



Towards DARIAH-PL e-infrastructure

Tomasz Parkoła, Ewa Kuśmerek, Dominik Purchała

info@lab.dariah.pl

<https://lab.dariah.pl/>

European
Funds
Smart Growth

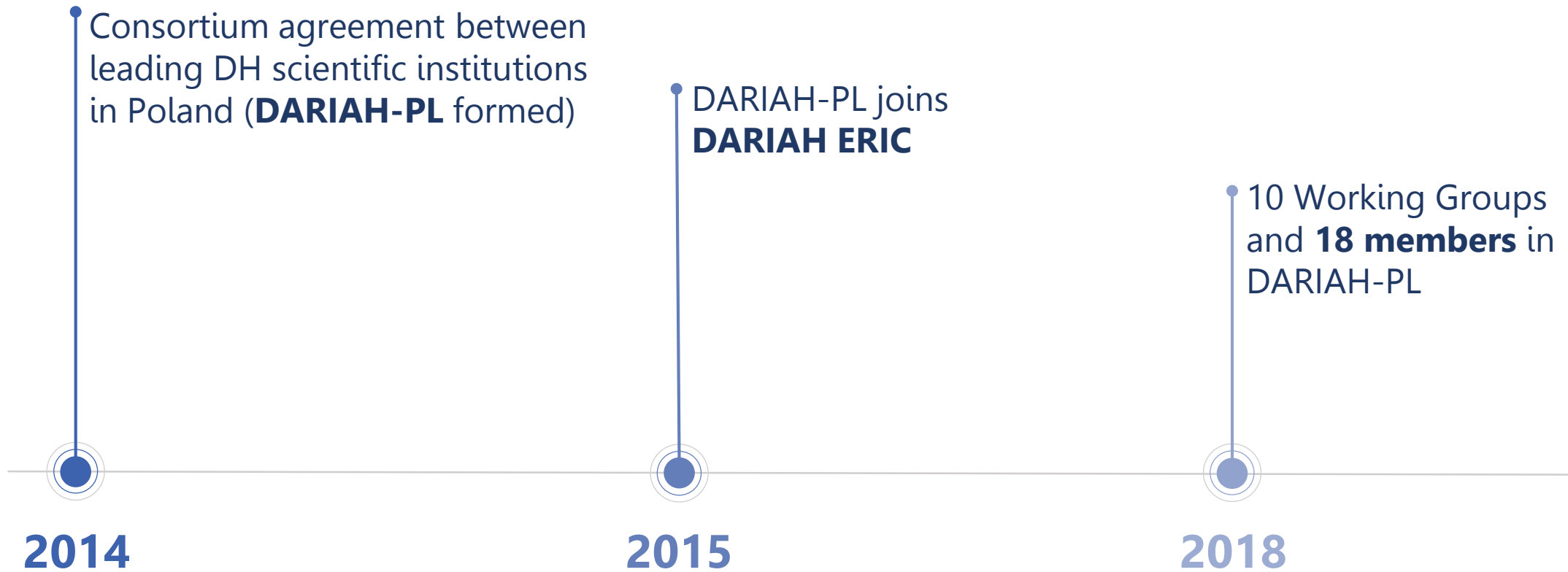


Republic
of Poland

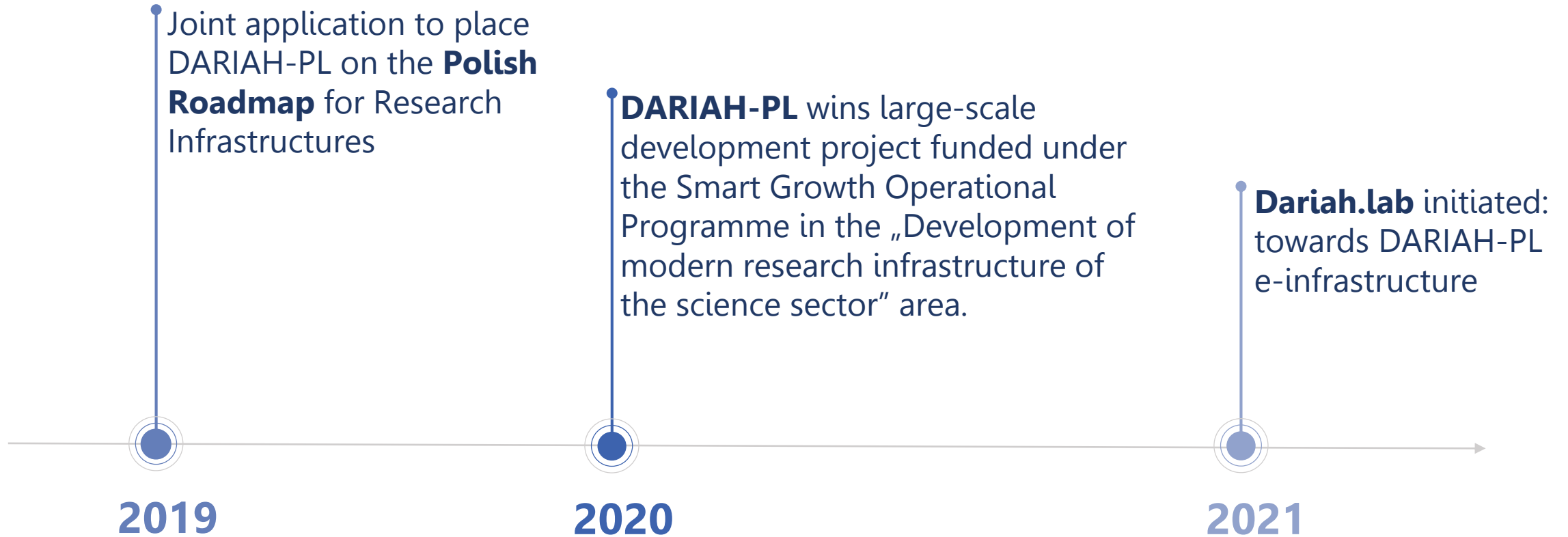
European Union
European Regional
Development Fund



