

Künstliche Intelligenz aus der europäischen Perspektive: Der gemeinsame Weg zum Erfolg

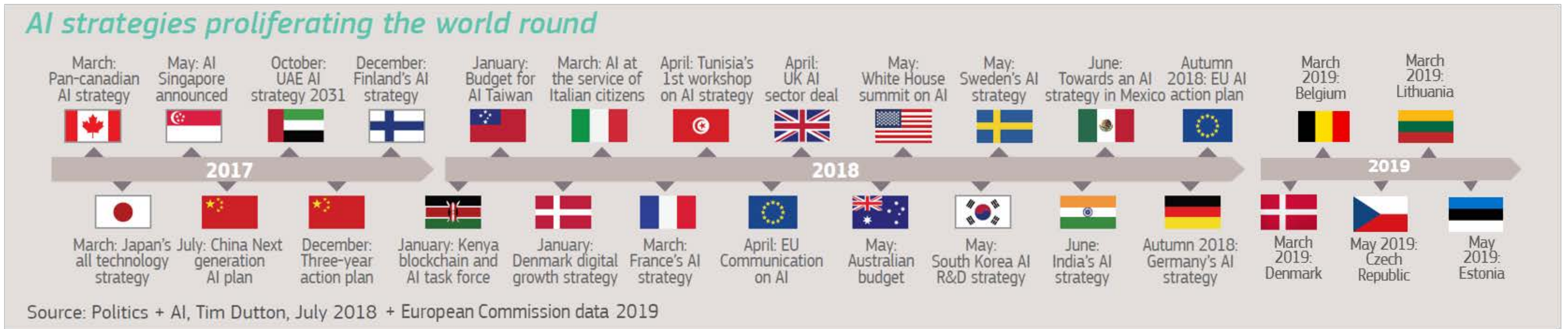
Jahreskonferenz Plattform Lernende Systeme

Berlin, 3. Juli 2019

