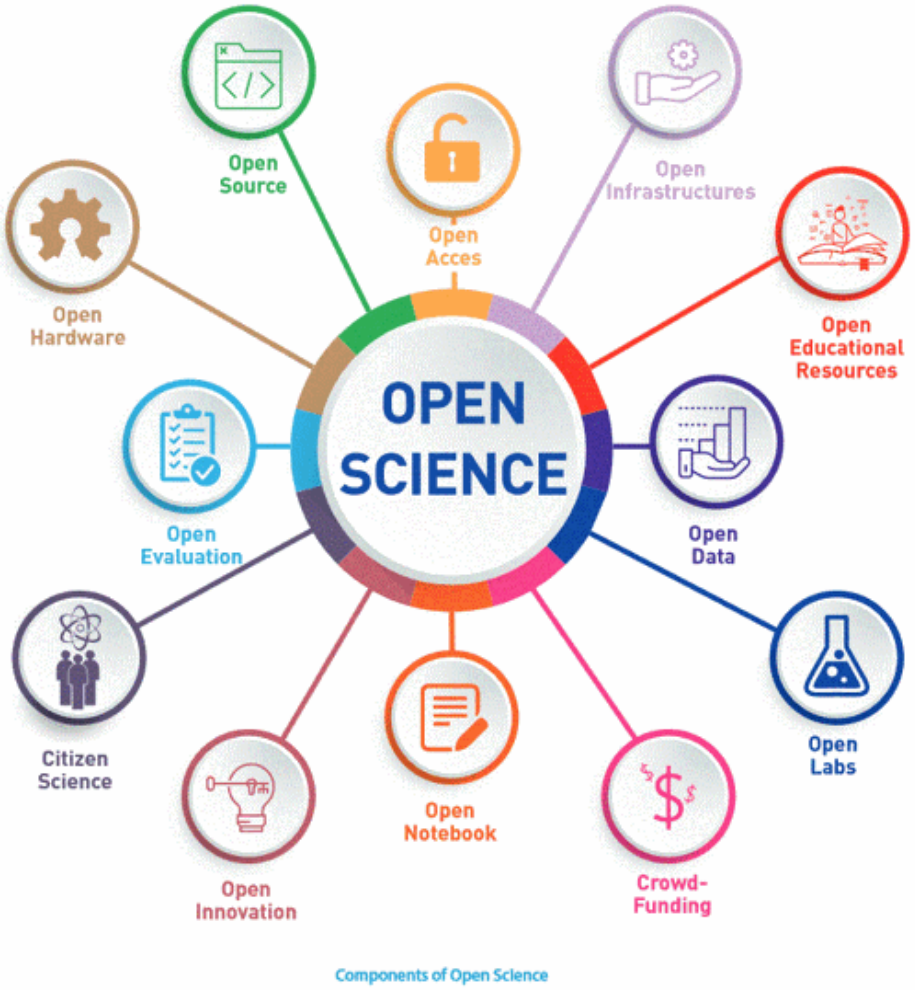
# Open Science: Storage, publication and sharing of EJP SOIL results

| | |
|---|---|
| 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

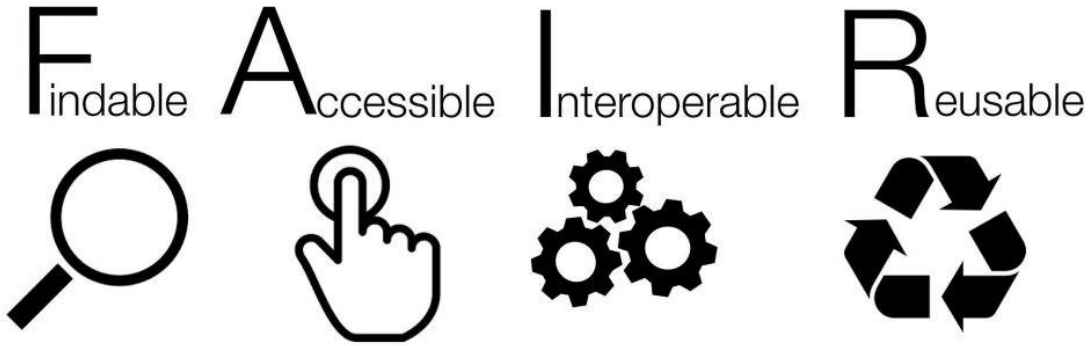
EJP SOIL has received funding from the European Union's Horizon 2020 research and innovation programme: Grant agreement No 862695

# Open Science principles



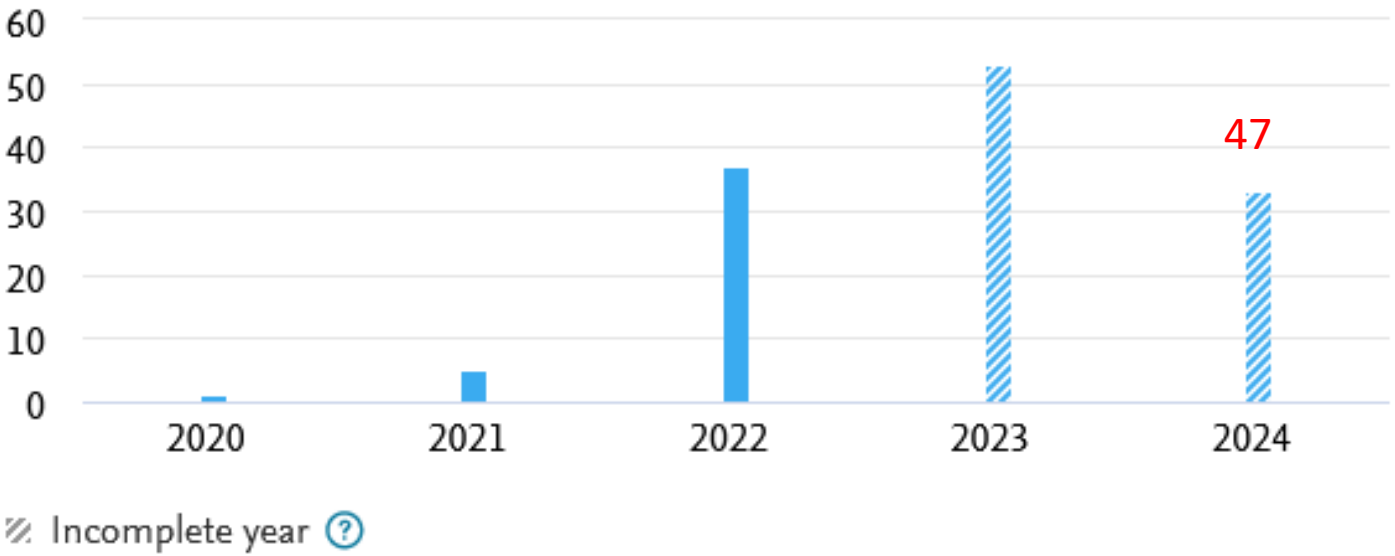

*https://soc.kuleuven.be/mintlab/blog/news/opensciencediscourse/*

for ourselves and others




*https://nl.wikipedia.org/wiki/FAIR-principes#/media/Bestand:FAIR_data_principles.jpg*

# EJP SOIL peer-reviewed publications




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

*Information from April 2024*

# EJP SOIL Data

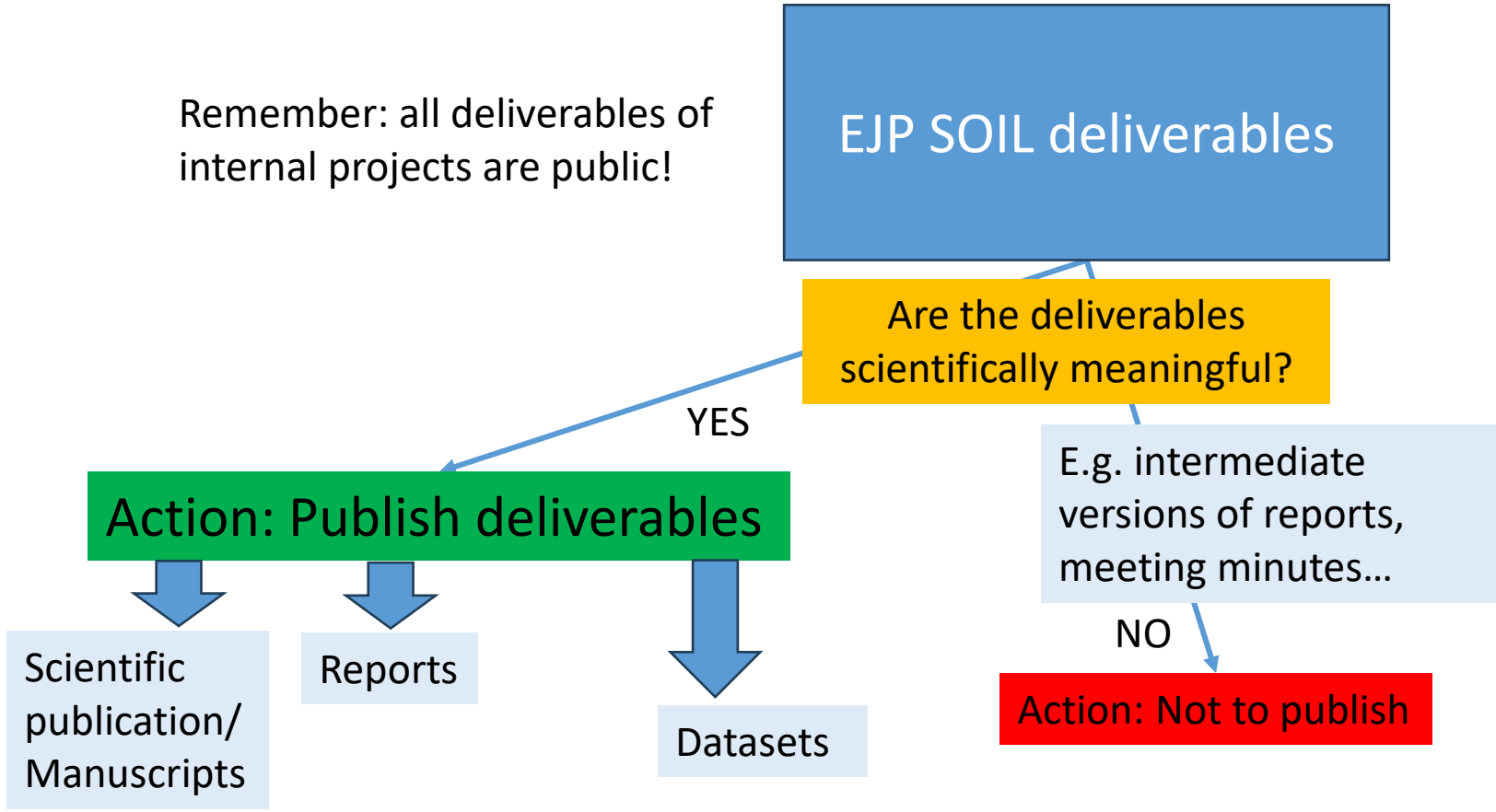
## Open Data

**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:
# Open Access for publications, reports and underlying data

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

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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

