ARIADNE

The European E-Infrastructure for FAIR Digital Archaeological

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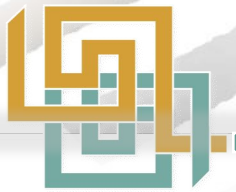
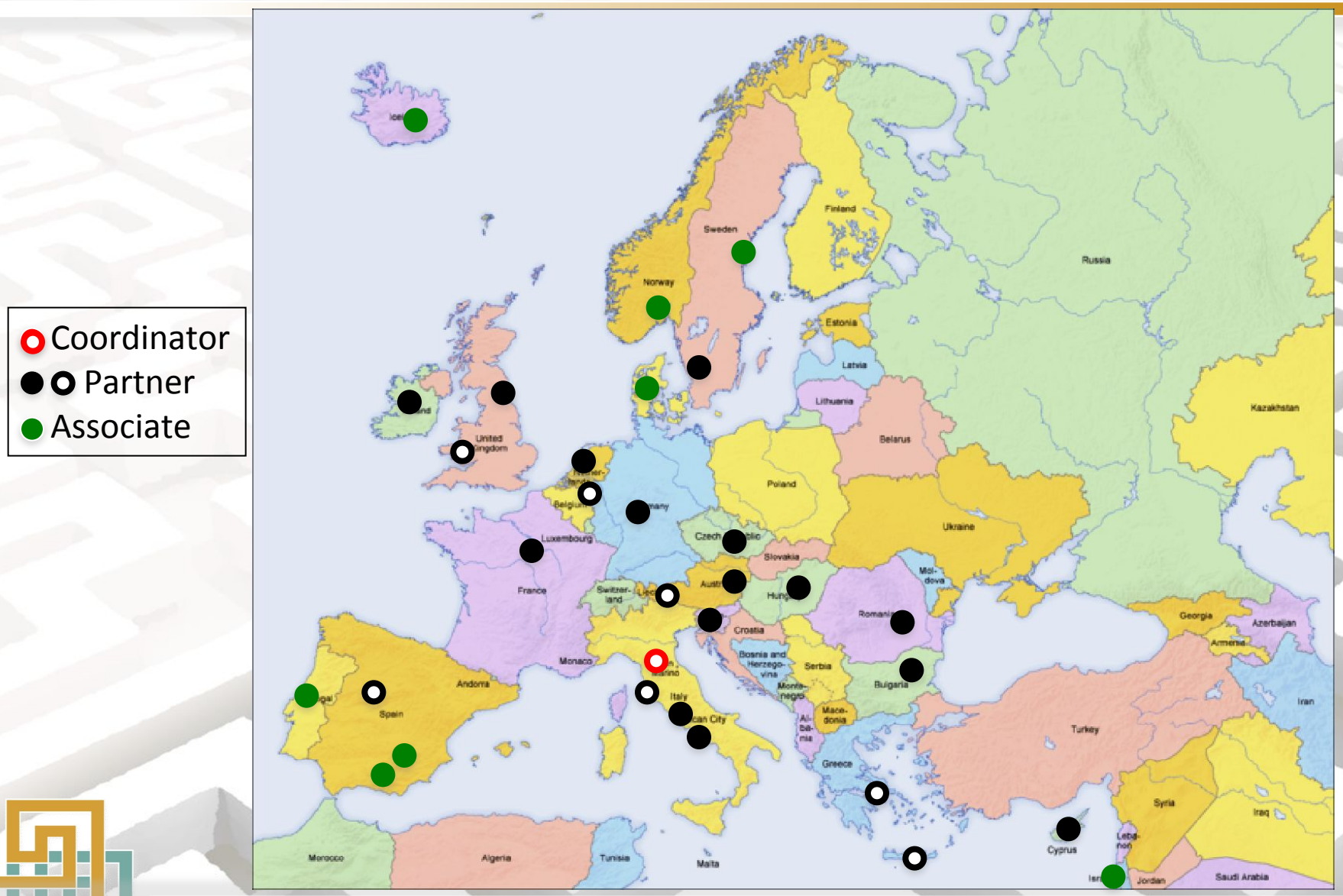
The ARIADNE project

