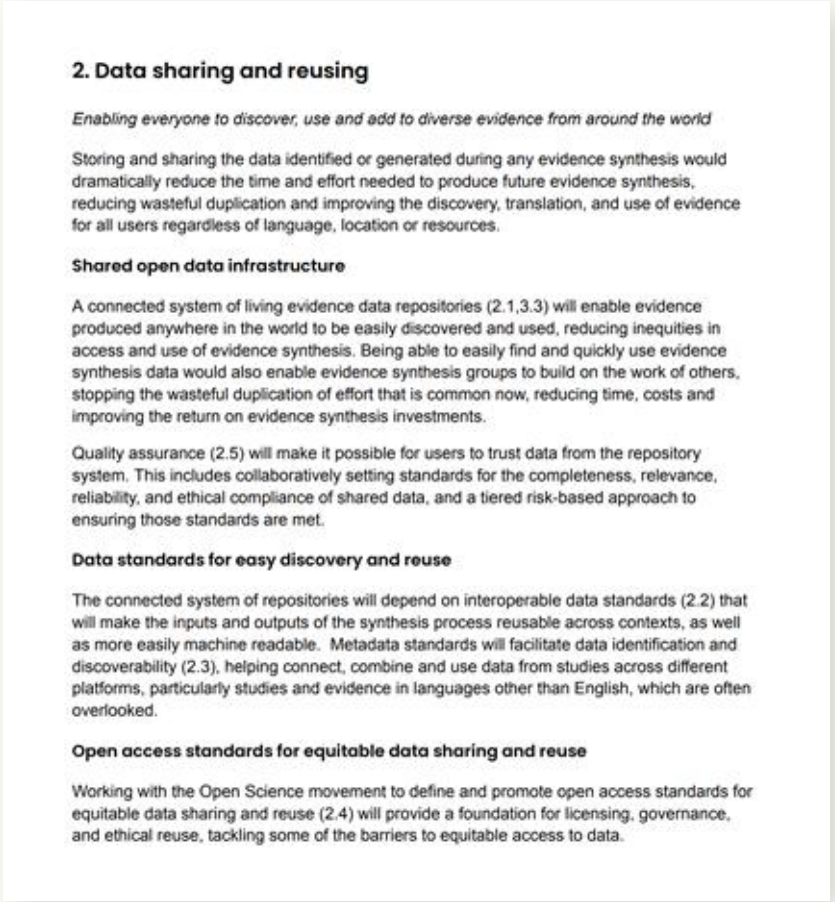
ESIC Open Data System Touchpoint #1

Where we are currently with existing investments

Enabling everyone to discover, use and add to diverse evidence from around the world

- A connected system of living evidence data repositories with data standards, interoperability & quality assurance
    - Deliver open, harmonised, synthesis-ready data
- Empower those traditionally excluded from power
- Be driven by and accountable to diverse evidence users
- Harness the capability of AI, cognisant of limitations & uncertainty
- Focused on data / evidence for synthesis, so NOT:
    - duplicating existing evidence synthesis tools / platforms (but will support them)
    - trying to be a new database for the whole of science



2. Data sharing and reusing

Enabling everyone to discover, use and add to diverse evidence from around the world

Storing and sharing the data identified or generated during any evidence synthesis would dramatically reduce the time and effort needed to produce future evidence synthesis, reducing wasteful duplication and improving the discovery, translation, and use of evidence for all users regardless of language, location or resources.

Shared open data infrastructure

A connected system of living evidence data repositories (2.1,3.3) will enable evidence produced anywhere in the world to be easily discovered and used, reducing inequities in access and use of evidence synthesis. Being able to easily find and quickly use evidence synthesis data would also enable evidence synthesis groups to build on the work of others, stopping the wasteful duplication of effort that is common now, reducing time, costs and improving the return on evidence synthesis investments.

Quality assurance (2.5) will make it possible for users to trust data from the repository system. This includes collaboratively setting standards for the completeness, relevance, reliability, and ethical compliance of shared data, and a tiered risk-based approach to ensuring those standards are met.

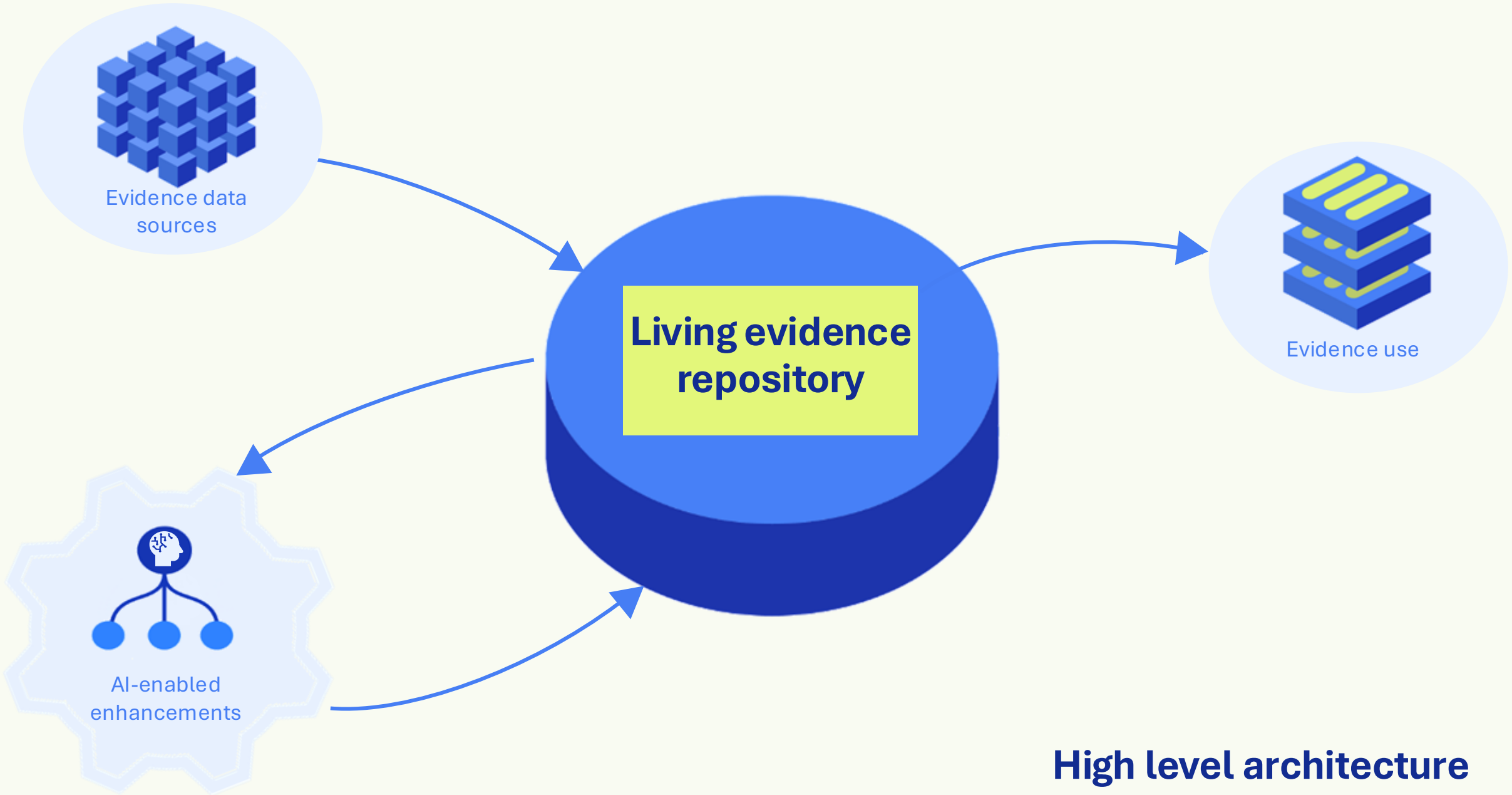
Data standards for easy discovery and reuse

The connected system of repositories will depend on interoperable data standards (2.2) that will make the inputs and outputs of the synthesis process reusable across contexts, as well as more easily machine readable. Metadata standards will facilitate data identification and discoverability (2.3), helping connect, combine and use data from studies across different platforms, particularly studies and evidence in languages other than English, which are often overlooked.

