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Interoperability in a long tail of data scenario

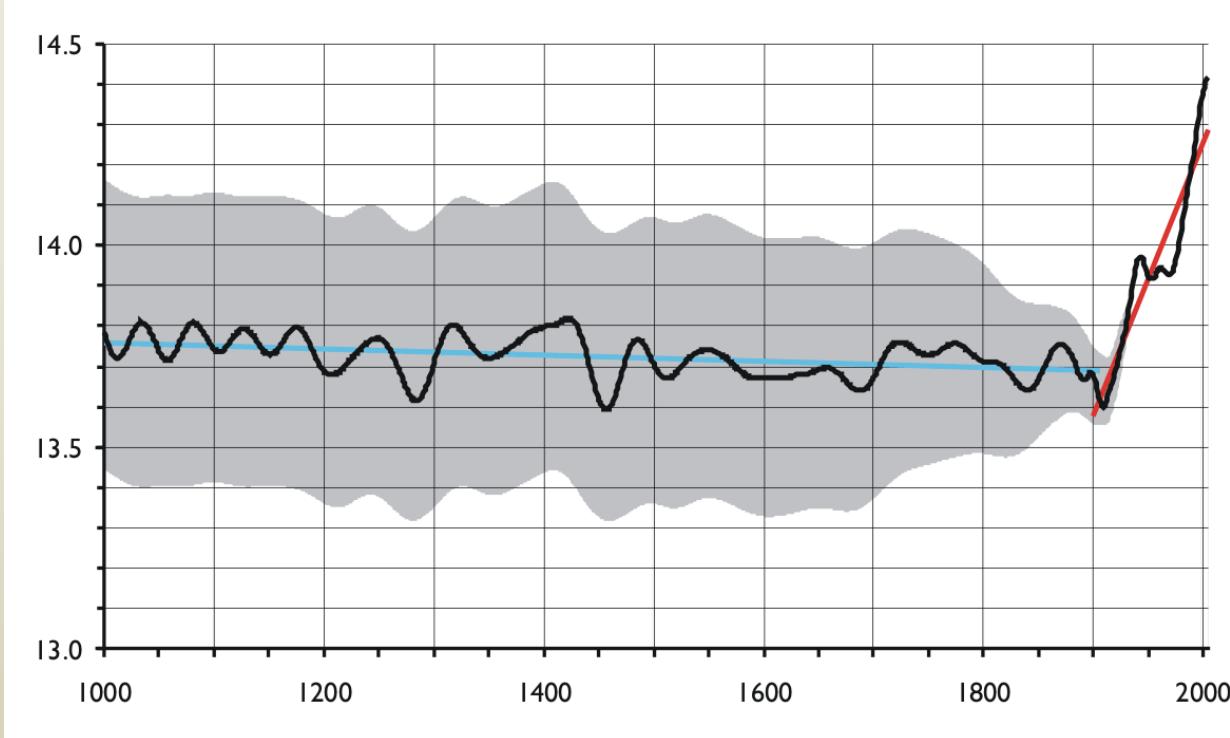
REDIA: Repository of Data in Agriculture

What is REDIA?

- REDIA is a research data repository specialized in agriculture and food
- It is the INIA's institutional repository



REDIA goals - Reuse



[Global temperature \(kyr\)](#). Hanno. Sources: Jones et Mann(2004), Jones et al. (2005)