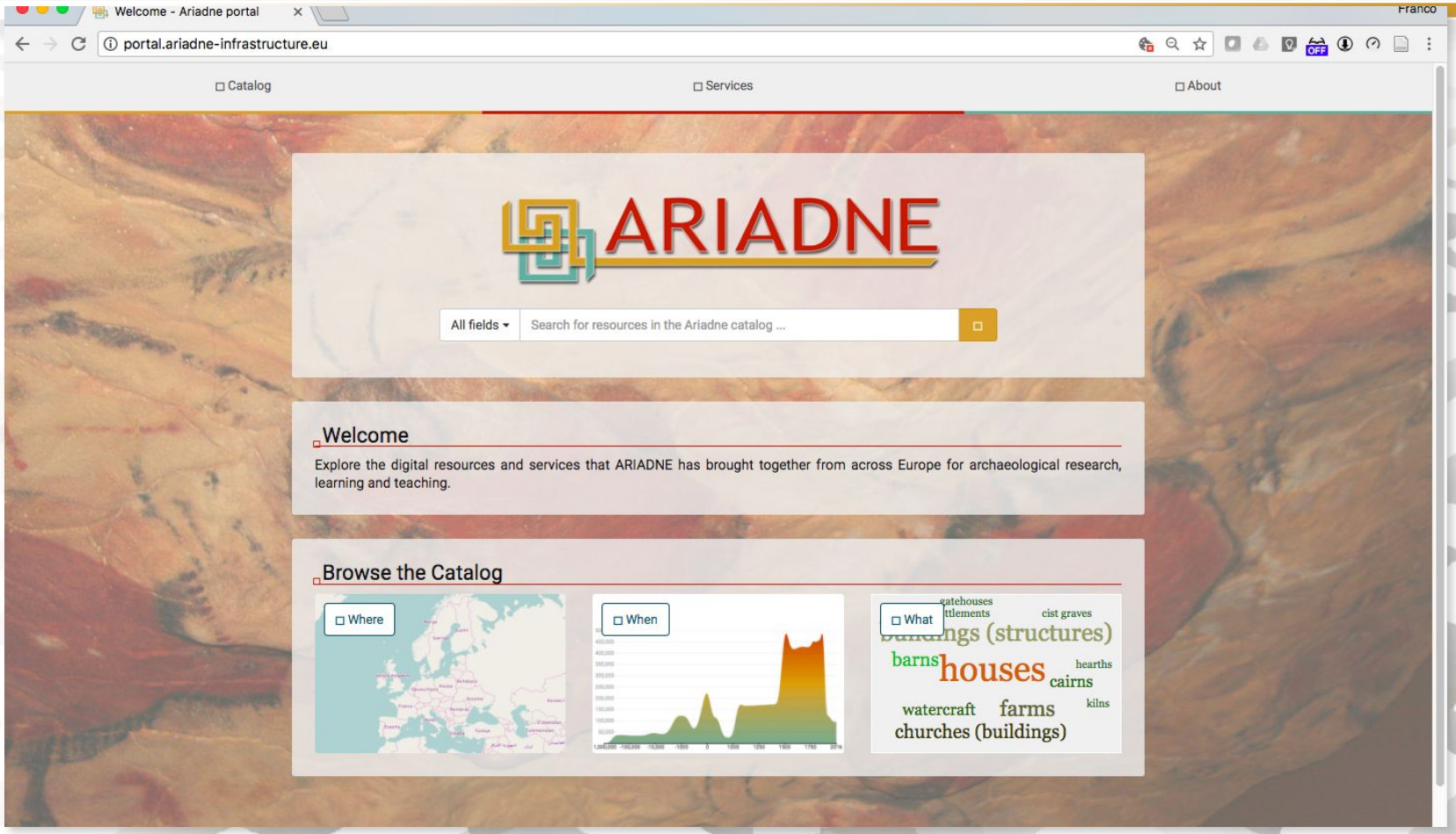
- ARIADNE: Research Infrastructure project aiming at the integration of archaeological datasets in Europe
- Four years' duration, from 1/2/2013 to 31/1/2017
- 23 partners from 17 countries
- Goals:
  - Overcome the fragmentation of archaeological datasets
  - Foster/support interoperability and standardization
  - Enable resource discovery with faceted searches based on time ("when"), place ("where") and subject ("what")
  - Make archaeological data discoverable, accessible, understandable, usable
  - Connect datasets in an overarching catalogue (the **Registry**) accessible via the ARIADNE Portal