Open access standards for equitable data sharing and reuse

Working with the Open Science movement to define and promote open access standards for equitable data sharing and reuse (2.4) will provide a foundation for licensing, governance, and ethical reuse, tackling some of the barriers to equitable access to data.

(Image taken from the ESIC Roadmap)

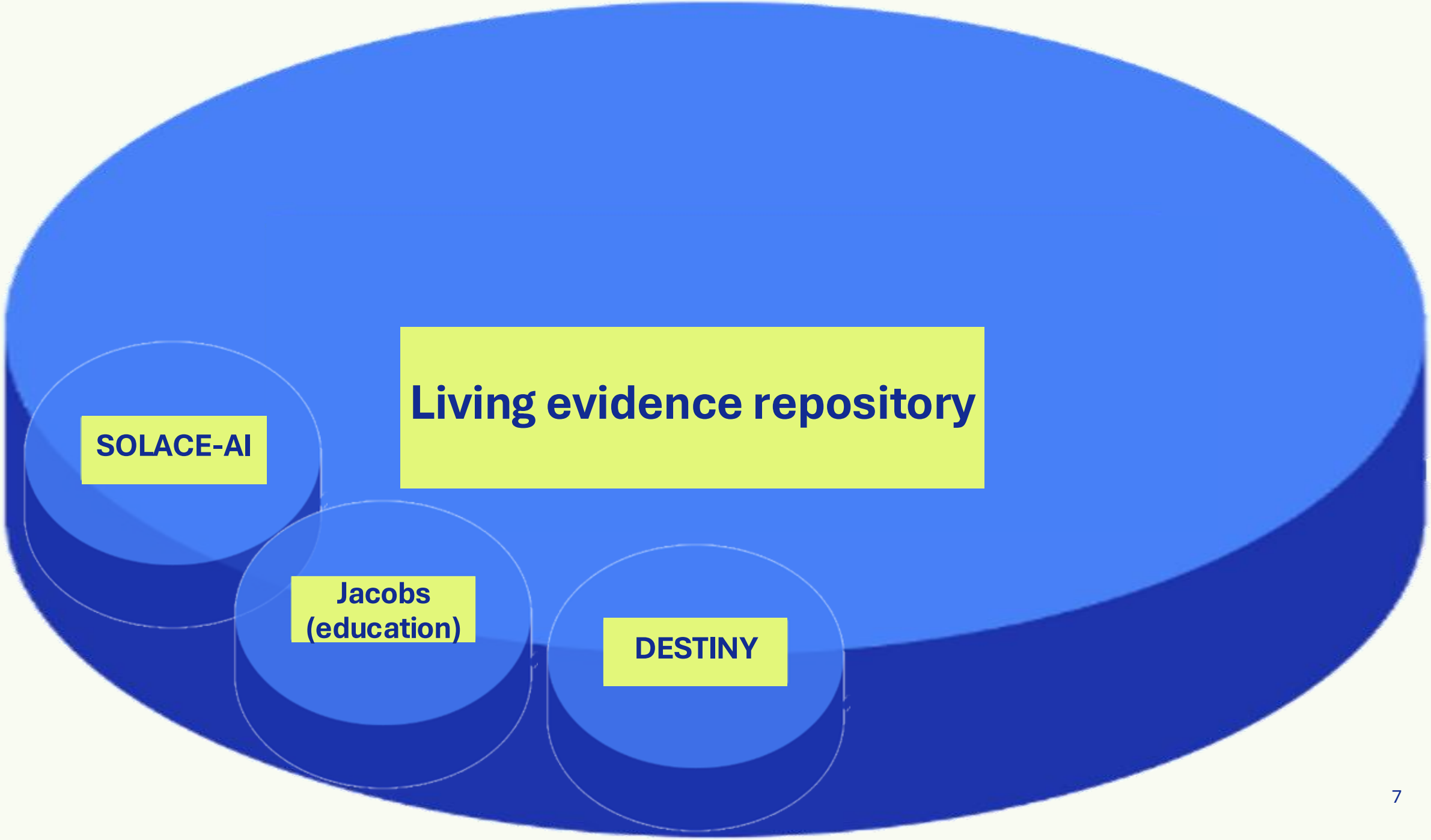


