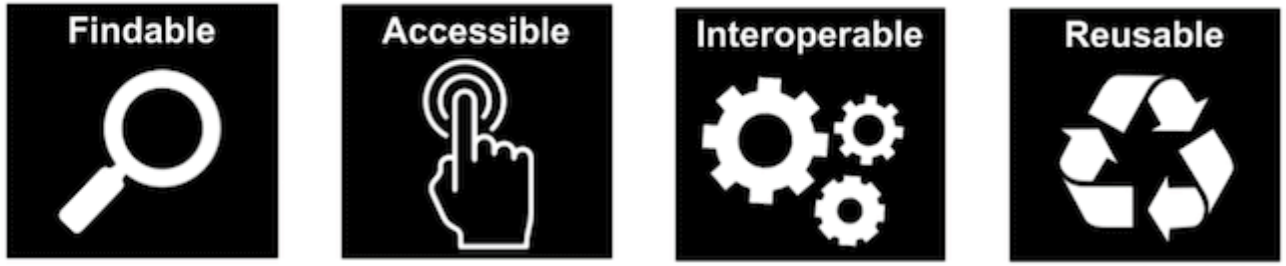
F A I R



D Á T A

Silvia Sofianos

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EURÓPSKA ÚNIA
Európske štrukturálne a investičné fondy
OP Integrovaná infraštruktúra 2014 – 2020

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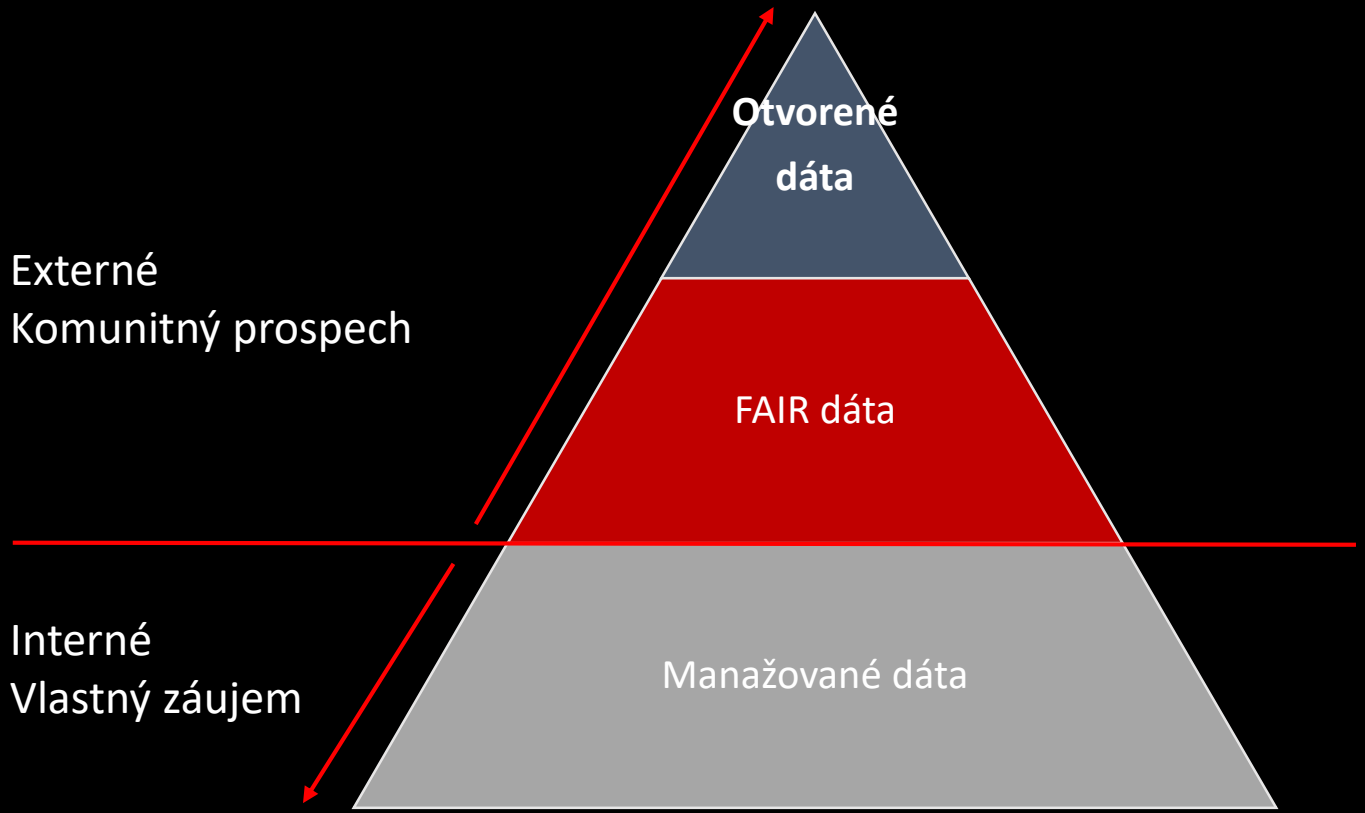
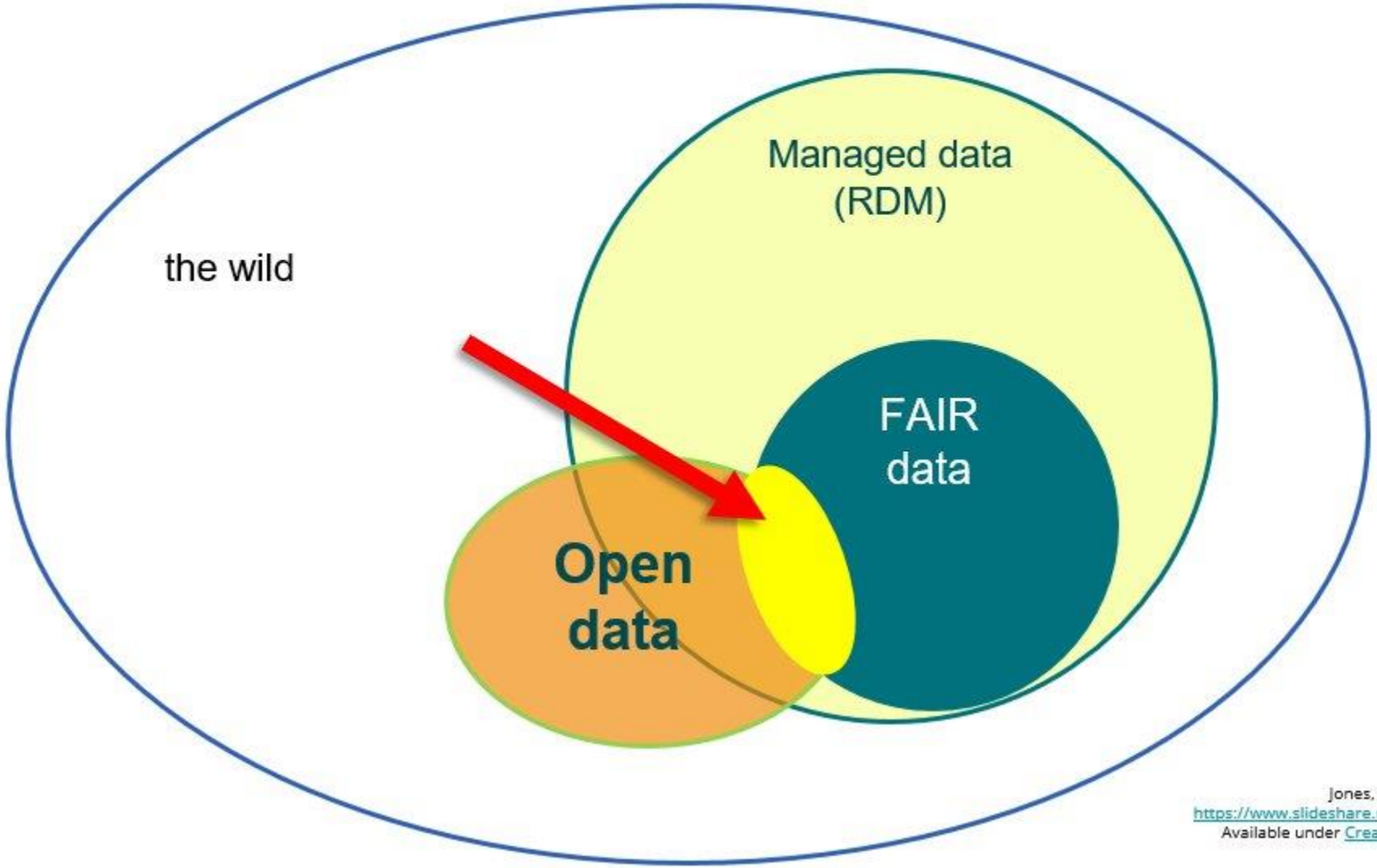
NISPEZ IV
Investícia do Vašej budúcnosti

