

# Open Science: Storage, publication and sharing of EJP SOIL results

- |               |  |
|---------------|--|
| 13:00 – 13:10 | Introduction   |
| 13:10 – 13:40 | Open Access to scientific publications; sharing abstracts, presentations and datasets underlying articles (Anna Besse) |
| 13:40 – 14:10 | Sharing soil data: metadata and repositories (Maria Fantappiè, Fenny van Egmond)                                       |
| 13:10 – 13:20 | Workflow for EJP SOIL outputs  |
| 14:20 – 14:30 | Discussion: challenges and solutions   |



**EJP SOIL**  
European Joint Programme

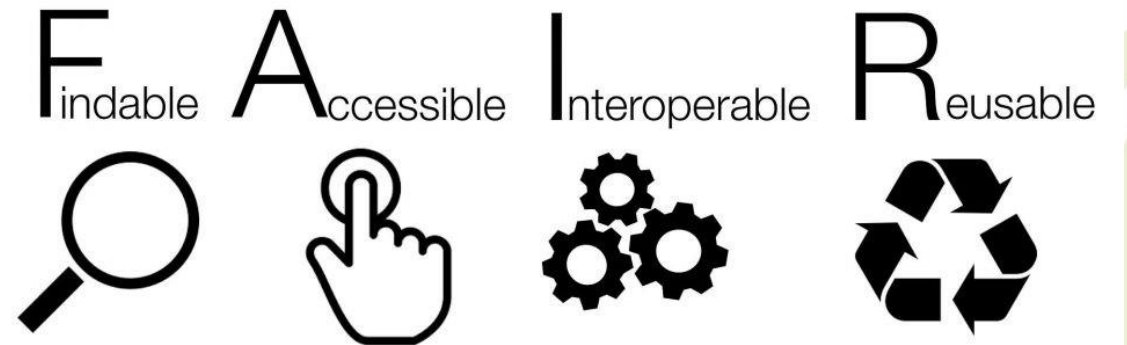
EJP SOIL has received funding from the European Union's Horizon 2020 research and innovation programme; Grant agreement No 862695



# Open Science principles



for ourselves and others

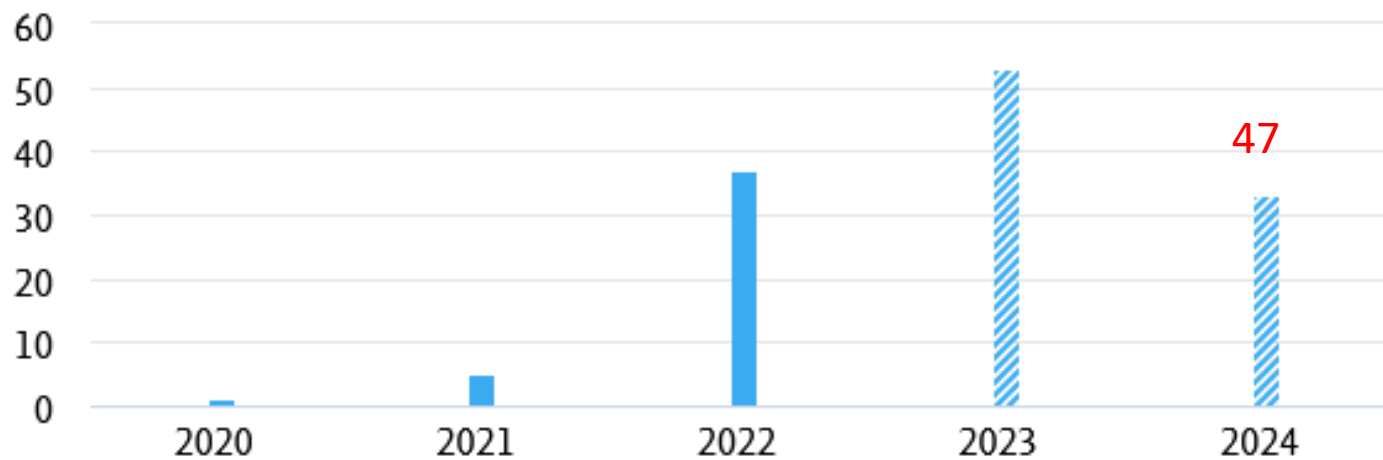


<https://soc.kuleuven.be/mintlab/blog/news/opensciencediscourse/>

[https://nl.wikipedia.org/wiki/FAIR-principes#/media/Bestand:FAIR\\_data\\_principles.jpg](https://nl.wikipedia.org/wiki/FAIR-principes#/media/Bestand:FAIR_data_principles.jpg)

# EJP SOIL peer-reviewed publications

## Scholarly Output ⓘ



▨ Incomplete year ⓘ

*Information from April 2024*

Publication types	Publications
Article	98
Review	23
Short Survey	3
Editorial	2
Chapter	1
Data Paper	1
Note	1

# EJP SOIL Data

862695 (EJP SOIL) COFUND-EJP

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION  
**HORIZON 2020**

Call: H2020-SFS-2018-2020  
Topic: LC-SFS-20-2019 Unit: REA/B/02

Summary for publication ✓  
Deliverables Ethics, DMP, Other Reports

Milestones

Critical Risks ✓

Publications ✓

Disseminati... and Communic... ✓

Intellectual property rights (IPR) ✓

Innovation ✓

Open Data

Gender ✓

ABS Regulation

Financial support to 3rd parties ✓

## Open Data

### Project Open Datasets (57 datasets)

[+ Manually Add Data Set](#)

No. ▲	DOI	Title/Identifier	Accessible	Reusable	Repository Link	Non-Repository Lir	DOI Linked Publica	Actions
1		A global, empirical, harmonised dataset of Soil Organic Carbon under Perennial Crops	Yes	Yes				✕
2		Software EX-TRACT	Yes	Yes				✕
3		Zonal and raster data for i-SoMPE WP1 R Project	Yes	Yes				✕
4		Supplementary material to: Quality Assessment of Meta-Analyses on Soil Organic Carbon	Yes	Yes				✕
5		Adoption rate of 58 innovative soil management practices (maps of inventory A)	Yes	Yes				✕
6		List and description of 58 innovative soil management practices (inventory A)	Yes	Yes				✕
7		Metadata of the data base of the inventory (A and B)	Yes	Yes				✕
8		Open data (factor data) of the inventory (A and B)	Yes	Yes				✕
9		Characterization of the Agroecological Zones of Europe	Yes	Yes				✕
10		Export module of the EJP SOIL CarboSeq WP2 database	Yes	Yes				✕

Remember: all deliverables of internal projects are public!

## EJP SOIL deliverables

Are the deliverables scientifically meaningful?

YES

**Action: Publish deliverables**

Scientific publication/  
Manuscripts

Reports

Datasets

E.g. intermediate versions of reports, meeting minutes...

NO

**Action: Not to publish**

# EJP SOIL: Open Access for publications, reports and underlying data

**Anna Besse-Lototskaya (Wageningen UR, [anna.besse@wur.nl](mailto:anna.besse@wur.nl))**




**EJP SOIL**  
European Joint Programme

EJP SOIL has received  
funding from the European  
Union's Horizon 2020  
research and innovation  
programme: Grant  
agreement No 862695



# Open Access to EJP SOIL peer-reviewed articles is mandatory


## HOW TO ACHIEVE OPEN ACCESS IN HORIZON 2020



**SELF-ARCHIVING**  
**'GREEN' OPEN ACCESS**

deposit the final peer-reviewed manuscript in a repository of your choice.


*Researchers must ensure open access to the publication within at most 6 months (12 months for publications in the social sciences and humanities).*



**OPEN ACCESS PUBLISHING**  
**'GOLD' OPEN ACCESS**

publish in open access journals or in hybrid journals.

*Article processing charges are eligible for reimbursement during the duration of your project. Hybrid journals sell subscriptions (i.e. closed access) AND offer the option of making some individual articles open access.*



**BOTH OPTIONS ARE POSSIBLE**

if the gold route is chosen the article must also be deposited in a repository to comply with Article 29.2.

## Option 1: GOLD / with publisher



- a. Check for Open Access arrangements with your institute
- b. Upon publication: deposit in Zenodo or Institutional Repository: metadata +pdf
- c. In EJP SOIL continuous reporting template: report publisher's link + repository link!





