



# AI in the Public Sector Across the EC

*13th of October 2023  
Dublin*

# Europe's Digital Decade: digital targets for 2030

## Government

**Key Public Services** - 100% online

Everyone can **access health records online**

Everyone can use **eID**



- Key public services online – they also need to be aligned with EU values and principles; they need to be **interoperable**
- The public sector needs to become more **data-driven**, to improve the capability of developing policies and services through the management, sharing and use of data



# Current Policy Context

Europe's digital future will be enabled by a **data-driven economy** and the use of **Artificial Intelligence**, fully respecting EU values and regulations

- The European Commission wants to ensure the **public sector** is able to keep pace with new technologies and benefit from **innovation**
- **'Government as a Platform**, as a new way of building digital public services, will provide a holistic and easy access to public services with a seamless interplay of advanced capabilities, such as data processing, AI and virtual reality' (2030 Digital Compass: the European way for the Digital Decade)
- **Interoperability** is key in the public sector, to avoid further fragmentation and allow easy and effective sharing and reuse of solutions (Interoperable Europe Act).
- Opportunity to develop the **European GovTech market**, with a strong focus on SMEs and start-ups, in part through public procurement
- One crucial ingredient for supporting the European GovTech ecosystem across borders is **interoperability**, which allows start-ups to sell their products and services more easily across the EU

# AI in the EU policy context

- White Paper on Artificial Intelligence - A European approach to Excellence and Trust
- Ethical guidelines for Trustworthy AI
- Coordinated Plan for AI – 2021 review (**‘Making the public sector a trailblazer for using AI’**)
- 2021 Proposal for an AI Act



# INTERVENTION LOGIC along the *INNOVATION PROCESS*

## *Influencing factors*

- CITIZEN NEEDS
- STAKEHOLDERS CONTEXT
- PUBLIC SECTOR NEEDS
- REGULATORY FRAMEWORKS
- OPPORTUNITIES
- FUTURE TRENDS
- AI TRAINING

## Innovation PHASES

**Investigation and Instantiation of NEEDS**

**SotA and Landscaping**

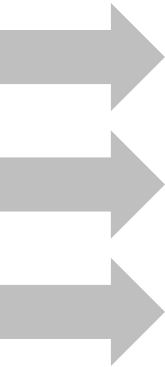
- DEFINITION of the SOLUTION wrt the needs to be addressed
- Identification of possible Solution & Design
  - Technology selection, "Is AI suitable?"
  - Expected Impact
  - Legal assessment
  - Risk assessment

- TESTING AND EXPERIMENTATION**
- Adaptation of existing solutions
  - Prototype development
  - Piloting, and validation
  - Impact assessment