OBSAH

- Aký je rozdiel medzi otvorenými a FAIR dátami?
- Čo sú FAIR dáta?
- FAIR dáta
  - Findable (vyhľadateľné)
  - Accessible (prístupné)
  - Interoperable (interoperabilné)
  - Reusable (opätovne použiteľné)
- Nástroje
- CARE dáta


Externé
Komunitný prospech
Otvorené
dáta
FAIR dáta
Interné
Vlastný záujem
Manažované dáta

RDM & FAIR & Open Data



FAIR dáta – základné otázky

- Kde dáta nájdeme?
- Ako sa k dátam dostaneme?
- Ako dáta prepojíme?
- Ako ich opakovane použijeme?


Findable
Persistent Identifiers (PIDs)
Rich metadata
Indexed data repositories
PIDs in metadata
Accessible
Standard communications protocol
Open, free protocol
Authentication, where necessary
Metadata is always available
Interoperable
Vocabularies
Vocabularies are FAIR
Linked metadata
Reusable
Metadata have multiple attributes
Usage license
Provenance
Community standards

Findable

Accessible
Interoperable
Reusable

- Vyhľadateľné dáta
  - F1. (Meta)dáta majú perzistentný identifikátor

ORCID
Connecting research and researchers

Silvia Sofianos | English

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ORCID ID	First Name	Last Name	Other Names	Affiliations
0000-0001-6195-7920	CONSTANTINOS	SOFIANOS		Colleges of Medicine of South Africa, LIFE BEDFORD GARDENS HOSPITAL, University of the Witwatersrand, Univerzita Komenského v Bratislave
0000-0002-9915-9665	Dimitrios	Sofianos		AHEPA University General Hospital, Faculty of Medicine, School of Health Sciences, University of Thessaly, Interbalkan Medical Center, Universitair Ziekenhuis Brussel, Vrije Universiteit Brussel, Ziekenhuis Netwerk Antwerpen (ZNA Middelheim)
0000-0002-3438-508X	Chrysis	Sofianos		Colleges of Medicine of South Africa, Royal College of Surgeons of England, University of Edinburgh, University of the Witwatersrand
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0000-0002-7375-970X	Zelia	Sofianos		University of the Witwatersrand Faculty of Health Sciences
0000-0001-6325-513X	Sarantis	Sofianos		National and Kapodistrian University of Athens
0000-0002-5476-5223	Silvia	Sofianos		Slovak Centre of Scientific and Technical Information

https://orcid.org/
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Printable version

Name
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Collapse all

Employment (1) Sort

Slovak Centre of Scientific and Technical Information: Bratislava, SK

2016 to present (Open Science Support Department)
Employment

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January 24, 2020

Dataset Open Access

Namelists required to run sea ice and physics configuration of MITgcm for the West Antarctic Peninsula

Schultz,Cristina

This dataset contains the namelists that describe the initial conditions, forcing files and specific package configurations used to run a sea ice and ocean physics configuration of the MITgcm (general circulation model) for the West Antarctic Peninsula (WAP).

