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Preparing the ground for healthy soils:
Building capacities for engagement, outreach and knowledge
PREPSOIL – 2022-2025

PREPSOIL DELIVERABLE

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PRESOIL DATA MANAGEMENT PLAN - DMP

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Revision history

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V0.1	01/12/22	Margrethe Høstgaard	Input from WP leads and deputy leads in Forms
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V.1	31/01/23	Margrethe Høstgaard	Deliverable uploaded to the EU Grant Management Portal

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1. Data summary

The PREPSOIL project is a Collaboration and Support Action (CSA) intended to set the base line for the future goal of 100 Living Labs (LL) to be established under the EU Soil Health Mission. The project is mainly a mapping project including collection of existing data and knowledge regarding soil health in Europe. Thus, the project will be re-using existing data. However, new data collections will also be produced for the use in future LL projects. As part of the implementation, project data from various stakeholders will be gathered and shared within and between various work packages. The data to be uploaded in a repository for open use after the project are for example: 1) a One Stop Shop website with access to a wide collection of links to European soil literacy and teaching materials regarding soil health, 2) a map of Living Labs across Europe and LL model business plans, 3) synthesis of soil needs and drivers of change for different land use types, 4) soil monitoring systems and 5) regional focused strategic research and innovation agenda (SRIA).

The data will be collected/generated and re-used across the different WPs during the project period.
The project is expected to produce both qualitative and quantitative data, including surveys, interviews and workshop/Soil Hub data, maps, videos, etc. (Table 1).

Table 1: Data Produced in the Different WPs

WP	Partner	Data produced & Data type/format	Purpose & use in other WPs	~ SIZE
WP1.2	ACTA	Personal data (name, organisation, field of expertise, e-mail address. The data will be organised in a table with key information on the profile of stakeholders.	All data are collected to help identify relevant stakeholders for the activities planned in PREPSOIL and to coordinate interactions with stakeholders during the project. Data to be used in: WP1, WP2, WP3 (in support to the other WPs), WP4, WP5, WP6	tbc
WP2	WR	Maps on different levels (local, regional, national, European). Opinions obtained by emails. Literature review and collection of all maps available	Soil needs assessment for 21 regions across Member States (MS) and Associated Countries (AC) in Europe divided into different land use types. Data to be used in: WP4 and WP6.	tbc
WP3	TRUST-IT	IP addresses of the prepsoil.eu website visitors. Anonymous navigation data (not tied to their IP address). Personal information of users that provide it via webforms (contact forms, become a soil advocate, recommend a living lab, subscription to the newsletter, soil education with students best practices, additional webforms not yet planned for). The exact personal data provided depends on the specific form,	The PREPSOIL website including the "One Stop Shop" on soil literacy is one of the most important outcomes of the project. IP addresses are collected for security and antispam purposes. Personal information is collected to provide the service requested by the user: sending a contact request; applying as a soil ambassador; recommending a living lab; subscribing to the newsletter. Anonymous navigation data is collected to analyse the behaviour of	A few kilo bytes from the webforms + Up to several gigabytes generated by other WPs – and uploaded to the One-Stop-Shop web-site.

		but it is usually requesting at least the full name and email address of the user submitting, plus topic-specific data, e.g. the address of a living lab or the land-use expertise of a potential soil advocate. Personal information of users that create an account or register to post or comment in the discussion area (not available yet at the time of writing).	visitors on the website and optimise the website to provide relevant content and better user experience. Data to be used in: WP1, WP4, T6.1, T6.2 and after the project used in coming EU soil health projects. Webinar recordings and video interviews from WP1, WP6 will be uploaded on the website. A new list of LL/LH markers and metadata from WP4 for the interactive map to replace the current markers from the SMS project. Profiles, pictures, videos, from T6.1 for communities of practice.	
WP4, T4.1, T4.2, WP3 (website task)	ENoLL	Types and formats Tbc. Information on LL/LH (location, features of aims, types of activities regarding the improvement of soil health, soil use type, types of participants, eventually contact person and website for additional information if agreed). Online questionnaires with usual devices will be developed. An empty excel database might be shared via email for key contributors to add to.	LL mapping information. This work is an essential outcome from the project. The goal is to support the networking activities, and the identification of initiatives all over Europe, the data will be made available and visualized in an interactive virtual atlas. The information is shared with T4.2 Atlas of LLs and LHs – and published at the WP3 project website.	Tbc
WP4.3	ENoLL	Business plans (BPs) for the upscaling of LLs/LHs in different soil use types and socio-economic conditions beyond the lifetime of the mission.	Prepare an inventory of BPs for current soil LLs and LHs. Data to be used in: T3.2 Atlas of LLs and LHs, T4.4 Service package for increased maturity	Tbc
WP4.4	ENoLL	Under T4.4 task leader and contributors are to host 2 workshops (M 12 & 20), the first with mature LLs and the second with potential funders. Notes will be taken during each event and the conversations might be recorded. Post-session surveys will also be sent out to the	Meeting notes and recordings are for the purpose of developing synthesis reports. Surveys are to gather additional feedback and input. All to gather more data to explore development in LL BPs. People are invited to join in workshops, and they will be given feedback from the workshops they participate in. These people will also	Tbc