# Even if GOLD: deposit in Repository!

<https://bsssjournals.onlinelibrary.wiley.com/doi/10.1111/ejss.13242>

<https://www.research-collection.ethz.ch/handle/20.500.11850/548479>

European Journal of **Soil Science**




OPINION  Open Access 

## A well-established fact: Rapid mineralization of organic inputs is an important factor for soil carbon sequestration

Denis Angers, Dominique Arrouays ✉, Rémi Cardinael, Claire Chenu, Marc Corbeels, Julien Dementois, Mark Farrell, Manuel Martin, Budiman Minasny, Sylvie Recous, Johan Six

First published: 27 April 2022 | <https://doi.org/10.1111/ejss.13242> | Citations: 1

Comment on "Soil carbon sequestration for climate change mitigation: Mineralization kinetics of organic inputs as an overlooked limitation"

SECTIONS  PDF  TOOLS  SHARE

### Abstract

We have read with interest an opinion paper recently published in the European Journal of Soil Science (Berthelin et al., 2022). This paper presents some interesting considerations, at least one of which is already well known to soil scientists working on soil organic carbon (SOC), that is, a large portion (80%–90%) of fresh carbon inputs to soil is subject to rapid mineralization. The short-term mineralization kinetics of organic inputs is well-known and accounted for in soil organic matter models. Thus, clearly, the long-term predictions based on these models do not overlook short-term mineralization. We

any agronomic practices can significantly contribute to SOC

ETH zürich Login Help Deutsch

## Research Collection

Home → Journal Contributions → Journal Article → View Item

### A well-established fact: Rapid mineralization of organic inputs is an important factor for soil carbon sequestration



**Download**  
Full text (published version) (PDF, 855.4Kb) ↓

**Rights / license**  
Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International

**Abstract**  
We have read with interest an opinion paper recently published in the European Journal of Soil Science (Berthelin et al., 2022). This paper presents some interesting considerations, at least one of which is already well known to soil scientists working on soil organic carbon (SOC), that is, a large portion (80%–90%) of fresh carbon inputs to soil is subject to rapid mineralization. The short-term mineralization kinetics of organic inputs is well-known and accounted for in soil organic matter models. Thus, clearly, the long-term predictions based on these models do not overlook short-term mineralization. We point out that many agronomic practices can significantly contribute to SOC sequestration. If conducted responsibly whilst fully recognising the caveats, SOC sequestration can lead to a win-win situation where agriculture can both contribute to the mitigation of climate change and adapt to it, whilst at the same time delivering other co-benefits such as reduced soil erosion and enhanced biodiversity. [Show less](#)

**Permanent link**

**Open access** 

**Author**  
[Angers, Denis](#)  
[Arrouays, Dominique](#)  
[Cardinael, Rémi](#)  
[Chenu, Claire](#)  
[Corbeels, Marc](#)  
[Dementois, Julien](#)  
[Farrell, Mark](#)  
[Martin, Manuel](#)  
[Minasny, Budiman](#)  
[Recous, Sylvie](#)

## Option 2

Article is NOT published Open Access ->

### GREEN Open Access (self-archiving)

- Max embargo of 6 months (12 months for social sciences)
- After manuscript acceptance and **before publication**: ask permission from publisher for self-archiving ([template letter](#))
- Deposit article Open Access in Zenodo or institutional repository
- In EJP SOIL continuous reporting template: report repository link and embargo period

**HOW TO ACHIEVE OPEN ACCESS IN HORIZON 2020**

**SELF-ARCHIVING 'GREEN' OPEN ACCESS**

deposit the final peer-reviewed manuscript in a repository of your choice.

*Researchers must ensure open access to the publication within at most 6 months (12 months for publications in the social sciences and humanities).*

**OPEN ACCESS PUBLISHING 'GOLD' OPEN ACCESS**

publish in open access journals or in hybrid journals.

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**BOTH OPTIONS ARE POSSIBLE**

if the gold route is chosen the article must also be deposited in a repository to comply with Article 29.2.

May 8, 2023

Journal article

Open Access

# Soil organic carbon sequestration potential for croplands in Finland over 2021-2040 under the interactive impacts of climate change and agricultural management

Fulu Tao; Taru Palosuo; Aleksu Lehtonen; Jaakko Heikkinen; Raisa Mäkipää

**CONTEXT:** Cropland soil organic carbon (SOC) stock can be increased by agricultural management, but is subject to various factors. The extent and rates of SOC sequestration potential, as well as the controlling factors, under different climate and management practices across a region or country are important for policy-makers and land managers, however have been rarely known.

**OBJECTIVE:** We aim to investigate the extent and rates of SOC sequestration potential over 2021-2040 under different scenarios of climate change and Sustainable Soil Management (SSM) practices, and quantify the impacts of climate change and SSM practices on the SOC sequestration potential, for croplands across Finland at a spatial resolution of 1 km.

**METHODS:** RothC model is run iteratively to equilibrium to calculate the size of the SOC pools and the annual plant carbon inputs. Then, it is applied to investigate the SOC sequestration potential over 2021-2040 under different scenarios of climate change and SSM practices. Finally, factorial simulation experiments are conducted to quantify the impacts of climate change and SSM practices, alone and in combination, on SOC sequestration potential.

**RESULTS AND CONCLUSION:** Under the combined impacts of climate change and SSM practices, the SOC sequestration potential during 2021-2040 relative to 2020 will be on average -0.03, 0.007, 0.05, and 0.13 t C ha<sup>-1</sup> yr<sup>-1</sup>, respectively, with carbon input being business as usual, 5%, 10%, and 20% increase. This is equivalent to an annual change rate of -0.04%, 0.009%, 0.07%, and 0.17%, respectively. Therefore, a 20% increase in C input to soil will not be enough to obtain a 4‰ increase per year over the 20-year period in Finland. Carbon input will promote SOC sequestration potential; however, climate change will reduce it on average by 0.28 t C ha<sup>-1</sup> yr<sup>-1</sup>. Across the cropland in Finland, on average, the relative contributions of C input, temperature, and precipitation to SOC sequestration potential in 2021-2040 will be 56%, 24%, and

21

views

24

downloads

[See more details...](#)

Indexed in

OpenAIRE

**Publication date:**

May 8, 2023

**DOI:**

DOI 10.1016/j.agry.2023.103671

**Grants:**European Commission:

- EJP SOIL - Towards climate-smart sustainable management of agricultural soils (862695)

**License (for files):**[Creative Commons Attribution 4.0 International](#)

# OPEN ACCESS

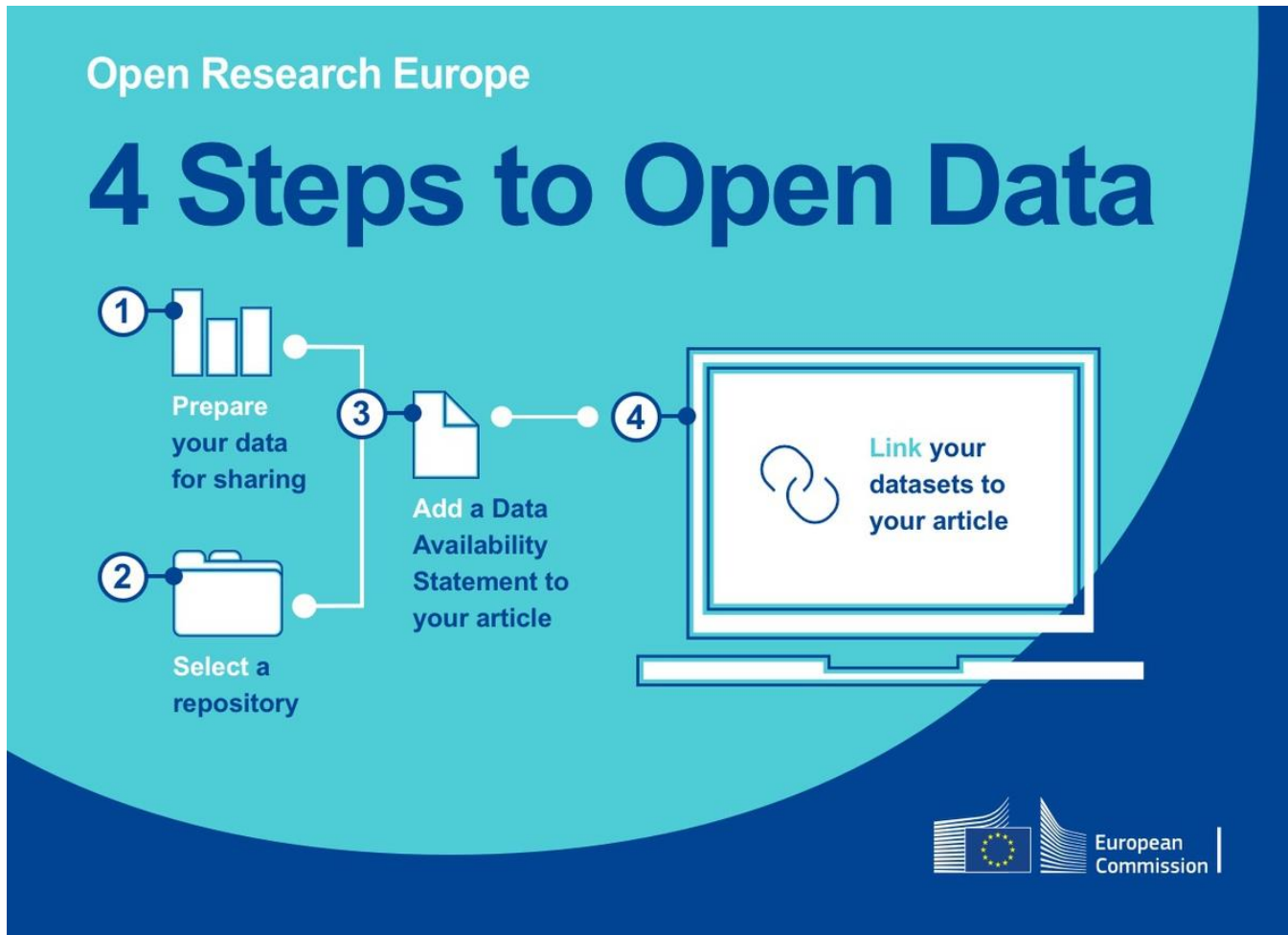
- Consider Open Access options when selecting a journal for publication
- Be aware of predatory publishers: [checklist](#) to identify a trusted journal
- Tool by the Finnish scientific community: [classification of journals](#)