Files (2.2 MB)

Name	Size	
data md5:a1c93ee96f3eb18513337ab5d457e47d	6.6 kB	Download
data.cal md5:6c3ab678050fcefb4d115ef6602adda2	176 Bytes	Download
data.diagnostics md5:a7e161607565c6340ef5e767eea1bc17	5.7 kB	Download

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January 24, 2020

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Findable

Accessible
Interoperable
Reusable

- Vyhľadateľné dáta
  - F1. (Meta)dáta majú perzistentný identifikátor
  - F2. Sú bohato opísané metadátami

Taxonomy - Homo sapiens (species)

Download ▾ View proteins ▾ View proteomes ▾

Mnemonic name	HUMAN
Taxon ID	9606
Scientific name	Homo sapiens
Parent	Homo
Children	Neanderthal Denisova hominin Browse all direct children (2) Browse all descendants
Common name	Human
Other names	Homo sapiens Linnaeus, 1758 human Home sapiens Homo sampiens Homo sapeins 10 more names
Rank	species
Lineage	cellular organisms > Eukaryota (eucaryotes) > Opisthokonta > Metazoa (metazoans) > Eumetazoa > Bilateria > Deuterostomia > Chordata (chordates) > Craniata > Vertebrata (vertebrates) > Gnathostomata (jawed vertebrates) > Teleostomi > Euteleostomi (bony vertebrates) > Sarcopterygii > Dipnotetrapodomorpha > Tetrapoda (tetrapods) > Amniota (amniotes) > Mammalia (mammals) > Theria > Eutheria (placentals) > Boreoeutheria > Euarchontoglires > Primates > Haplorrhini > Simiiformes > Catarrhini > Hominoidea (apes) > Hominidae (great apes) > Homininae > Homo
Links	www.ncbi.nlm.nih.gov digimorph.org en.wikipedia.org en.wikipedia.org en.wikipedia.org 15 more links

Findable

Accessible
Interoperable
Reusable

- Vyhľadateľné dáta
  - F1. (Meta)dáta majú perzistentný identifikátor
  - F2. Sú bohato opísané metadátami
  - F3. (Meta)dáta sú registrované alebo indexované vo vyhľadávateľnom zdroji
  - F4. Metadáta zahŕňajú identifikátor dát

