic	1	PGRO	Roger/Pete	Peterborough, UK	13-14/12/17
	2	IFAU	Karen	Denmark	Nov/Dec'18
	3	Teagasc	Michael/Dan	Ireland	Oct/Nov'19
Continental	1	UHOH	Henrik	Stuttgart, Germany	21-22/11/17
	2	ESSRG & Agri Kulti	Bálint/Eszter & Gábor/Attila	Budapest, Hungary	11-14 Sept'18
	3	JSI	Marko	Slovenia	End Aug'19
Mediterranean	2	AUA	Georgia	Athens, Greece	20/04/18
	3	UCP	Marta	Portugal	June/July'19
	4	Solintagro	Diego/Eleonora	Spain	June/July'20
Combined	4	TRUE	Pete/Fanny	Scotland House, Brussels (TBC) ¹	2020/21

¹ TRUE and LegValue are in discussion to deliver the Objective of 'Pulse Europe' as a joint venture and at a joint meeting in Brussels. This may combine the final General Assembly meetings of both projects in a single event.



Atlantic ELIN (A-LIN) workshops

Year 1

Legume markets and policies in the UK, sustainability indicators (UK)

This workshop has already taken place, and the workshop report is being drafted and will be available on-line soon at <https://www.true-project.eu/lin-workshops/>.

Year 2

Processing & new markets (DK)

The second Atlantic LIN (A-LIN) will take place in Denmark in 2018 and will be organised by IFAU. While the location has been agreed, dates for the event still remained to be decided. Although weeks 39, 46, 47, 48 and 49 (November /and first week of December) have been suggested. Further discussion will take place to finalise the dates and format of the workshop in the next few weeks.

Year 3

Feed qualities (IE)

Exact focus is to be determined, though it is anticipated there will be a focus on pasture-legumes and animal (bovine) feeding.



Continental ELIN (C-LIN) workshops

Year 1

Legume Demonstration Networks, legume markets and policies, sustainability indicators (DE)

Completed workshop report is available on-line [here](#).

Year 2

Consumers' perspective (HU)

The second Continental LIN (C-LIN) will take place in Hungary and is being organised by Agri-Kulti and ESSRG on September 11th to 14th. The workshop will focus on legumes from the consumers' perspective with 1.5 days of conference/workshop and a day reserved for a field trip outside Budapest. The organising partners are considering the following sessions:

- Small Scale Production;
- Processing Products and Product Development;
- Consumption;
- Policy with focus on small scale product, public catering and quality assurance.

Year 3

Machinery, precision agriculture, sustainable and agro-bio-technology (SI)

Exact focus is still to be determined, although it is anticipated that there will be a focus on technical aspects of legume crop production (*e.g.* soil management, crop protection, harvesting, post-harvest operations, storage, processing and retailing) that will be assessed through the sustainability point of view.



Mediterranean ELIN (M-LIN) workshops

Year 2

Legume markets and policies in Greece, sustainability indicators (GR)

This workshop has already taken place, and the workshop report is being drafted and will be available on-line soon at <https://www.true-project.eu/lin-workshops/>.

Year 3

Sustainable-consumption and -diets (PT)

The second Mediterranean LIN (M-LIN) will take place in Portugal in April 2019. Specific dates and format are still to be determined.

Year 4

Production (TBC)

Plans for the Year 4 ELIN workshop will be discussed at the end of year 2.

Legume Innovation Network (LIN) workshop data/reports

The reports detailing discussions and recommendations of the first two ELIN workshops have been collated and will be received to the TRUE database shortly.

At the time of reporting on this Deliverable, the last of the Year 1 LINs (for the Mediterranean regions), had just taken place: since the hosts of this wanted to combine the LIN with their organisation of the GA. Therefore, this final Year 1 LIN report should be made available on the project website by the **END OF MAY'18**.



General Assemblies

Table 5. List of General Assembly meetings by project year, with the location, main organiser (host) and dates noted.

Year	Title	Location	Main Organiser	Date
2017	Kick-off meeting (1st General Assembly)	Edinburgh, UK	JHI	18-21/04/17
2018	2 nd General Assembly	Athens, GR	AUA	16-19/04/18
2019	3 rd General Assembly	Porto, PT	UCP	06/19 (TBC)
2020	4 th General Assembly	Stuttgart, DE	UHOH	06/20 (TBC)
2021	Final Meeting & launch of 'Pulse Europe'	Brussels, BE	JHI	03/21 (TBC)

First Periodic Report

In September this year, TRUE will deliver the first Periodic Report of project activities and achievements. While the report collates such information up to the end of September 2018, we have until the end of November to submit the Periodic Report to the European Commission (EC).