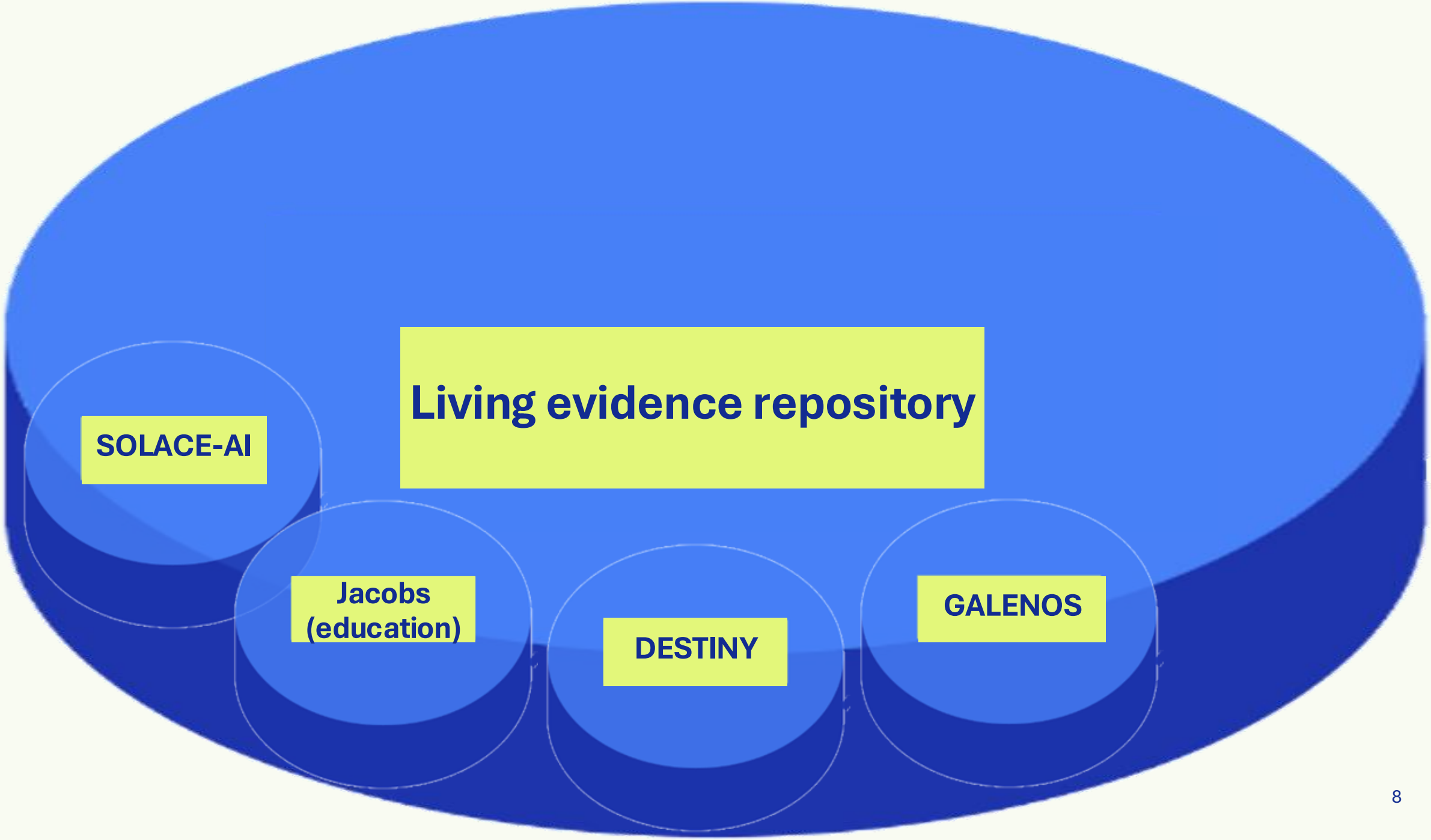
High level architecture


Living evidence repository


Living evidence repository
DESTINY


Living evidence repository
SOLACE-AI
DESTINY


Living evidence repository
SOLACE-AI
Jacobs (education)
DESTINY


Living evidence repository
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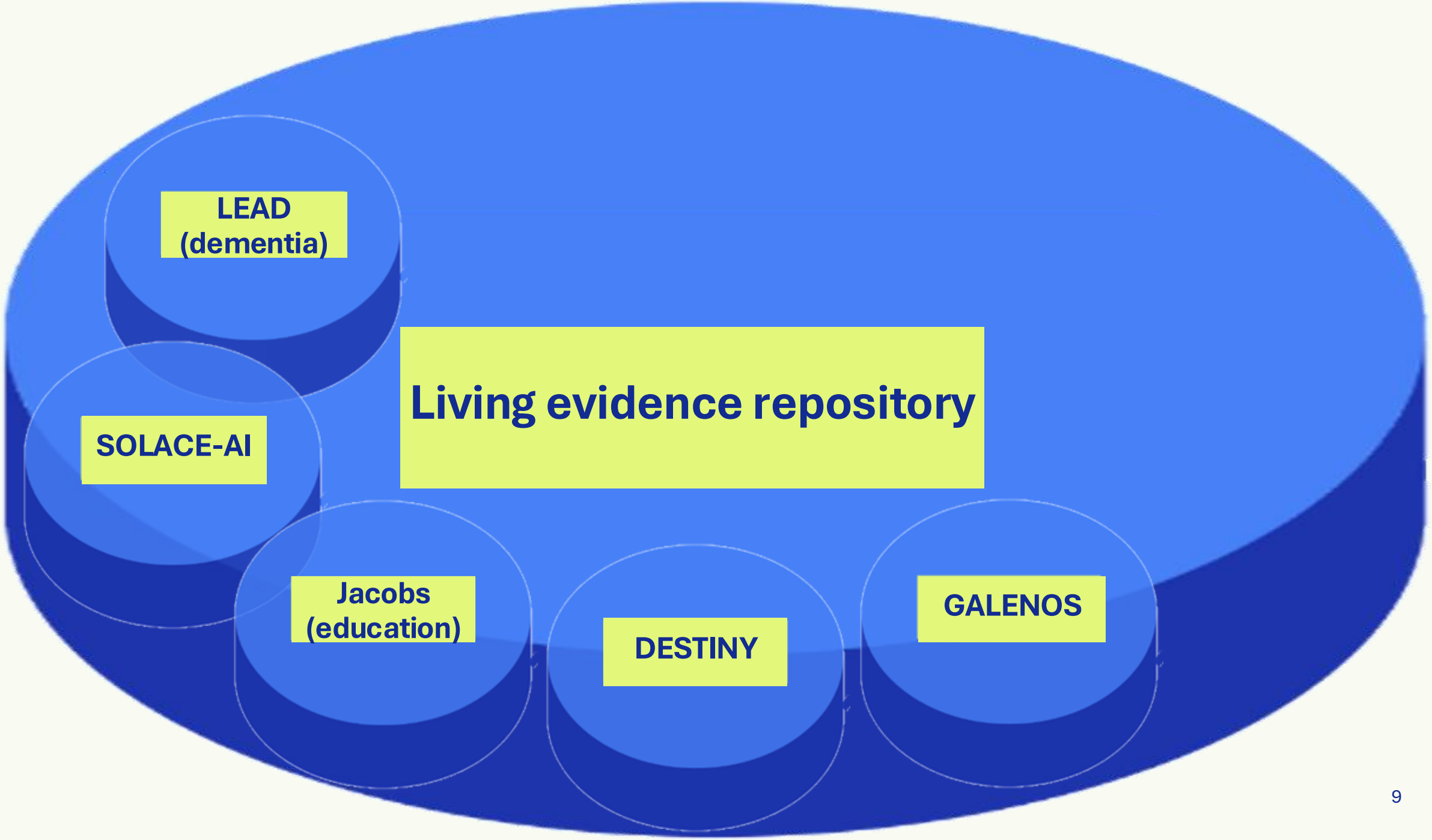
DESTINY
GALENOS