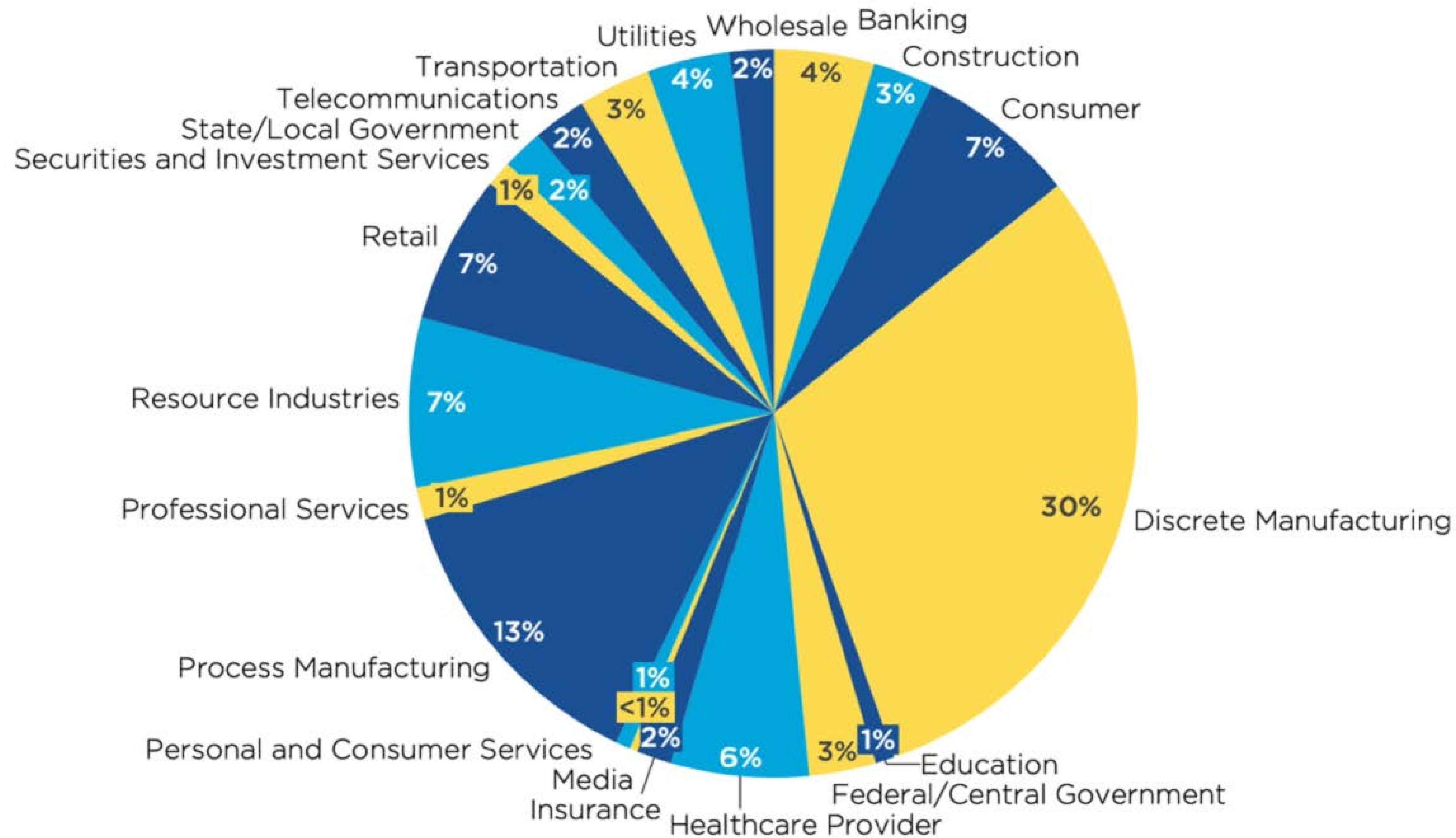
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European Commission – CONNECT
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World interest in AI



