

CIDAI

Centre of Innovation
for Data tech
and Artificial Intelligence

 Generalitat de Catalunya
Departament de la Vicepresidència
i de Polítiques Digitals i Territori

 Ajuntament de
Barcelona

 BSC
Barcelona
Supercomputing
Center
Centro Nacional de Supercomputación

 CVC
Centre de Valor per Catalunya

 eurecat
Centre Tecnològic de Catalunya

 everis
an NTT DATA Company

 i2cat

 Microsoft

 sdg
group

 UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH
Intelligent Data Science and
Artificial Intelligence Research Center

 IDEAI

EL CIDAI, EL DIGITAL INNOVATION HUB EN IA
DE CATALUNYA

Amics de la UAB
28/10/21

Joan Mas i Albaigès

DIGITAL EUROPE PROGRAM

NEWS / HPC / EUROPEAN COMMISSI...

European Commission announces €7.5 billion programme to accelerate AI and HPC

15 December 2020



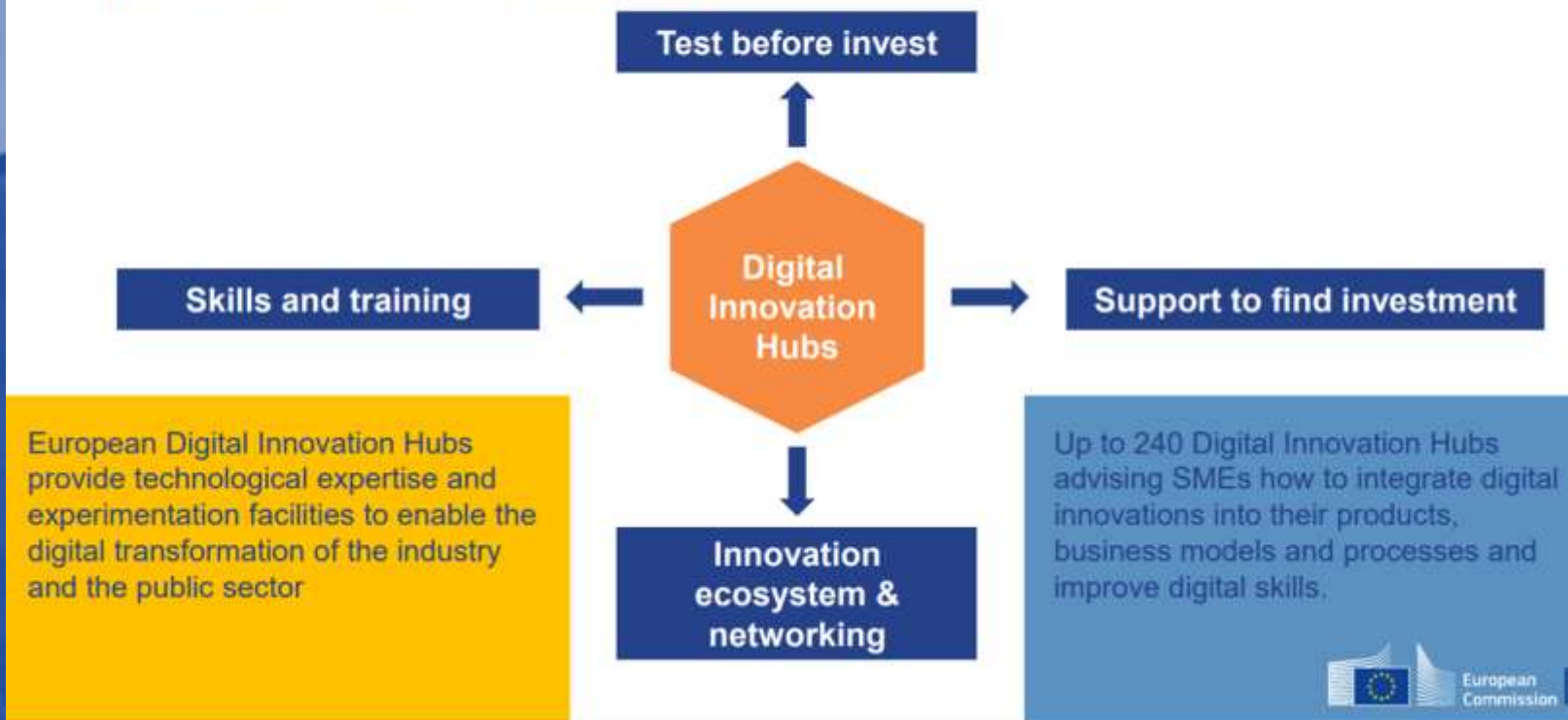
The European Commission has announced a new €7.5 billion Digital Europe Programme to accelerate the recovery and drive the digital transformation of Europe.

The Digital Europe Programme is a part of the next long-term EU budget that will fund projects from 2021-2027. It will provide funding for projects in five crucial areas: supercomputing, artificial intelligence, cybersecurity, advanced digital skills, and ensuring the wide use of digital technologies across the economy and society.