LEAD
(dementia)
SOLACE-AI
Living evidence repository
Jacobs
(education)
DESTINY
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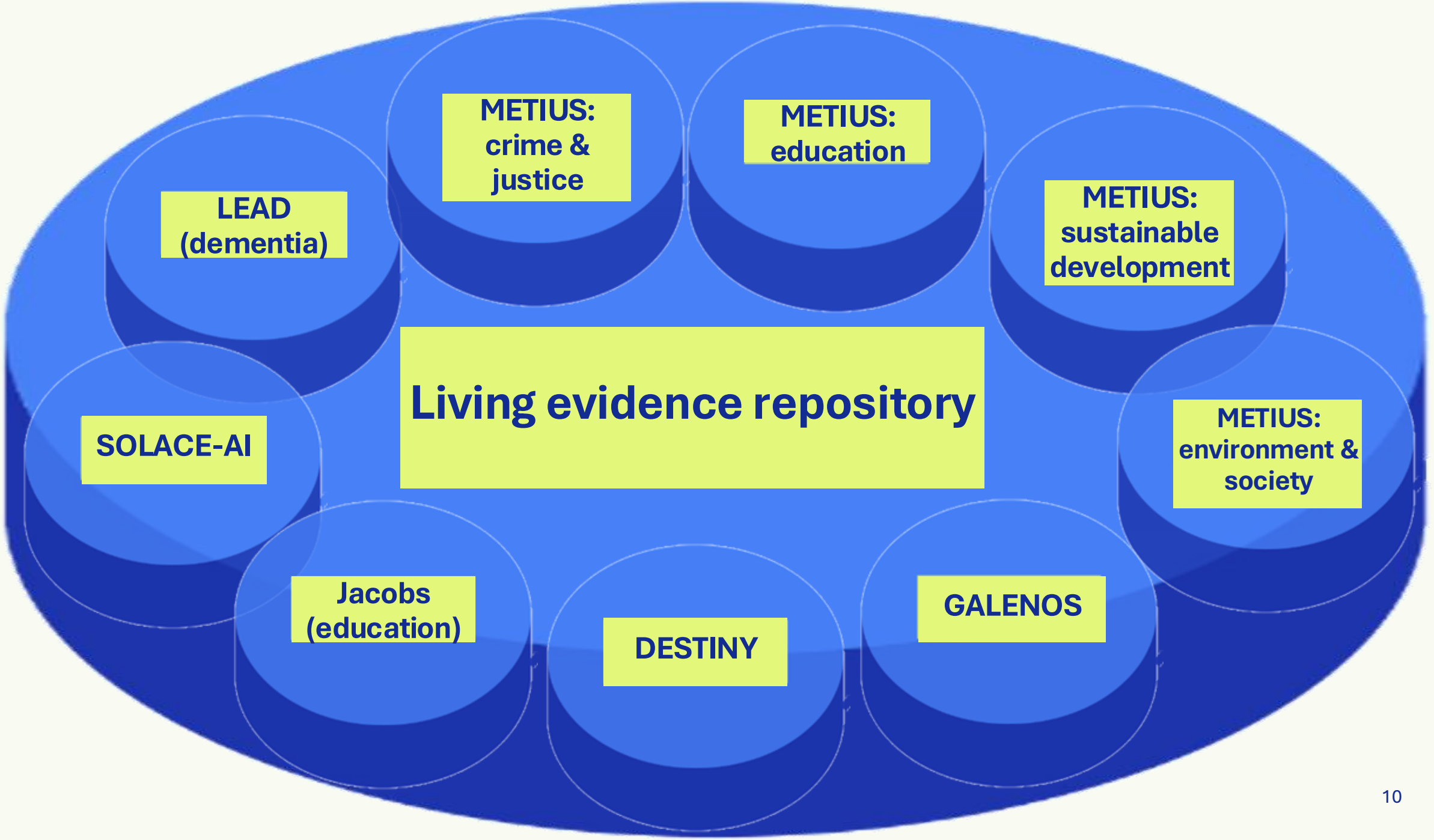
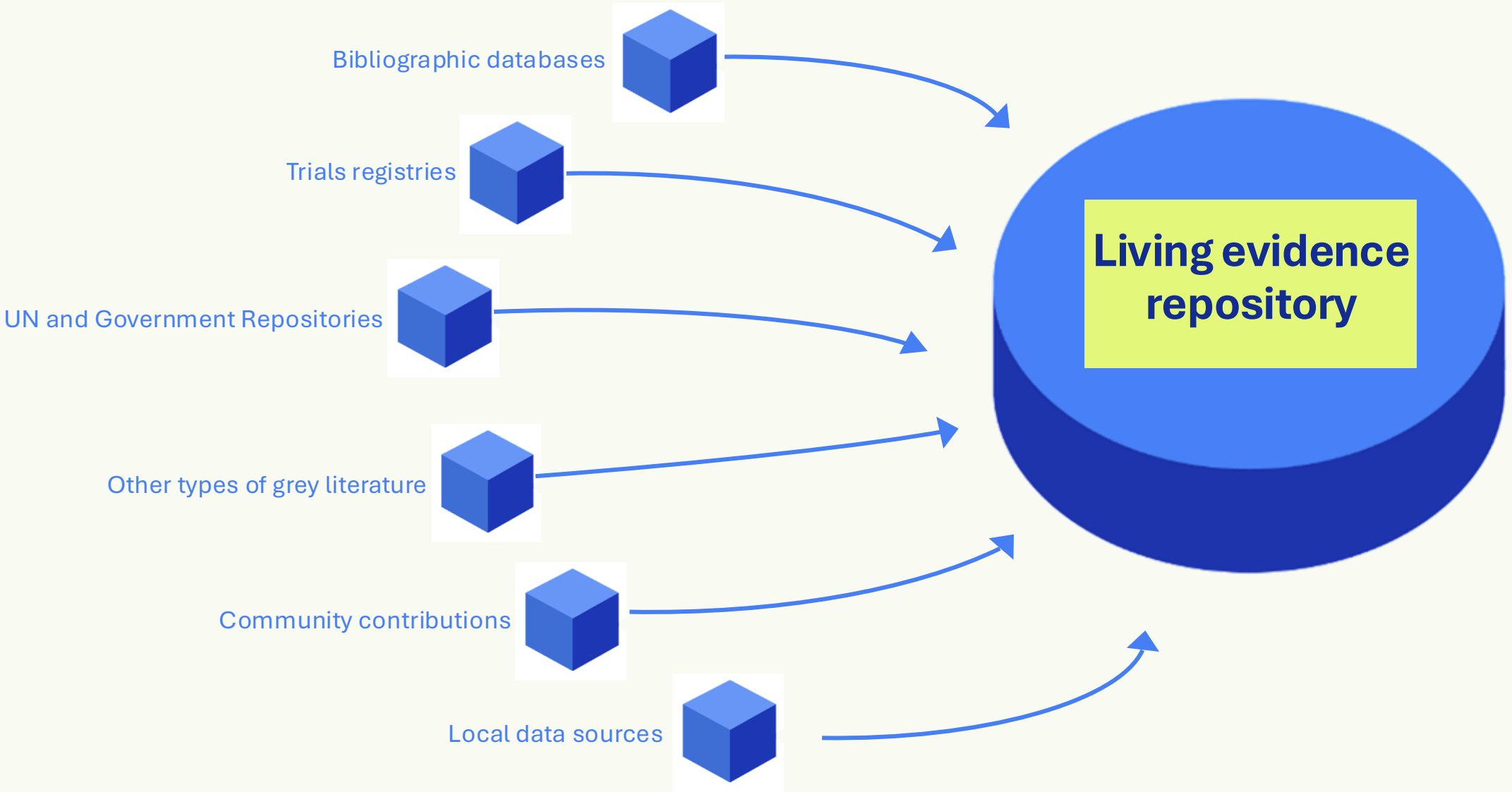
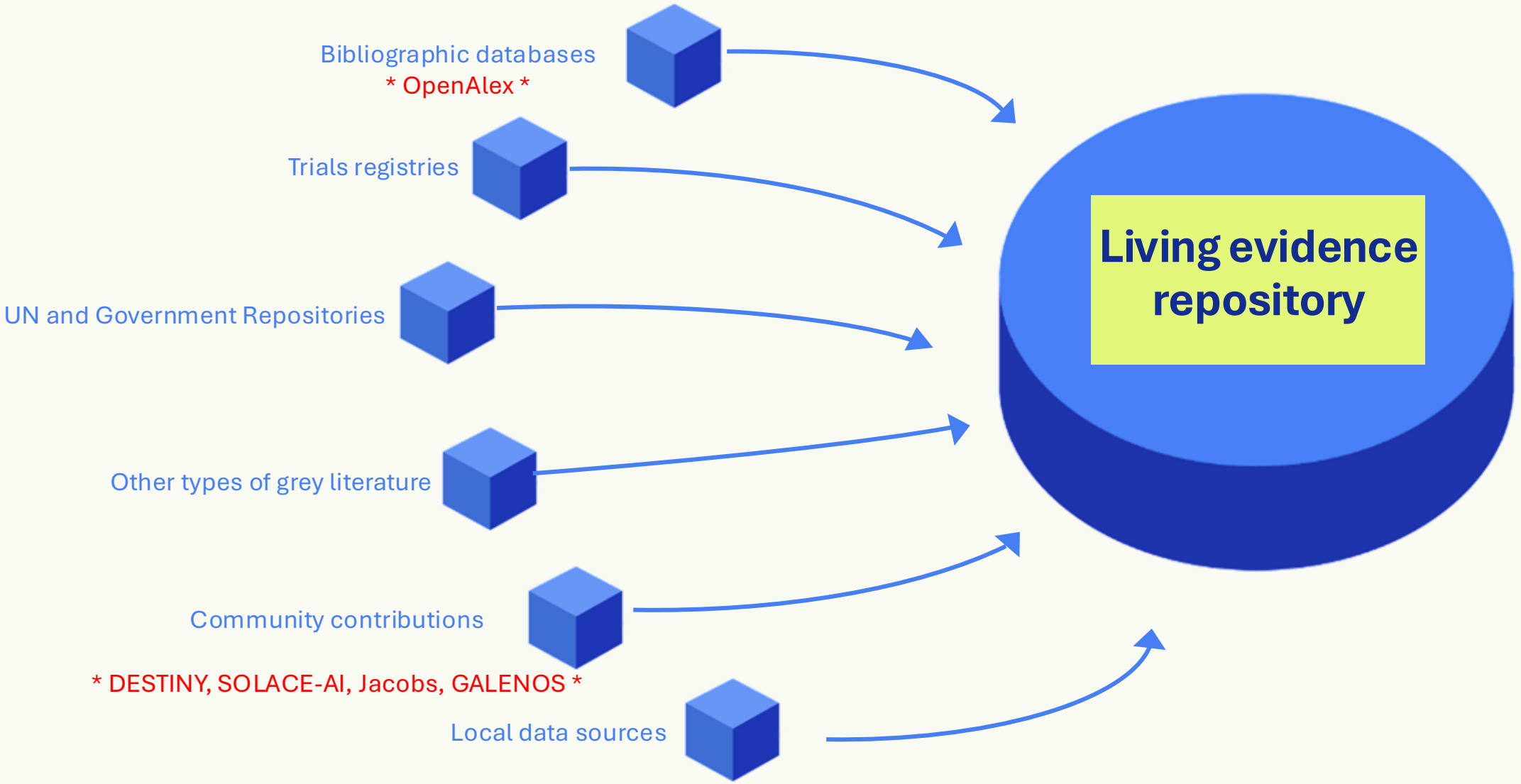