# Option 1: GOLD / with publisher

a. Check for Open Access arrangements with your institute

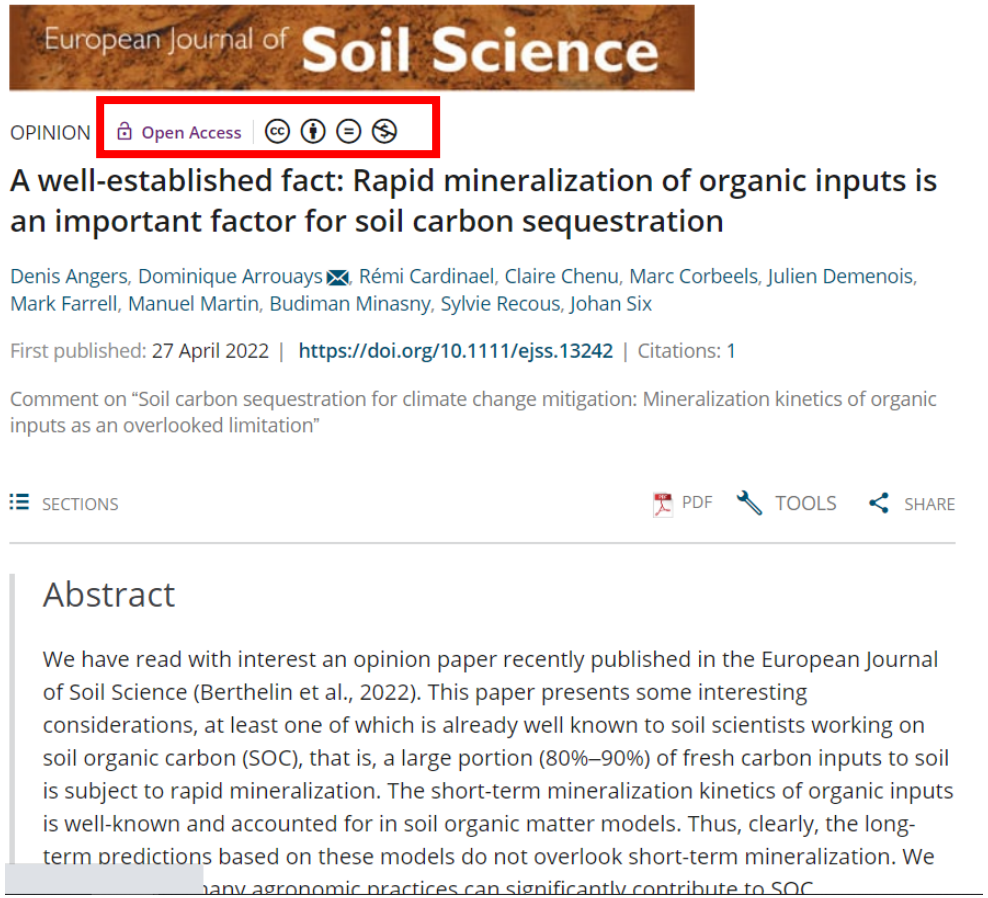
b. Upon publication: deposit in Zenodo or Institutional Repository: metadata +pdf

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 Demenois, Mark Farrell, Manuel Martin, Budiman Minasny, Sylvie Recous, Johan Six

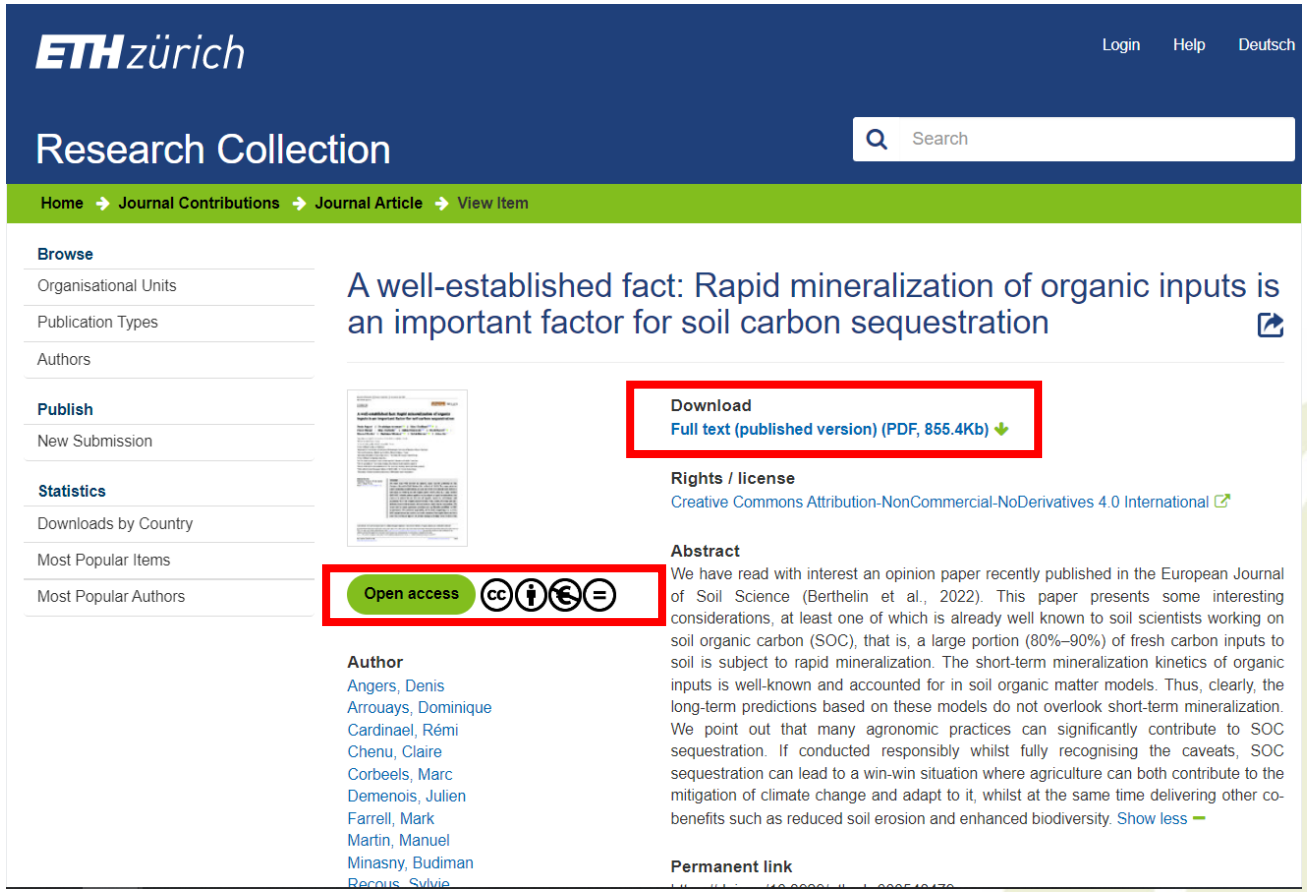
First published: 27 April 2022 | https://doi.org/10.1111/ejss.13242 | Citations: 1

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



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

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Full text (published version) (PDF, 855.4Kb)

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Open access

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

Author

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

Permanent link

# Option 2

## Article is NOT published Open Access ->

## GREEN Open Access (self-archiving)

a. Max embargo of 6 months (12 months for social sciences)

b. After manuscript acceptance and **before publication**: ask permission from publisher for self-archiving (template letter)

c. Deposit article Open Access in Zenodo or institutional repository

d. In EJP SOIL continuous reporting template: report repository link and embargo period

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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; Aleksi 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, facorial 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 $ha^{-1}$ $yr^{-1}$, 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 $ha^{-1}yr^{-1}$. 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.agsy.2023.103671