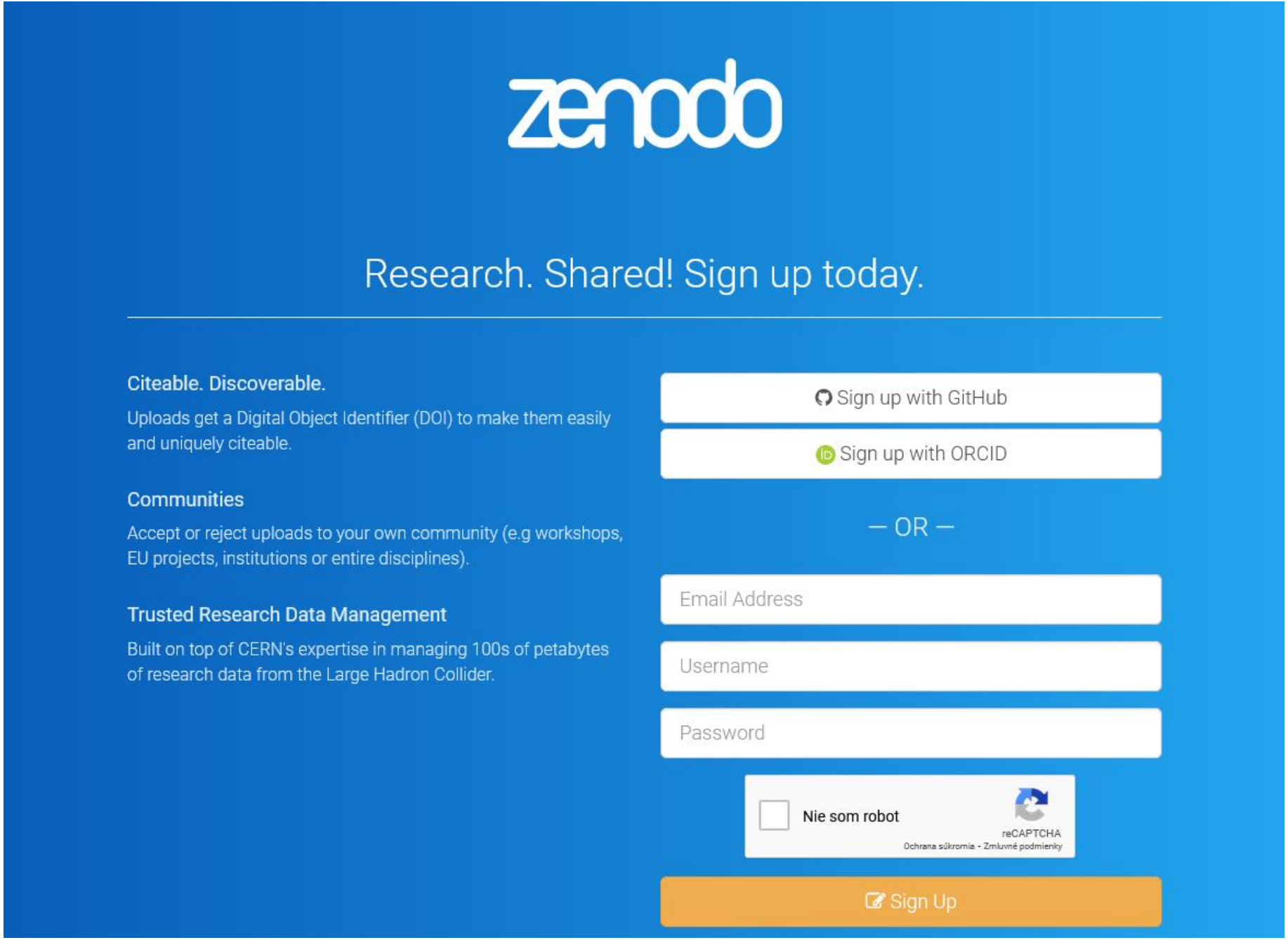
Findable

Accessible

Interoperable

Reusable

- Prístupné
  - A.1.(Meta)dáta sa dajú získať pomocou ich identifikátora pomocou štandardizovaného komunikačného protokolu
    - A1.1. Protokol je otvorený, bezplatný a univerzálne implementovateľný
    - A1.2. Protokol umožňuje v prípade potreby procedúru autentifikácie a autorizácie
  - A.2. Metadáta by mali byť dostupné aj vtedy, keď dáta už nie sú k dispozícii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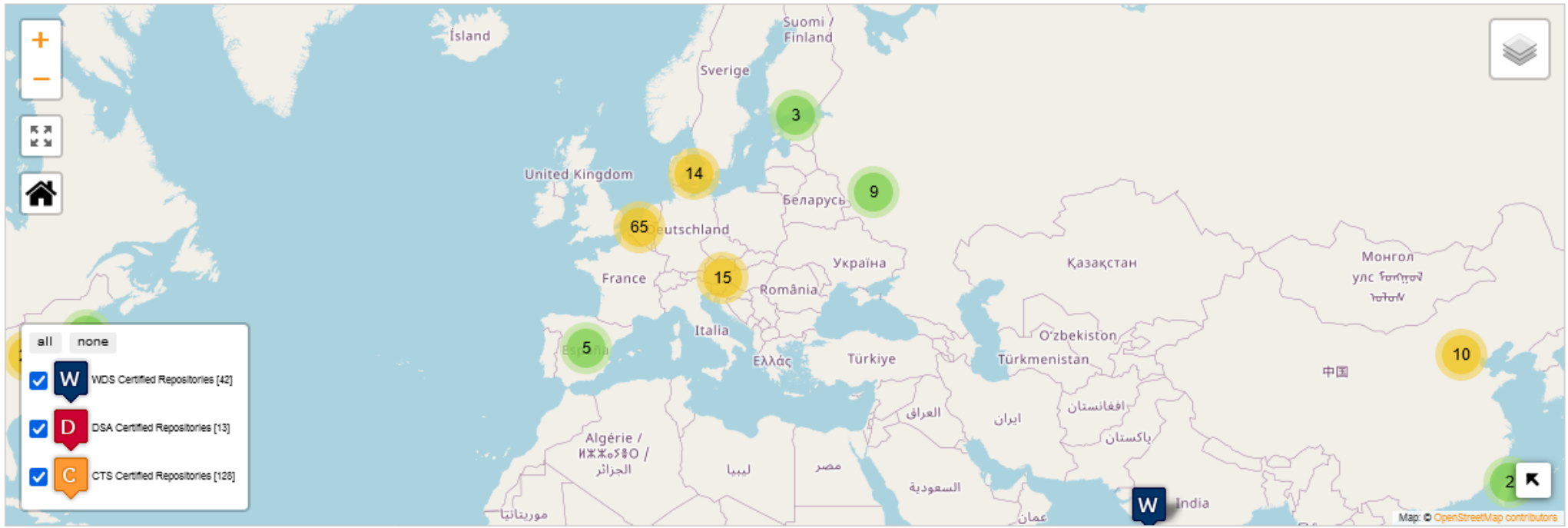
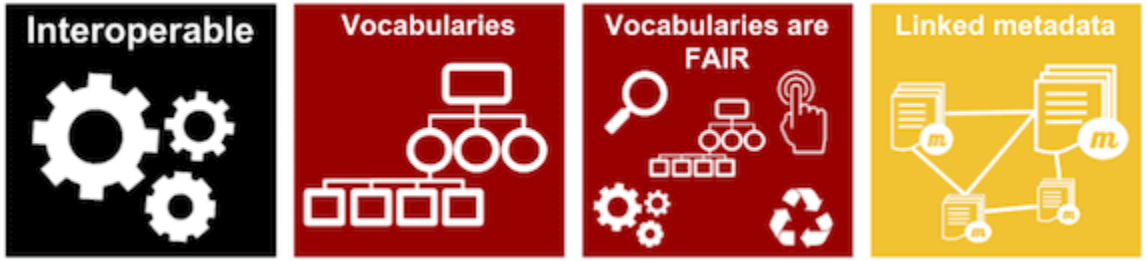
Core Certified Repositories

Applications are made public only once certification of a data repository has been approved by the CoreTrustSeal Board. Certification is against the version of the Core Trustworthy Data Repositories Requirements named in the link to the public application (e.g., 2017–2019). The CoreTrustSeal for Data Repositories is valid for three years from the certification date listed within the public application.



