European Network of Cancer Registries

Building a federated oncology data network in the Netherlands (HERACLES)

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Clinical Data Scientist – IKNL

ENCR conference, November 13 2023, Granada

Data strategy

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Headlines / Society / European strategy for data: what MEPs want

European strategy for data: what Parliament wants

Society Updated: 16-03-2023 - 16:07
Created: 24-02-2021 - 15:42

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A European Strategy for data

The strategy for data focuses on putting people first in developing technology, and defending and promoting European values and rights in the digital world.

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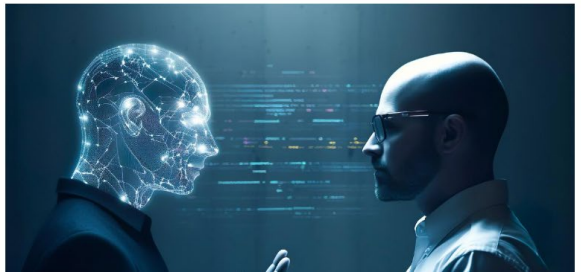
Headlines / Society / EU AI Act: first regulation on artificial intelligence

EU AI Act: first regulation on artificial intelligence

Society Updated: 14-06-2023 - 14:06
Created: 08-06-2023 - 11:40

The use of artificial intelligence in the EU will be regulated by the AI Act, the world's first comprehensive AI law. Find out how it will protect you.



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Shaping the digital transformation: EU strategy explained

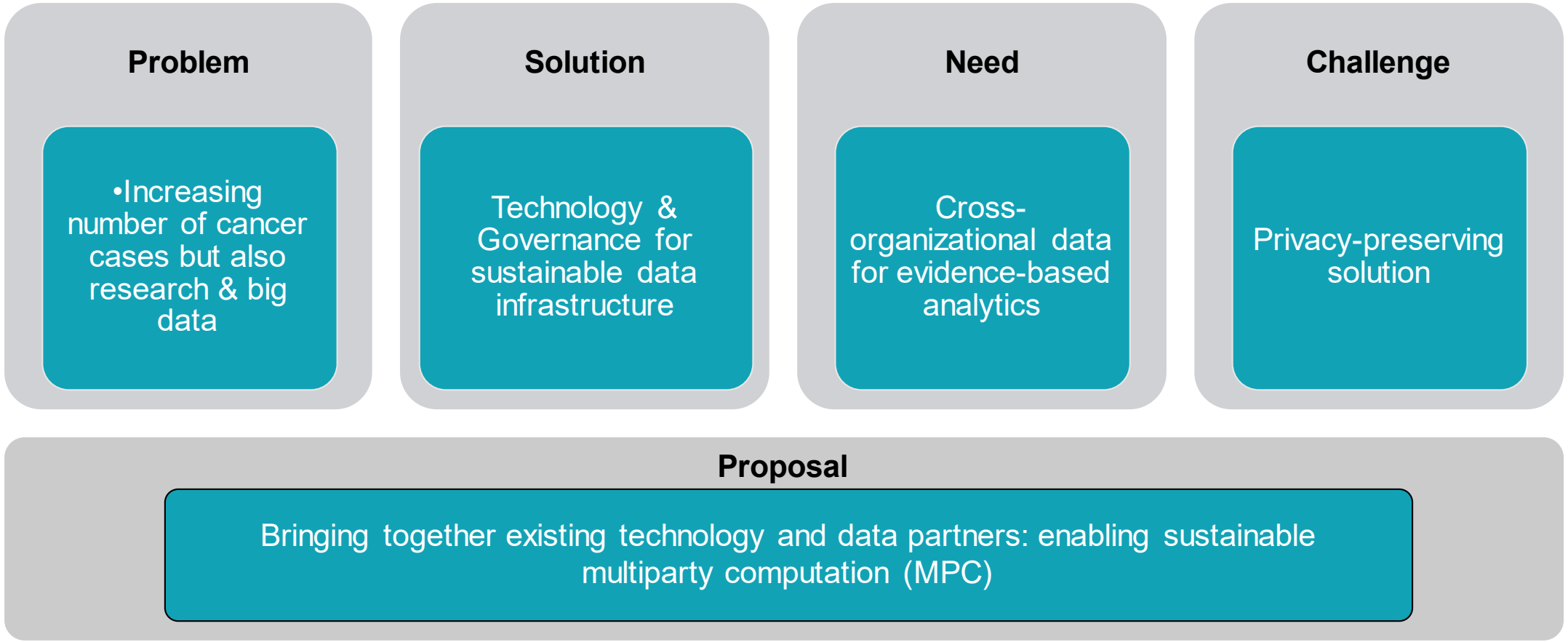
Society Updated: 19-10-2023 - 14:04
Created: 22-04-2021 - 09:24