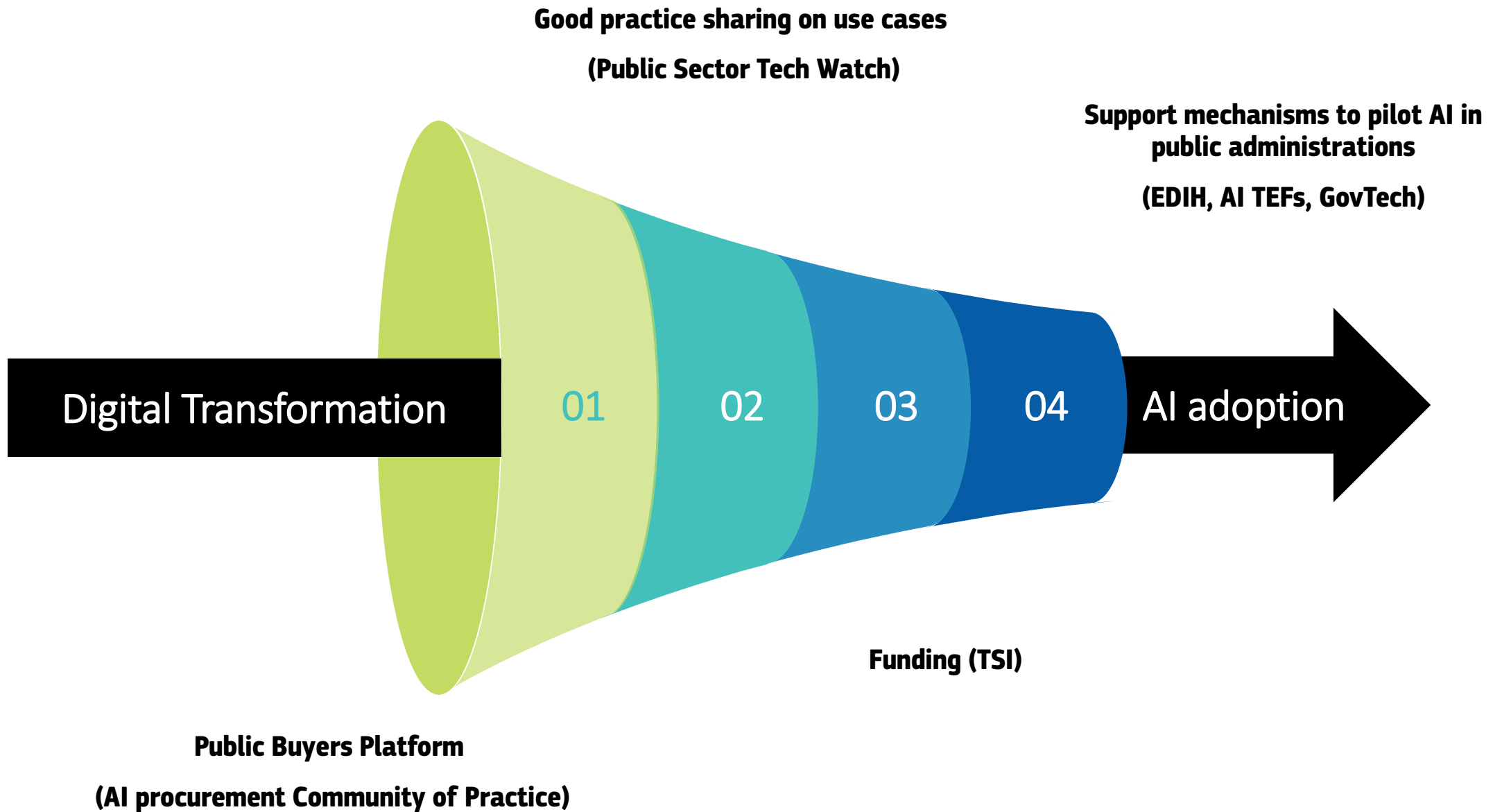
- IMPLEMENTATION**
- Initial deployment
  - Adaptation
  - Scaling of the final AI-based solution