The initial ARIADNE Partnership

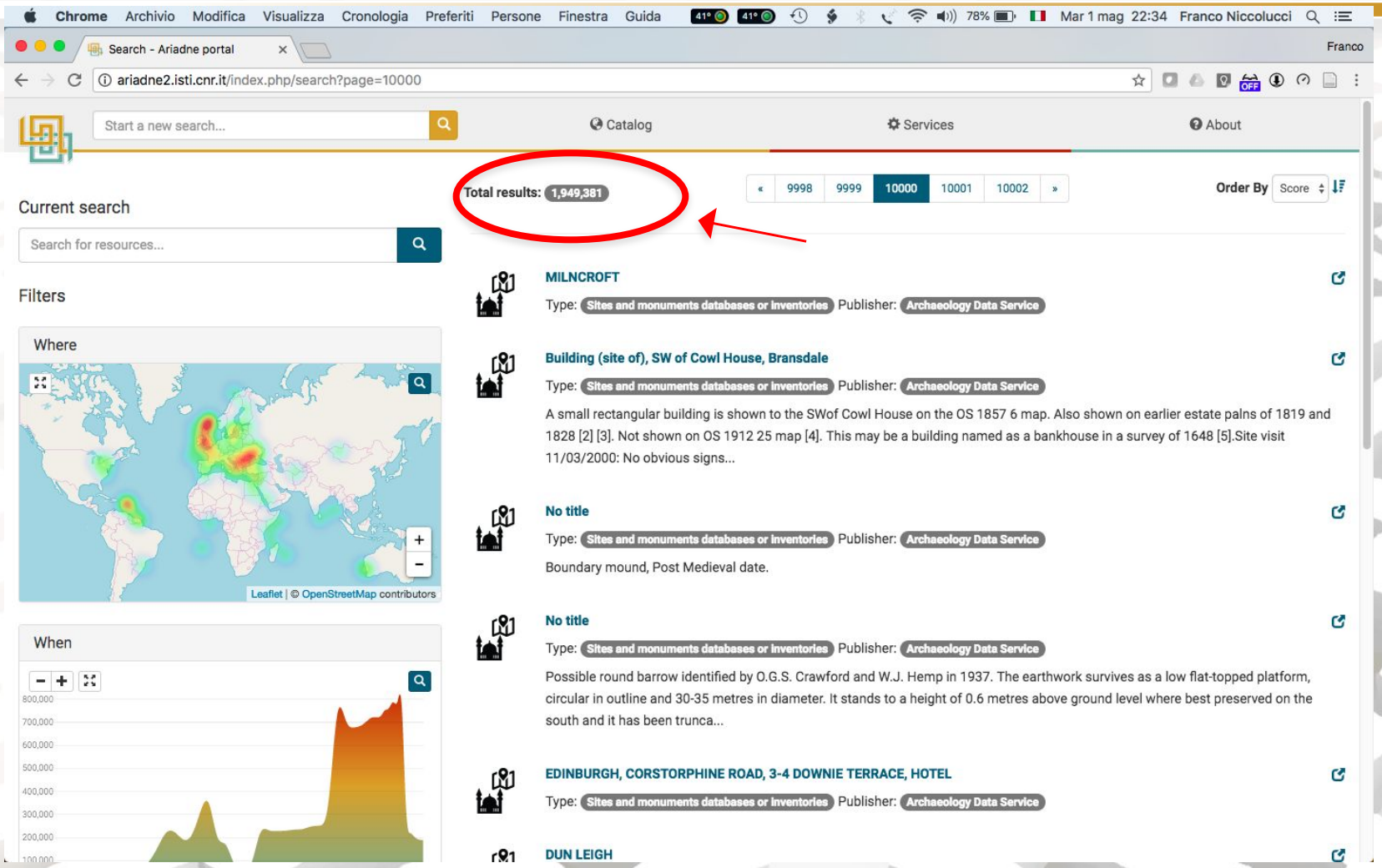


Accessing the registry via the ARIADNE Portal



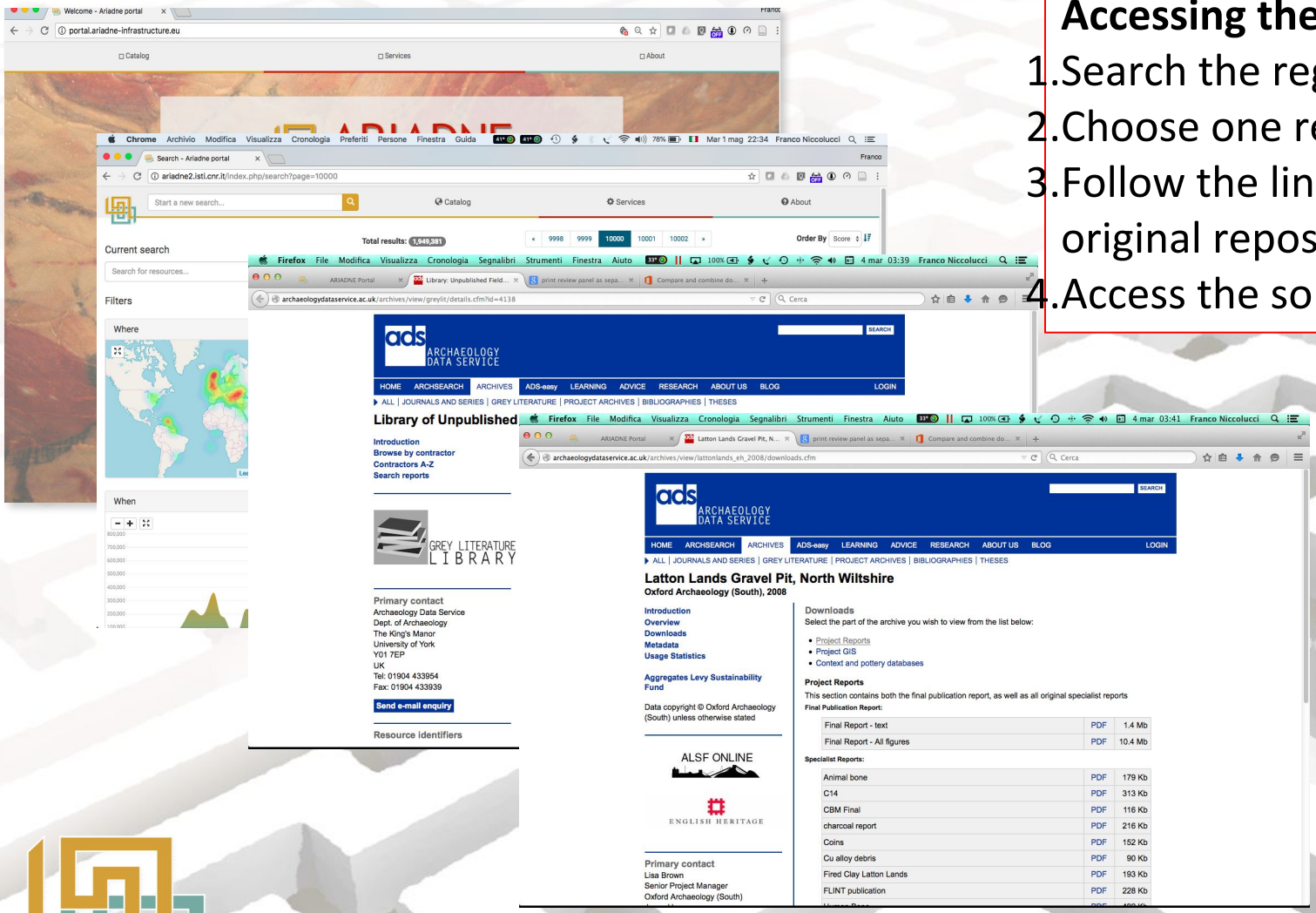
http://portal.ariadne-infrastructure.eu

The result list



A page of the result list with no search parameters, showing the total amount of datasets registered (little less than 2 million)

Accessing the source datasets

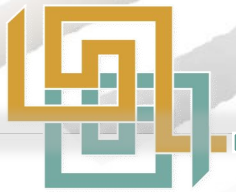


Accessing the source data

1. Search the registry
2. Choose one result
3. Follow the link to the original repository
4. Access the source data

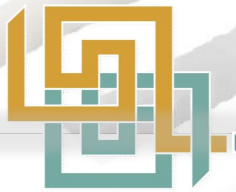
Above and beyond ARIADNE

- Proposal for an ARIADNE*plus* extension
- Goal: make archaeological data ***FAIR***
- Now with 41 partners to cover all of Europe
- Improved coverage of scientific datasets
- Ready for the European Open Science Cloud
- Implementing Virtual Research Environments
- Advanced services for users:
  - GIS integration across national archaeological maps
  - Natural Language Processing to enrich report metadata (already developed within EOSCpilot as a science demo)
  - Linked Open Data