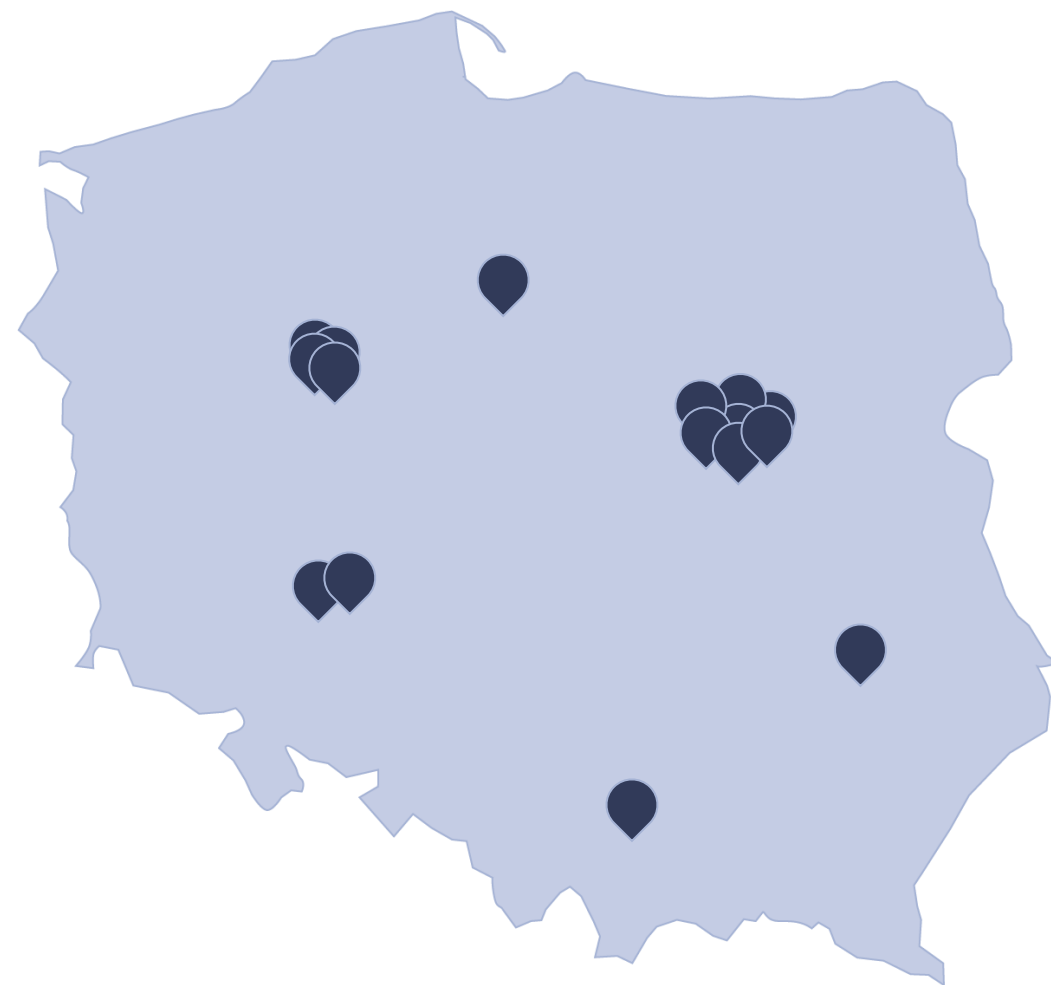
Key milestones for DARIAH-PL



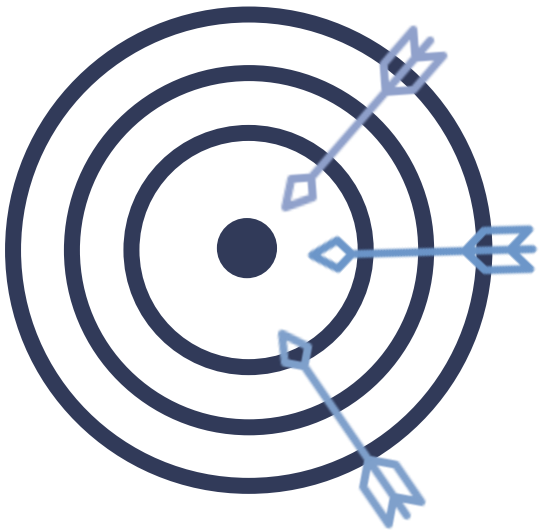
Key milestones for DARIAH-PL



University of Warsaw
Institute of Literary Research PAS
Poznań Supercomputing and Networking Center
Academy of Fine Arts in Warsaw
Institute of History PAS
Institute of Computer Science PAS
Institute of Slavic Studies PAS
Institute of Polish Language PAS
Poznań University of Technology
Adam Mickiewicz University
Jagiellonian University in Kraków
Wrocław University of Science and Technology
Maria Curie-Skłodowska University
University of Wrocław
Institute of Arts PAS
Nicolaus Copernicus University in Toruń