ADOPTED

DIGITAL EUROPE PROGRAM / eDIH

European Digital Innovation Hubs as part of the SME Strategy



DIH4CAT



DIH4CAT



CIBERSECURITY

SMART
CONNECTIVITY

ADITIVE
MANUFACTURING
&
3D PRINTING

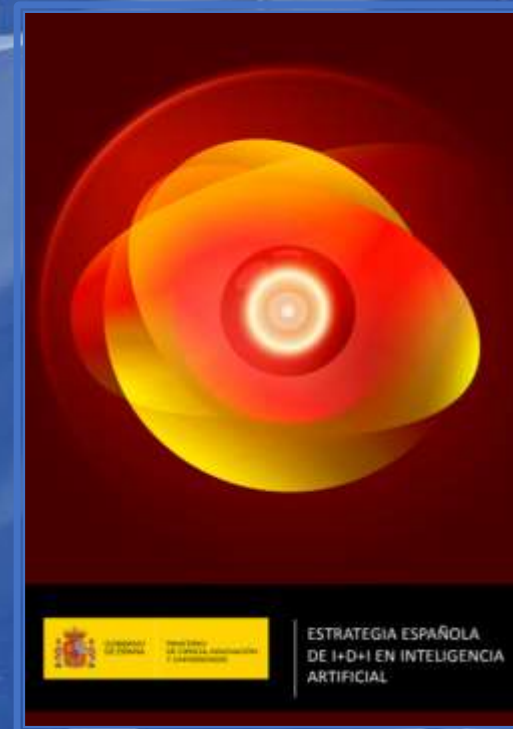
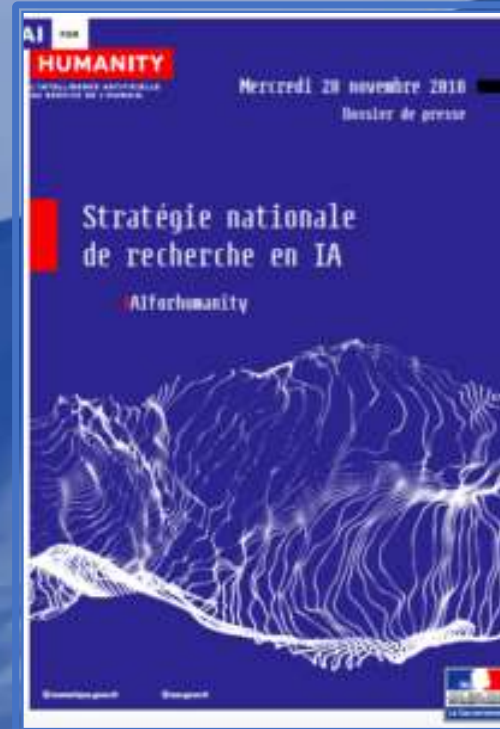
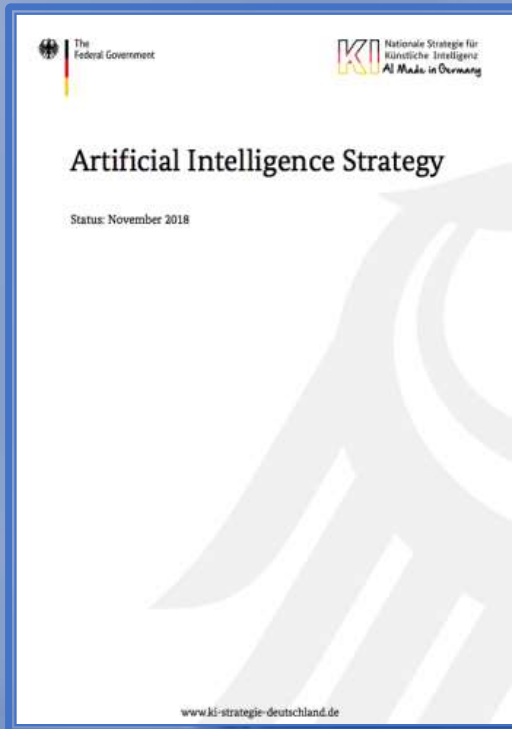
ADVANCED
MANUFACTURIN
G & ROBOTICS

FOTONICS

ARTIFICIAL
INTELLIGENCE
& COMPUTER
VISION

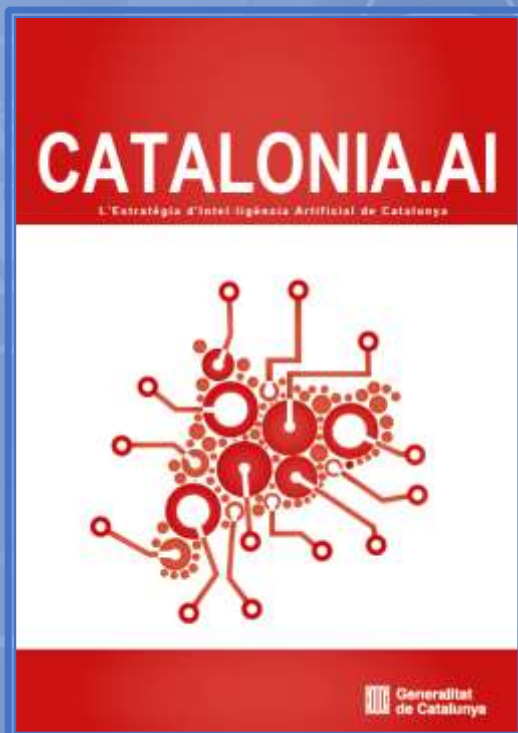
SUPERCOMPUTATION

AI IN EUROPE



ECOSYSTEM BUILDING / SUPPORT R&D / GENERATE TALENT / IA ADOPTION / ETHICS & SOCIETY

CATALONIA.AI



ALIANÇA DE RECERCA EN INTEL·LIGENCIA ARTIFICIAL (AIRA)

OBSERVATORI D'ÈTICA EN INTEL·LIGÈNCIA ARTIFICIAL DE CATALUNYA (OEIAC)

EIX D'EMPRENEDURIA (EN DEFINICIÓ)

CENTRE OF INNOVATION IN DATA TECHNOLOGIES & ARTIFICIAL INTELLIGENCE
(CIDAI)



A key element for the Catalonia.IA strategy

Mission:

Demonstrate the advantages and speed up the adoption of innovative data exploitation and Artificial Intelligence technologies.

Vision:

To promote the Catalan ecosystem to become an international reference for trustworthy AI innovation and adoption both, at an enterprise and at a social level.