**ADOPTION and wider DEPLOYMENT**

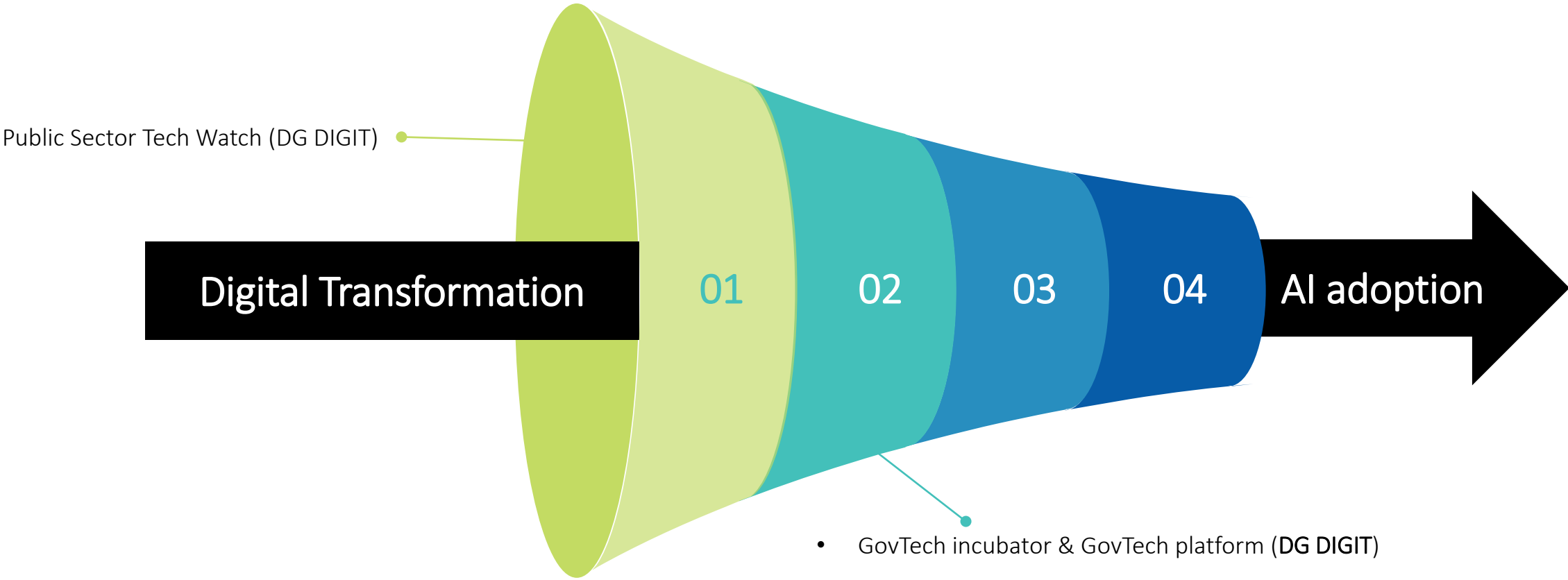
Replication & Scaling



# EC initiatives to support the MS in the implementation of AI in public sector



# Areas of intervention of EC initiatives along the innovation process



# Public Sector TECH WATCH



interoperable  
europe

joinup Interoperable Europe interoperability solutions

### Public Sector Tech Watch

+ Join this collection

Overview **Cases** Stories Reports & Resources News & Events

#### Cases

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joinup Interoperable Europe interoperability solutions

### Public Sector Tech Watch

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#### Stories

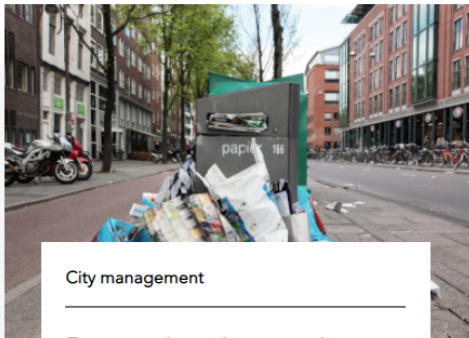
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# AI in the Public Sector – Use cases

## Algorithmic systems of Amsterdam

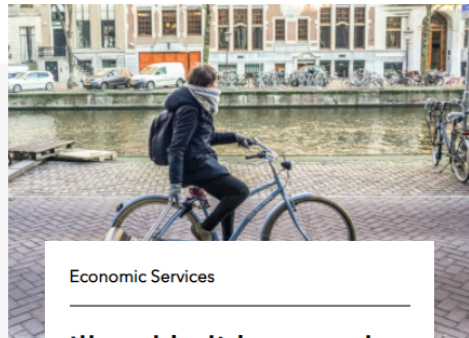
Learn about the use cases where we currently utilise algorithmic systems as part of our city services.



City management

### Reporting issues in public...

When someone encounters rubbish or a maintenance issue on the street or in a park, they can report this to the municipality via an online reporting system. A dangerous traffic situation or disturbance from people or cafe's can also be reported.



Economic Services

### Illegal holiday rental housing...

Amsterdam has limited living space; both for citizens and visitors. If a citizen wants to rent out their home or houseboat to tourists, they need to meet certain requirements. For example, they can do so for a maximum of 30 nights per year and a maximum of 4 people at a time. They



Economic Services Departments

### Automated parking control

In Amsterdam, the number of cars allowed to park in the city is limited, keeping the city liveable and accessible. The municipality checks whether a parked car has the right to be parked, for example, because parking fees have been paid via a parking meter or app, or because the

### Other use cases:

- Fraud detection (e.g., allowances)
- Traffic surveillance for quick response (e.g., cameras in tunnels)
- Monitoring of patients for quick reaction and provision of assistance (e.g., for informing doctors when an irregularity is spotted)
- Mapping of buildings (e.g., for spotting undeclared properties)
- Smart policy making (e.g., elaborate collective information) - local digital twins
- Cyberattacks (e.g., detection and resolution of malware software)
- Etc.