# EJP SOIL Reports / Deliverables / Policy Briefs / Posters / Abstracts

- Publish scientifically meaningful deliverables in Zenodo!
- Results yet to be published? Embargo
- DOI for citations. *Create DOI when deliverable/report is final (after confirmation from WP3/WP7)*
- CC BY as explanation for re-use
- Consider what else you want to share. Key presentations? Video's?...

# Open Access requirements for data underlying publications



Open Access as soon as possible

- Deposit data (and metadata) in an eligible Repository
- Provide DOI -> dataset becomes a publication
- CC BY license
- Link dataset to article, link article to dataset
- NOT as supplementary material with publisher

## What is reported to EC-H2020?

- Type
- Title
- Authors
- Title of the Journal/Proc./Book
- Is Peer-reviewed?
- Open Access: **mandatory for peer-reviewed articles**
- DOI
- Repository Link: **mandatory for all publications (even if your article is Open Access)!**
- Underlying data (link to Repository): **mandatory for peer-reviewed articles if new data are used**
- *Acknowledgement of EJP SOIL grant number - mandatory*

This research was developed in the framework of the European Joint Program for SOIL “Towards climate-smart sustainable management of agricultural soils” (EJP SOIL) funded by the European Union Horizon 2020 research and innovation programme (Grant Agreement N° 862695).

Remember: all deliverables of internal projects are public!

## EJP SOIL Deliverables

Are the deliverables scientifically meaningful?

E.g. intermediate versions of reports, meeting minutes...

YES

NO

Action: Publish deliverables

Action: Not to publish

Scientific publication/  
Manuscripts

Reports

**Author** stores in institutional repository or Zenodo (embargo possible)

Dataset involved

NO

YES

**Author** reports DOI to PCR;  
**PCR** reports to WP9

Which type of dataset?

Open: Upload to Zenodo

Open with embargo: Upload to Zenodo

Closed (produced outside EJP SOIL): no deposition

Report *metadata* from datasets without DOI to EJPSOIL metadata catalogue  
<https://catalogue.ejpsoil.eu/>



## Further information

Open Access requirements and guidelines for H2020 projects:

[https://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-pilot-guide\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf)

# Sharing soil data: metadata and repositories

**Maria Fantappiè** ([maria.fantappie@crea.gov.it](mailto:maria.fantappie@crea.gov.it))

&

**Fenny van Egmond** ([fenny.vanegmond@wur.nl](mailto:fenny.vanegmond@wur.nl))



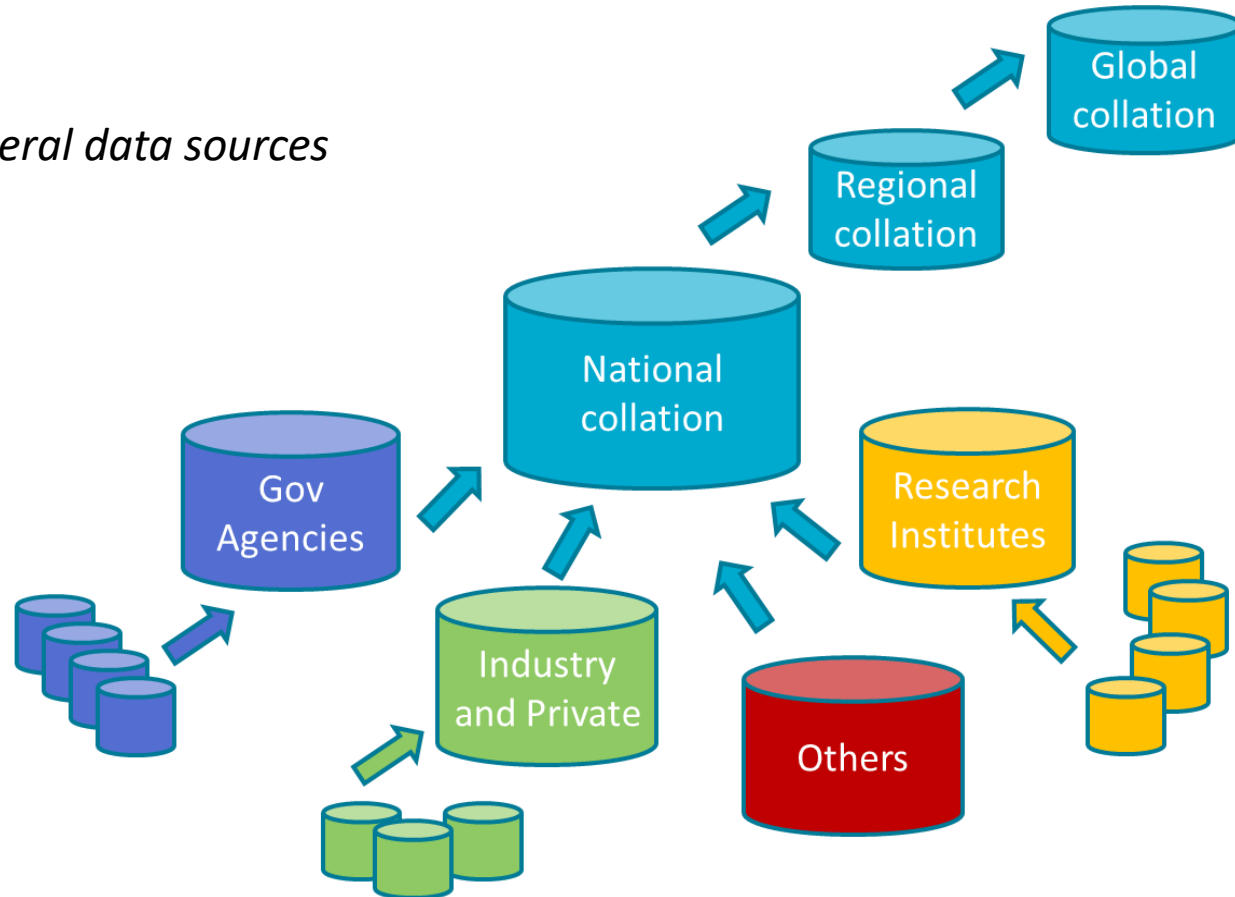
**EJP SOIL**  
European Joint Programme

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research and innovation  
programme: Grant  
agreement No 862695



# PRODUCING RESEARCH BY COLLECTING SEVERAL DATA SOURCES

*several data sources*



# DATA MANAGEMENT LEGAL ASPECTS

## Background data

Data produced **OUTSIDE THE EJP SOIL programme** by project partners

The data owners define the sharing rules.

