
INTRODUCCIÓN A ESPACIOS DE DATOS

Ángel Luis Rubio García

Seminario de Informática “Mirian Andrés”

30 de junio de 2025

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**GERRYMCGOVERN.COM/
DATA CENTERS CONTAIN 90% CRAP DATA**



GERRYMCGOVERN.COM/ DATA CENTERS CONTAIN 90% CRAP DATA



«Senior management is full to overflowing with Big Tech groupies chanting about the latest tech miracle that's going to magically transform and supercharge their careers. Having to deal with senior managers has always been the most unsavory part of my job, because when it comes to technology, these managers exist on a whole other level of stupid vanity and narcissistic pursuit of their own selfish agendas. »

GERRYMCGOVERN.COM/ DATA CENTERS CONTAIN 90% CRAP DATA



«La alta dirección está llena a rebosar de fanáticos de las Grandes Tecnológicas alabando el último milagro tecnológico que va a transformar y modernizar de forma mágica sus carreras. Tener que tratar con altos directivos siempre ha sido la parte más desagradable de mi trabajo, porque cuando se trata de tecnología, estos directivos están en otro nivel de estúpida vanidad y búsqueda narcisista de sus propias agendas egoístas.»

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Buzzword

A word or phrase which has become fashionable or popular, or sounds technical or important and is used to impress people.

CONTRATACIÓN PÚBLICA

> Licitaciones

- > Consulta expedientes
- > Presentación de ofertas
- > Planes anuales de contratación
- > Entidades y sus Mesas de contratación
- > Protección de Datos Personales

> Registro de Licitadores (ROLECE)

> Consultas

> Normativa y documentos

[Inicio](#) / [Contratación Pública](#) / [Licitaciones](#)



Consulta expedientes

Expediente nº.71-7-2.01-0004/2025 - Pendiente de adjudicación

ID de publicación en TED	c6fd9fab-3dc1-4eac-9e8e-eeefe483cc62f							
Consejería u Organismo	Fundación para la Transformación de La Rioja							
Nº. Expediente	71-7-2.01-0004/2025 (Procedimiento abierto con varios criterios de adjudicación)							
	▶ Presentación de ofertas							
Descripción	Contratación de servicios y suministros para el desarrollo del espacio de datos de la Nueva Economía de la Lengua y de la incubadora de proyectos emergentes en Inteligencia Artificial (IA) y Tecnologías del Lenguaje en Español y servicio de asistencia técnica <i>(por lotes)</i>							
	Plan de Recuperación Transformación y Resiliencia España Puede (PRTR). - Componente 12. Inversión 1 (C12.I1) - Componente 13. Inversión 1 (C13.I1)							
CPV	30211100-2, 48820000-2, 71356200-0, 72000000-5, 72200000-7, 72212460-1, 72220000-3, 72222000-7, 72224000-1, 72224100-2, 72263000-6							
Plazo ejecución	12 meses		Fecha inicio ejecución					
Pub. Boletines	☒ DOUE							
P. Contrata (con IVA)	14.583.525,00 €		Fecha Fin Plazo	27-05-2025 23:59	Fecha Apertura Sobre "A"	29-05-2025 14:00	Fecha Apertura Sobre "C"	02-06-2025 10:00
Valor estimado	14.414.868,02 €							
Enlaces	▶ Obtener Pliegos y otros documentos y Suscribirse a este expediente							



“

Data is the **new oil**.

Clive Humby
(2006)

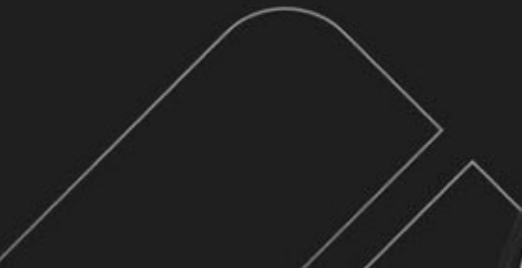


www.humbyanddunn.com

“

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Clive Humby
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Data is the new oil? No: Data is the
new soil.

— *David McCandless* —
(2012)

davidmccandless.com

informationisbeautiful.net

LOS DATOS SON (EL NUEVO) OBJETO DE DESEO

- Big data
- Analítica
- Ciencia de datos
- Entrenamiento de modelos
- ...



Un tranvía llamado deseo (1951)

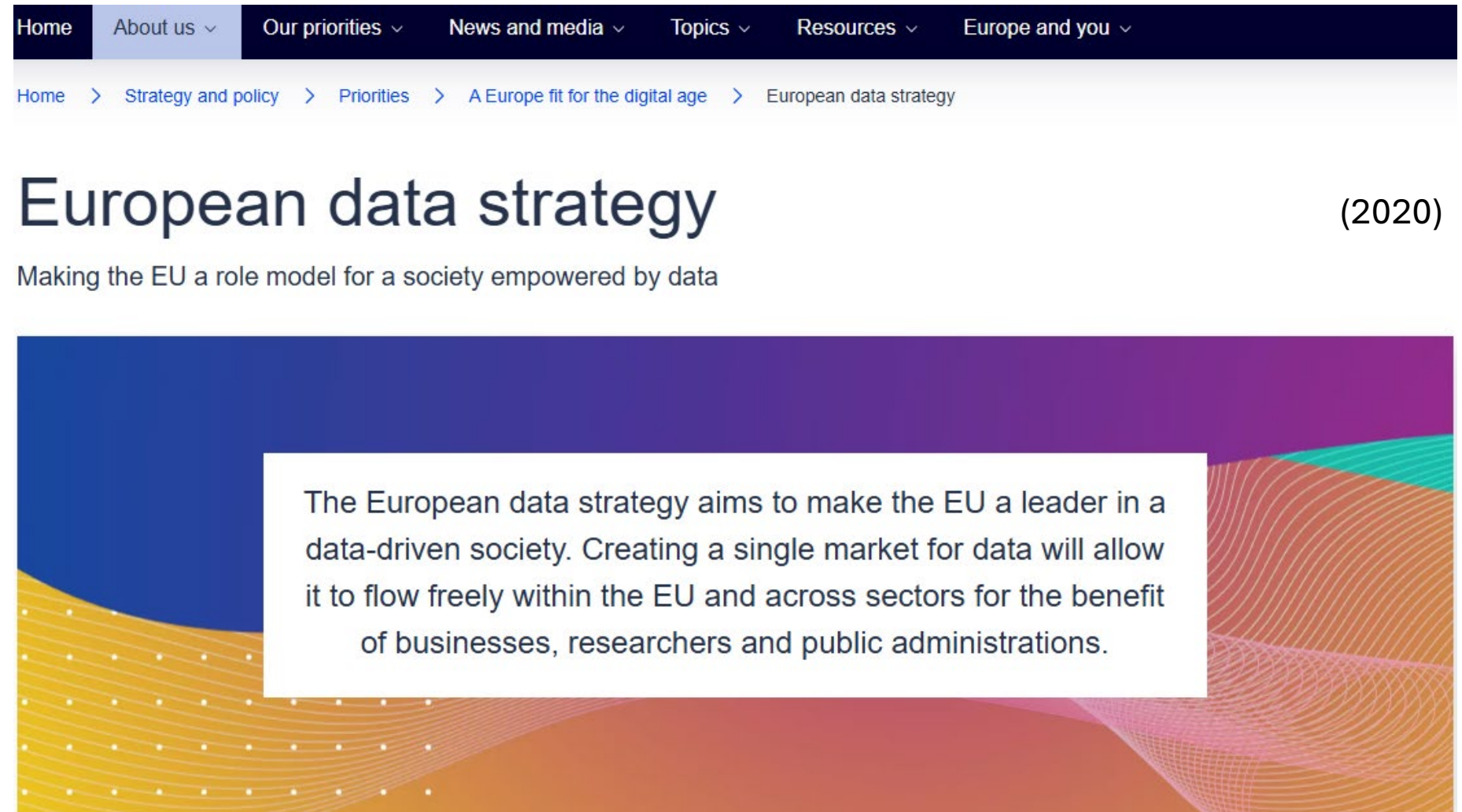
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Ursula Von der Layen y Pedro Sánchez (2022)

ORIGEN



<https://commission.europa.eu/european-data-strategy>

NORMATIVAS

2016



2022



2023



2024



Data sharing in the EU – common European data spaces (new rules)

[Have your say - Public Consultations and Feedback](#) > [Published initiatives](#) > [Data sharing in the EU – common European data spaces \(new rules\)](#)

Public consultation

Consultation period

20 February 2020 - 03 June 2020

Feedback: Closed

Roadmap

Feedback period

03 July 2020 - 31 July 2020

Feedback: Closed

Commission adoption

Feedback period

25 November 2020 - 08 February 2021

Feedback: Closed

About this initiative

Summary

The Commission aims to create a single market for data, where data from public bodies, business and citizens can be used safely and fairly for the common good.