METIUS: crime & justice
METIUS: education
LEAD (dementia)
METIUS: sustainable development
Living evidence repository
SOLACE-AI
METIUS: environment & society
Jacobs (education)
DESTINY
GALENOS


Living evidence repository

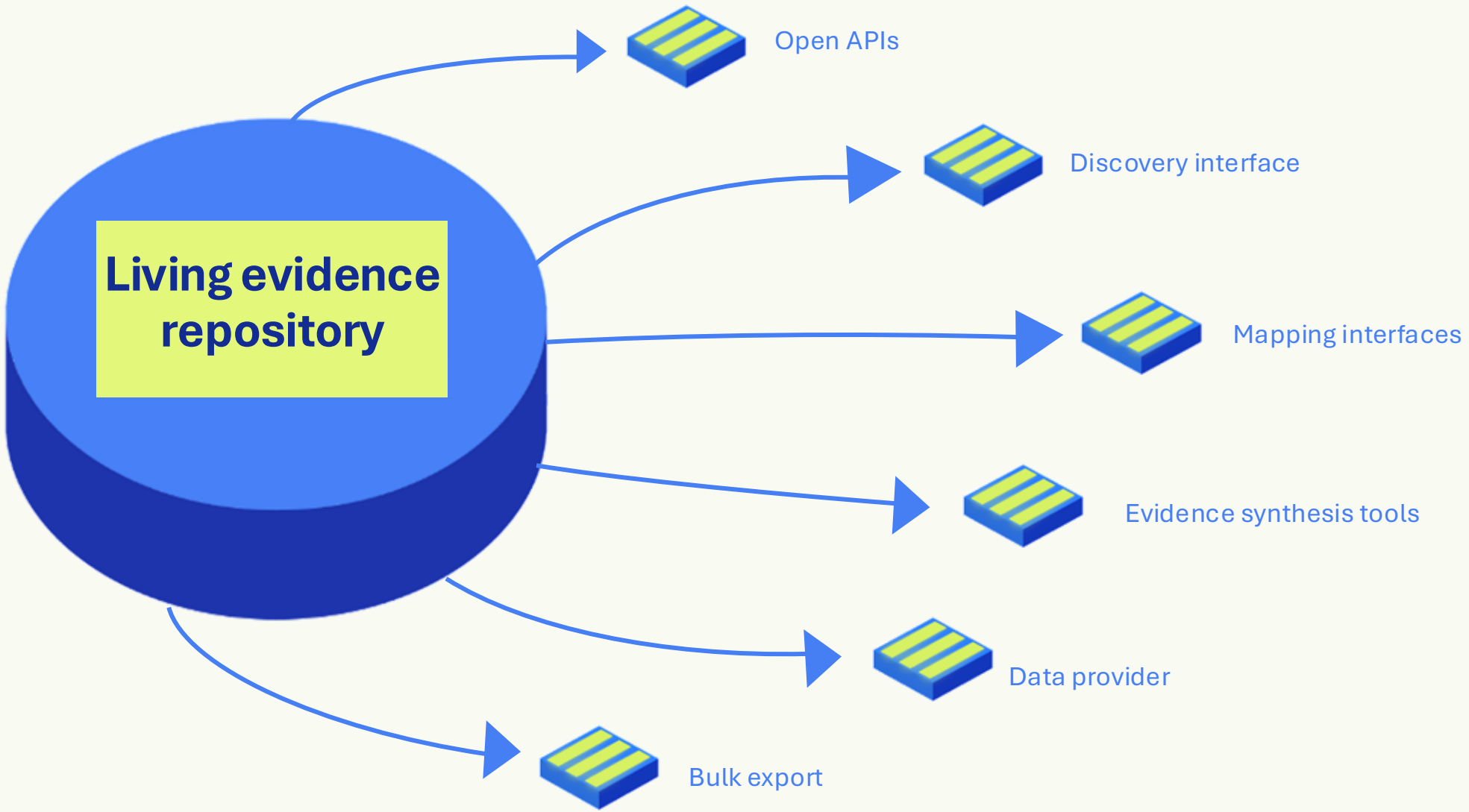
Evidence Data Sources



Evidence Data Sources



Evidence Products / Outputs



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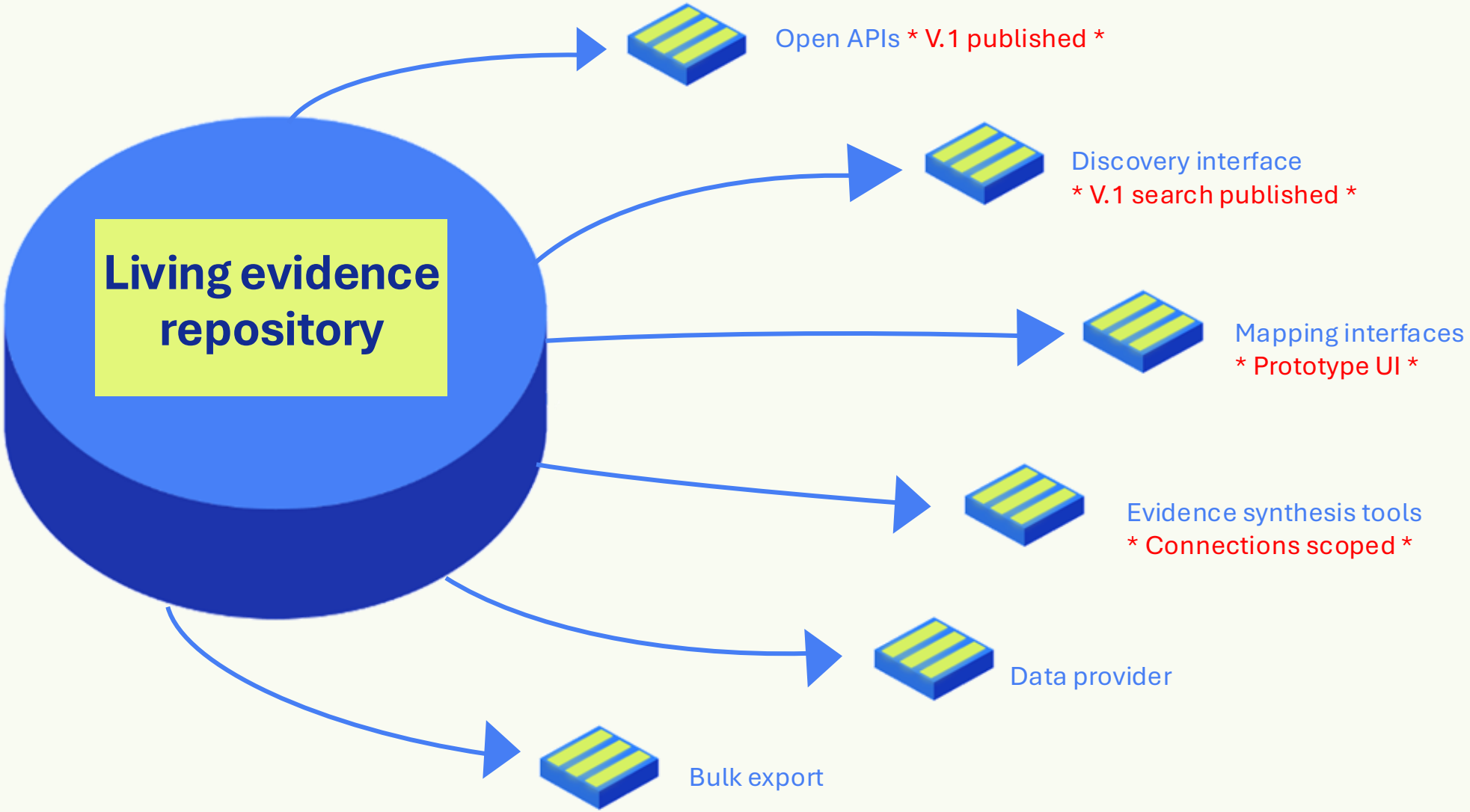
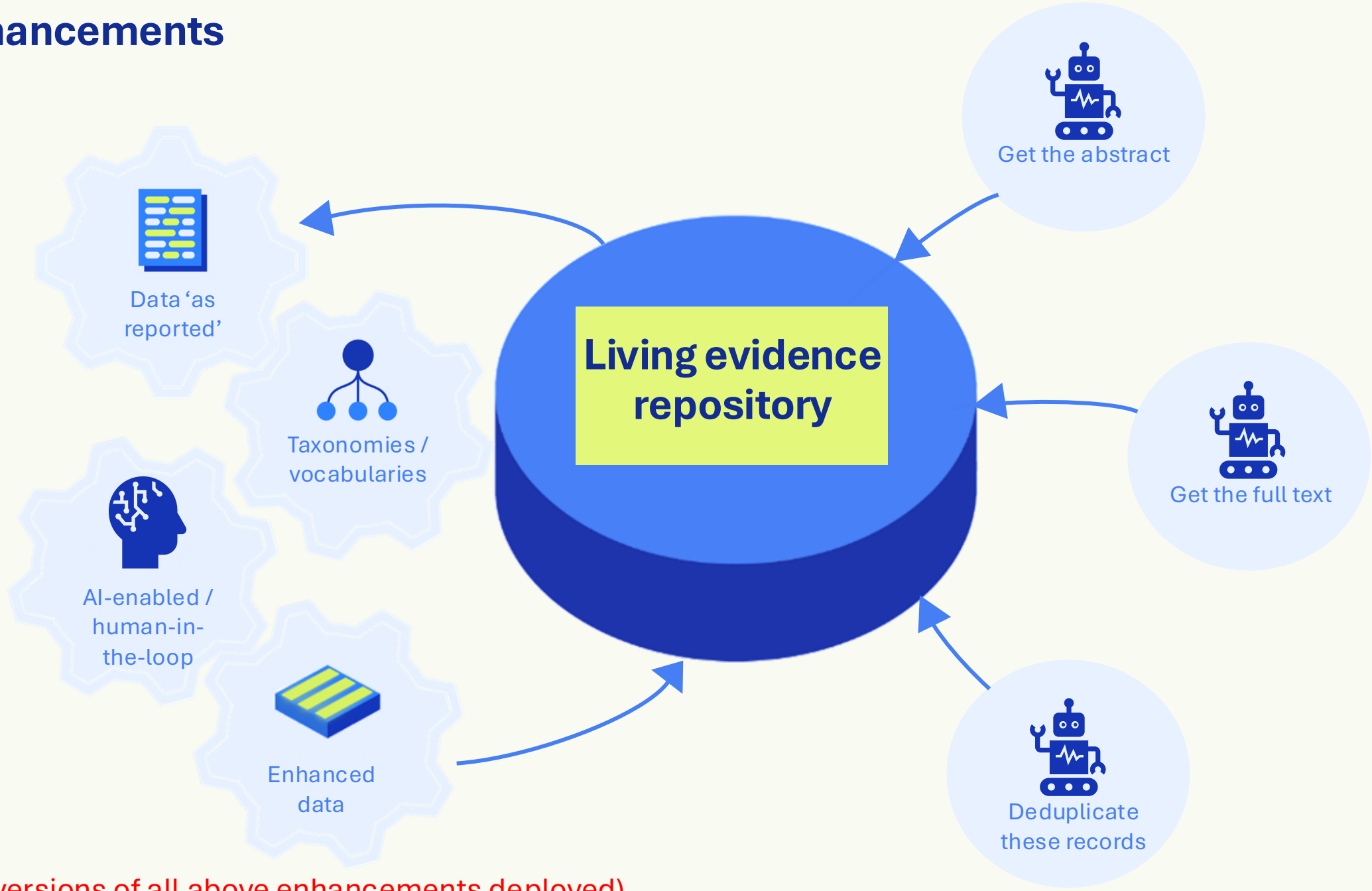