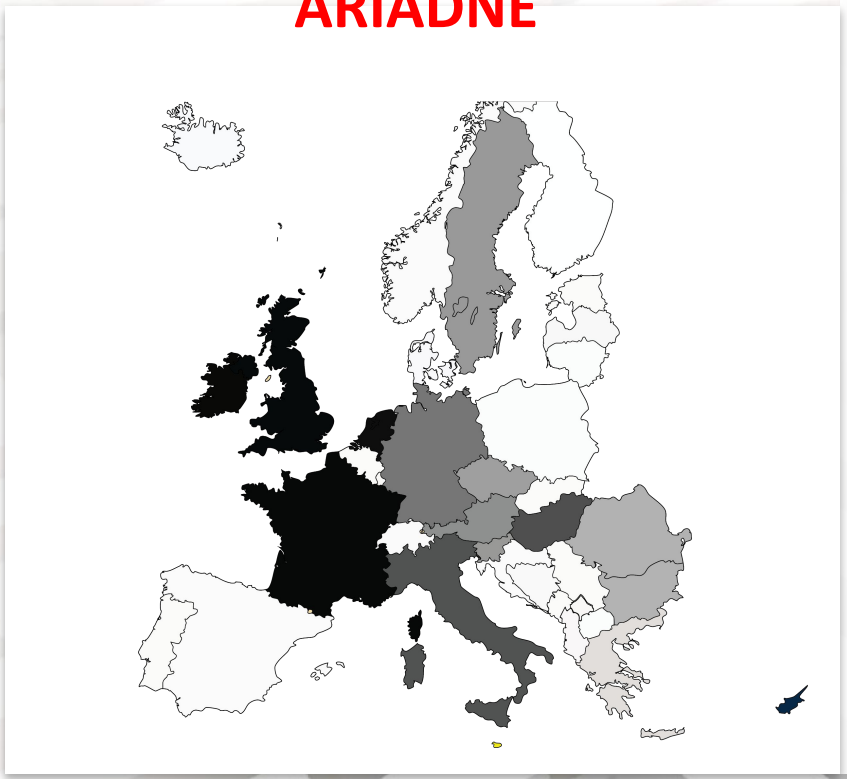
FAIRness of archaeological data

For archaeological data to be	*The integrating infrastructure must be*
Findable	**Inclusive**: all key data sources participate in the integrating effort and effective search tools are in place
Accessible	**Linked**: source data directly linked to the infrastructure catalogue in a distributed/integrated system
Interoperable	**Standardized**: the infrastructure provides metadata in a homogenous way **Operational**: the underlying technology provides cross-datasets processing functionalities
Re-usable	**Functional**: services tailored to archaeological research questions are available **Trustworthy**: data suitability to research questions, data quality and provenance information are guaranteed by rich metadata