		attendees. These attendees will be invited to the workshops, so email addresses are collected.	bring in knowledge regarding their living labs, locations, networks, the function they work in, organization etc. Data to be used in: T4.4 Content from the workshops are fed back into T4.1 (information) and T4.3 (businessmodels) and T3.2 (virtual atlas)	
WP5	INRAE	Qualitative data: - T5.1: Data from surveys on soil monitoring and indicators in other EU and national projects, as well as in MS and AC), T5.3, - T5.2: Description of existing Copernicus Land Monitoring Service (CLMS) data and mathematical formulations; Other existing or suggested mathematical formulations; Description of the possible zone to test the deployment of some indicators, - T5.4: Survey on existing capacity building for improved monitoring knowledge base (on Soil Health National Hubs) Quantitative data: - CLMS data and other data (on soil, crops, and climate) from the areas chosen for the deployment of some indicators (T5.2),	To obtain stocktakes on existing initiatives, identify gaps, and assess the deployment of some soil health indicators. Data to be used in: WP6 for capacity building	Qualitative data: "small" size - Quantitative data: "big" size (especially for CLMS Data)
WP5.3	LESS-PROJEKT	Detail Open Land Use 2.0 data from selected pilot region Data about Living Labs, Stakeholder mapping. For OLU 2.0 we have own methodology (https://www.mdpi.com/2073-445X/11/9/1552) ahttps://www.agrihub.cz/ and https://hub4everybody.com/ will be used	Mainly for detail analysis of pilot region. Data to be used in: WP2, WP4, WP5	500 GB - 1 Terra
WP6	SLU	Data will be in survey / qualitative and quantitative information/ format (T6.3); videos/interviews and project descriptions (T6.2, T61), lists of	To connect and promote exemplary education and social initiatives, and soil ambassadors (WP3&6). KPI: +80 grassroot and local initiatives	

		contributors (contact lists) of those taking part in activity 6.1, &.2, &6.3. In some cases data will be anonymised, in other cases consent will besought by individuals/ organisation (related to video interviews)	engaged; +12 events/webinars to promote good practices at EU level. Promote and reward on-going or recent examples of soil education and social innovation in the area of soil health to increase understanding of soils by the public at large. Data to be used in: WP3	
WP7	AU	Organisational data of partner organisations. Personal data of project participants for daily communication and annual meetings. Documents for realisations (contracts etc.) Data for reporting to the EC (financial). Progression data.	Project management. Data is open and accessible to all project partners in all WPs at the PREPSOIL SharePoint, with access only for project partners. This SharePoint is used by all partners to save and exchange data during the project.	2 GB

During the project period, data will be stored on the online PREPSOIL SharePoint with access only to project partners. Copies on local devices will be allowed during processing of the data. Until released in edited and quality assured format on the WP3 PREPSOIL website and on the open repository, it will follow internal host data management and standards (on password protected personal computers or other partner hosted computers in secured sites and local SharePoints with limited access.

Personal data collected from stakeholders, interviews, videos etc. should only be used for stakeholder engagement and should not be shared publicly.

Solicited stakeholders will be asked if they agree to their data being shared with other Horizon Europe funded soil-related research project leaders. However, this sharing will only be done with project leaders who request it and who agree to respect the data management conditions proposed by PREPSOIL (or, in case of modifications, to contact the stakeholders for agreement). Personal opinions should be anonymized.

The appointed PREPSOIL Ethics Advisor will review the main data collections including personal data from the project.