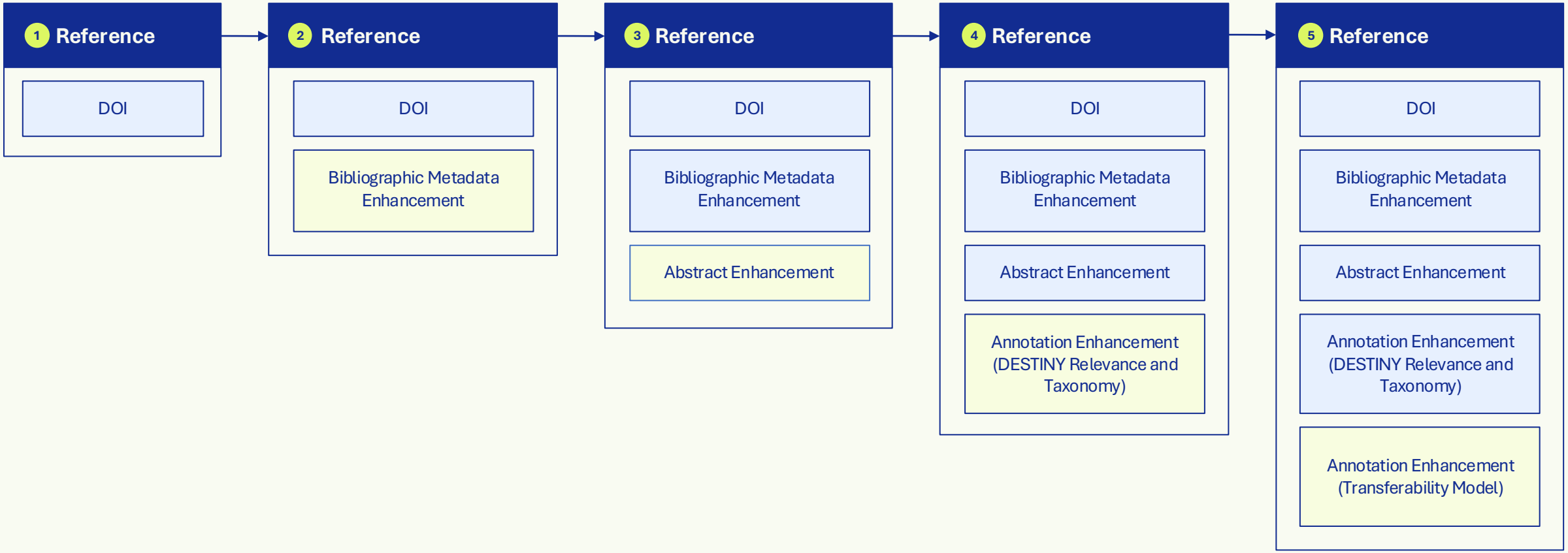
Enhancements



(Initial versions of all above enhancements deployed)

Enhancements in practice

DESTINY Example



e.g. We start with only a DOI (1). We use that DOI to get bibliographic metadata from OpenAlex (2), but they don't have an abstract for that record, so we go to another source for the abstract (3). Using the title and abstract we now have, we run a relevance classifier and if the record is relevant, we run a taxonomy classifier (4). On selected records we can then assess them for their transferability into various contexts (5).

DESTINY

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REPOSITORY OVERVIEWS

- Keyword Search
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- DESTINY Taxonomy

DEMO VISUALISATIONS

- Demo Page 1: Bar Chart
- Demo Page 2: Pie Chart
- Demo Page 3: Hierarchical Vi…
- Demo Page 4: Attribute Cros…

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Maximum Number of Items Displayed in Plots

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2 100

Maximum Length of Labels in Plots

Year histogram: threshold for 2025

0.80

0.01 0.99

Use logarithmic scale

Start the UI survey here!

DESTINY Example

DESTINY Dashboard

Whole database overview

Total Records	Total Enhancements	Most recent update
3,520,726	13,929,756	2025-10-26
↑ 209949		

Taxonomy

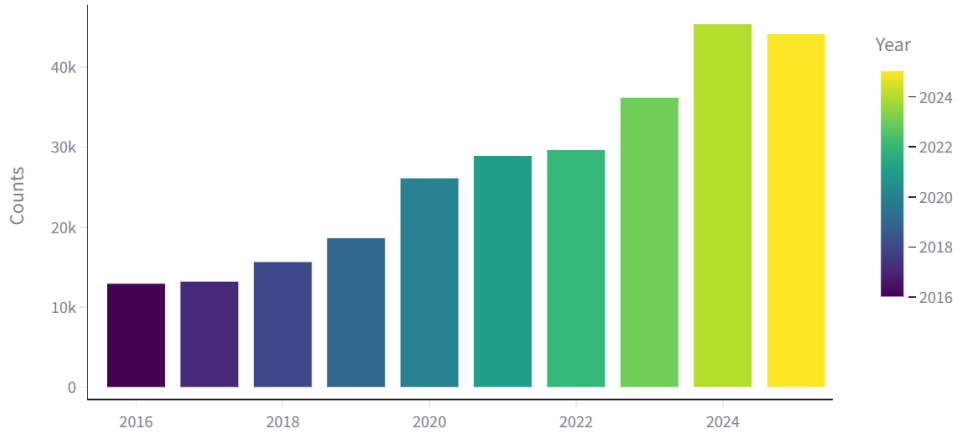
Choose Type

- ANTD
- ST_tree

- Intervention
  - Climate policy instruments
    - Mitigation policies
    - Adaptation policies
  - Means of implementation
- Context
  - Sectors
    - Mitigation sectors
    - Adaptation Sectors
  - Geography

Yearly Record Distribution

Records per Year (showing latest 10 years)



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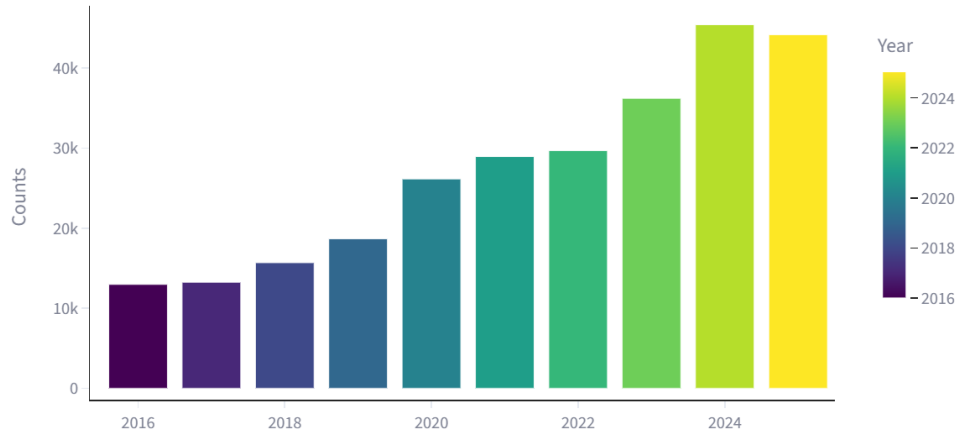

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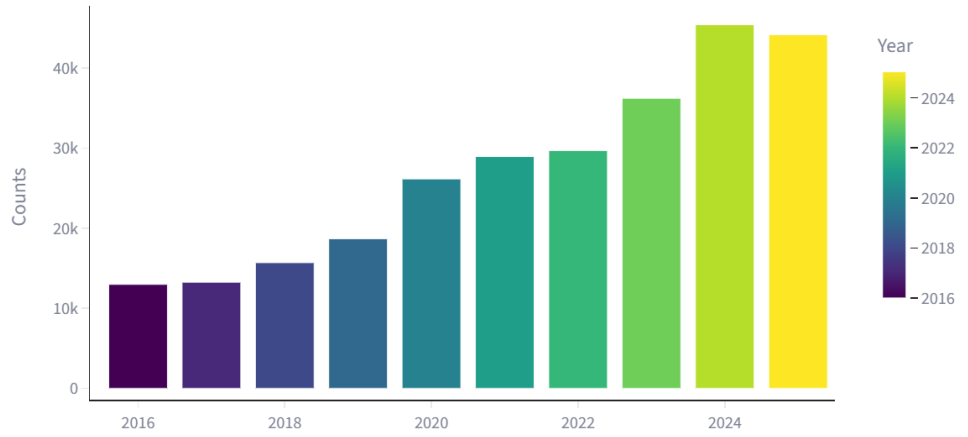

