LNDS

Data & AI innovation in the public sector

Luxembourg National Data Service (LNDS)

Bert Verdonck

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CEO, Luxembourg National Data Service

1993 MSc Engineering, KULeuven, Belgium

1996 PhD Medical image processing, ENST Paris, France

1996-2022 Healthcare informatics, Philips, Netherlands

Since 2020 Gaia-X

Since 2022 Data Space Support Centre

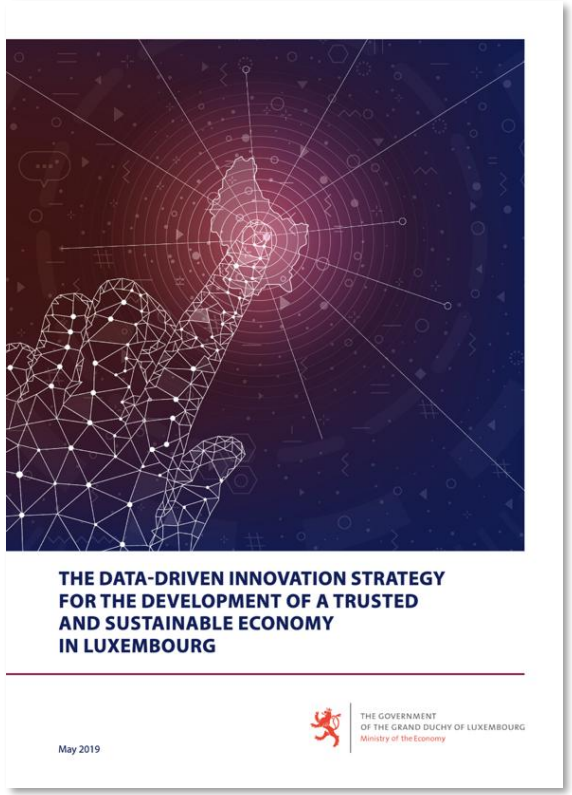
Since 2022 Luxembourg National Data Service

Since 2023 Gaia-X and ELIXIR board member

Background for the creation of LNDS:

Data reuse is a key enabler for innovation in Luxembourg

2019 – Ministry of the Economy



2020 – Ministry of Research and Higher Education

2023 – Ministry of Digitalisation

4 strategic axes for successfully achieving a digital government

- Developing eGovernment
- Advancing administrative simplification
- Promoting digital inclusion
- Ensuring data governance

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Overview of the evolving legislative scenery

LNDS actively follows & participates in development of new regulations

General Data Protection Regulation

Open Data Directive

NIS2 Directive

Implementing Regulation on High Value Datasets

EU Data Strategy

Data Governance Act

Common European Data Spaces

European Health Data Spaces

Data Act

AI Act

Digital Services Act

Digital Markets Act

Current legislative focus

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Luxembourg National Data Service (LNDS)

Plateforme Nationale d'Échange des Données (PNED G.I.E)

- **Legal form:**
  - Economic Interest Group (Groupement d'Intérêt Économique (GIE))
- **Current board members:**
  - Ministry of Research & Higher Education: Romain Martin
  - Ministry of Digitalisation: Gaston Schmit
  - Ministry of Economy: Mario Grotz
  - Ministry of Finance: Tom Theobald
  - Ministry of Social Security: Thomas Dominique
  - Ministry of State: Max Gindt
  - Luxembourg Institute of Health (LIH): Ulf Nehrbass
  - Luxembourg Institute of Socio-Economic Research (LISER): Aline Muller