The aim of the project is to build Dariah.lab infrastructure

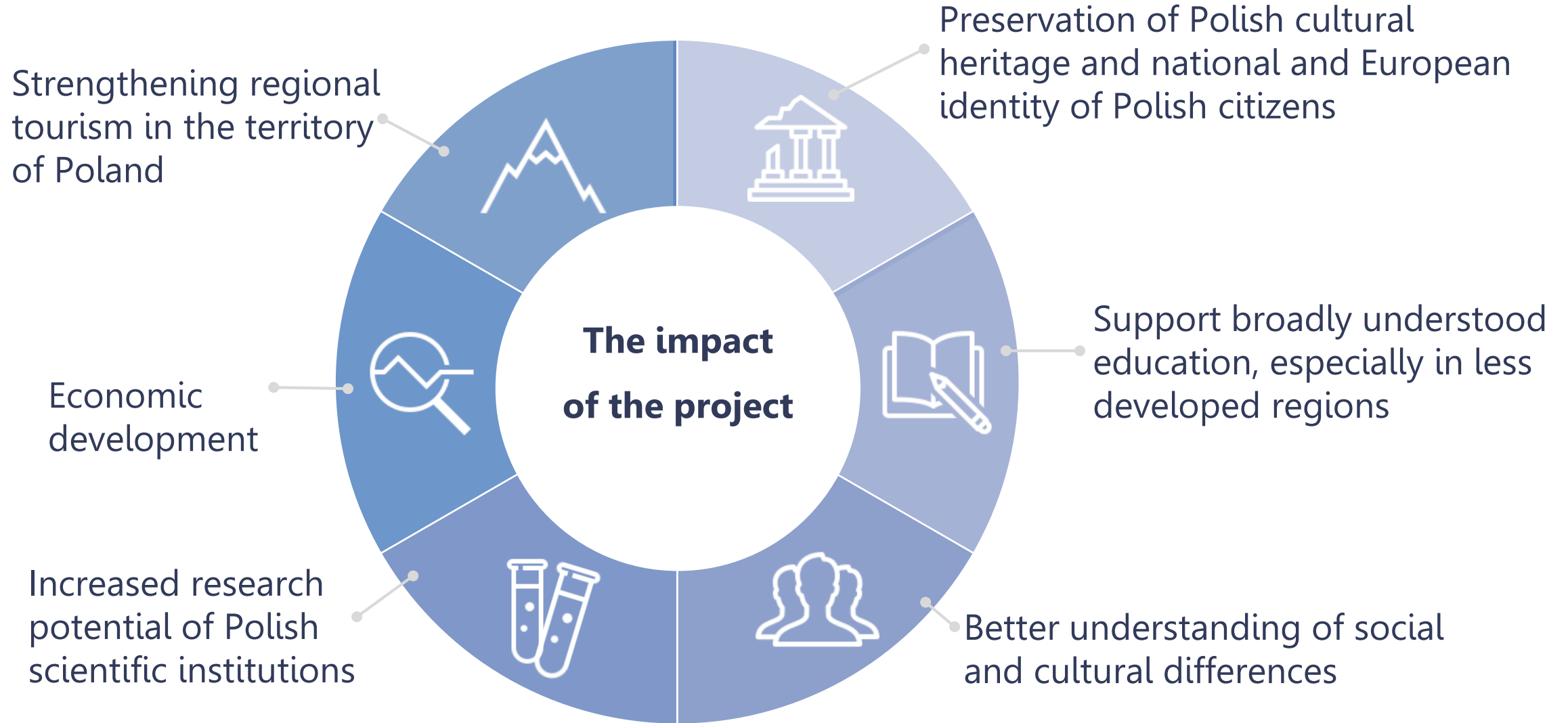


Laboratory equipment, software tools, integrated digital resources from various fields of art and humanities research

5 distributed research laboratories:

- Laboratory of sources
- Laboratory of automatic enrichment,
- Laboratory of supervised semantic discovery,
- Laboratory of intelligent analysis and interpretation,
- Laboratory of advanced visualization.

Strong economic focus – the infrastructure has to find its partial use in the commercial sector



Geoarcheology

Supports non-invasive analysis and documentation of land, landscape or monuments.