European Network of Cancer Registries

Netherlands comprehensive cancer organisation

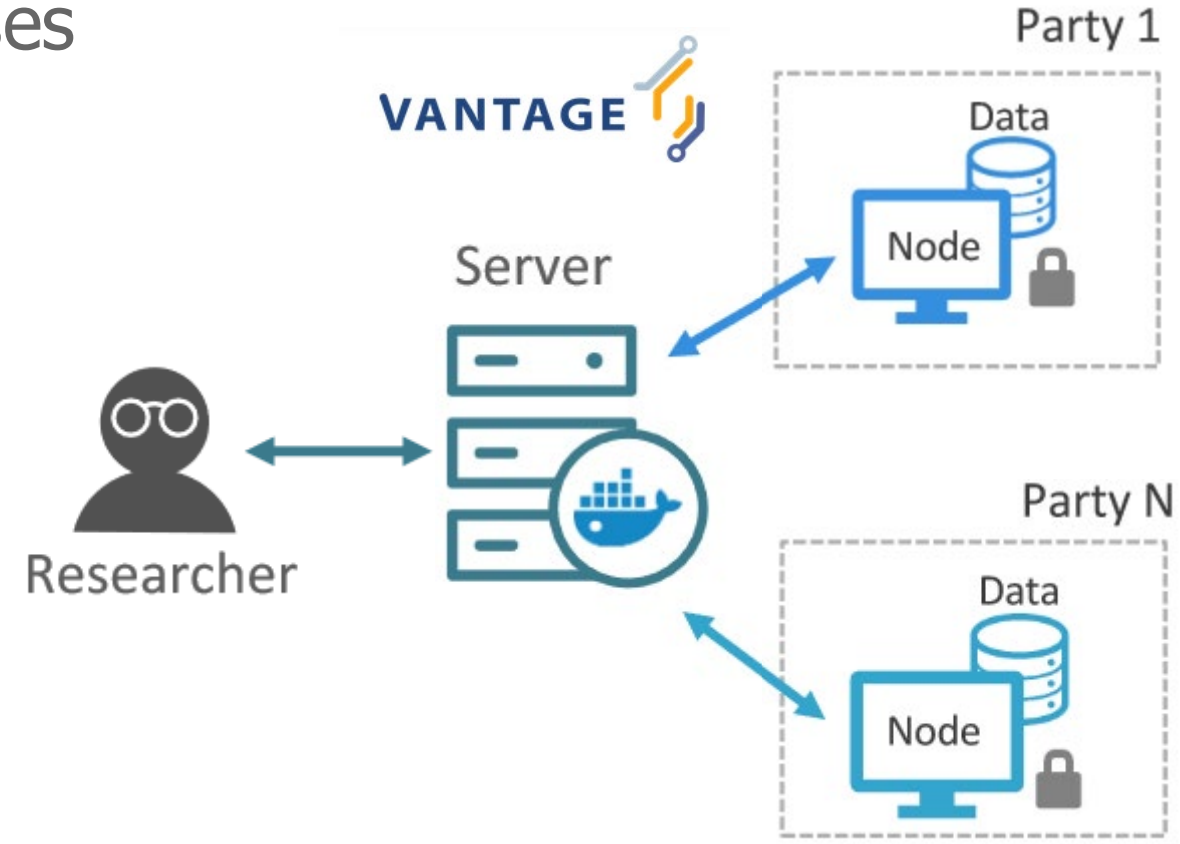