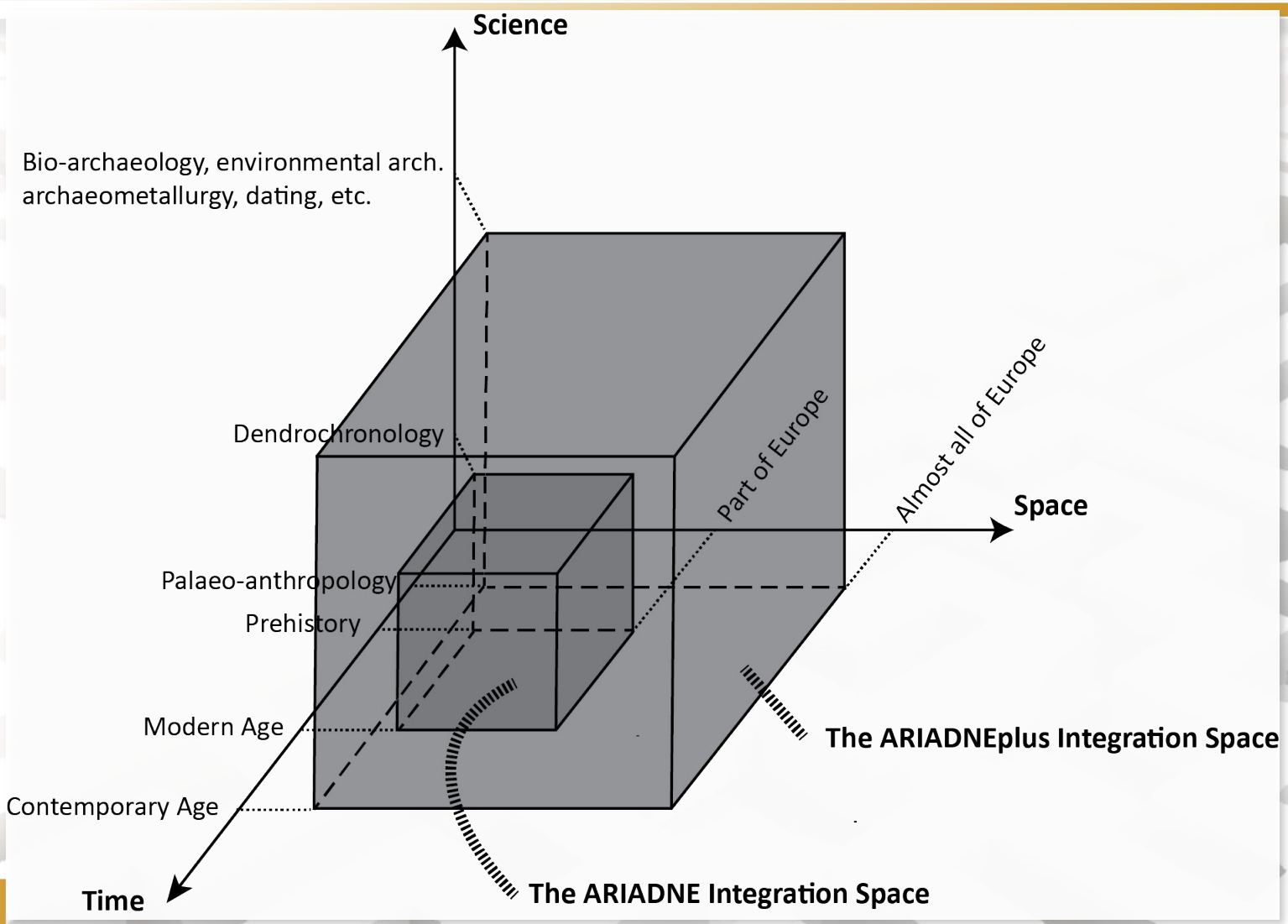
Enlarged partnership

ARIADNE

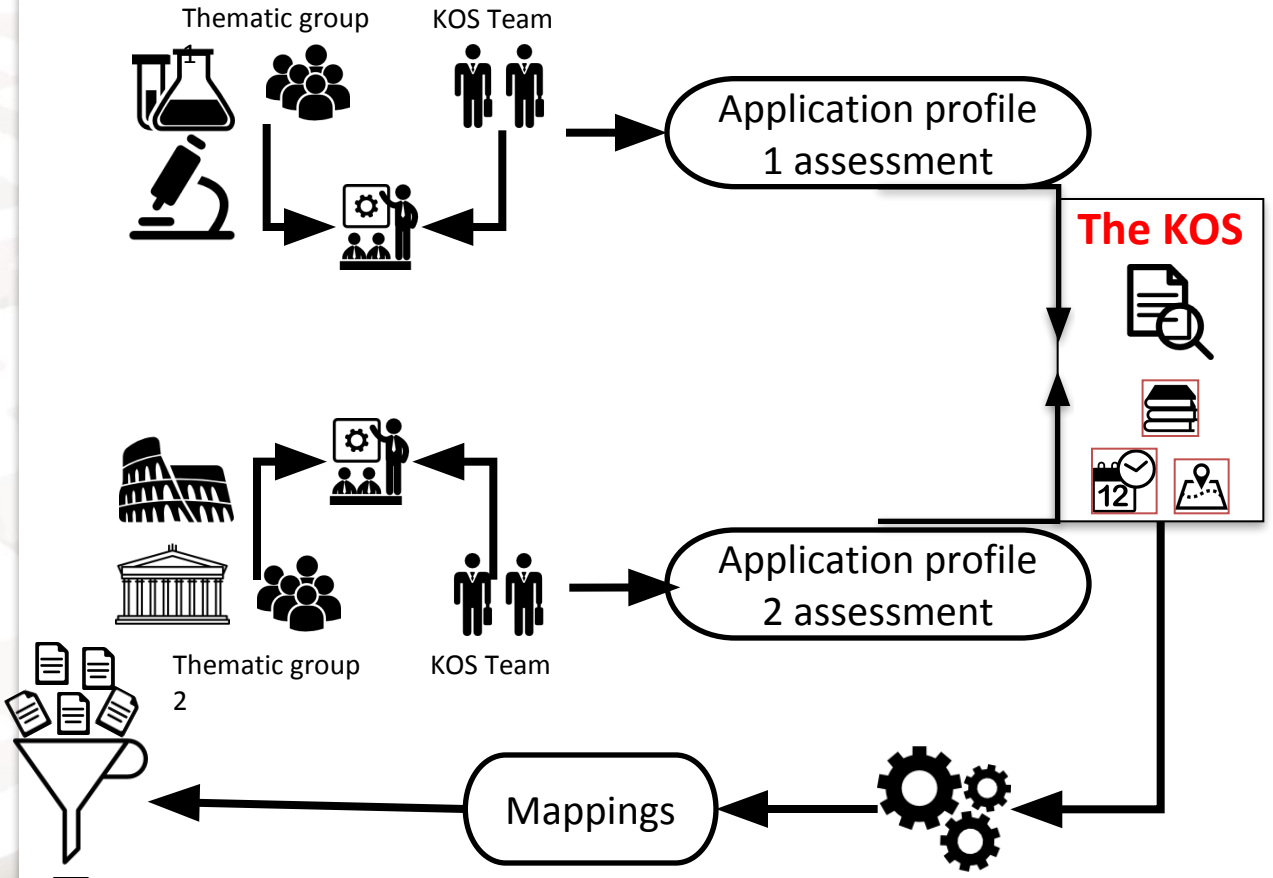


ARIADNEplus

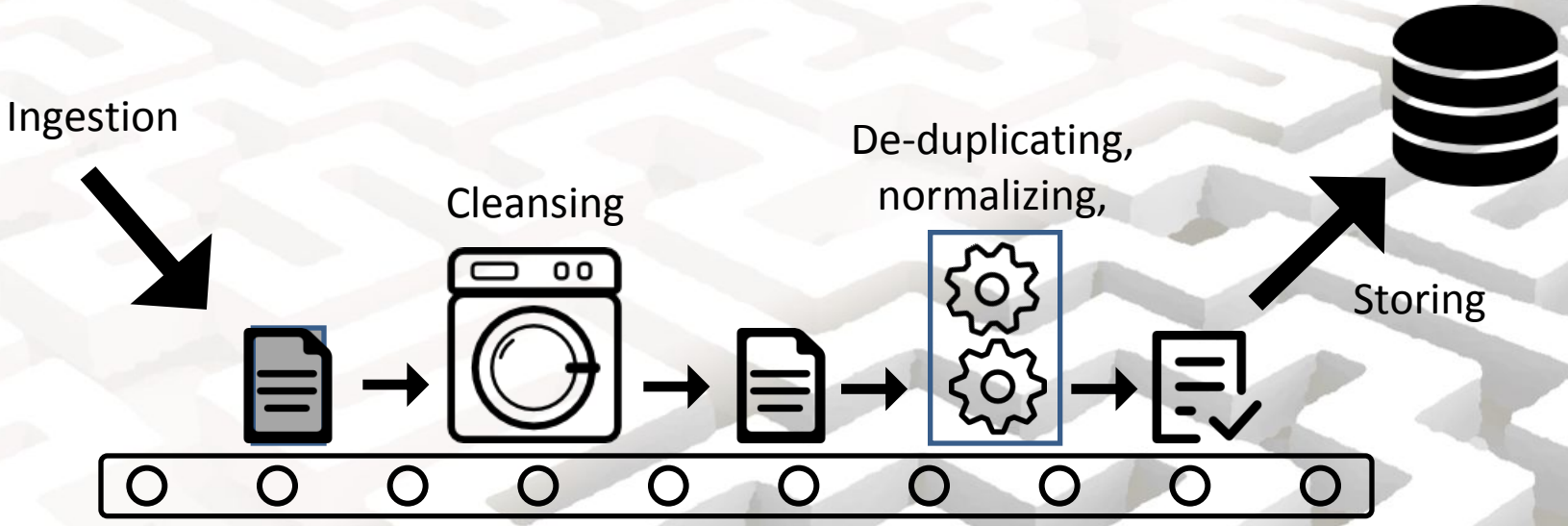