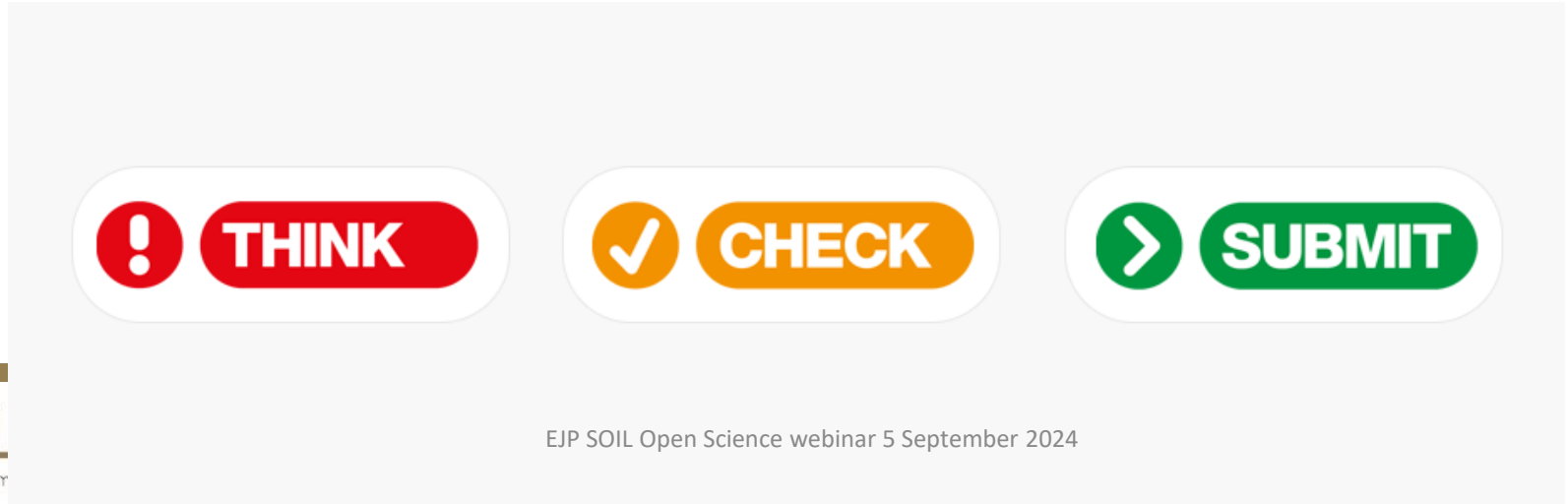
**Grants:**
European Commission:
- EJP SOIL - Towards climate-smart sustainable management of agricultural soils (862695)

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

EJP European J

OPEN ACCESS

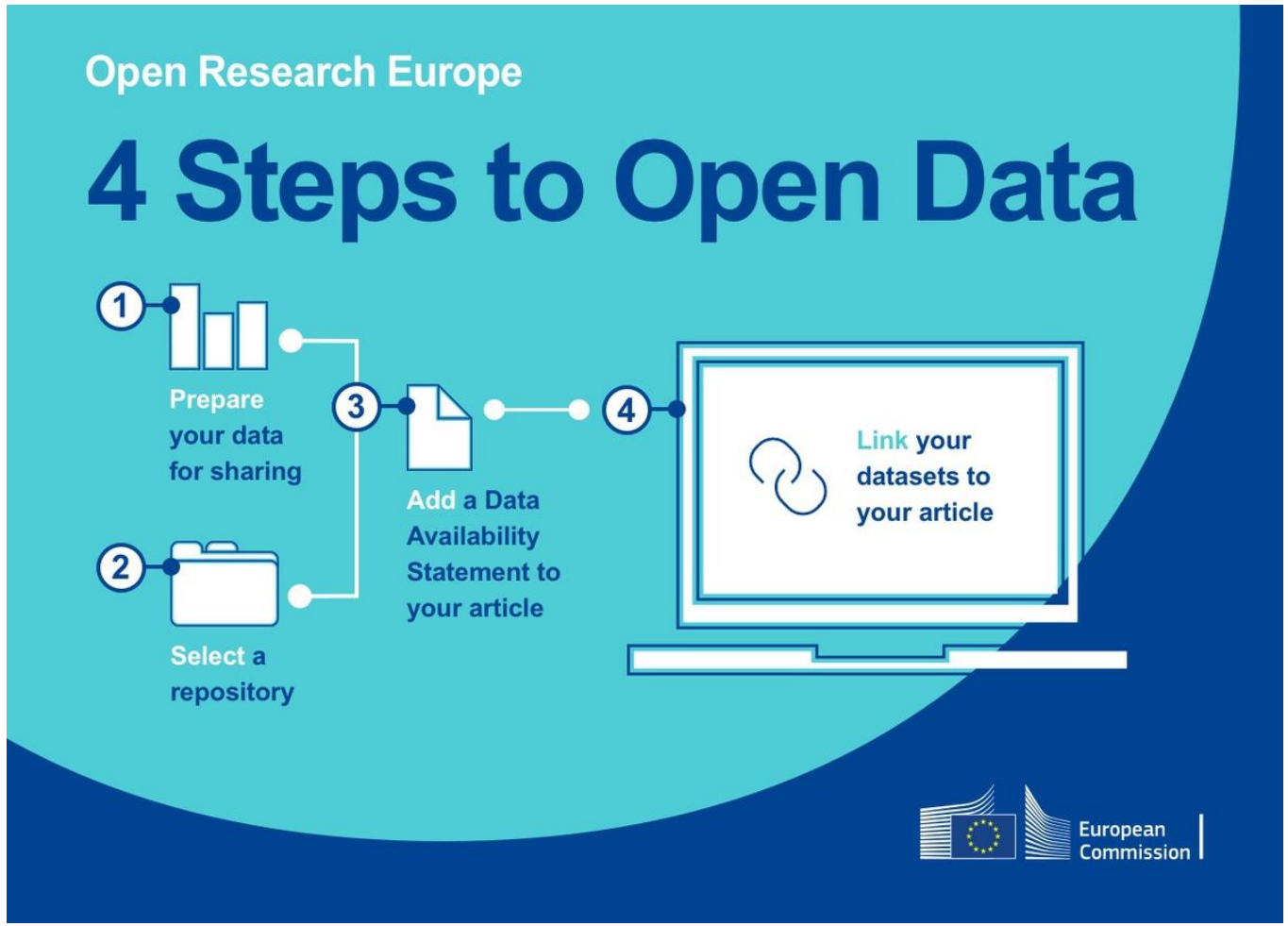
- Consider Open Access options when selecting a journal for publication
- Be aware of predatory publishers: checklist to identify a trusted journal
- Tool by the Finnish scientific community: classification of journals



# 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

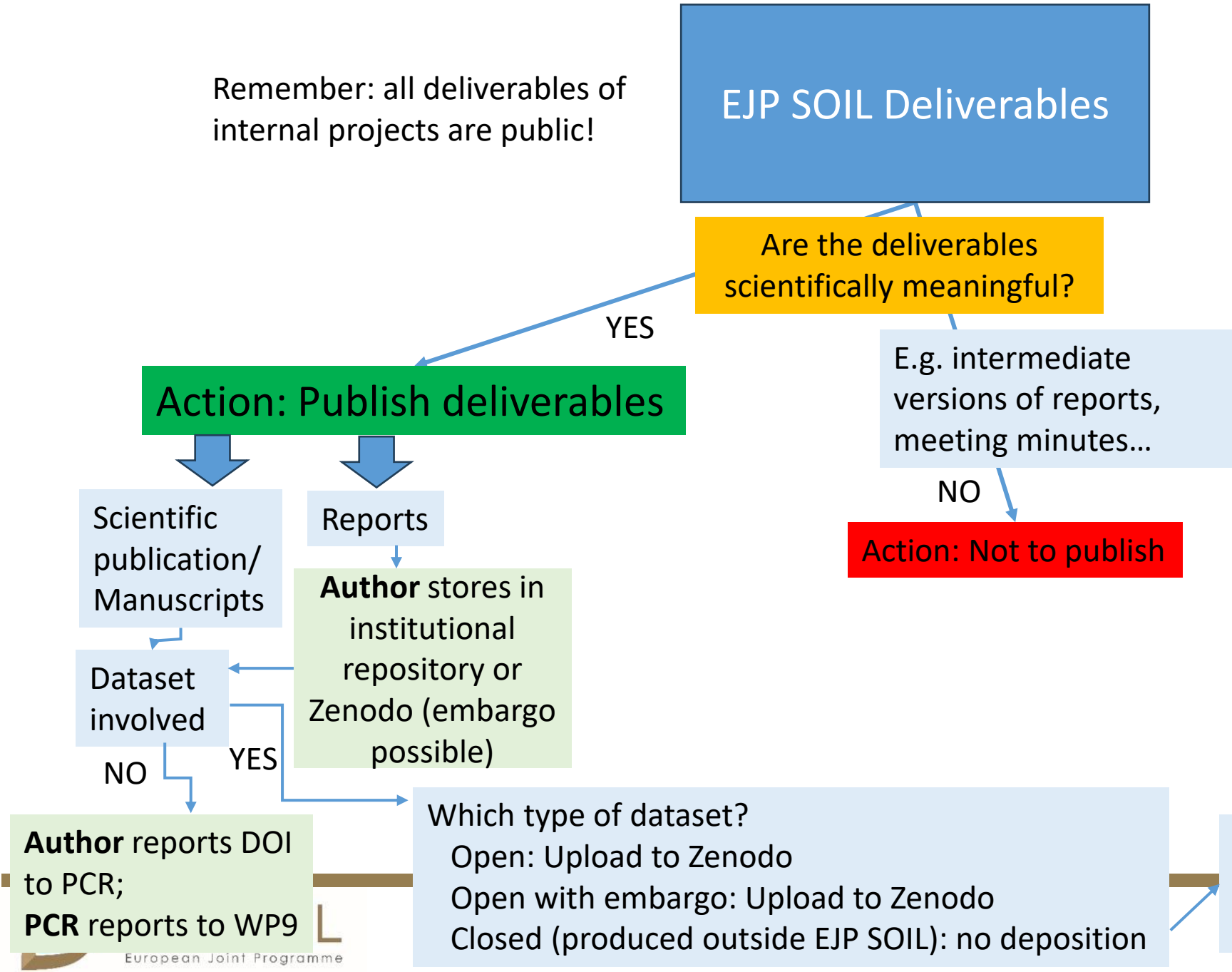
- Deposit data (and metadata) in an eligible Repository
- Provide DOI -> dataset becomes a publication
- CC BY license
- Link dataset to article, link article to dataset
- NOT as supplementary material with publisher

# What is reported to EC-H2020?

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).

- 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*

Remember: all deliverables of internal projects are public!