Findable
Accessible
Interoperable
Reusable



- Interoperabilné

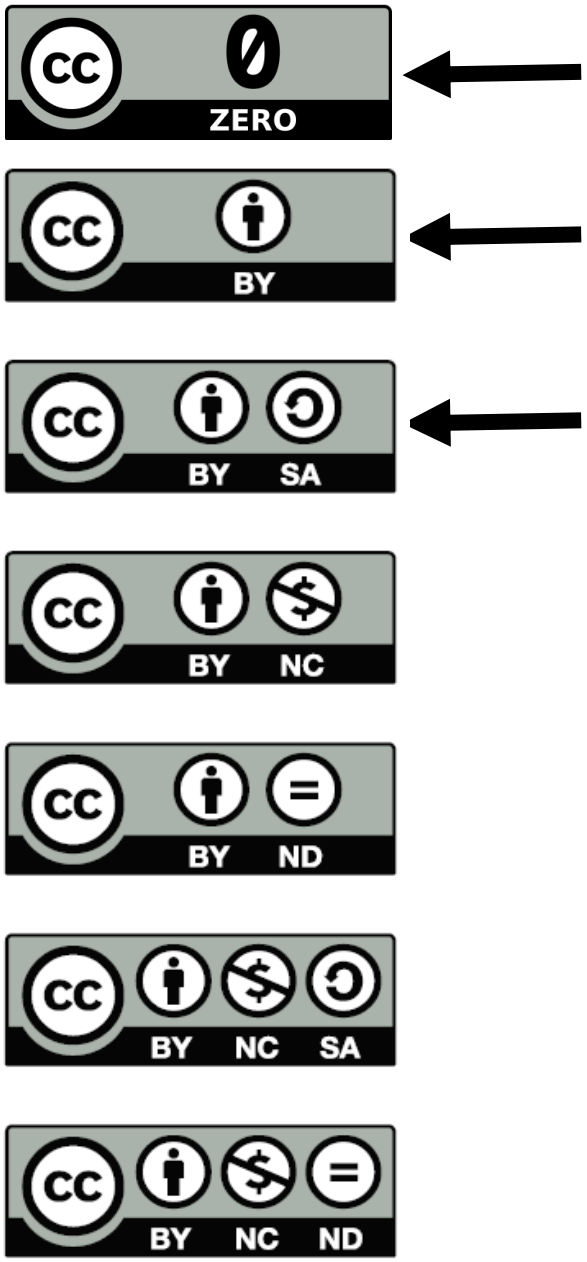
  I1. (Meta)dáta používajú formálny, prístupný, zdieľaný a rozšírený jazyk na prezentáciu znalostí.

  I2. Meta(dáta) používajú slovníky, ktoré sa riadia princípmi FAIR

  I3. Meta(dáta) zahŕňajú kvalifikované odkazy na iné meta(dáta)

Findable
Accessible
Interoperable
Reusable

- Opätovne použiteľné
  - R1. (Meta)dáta sú bohato opísané s množstvom presných a relevantných atribútov
  - R2. Meta(dáta) majú uvedenú licenciu
  - R3. (Meta)dáta majú jasnú identifikáciu pôvodu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BY NC SA
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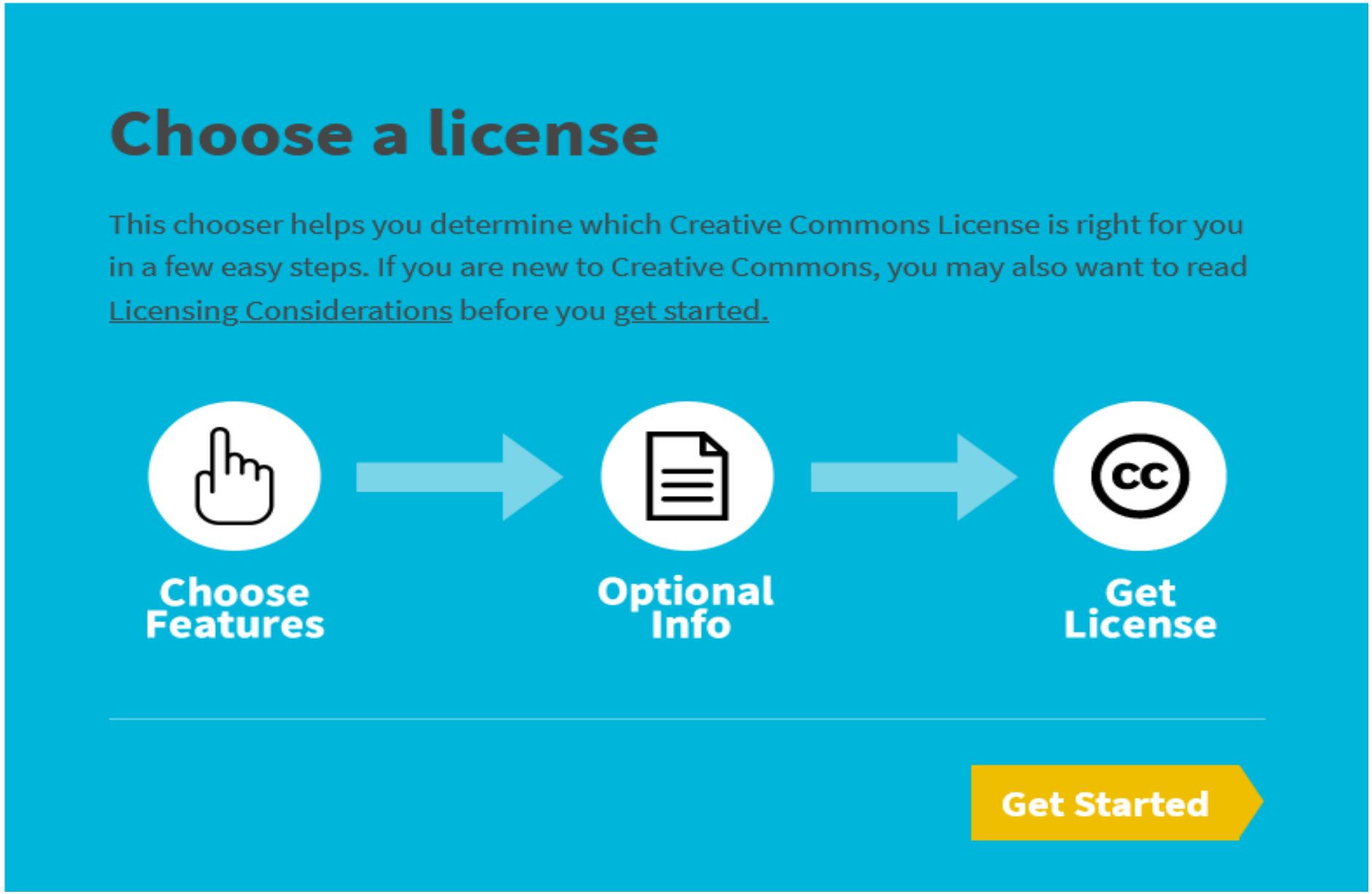

