Growing ideas through networks

# CA-18237 EUdaphobase

European Soil-Biology Data Warehouse for Soil Protection

edapho Edaphobase Data Policy - Overview









Balancing open access (FAIR) & intellectual property rights (IPRs)

### Policy regarding data

- "Regulates":
  - $\rightarrow$  "data provision" *to* the database
  - $\rightarrow$  "data usage" from the database
- Determined in/with European consensus/majority<sup>1</sup>



<sup>1</sup> based on feedback from the EU COST Action "EUdaphobase" (CA18237) (questionnaires, group discussions, input to data-policy drafts)





Balancing open access (FAIR) & intellectual property rights (IPRs)

### **Ethics of Data sharing**

<u>Central concept = "Consent"</u>

e.g., Skovgaard et al. 2019 Boté & Tèrmins 2019

Ideal: Individual, explicit, informed consent

→ difficult to automate; not "open access"

### Edaphobase: General, *implicit*, implied consent

- $\rightarrow$  dynamic (i.e. can be changed)
- $\rightarrow$  for restricted data, individual explicit consent possible



### from data-provider perspective → intellectual property rights (IPRs)

#### Edaphobase differentiates between:

- "Data owners"
- "Data providers"

#### Data owners:

- Person (institution) that has collected and compiled (= generated) the original data
- Has ownership (copyright) rights to the data and metadata
- Can be author of a publication, PI of a project, person identifying collected specimens

#### Data provider<sup>1</sup>:

- Person uploading data to Edaphobase
- The contact person for potential questions from Edaphobase
- Not necessarily, but can be the same as the data owner

<sup>1</sup> In the following, where "data provider" is mentioned, applies to both the data provider and the data owner(s)



from data-provider perspective -> intellectual property rights (IPRs)

**Edaphobase:** publicly available data warehouse data = *generally* open access

But: 3 Options of public data access (chosen by data provider)

### (1) Default = Open Access:

data providers: agree to a data-sharing agreement

 $\rightarrow$  acknowledge the data policy

 $\rightarrow$  agree to public re-use (incl. data download)

= "broad, implicit consent"

#### ≠ "open data" !!

Due to: a) providers retain control (i.e., retract / change data, access options) b) *further restriction options* 



### from data-provider perspective -> intellectual property rights (IPRs)

### (2) Embargo

public data access *temporarily* restricted (i.e., to allow publication by provider) Standard: **3 years**; can be withdrawn or extended

### (3) Restricted access ("anonymization")

public access of partial ("sensitive") data *permanently* restricted

- Geo-coordinates = non exact ;
- data allowing identification of sites or sampling design not publicly available:
  - Site, Plot names, abbreviations
  - Habitat description (text fields)
  - Sample numbers, volumes etc.
  - Taxon quantities (counts, densities, etc.)
  - Associated remarks or original quotations