AI Opportunities exist across sectors



Source:
Zillner, S., Bisset, D.,
García Robles, A., Hahn, T.,
Lafrenz, R., Liepert, B.,
and Curry, E. (eds) (2019)
“Strategic Research, Innovation and
Deployment Agenda for an AI PPP:
A focal point for collaboration on Artificial
Intelligence, Data and Robotics”,
Brussels. BDVA – euRobotics



EU strengths



Excellent research centres



World-leading position in robotics



Strong business-to-business domain



Strong industrial and services sectors: automotive, healthcare, agrifood



Industrial data

European approach



Forefront of AI: boost industrial capacity & investments



**EU
Coordinated
plan**



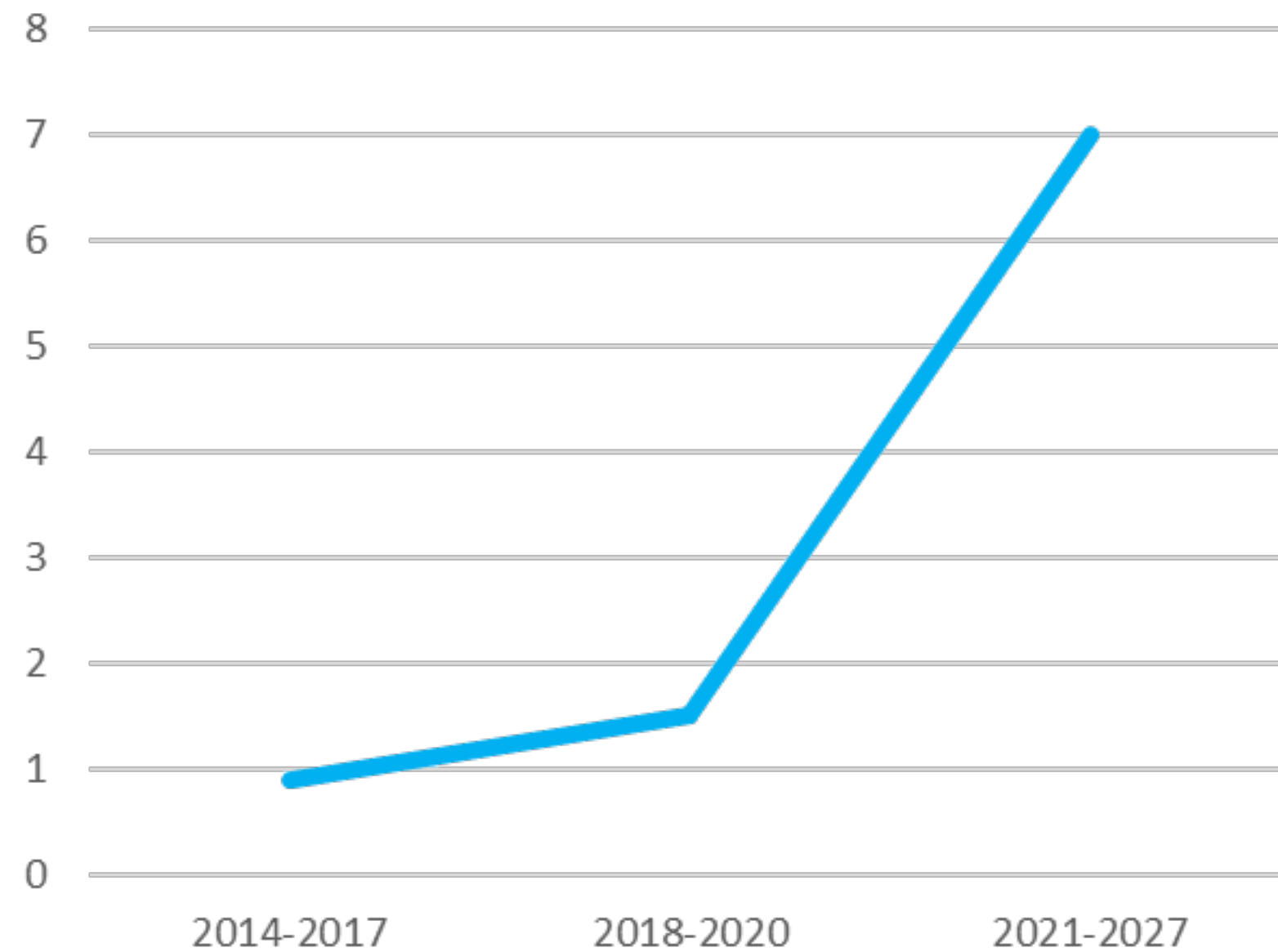
Human-centric & ethical



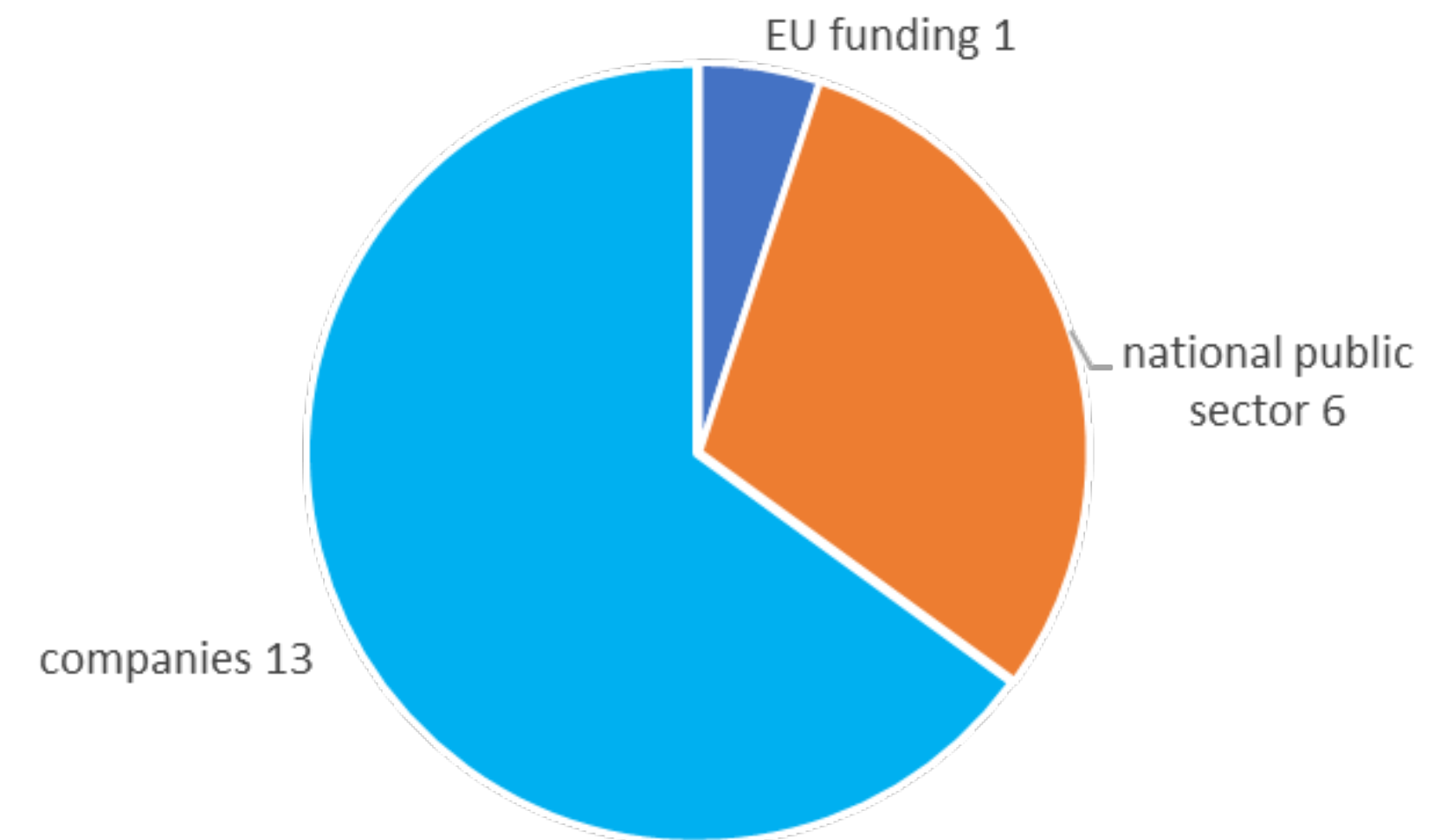
**High-level
Expert Group**

EU Coordinated Plan: Increasing & optimising investments

**Public EU funding for AI,
in billion euros**



**European Investment in AI:
target €20bn by 2025**



EU Coordinated Plan: harnessing excellence



Networks of European AI research excellence centres



