CONTENT

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Generative AI Journey

2022

The year generative AI exploded into market

2023

The year generative AI began its root in the business

2024

Defining year for generative AI

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Generative AI Journey

56%
Improve efficiency and productivity

29%
Encourage innovation and growth

35%
Reduce costs

27%
Shift workers from lower-to higher-value tasks

29%
Improve existing products and services

19%
Uncover new ideas and insights

2023-2024
Seeking value

79% of respondents expect generative AI to transform their organisations within three years. But in practice, they are most focused on gaining practical benefits today.

2024-2025
Looking to transform

Given their focus on efficiency, how will business leaders achieve more innovative and transformative outcomes?

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" **The winners of AI will be those who know how to use AI and have private data.**
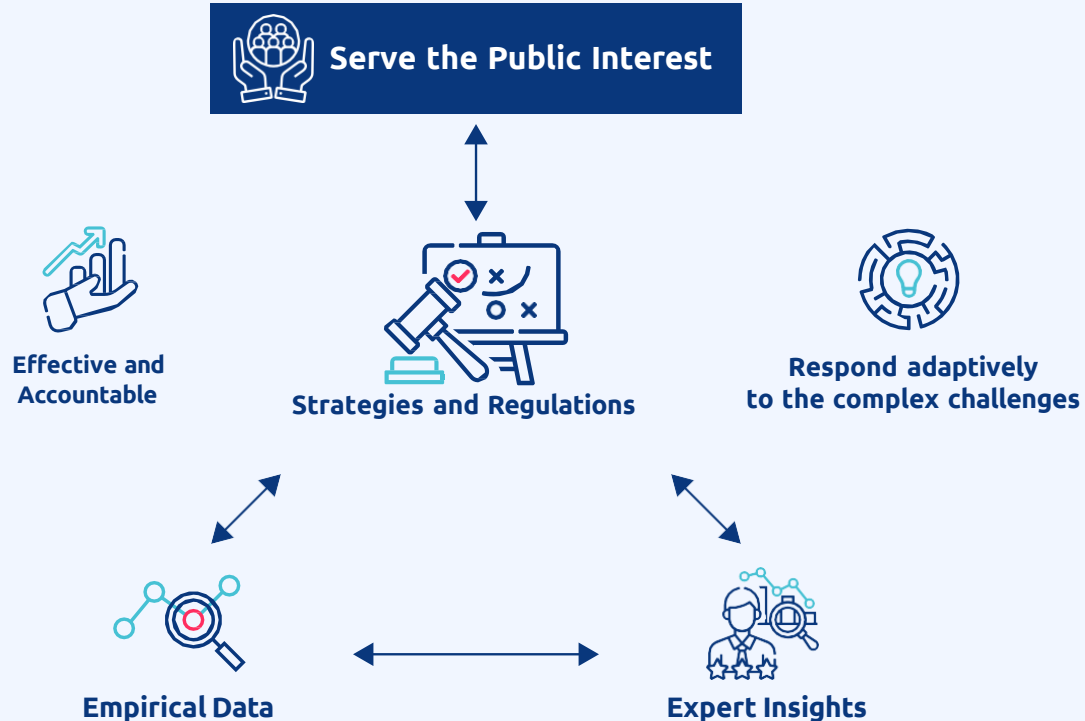
Cathie Wood

Trusted Data & AI + Human = AI Winners

Public Sector Ambitions

Public Sector Organisations depend on knowledge as a resource for
evidence-based policy & decision-making

Serve the Public Interest

Effective and Accountable

Strategies and Regulations

Respond adaptively to the complex challenges

Empirical Data

Expert Insights

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The Challenges in Public Sector

Data silos & complexity
Ethical & Privacy
Legacy technologies

It's getting harder

Volume too great
Too busy
Changing workplace demographics

It's no longer manageable by "domain experts"