# 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

# Sharing soil data: metadata and repositories

**Maria Fantappiè (maria.fantappie@crea.gov.it)**

**&**

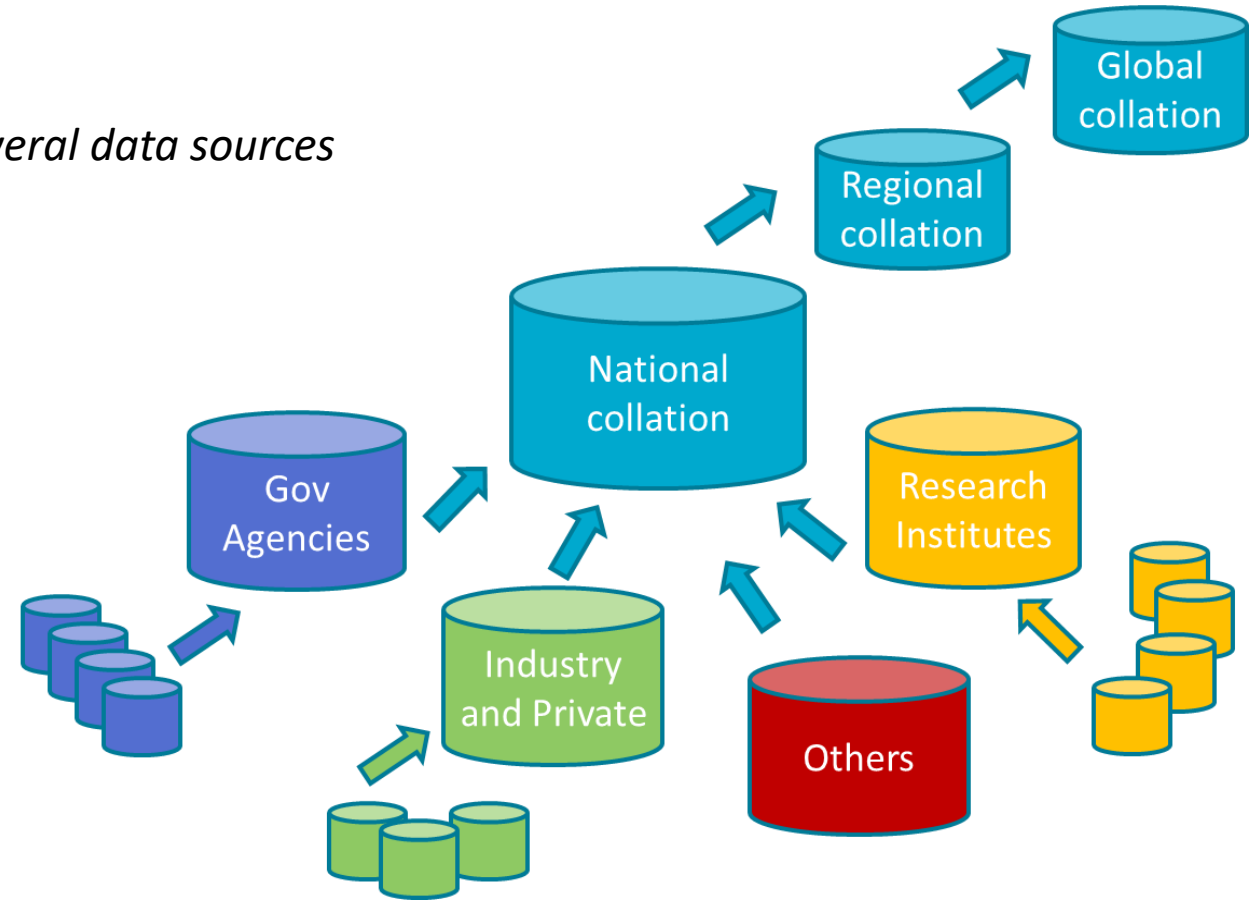
**Fenny van Egmond (fenny.vanegmond@wur.nl)**