World-reference testing facilities



Fostering AI take-up through Digital Innovation Hubs



Attracting talent and stimulating life-long learning



A European Data Space

BOOSTING EU'S TECHNOLOGICAL AND INDUSTRIAL CAPACITY: 2018 - 2020



€1.5 billion EC investments into AI in 2018-20

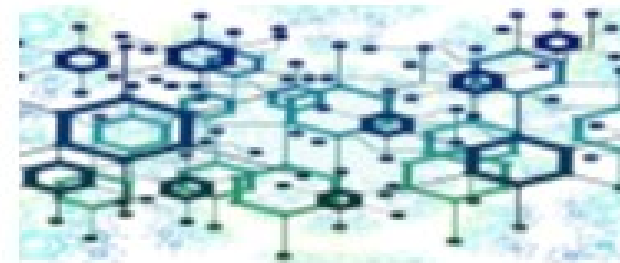
70% increase of annual investment



Basic and
industrial
research



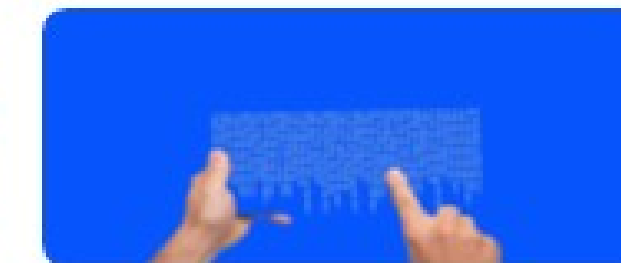
AI-on-demand
platform



Network of AI-
focused Digital
Innovation Hubs
(DIHs)