This initiative will draw up rules for common European data spaces (covering areas like the environment, energy and agriculture) to:

- make better use of publicly held data for research for the common good
- support voluntary data sharing by individuals
- set up structures to enable key organisations to share data.

Topic

Digital economy and society

Type of act

Proposal for a regulation

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DEFINICIÓN – EL “VIEJO” CONCEPTO

SIGMOD Record, Vol. 34, No. 4, Dec. 2005

From Databases to Dataspaces: A New Abstraction for Information Management

Michael Franklin
University of California, Berkeley

Alon Halevy
Google Inc. and U. Washington

David Maier
Portland State University

Abstract

The development of relational database management systems served to focus the data management community for decades, with spectacular results. In recent years, however, the rapidly-expanding demands of “data everywhere” have led to a field comprised of interesting and productive efforts, but without a central focus or coordinated agenda. The most acute information management challenges today stem from organizations (e.g., enterprises, government agencies, libraries, “smart” homes) relying on a large number of diverse, interrelated data sources, but having no way to manage their *dataspaces* in a convenient, integrated, or principled fashion. This paper proposes dataspace and their support systems as a new

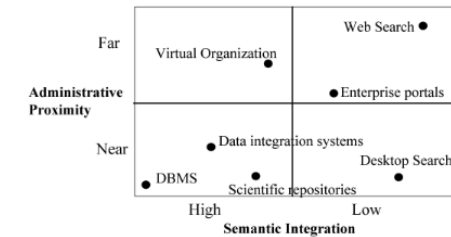


Figure 1. A space of data management solutions.

DEFINICIÓN – EL “VIEJO” CONCEPTO

A dataspace should contain all of the information relevant to a particular organization regardless of its format and location, and model a rich collection of relationships between data repositories

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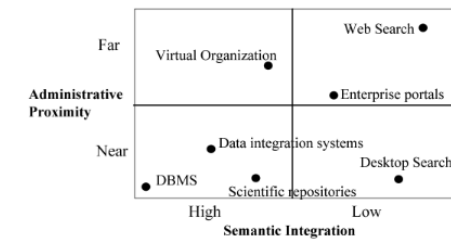


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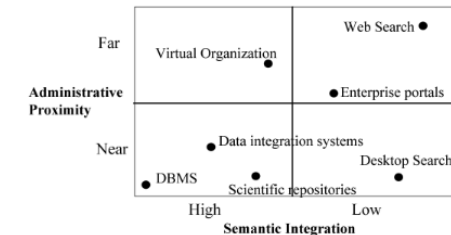


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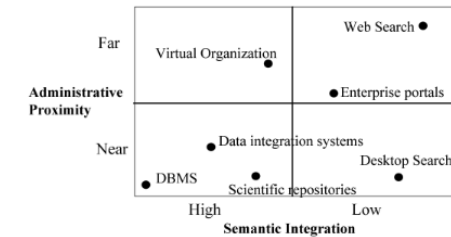


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Data Warehouse

Data Lake

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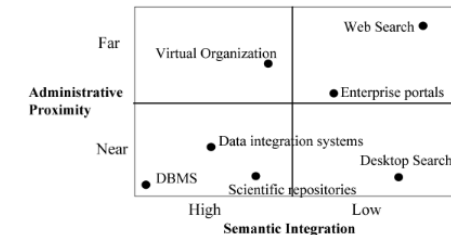


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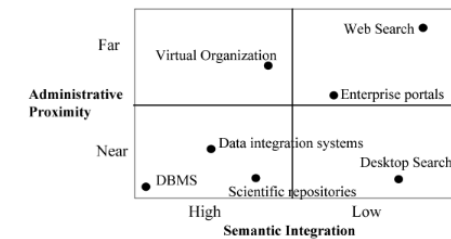


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Data Warehouse

Data Lake

Data Lakehouse

Data Mesh

DEFINICIÓN

A Data Space is

https://language-data-space.ec.europa.eu/help/faq/what-data-space_en

DEFINICIÓN

A Data Space is a framework that supports data sharing within a data ecosystem. It provides a clear structure for participants to share, trade, and collaborate on data assets in a way that is compliant with relevant laws and regulations and ensures fair treatment for all involved.

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[INCISO]

SE NOS
ROMPIÓ EL
SOFTWARE
(de tanto usarlo)



ÁNGEL LUIS RUBIO GARCÍA
Seminario de Informática "Mirian Andrés"
8 de febrero de 2022

Reverse Engineering Software Ecosystems



Doctoral Dissertation
presented by
Mircea F. Lungu
October 2009

A software ecosystem is a collection of software projects which are developed and co-evolve in the same environment.



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INTERACCIONES

Políticas

Legislativas

Económicas

Sociales

Técnicas

Projected figures 2025



530%

**increase of global
data volume**

from 33 zettabytes in
2018 to 175 zettabytes



€829 billion

**value of data
economy in the EU27**

from €301 billion (2.4%
of EU GDP) in 2018



10.9 million

**data professionals in
the EU27**

from 5.7 million in 2018



65%

**Percentage of EU
population with basic
digital skills**

from 57% in 2018

<https://commission.europa.eu/european-data-strategy>

ESTRUCTURAS

**European
Digital
Infraestructure
Consortium**

“legal framework aiding Member States to set up
and implement multi-country projects”

<https://digital-strategy.ec.europa.eu/en/policies/edic>

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1. Alliance for **Language Technologies** EDIC
<https://alt-edic.eu/>

ESTRUCTURAS

European Digital Infraestructure Consortium

“legal framework aiding Member States to set up and implement multi-country projects”

<https://digital-strategy.ec.europa.eu/en/policies/edic>

1. Alliance for **Language Technologies** EDIC
<https://alt-edic.eu/>
2. Networked **Local Digital Twins** towards the CitiVERSE EDIC
<https://digital-strategy.ec.europa.eu/en/factpages/citiverse>

ESTRUCTURAS

European Digital Infraestructure Consortium

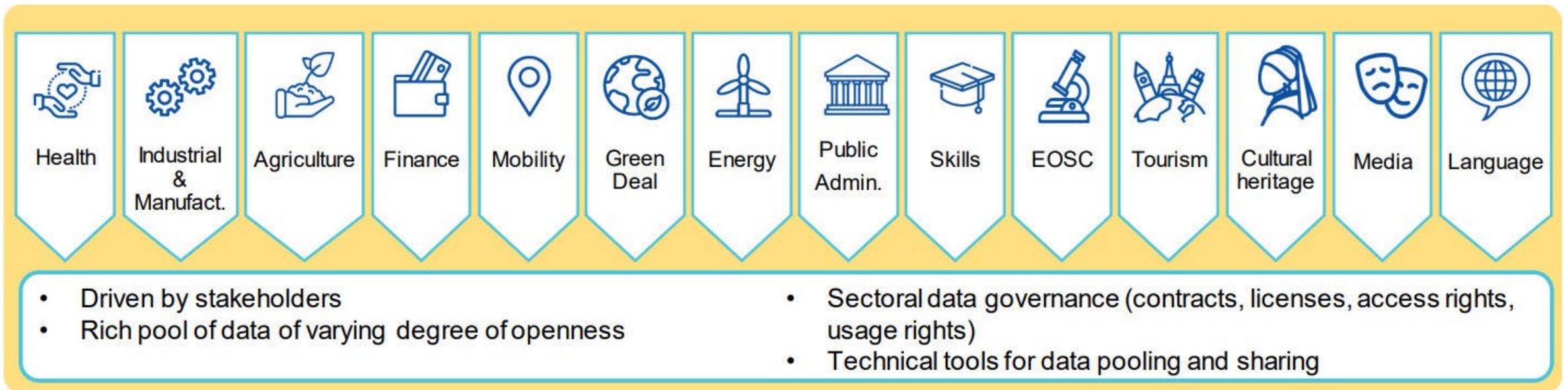
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 3. EDIC for European Blockchain Partnership and **European Blockchain Service Infrastructure** (EUROPEUM-EDIC) <https://digital-strategy.ec.europa.eu/en/news/blockchain-creation-europeum-edic>
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ESTRUCTURAS