REDIA goals - Preservation

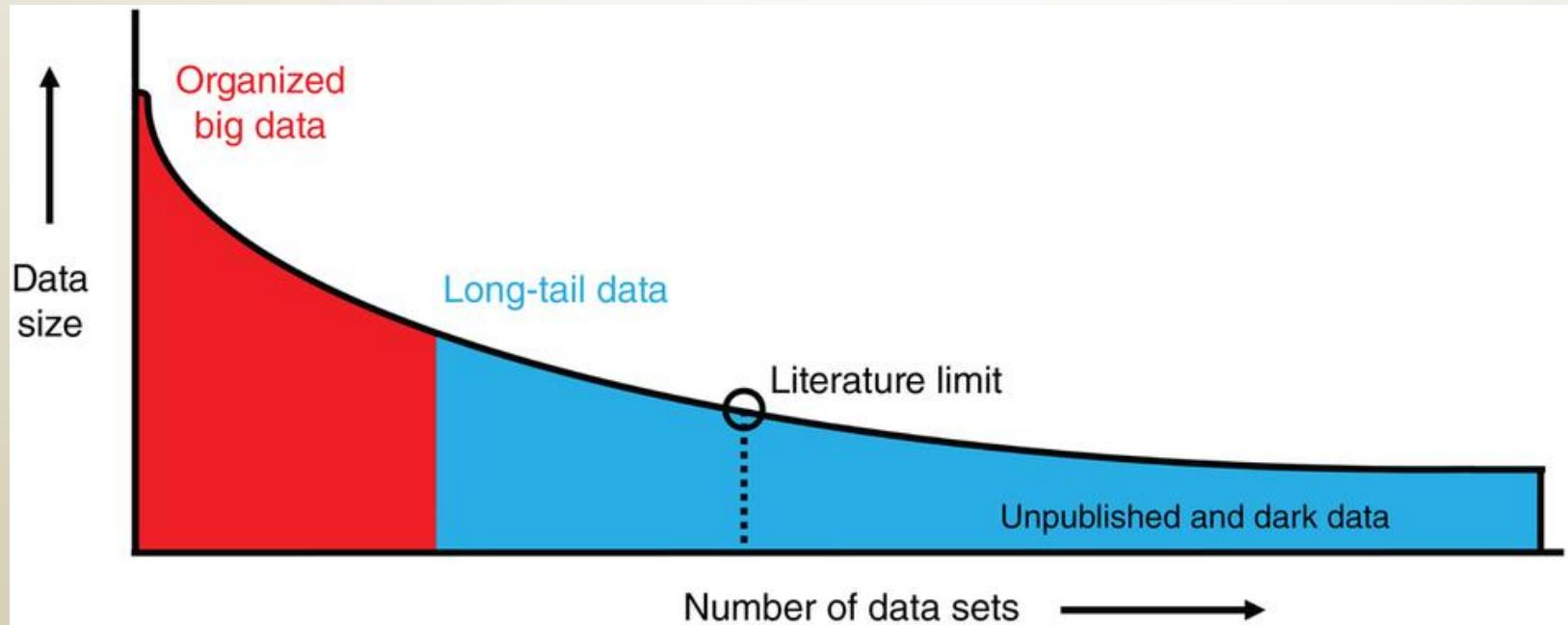


REDIA goals - Accessibility



[Engineering Plans Storage](#), 2001. Seattle Municipal Archive

The long tail of data



[Big data from small data: data-sharing in the 'long tail' of neuroscience.](#) Ferguson et al.

Interoperability in risk

- No way to set a fitting schema for all our datasets
- Maybe we don't even want to





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The bibliographical level

- Metadata at the bibliographical level improves **access** and **findability**

<http://aims.fao.org/lode-bd-recommendations-20>



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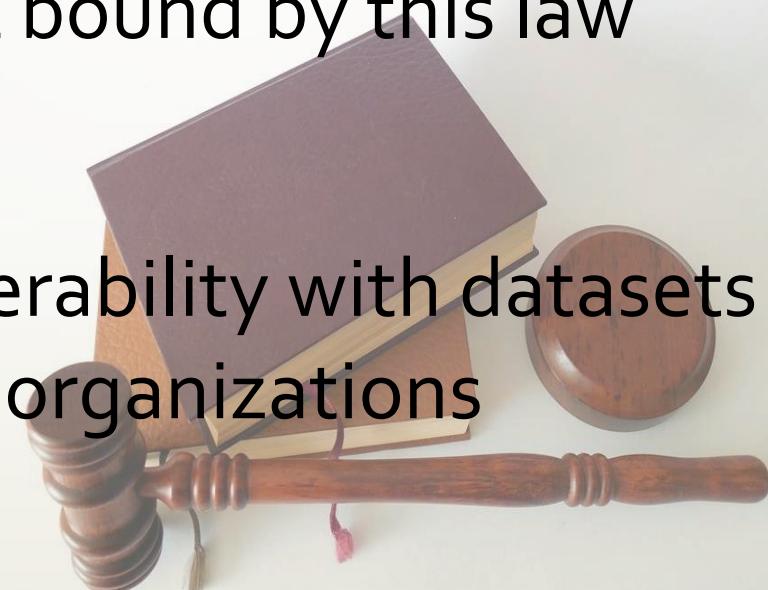
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Interoperability requirements

- Spanish government data reuse law
- European research data initiatives
- Agriculture and food data initiatives

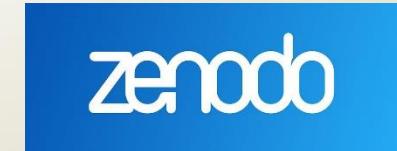
Spanish government data reuse law

- Research data is not bound by this law
- Extra point: interoperability with datasets published by bound organizations