Proximity

CIDAI follows the Digital Innovation Hub guidelines defined by the European Commission. It will operate as a networked center to serve companies and institutions.

In constant dialogue with companies and organizations across the region in order to assess their main challenges and opportunities.



Usefulness and impact

Prioritize and promote the most relevant initiatives in order to inspire and facilitating access to state-of-the-art technologies.



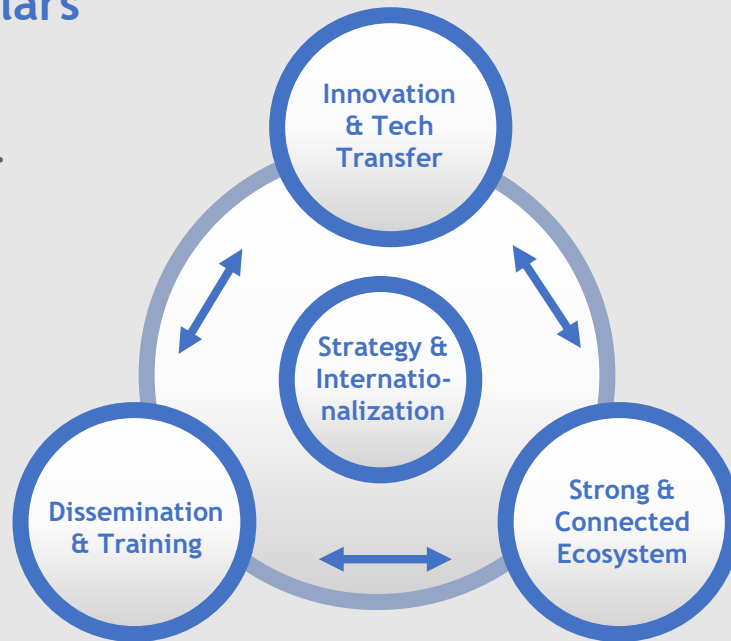
Excellence, neutrality and ethical principles

Activities and projects led by sectorial experts, with continuous technology scouting and ethical & best practices application.

CIDAI's Pillars, Environment & Governance

CIDAI'S four activity pillars

- Design and implement of applied Innovation projects.
- Link and promote the Catalan AI ecosystem.
- Execution of specialized dissemination & training-related activities.
- Strategy and internationalization



CIDAI environment

- Create an active and dynamic community involving all the region's major players.
- Establish a well-connected Catalan ecosystem as an international hub of reference.
- Strong commitment of few Core Partners key for the development of the strategy.



Objectives and CIDAI's pillars



1

INNOVATION AND TECH TRANSFER

To generate, validate and transfer high added value AI technologies to foster innovation in Catalonia's strategic economic sectors, including public administration and third sector.

2

STRONG & CONNECTED ECOSYSTEM

To become the main AI-expert contact for organizations in Catalonia, assisting them individually and by creating a vibrant and collaborative community that connects offering and demand.

3

DISSEMINATION AND TRAINING

To promote AI adoption amongst companies and society by specific dissemination actions and training activities throughout the region.

4

STRATEGY AND INTERNATIONALIZATION

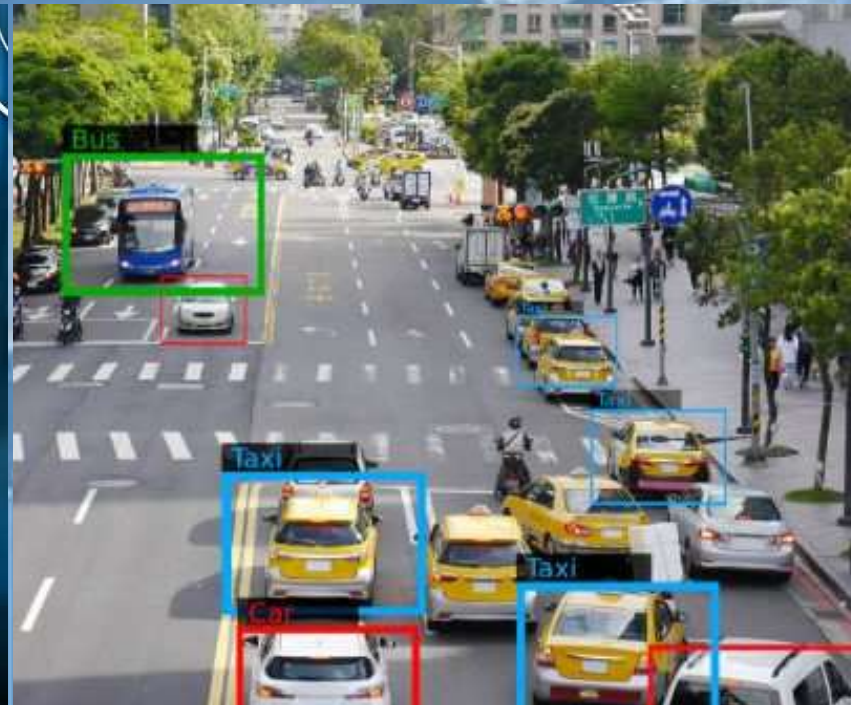
To foster the Catalan AI ecosystem as an international reference hub, reflecting on international trends and best practices and participating in the main AI national and International initiatives.