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The LNDS teams

The diverse team of experts enabling the activities of LNDS

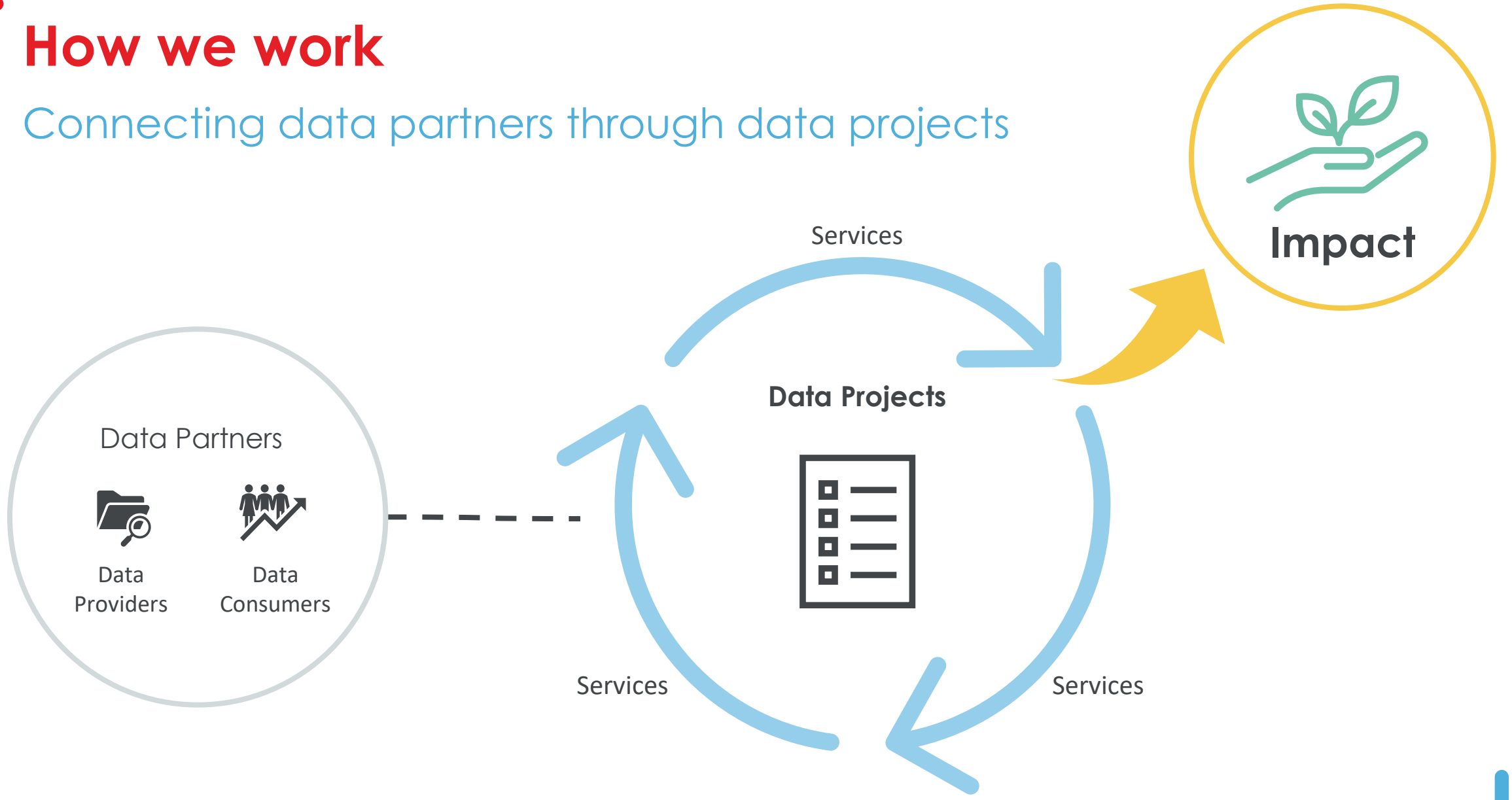
Technology

Service

Enabling functions

How we work

Connecting data partners through data projects



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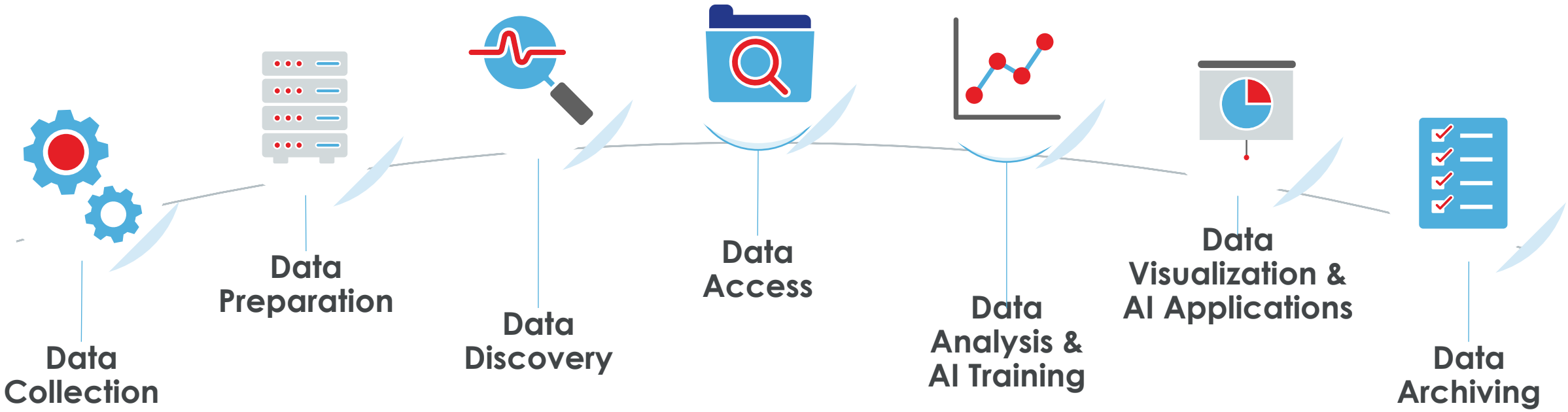
How we work throughout the data journey