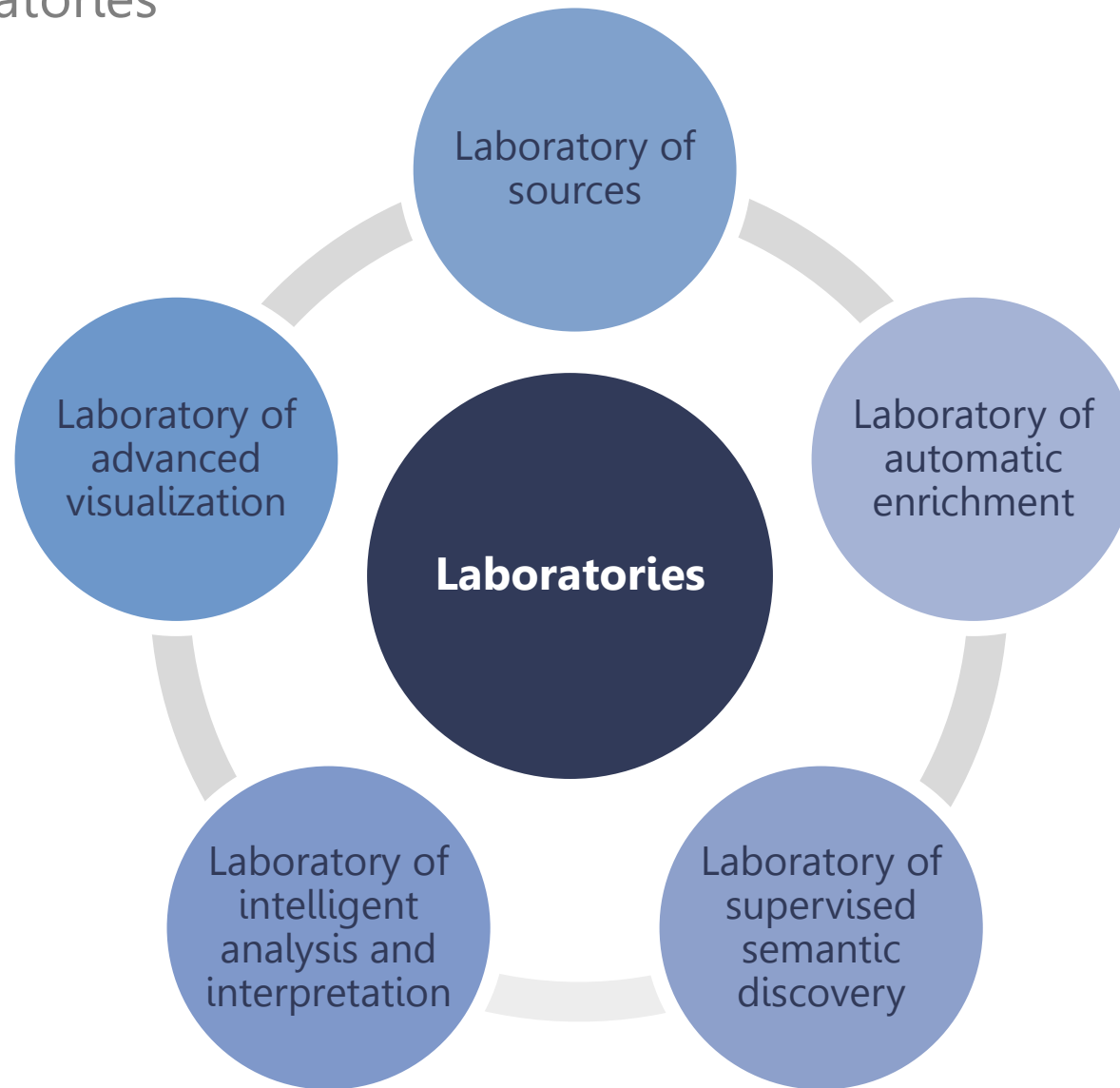


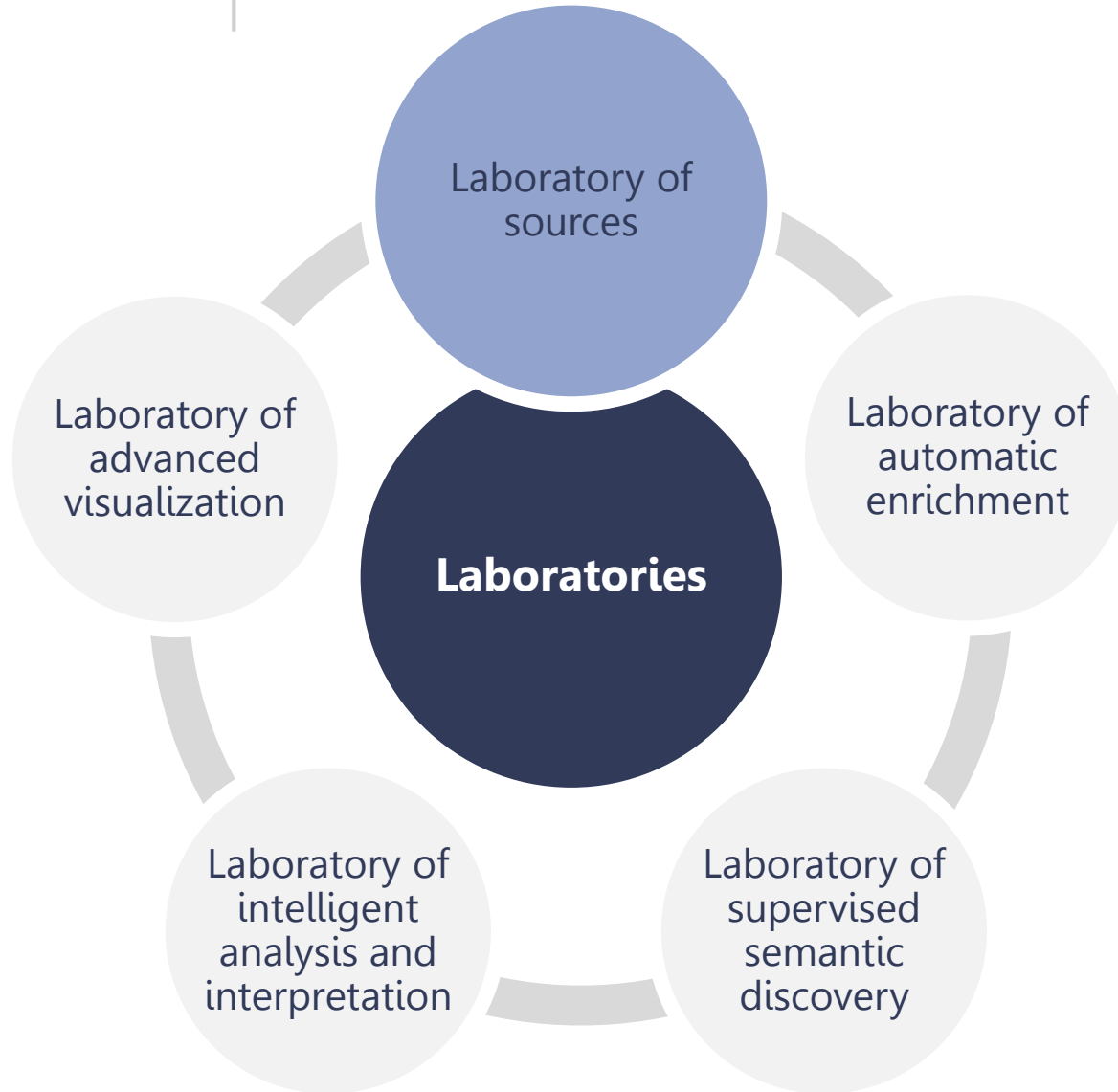
Cultural heritage

Supports access to and analysis of information about national culture in all its dimensions, i.e. source texts, their annotated critical