HIGH IMPACT PROJECTS

DIGITAL HEALTH

MOBILITY

TOURISM



PROOF OF CONCEPT PROJECTS

CIDAI Centre of Innovation
for Data tech
and Artificial Intelligence

Acte de Presentació

3 juny 2021 | 10h - 12:30h

Presentació
Proves de Concepte

The poster features a hand pointing towards a glowing digital network of nodes and lines. The CIDAI logo is in the top left, and the event title and date are in the center. The background is dark blue with light blue highlights.

ració d'objectes
en flux de residus.

nts de veu light

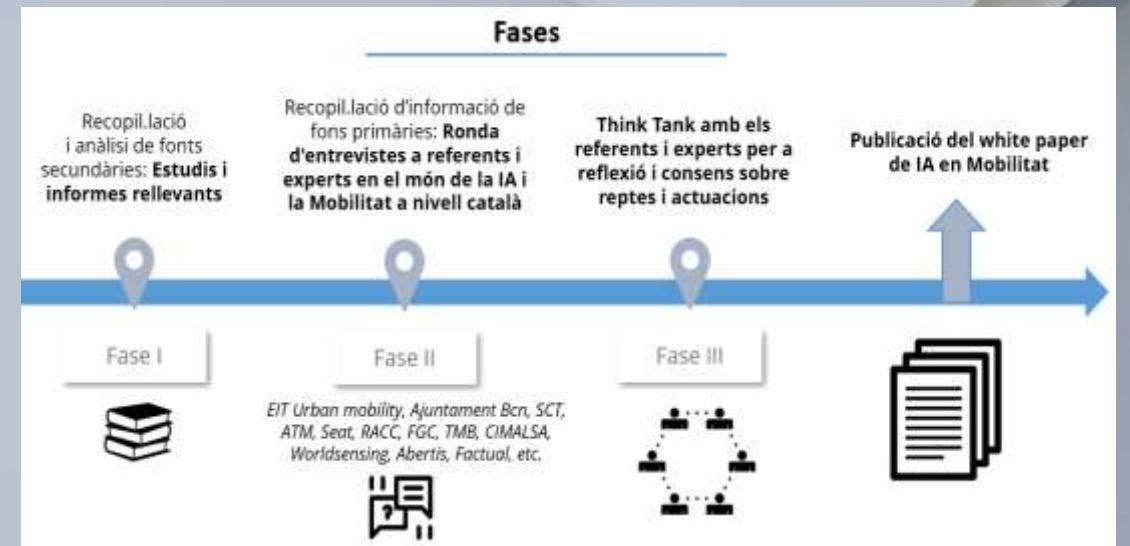
ament de privacitat AI

WHITE PAPERS

WHY?

- Ecosystem building
- How AI and Data technologies are used in strategic sectors
- Opportunities, barriers, recommendations

HOW?



WHITE PAPERS



MASTER CLASSES

16 Master Classes scheduled (8/8)

- AI Techniques & Algorithms
- AI Technology Implementation & Development
- AI Driven Companies
- Data Tech & AI Trends



INNOVATION WORKSHOPS



4 Innovation Workshops in 2021

- Ethics AI (NTT Data) // April
- AI for Earth (Microsoft) // June
- AI in a Day (Microsoft) // November
- Data Ops & Data Vault // January ('22)

INNOVATION WORKSHOPS

- 4 environmental challenges on
 - Agriculture
 - Water Management
 - Biodiversity
 - Climate Change
- 8 discussion tables
- 80+ participants
- 3 Projects sent to AI4EARTH program, few more to follow

The poster features a central blue globe with a robotic hand reaching from the top right and a human hand reaching from the bottom. Four circular icons are arranged around the globe: a butterfly (Biodiversity), a cracked earth (Climate Change), a waterfall (Water Management), and a hand holding a plant (Agriculture). The background is a dark blue space with light trails and data points.

AI for Earth Workshop

15th June 2021

Organized by:

Generalitat de Catalunya CIDAI Centre of Innovation for Data tech and Artificial Intelligence

Sponsored by:

Microsoft eurecat i2cat

INNOVATION WORKSHOPS

The image is a collage illustrating innovation workshops. It features a Zoom meeting interface with multiple participants, a hand holding a pen over a globe, and a detailed workshop slide. The slide is titled "Modelització de fluxos de mobilitat i predicció per a una gestió adaptativa" and is divided into sections for conceptualization and implementation.

TÍTOL Modelització de fluxos de mobilitat i predicció per a una gestió adaptativa

1 CONCEPTUALITZACIÓ

- Conocer los flujos de movilidad para poder anticipar y adaptar su planificación
- Idea del proyecto
- Participants: ATN Datas, Centres per Investigació Urbana (CIU), Operadors, Gestiona jurídica i ètic
- Recursos necessaris: Dats de telefonia, Bases de dats, Dats de qualitat de l'aire

2 IMPLEMENTACIONS

- Què és necessària per fer un prototip?
- Quins productes de Microsoft?
- Estratègia comercial – explotació de les dades
- Com es mantindria financera la solució?

Organized by: Generalitat de Catalunya

AI & DATA TECH EDUCATIONAL OFFERING IN CATALONIA

+300 training opportunities
identified

All types of training, all
locations

Compiled in a single, easy to
use (on line) catalogue

CIDAI'S CATALOGUE OF SERVICES



- FROM:
 - CIDAI's Members
- TO:
 - SMEs
 - Start-ups
 - Large companies
 - Public Administration

ASSESSMENT

EXPERIMENTATION

TRAINING

AUTODIAGNOSE ON MATURITY LEVEL

The screenshot shows a web form titled 'Identificació de l'organització' and 'Identificació de la persona de contacte'. It includes fields for company name, sector, and contact information. Below this, there is a 'Perfil' section with dropdown menus for 'Sector de l'organització', 'Modalitat de la planta', and 'Disposició d'instal·lacions'. A list of checkboxes follows, detailing various roles and services provided, such as 'Ús com a consumidor de solucions i serveis digitals', 'Fabricants HW i solucions digitals empaquetades', and 'Desenvolupador de productes i aplicacions de programari'.