Digital archaeology, digging back through time. Hundreds of hours spent by scientists in finding information.
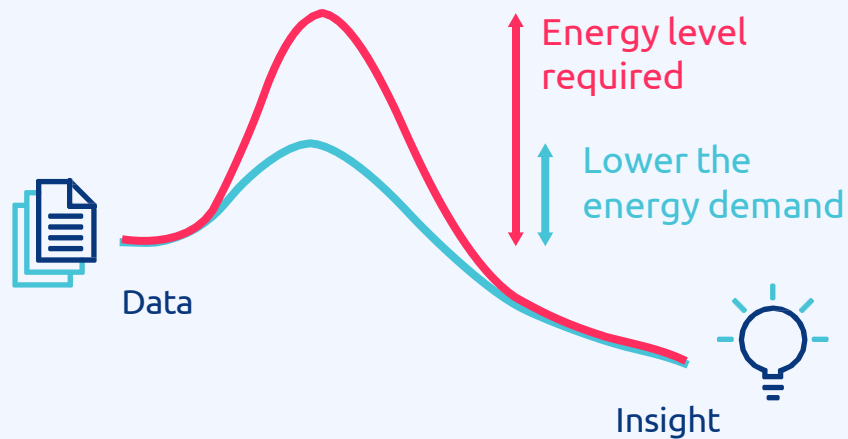
Poor decision making due to lack of knowledge, or insight from the past research.

No time to drive innovation leading to missed opportunities.

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The solutions to Public Sector challenges

Energy level required

Lower the energy demand

Data

Insight

✓ Digital archaeology

✓ Better Decision Making

✓ Drive Innovation

Knowledge Discovery → **Innovation**

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Catalysing Changes

Simplify data access across organisation

Accelerate data driven decision making

Scale cutting-edge innovation

4 Shifts

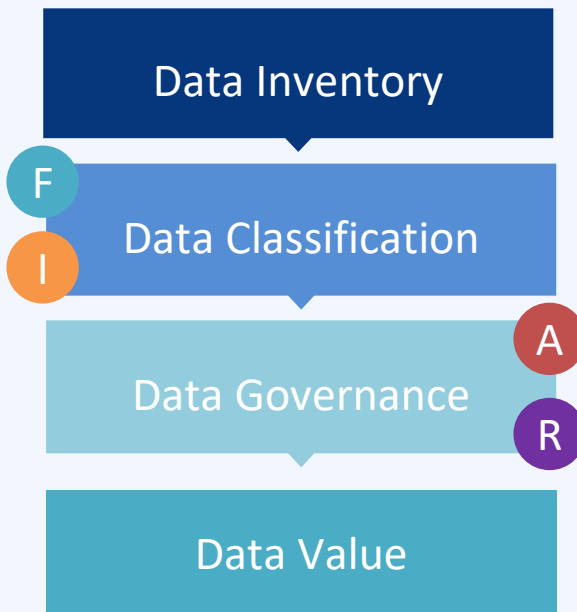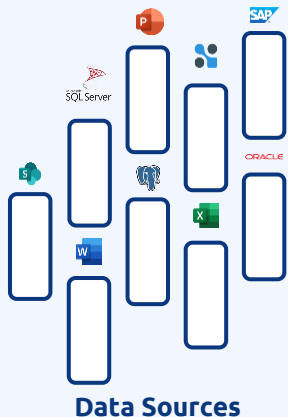|			
Leaner, Faster, and More Agile Operation	**Enable change across the organisation for In Time Insight**	**Invest in Next-Gen Technology Innovation**	**Harmonise Tools and Standards**

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The Strategy

FAIR

FINDABLE | ACCESSIBLE | INTEROPERABLE | REUSABLE

Data Sources

Data Inventory

F | I
Data Classification

A | R
Data Governance

Data Value

Culture + Infrastructure = Variety

Findability + Interoperability = Volume

Metadata, Provenance,
Consent & Policies = Veracity

Core to a **unified data strategy** is the **elimination** of **data silos**, data **redundancies** and other bottlenecks which hamper the **desired data flow** within the organisation

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A Framework

Unified Data Layer Framework

CONNECT

- Any Data/ Content
- Any Application
- Any Architecture
- Any Workflow

CREATE

- Knowledge Graph Modelling
- Fact Extraction
- Classification & Harmonisation
- Enriched Data Resources