editions, information about objects and forms of culture, etc.

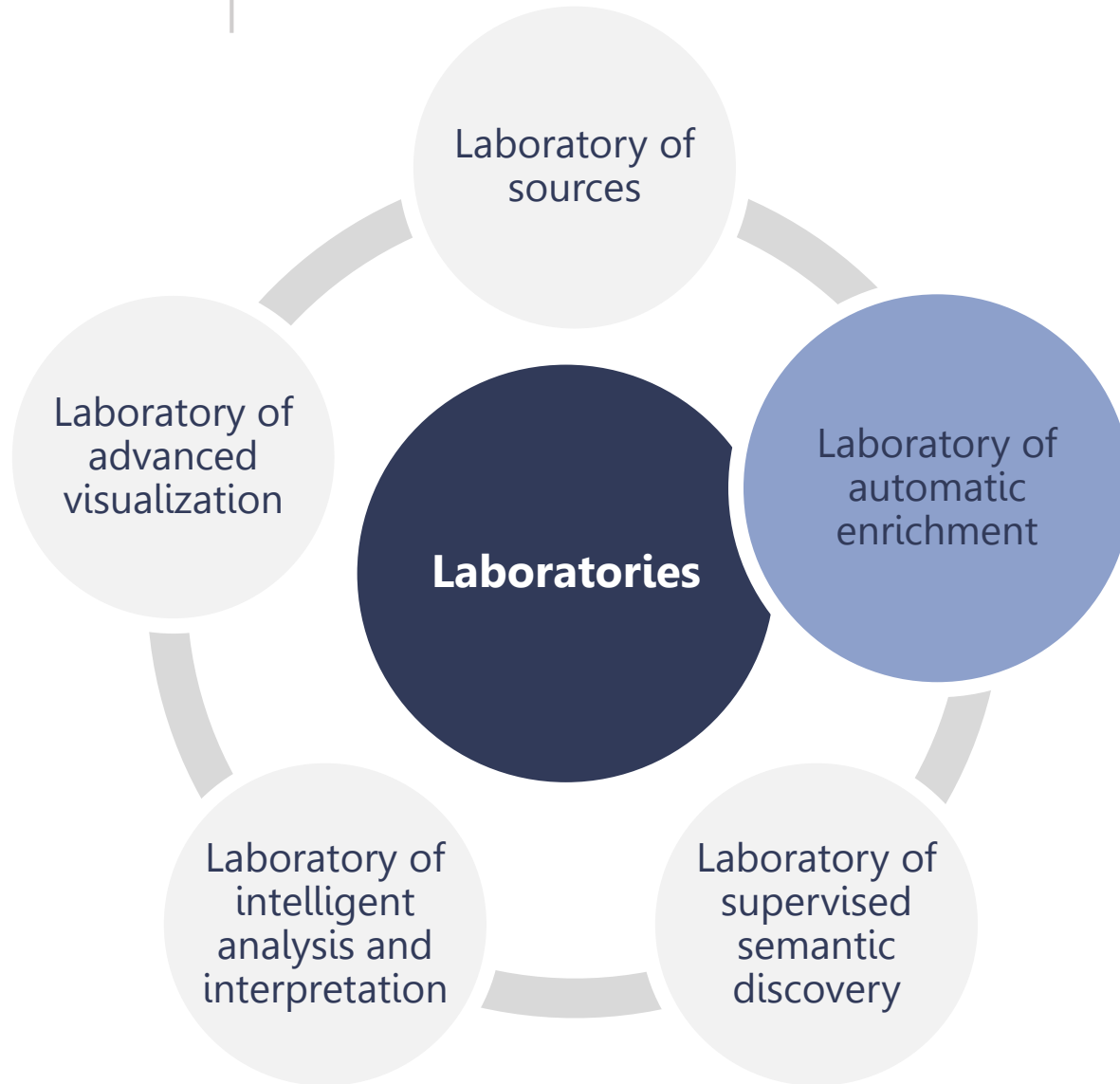
Musicology

Supports research on traditional music and research on the perception of musical phenomena (human cognitive sphere).