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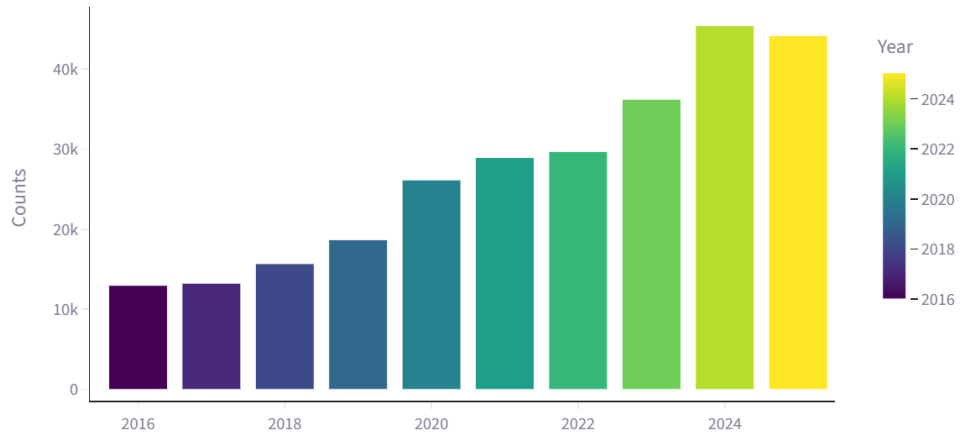

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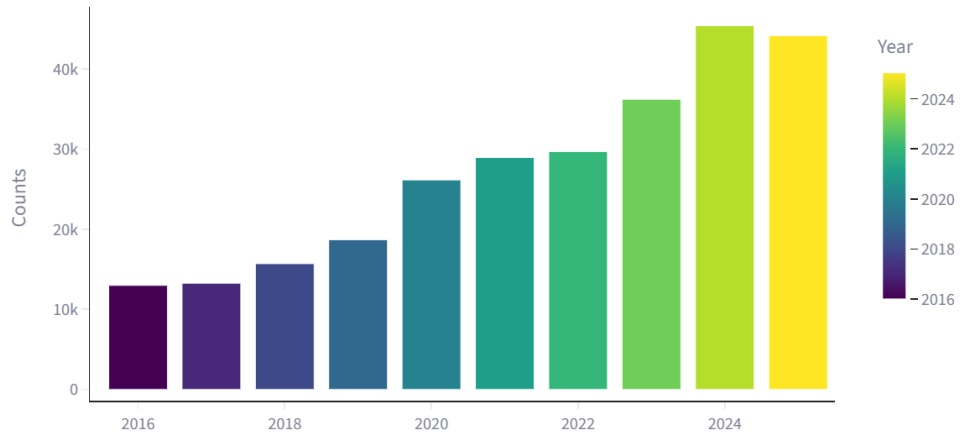

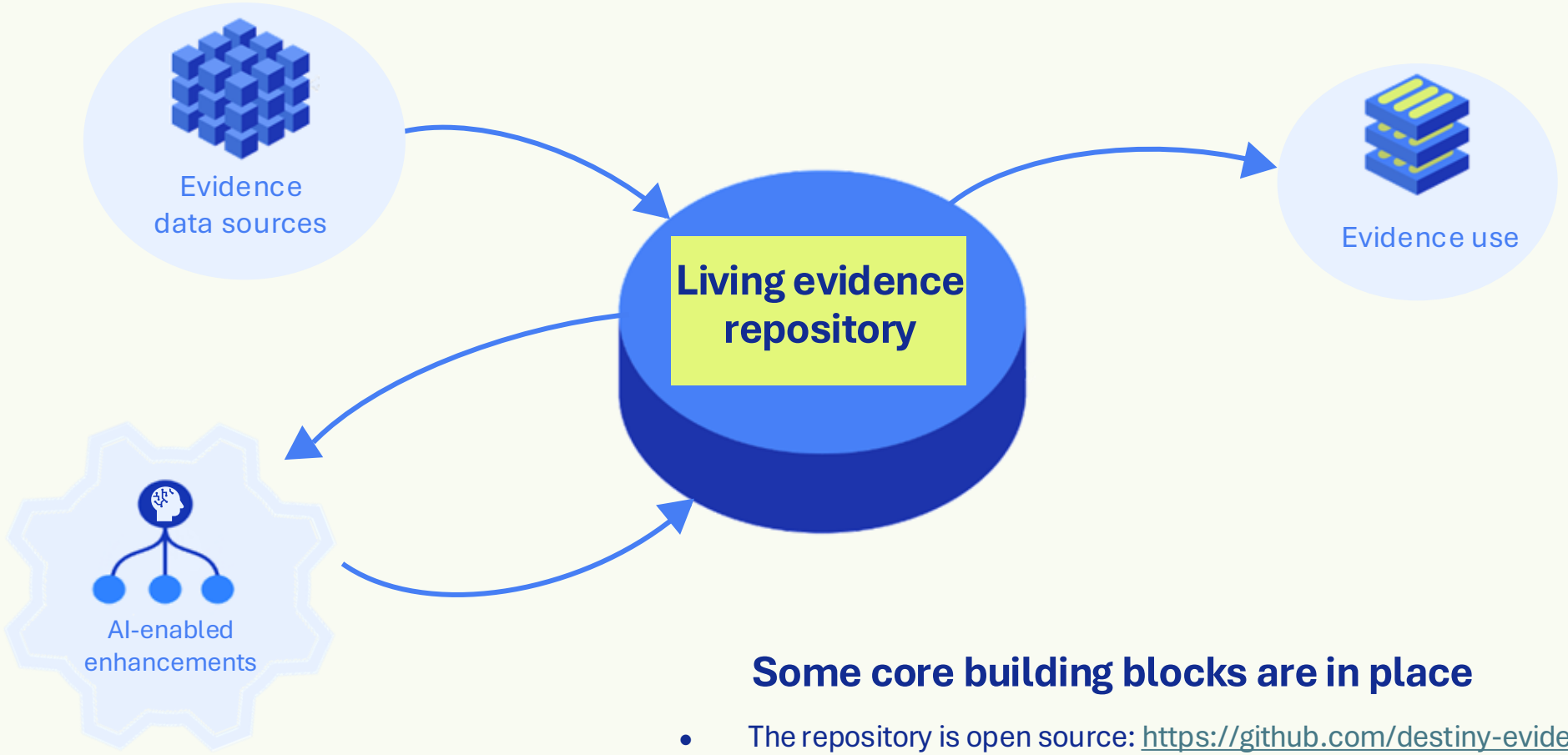

Some core building blocks are in place

- The repository is open source: https://github.com/destiny-evidence/destiny-repository
- The procedures are documented here: https://destiny-evidence.github.io/destiny-repository/
- The technical software development kit is documented here: https://destiny-evidence.github.io/destiny-repository/sdk/schemas.html
- There are already several groups working collaboratively across projects
- Semi-independent development and deployment of the AI-enabled enhancements (incl. ‘robots’) is supported by the architecture by design
- There’s lots still to do!
- **We’re excited about the potential for future collaborative development**