CONSUME

- Cognitive Search, AI Expert Agent interaction
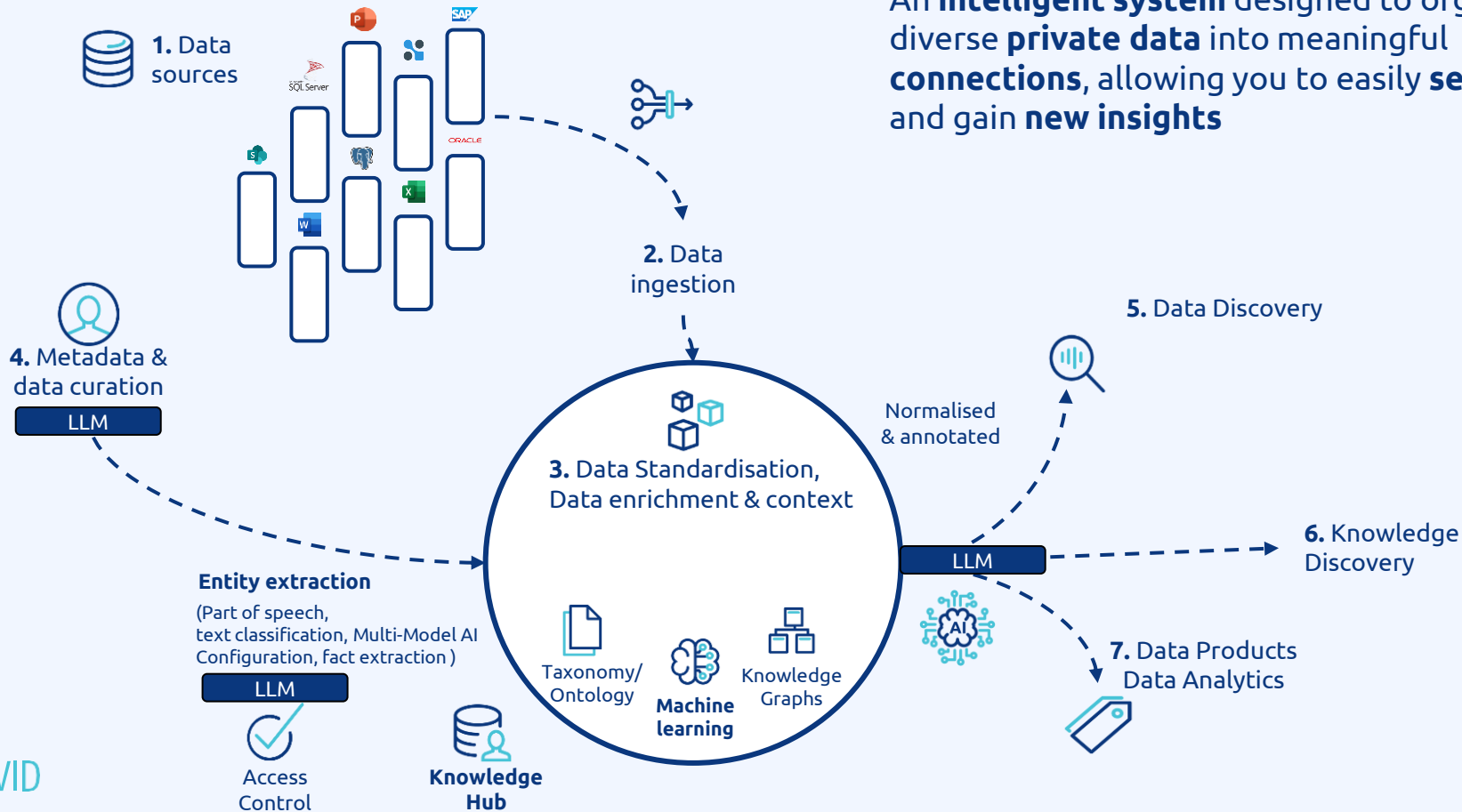- Specialized UI – Puzzles & Quizzes
- Analytics & Visualization
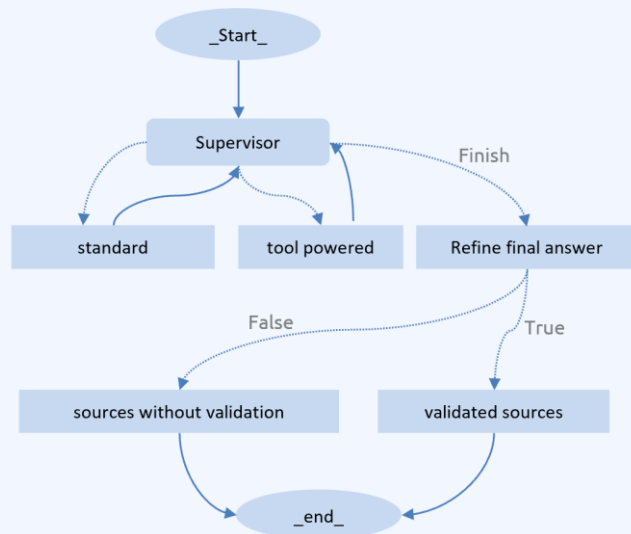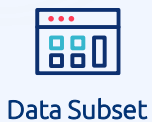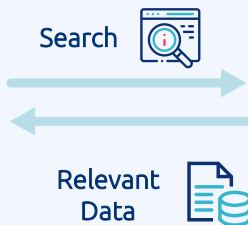- Fact-Based Intelligence, Semantics