14 Sectores en los que crear Espacios de Datos Comunes Europeos

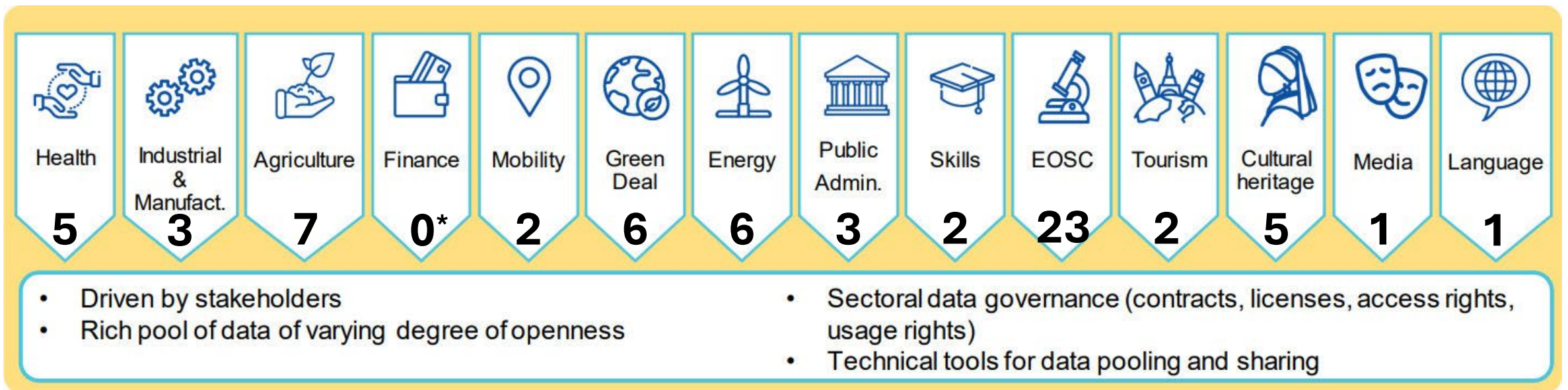


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<https://digital-strategy.ec.europa.eu/en/policies/data-spaces>

ESTRUCTURAS

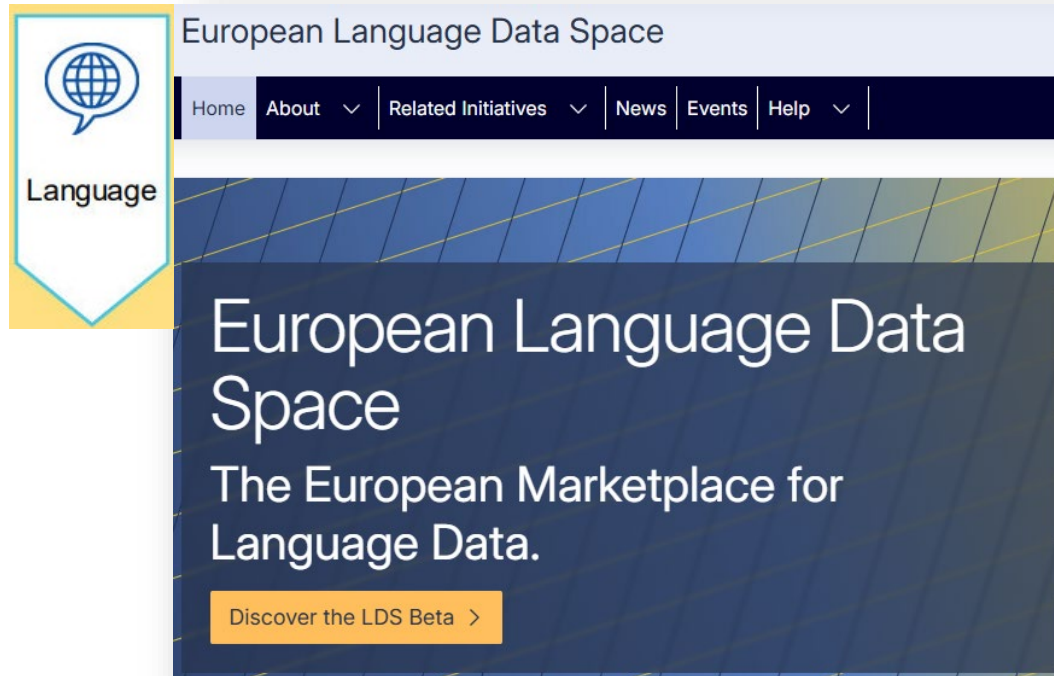
66 Espacios de Datos Comunes Europeos ya definidos o previstos



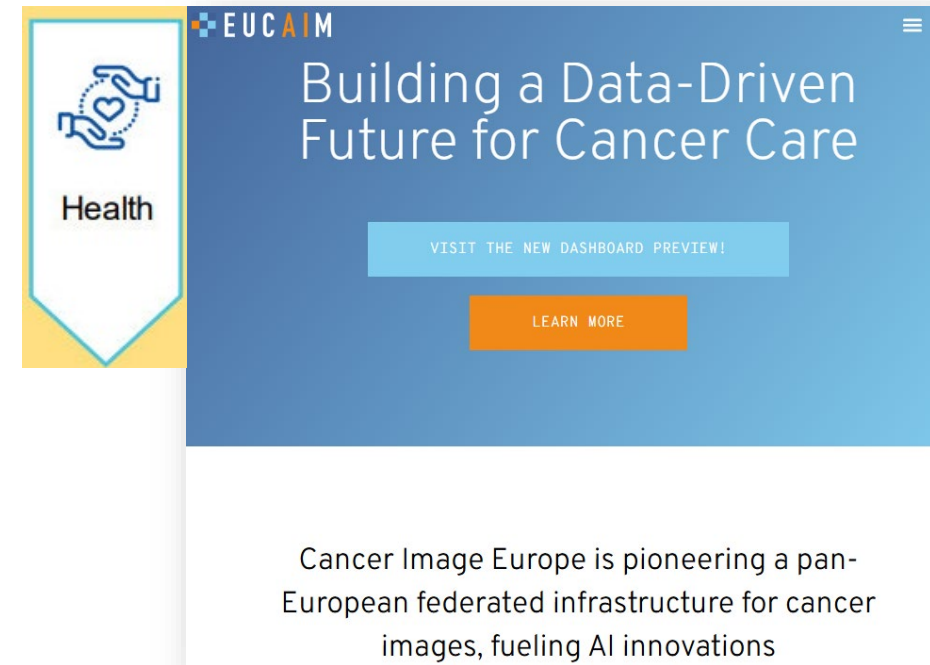
© European Commission

<https://digital-strategy.ec.europa.eu/en/policies/data-spaces>

ALGUNOS EJEMPLOS



https://language-data-space.ec.europa.eu/index_en



<https://cancerimage.eu/>

ALGUNOS EJEMPLOS



<https://data.europa.eu/en/ELDS>



<https://www.skillsdataspace.eu/>

ALGUNOS EJEMPLOS



<https://www.ds4sscc.eu/>



<https://ai4eosoc.eu/>

ACTORES

- Gobiernos (nacionales, regionales, locales)
- Universidades
- Centros de investigación
- Empresas
- Consorcios de empresas