CIDAI Centre of Innovation for Data tech and Artificial Intelligence

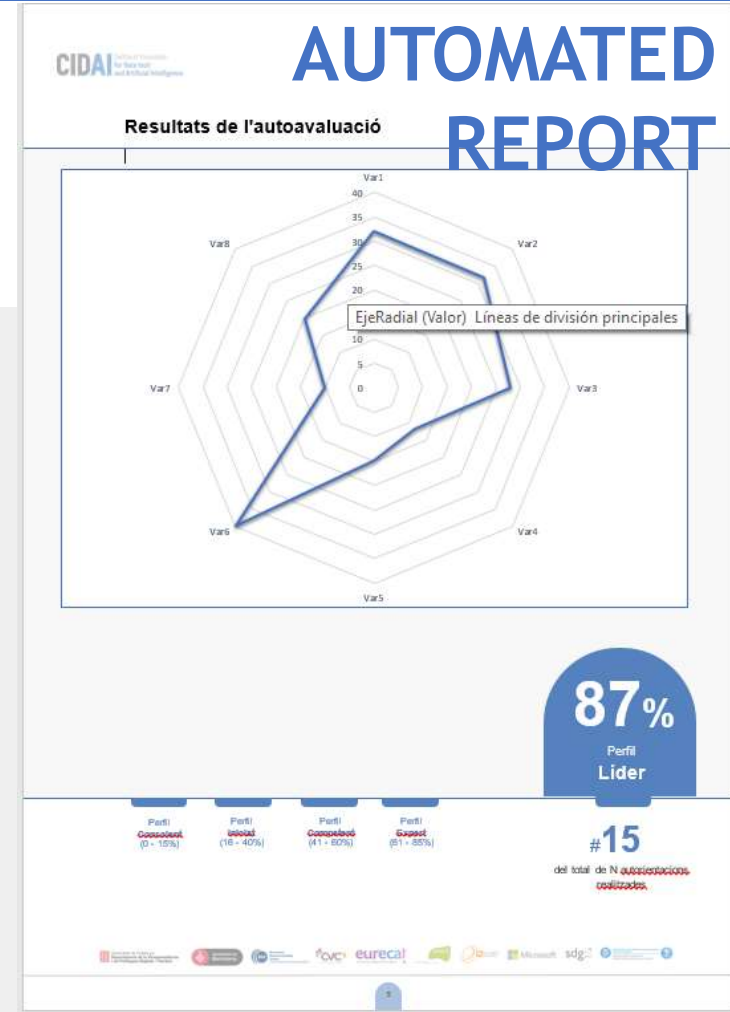
Informe d'autoavaluació en maduresa de tecnologia de les dades i IA

CIDAI, Centre of Innovation for Data tech and Artificial Intelligence

El CIDAI promou la transferència de coneixement i la realització de projectes conjunts entre entitats generadores de coneixement, empreses proveïdores de tecnologia i serveis i empreses i institucions demandants de solucions innovadores en intel·ligència artificial aplicada.

Coordinat per: **eureca!**

Amb la col·laboració de:



WEB FORM

AI ECOSYSTEM MAPPING

Nom de l'organització
Escull una opció

Tipologia d'organització
Escull una opció

Tecnologies i serveis
Tria opcions

Rol dins de l'ecosistema Data
Analytics
Tria opcions

Sector indústria d'aplicació
Tria opcions

Municipi
Escull una opció

OMNIOS
Omnios Cognitive Solutions, S.L.
Omnios és una empresa de desenvolupament de software per a l'anàlisi i filtratge d'informació desestructurada a partir d'algorítmica d'Intel·ligència Artificial (en concret de Processament de Llenguatge Natural). Centra la seva activitat en dues verticals: -...
<https://omnios.ai>
Més informació

AIS GROUP
Ais Aplicaciones De Inteligencia Artificial
Empresa de consultoria amb seu a Barcelona i amb operacions a nivell internacional. La nostra especialitat és generar valor a partir de les dades mitjançant tècniques d'intel·ligència artificial, intel·ligència de negoci i la tecnologia perquè els nostres...
<https://www.ais-int.com/>
Més informació

Mapa de la zona de Palma de Maiorca i Mar Balear.

AI&BD CONGRESS 2021

AI & BIG DATA
CONGRESS

CIDAI Centre of Innovation
for Data tech
and Artificial Intelligence

AI & BIG DATA
CONGRESS

Un evento del
CIDAI Centre of Innovation
for Data tech
and Artificial Intelligence

Organiza:
eurecat
Centre for Research in Advanced Computing

1.707 Inscritos

847 Asistentes únicos

66 Ponentes

24 Entidades colaboradoras

4 Media Partners

51 Impactos mediáticos

645 Tweets durante el congreso

2 M Impresiones Twitter

AI&BD CONGRESS 2021: KNS ANNAN. SCHELEGEL (PROCORE)



AI&BD CONGRESS 2021: KNS CRISTIAN CANTON (FACEBOOK)



Red Queen Dynamics

$$\frac{\partial \text{Attacks}}{\partial t} > \frac{\partial \text{Defenses}}{\partial t}$$