Research data initiatives

- EUDAT
- OpenAire / Zenodo
- Datacite





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Agriculture and food data initiatives

- GODAN
- IGAD / RDA
- e-ROSA





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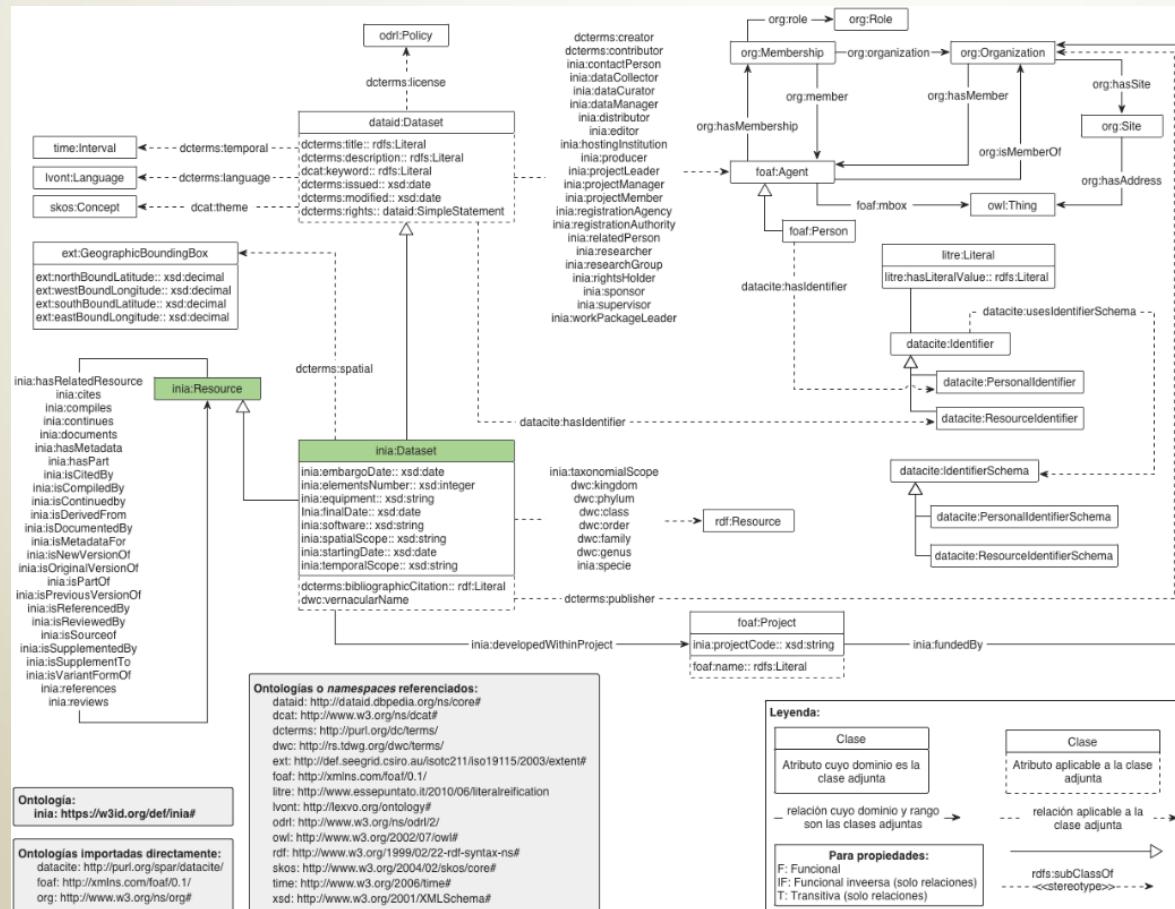
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Metadata schema

- Dublin Core
- Darwin Core
- Specific institutional vocabulary

Ontology





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Underlying magic

- CKAN
- Virtuoso





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What about full interoperability?

- Encourage best practices in dataset description
- Data management support and curation
- CSV on the Web



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The team

- INIA
 - IT team (coordinator)
 - Library
 - Researchers
 - Management
- OEG-UPM



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Status & timeline

- Release: ending 2017
- Develop institutional research data policy
- Contacts with other research organizations



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Research Data Policy

- Best practices for Research Data Management
- Set down a context to encourage data sharing and open publishing

Conclusion

- Interoperability can be obtained at the bibliographical level
- Full interoperability is domain specific

Danke!