Data quality assurance will be limited to ensuring that the data collected is fit for purpose through the use of templates, interview guides and questionnaires, validating answers (i.e. ensuring that surveys have been completed), and data cleaning.

The size of the data is not yet known, but it is expected to be quite large, as in particular, WP2 and W4 are producing maps as results of their work, and WP6 is producing interviews and videos.

The project will primarily make use of Microsoft Office software for the processing and analysis of data from surveys and interviews and for reports. Maps and videos may use other software and formats. For all data, file formats will be included in the metadata descriptions.

2. Data recommended format

To maximise the dataset interoperability, management and re-use, the PREPSOIL consortium agreed to use, when possible, formats that are non-proprietary, unencrypted, uncompressed and in common usage by the research community. Since there are no unique recommendations on data best formats and neither the selected data repository provide such indication, PREPSOIL Partners have agreed to follow - when possible - the indications of the UK Data Archive, recommended by OpenAIRE, as indicated in Table 2.

Table 2: Data recommended format

Type of data	Recommended formats	Acceptable formats
Tabular data with extensive metadata	• SPSS portable format (.por)	Proprietary formats statistical packages: • SPSS (.sav), • Stata (.dta), • MS Access (.mdb/.accdb)
Tabular data with minimal metadata	• comma-separated values (.csv) • tab-delimited file (.tab)	• delimited text (.txt) with characters not present in data used as delimiters
(column headings, variable names)	• delimited text with SQL data definition statements	• widely-used formats: • MS Excel (.xls/.xlsx), • MS Access (.mdb/.accdb), • dBase (.dbf), • OpenDocument Spreadsheet (.ods)
Textual data	• Rich Text Format (.rtf) • plain text, ASCII (.txt) Adobe Portable Document Format (PDF/A, PDF) (.pdf)	• Hypertext Mark-up Language (.html) • widely-used formats: MS Word (.doc/.docx) • some software-specific formats: NUD*IST, NVivo and ATLAS.ti

Image data	• TIFF 6.0 uncompressed (.tif)	• JPEG (.jpeg, .jpg, .jp2) if original created in this format • GIF (.gif) • TIFF other versions (.tif, .tiff) • RAW image format (.raw) • Photoshop files (.psd) • BMP (.bmp) • PNG (.png)
Audio data	• Free Lossless Audio Codec (FLAC) (.flac)	• MPEG-1 Audio Layer 3 (.mp3) if original created in this format • Audio Interchange File Format (.aif) • Waveform Audio Format (.wav)
Video data	• MPEG-4 (.mp4) • OGG video (.ogv, .ogg) • motion JPEG 2000 (.mj2)	• AVCHD video (.avchd)
Documentation and scripts	• Rich Text Format (.rtf) • PDF/UA, PDF/A or PDF (.pdf) • XHTML or HTML (.xhtml, .htm) • OpenDocument Text (.odt)	• plain text (.txt) • widely-used formats: - MS Word (.doc/.docx), - MS Excel (.xls/.xlsx)

Source: Giulia Campodonico, ENoLL

3. FAIR data

3.1. Making data findable, including provisions for metadata & licensing

The projects chosen repository, ERDA[1], includes the possibility of ascribing a Digital Object Identifier (DOI) to chosen datasets.
Once the data processing is complete, each dataset that is suitable for publication on an open platform, will be assigned a DOI, so that it is findable and persistently citable. No datasets have been publicly shared yet, as most

[1] ERDA or Electronic Research Data Archive at University of Aarhus (AU) is meant for storing, sharing, analysing, and archiving research data. The intended audience is employees, their collaboration partners and students.

have yet to be collected.

If project partners have data ready for public access during the project period, it is possible to use ZENODO. ZENODO is an open repository commissioned by the European Commission, hence making available their outputs from EC-funded project are advised and appreciated by the EC. It has a wide user-base and European projects use this platform to make their outputs there. PREPSOIL has the ZENODO Identifier: 101070045-prepsoil).

Project results (public deliverables, milestone reports) will be published on ZENODO, as well as recordings of webinars and workshops with related materials (upon participants' and speakers' consent). When uploading files on ZENODO, all required fields will be completed including 'Upload type' (for e.g 'Publication/Project deliverable' for deliverables, 'Publication/Project Milestone" for milestones, 'Dataset' for underlying data), full list of 'Authors' with Contributing Authors listed in order at the discretion of the Lead Author (with ORCIDs if available), 'Description', and 'Version'. The following recommended/optional fields will also be completed: 'Funding' (European Commission with grant agreement number), 'Related/alternate identifiers', 'Contributors' and 'Subjects'. All PREPSOIL outputs will have the keywords "PREPSOIL' and "Healthy Soils".