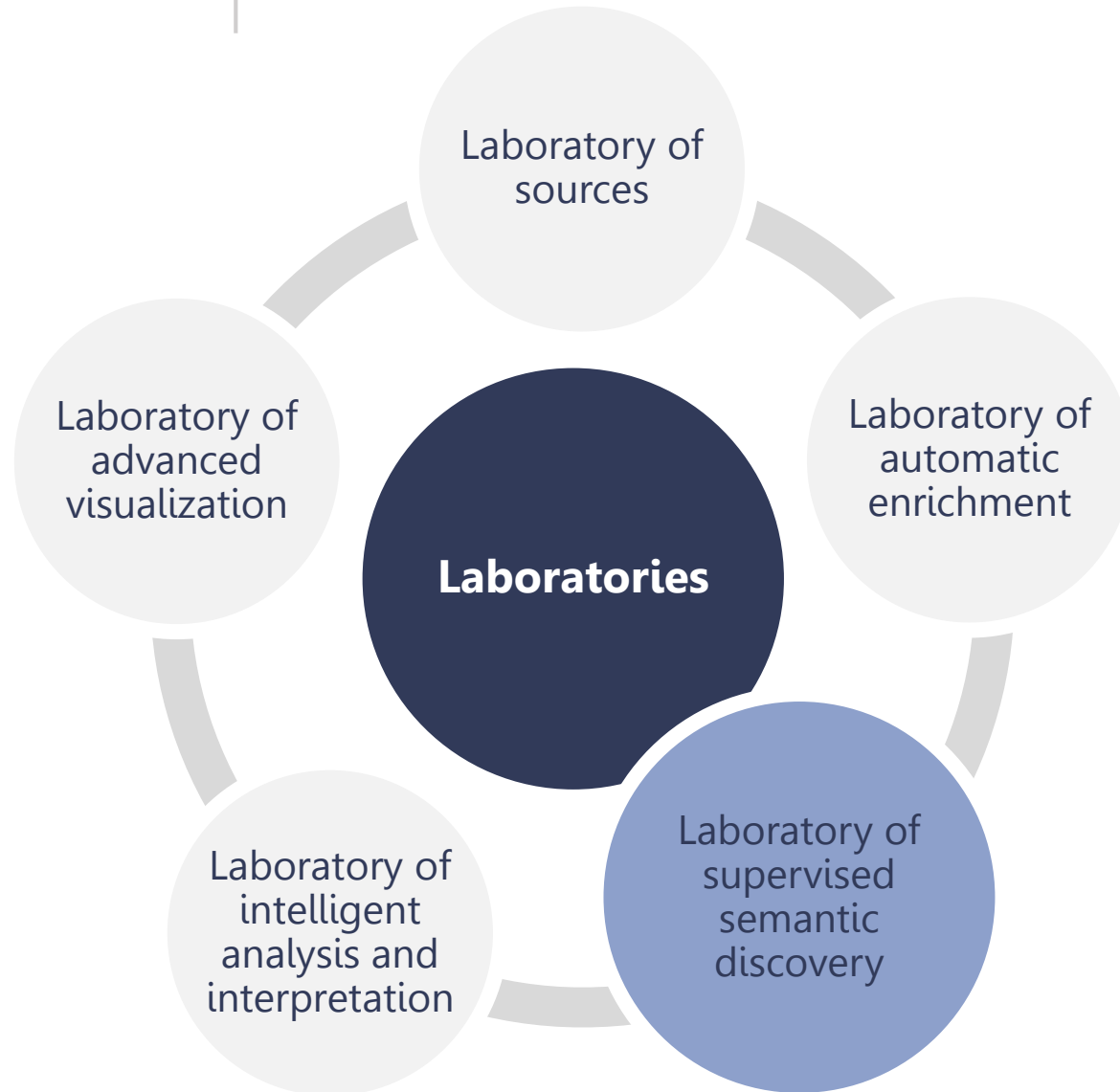


- Equipment to advance archeology, musicology and cultural heritage research
- Software/services for PIDs, SaaS (data) repositories, high-volume data streaming as well as multimodal corpuses