European Commission

Heracles overview



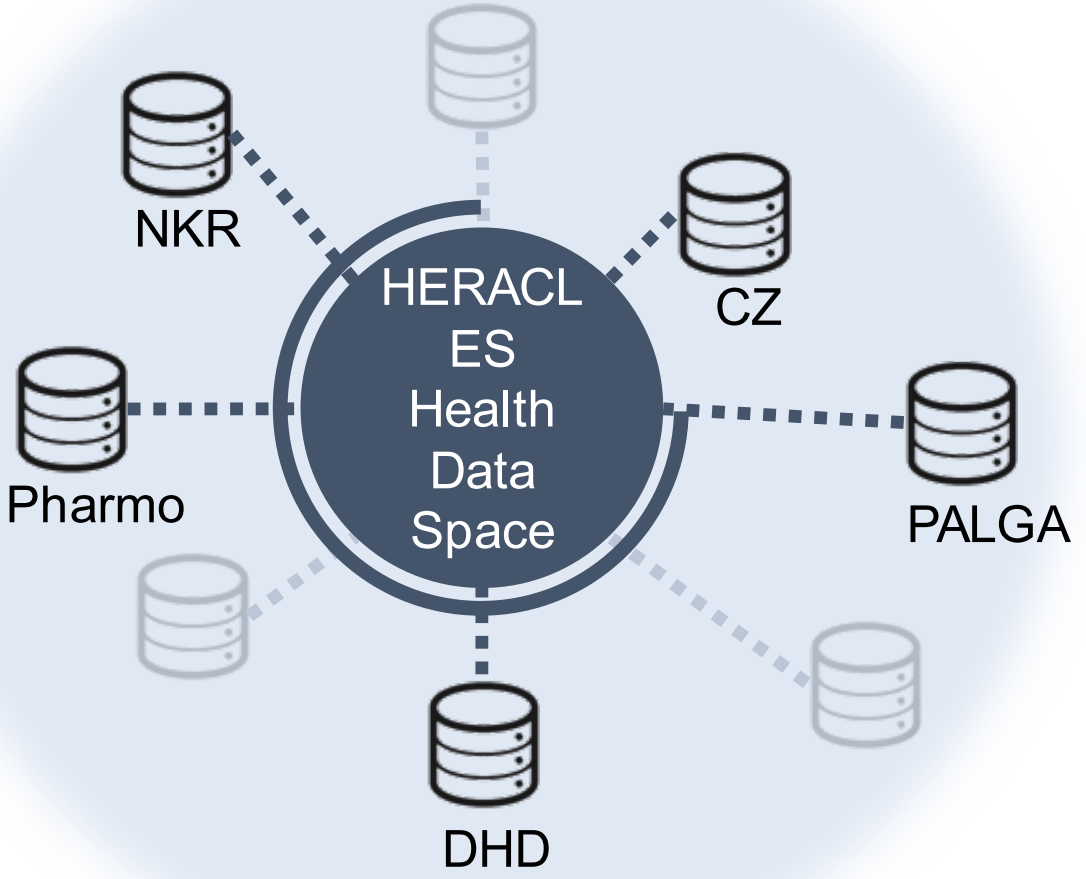
What is multiparty computation (MPC)