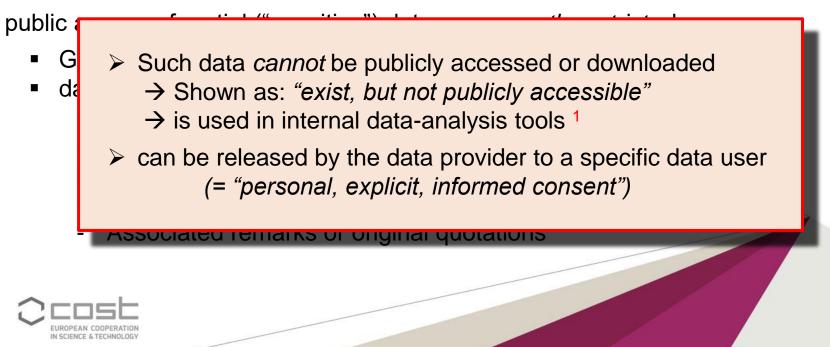


#### from data-provider perspective -> intellectual property rights (IPRs)

### (2) Embargo

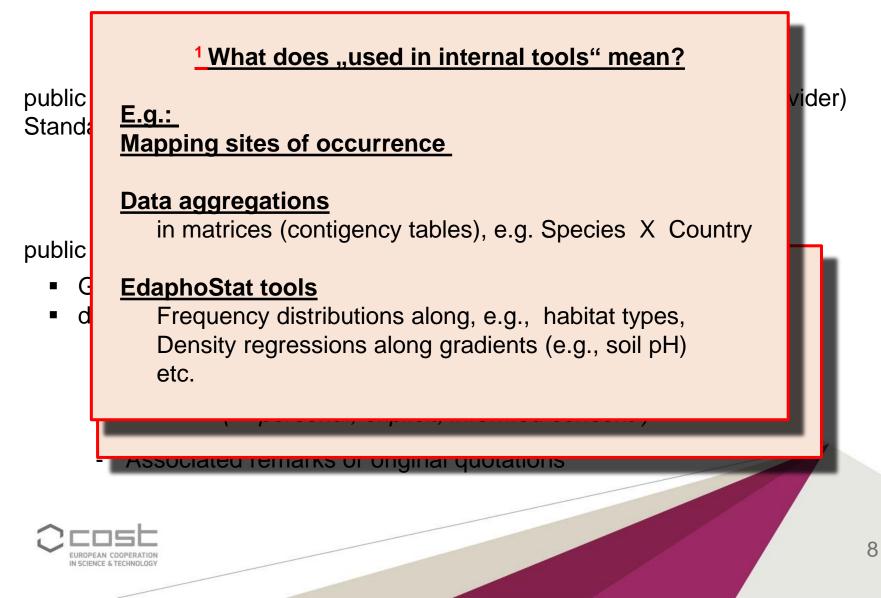
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#### (3) Restricted access ("anonymization")



Data Uploads

#### from data-provider perspective -> intellectual property rights (IPRs)



from data-provider perspective → intellectual property rights (IPRs)

### **Further option settings:**

- ≻ Share data with linked databases (e.g., GBIF)
   → yes/no answers
- Request a DOI for the data set (registered with DataCite)

   → permanent! Additional metadata required
   (DOIs only given to "data owners")
- Metadata to "understand" the data
  - $\rightarrow$  "Scope" (which?)
  - $\rightarrow$  Methods, environmental metadata, etc.



### from data-user perspective → "Open Access"

data = generally open access, downloadable only by <u>registered</u> users exception: embargoed or restricted data (unless individual permission)

#### First step: terms of use:

- Credit the data providers
- If granted access to restricted data sets, not allowed to further disseminate
- Not allowed to use data for commercial use or profit without obtaining written permission from the data providers

This must be confirmed in Edaphobase before data can be downloaded!! (Downloads are NOT logged!)

Note:

→ <u>Nothing</u> can be enforced!

Provides legal background for regress claims by data providers!



#### from data-user perspective → "Open Access"

### Citing data providers

#### Co-Authorship

- i.e., for "substantial" data (i.e. ca. >5%) or unique or novel data sets
- Contact information NOT provided publically, must be requested

### Citation

- Using, e.g., DOI, literature citation (if data derived from publication), citation suggestion for data sets

### Acknowledgements

- All other cases





### from data-user perspective → "Open Access"

### Data downloads in the form of a "package"

Including:

- Terms of Use (= the relevant sections of the data policy)
- Query Metadata (for reproduction, methods sections, etc.) Date of data access
   Which filters/grouping variables were used
   How many records, taxa, locations, sources were found
   List of most frequent sources
- The data itself

 $\rightarrow$  in flat tables: each data record begins with the source!



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### first columns (of a flat download table) will concern the source

(e.g., publication, DOI, project, collection, name of author / PI / data provider)

 $\rightarrow$  this to be used in citing data providers



SENCKENBERG world of biodiversity

### All aspects of how data are handled and the use of the data warehouse

### The data policy further explains and regulates:

- Rights & responsibilities of data providers and of Edaphobase itself
- Privacy statement (how personal data are handled)
- Data sharing with networked databases
- Terms of use of the browser-based Data-Query Portal
- ≻ Etc.
- $\rightarrow$  These are not shown here; please see the data policy itself

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