Specific agreements to be produced and signed by the data owners.

**In the D6.2 of EJP SOIL:**  
a draft template of agreement with a list of possible sharing rules to facilitate the sharing.

## EJP SOIL data

Data produced **INSIDE THE EJP SOIL programme** by ALL THE EJP SOIL WPs and by ALL THE EJP SOIL PROJECTS

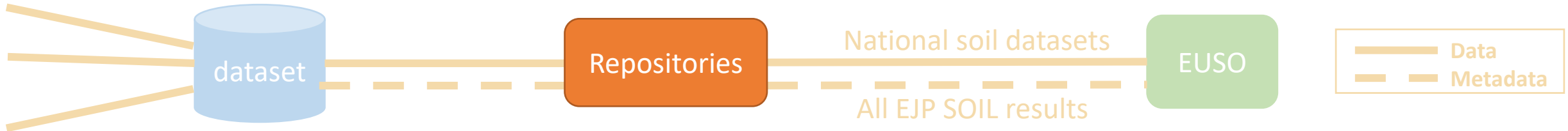
Sharing rules defined in the Grant Agreement and Consortium Agreement of EJP SOIL.

Open access at the end of the project, respecting an embargo period (to get results published).  
Intellectual properties rights respected.

permanent repositories

**NOTE THAT:** The sharing rules for site **coordinates** are in all cases respected, following the **national legislations**.

# Data deposition in repositories

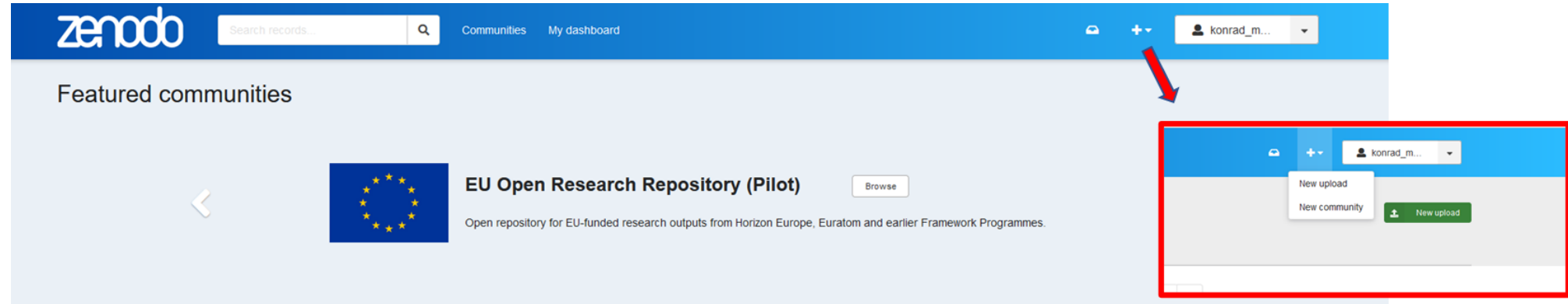


- Minimum requirements:

- Persistent (>20 yr guaranteed) repositories (e.g. ZENODO for research, national repositories)
  - Include metadata required by repository (+ more if this adds to the reusability)
  - Use keywords in the metadata! EJPSOIL and your projectname, for findability
  - Include data license (advised CC-BY)
  - You get a DOI that you can use to cite the dataset and link to your article
- When more restrictive: data sharing licensing templates available (between partners and to JRC) in [D6.2](#)




# ZENODO – ProbeField example



zenodo Search records... Communities My dashboard konrad\_m...

### Featured communities

 **EU Open Research Repository (Pilot)** Browse

Open repository for EU-funded research outputs from Horizon Europe, Euratom and earlier Framework Programmes.

New upload  
New community  
New upload

## Recent uploads

May 16, 2024 (v1) Dataset Open

### Reproduction package for the paper "The open-source sunbather code: modeling escaping planetary atmospheres and their transit spectra"

Linssen, Dion; Shih, Jim; MacLeod, Morgan

This is a reproduction package for the paper "The open-source sunbather code: modeling escaping planetary atmospheres and their transit spectra" by Dion Linssen, Jim Shih, Morgan MacLeod & Antonija Oklopčić (2024). It provides a front-to-end reproduction script to reproduce the results and Figures 1-5 of the paper. Figures 6&7 can be...

Uploaded on May 16, 2024

Part of API - The Anton Pannekoek Institute for Astronomy

0 0

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May 16, 2024 (v1) Presentation Open

### Prévisions climatiques décennales (Ten-year climate forecasts)

Swingedouw, Didier; Mignot, Juliette; Sgubin, Giovanni

This presentation was given by Didier Swingedouw at a meeting about climate services in the "Nouvelle Aquitaine" region with a large number of stakeholders. The focus was on providing data from decadal predictions, i.e. focusing on changes at near term change. I have organised the meeting and presented what decadal predictions are, and I have...

Uploaded on May 16, 2024

Part of TtpESM

0 0

## Why use Zenodo?

- **Safe** — your research is stored safely for the future in CERN's Data Centre for as long as CERN exists.
- **Trusted** — built and operated by CERN and OpenAIRE to ensure that everyone can join in Open Science.
- **Citeable** — every upload is assigned a Digital Object Identifier (DOI), to make them citable and trackable.
- **No waiting time** — Uploads are made available online as soon as you hit publish, and your DOI is registered within seconds.
- **Open or closed** — Share e.g. anonymized clinical trial data with only medical professionals via our restricted access mode.
- **Versioning** — Easily update your dataset with our versioning feature.
- **GitHub integration** — Easily preserve your GitHub repository in Zenodo.
- **Usage statistics** — All uploads display standards compliant usage statistics

## Newsletter

Receive updates on our latest developments, projects and upcoming webinars sent quarterly.

E-mail \*

your-email@example.com

# ZENODO – ProbeField example

Files

Storage available 7 out of 100 files 149.97 MB out of 50.00 GB

Preview	Filename	Size	Progress
<input type="checkbox"/>	03_spectraA_neo.csv md5:729cea1408c73412a17c04da21abod2b	7.66 MB	100%
<input type="checkbox"/>	06_fields_and_spectrometers.txt md5:50849b1a692ff5728cf9f324370eff95	1.53 KB	100%
<input type="checkbox"/>	01_laboratory_analyses.csv md5:4e8421fb2be2baada3ca1a587086783c	22.11 KB	100%
<input type="checkbox"/>	02_spectraA_psr.csv md5:2oe2ebo4e3609cbef4be57c886b0a69a	34.46 MB	100%
<input type="checkbox"/>	00_metadata_Agroscope_SSL.txt md5:7093412f0fac3aed1635499fae457453	9.72 KB	100%
<input type="checkbox"/>	04_psr.rds md5:d53839d3f0e77ca8f020620403e28694	88.41 MB	100%
<input type="checkbox"/>	05_neo.rds md5:3495c867ed2oe119a01ac7455c111135	19.41 MB	100%

Draft

Save draft Preview

Publish

**Visibility**

Files only

Public Restricted

The files of this record are restricted.

**Embargoed (files-only)**

The record is publicly accessible. On June 1, 2025 the files will automatically be made publicly accessible. Until then, the files can only be accessed by users specified in the permissions.

Options

**Apply an embargo**

Record or files protection must be restricted to apply an embargo.

Embargo until

# ZENODO ProbeField

DOI!!!

# example

Basic information

**Digital Object Identifier\***  
Do you already have a DOI for this upload?  Yes  No

10.5281/zenodo.11204174

Reserve a DOI by pressing the button (so it can be included in files prior to upload). The DOI is registered when your upload is published.

**Resource type\***  
Dataset

**Title\***  
Agroscope\_SSL\_v2\_2024

+ Add titles

**Publication date\***  
2024-05-16

In case your upload was already published elsewhere, please use the date of the first publication. Format: YYYY-MM-DD, YYYY-MM, or YYYY. For intervals use DATE/DATE, e.g. 1939/1945.