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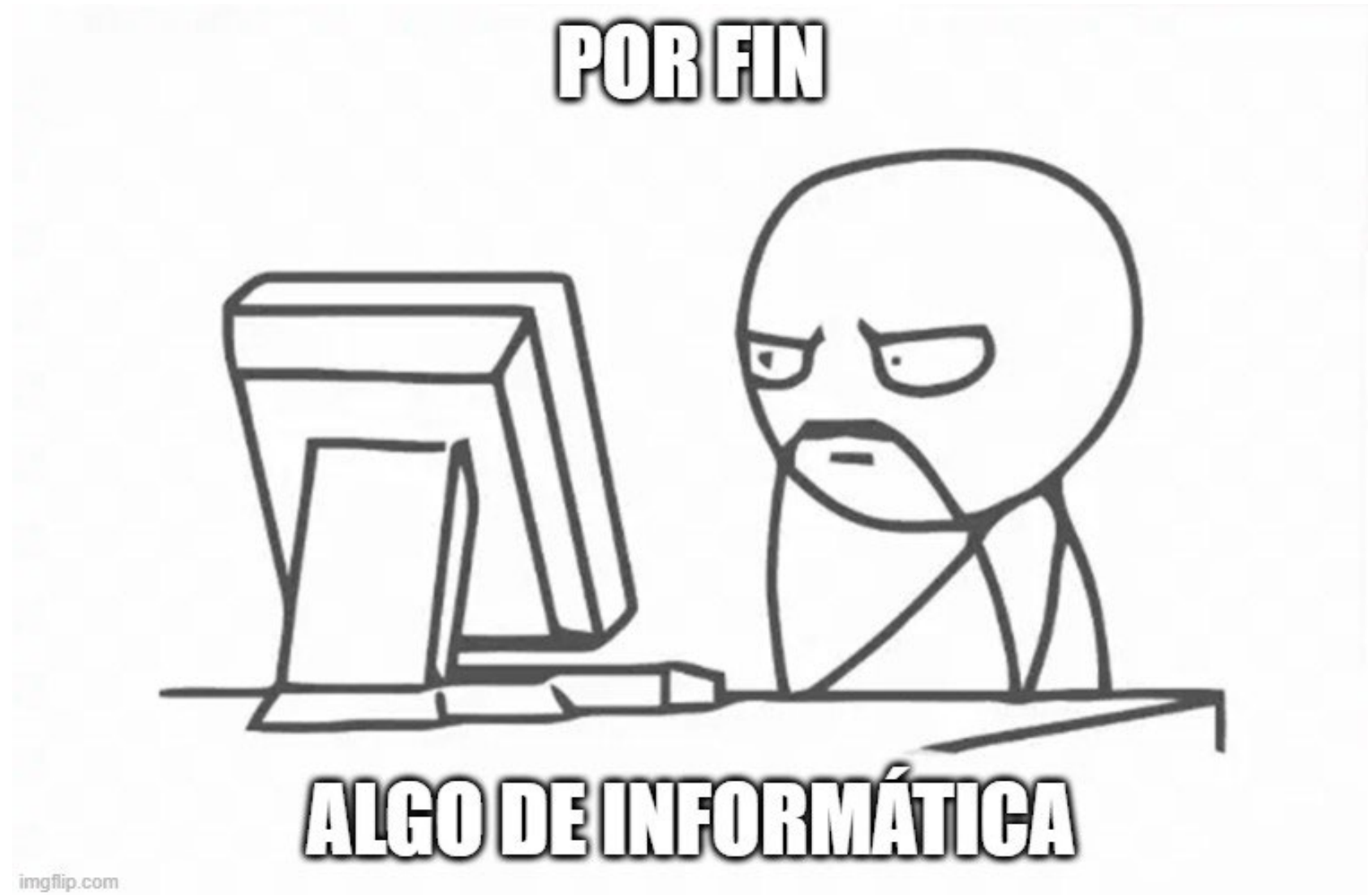


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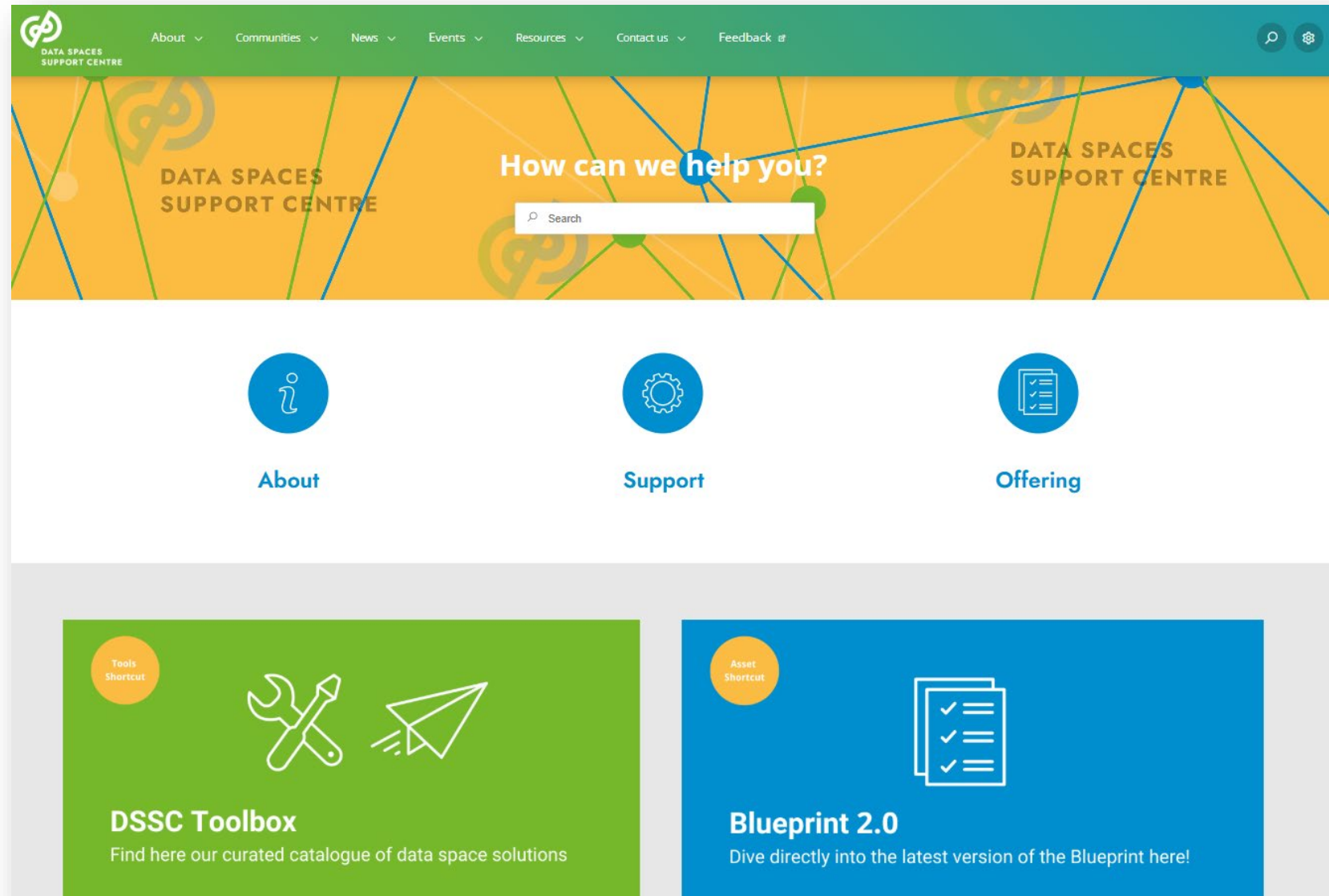