Capacities, tools, processes & knowledge sharing



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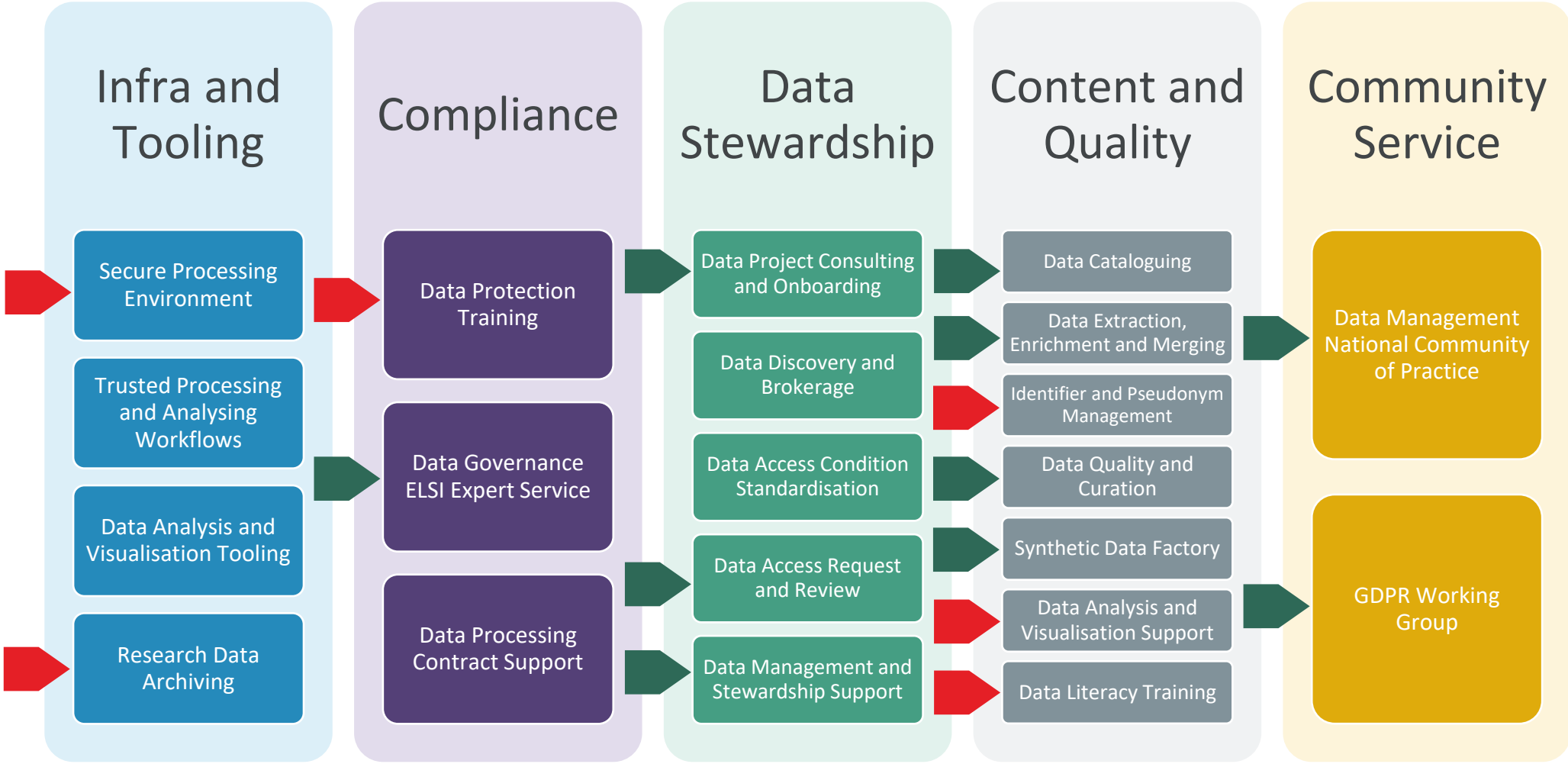
Our service portfolio

Released in 2023

Priority of 2024

Design and build a service portfolio to deliver value



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Involvement on European level

Making an impact on the international level

can.heal

HEALTHYCLOUD
Health Research & Innovation Cloud

epnd European Platform for Neurodegenerative Diseases

B1MG Beyond one Million Genomes

European Genomic Data Infrastructure

elixir LUXEMBOURG

HDAB LU
Health Data Access Body

elixir STEERS

eosc | ENTRUST
European Network of Trusted Research Environments

How ‘I’ is AI without Data?