Critically, successful completion of the Periodic Report review is essential to ensure the continued support of the TRUE project by the European Commission. Towards that end, the Work Package-, Case Study-, KE-Update Forms plus data for the TRUE database play an important part in being able to deliver a successful Periodic Report.

Work Package-, Case Study- and Knowledge Exchange-Reporting

These templates for Work Package Leaders, Case Study Leaders and all-partners Knowledge Exchange (KE) reporting have been prepared and are available on the TRUE SharePoint. The aim of these templates is to ease completion of the Periodic Reporting *and* to help ensure robust management and flow of data. Several types of data gathering exercises are necessary and outlined below.

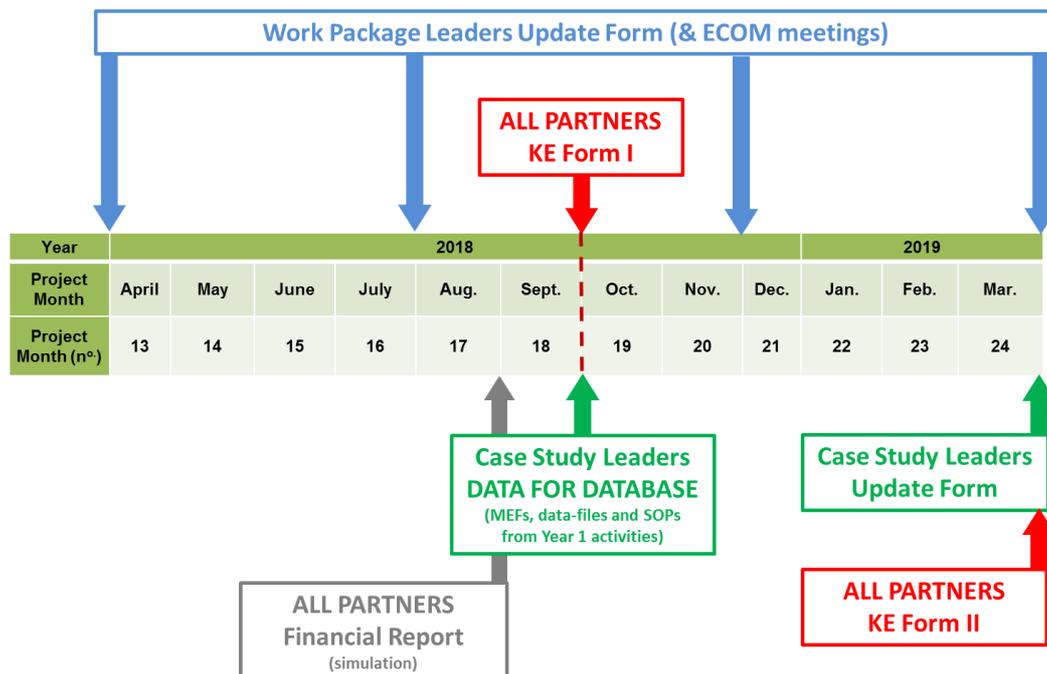


Figure 1. A summary of the key deadlines for submission of the various update- and data-forms for the forthcoming project year: to ensure that all forms are deposited BEFORE the specific deadlines indicated. An email will follow (by the end of May) from Fanny Tran (Project Facilitator) providing a link to each of the four folders on the TRUE SharePoint where the forms should be uploaded. The separate folders will be for: **1)** Work Package Leaders Update Forms, four times per year; **2)** the All Partners KE Forms, annually mid-project year stage (end of Sept.); **3)** data, and including MEFs (Metadata Entry Forms) and SOPs (Standard Operating Procedures, or methods), annually; and **4)** Case Study Leaders Update Forms, annually. Also shown is the deadline (end of August) for the simulation of Financial Reporting which is planned. The dashed red-line highlights the deadline to submit data for the Periodic Report.



Work Package Leaders Update Forms

4 MONTHLY

A work package update report template has been circulated to Work Package Leaders, which is to be returned **every 4 months**, just ahead of the Executive Committee (ECOM) e-meetings, or face-to-face ECOM at the General Assemblies. These are intended to be **brief** documents to summarise progress in broad terms, and to highlight the RAG (Red, Amber, Green) status on Work Package Milestones and Deliverables.

Case Study Leaders Update Forms

ANNUALLY

Specific templates are available for each Case Study leader to use for reporting. These reports should be **brief** and are aimed to summarise Case Study activities and RAG status on progress submitted **at the end of each project year (by March 31st, or earlier, annually)**. The report should declare trials to be carried out that year, and so the data expected by the database manager.