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

# 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.

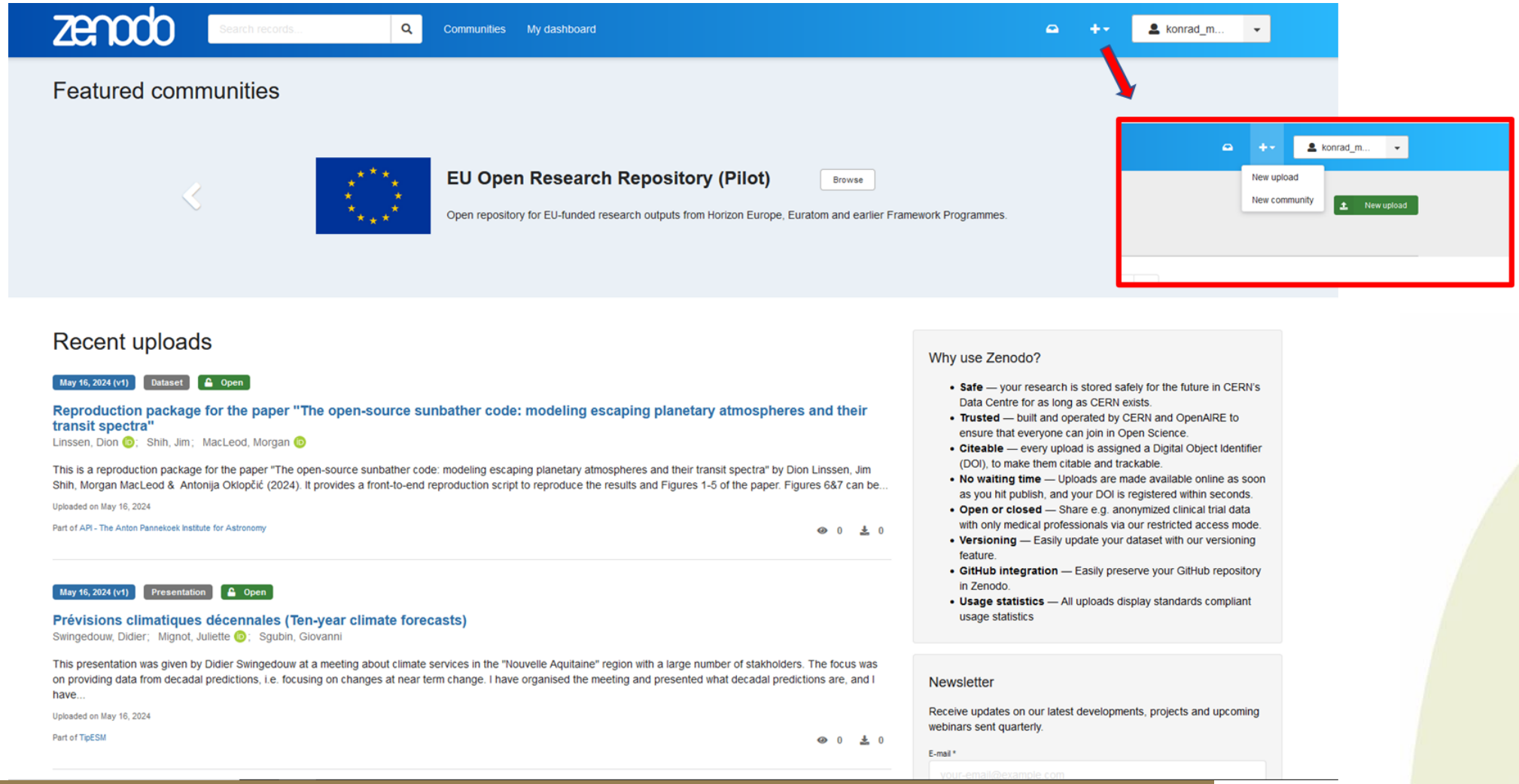
permanent repositories

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

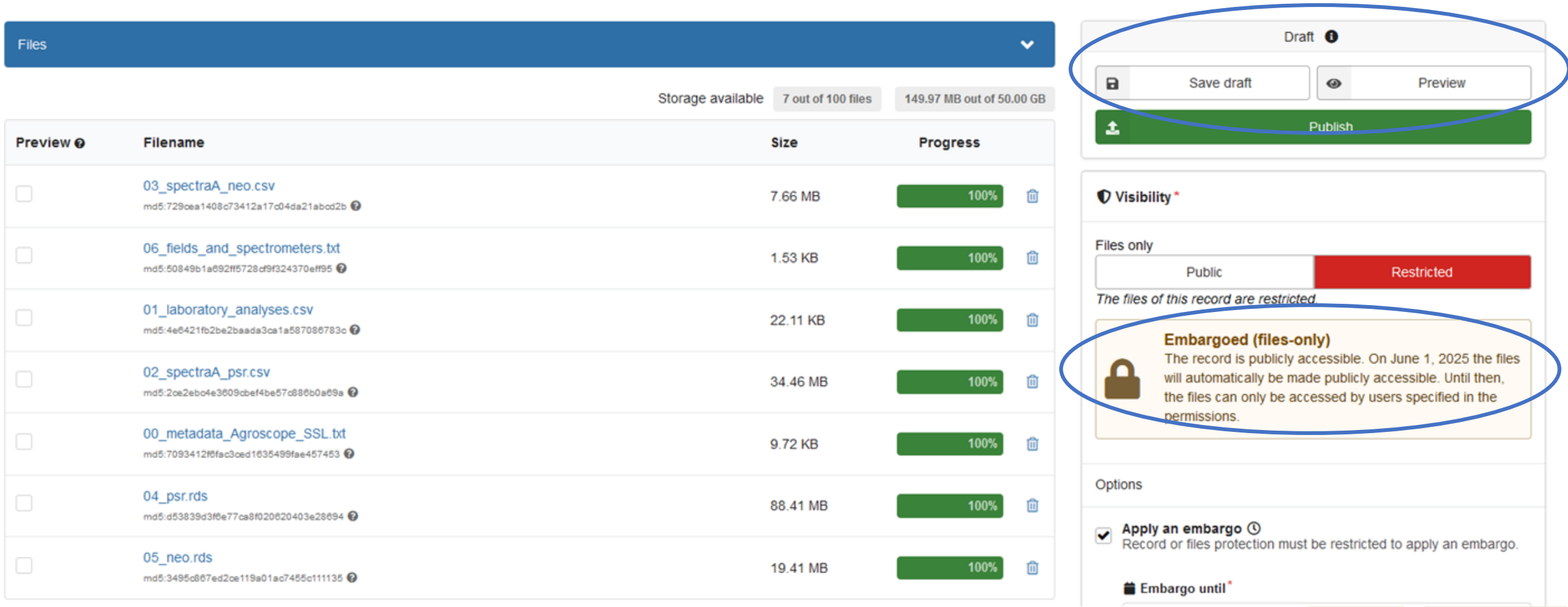
# Data deposition in repositories

- 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

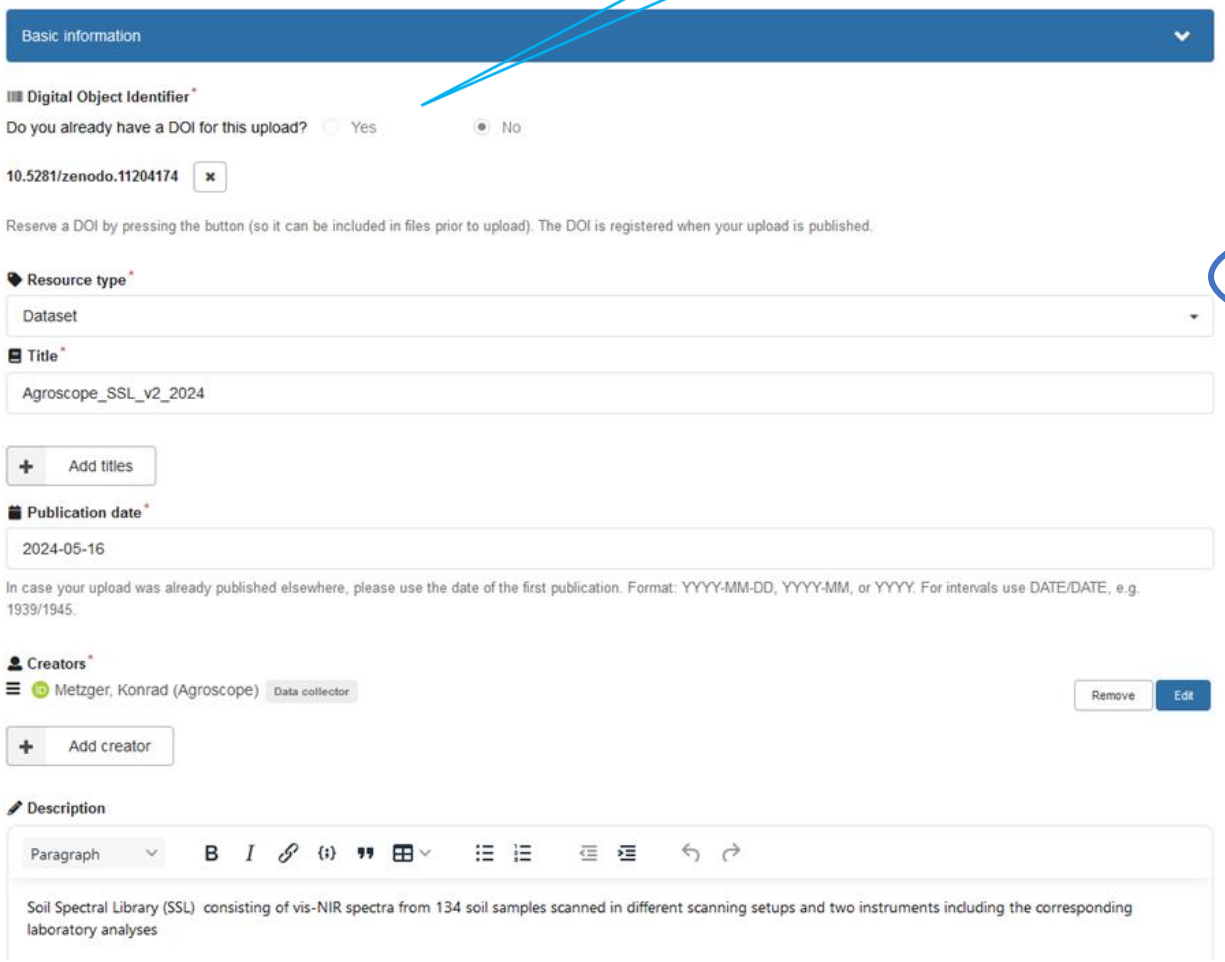


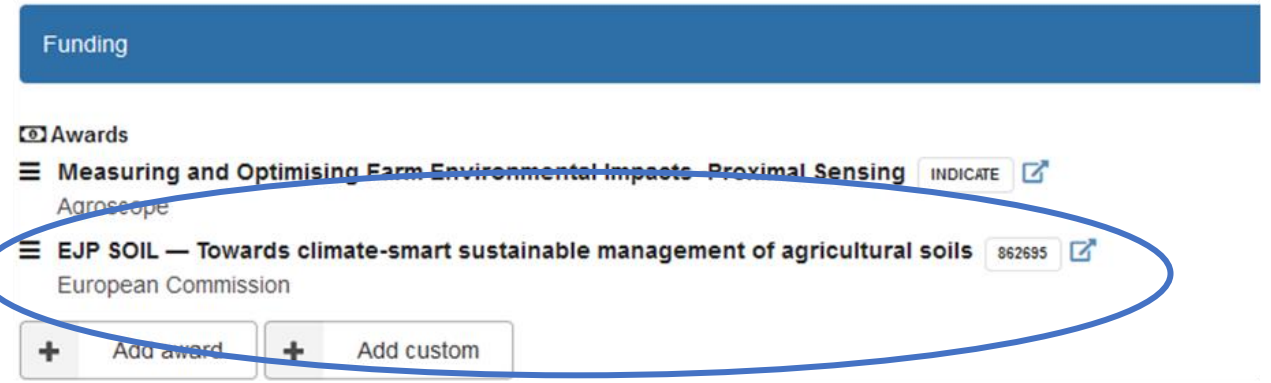
# ZENODO – ProbeField example

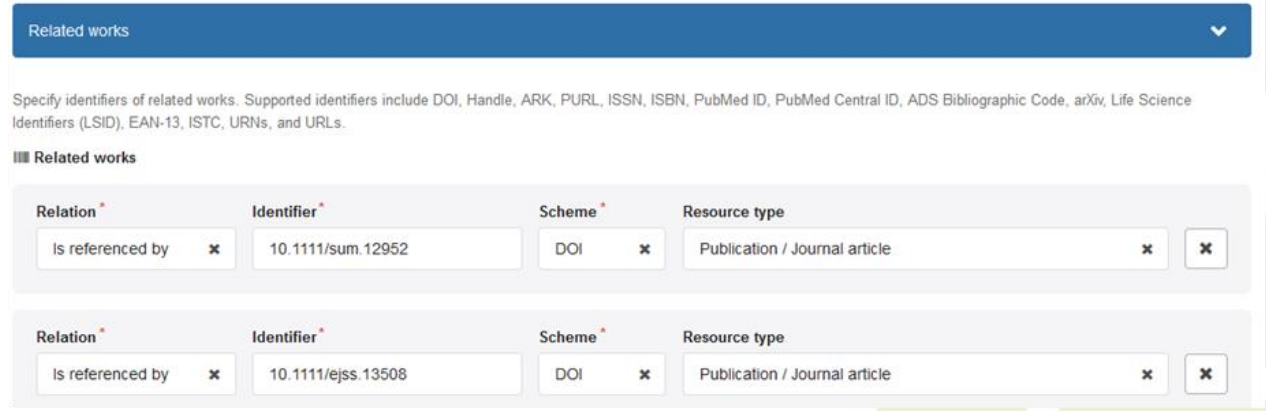


# ZENODO ProbeField example

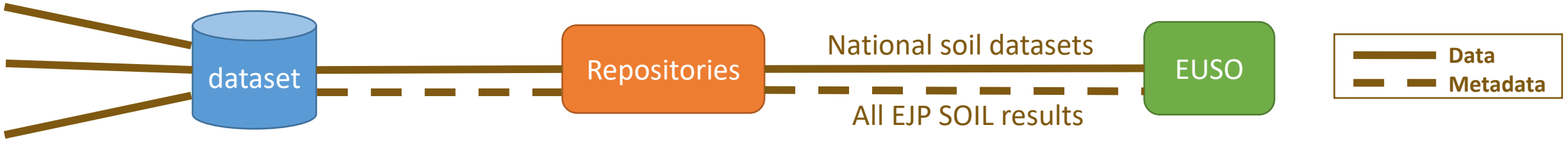
DOI!!!