ASPECTOS TÉCNICOS



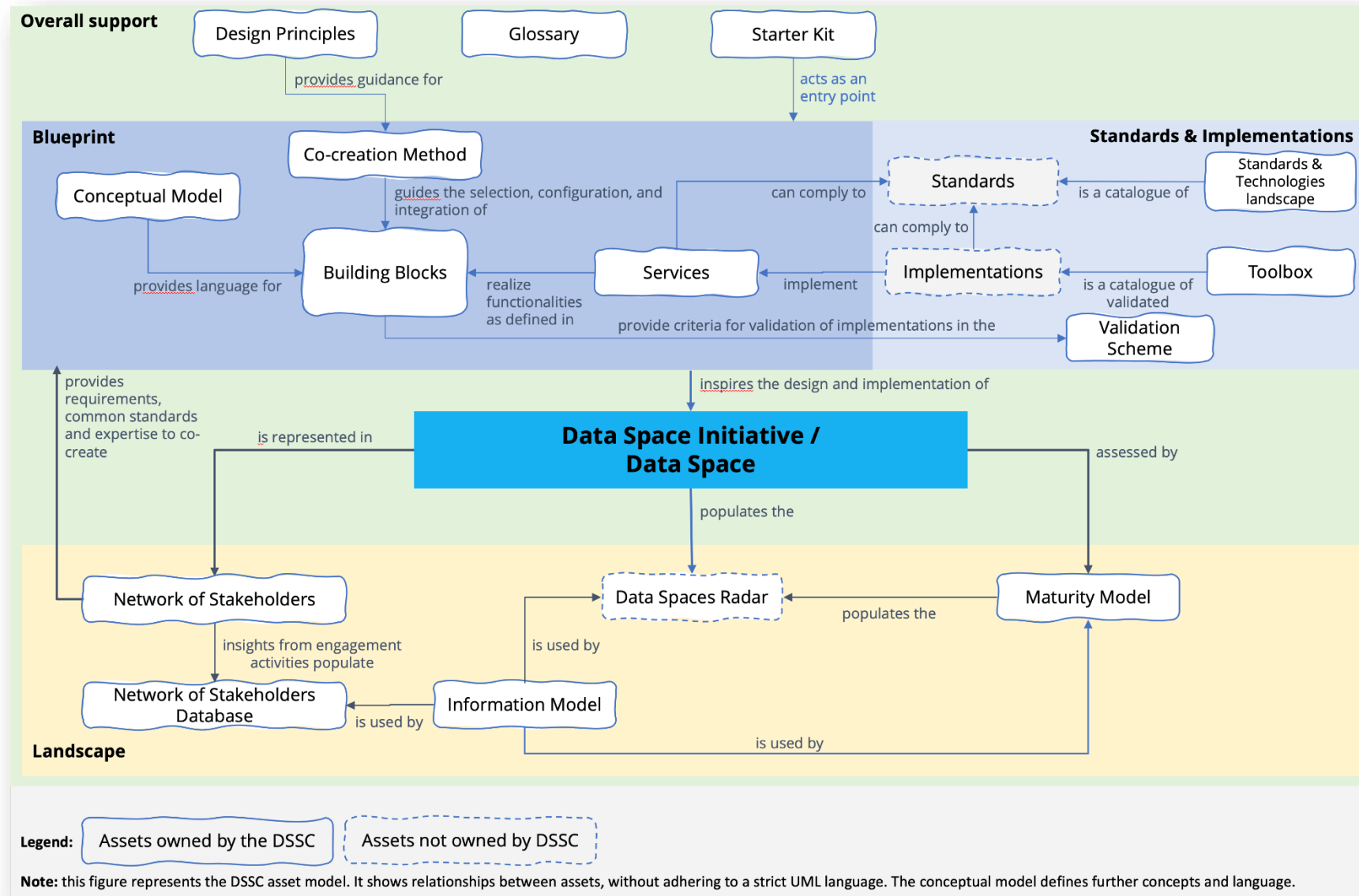
DATA SPACES SUPPORT CENTRE (DSSC)

<https://dssc.eu/>



DSSC ASSET-BASED APPROACH

<https://dssc.eu/space/BVE2/1071252365/Work+With+Us>



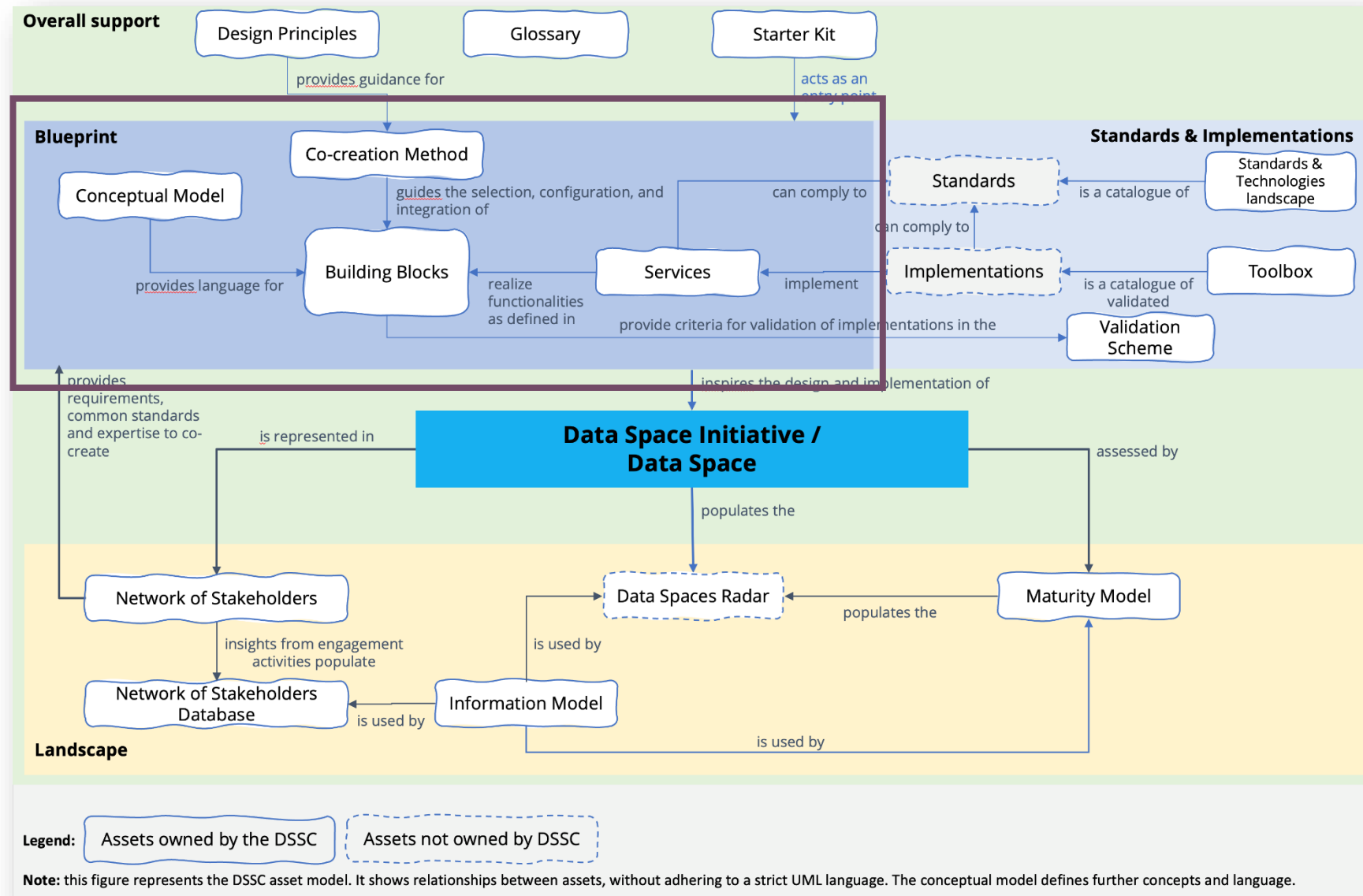
[OTRO INCISO: NOTA CULTURAL]