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Unified Data Layer Blueprint

An **intelligent system** designed to organise diverse **private data** into meaningful **connections**, allowing you to easily **search** and gain **new insights**

1. Data sources

2. Data ingestion

4. Metadata & data curation

LLM

Entity extraction

(Part of speech, text classification, Multi-Model AI Configuration, fact extraction)

LLM

Access Control

Knowledge Hub

3. Data Standardisation, Data enrichment & context

Taxonomy/ Ontology

Machine learning

Knowledge Graphs

Normalised & annotated

5. Data Discovery

LLM

6. Knowledge Discovery

7. Data Products Data Analytics

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Multi-agent LLM Architecture

User Queries

Orchestration

Search

Knowledge Hub

Relevant Data

Data Subset

LLM

Informed Answer

Start

Supervisor

Finish

standard

tool powered

Refine final answer

False

True

sources without validation

validated sources

end

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Police & Law Enforcement Information Management System

Social Media Feed

Proactive identification of threat, harm, opportunity and risk

Faster, more informed decision-making, and better outcomes

Ensure safety of at-risk individuals in a secure/timely manner

Improve the security of, and access to, sensitive information

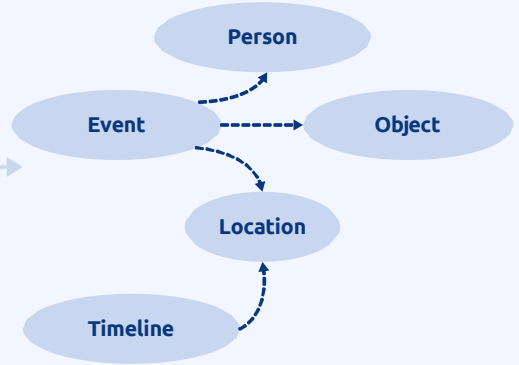Single point of truth across dispersed and disparate systems