**Creators\***  
Metzger, Konrad (Agroscope) Data collector

+ Add creator

**Description**  
Paragraph

Soil Spectral Library (SSL) consisting of vis-NIR spectra from 134 soil samples scanned in different scanning setups and two instruments including the corresponding laboratory analyses

Funding

**Awards**

**Measuring and Optimising Farm Environmental Impacts – Proximal Sensing** Agroscope **INDICATE**

**EJP SOIL — Towards climate-smart sustainable management of agricultural soils** European Commission 862695

+ Add award + Add custom

Related works

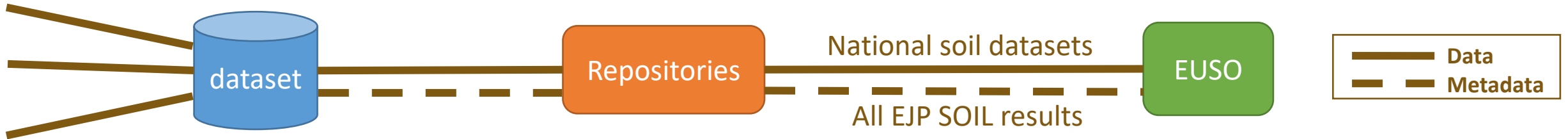
Specify identifiers of related works. Supported identifiers include DOI, Handle, ARK, PURL, ISSN, ISBN, PubMed ID, PubMed Central ID, ADS Bibliographic Code, arXiv, Life Science Identifiers (LSID), EAN-13, ISTC, URNs, and URLs.

**Related works**

Relation*	Identifier*	Scheme*	Resource type
Is referenced by	10.1111/sum.12952	DOI	Publication / Journal article
Is referenced by	10.1111/ejss.13508	DOI	Publication / Journal article



# Workflow Metadata Catalogue EJP SOIL



Contains: - Data produced in the EJP SOIL  
- National datasets

<https://catalogue.ejpsoil.eu/>

Cookbook for guidance:

<https://ejpsoil.github.io/soil-data-assimilation-guidance>

The screenshot shows the search interface of the EJP SOIL Metadata Catalogue. At the top, there is a search bar with the text 'Search' and a blue 'Submit' button. Below the search bar, the section 'Records recently modified' displays six record cards. Each card has a dark green header with white text and a white body. The records are: 1. 'Erste Bodenzustandserhebung Landwirtschaft – Kerndatensatz', 2. 'Supplementary material to, Quality Assessment of Meta-Analys...', 3. 'Etude 4pour1000, BANCO simulation data for publication of th...', 4. 'EJP SOIL CarboSeq agrometeorological datasets', 5. 'Mathematical techniques to remove moisture effects from visi...', and 6. 'Software EX-TRACT'. At the bottom left of the records section, there is a blue button labeled 'View all records'.

# Examples of search functionality (D6.6) EJP SOIL Metadata Catalogue

Home / Collections / EJPSoil catalogue

JSON | About | Contact

## EJPSoil catalogue

This catalogue lists a set of datasets around soil data in Europe. The records have been collected in the scope of the EJP Soil project.

EJP SOIL is a European Joint Programme Cofund on Agricultural Soil Management contributing to key societal challenges including climate change, water and future food security.

The objectives are to develop knowledge, tools and an integrated research community to foster climate-smart sustainable agricultural soil management that: Allows sustainable food production, Sustains soil biodiversity, Sustains soil functions that preserves ecosystem services. EJP Soil is supported by the European Commission through the Horizon 2020 European Union funding for Research & Innovation. More background information about the catalogue is available at the [about page](#).

### Search in the catalogue

carboseq

#### Records recently modmeu

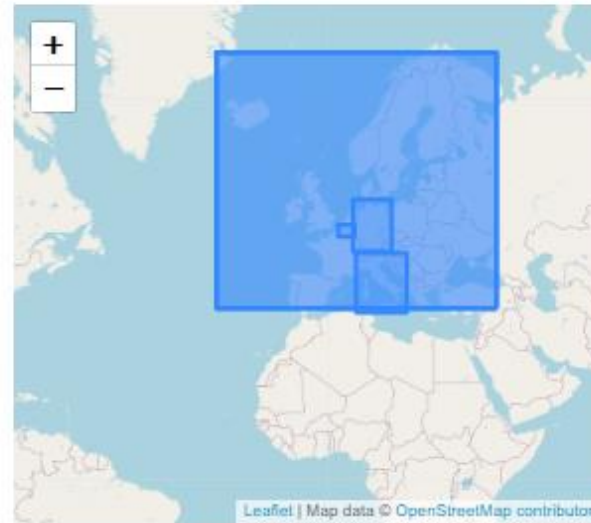
- Erste Bodenzustandserhebung Landwirtschaft - Kerndalensatz
- Supplementary material to, Quality Assessment of Meta-Analys...
- Etude 4pour1000, BANCO simulation data for publication of th...
- EJPSOIL CarboSeq agrometeorological datasets
- Mathematical techniques to remove moisture effects from vist...
- Software EX-TRACT

Powered by Pycsw 3.0.dev0

EJP SOIL has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101019719.



Home / Collections / EJPSoil catalogue / Items



## Country

- > Austria
- > Belgium
- > Bulgaria
- > Czech Republic

## Country

- > Austria
- > Belgium
- > Bulgaria
- > Czech Republic
- > Denmark
- > Estonia
- > Europe
- > France
- > Germany
- > Greece
- > Hungary
- > Ireland
- > Italy
- > Latvia
- > Lithuania
- > Luxemburg
- > Malta
- > Netherlands
- > Norway
- > Poland
- > Portugal
- > Romania
- > Slovakia
- > Slovenia
- > Spain
- > Sweden
- > Switzerland
- > Turkey
- > UK

## EJP Soil

- > AGROECOseqC
- > CLIMASOMA
- > CarboSeq
- > EJP Soil
- > EnergyLink
- > INSURE
- > MINOTAUR
- > MIXROOT-C
- > MaxRoot-C
- > PRAC2LIV
- > ProbeField
- > Road4Schemes
- > SCALE
- > SIREN
- > STEROPES
- > SensRes
- > SoilCompaC
- > Sommit
- > TRACE-Soils
- > I-SomPME

## Type

- > Dataset
- > Document
- > Service
- > Software
- > Project

# Nr. of records so far

Country	
> Austria	27
> Belgium	38
> Bulgaria	6
> Czech Republic	21
> Denmark	8
> Estonia	7
> Europe	48
> France	38
> Germany	31
> Greece	3
> Hungary	41
> Ireland	12
> Italy	4
> Latvia	18
> Lithuania	9
> Luxemburg	5

> Malta	2
> Netherlands	12
> Norway	16
> Poland	8
> Portugal	8
> Romania	2
> Slovakia	11
> Slovenia	30
> Spain	19
> Sweden	34
> Switzerland	14
> Turkey	15
> UK	63

EJP Soil	
> AGROECOseqC	
> CLIMASOMA	
> CarboSeq	8
> EJP Soil	74 (stocktake keyword)
> EnergyLink	
> INSURE	
> MINOTAUR	1
> MIXROOT-C	
> MaxRoot-C	
> PRAC2LIV	
> ProbeField	
> Road4Schemes	
> SCALE	
> SIREN	1
> STEROPES	1
> SensRes	
> SoilCompaC	
> Sommit	
> TRACE-Soils	
> I-SomPME	6

# Metadata workflow for project datasets in practice

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EJPSoil

This catalogue

EJP SOIL is a

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production, Sus  
European Unio

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Search

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Records re

Provision of  
of European  
Agricultural L  
Exp...

View all records

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## EJP MTE/LTE metadataset v1.0.1

European EJPSoil

Initial release of field data. Data was acquired from Austria (Pia Huyghebaert, Stig Olesen, Gitte H. BRUT, Sabine H. TALLEC, Franco Makádi, László F. (Roberto Barbett Tabaglio, Domen Grazina Kadzien van Middelkoop, Øverli Kristoffers Sobocka), Sloven Plaza, Inés Santi and UK (Catalina Robin Pakeman,

### Contacts

**Blanchy, Guillaume**  
Role: Blanchy-Guillaume  
Url: <https://orcid.org/0000-0001-8491-4899>

**D'Hose, Tommy**  
Role: D'Hose-Tommy  
Url: <https://orcid.org/0000-0001-8491-4899>

**Donmez, Cenk - Cukurova Universtesi**  
Role: Donmez-Cenk  
Url: <https://orcid.org/0000-0001-8491-4899>

**Hoffmann, Carsten**  
Role: Hoffmann-Carsten  
Url: <https://orcid.org/0000-0001-8491-4899>

Svoboda, Nikolai - German

**Role: Svoboda-Nikolai**  
Url: <https://orcid.org/0000-0001-8491-4899>

**Zechmeister-Boltenstern, University of Natural Resources and Applied Life Sciences**  
Role: Zechmeister-Boltenstern  
Url: <https://orcid.org/0000-0001-8491-4899>

**Klumpp, Katja - Institute of Soil Science and Plant Nutrition**  
Role: Klumpp-Katja  
Url: <https://orcid.org/0000-0001-8491-4899>

### Temporal

Updated: 2024-09-01  
Temporal extent: 2023-01-01 to 2023-12-31

### Formats

### External identifiers

<http://doi.org/10.5281/zenodo.7598122>

### Links

<https://doi.org/10.5281/zenodo.7598122>

Powered by pysw 3.0.dev0



Search records...