# Workflow Metadata Catalogue EJP SOIL

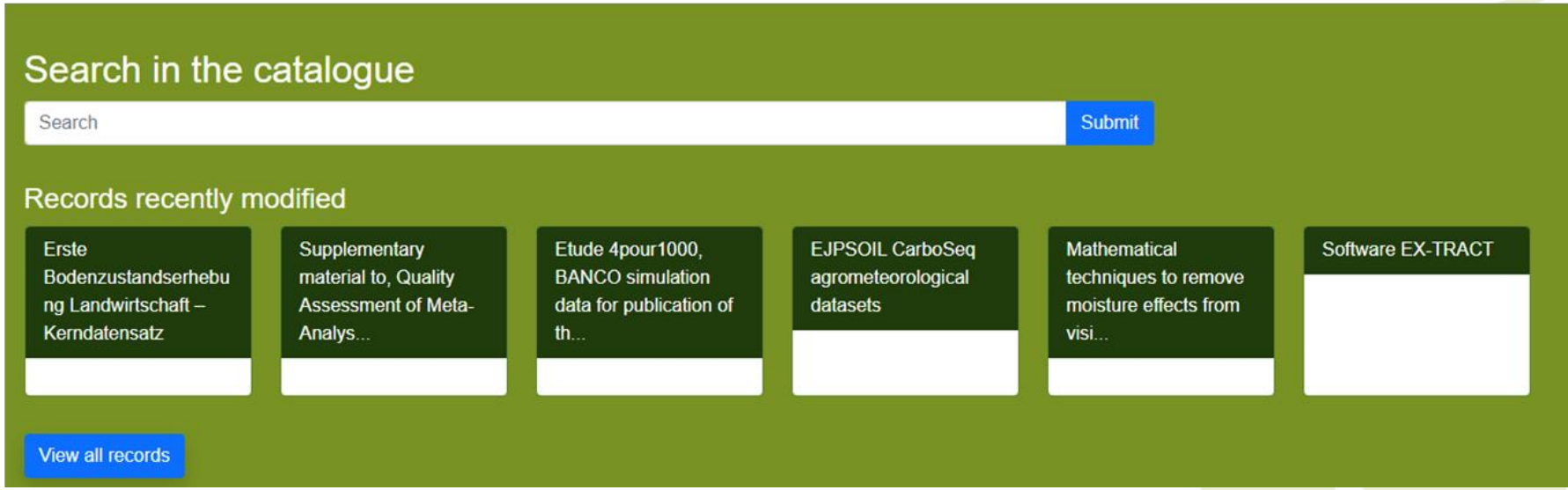



Contains: - Data produced in the EJP SOIL
- National datasets

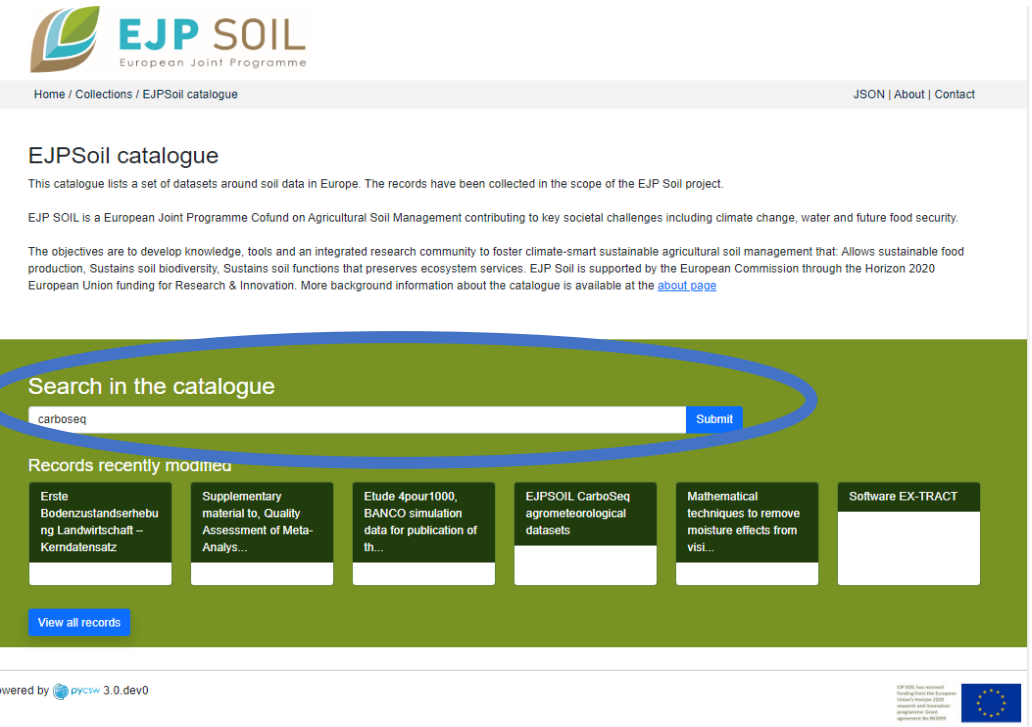
https://catalogue.ejpsoil.eu/

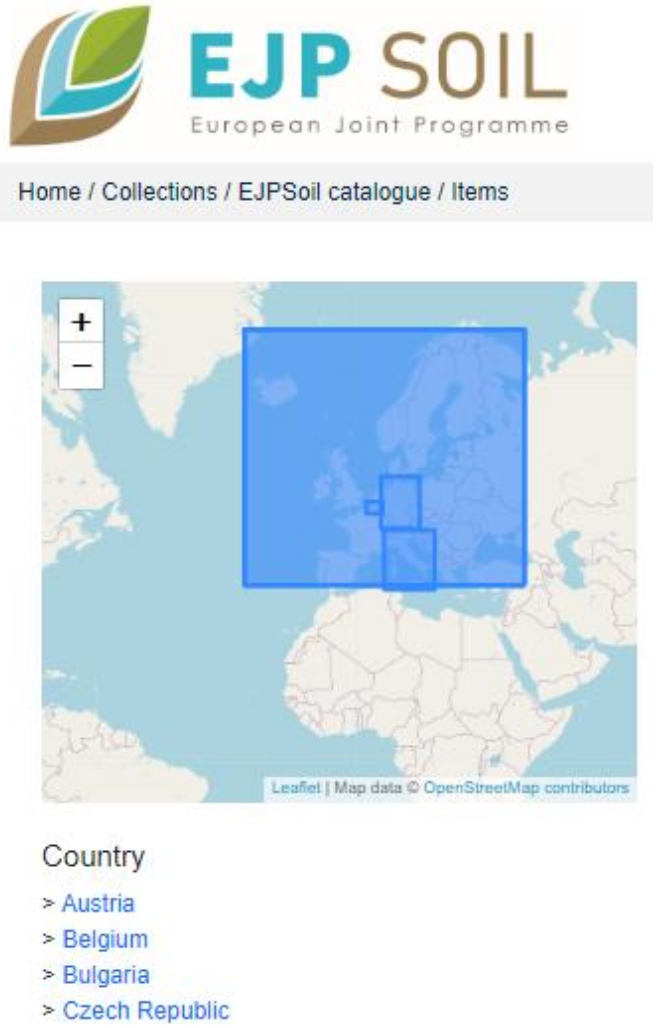
Cookbook for guidance:

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



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




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

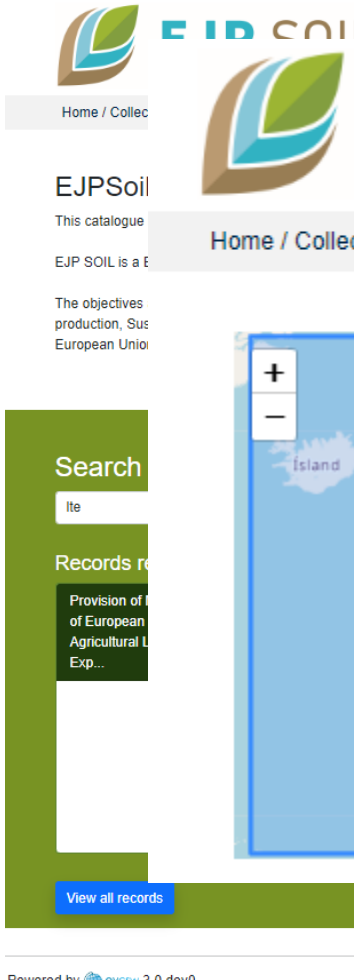
> Dataset
> Document
> Service
> Software
> Project

# 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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European EJPSo

Initial release of t
Data was acquire
from Austria (Pia
Huyghebaert, Sti
(Ladislav Menšík
Olesen, Gitte H.
BRUT, Sabine H
TALLEC, Franco
Makádi, László R
(Roberto Barbett
Tabaglio, Domen
Grazina Kadzien
van Middelkoop,
Øverli Kristoffers
Sobocka), Slover
Plaza, Inés Santi
and UK (Catalina
Robin Pakeman,

Contacts

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Url: https://orcid.
**D'Hose, Tommy**
Role: D'Hose-Tor
Url: https://orcid.
**Donmez, Cenk -**
**Cukurova Unive**
**Turkey**
Role: Donmez-C
Url: https://orcid.
**Hoffmann, Cars**
**Germany**
Role: Hoffmann-
Url: https://orcid.

**Svoboda, Nikolai -**
**Germany**
Role: Svoboda-Niko
Url: https://orcid.org
**Zechmeister-Bolte**
**University of Natu**
Role: Zechmeister-
Url: https://orcid.org
**Klumpp, Katja - Ins**
Role: Klumpp-Katja
Url: https://orcid.org

Temporal

Updated: 2024-09-0
Temporal extent: 20

Formats

External identifi

- http://doi.org/10

Links

10.5281/z
https://doi

d by pycsw 3.0.dev

**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

zenodo

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Published February 2, 2023 | Version v1.0.1 Software Open

## EJP MTE/LTE metadataset v1.0.1

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

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, Francoise Watteau), Hungary (Tóth Eszter, István Henzsel, Sándor Koós, Balázs Madarász, Mariann Makádi, László Radimszky, Péter Ragályi, Anita Szabó, Melinda Tar, Nikolett Uzinger), Ireland (David Wall), Italy (Roberto Barbetti, 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

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. This DOI represents all versions, and will always resolve to the latest one. Read more.