Before uploading data to ZENODO, the dataset must be accepted by the project management team at AU, and following upload, the data will be made visible on the PREPSOIL website.

The final choice of permanent repository for PREPSOIL will be made before the next DMP deliverable in month 18.

The consortium has established a naming convention for project datasets. Aside to the temporarily identified title, shared project datasets name should contain the following items:

- Date yyyymmdd
- A prefix "PREPSOIL" indicating a PREPSOIL dataset
- "WPx" indicating which Work Package the data was produced in
- The title of the dataset
- Versioning number

For instance, a dataset produced in WP6 would be named: 20221118_PREPSOIL_WP6_Workshop_v1.0.
Data versioning will follow the Major.Minor numbering rule, similar to software versioning systems (e.g. v2.1). Major data revision will indicate a change in the formation and/or content of the dataset. Minor revisions will rather involve quality improvement over existing data items. Only minor edits are expected along the project implementation although major revisions are possible beyond the end of the project.

Each dataset will also be annotated with metadata that includes the identifier of the descripted data and that are indexed in a searchable resource to increase data findability. ERDA follows the Data Documentation Initiative (DDI) metadata standards that includes key data documentation such as:

- Creators and affiliations
- Data location and DOI
- Chosen license for data sharing
- Contributors
- Subjects
- Dataset overview incl. variable lists/codebooks
- Methodological information
- Software and tools information
- Date of first version and dates of subsequent changes

Different levels of confidentiality are considered within PREPSOIL:

- Confidential to partner. This option is applied when, regardless of the long-term value and scope for wider use, the dataset contains personal data that cannot be protected once disclosed. These include

among others videos and images collected during the project.

- Confidential to consortium (including EC services). This option is applied for data containing confidential information (e.g. related to personal interviews) or those with no wide-scope of use and long-term value.
- Public. This option is applied to most datasets.

While datasets confidential to partner will be safely stored by the developing partner, all other datasets will be shared via the SharePoint platform or via ERDA.

For the projects chosen repository, ERDA, Creative Commons Licenses is used. Creative Commons licenses give everyone from individual creators to large institutions a standardized way to grant the public permission to use their creative work under copyright law.

3.2. Making data interoperable

The consortium will strive to collect and document the data in a standardized way to ensure that datasets can be correctly understood, interpreted, and re-used. See section 2. Aside from metadata, the datafiles will include relevant templates, surveys, interview guides and codebooks used to generate the data.

Where necessary partners will be asked to provide documentation describing the main variables included in the datasets in order to support the interpretation and re-use. Standard vocabulary will be used for all data types present in the dataset to allow inter-disciplinary interoperability.

The interoperability of data, in particular, is also relevant while guiding the future project regarding LL activities at their initial activities.

3.3. Increasing data re-use

Aside from metadata, the data files will include relevant templates, surveys, interview guides and codebooks used to generate the data. Where necessary partners will be asked to provide readme files.

Public data will be made available for re-use. To avoid any potential doubt, the consortium will attach specific licenses to the deposited data to define all conditions under which the work is provided under either open or restricted access.

In WP5 part of the data is generated from OSM and this data is under Open Data Commons Open Database License (ODbL), which is viral license and any data derived from this has to use this license. Other derived data can be under https://creativecommons.org/licenses/by/4.0/

In WP1 personal data collected for T1.2 will only be used for stakeholder engagement and should not be shared publicly.

Solicited stakeholders will be asked if they agree to their data being shared with other Horizon Europe funded soil-related research project leaders. However, this sharing will only be done with project leaders who request it and who agree to respect the data management conditions proposed by PREPSOIL (or, in case of modifications, to contact the stakeholders for agreement).

Data collected in WP7 cannot be shared, as the data collected as part of the project management is explicitly intended for internal use to the project management and the consortium. Data collected in WP3 will also not be shared externally, as this data consists of contact information of individuals who have signed up for the

newsletter. Most of the data will be made available internally, to partners with confidentiality status of consortium member.