Communities

My dashboard

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## EJP MTE/LTE metadataset v1.0.1

Blanchy, Guillaume<sup>1</sup> ; D'Hose, Tommy<sup>1</sup> ; Donmez, Cenk<sup>2</sup> ; Hoffmann, Carsten<sup>3</sup> ; Makoschitz, Lisa<sup>4</sup>; Murugan, Rajasekaran<sup>5</sup> ; O'Sullivan, Lillian<sup>6</sup> ; Sandén, Taru<sup>4</sup> ; Spiegel, Adelheid<sup>4</sup> ; Svoboda, Nikolai<sup>3</sup> ; Zechmeister-Boltenstern, Sophie<sup>5</sup> ; Klumpp, Katja<sup>7</sup>

Show affiliations

Initial release of the analysis on mid-term and long-term field experiments collected within task 7.3 of EJP SOIL.

Data was acquired and collected thanks to National Coordinators and LTE owners (sorted by country alphabetically) from

Austria (Pia Euteneuer, Lisa Makoschitz), Belgium (Joran Barbry, Franky Coopman, Tommy D'Hose, Bruno Huyghebaert, Stijn Martens, Joris De Nies, Bert Reubens, Veerle De Rycke, Tomas Vandesande), Czech Republic (Ladislav Menšík), Denmark (Bent T. Christensen, Jørgen Eriksen, Uffe Jørgensen, Lars J. Munkholm, Jørgen E. Olesen, Gitte H. Rubæk), Estonia (Alar Astover, Karin Kauer, Liina Talgre), Finland (Riitta Lemola), France (Aurore BRUT, Sabine Houot, Frida Keuper, Katja Klumpp, Frederic Launay, Frederique Louault, Thierry Morvan, Tiphaine TALLEC, Françoise Watteau), Hungary (Tóth Eszter, István Henzsel, Sándor Koós, Balázs Madarász, Mariann Makádi, László Radimsky, Péter Ragályi, Anita Szabó, Melinda Tar, Nikolett Uzinger), Ireland (David Wall), Italy (Roberto Barbeti, Gianluca Carboni, Mariangela Diacono, Paolo Mulé, Gaio Cesare Pacini, Baronti Silvia, Vincenzo Tabaglio, Domenico Ventrella, Nadia Vignozzi, Laura Zavattaro), Latvia (Janis Vigovskis), Lithuania (Virginijus Feiza, Grazina Kadziene, Danute Karcauskiene, Virmantas Povilaitis), Netherlands (Phillip Ehlert, Willem van Geel, Jantine van Middelkoop, Rene Schils, Wieke Vervuurt, Marie Wesselink), Norway (Trond Maukon Henriksen, Annbjørg Øverli Kristoffersen), Poland (Jacek Niedźwiecki), Portugal (Nadia Castanheira, Raquel Mano), Slovakia (Jaroslava Sobocka), Slovenia (Rok Mihelič), Spain (Jorge Alvaro-Fuentes, Jose A. Gomez, Carlos Garcia Izquierdo, César Plaza, Inés Santín-Montanyá), Sweden (Helena Aronsson, Örjan Berglund, Sabina Braun), Turkey (Ibrahim Ortas) and UK (Catalina Estrada, Dario Fornara, Jane Hawkins, Gareth Griffith, Marecia, Andy McDonald, Jonathan Millett, Robin Pakeman, Raj Whitlock).

### Files

**Makoschitz, Lisa - Department for Soil Health and Plant Nutrition, Austrian Agency for Health and Food Safety (AGES), Spargelfeldstrasse 191, 1220 Vienna, Austria**  
Role: Makoschitz-Lisa

401  
VIEWS

77  
DOWNLOADS

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### Versions

Version v1.0.1 Feb 2, 2023  
10.5281/zenodo.7598122

**Cite all versions?** You can cite all versions by using the DOI [10.5281/zenodo.7598121](https://doi.org/10.5281/zenodo.7598121). This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)

### External resources

Available in

**ejp7-3/lte-db**  
Release: v1.0.1

Indexed in

**OpenAIRE**

# Metadata workflow for national soil datasets in practice

The screenshot displays the geoportal.lt website interface. At the top, there is a search bar with the text "I'm looking for.." and a search button. The website header includes the logo "geoportal.lt" and navigation links for "home", "maps", "e-services", "search", "communities", "miscellaneous", "methodological information", "my portal", and "help".


The main content area is titled "SPATIAL DATASET SEARCH" and features a search bar with the text "soil". Below the search bar, there are filters for "National search", "Inspire search", "Dataset", "Services", and "Open data". A map of Lithuania is shown on the right, with various regions labeled. The search results are displayed in a table with columns for "Open data (INSPIRE)", "Title", "Publish date", "Revision date", "Frequency", "Author", and "Rating".

On the left side of the page, there are several panels. The "EJPSoil" panel provides information about the EJPSOIL catalogue. The "Dirvožemi" panel shows a map of Lithuania and details for the "Dirvožemi" dataset, including contact information for J. Kažys and metadata such as "Created: 6-6-2013" and "Updated: 6-6-2013". The "Spatia" panel shows details for the "Spatia" dataset, including contact information for National Land and metadata such as "Created: 2020 0" and "Updated: 2022-0".

At the bottom of the page, there is a footer with the text "pycsw 3.0.dev0" and a "how to use the portal?" link.

# Examples of functionality (D6.6) EJP SOIL Metadata Catalogue

https://catalogue.ejpsoil.eu/collections/metadata:main/items/3f507fd9-24c0-40ab-9328-2...



Home / Collections / EJPSoil catalogue / Items / Bodemlocaties JSON | XML | About | Conta

## Bodemlocaties

- Belgium
- EJP Country survey
- Bodem
- Bodemgebruik
- ondergrond
- bodemkaart
- bodemtextuur
- bodemprofiel
- bodemanalyse
- bodembiologie
- bodemchemie
- bodemkunde
- bodemkunde
- bodemlaag
- bodemproces
- bodemstructuur
- bodemvorming
- bodemdaling
- bodemdegradatie
- bodemerosie
- bodemfunctie
- bodemgebruik
- bodemgesteldheid
- bodemkwaliteit
- bodemlucht
- bodemorganisme
- bodemverdichting
- bodemverzuring
- bodemvocht
- bodemvochthuishouding
- bodemvruchtbaarheid
- doorsijpeling van water in de bodem
- DOV
- Vlaanderen
- Ondergrond
- Databank Ondergrond Vlaanderen
- Departement Omgeving
- Profielput
- Bodemprofielgegevens
- Regionaal
- Herbruikbaar
- Kosteloos
- Vlaamse Open data
- Toegevoegd GDI-VI
- Metadata GDI-VI-conform
- Metadata INSPIRE-conform
- Dataset

Een bodemlocatie is ofwel een profielput of een boring. Een boring is altijd één puntlocatie (x,y,z) en een profielput heeft minimum één en maximum twee puntlocaties (begin- en eindpunt van de profielput). Een profielput is een uitgegraven put in de bodem waarin profielbeschrijvingen, monsternames of bodemobservaties worden uitgevoerd. Een profielbeschrijving is een waarneming van bodemhorizonten en/of bodemlagen in een uitgegraven profielput. Een bodemhorizont is een visueel te onderscheiden deel van de bodem dat ontstaan is door omzetting van het moeder materiaal door pedogenetische processen of door het afzetten van organisch materiaal. Een bodemhorizont heeft voor de meeste bodemvariabelen homogene morfologische en analytische karakteristieken. Een bodemlaag daarentegen is ontstaan door niet-pedogenetische processen. Aan de hand van een profielput krijg je een beeld van de bodemkundige opbouw. Een boring is het resultaat van het boren in de ondergrond met verwijdering van bodem door middel van een gereedschap in de vorm van een holle buis. Aan de hand van dit opgeboorde bodemmateriaal worden bodembeschrijvingen, bodemobservaties en monsternames uitgevoerd. De bodemlocaties uit de 'Aardewerk-Vlaanderen-2010' databank worden afzonderlijk ontsloten in de datasets 'Bodemprofielen kartering Belgische bodemkaart' en 'Oppervlakte monsters kartering Belgische bodemkaart'.