Strengthening
AI research
excellence
centres

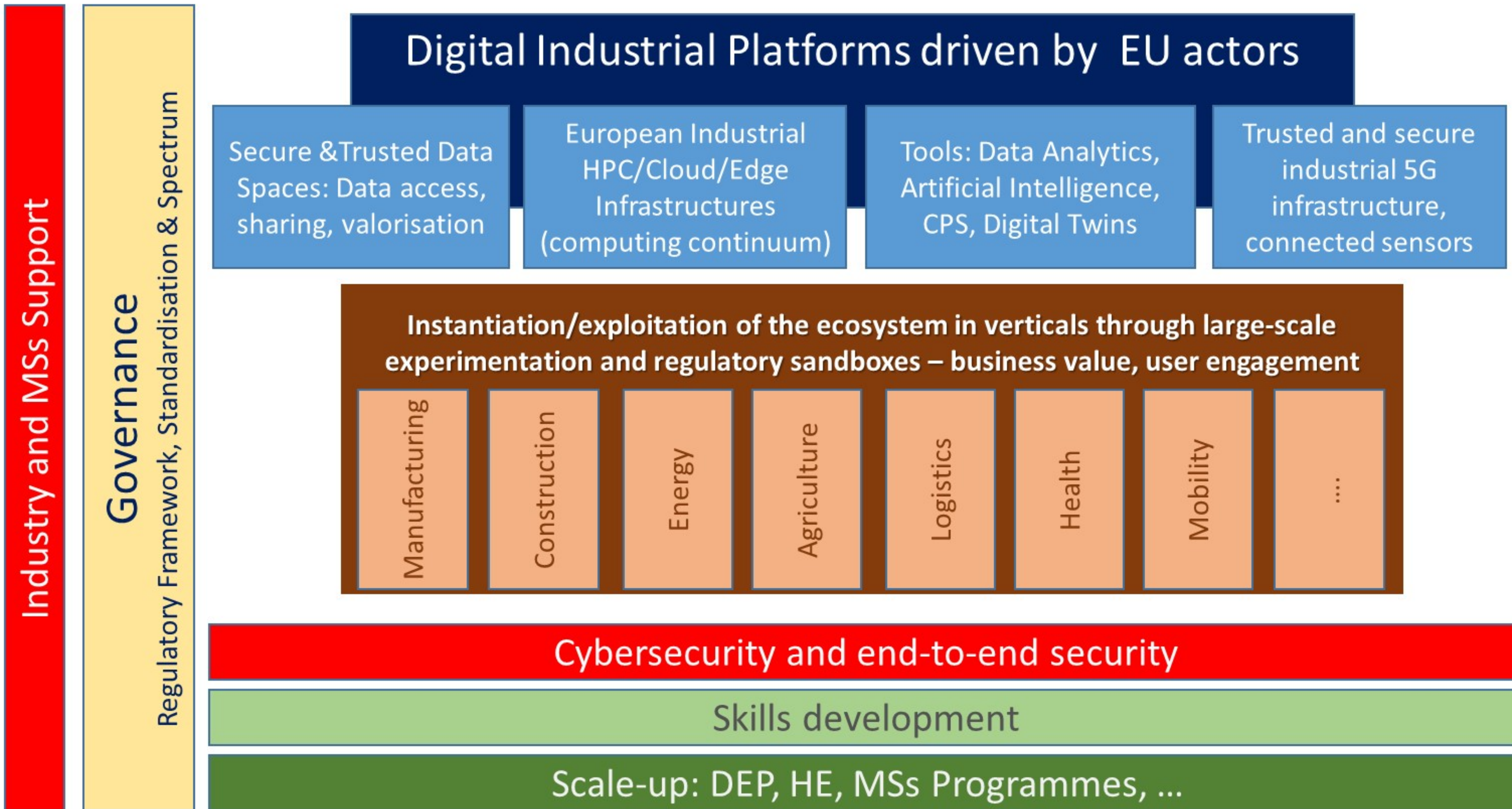


Setting up
industrial data
platforms

BOOSTING THE EU'S TECHNOLOGICAL AND INDUSTRIAL CAPACITY: BEYOND 2020

Increasing investments into AI
from €4-5 billion / year today
to €20 billion / year in the 2020s

Common European Industrial IoT and Data Ecosystem



Developed in the context of the Strategic Forum on IPCEIs and Strategic Value Chains - June 2019 -

Ethics & regulatory framework: High-Level Expert Group

52 members from:



Industry



Academia



Civil society

Interaction with European AI Alliance

Broad multi-stakeholder
platform counting over
2800 members to discuss
AI policy in Europe

To produce

- AI Ethical Guidelines released 9 April 2019
- Policy & Investment Recommendations, to be presented on 26 June 2019

Ethics & regulatory framework: Key requirements

Principles based on fundamental rights: to be continuously implemented & evaluated



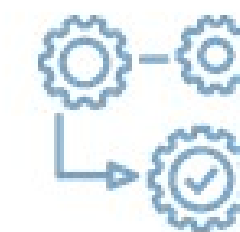
Human agency and oversight



Societal & environmental well-being



Technical Robustness and safety



Accountability



Privacy and data governance



Diversity, non-discrimination and fairness



Transparency



Ethics & regulatory framework: Assessment list



Assessment list to operationalise the requirements

- Practical questions for each requirement
- Test through piloting process to collect feedback from all stakeholders (public & private sector)