Improved scope

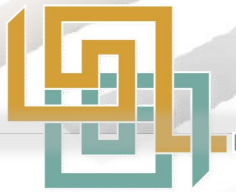


Creating the ARIADNEplus KOS

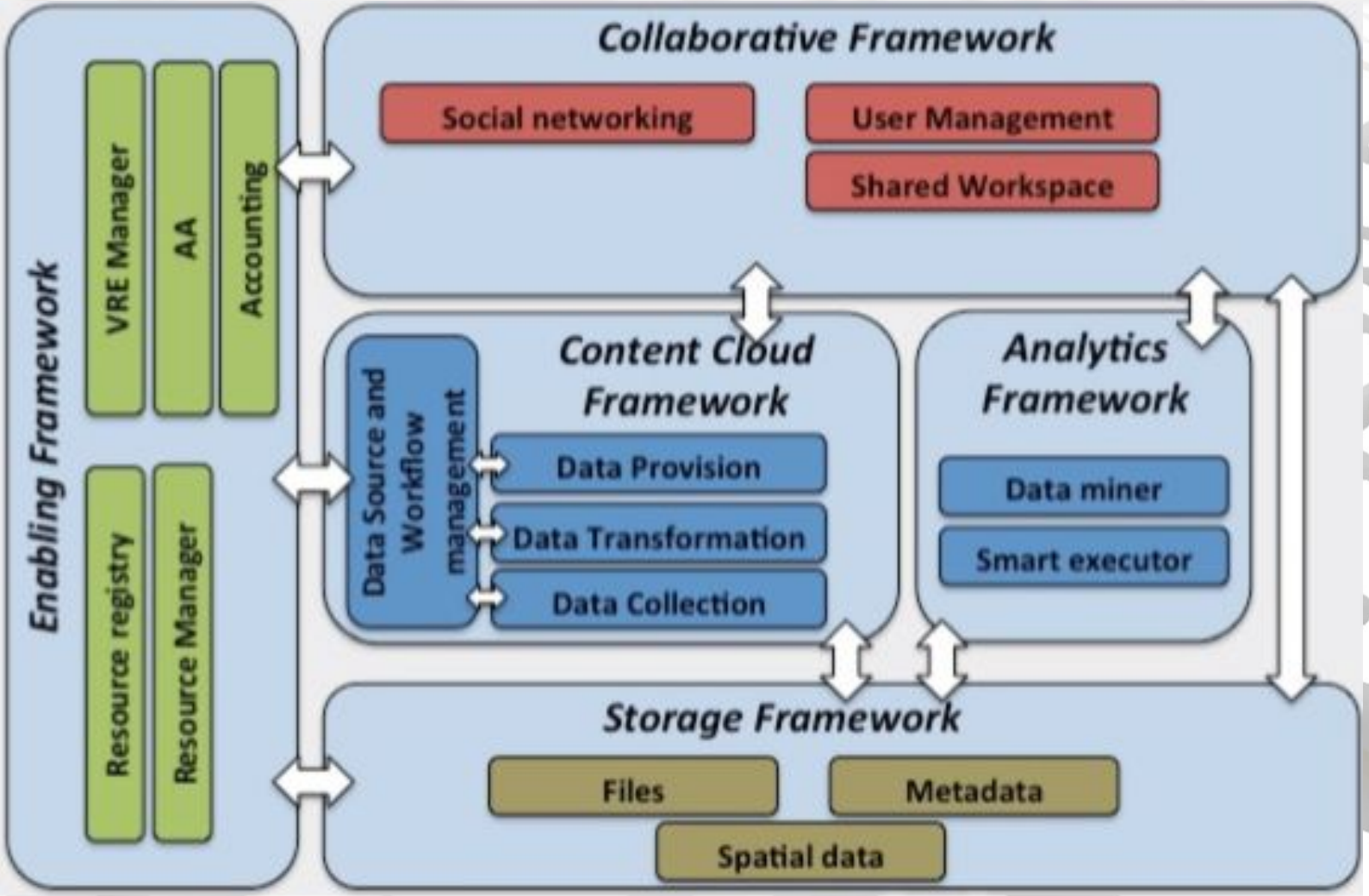


Preparing the data