External resources

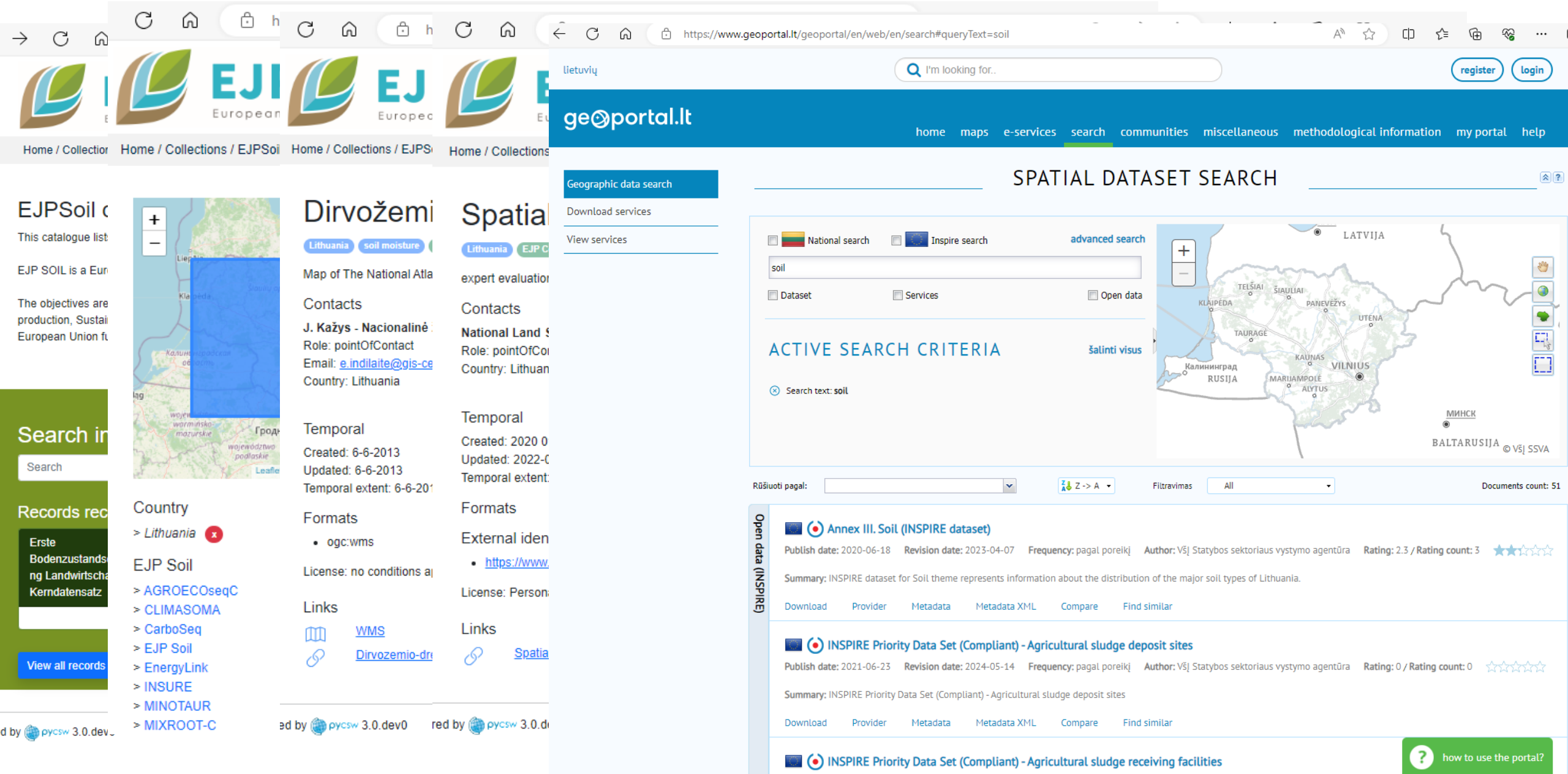
Available in

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

Indexed in

OpenAIRE

# Metadata workflow for national soil datasets in practice



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

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

EJP SOIL
European Joint Programme

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-Vl | Metadata GDI-Vl-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 moedermateriaal 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 'Oppervlaktemonsters kartering Belgische bodemkaart'.

### Contacts

**Vlaamse overheid, Departement Omgeving, Vlaams Planbureau voor Omgeving (VPO)**
Role: pointOfContact
Email: 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

### 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

EJP SOIL
European Joint Programme

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

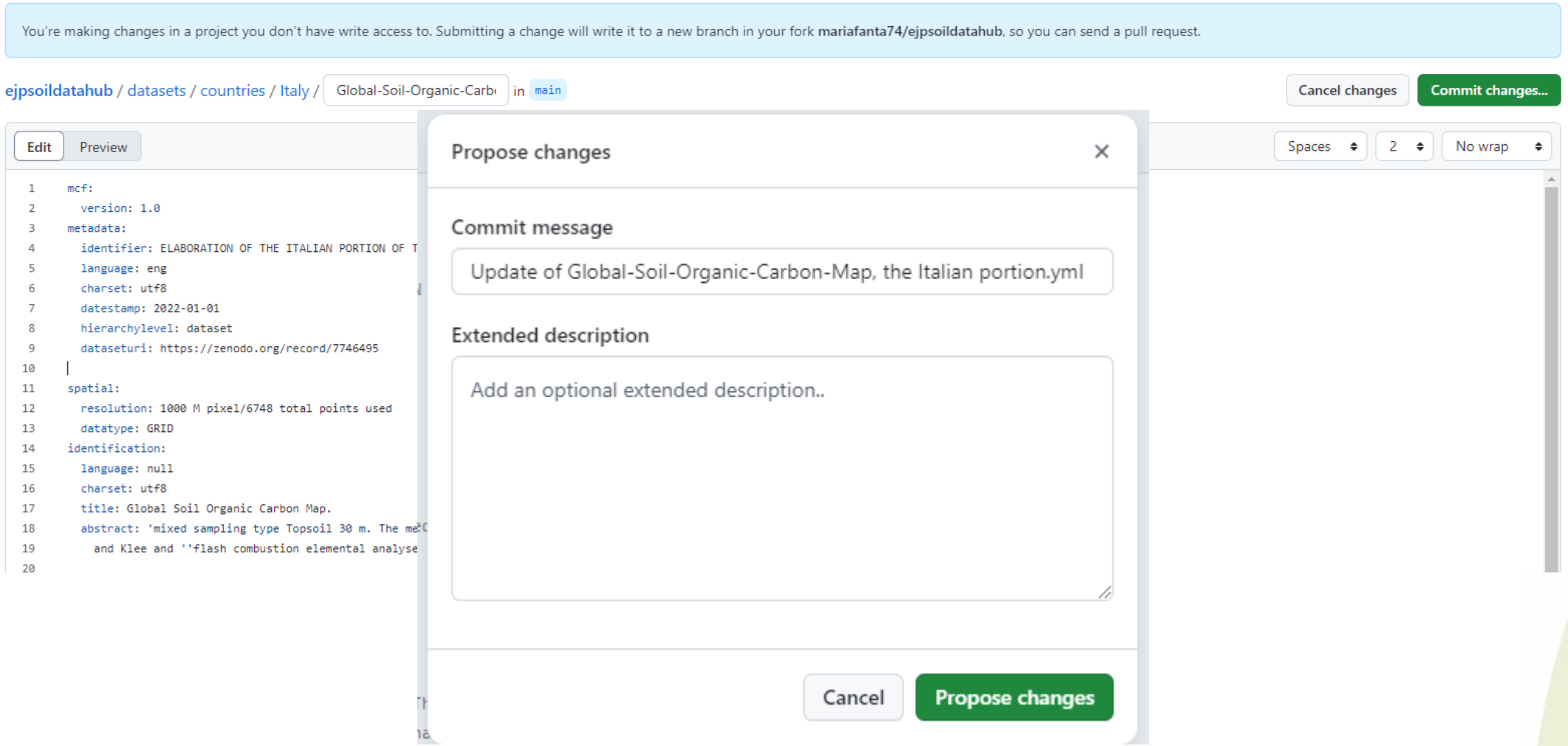
Global-Soil-Organic-Carbon-Map.

Updated: 2024-06-05 Edit me on GIT

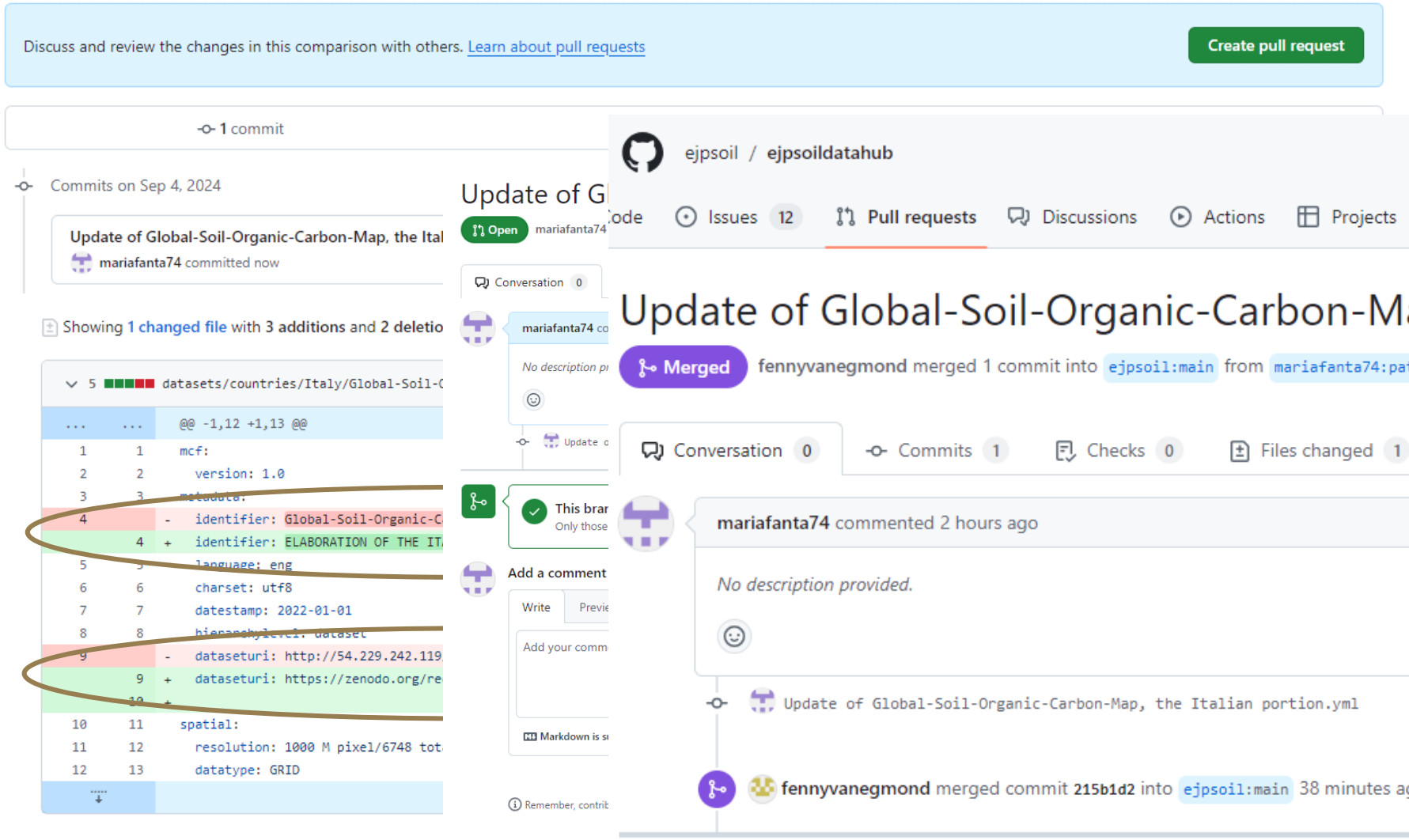
ed by pycsw 3.0.dev0

- 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 edits and the edits itself