- Decentralized statistical analyses

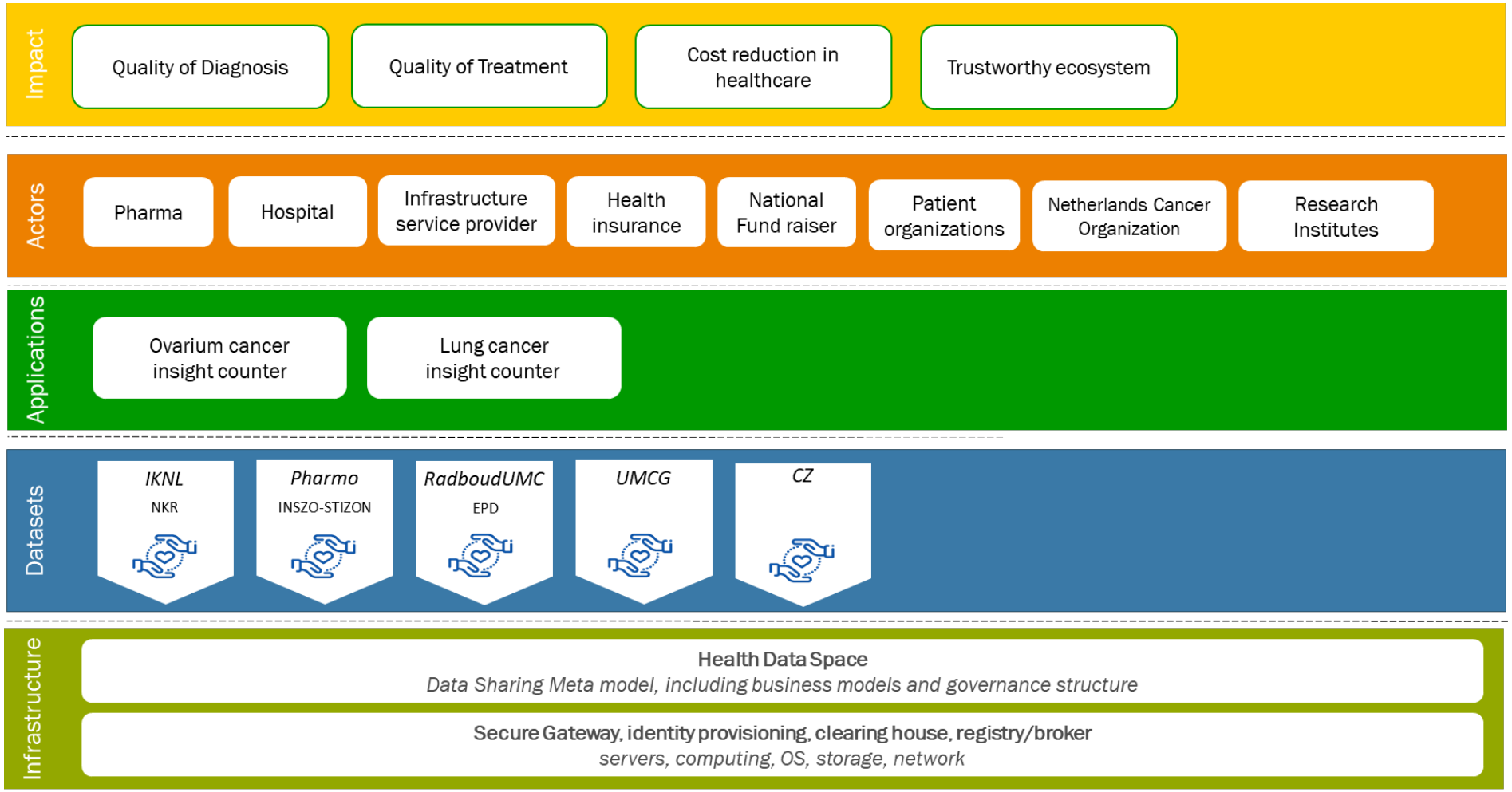


Heracles' vision

- A data space of multiple technology and data partners that accelerates cancer insights & fundamental research



Heracles' value chain



Two use cases at the center

- Early detection of lung cancer
  - Lung cancer usually detected at a late stage
  - Identify people at higher risk earlier than diagnosis/referral
  - Bring data together from various sources (GP, pharmacological, etc)
  - Provide an algorithm to GPs

- Ovarian cancer recurrence
  - ~70% - 80% of recurrence
  - Treatment/maintenance variations & build a predictive model of recurrence
  - Bring data together from various sources (pharmacological, therapy, etc)
  - Provide a prognostic algorithm to patients & clinicians

Heracles' progress status

- Data prepared: use case protocols/data dictionaries
- Combined data at the source: comparison baseline
- Test case of MPC in preparation: synthetic data

Where to read more:

‹ Projects overview

Summary

To create new insights in peoples' health journeys by combining real world data from different organisations and sources. And a unified approach that can utilise the power of artificial intelligence for improving diagnostic, optimise care processes, improve interaction within the value chain of health.

Technology Readiness Level (TRL)

4 - 6

A privacy preserving ecosystem for cancer research

HEalth ReseArch - Cancer Living labs - setting up an Ecosystem of trust (Secure and Sovereign)

The HERACLES project aims to reduce the cancer impact by creating a sustainable data learning system. This innovative infrastructure (rapid learning) for combining multiple fragmented data sources, is crucial to enrich and complete the insights in the health journey of people at risk for or suffering from cancer. This will benefit the growing population with an often high and long-term disease burden and give them a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