Case Study input to 'Decision Support System' (WP8) design

AS REQUESTED by WP8 (3 stages)

Case Studies should input to the Decision Support System (DSS) as directed by WP8 researchers. Guidelines and an initial data template for this exercise have been designed by Geoff Squire (JHI) et al., and are available on the project SharePoint site. The initial template and a guideline document for population were circulated to all Case Study Leaders. The guidelines detail a specific 3 stage process to capture information from the Case Studies and inform the design of the DSS. This initiative is led by JSI and JHI, and Stage I of the process is currently underway, 17 of 24 Case Studies have reported. For a small number, three in the first instance, Case Study leaders will be approached by WP8 staff to provide information for Stages II and III (the whole supply chain).

All partners KE (Knowledge Exchange) Forms

TWICE ANNUALLY

Specific templates have been circulated for each partner to use for KE reporting. Partners will be directed to a specific folder on the TRUE SharePoint where they will find a new template, which includes KE-Reporting Guidelines. These forms should be updated twice annually, at the 6 and 12 month stages in every project year.



Data Provision for the TRUE Database

ANNUALLY

Case Study or Work Package data gathered in any one project year should be declared and submitted to the TRUE SharePoint site by the endpoints described in Figure 1 above. It is assumed that (ultimately) WP Leaders have datasets to declare in their Work Package Update Forms for all years of the project. However, in each Update only datasets for the most-recent (*i.e.* last) project year should be described. Similarly, all Case Study Update Forms should specify (in the dedicated table) the project year's data in which data will be gathered. However, a description of the data generated only needs to be provided in year immediately *after* that data was generated. **For Work Packages and Case Studies, data will be expected as soon as possible, and no later than Sept. 30th, in the year immediately after each data-gathering year.** In the last year of the project, data will be expected no later than March, 31st 2021, and data should be provided as follows.

- 1) **Metadata Entry Form (MEF) and Trial Data:** Work Package and Case Study Leaders have been given access to a MEF or template that captures experimental metadata. Access™ and Word forms are provided, though the former (Access™ form) is preferred and recommended. A single MEF will accompany a single dataset for each Case Study or Work Package activity. Together a single MEF and data file for each individual trial should be uploaded to the SharePoint site for later submission to the TRUE database.
- 2) **Specific Methods or SOPs (Standard Operating Procedures),** used to gather the data should also be provided. A SOP-template containing example content can be accessed on the TRUE SharePoint site. It is expected that some of the SOPs will be suitable to establish Practice Abstracts.

Practice Abstracts. TRUE to provide at least 36 Abstracts, with 18 delivered at the 18 and 36 month Periodic Reporting stages. Assuming one Abstract from each Work Package and Case Study 32 (8 + 24, respectively) may be achieved. Though the full list will be ascertained *via* consultations led by WP1 (UHOH), and by the **END OF SEPT.'18**

The TRUE 'Impact Strategy and Legacy Plan'

Collectively, the Work Package, Case Study and KE Forms are important documents and they have been carefully designed to provide information and data which has been either specifically requested by the EC for Periodic Reports, or to inform various elements of the TRUE work-plan including data-flow and so development of the Data Management Plan (DMP) and Decision Support System tools, and the latter with respect to the Sustainable Development Goals.

In addition, the content of the Work Package and Case Study Update Forms are also extended to capture key innovations that are being developed and their TRL (Technology Readiness Level). In time, and *via* the ECOM in the first instance, the pathways to impact for each innovation must also be discerned and reported.



Periodic Report.

The Periodic Report comprises **three** main components, PART A and PART B and the Financial Report. These are described briefly below.

PART A

- a. Drawing upon the technical report narrative of PART B (see below), there will also be summaries of the implementation and social impact. This information is uploaded to the continuous reporting modules contained within the EU Participants' Portal (ECAS), SyGMA system. These summaries will quickly appear on the [CORDIS](#) site. Two months after submission of the full technical report (see PART B below), it will also be made public at the same location.

To complete this section of the report, we will need information on the following which will be gathered from the Work Package-, Case Study- and KE-Update Forms.