BLUEPRINT =
CIANOTIPO =
PLANO/PROYECTO

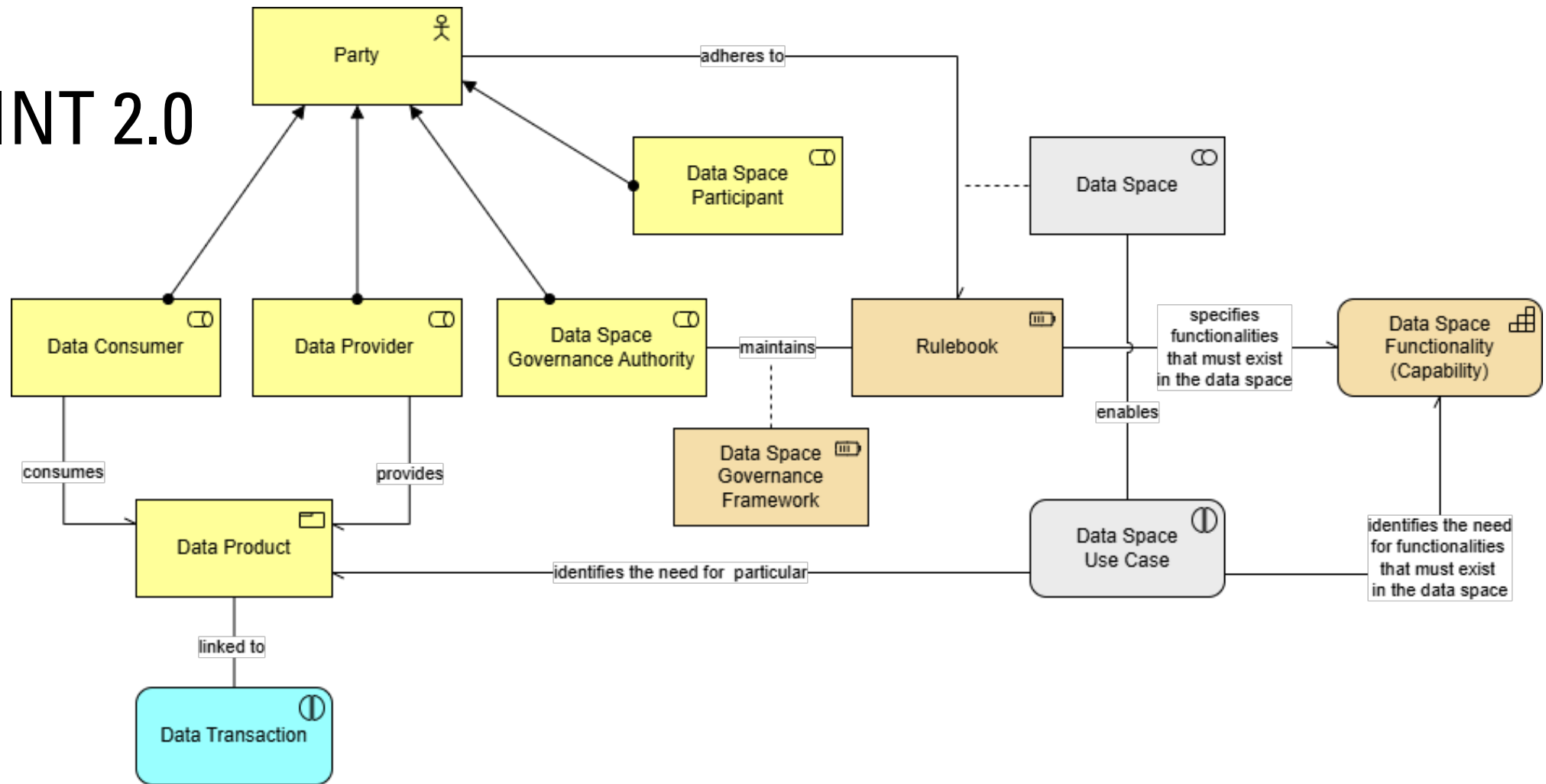


DSSC ASSET-BASED APPROACH

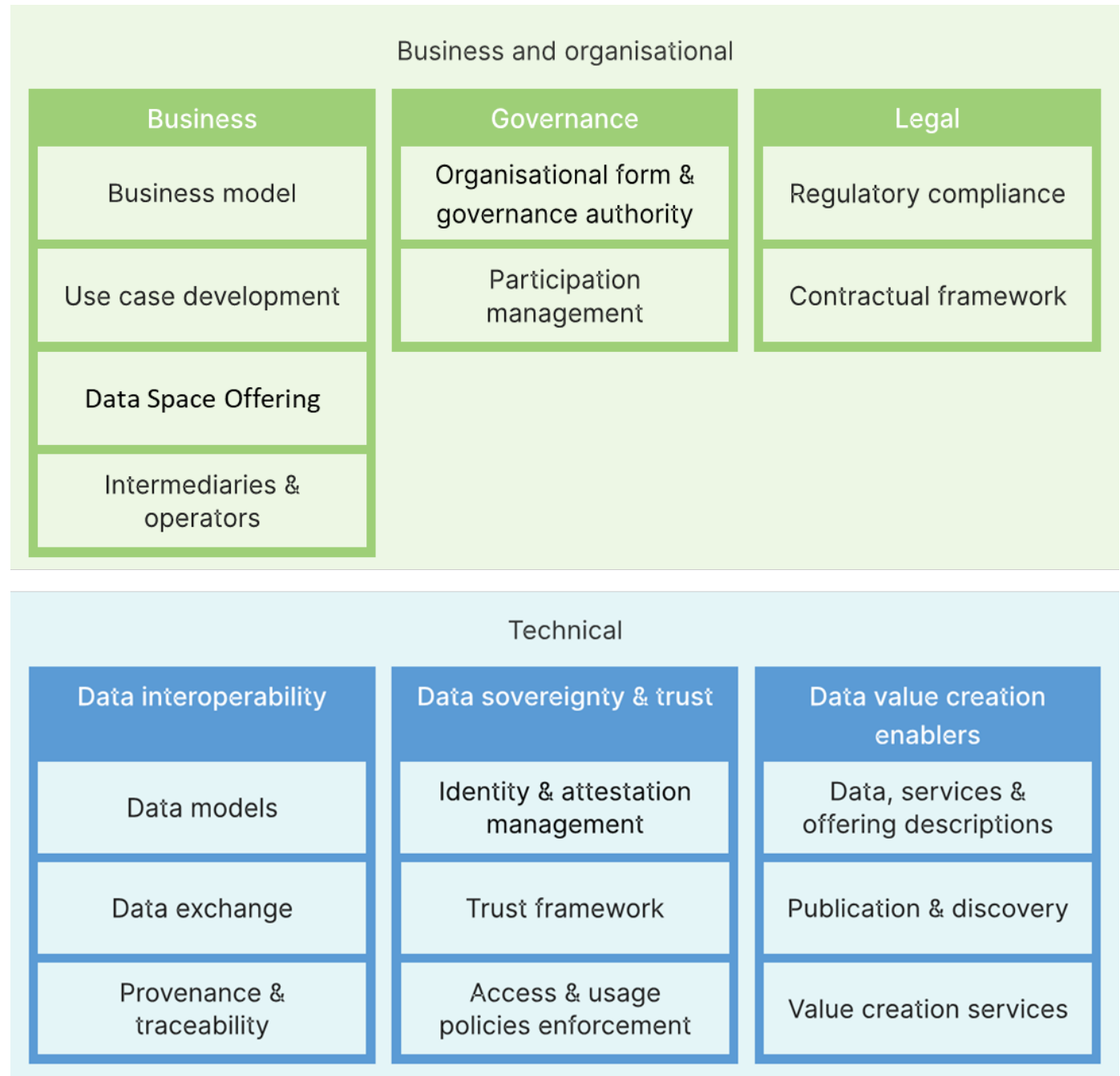
<https://dssc.eu/space/BVE2/1071252365/Work+With+Us>