Official launch of piloting: 26 June – Stakeholder event

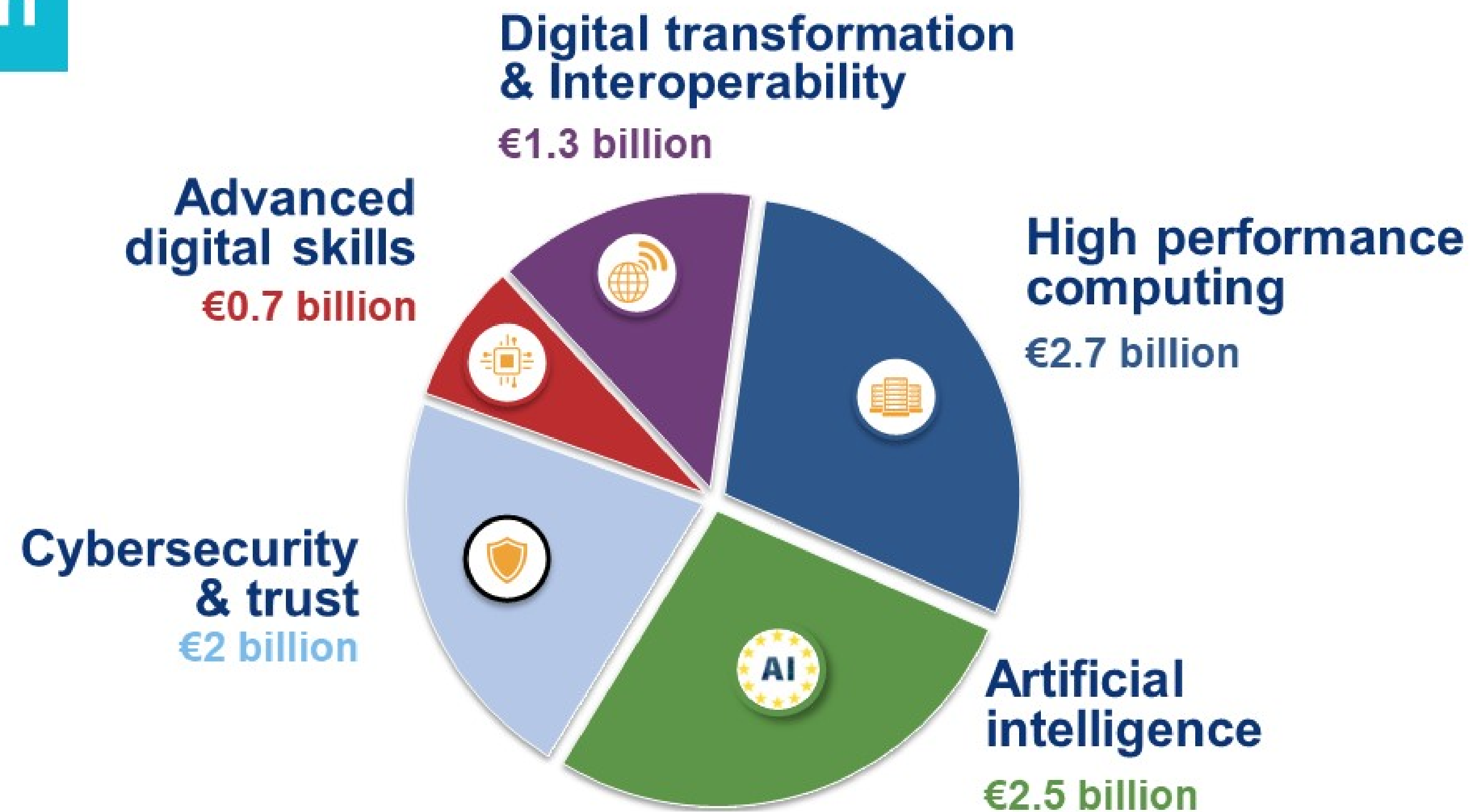
The Recommendations: Key Takeaways



1. Empower and protect **humans and society**
2. Take up a **tailored approach** to the AI market
3. Secure a **Single European Market** for Trustworthy AI
4. Enable AI ecosystems through **sectoral multi-stakeholder alliances**
5. Foster the European **data economy**
6. Exploit the multi-faceted role of the **public sector**
7. Strengthen and unite Europe's **research capabilities**
8. Nurture education to the **Fourth Power**
9. Adopt a **risk-based governance** approach to AI and ensure an appropriate regulatory framework
10. Stimulate an open and lucrative **investment environment**
11. Embrace a **holistic way of working**, combining a 10-year vision with a rolling action plan

Digital Europe Programme

**€9.2 billion
in total**



Support to Digital Innovation Hubs under the Digital Europe Programme



EU support for one DIH
per region



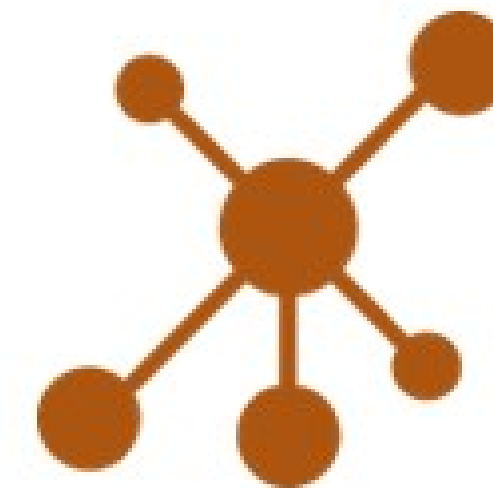
Co-investment with
Member States /
Regions / private



Focus on SMEs and
public services



Focus on HPC, AI,
Cybersecurity and
Digital Skills



A strong European
network of Digital
Innovation Hubs