https://creativecommons.org/

Findable
Accessible
Interoperable
Reusable

- Opätovne použiteľné
  - R1. (Meta)dáta sú bohato opísané s množstvom presných a relevantných atribútov
  - R2. Meta(dáta) majú uvedenú licenciu
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  - R4. (Meta)dáta zodpovedajú štandardom danej komunity

MIAME and MINSEQE guidelines

The MIAME (Minimum Information About a Microarray Experiment) and MINSEQE (Minimum Information About a Next-generation Sequencing Experiment) guidelines outline the minimum information that should be included when describing a microarray or sequencing study. Many journals and funding agencies require microarray data to comply with MIAME and MINSEQE standards.

MIAME compliance is not related to the submission format or route, but rather to the content provided

GEO deposit procedures enable and encourage submitters to supply MIAME and MINSEQE compliant data. All GEO submission procedures are designed to closely follow the MIAME and MINSEQE checklists; if you provide all requested information, your submission will be compliant.

The six most critical elements contributing towards MIAME are:

- Raw data for each assay (e.g., CEL or FASTQ files)
- Final processed (normalized) data for the set of assays in the study (e.g., the gene expression data count matrix used to draw the conclusions in the study)
- Essential sample annotation (e.g., tissue, sex and age) and the experimental factors and their values (e.g., compound and dose in a dose response study)
- Experimental design including sample data relationships (e.g., which raw data file relates to which sample, which assays are technical, which are biological replicates)
- Sufficient annotation of the array or sequence features examines (e.g., gene identifiers, genomic coordinates)
- Essential laboratory and data processing protocols (e.g., what normalization method has been used to obtain the final processed data)

More information and background regarding GEO and data standards are discussed in this Nature Biotechnology correspondence.


Findable
Persistent Identifiers (PIDs)
Rich metadata
Indexed data repositories
PIDs in metadata
Accessible
Standard communications protocol
Open, free protocol
Authentication, where necessary
Metadata is always available
Interoperable
Vocabularies
Vocabularies are FAIR
Linked metadata
Reusable
Metadata have multiple attributes
Usage license
Provenance
Community standards

VYHĽADATEĽNÉ **PRÍSTUPNÉ** **INTEROPERABILNÉ** **OPÄTOVNE POUŽITEĽNÉ**

NÁSTROJE

Data Archiving and Networked Services
DANS

FAIR Aware

Your first step towards your FAIR data(set)

Do you work with data? Are you looking to make it future-proof? The **FAIR Principles** can help you.

These principles stand for the Findability, Accessibility, Interoperability and Reusability of data(sets). Applying these principles to your data(set) will help others to find, cite and reuse your data more easily.

FAIR-Aware helps you assess your knowledge of the FAIR Principles, and better understand how making your data(set) FAIR can increase the potential value and impact of your data.

The tool is discipline-agnostic, making it relevant to any scientific field. You can use this tool at any point during your research before depositing your **data(set)** in a data repository. It is also good to keep in mind that many FAIR-related decisions can already be made in the research planning phase, so you may want to use FAIR-Aware early on to help you make those decisions. Also, if you are a trainer, you can use FAIR-Aware to assess the knowledge of FAIR of your course participants.

The self-assessment consists of 10 questions with additional guidance texts to help you become more aware of what you can do to make your data(set) as FAIR as possible. The assessment will take between 10-30 minutes, after which you will receive an overview of your awareness level and additional tips on how you can further improve your FAIR skills.

If you would like to use FAIR-Aware in your own training, you can find instructions on the trainer functionality here
You can contact the FAIR-Aware development team for any questions or comments via e-mail.

amnesia

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High accuracy Data Anonymization.

Perform research and share your results that satisfy GDPR guidelines by using data anonymization algorithms.

GET STARTED

PRINCÍPY CARE


Be
FAIR
Findable
Accessible
Interoperable
Reusable
and
CARE
Collective Benefit
Authority to Control
Responsibility
Ethics

Čo sú dáta o pôvodných obyvateľoch?

- Dáta alebo informácie v rozličných formátoch, ktoré ovplyvňujú pôvodných obyvateľov, národy alebo komunity
  - Dáta o pôde, vode, vzduchu, ekosystémoch, rastlinách..
  - Administratívne, právne, sociálne, zdravotné dáta
  - Dáta o kultúre, tradíciách, jazykoch, predkoch..