# GovTech Incubator

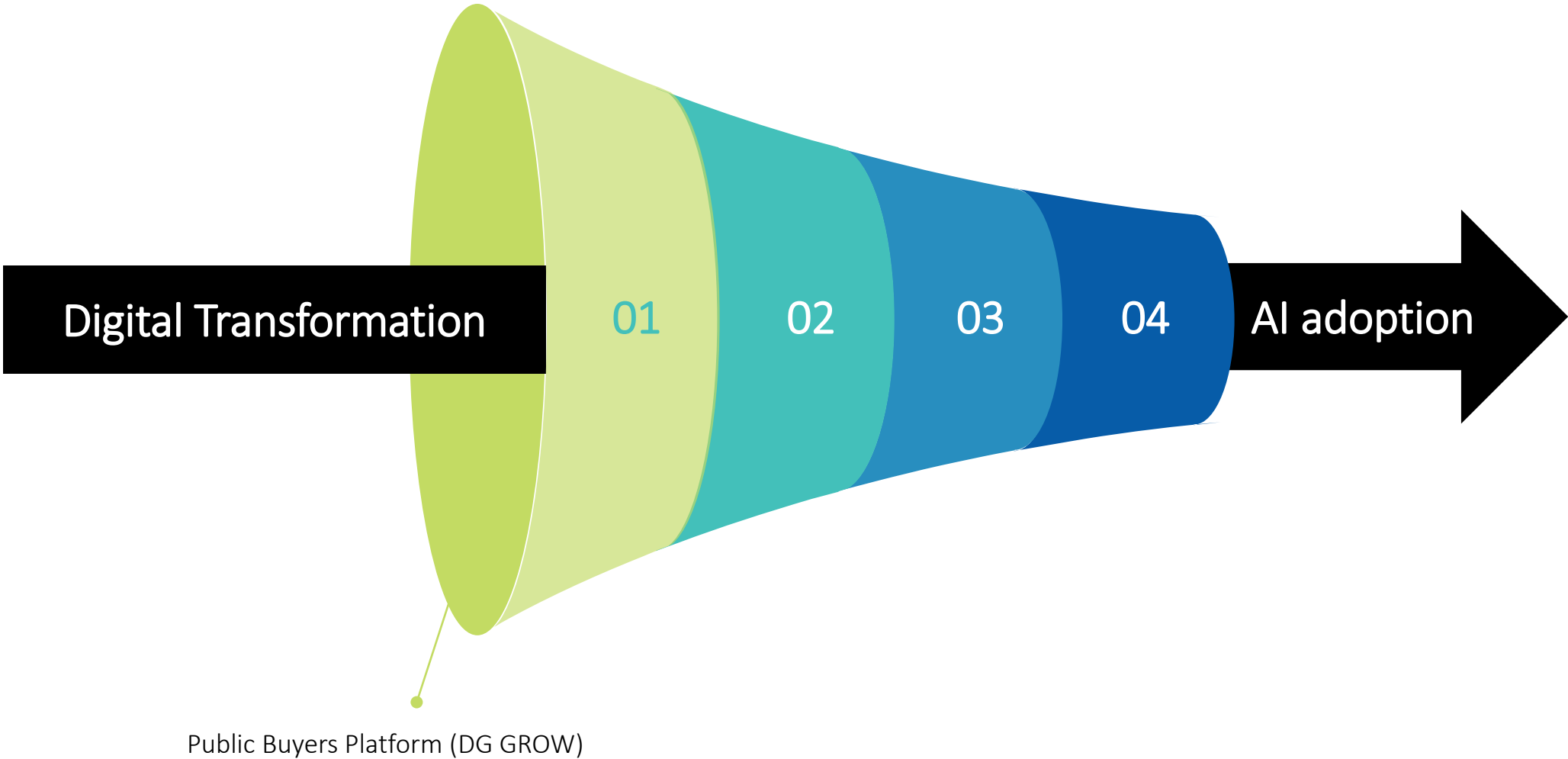
- ④ Cooperation framework for Member States with 50% co-financing
- ④ Promoting innovative digital government solutions, interoperability by default and open-source
- ④ Ensure cross-border collaboration through experimentation
- ④ Pilots done through variable scale geometry (involving 2-3 partners)
- ④ Encourage participation of startups (through innovative procurement or sub-granting)