COLLABORATION WITH OEIAC

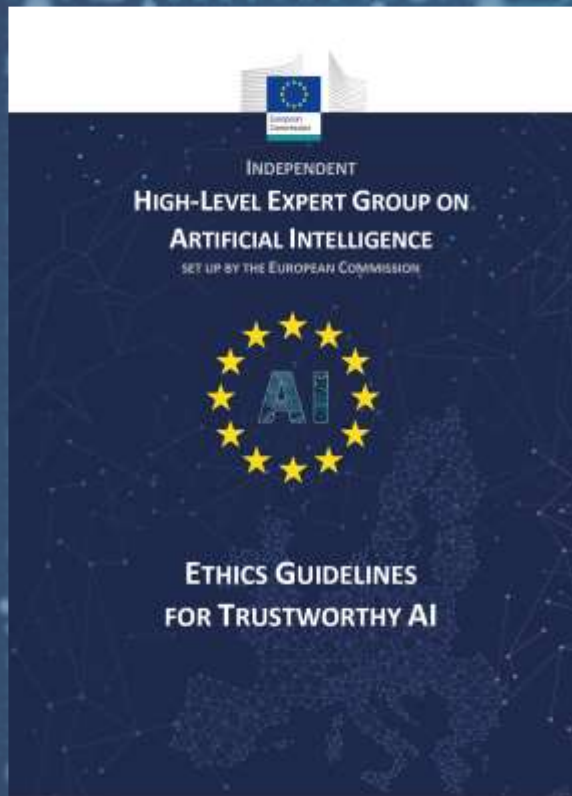


Ethics guidelines in CIDAI's projects

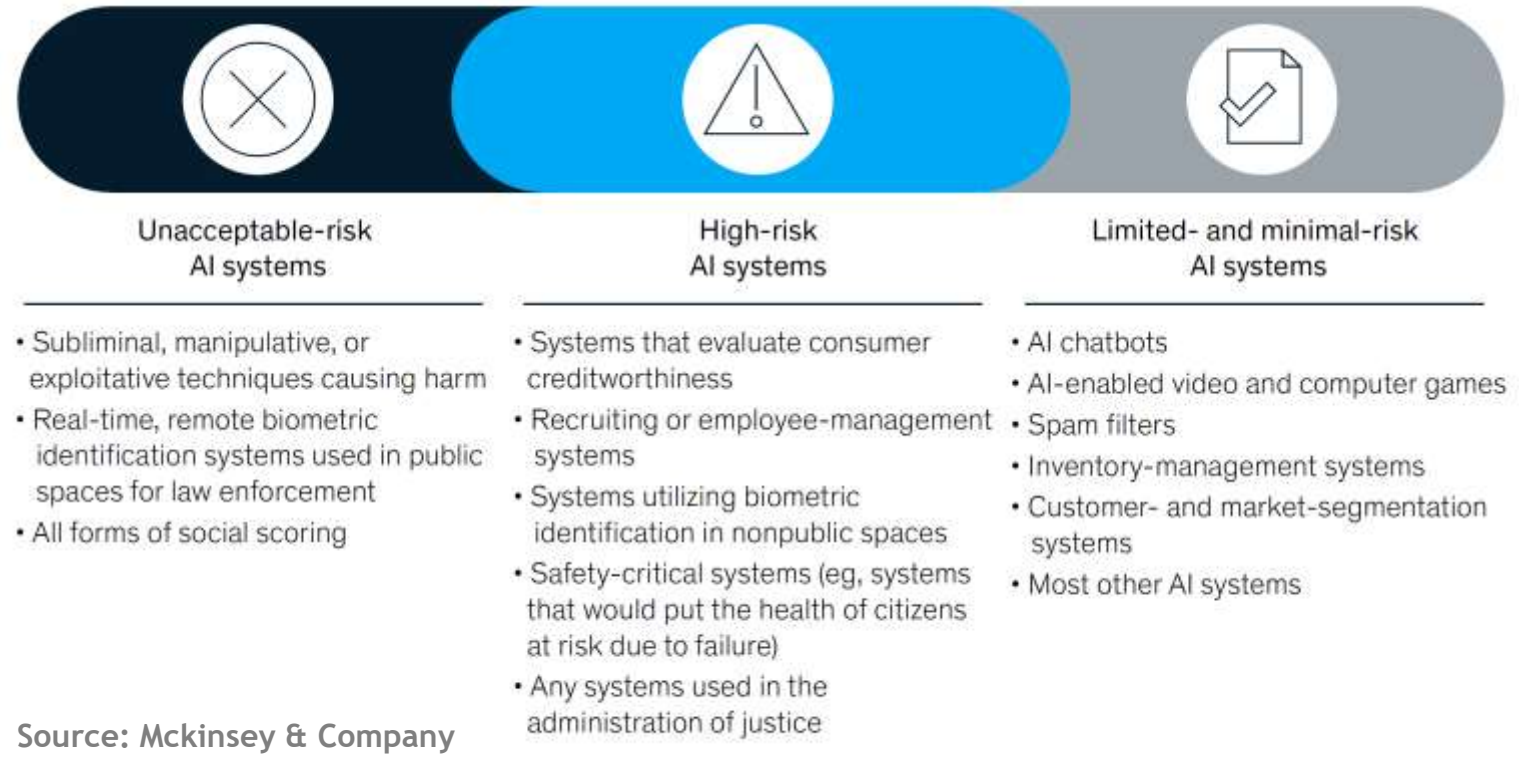
Preparing for regulations

COLLABORATION WITH OEIAC

DIRECTRICES ÉTICAS
PARA UNA IA FIABLE



LEY (EUROPEA) DE
INTELIGENCIA ARTIFICIAL



DIH4CAT



CIDAI WILL CARRY THE NODE
ON:

- ARTIFICIAL INTELLIGENCE
- COMPUTER VISION

HPC // FOTONICS // CYBERSECURITY // ADDITIVE MANUFACTURING
ROBOTICS // SMART COMMUNICATION

CIDAI'S CATALOGUE OF SERVICES



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ASSESSMENT

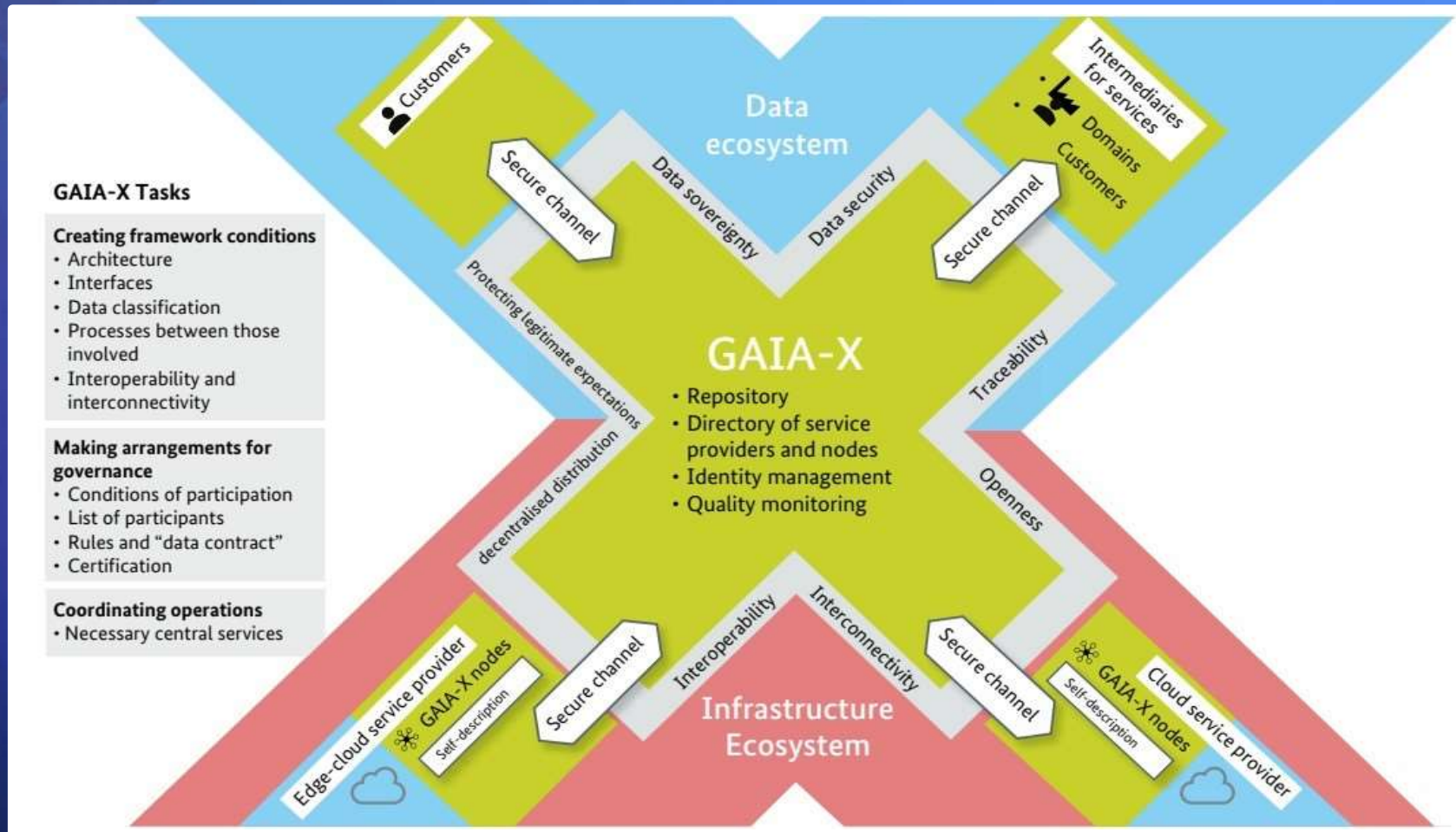
EXPERIMENTATION

TRAINING

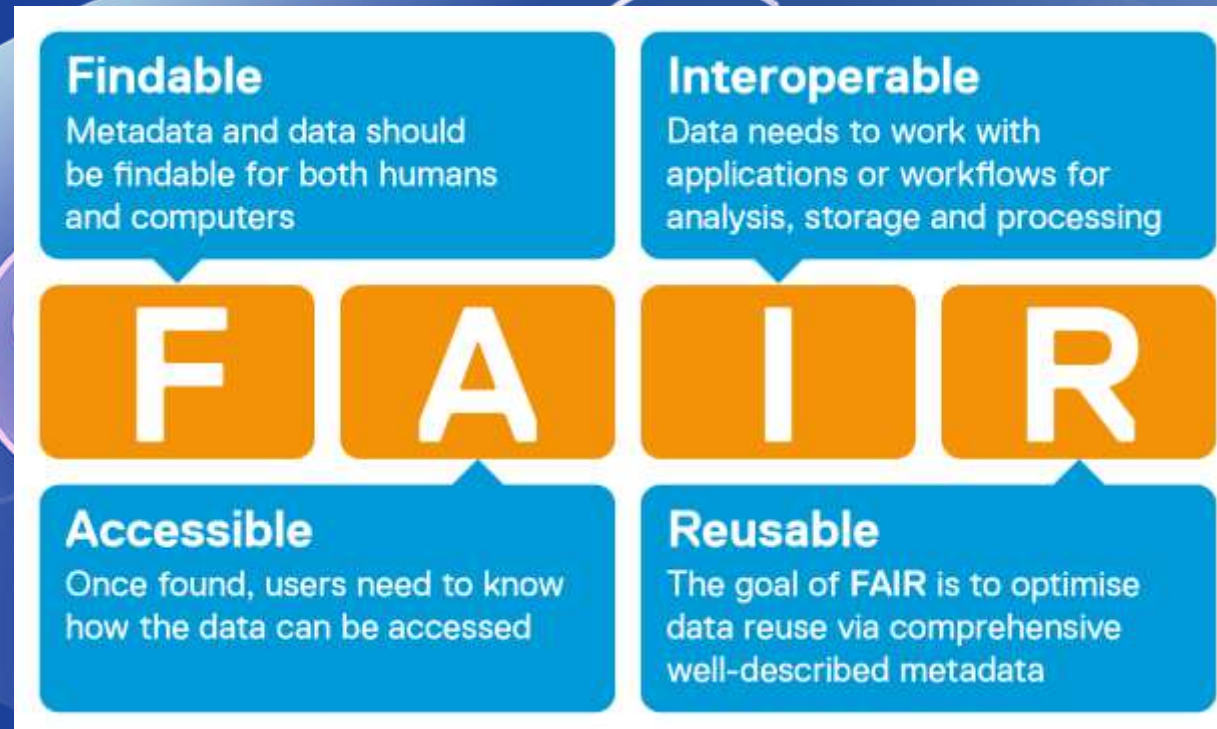
EU's PUBLIC CLOUD INFRASTRUCTURE



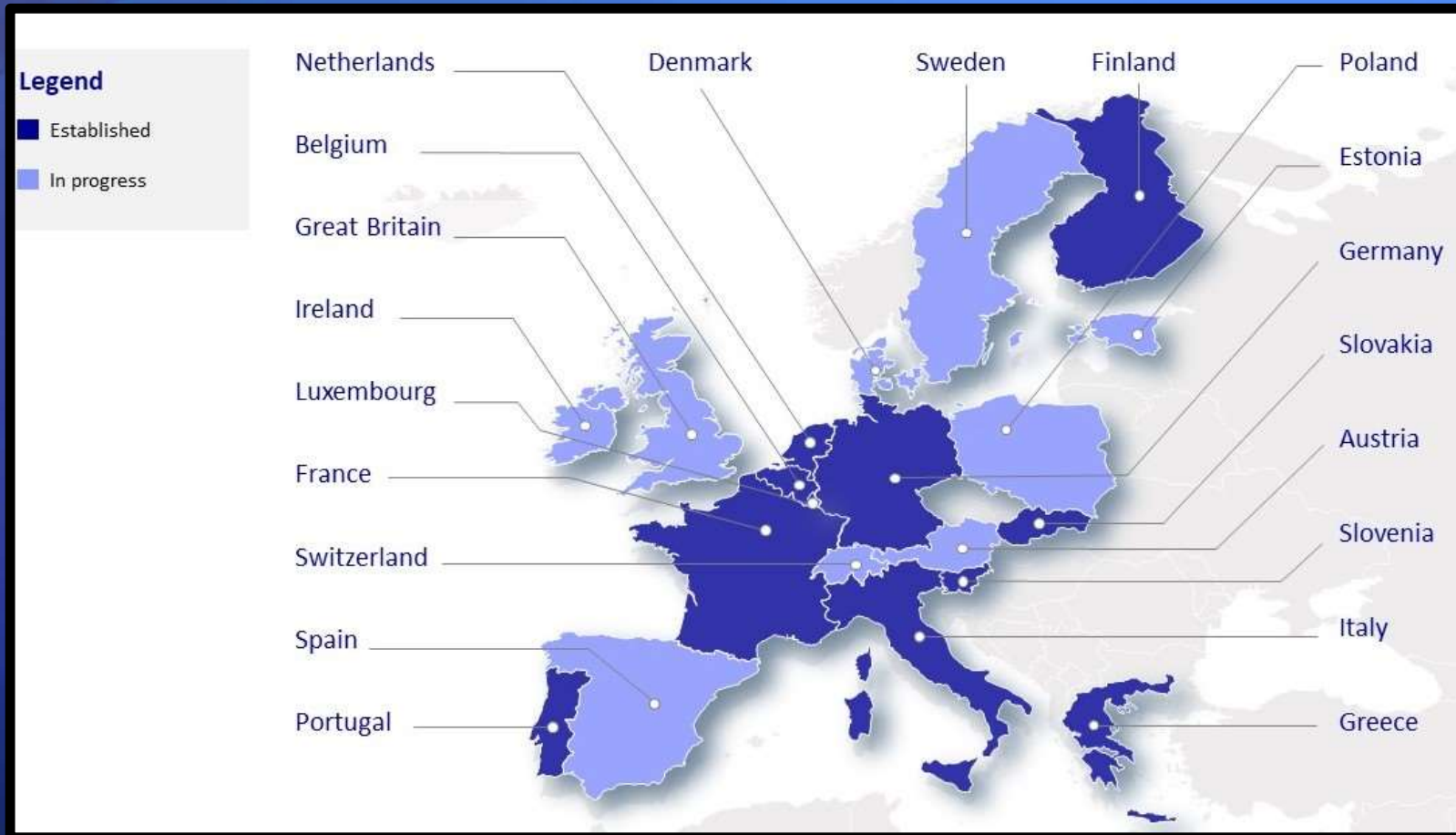
ARCHITECTURE



FEDERATED DATA SPACES



GAIA-X HUBS



GAIA-X HUBS

POLÍTICA DIGITAL

La pyme española se vuelca con Gaia-X: sus aportaciones al hub nacional superan las de las grandes corporaciones

Más de la mitad de las respuestas en la Manifestación de Interés para la constitución del hub español proceden de pymes y micropymes.

14 julio, 2021 - 13:03

 GUARDAR

GAIA-X HUBS

ESPACIOS DE DATOS ESTRATÉGICOS

- **Turismo**
- **Salut**
- **Movilidad**
- **Industria**
- **Otros**

IN THE PIPELINE

ADVISORY BOARD

MEMBERSHIP

LEAN DIAGNOSE

UNDER STUDY: AI TECHNOLOGY COUPONS

2022 BASELINE ACTIVITIES PREPARATION

CIDAI

Centre of Innovation
for Data tech
and Artificial Intelligence



CIDAI, above all, is a collaborative initiative aiming at maximizing synergies with existing stakeholders, willing to help any organization and open to new partnerships to accelerate innovation and adoption of AI in Catalonia.

Let's Talk!

info@cidai.eu
www.cidai.eu