Collective Benefit

Authority to Control

Responsibility

Ethics

- Spoločný úžitok
  - C1 pre inkluzívny rozvoj a inovácie
  - C2 pre lepšiu správu o občiansku zaangažovanosť
  - C3 pre spravodlivé výsledky

Collective Benefit

Authority to Control

Responsibility

Ethics

- Možnosť kontroly zo strany pôvodných obyvateľov
  - A1 Uznanie práv a záujmov
  - A2 Dáta pre riadenie/vládnutie
  - A3 Riadenie dát

Collective Benefit
Authority to Control
Responsibility
Ethics

- Zodpovednosť
  - R1 Pozitívne vzťahy
  - R2 Vzdelávanie v oblasti dátovej gramotnosti
  - R3 Pôvodné jazyky a svetonázory

Collective Benefit
Authority to Control
Responsibility
Ethics

- Etika
  - E1 Pre minimalizáciu škôd a maximalizáciu úžitku
  - E2 Spravodlivosť
  - E3 Na budúce využitie

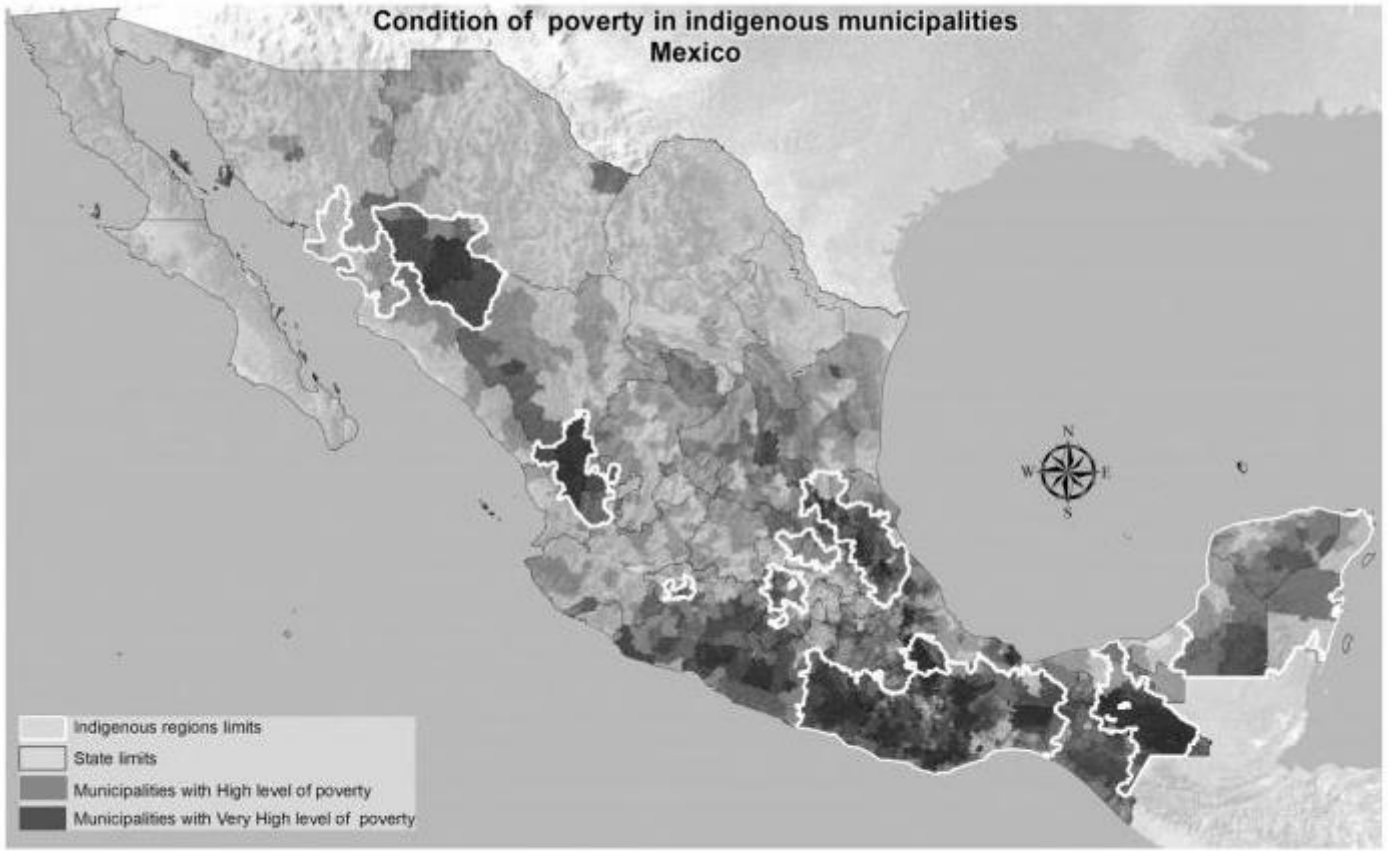


Figure 9.2 Map of Mexico Indigenous regions and marginality.