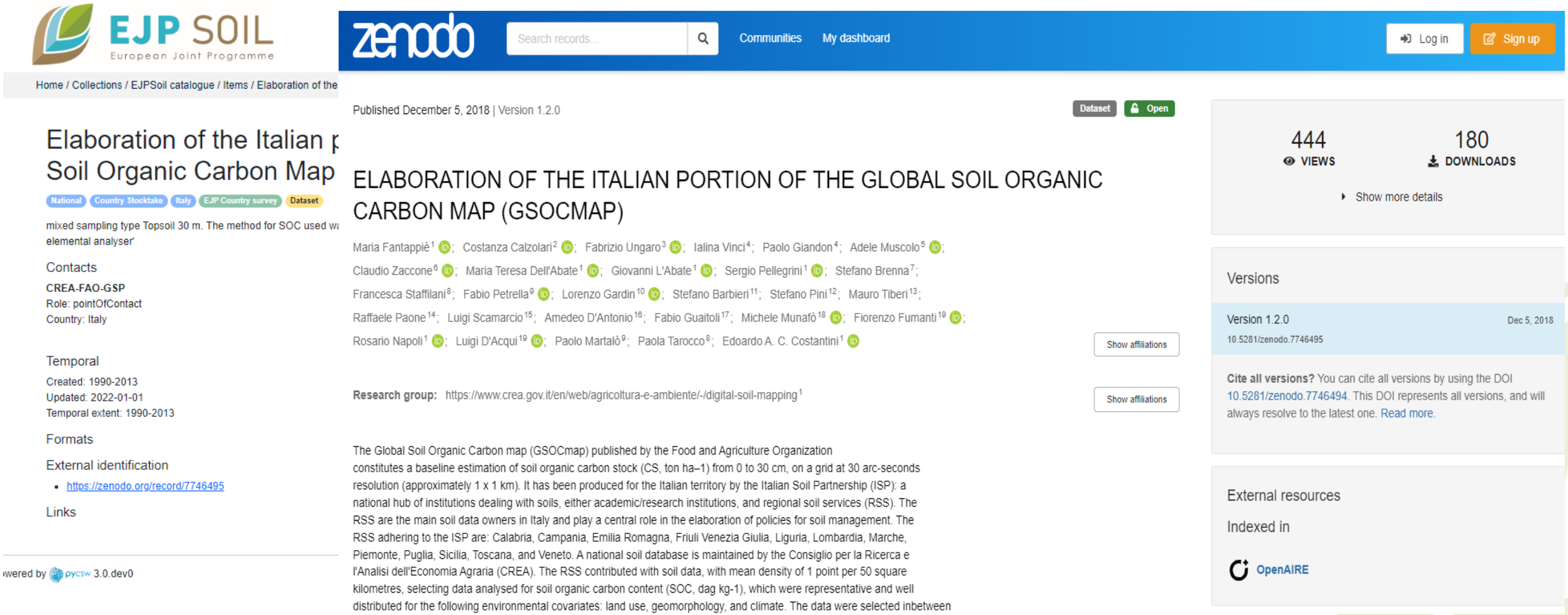
# Edit me on Git option



# Edit me on Git option



# Result



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zenodo

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Home / Collections / EJPSoil catalogue / Items / Elaboration of the

Elaboration of the Italian p
Soil Organic Carbon Map

National Country Stocktake Italy EJP Country survey Dataset

mixed sampling type Topsoil 30 m. The method for SOC used wa
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

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

Show affiliations

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

Show affiliations

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–1) 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-1), 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

**Cite all versions?** You can cite all versions by using the DOI 10.5281/zenodo.7746494. This DOI represents all versions, and will always resolve to the latest one. Read more.

External resources

Indexed in

OpenAIRE

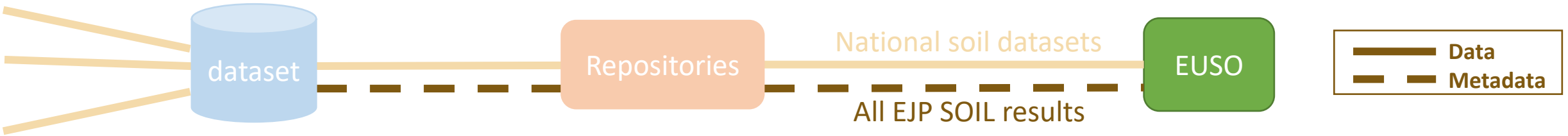
# How to pass on edits

- 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

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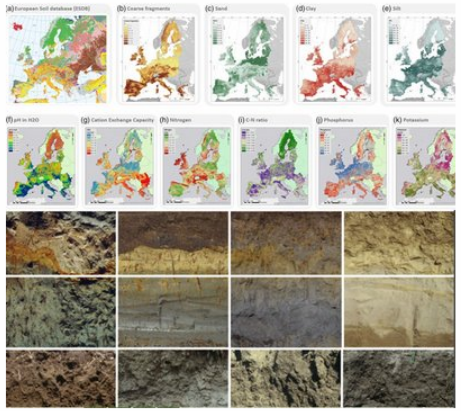
About EJP SOIL | Research | Science to policy | Knowledge Sharing Platform | GM & Annual Science Days

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:

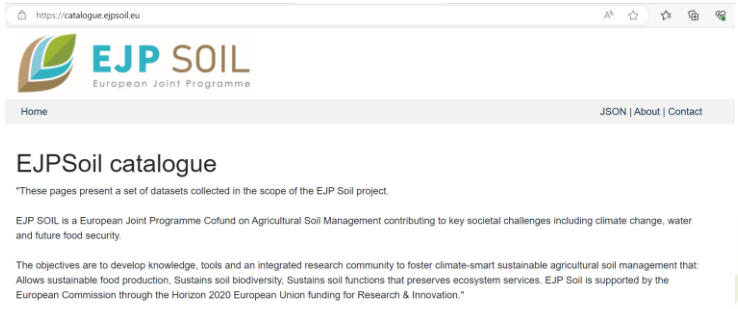
- Data products produced in the EJP SOIL and in the wider Soil community
- An overview of national datasets

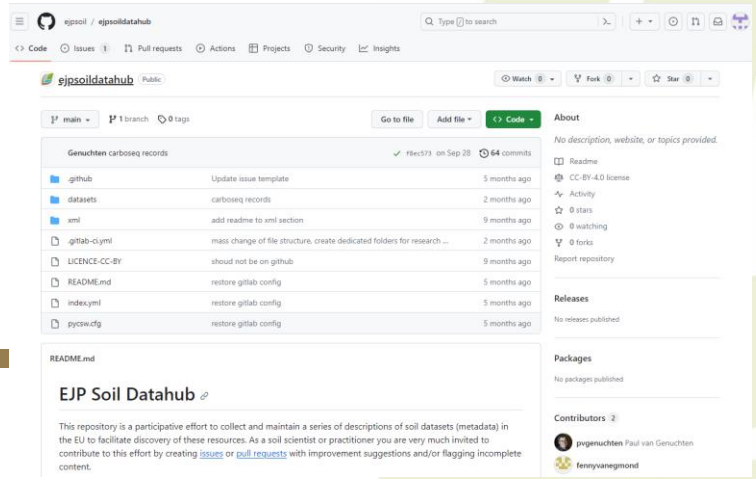
Visit the csoil data catalogue via one of the following two points of access:

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

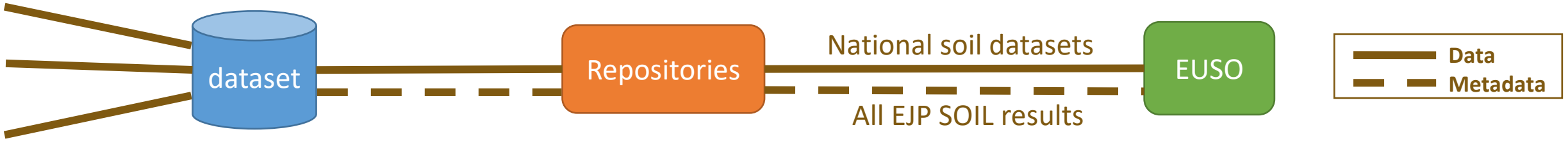
An aspect of the catalogue system is a minimal metadata template in Excel, developed to provide a minimalistic approach to bulk loading records into the catalogue. Alternative available bulk loading initiatives are importing from CSW and DOI (harvesting).

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



# 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?

YES

Action: Publish deliverables

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

NO

Action: Not to publish

Scientific publication/ Manuscripts

Dataset involved

YES

Datasets

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?

YES

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

NO

Action: Not to publish

## Action: Publish deliverables

Scientific publication/ Manuscripts

Dataset involved

NO

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

YES

Reports

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

Datasets

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/

**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.

# 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.?