DSSC BLUEPRINT 2.0



DSSC BUILDING BLOCKS



DSSC CONCEPTUAL MODEL FOR PROVENANCE AND TRACEABILITY

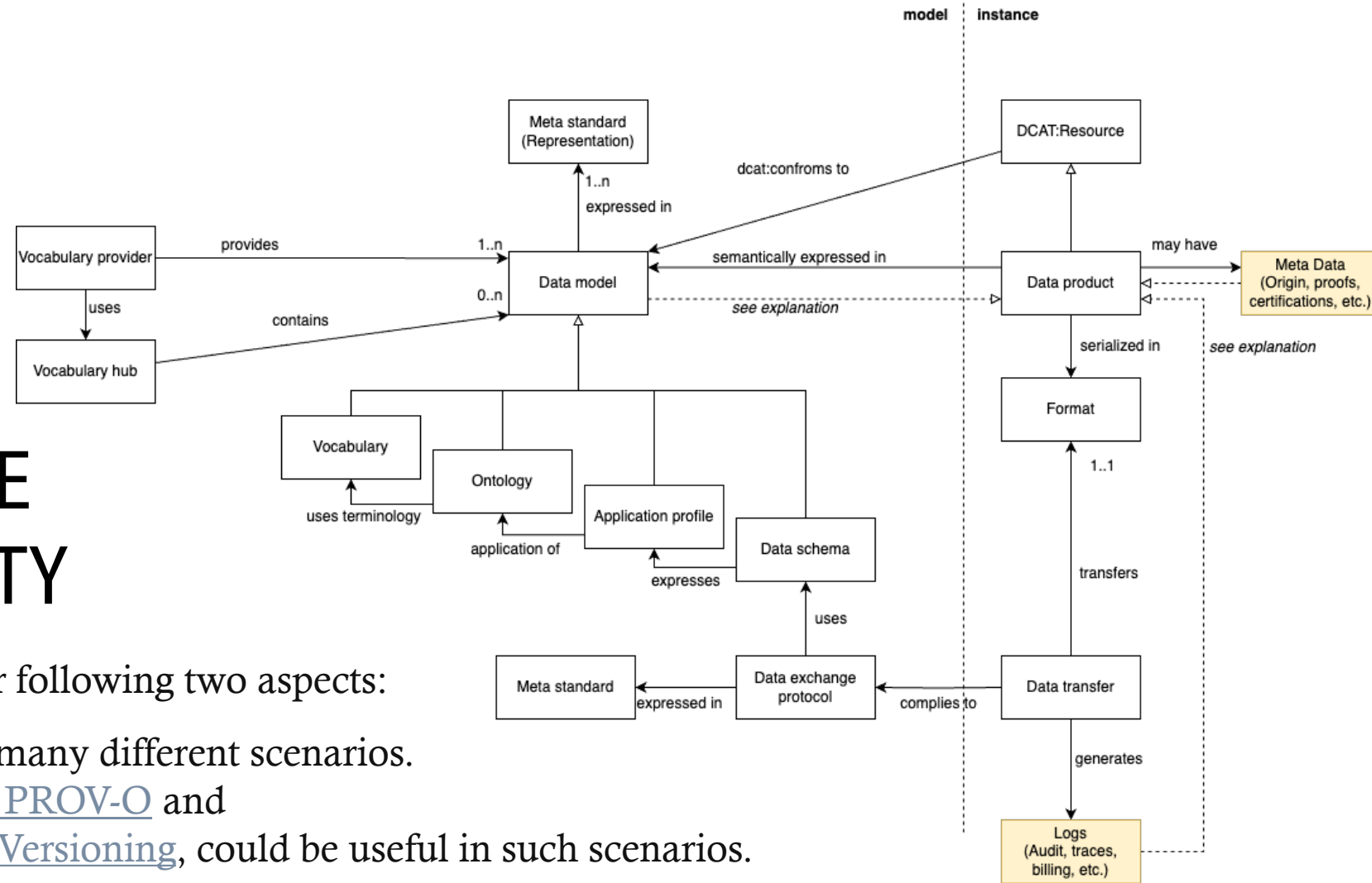
“These data models could consider following two aspects:

- **Generic aspects:** which apply in many different scenarios.

Common ontologies such as [W3C PROV-O](#) and

[PAV - Provenance, Authoring and Versioning](#), could be useful in such scenarios.

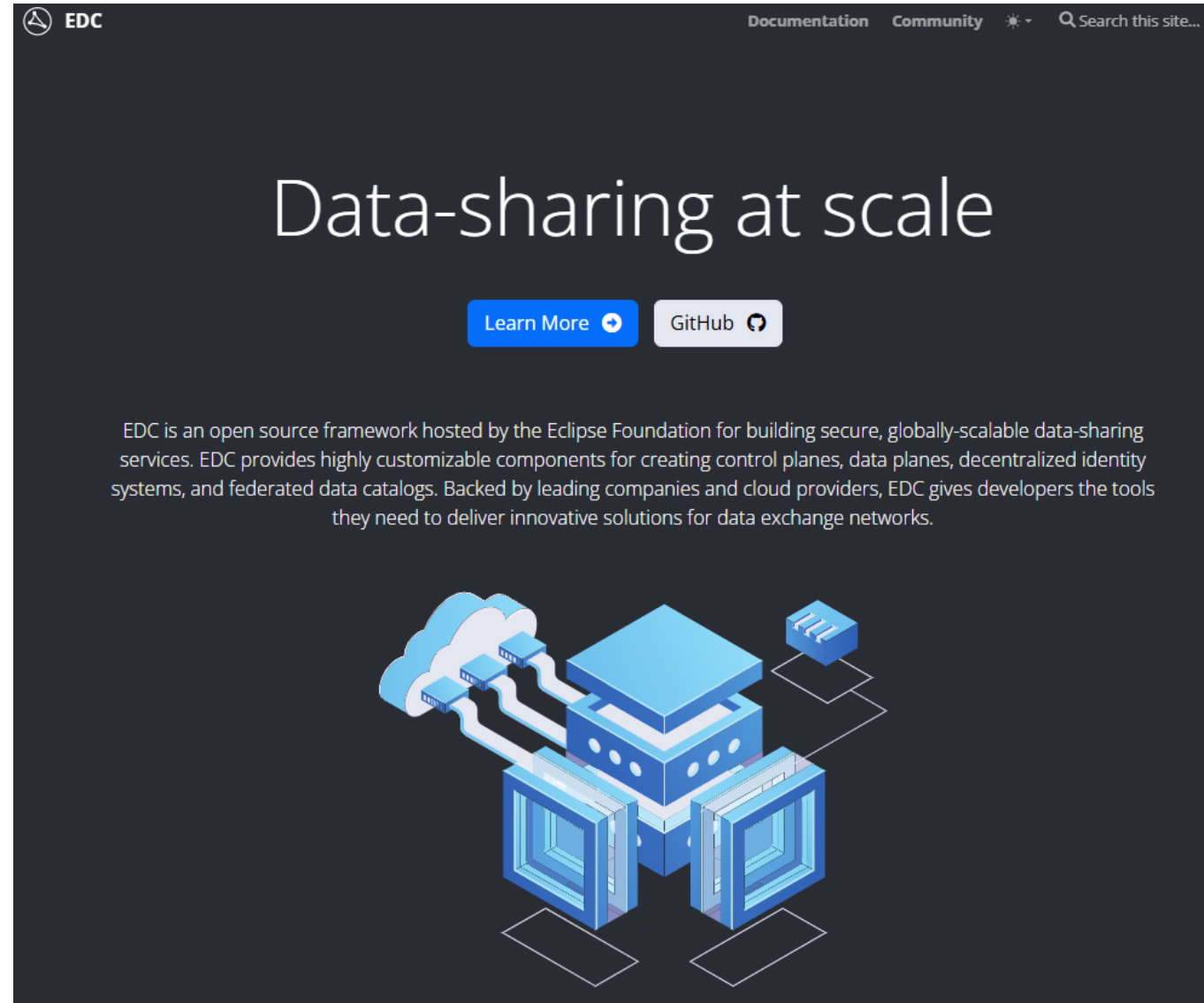
- **Data spaces specific aspects:** which apply in specific scenarios stemming from data space specific requirements. These could be modelled as an extension to either PROV-O or PAV. Some data spaces choose to model ‘events’ which take place in the data space. An example of an approach for this is [CloudEvents](#).”