- i. Summary for publication**
 1. Context and overall objectives of the project
 2. Work performed - project outset to reporting period end
 3. Progress beyond the state of the art (achieved or anticipated)
- ii. Deliverables**
- iii. Milestones**
- iv. Ethical issues**
- v. Critical implementation risks and mitigation actions**
 1. Foreseen
 2. Unforeseen
 3. States of play for risk mitigation
- vi. Dissemination and exploitation²**
 1. Scientific publications
 2. Dissemination and communication activities

² This information will be collated from the "KE Recording Form" returned every 6 months.



vii. **Intellectual Property Rights³**

1. Details on either new 'Patents', 'Trademarks', 'Registered design', 'Utility model' and 'Other'

viii. **Innovation³**

Numbers are required for

1. 'prototypes', 'testing activities' and 'clinical trials'; and,
2. new 'products or services', 'processes' or ' methods'

ix. **Impact on SMEs⁴**

x. **Databased Information³**

xi. **Gender of researchers and other workforce involved in the project⁵**

PART B

Technical Report Narrative. The Period Report Template can be found on-line. Pages 1-17 are generated by inputs made on ECAS/SyGMA system (as outlines for Part A). **For pages 18 onwards the Project Facilitator (Mrs Fanny Tran, JHI) will circulate a Periodic Report Template for each Work Package leader to populate.**

Financial Report

It is anticipated that this will be relatively straight-forward for large beneficiaries, and other partners who have already complied financial reports as part of an EU funded H2020 project. However, beneficiaries who are new to EU H2020 project reporting may need some assistance. Towards mitigating any hiatus in collating financial information, a 'dry-run' of the financial reporting process will be carried out. Requests to collate information as part of the 'dry run' will be sent out in July. This shall comprise an Excel file template to capture partner financial data and a guidelines document for its population. **These will be circulated with a view to submission of data for all partners in August'18.** This exercise will be directed by the Project Facilitator (Mrs Fanny Tran, JHI).

³ **This information will be collated from the Update Forms** to be completed and uploaded to the SharePoint by Work Package Leaders before each Executive Committee meeting, and by Case Study Leaders, at the end of each project year (31st March).

⁴ **This data is required for SMEs only** and will be requested by the Project Facilitator ahead of the deadline.

⁵ **This data is required for all partners** and a separate form will be circulated to each beneficiary by the Project Facilitator ahead of the deadline.



Disclaimer

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Annex I – Background to the TRUE project

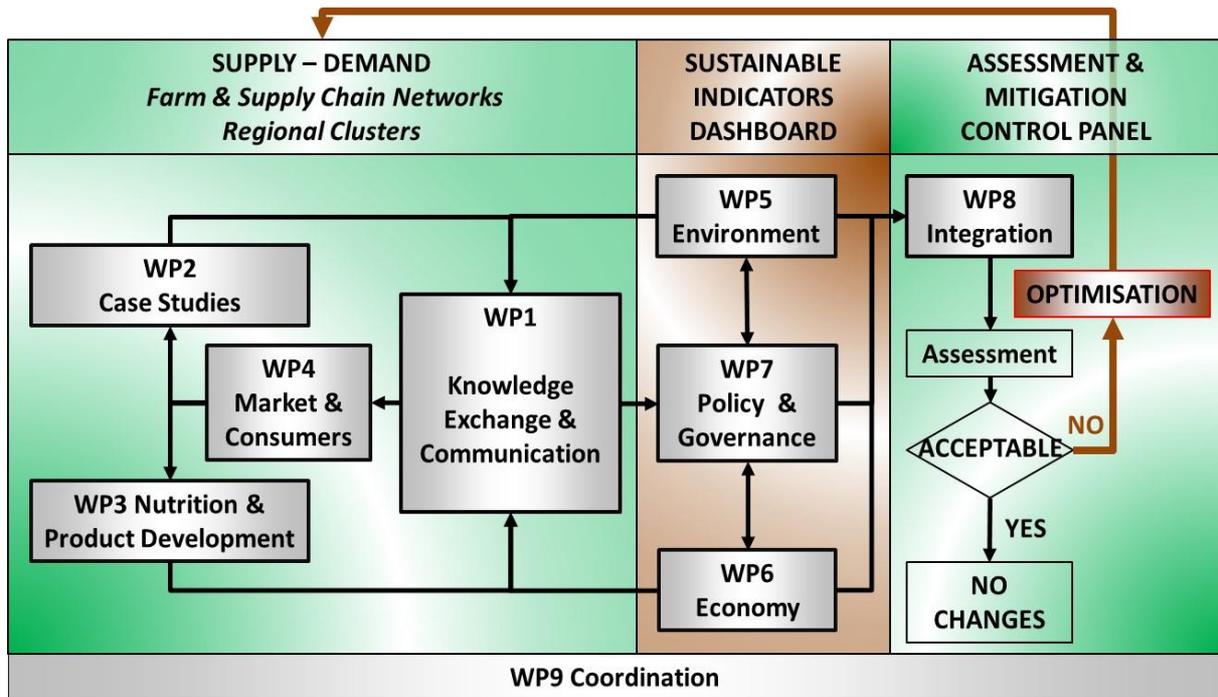
Executive Summary - Abbreviated

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 a *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 supplies 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 - Diagram