Zdroj obrázku: Walter M. et al (2020): Indigenous Data Sovereignty and Policy

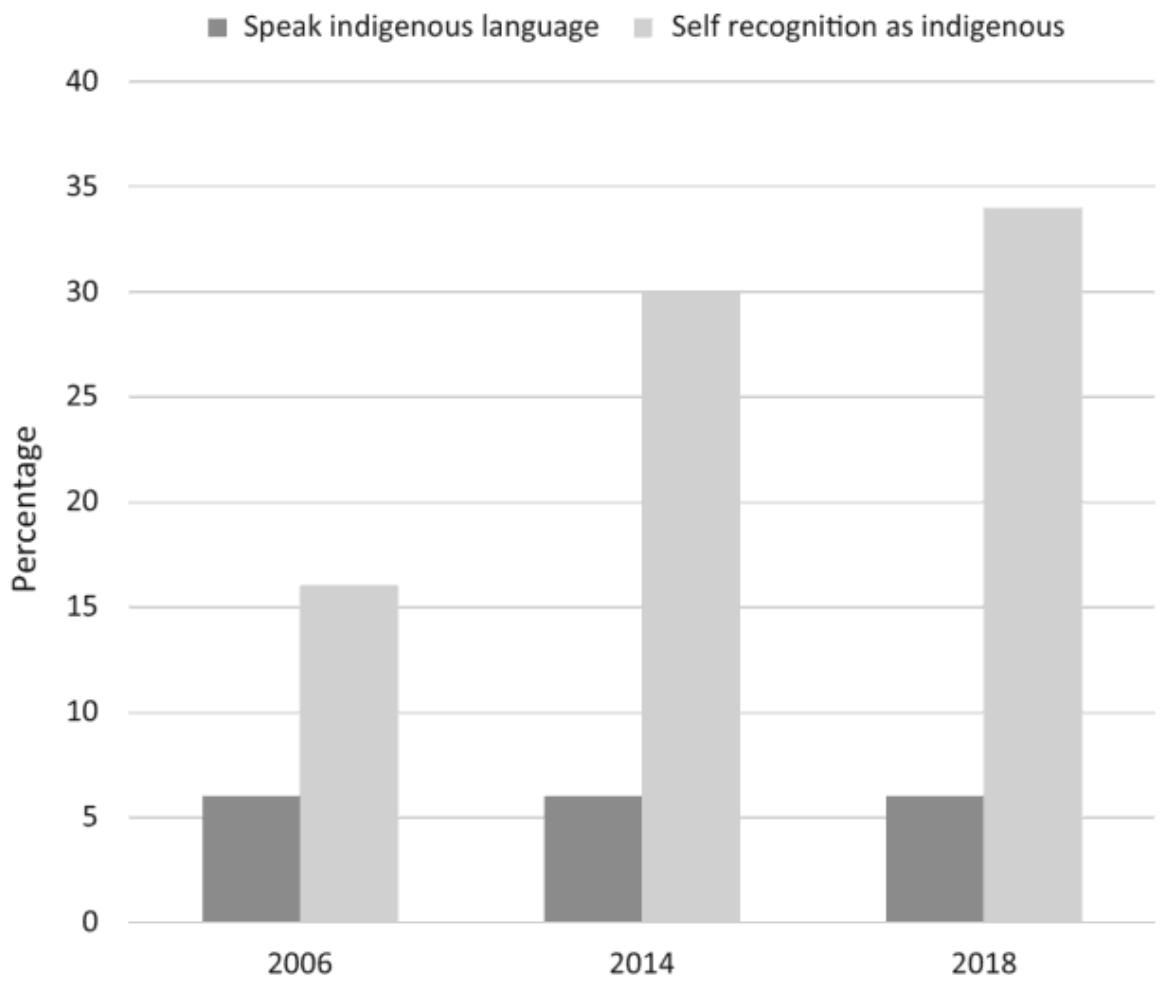
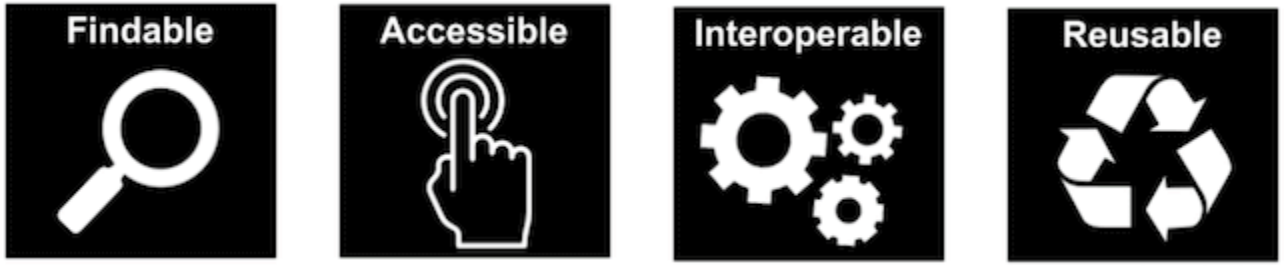


Figure 9.1 Ethnicity index in Mexico (ENADID 2006, 2014, 2018).

Zdroj obrázku: Walter M. et al (2020): Indigenous Data Sovereignty and Policy

ZDROJE

- ARDC (2020): FAIR data 101 training. https://ardc.edu.au/resource/fair-data-101-training-findable-1/
- Global Indigenous Data Alliance (2022): Indigenous Data Sovereignty and Governance. https://static1.squarespace.com/static/5d3799de845604000199cd24/t/637acfbec86a122d68b0f317/1668992965093/Final_Attribution_NonCommercial_NoDerivatives_4_International.pdf
- CESSDA (2019): Data Management Expert Guide. https://dmeg.cessda.eu/
- DANS (2022): FAIR Aware. https://fairaware.dans.knaw.nl/
- FAIR DATA AUSTRIA (2021): Let's make our data FAIR! https://forschungsdaten.at/en/fair-data-austria/materials/lets-make-our-data-fair/
- GO FAIR (2022): FAIR Principles. https://www.go-fair.org/fair-principles/
- Walter M. et al (2020): Indigenous Data Sovereignty and Policy. https://www.taylorfrancis.com/books/e/9780429273957



Ďakujem za pozornosť.

silvia.sofianos@cvtisr.sk