# How is it done?

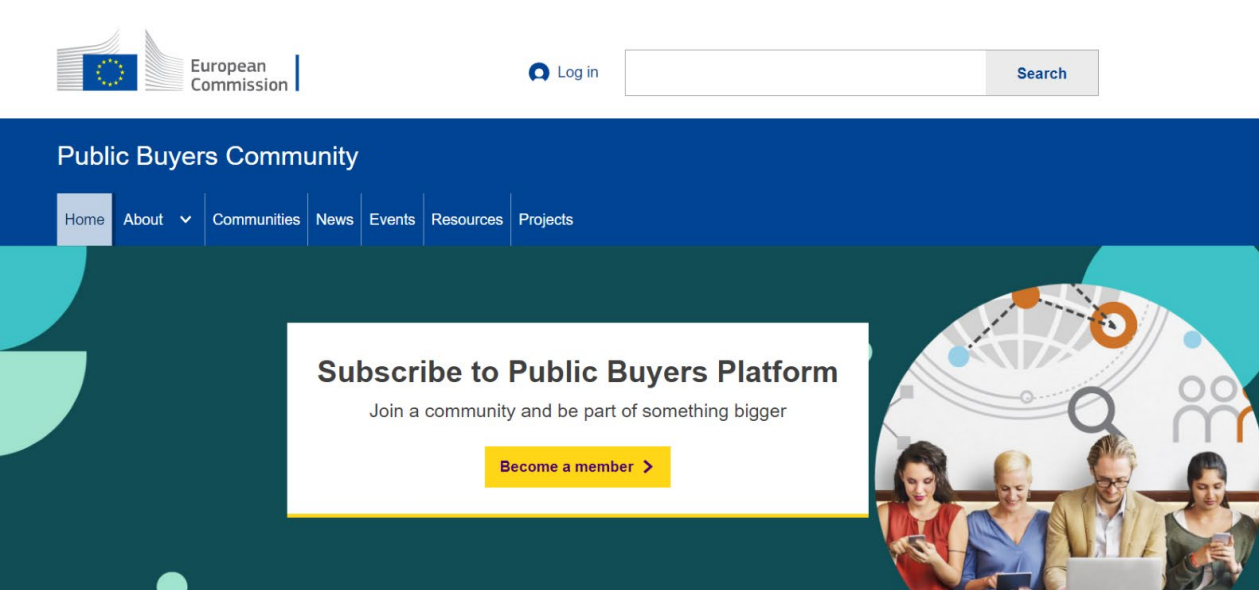
- ① Via a 4 year Framework Partnership Agreement (FPA) between the European Commission and a selected consortium
- ② Based Action Plan covering the period of the FPA (consortium already selected more than 10 partners from 15 countries)
- ③ 1<sup>st</sup> phase of financing through Specific Grant Agreement for the first 2 years of the Action Plan
- ④ 3 Million Euros in funding co-financed at 50%

*Follow what is happening on Joinup  
[Innovative Public Services](#)*

# Areas of intervention of EC initiatives along the innovation process



# Mission of Public Buyers Community Platform



1. **Connect** - Empower public buyers and those working in public procurement to join together and connect with the European Commission.
2. **Inform** - Foster the exchange of cutting-edge market intelligence and know-how on public procurement.
3. **Collaborate** - Encourage joint action and systematic collaboration in public procurement.
4. **Focus** - Support the use of public procurement as a gateway to digital, green and social transition pathways.

# Communities of Practice

## Public Buyers Community

Home About ▾ Communities News Events Resources Projects Members Discussions

Home > Communities

## Communities

Check out the different communities. Find a community that suits your profile and area of expertise. Subscribe and apply to join.