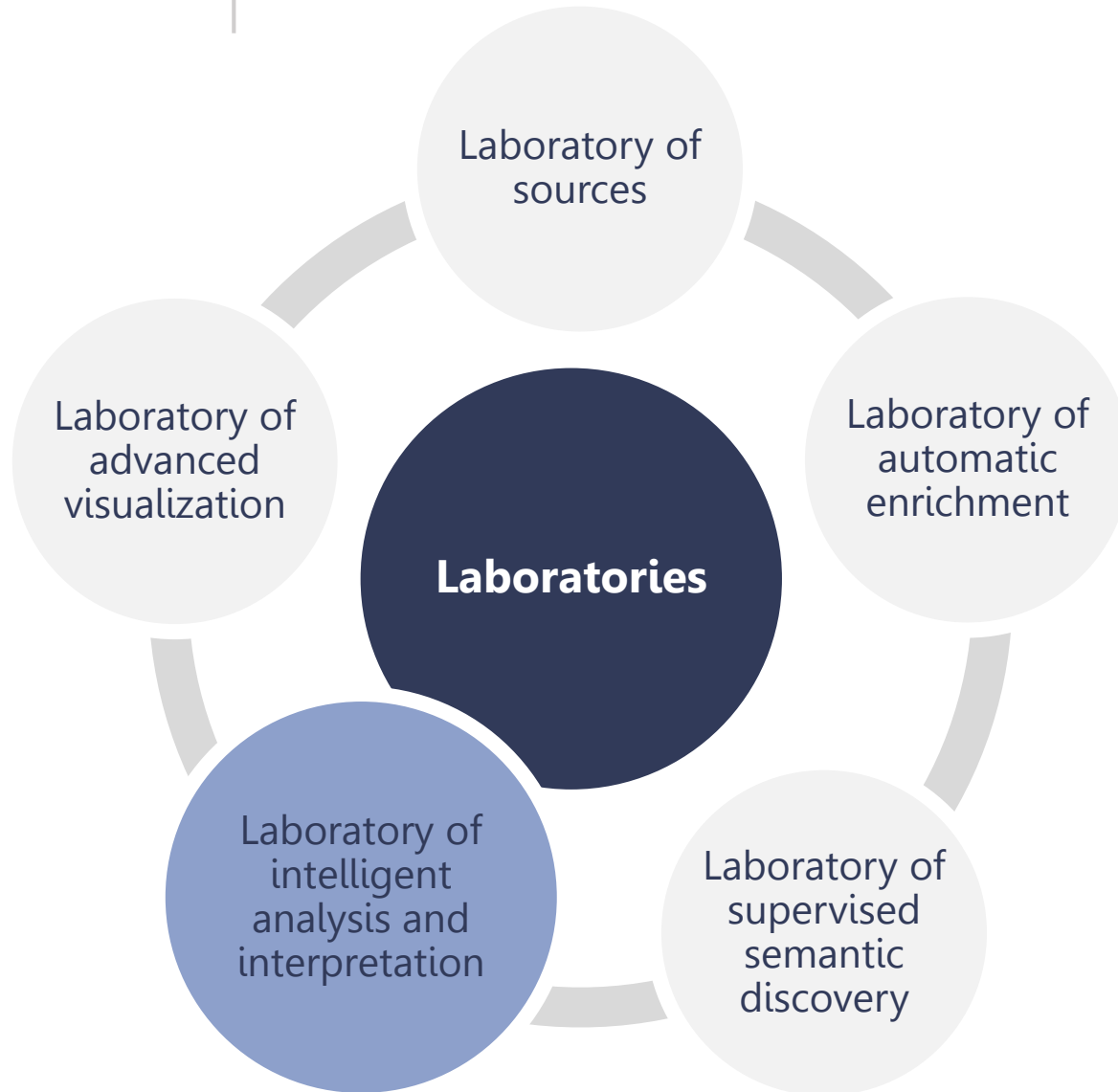
Software/services for:

- Text, voice and music recognition,
- Automated data classification,
- Transcription, transliteration, translation and annotation.