All data will be stored in ERDA as soon as possible, at the latest upon publication of the related public reports and will remain re-usable for a minimum of 10 years.

4. Other research outputs

All known outputs have been included in the main sections of the DMP.

5. Allocation of resources

At this preliminary stage of the project, the only costs foreseen for data management are related to:

- The working time needed to set up and perform the data collection, including synchronisation of devices, and analysis activities.
- The working time to setup local and shared data collection devices/servers.
- The working time needed to write documentation, metadata, etc.
- The working time needed to set up and perform the data collection and analysis activities.
- The working time needed to share relevant data with the future LL projects and any other relevant actor in the development of the future LL projects.
- Writing up of results in open access publications and reports.

Dedicated financial resources have been already allocated in each partner budget for such activities.

Since ERDA is free, no costs are predicted to come from long-term-storage in the repository, however, eventual long-term storage costs can be incurred for data confidential to the single partner.

The project coordinator oversees the DMP from both the scientific and technical perspective. AUs role includes the first version release as well as the regular update.

Validation and registration of datasets and metadata, as well as backing up data for sharing through open access repositories is the responsibility of the partner that generates the data in the WPs.

Each partner will identify a specific responsible person for each dataset. Quality control of these data is the responsibility of the relevant WP leader, supported by the project coordinator.

Each partner should respect the policies set out in this DMP.

6. Data security

As mentioned, partners are responsible for data security and backing up datasets while collecting and processing the data. Generally, local backup system will be guaranteed during the project lifespan.

Once uploaded to ERDA, data will be backed up and stored on internal AU servers with state-of-art data protection software and processes.

7. Ethics

The project consortium fully agrees that the protection of personal data is a priority, and will ensure that all partnership activities, and particularly stakeholders' engagement, dissemination, and communication activities, are conducted in accordance with this EU's General Data Protection Guidelines (GDPR). Further, in case of publication of data, all scientific ethical principles will be respected.

As a rule, the partners will strive to anonymise personal research data before making them openly available, thus fulfilling both the open research data and data protection rules. The partners will also follow the dissemination rules as setup in the Consortium Agreement. Nevertheless, complete anonymization is not always possible, especially in case of raw data, such as taped interviews.

Partners will request informed consent to disseminate data in public reports, communications etc. as well as for long-term storage. At the same time informed consent can never legitimise the use of data in an open access environment considering that the purposes for further use of data are unknown. In such cases data will be kept confidential.

The appointed PREPSOIL Ethics Advisor will review the main data collections including personal data from the project.

8. Other issues

We will not be making use of other national, sectorial or departmental procedures for data management in the CSA.

Annex 1. Datasets forms

DMP input – WP1

Responsible partner	ACTA
DATASET DESCRIPTION	
Datatype and format	Personal data (name, organisation, field of expertise, contact information such as e-mail address)
Methodology / software used	Several sources for those data : >Prepsoil partners will share contacts from their networks when relevant >New data will be collected through contact with identified stakeholders >Public data will be collected when relevant (e.g. to identify a contact in a particular organisation)
Data process / analyse	The data will be organised by Acta in a table that gives key information on the profile of stakeholders, so that stakeholders relevant to a specific task are easily identified. All partners can access this data to identify relevant stakeholders. Acta will coordinate interactions with these stakeholders.
Purpose of data	All data are collected to help identify relevant stakeholders for the activities planned in Prepsoil and to coordinate interactions with stakeholders during the project
PREPSOIL WP / task(s)	WP1, WP2, WP3 (in support to the other WPs), WP4, WP5, WP6
Expected size of data	to be determined. It shouldn't take a lot of storage space.
Storage and securing reused data	Data will all be stored on the online Prepsoil SharePoint. Data specific to national and local stakeholders in the countries selected for the soil needs assessment will also be stored on Acta personal sharepoint during the collection and processing phase. Access will be limited to Prepsoil partners and the external organisations that will be mobilised, under a Prepsoil partner supervision, for the soil need assessment in regions.
Expected re-use of existing data	All data are collected to help identify relevant stakeholders for the activities planned in Prepsoil and to coordinate interactions with stakeholders during the project. Size: 500kb Process: The data will be organised by Acta in a table that gives key information on the profile of stakeholders, so that stakeholders relevant to a specific task are easily identified. All partners can access this data to identify relevant stakeholders. Acta will coordinate interactions with these stakeholders. Partners should specify when they are interested in contacting a stakeholder so that we can easily create synergies and avoid duplication of contacts and efforts. Store: Online at Prepsoil SharePoint Re-use of data from PREPSOIL: WP2 and WP6
Licensing Reason why data cannot be shared using this license	Data are based on Open Data and there is no ethical limitation. Data freely available using the standard reuse license. Personal data collected for T1.2 will only be used for stakeholder engagement and should not be shared publicly.