9 members

### Central Purchasing Bodies (CPB) Network

The CPB Network is a European network of national CPBs operating within and outside of the EU.



JOINED

66 members

### Procurement of AI

Support public buyers in procuring AI-enabled solutions that are trustworthy, fair and secure.



4 members

### Network of Competence Centres

Network of Competence Centres aims to develop international bonds between competence centres by promoting sharing, collaboration and learning from one another



# Procurement of AI

Support public buyers in procuring AI-enabled solutions that are trustworthy, fair and secure

## Goals and Objectives

- Declare the information requested in [the contractual clauses](#) in a standardised format to support interoperable and automated exchange
- Draft a standard for public procurement of AI and algorithmic systems that can be used by public authorities across the European Union
- Peer review [these AI procurement clauses](#) with a European audience



# Next Steps

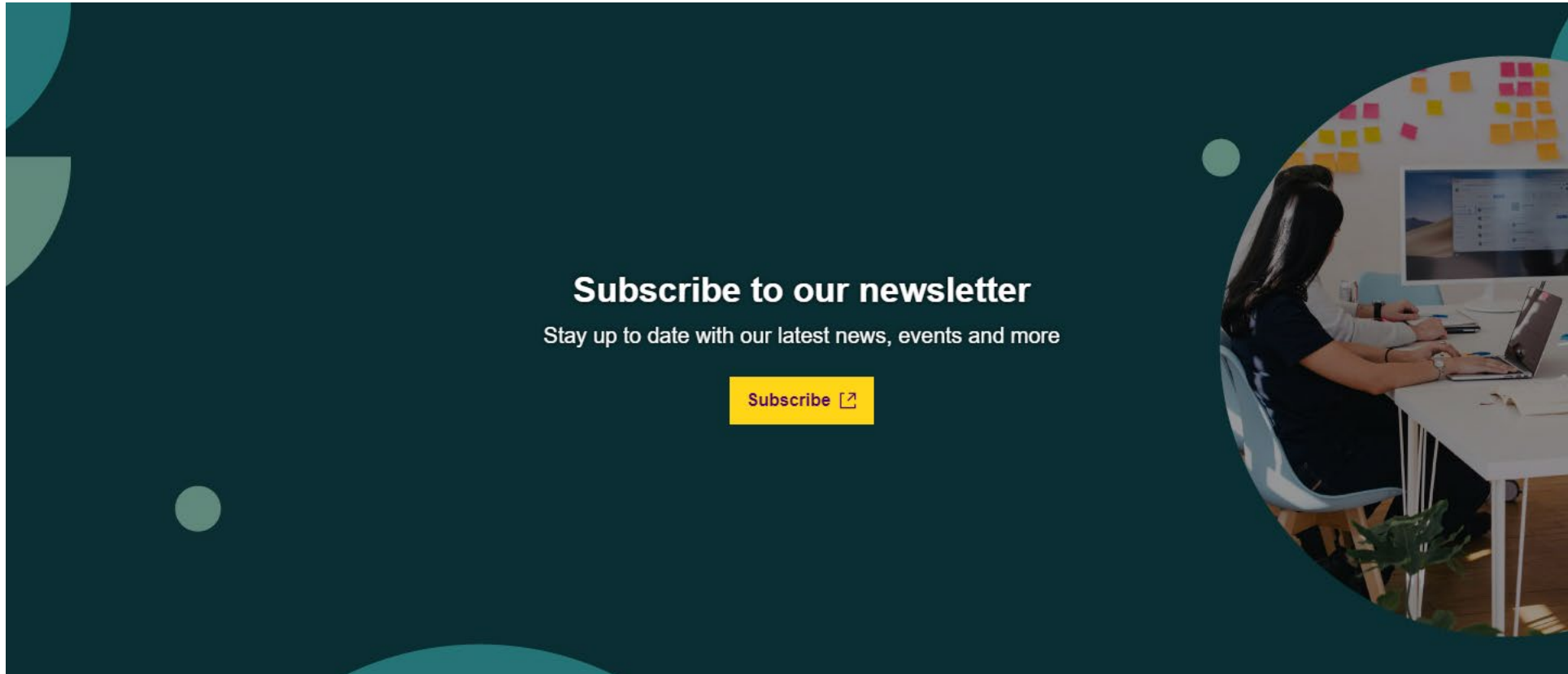
**Validation:** The procurement clauses will be updated using the input that is collected during two roundtables. The updated version will be circulated with all the participants for written validation.