**Contacts**  
**Vlaamse overheid, Departement Omgeving, Vlaams Planbureau voor Omgeving (VPO)**  
Role: pointOfContact  
Email: [vpo.omgeving@vlaanderen.be](mailto:vpo.omgeving@vlaanderen.be)  
Deliverypoint: Koning Albert II-laan 20 bus 8  
City: Brussel  
Postalcode: 1000  
Country: België  
Url: <https://www.omgevingvlaanderen.be>  
  
Role: distributor



Leaflet | Map data © OpenStreetMap contributors

### Temporal

Created: 2018-11-20  
Updated: 2023-11-08  
Temporal extent: 1999-12-31 - 1999-01-01










### Formats

- OGC:WFS
- OGC:WFS-2.0.0-http-get-capabilities
- OGC:WMS-1.3.0-http-get-capabilities
- GLG:KML-2.0-http-get-map
- OGC:WMS-1.3.0-http-get-map
- OGC:WMS
- OGC:WFS-2.0.0-http-get-feature
- WWW:LINK-1.0-http--related

### External identification

- <https://www.dov.vlaanderen.be/geonetwork/srv/metadata/3f507fd9-24c0-40ab-9328-29f0dff571fe>

### Links

-  [bodemlocaties](#)  
WFS-endpoint Bodemlocaties
-  [bodem:bodemlocaties](#)  
WFS-capabilities Bodemlocaties
-  [bodemlocaties](#)  
WMS-capabilities Bodemlocaties
-  [bodemlocaties](#)  
KML Bodemlocaties
-  [bodemlocaties](#)  
WMS-map Bodemlocaties
-  [bodemlocaties](#)  
WMS-endpoint Bodemlocaties
-  [bodemlocaties](#)  
WFS-feature Bodemlocaties
-  [DOV bodemverkenner](#)  
Link naar DOV bodemverkenner applicatie
-  [DOV-soil-database-for-Flanders](#)

# Examples of EJP SOIL Metadata Catalogue



Home / Collections / EJPSoil catalogue / Items / Global Soil Organic Carbon Map.

JSON | XML | About | Contact

## Global Soil Organic Carbon Map.

Italy EJP Country survey Dataset

mixed sampling type Topsoil 30 m. The method for SOC used was Springer and Klee and 'flash combustion elemental analyser'

### Contacts

CREA-FAO-GSP  
Role: pointOfContact  
Country: Italy

### Temporal

Created: 1990-2013  
Updated: 2022-01-01  
Temporal extent: 1990-2013

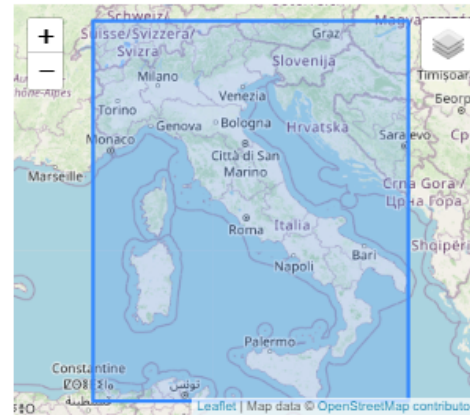
### Formats

### External identification

- <http://54.229.242.119/GSOCmap/>

### Links

[Global-Soil-Organic-Carbon-Map.](#)



Updated: 2024-06-05 [Edit me on GIT](#)

- How to pass on edits:
- Update on repository: e.g. INSPIRE, EU Data Portal, Zenodo, Institutional or other portal
- Edit me on GIT (requires account)
- Send an email via Contact (refer to EJP SOIL metadata catalogue, the fields you want to edit and the edit itself)

ed by pycsw 3.0.dev0



# Edit me on Git option

You're making changes in a project you don't have write access to. Submitting a change will write it to a new branch in your fork [mariafanta74/ejpsoidatahub](#), so you can send a pull request.

[ejpsoidatahub](#) / [datasets](#) / [countries](#) / [Italy](#) / `Global-Soil-Organic-Carb` in `main`

Cancel changes

Commit changes...

Edit Preview

```
1 mcf:
2   version: 1.0
3 metadata:
4   identifier: ELABORATION OF THE ITALIAN PORTION OF T
5   language: eng
6   charset: utf8
7   datestamp: 2022-01-01
8   hierarchylevel: dataset
9   dataseturi: https://zenodo.org/record/7746495
10 |
11 spatial:
12   resolution: 1000 M pixel/6748 total points used
13   datatype: GRID
14 identification:
15   language: null
16   charset: utf8
17   title: Global Soil Organic Carbon Map.
18   abstract: 'mixed sampling type Topsoil 30 m. The meC
19     and Klee and ''flash combustion elemental analyse
20
```

Propose changes

Commit message

Update of Global-Soil-Organic-Carbon-Map, the Italian portion.yml

Extended description

Add an optional extended description..

Cancel

Propose changes

Spaces

2

No wrap





## Elaboration of the Italian portion of the Global Soil Organic Carbon Map

[National](#) [Country Stocktake](#) [Italy](#) [EJP Country survey](#) [Dataset](#)

mixed sampling type Topsoil 30 m. The method for SOC used was 'elemental analyser'

### Contacts

CREA-FAO-GSP  
Role: pointOfContact  
Country: Italy

### Temporal

Created: 1990-2013  
Updated: 2022-01-01  
Temporal extent: 1990-2013

### Formats

### External identification

- <https://zenodo.org/record/7746495>

### Links


Powered by  pycsw 3.0.dev0

Published December 5, 2018 | Version 1.2.0

Dataset

Open

## ELABORATION OF THE ITALIAN PORTION OF THE GLOBAL SOIL ORGANIC CARBON MAP (GSOCMAP)

Maria Fantappiè<sup>1</sup> ; Costanza Calzolari<sup>2</sup> ; Fabrizio Ungaro<sup>3</sup> ; Ialina Vinci<sup>4</sup>; Paolo Giandon<sup>4</sup>; Adele Muscolo<sup>5</sup> ;  
Claudio Zaccone<sup>6</sup> ; Maria Teresa Dell'Abate<sup>1</sup> ; Giovanni L'Abate<sup>1</sup> ; Sergio Pellegrini<sup>1</sup> ; Stefano Brenna<sup>7</sup>;  
Francesca Staffilani<sup>8</sup>; Fabio Petrella<sup>9</sup> ; Lorenzo Gardin<sup>10</sup> ; Stefano Barbieri<sup>11</sup>; Stefano Pini<sup>12</sup>; Mauro Tiberi<sup>13</sup>;  
Raffaele Paone<sup>14</sup>; Luigi Scamarcio<sup>15</sup>; Amedeo D'Antonio<sup>16</sup>; Fabio Guaitoli<sup>17</sup>; Michele Munafò<sup>18</sup> ; Fiorenzo Fumanti<sup>19</sup> ;  
Rosario Napoli<sup>1</sup> ; Luigi D'Acqui<sup>19</sup> ; Paolo Martalò<sup>9</sup>; Paola Tarocco<sup>8</sup>; Edoardo A. C. Costantini<sup>1</sup> 


**Research group:** <https://www.crea.gov.it/en/web/agricoltura-e-ambiente/-/digital-soil-mapping><sup>1</sup>

The Global Soil Organic Carbon map (GSOCmap) published by the Food and Agriculture Organization constitutes a baseline estimation of soil organic carbon stock (CS, ton ha<sup>-1</sup>) from 0 to 30 cm, on a grid at 30 arc-seconds resolution (approximately 1 x 1 km). It has been produced for the Italian territory by the Italian Soil Partnership (ISP): a national hub of institutions dealing with soils, either academic/research institutions, and regional soil services (RSS). The RSS are the main soil data owners in Italy and play a central role in the elaboration of policies for soil management. The RSS adhering to the ISP are: Calabria, Campania, Emilia Romagna, Friuli Venezia Giulia, Liguria, Lombardia, Marche, Piemonte, Puglia, Sicilia, Toscana, and Veneto. A national soil database is maintained by the Consiglio per la Ricerca e l'Analisi dell'Economia Agraria (CREA). The RSS contributed with soil data, with mean density of 1 point per 50 square kilometres, selecting data analysed for soil organic carbon content (SOC, dag kg<sup>-1</sup>), which were representative and well distributed for the following environmental covariates: land use, geomorphology, and climate. The data were selected inbetween