DMP input – WP2

Responsible partner(s)	Wageningen Research
DATASET DESCRIPTION	
Datatype and format	maps on different levels (local, regional, national, European) opinions literature
Methodology / software used	literature review collection of all maps available interviews workshops
Data process / analyse	reading, analysing, reporting
Purpose of data	soil needs assessment
PREPSOIL WP / task(s) use	wp4 and 6
Expected size of data	Still not defined
Storage and securing reused data	On the computers of the involved researchers.
Expected re-use of existing data	Maps, Literature, glossaries Process: the same as the other data Storage: on the computer of the involved researchers
Licensing	Data are based on Open Data and there is no ethical limitation. Data freely available using the standard reuse license. But personal opinions should be anonymized at least

DMP input – WP3

Responsible partner	TRUST-IT Services
DATASET DESCRIPTION	
Datatype and format	IP addresses of the prepsoil.eu website visitors. Anonymous navigation data (not tied to their IP address). Personal information of users that provide it via webforms (contact forms, become a soil advocate, recommend a living lab, subscription to the newsletter, soil education with students best practices, additional webforms not yet planned for). The exact personal data provided depends on the specific form, but it is usually requesting at least the full name and email address of the user submitting, plus topic-specific data, e.g. the address of a living lab or the land-use expertise of a potential soil advocate. Personal information of users that create an account or register to post or comment in the discussion area (not available yet).
Methodology / software used	Either automatically by the website platform (IP addresses) or via manual submission by website visitors (webforms).
Data process / analyse	Mainly in spreadsheet format for data provided by users via webforms. Anonymous navigation data will be analysed in the Google Analytics web interface, and presented in an interactive dashboard created in Looker studio (formerly Google Data Studio).
Purpose of data	IP addresses are collected for security and antispam purposes. Personal information is collected to provide the service requested by the user. Anonymous navigation data is collected to analyse the behaviour of visitors on the website and optimise the website to provide relevant content and better user experience.
PREPSOIL WP / task(s) use	WP1, WP4, T6.1, T6.2
Expected size of data	A few kilobytes from the webforms (generated by WP3) + Up to several gigabytes generated by other WPs – and uploaded to the One-Stop-Shop web-site.
Storage and securing reused data	All prepsoil.eu data is stored in highly secure data centers located in Ireland. Access to the platform is all via https which creates an encrypted connection between the user and the website.
Expected re-use of existing data	'The website is currently using the database of LL/LH that were mapped under the SMS project (ended in Sept 2022). Size: A few kilobytes. Process: The list of markers is used as source of the interactive LL/LH map Store: All prepsoil.eu data is stored in highly secure data centers located in Ireland. Re-use of data from PREPSOIL: wp1, wp6, wp4.
Licensing	The information submitted by users through webforms is not sensitive, voluntarily provided, and necessary to process their requests (e.g. to reply to their contact request or to consider their application as soil advocates).

DMP input – WP4.1 & 4.2

Responsible partner(s)	ENoLL
DATASET DESCRIPTION	

Datatype and format	Tbc, information on LL/LH (location, features of aims, types of activities regarding the improvement of soil health, soil use type, types of participants, eventually contact person and website for additional information if agreed)
Methodology / software used	Online questionnaires with usual devices will be developed. An empty excel database might be shared via email for key contributors to add to.
Data process / analyse	Data entries will be collected and gathered first in an excel database. Follow-up communications (emails/calls) might take place to fill gaps in the data. Once the data collection period has ended, the database will be shared with T4.2 partners to be transferred into the virtual Atlas.
Purpose of data	To support the networking activities, and the identification of initiatives all over Europe, the data will be made available and visualized in an interactive virtual atlas.
PREPSOIL WP / task(s)	T4.2
Expected size of data	TBC
Storage and securing reused data	The excel database will be saved on the project Sharepoint.
Expected re-use of existing data	Will integrate previous inventories from the European projects (CSAs) SMS, ALL-Ready, and AE4EU and other European projects that are currently implementing LL and LH mappings Size: TBC Process: same as the other data Re-use of data from PREPSOIL: Data obtained on the regional assessments in WP2 and WP5
Licensing	Data are based on Open Data and there is no ethical limitation. Data freely available using the standard reuse license. No sensitive or confidential information will be collected.