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



Project Partners - Table

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	Universitaet 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 Agricola do Freixo do Meio, Lda (FDM)	Portugal	SME
23	Eurest -Sociedade Europeia De Restaurantes Lda (EUR)	Portugal	Commercial Enterprise
24	Solintago SL (SOL)	Spain	SME

*Coordinating institution



Objectives - Abbreviated

Objective 1: Facilitate knowledge exchange (UHOH, WP1)

- *Develop a blue-print 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 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*

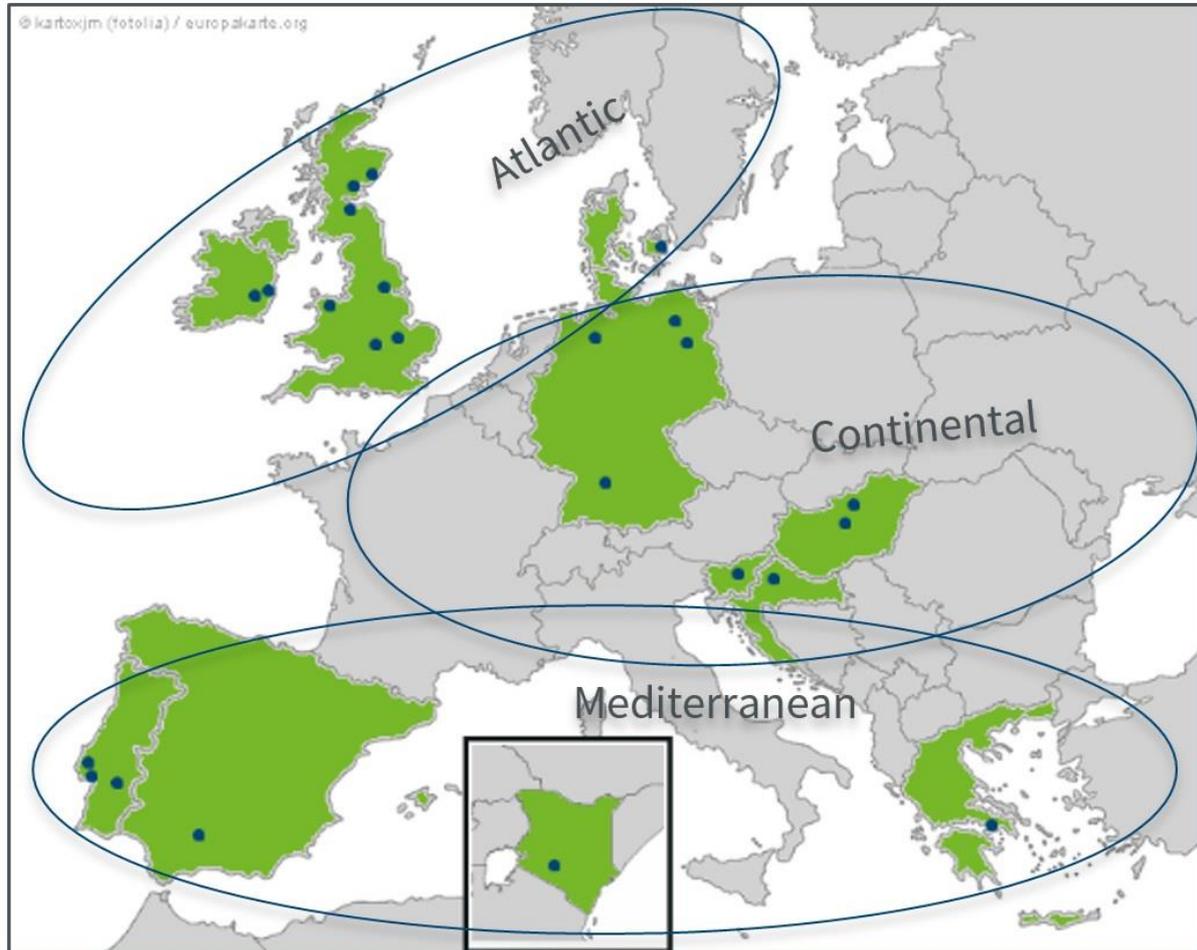
Objective 7: Enable policies, legislation and regulatory systems (ESSRG, WP7)

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

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

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

Regional Cluster & Case Studies – Diagrams



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