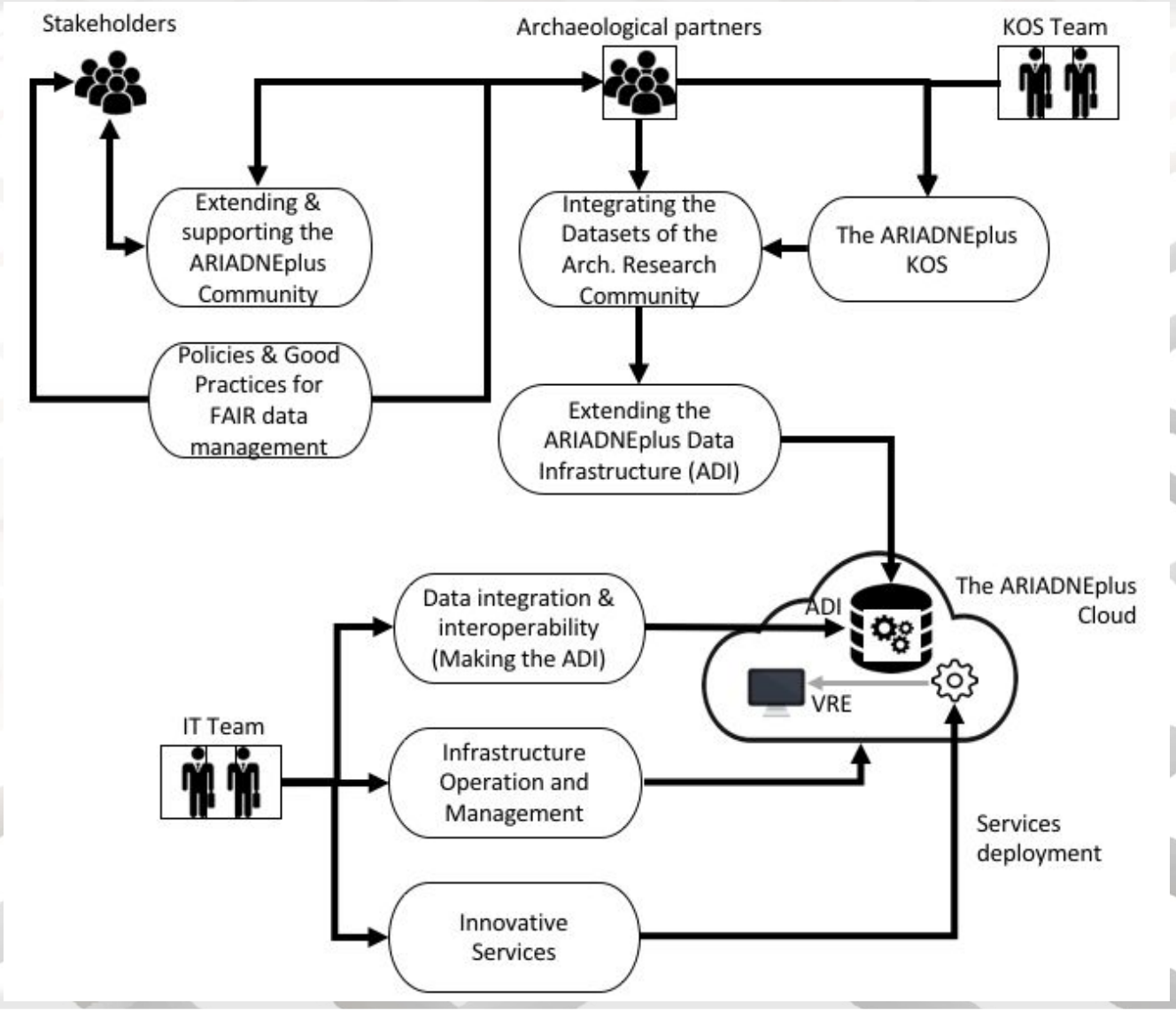




Setting up the digital infrastructure



Creating a research ecosystem…



…and a Virtual Research Environment