DMP input – WP4.3

Responsible partner(s)	ENoLL
DATASET DESCRIPTION	
Datatype and format	Business plans (BPs) for the upscaling of LLs/LHs in different soil use types and socio-economic conditions beyond the lifetime of the mission.
Methodology / software used	The same or a similar method as the LL mapping exercise could be used – building this request in an online questionnaire or adding the request to the email invitation to fill the LL excel database and through interviews.
Data process / analyse	BPs will be collected and gathered in a repository on the Sharepoint. The analysis will review the BPs, identify similarities and differences, group them when possible. Follow-up communications (emails/calls) might take place to answer questions and/or fill gaps in the data . Once the data collection period has ended, the repository will be shared with T3.2 partners and the results will be shared online to inform the engaged community on soil BPs, where ideas can be further developed and tested in a simulation module developed by ENoLL to be embedded into the one-stop-shop platform.
Purpose of data	Prepare an inventory of BPs for current soil LLs and LHs.
PREPSOIL WP / task(s) use	T3.2, T4.4
Expected size of data	TBC
Storage and securing reused data	The repository of BPs will be saved on the project Sharepoint.
Expected re-use of existing data	TBC
Licensing	Data are based on Open Data and there is no ethical limitation. Data freely available using the standard reuse license.

DMP input – WP4.4

Responsible partner(s)	ENoLL
DATASET DESCRIPTION	
Datatype and format	Under T4.4 task leader and contributors are to host 2 workshops (M 12 & 20), the first with mature LLs and the second with potential funders. Notes will be taken during each event and the conversations might be recorded. Post-session surveys will also be sent out to the attendees. These attendees will be invited to the workshops, so email addresses are collected.
Methodology / software used	Meeting notes will be taken in either or both writing and on the computer. Sessions might be recorded for accuracy in note-taking. Surveys responses will be collected on Microsoft Forms.
Data process / analyse	Notes and recordings will be used and analysed for the drafting of a synthesis report. Report writers will tease out key themes, best practices and lessons. The analytical tool built-in Microsoft Forms will provide the analysis of quantitative data while the qualitative responses will be further analysed to be integrated in the reports. Data entries will be collected and gathered first in an excel database. Follow-up communications (emails/calls) might take place to fill gaps in the data. Once the data collection period has ended, the database will be shared with T4.2 partners to be transferred into the virtual Atlas.
Purpose of data	Meeting notes and recordings are for the purpose of developing synthesis reports. Surveys are to gather additional feedback and input. All to gather more data to explore development in LL BPs. People are invited to join in workshops, and they will be given feedback from the workshops they participate in. These people will also bring in knowledge regarding their living labs, locations, networks, the function they work in, organization etc.
PREPSOIL WP / task(s) use	T4.4, T4.1, T4.3, T3.2
Expected size of data	100 kb
Storage and securing reused data	The meeting notes and recordings will be saved on the project Sharepoint. The survey data will be collected in Microsoft Forms and then will be exported and filed on the project Sharepoint. Excel database will be saved on Sharepoint. This part of the Sharepoint may be accessible by identified people of each organization.
Expected re-use of existing data	Will use the information from living labs of the SMS project, ALL-Ready, PREPSOIL and AE4EU in case those projects are selected as case studies for the workshops. Size: TBC Process: Same as the other data Re-use of data from PREPSOIL: T4.1, T4.4, T4.2, T4.4. T4.3
Licensing Reason why data cannot be shared using this license	No sensitive or confidential information will be collected as official output for the project itself, it will only be used to inform people about the workshops. Data cannot be linked to individual people, so in case of collected email addresses, we will not show email addresses in a freely available license. More broader descriptions such as organization or function, can be shared.