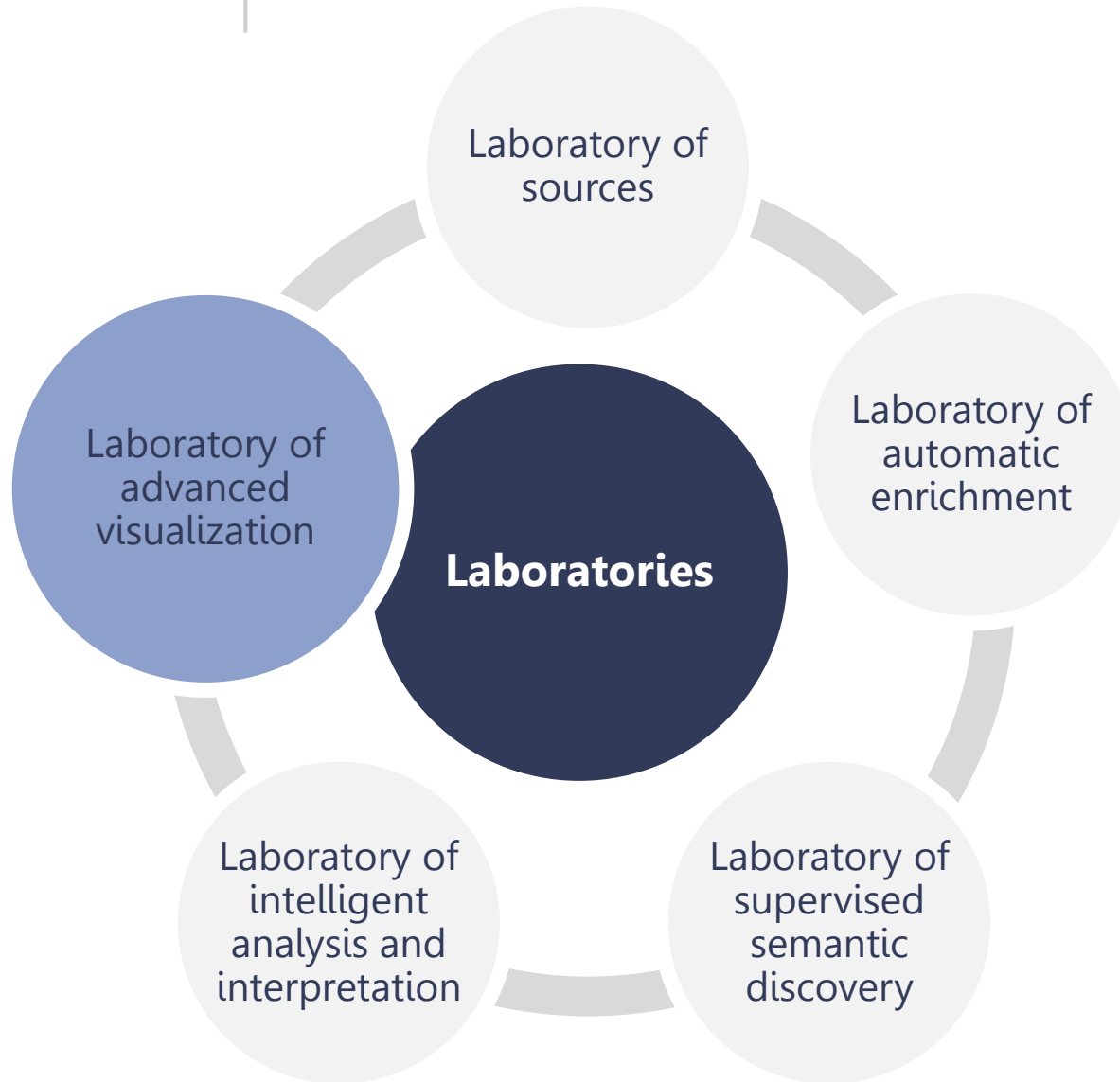
Software/services for:

- Data aggregation and consolidation,
- Dictionaries and thesauruses,
- Data mapping



Software/services for:

- Interactive data analytics
- Music, speech and gesture perception



Equipment and software/services for:

- Large-format and 3D visualisation with 3D gaming engines support (e.g. 4K projectors, Unity, Unreal),
- Geospatial visualisation and physical visualisation (e.g. 3D printers).

Scenario-based analysis



Stimulate deeper cooperation between humanities, computer science and cultural heritage via multidisciplinary teams working together to build the e-infrastructure.

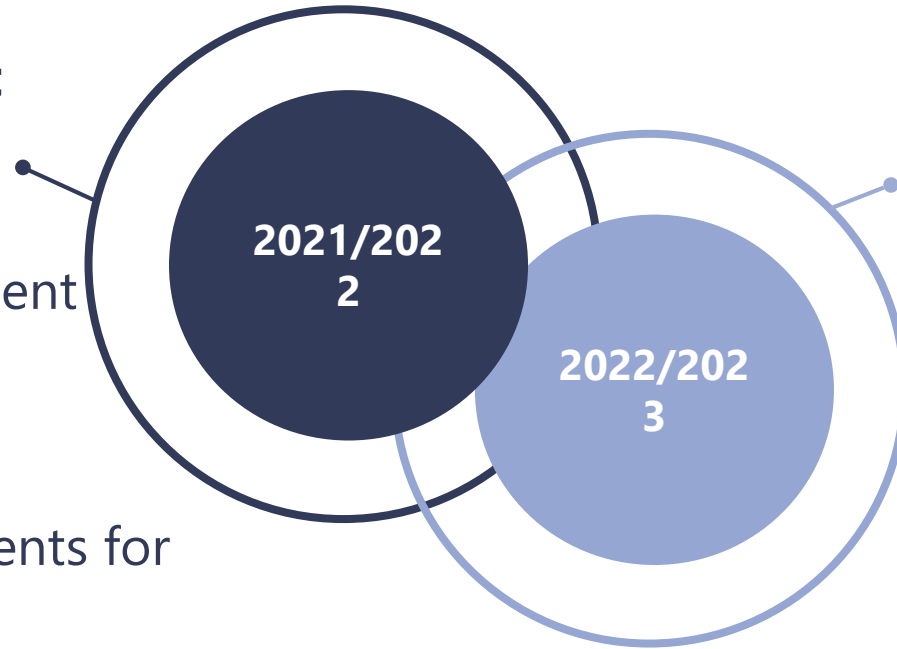
Complex infrastructure with a common single interface



**Laboratory equipment
in place & usage
scenarios defined**

Call for tenders, equipment
delivery, configuration

Usage scenarios for the
infrastructure, requirements for
software components

**E-infrastructure developed
and operational**

Software components developed
and integrated with laboratory
equipment

Sustainability and operational
model defined

01

Dariah.lab is built to serve digital art and humanities research in three pillars: archaeology, musicology and cultural heritage.

02

Operational level of e-infrastructure is planned to be achieved in 2023.

!Dariah.lab

Thank you!

e-mail: info@lab.dariah.pl

www: <https://lab.dariah.pl/>