1

Data Hub
Semantically tagged private data

2

Knowledge Graphs
Knowledge Capture

Person

Event

Object

Location

Timeline

1. Ingest content

2. Automatically Extract Person / Object / Location/Event (POLE) Extract Other Entities of Interest

ANPR/BWV/CCTV
Registers
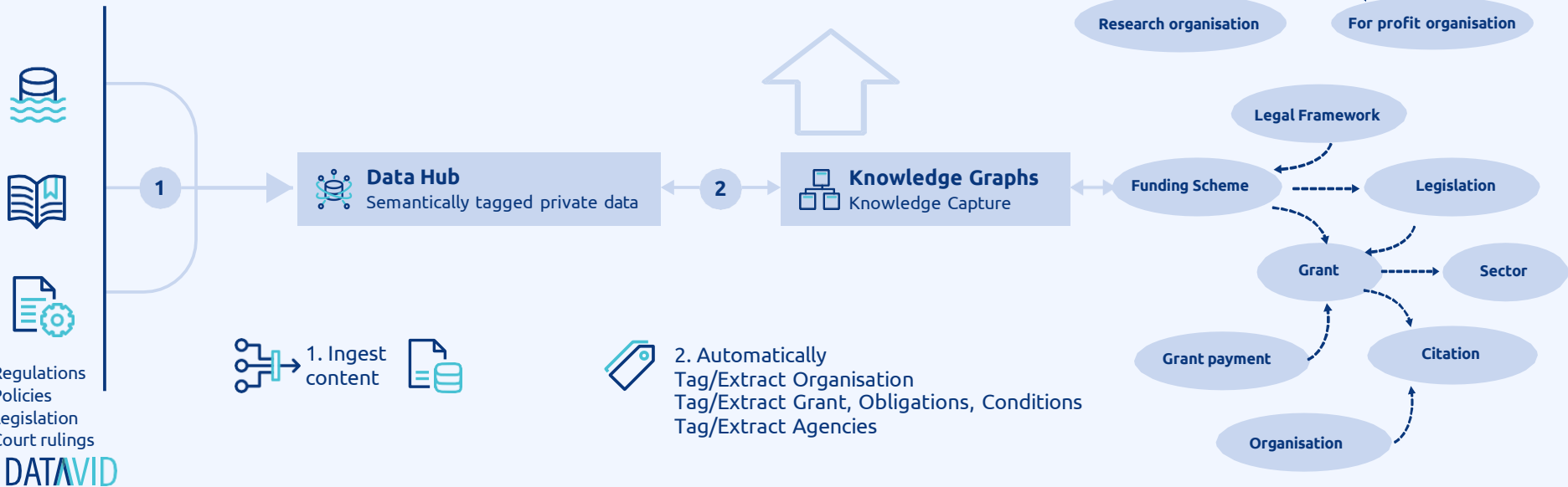Geo Spatial Data

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Public sector research and innovation

Promoting **collaboration**, centralising information, and ensuring rapid and effective **dissemination of crucial public information**

The hub **democratises access to funding opportunities**, empowering a wider range of organisations and individuals
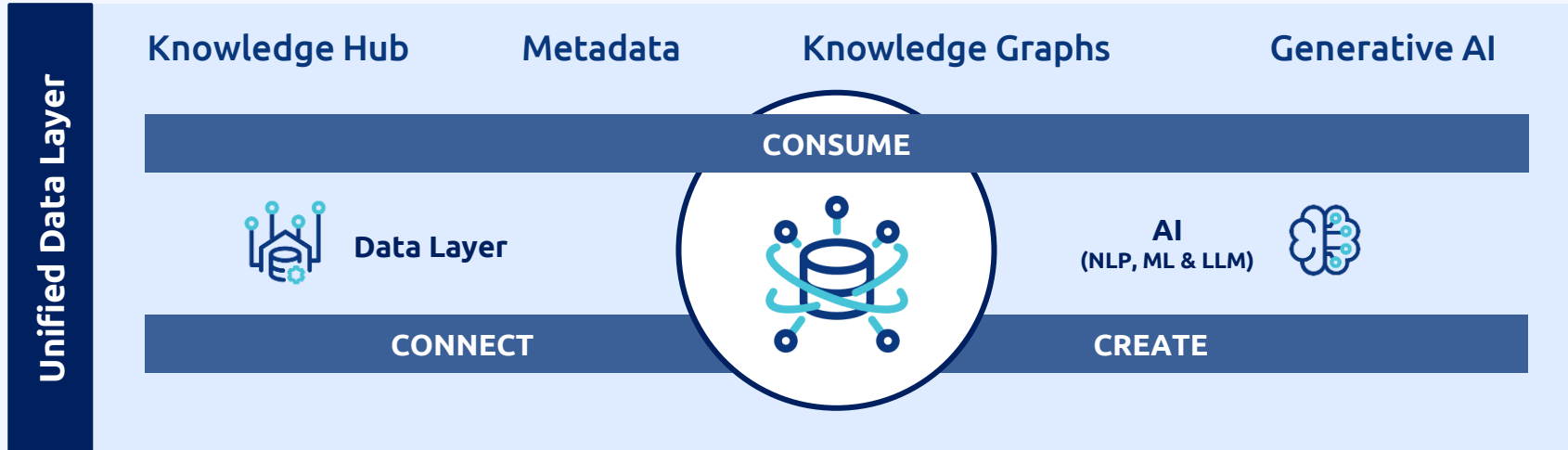
Organisation

Public body

Funding Agency

Research organisation

For profit organisation

Regulations
Policies
Legislation
Court rulings

1

Data Hub
Semantically tagged private data

2

Knowledge Graphs
Knowledge Capture

Legal Framework

Funding Scheme

Legislation

Grant

Sector

1. Ingest content

2. Automatically
Tag/Extract Organisation
Tag/Extract Grant, Obligations, Conditions
Tag/Extract Agencies

Grant payment

Citation

Organisation

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Outcome Driven Delivery

Outcomes Trusted AI | Smarter Decisions | Customer Experience | Innovation

Data Advantages Context | Quality | Unity | Security | Governance

Unified Data Layer

Knowledge Hub   Metadata   Knowledge Graphs   Generative AI

CONSUME

Data Layer

AI
(NLP, ML & LLM)

CONNECT   **CREATE**

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