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### Versions

Version 1.2.0

Dec 5, 2018

[10.5281/zenodo.7746495](https://zenodo.org/record/7746495)

**Cite all versions?** You can cite all versions by using the DOI [10.5281/zenodo.7746494](https://doi.org/10.5281/zenodo.7746494). This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)

### External resources

Indexed in

 OpenAIRE

## How to pass on edits

- Update on repository:  
e.g. INSPIRE, EU Data Portal, Zenodo, Institutional or other portal so the metadata of the DOI is updated

If you want to change the DOI/source or if the record is the result of the national stocktakes:

- Edit me on GIT (requires git account)
- Send an email via Contact (refer to EJP SOIL metadata catalogue, the fields you want to edits and the edits itself)

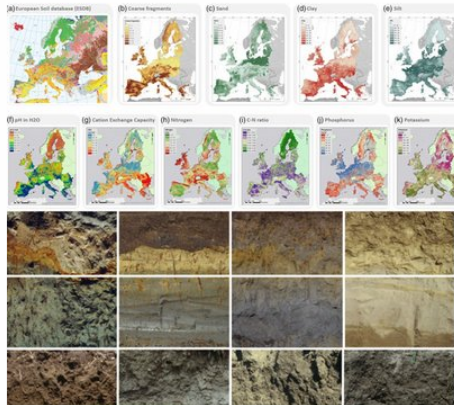
# 1) MAKE DATA FINDABLE =>> upload in online metadata catalogues



About EJP SOIL ▾ Research ▾ Science to policy Knowledge Sharing Platform ▾ GM & Annual Science Days ▾

[EJP SOIL](#) > [Research](#) > Soil data & Monitoring, mapping and modelling

## Soil data & Monitoring, mapping and modelling



### Search the Soil data catalogue system

The soil data catalogue is a user friendly search experience.

The catalogue contains:

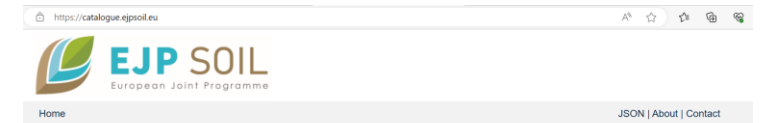
- Data products produced in the EJP SOIL and in the wider Soil community
- An overview of national datasets

Visit the csoil data catalogue via one of the following two points of access:

- The searchable interface: <https://catalogue.ejpsoil.eu>
- A GIT repository [GitHub - ejpsoil/ejpsoildatahub](#) (The source of the metadata).

An aspect of the catalogue system is a minimal metadata template in Excel, developed to provide a minimalistic approach to bulk loading records into the catalogue. Alternative available bulk loading initiatives are importing from CSW and DOI (harvesting).

In case you identify potential improvements, create an issue on the git repository or submit an improvement.



### EJPSoil catalogue

\*These pages present a set of datasets collected in the scope of the EJP Soil project.

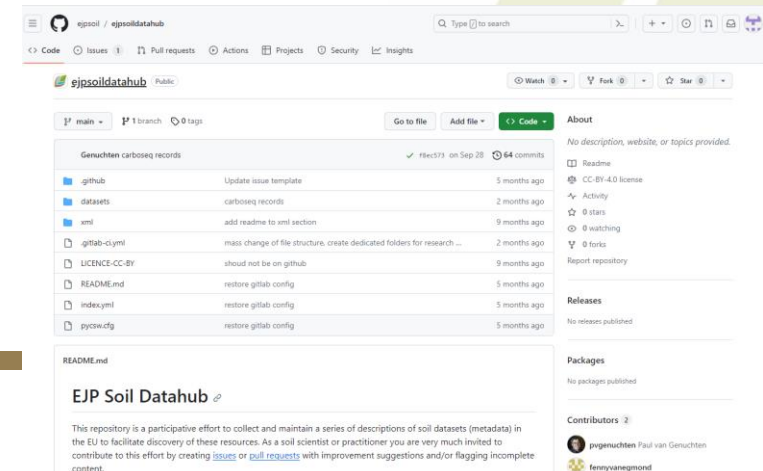
EJP SOIL is a European Joint Programme Confund on Agricultural Soil Management contributing to key societal challenges including climate change, water and future food security.

The objectives are to develop knowledge, tools and an integrated research community to foster climate-smart sustainable agricultural soil management that: Allows sustainable food production, Sustains soil biodiversity, Sustains soil functions that preserves ecosystem services. EJP Soil is supported by the European Commission through the Horizon 2020 European Union funding for Research & Innovation.\*

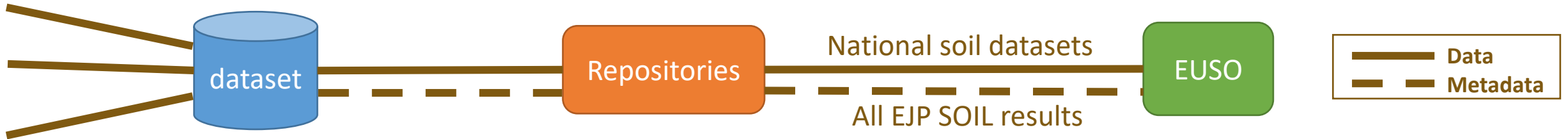
### Search the catalogue

Search

### Recent changes



# Workflow Metadata Catalogue EJP SOIL



- 'D6.8 Final version of the agricultural soil information system for EU populated with the final version of project datasets' due M59
- **We need your assistance to:**
  - Report your EJP SOIL produced data using the continuous reporting template (gender and data) using DOI
  - Check you national reported datasets (National Coordinators)
- Please find guidance on how to deposit your data in a repository here: <https://ejpsoil.github.io/soildata-assimilation-guidance/cookbook/zenodo.html>

Remember: all deliverables of internal projects are public!

## EJP SOIL Deliverables

Are the deliverables scientifically meaningful?

E.g. intermediate versions of reports, meeting minutes...

YES

NO

Action: Publish deliverables

Action: Not to publish

Scientific publication/  
Manuscripts

Datasets

Dataset involved

YES

Remember to report all datasets to WP1 Excel (by project coordinator, through WP3). The WP1 Excel and your project DMP should match!

Which type of dataset?

Open: Upload to Zenodo

Open with embargo: Upload to Zenodo

Closed (produced outside EJP SOIL): no deposition

Report *metadata* from datasets without DOI to EJPSOIL metadata catalogue  
<https://catalogue.ejpsoil.eu/>

# Workflow Reporting EJP SOIL

**WP1-WP6-WP9**



**EJP SOIL**  
European Joint Programme

EJP SOIL has received  
funding from the European  
Union's Horizon 2020  
research and innovation  
programme: Grant  
agreement No 862695



Remember: all deliverables of internal projects are public!

**Deliverables from internal projects**  
*Submit to EJP SOIL WP3 SharePoint*

Are the deliverables scientifically meaningful?

E.g. intermediate versions of reports, meeting minutes...

**Action: Publish deliverables**

Scientific publication/  
Manuscripts

Reports

Datasets

**Action: Not to publish**

**Author** stores in institutional repository or Zenodo (embargo possible)

Remember to report all datasets to WP1 Excel (by project coordinator, through WP3). The WP1 Excel and your project DMP should match!

Dataset involved

Which type of dataset?  
Open: Upload to Zenodo  
Open with embargo: Upload to Zenodo  
Closed (produced outside EJP SOIL): no deposition

**WHO?**

**Project coordinator** takes care that deliverables are uploaded to the SharePoint, and reports datasets to WP1.

**WP3** sends the project coordinator a confirmation that the deliverable is in an acceptable format.

**Project team** discusses which deliverables are scientifically meaningful, **project coordinator** takes the decision.

**Author** reports DOIs of deliverables and publications to PCR, and **project coordinator** DOIs of datasets to WP1/WP3.

**PCR** continuously reports DOIs of deliverables and publications to WP9 template.

Report *metadata* from datasets without DOI to EJPSOIL metadata catalogue  
<https://catalogue.ejpsoil.eu/>



## More questions can be asked also beyond this webinar

- For more questions, please reach out to us or join the Questions session:  
**Monday 9 September 16 hr**
  - [Join the meeting now](#)
  - Meeting ID: 384 533 044 950
  - Passcode: 3fgvc4
- 
- Is it useful to have more question hours later on in October, e.g. given the Data Management Plan update, projects that are ending etc.?