DMP input – WP5

Responsible partner(s)	INRAE
DATASET DESCRIPTION	
Datatype and format	Qualitative data and quantitative data Qualitative variables: - T5.1: Data from surveys on soil monitoring and indicators in other UE and national projects, as well as in MS and AC), T5.3 ()), - T5.2: Description of existing Copernicus Land Monitoring Service (CLMS) data and mathematical formulations; Other existing or suggested mathematical formulations; Description of the possible zone to test the deployment of some indicators, - T5.3: Data from survey on relevant existing CS initiatives in the context of soil needs, T5.4: Survey on existing capacity building for improved monitoring knowledge base (on Soil Health National Hubs) Quantitative data: - CLMS data and other data (on soil, crops, and climate) from the areas chosen for the deployment of some indicators (T5.2),
Methodology / software used	Survey and exchanges with other UE and national project coordinators, as well as with other relevant people in MS and AC
Data process / analyse	Qualitative data: stocktake proposal and analysis Quantitative data: calculations to assess the deployment of some soil indicators
Purpose of data	To obtain stocktakes on existing initiatives, identify gaps, and assess the deployment of some soil health indicators
PREPSOIL WP / task(s) use	WP5
Expected size of data	Qualitative data: "small" size - Quantitative data: "big" size (especially for CLMS Data)
Storage and securing reused data	Not still clearly defined
Expected re-use of existing data	To use already existing stocktakes for agricultural soils; To assess the deployment of some soil health indicators. Size: "Big" for CLMS Data. Process: Stocktakes for survey qualitative data, and identification of gaps etc.; - Calculations for CLMS data, with comparison and/or assimilation of other data (on soils, crops and climates) for regions chosen for the deployment of some soil indicators.
Licensing	Data are based on Open Data and there is no ethical limitation. Data freely available using the standard reuse license.

DMP input – WP5

Responsible partner(s)	LESSPROJEKT
DATASET DESCRIPTION	
Datatype and format	Detail Open LAnd USe 2.0 data from selected pilot region
Methodology / software used	For OLU 2.0 we have own methodology (https://www.mdpi.com/2073-445X/11/9/1552) ahttps://www.agrihub.cz/ and https://hub4everybody.com/ will be used
Data process / analyse	Data are multilayer combination, it could be analysed statisticaly, but also visualised
Purpose of data	Mainly detail analysis of pilot region
PREPSOIL WP / task(s) use	WP5(task 5.2, 5.3)
Expected size of data	500 GB - 1 Terra
Storage and securing data during the collection and processing phase	We will use existing Lesprojekt cloud
Expected re-use of existing data	SmartAgriHubs, SIEOSOUL, STARGATE Size: max 1 Terra Statistical analysis, visualisation Storage: Data are already on Lesprojekt cloud Re-use of data from PREPSOIL: WP2, WP5
Licensing Reason why data cannot be shared using this license	Data are based on Open Data and there is no ethical limitation. Data freely available using the standard reuse license. Part of data is generated from OSM and this data are under Open Data Commons Open Database License (ODbL), which is viral license and any data derived from this has to use this license. Other derived data can be under https://creativecommons.org/licenses/by/4.0/

DMP input – WP6

Responsible partner(s)	SLU
DATASET DESCRIPTION	
Datatype and format	Data will be in survey / qualitative and quantitative information/ format (T6.3); videos/interviews and project descriptions (T6.2, T61) , lists of contributors (contact lists) of those taking part in activity 6.1, &.2, & 6.3
Methodology / software used	Open source a commercial software may be used for surveys online) and videos, editing (translation?)
Data process / analyse	In some cases data will be anonymised, in other cases consent will besought by individuals/ organisation (related to video interviews)
Purpose of data	O8. To connect and promote exemplary education and social initiatives, and soil ambassadors (WP3&6). KPI: +80 grassroot and local initiatives engaged; +12 events/webinars to promote good practices at EU level.
PREPSOIL WP / task(s) use	WP3
Expected size of data	Still not defined, maybe estimate number of videos
Storage and securing reused data	Until released in edited and quality assured format on the Wp3 PREPSOIL website, it will follow internal host data management and standards on password protected personal computers or other university hosted computers in university secured sites.
Expected re-use of existing data	WP1 and other stakeholder may be sought to ensure alignment with partner activities in PREPSOIl. This will mainly relate to contact with external stakeholders (WP1, WP4)
Licensing Reason why data cannot be shared using this license	Data are based on Open Data and there is no ethical limitation. Data freely available using the standard reuse license. Any protocol will follow ethical procedures of lead partner (SLU or NIBIO) and any requirement by PREPSOIL