There is no AI without data

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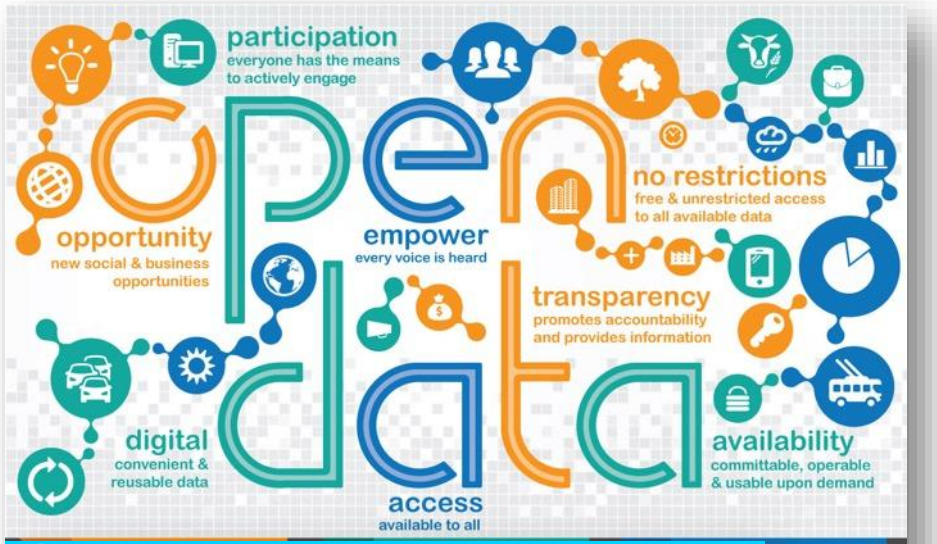
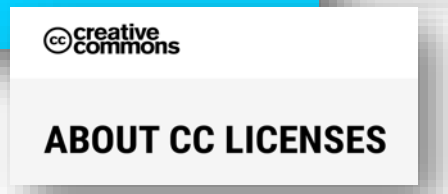
How ‘I’ is AI without Data?

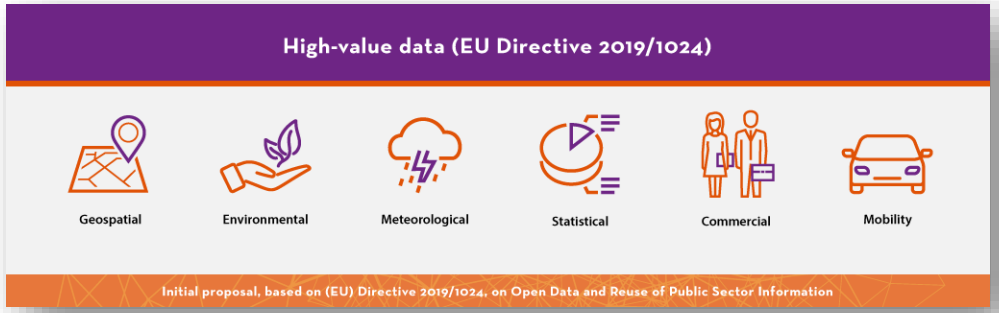
It’s about new oil and new engines…

Open, free, paid, restricted, downloadable, visitable…

Data availability comes in many nuances







Data visiting is the new data sharing.

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Data for AI … AI for Data …

AI is subject and object

- End-to-end data journey to feed Data for AI
- AI tooling to optimise the data journey
  - Discovery: automated meta-data creation/maintenance
  - Analysis: automated exploration using bots
  - Visualisation: automated summary/presentation

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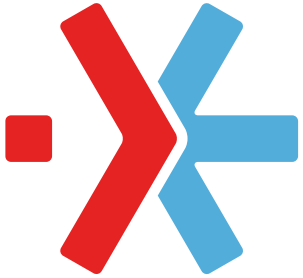

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