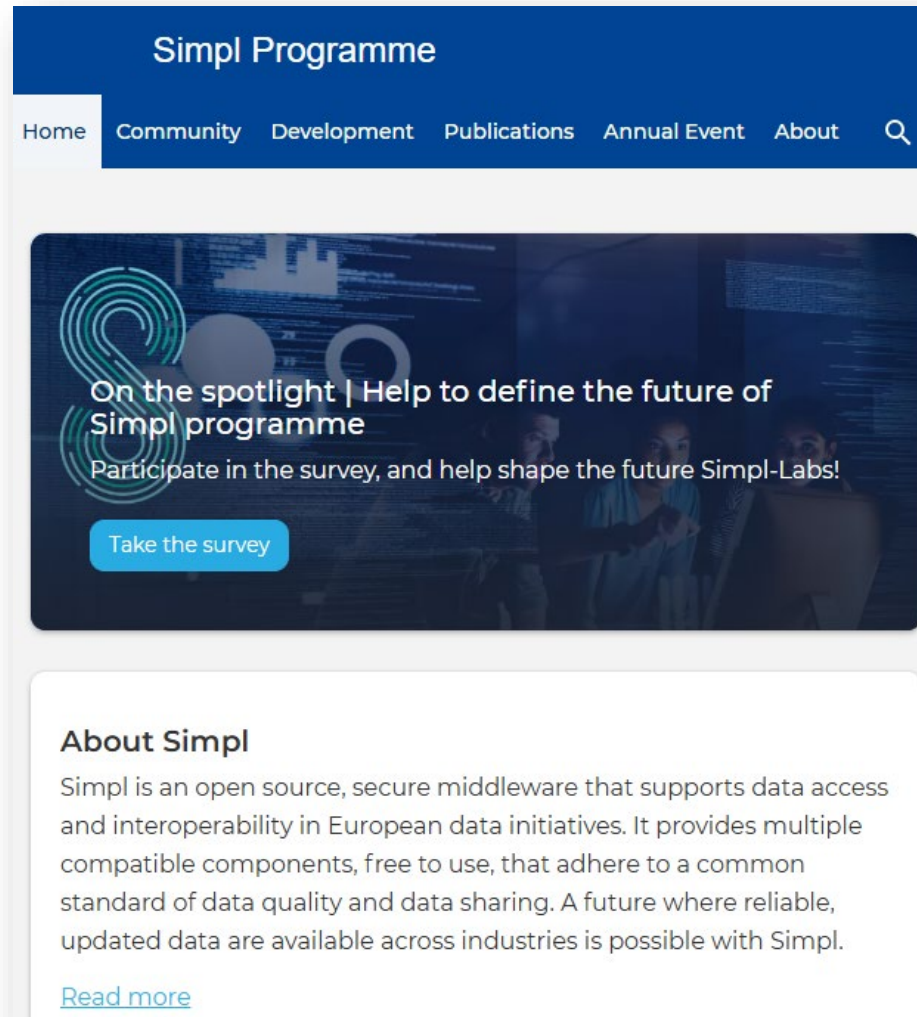
ECLIPSE DATASPACE COMPONENTS (EDC)

<https://eclipse-edc.github.io/>

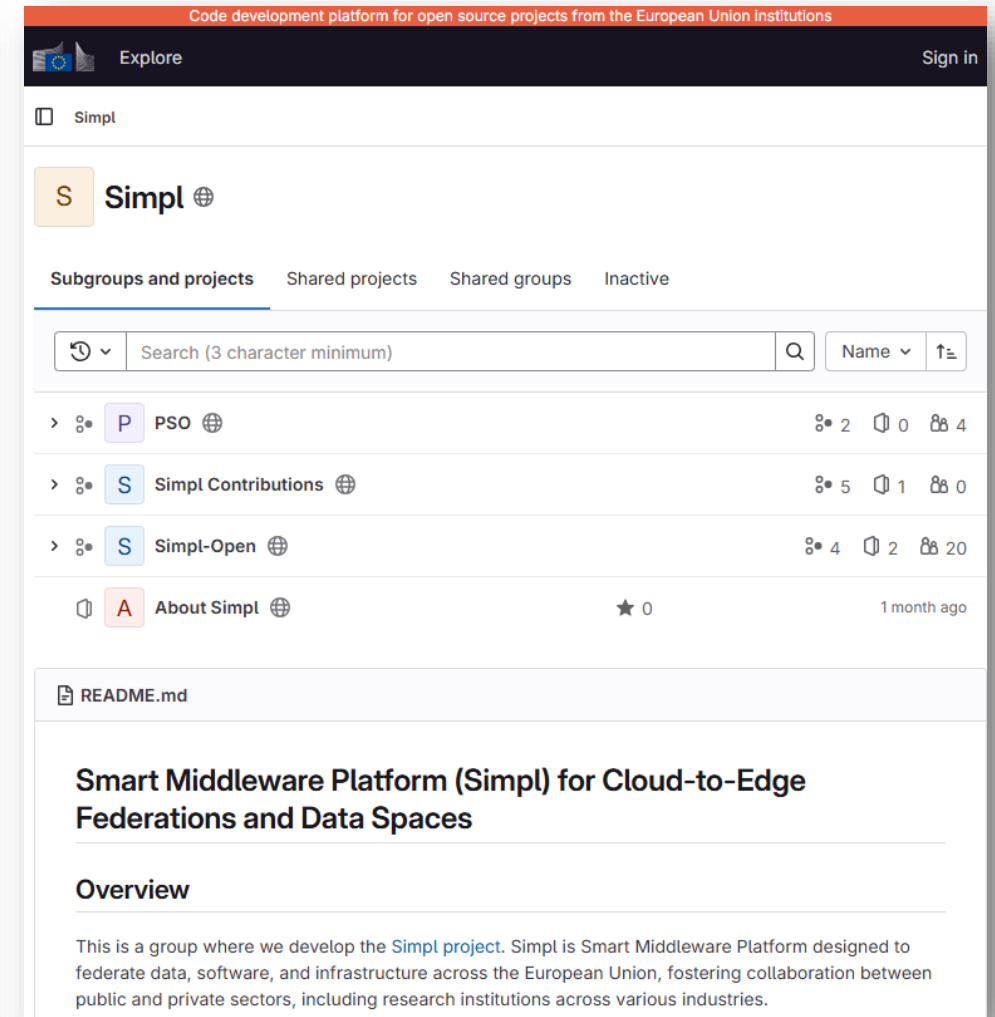
<https://dataspace.eclipse.org/>



SIMPL



<https://simpl-programme.ec.europa.eu/>



<https://code.europa.eu/simpl>

**VALE, TODO ESTO ESTÁ MUY BIEN
PERO...¿FUNCIONA EN LA PRÁCTICA?**

VALE, TODO ESTO ESTÁ MUY BIEN
PERO...¿FUNCIONA EN LA PRÁCTICA?



VALE, TODO ESTÁ MUY BIEN
PERO...¿FUNCIONA EN LA PRÁCTICA?



Seguridad y Privacidad en Espacios de Datos Colaborativos

Luis Alberto Perafan Llanos

Dirigido por: Ángel Luis Rubio García

Máster: Máster universitario en Ciencia de Datos y Aprendizaje Automático

Curso académico: 2023-24

Universidad de defensa: Universidad de La Rioja

Tipo: Trabajo Fin de Máster

Repositorio institucional:  ACCESO ABIERTO  EDITOR

Arsys Lab: plataforma de proyectos e innovación de Arsys

Ponente: Sara Madariaga Merino (Directora de Arsys Lab, Arsys, <https://www.arsys.net/about/innovation>).

Lugar: Seminario Mirian Andrés (Edificio CCT).

Hora: miércoles 20 de diciembre de 2023, 12:00.

CONCLUSIONES

Los **Espacios de Datos** son
una **potente (€€€€)** iniciativa digital europea
con **objetivos ambiciosos (y algo idealistas)**
que se van **concretando en propuestas *tangibles***
gracias (en parte) a contar **con una base técnico/informática
común y consistente.**

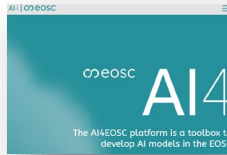
A pesar de todo, es probable que tengan **más futuro en lo público
que en lo privado** (por la desconfianza entre los participantes)

[BOLA EXTRA]

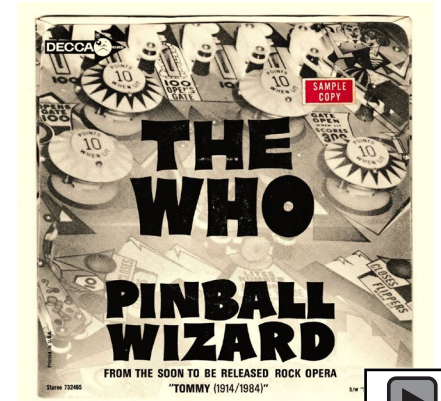


[BOLA EXTRA]

En esta charla SOLO se ha
nombrado DOS VECES



el término
inteligencia artificial
(tres con esta)



(1969)



INTRODUCCIÓN A ESPACIOS DE DATOS

DEBATE

Ángel Luis Rubio García

Seminario de Informática “Mirian Andrés”

30 de junio de 2025