**Publication:** After validation, the AI clauses will be translated in all EU languages and these will be made publicly available through the Digital Public Buyers Platform and the Living-in.EU website.

And then, **TESTING on actual cases!** Expected: Octobre/November 2023



# Stay tuned!



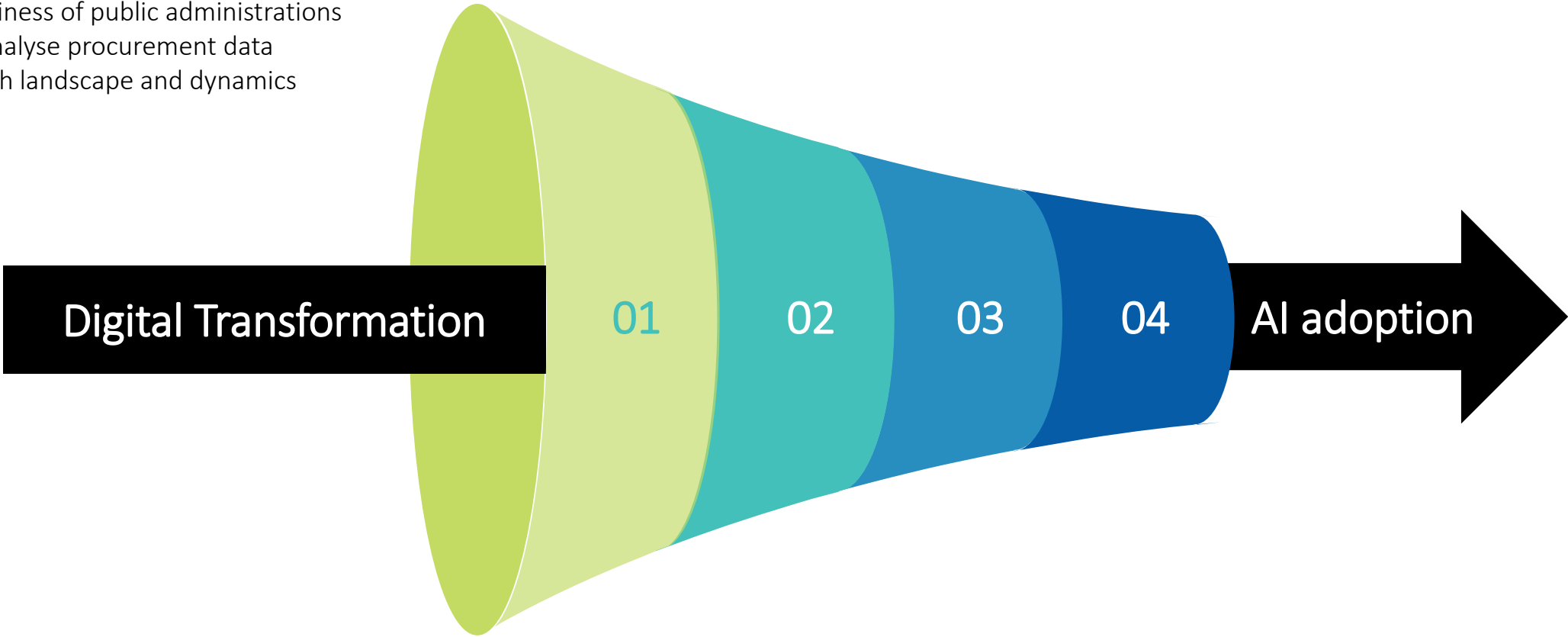
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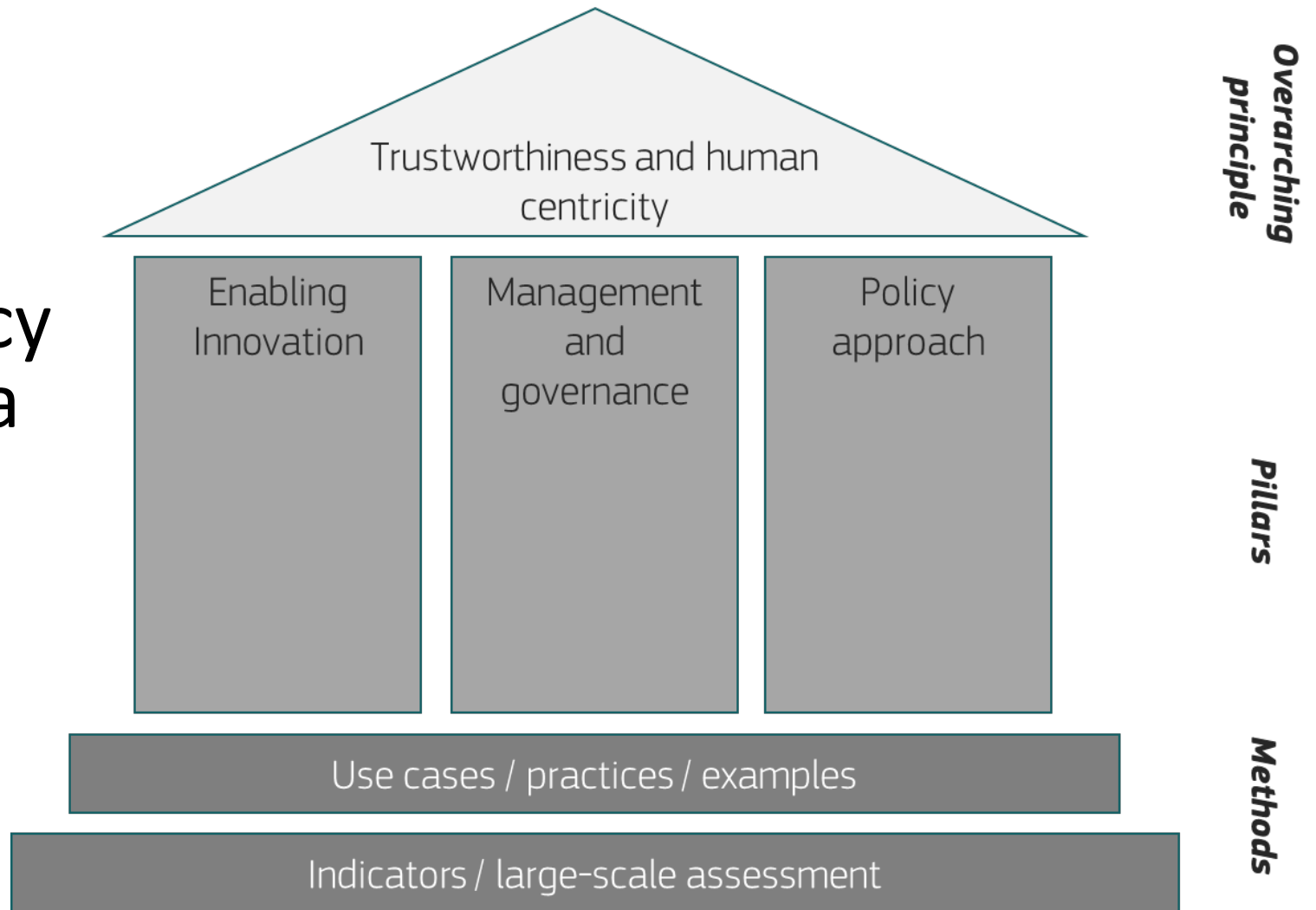
# Areas of intervention of EC initiatives along the innovation process

## Joint Research Centre (JRC)

- Trustworthy AI in the public sector
- European Centre for Algorithm transparency
- AI for Interoperability report
- AI readiness of public administrations
- AI to analyse procurement data
- GovTech landscape and dynamics
- ...



# Science for policy research agenda



Source: Luca Tangi, Peter Ulrich, Sven Schade and Marina Manzoni (*forthcoming*). Taking stock and looking ahead - developing a science for policy research agenda on the use and uptake of AI in public sector organizations in the EU

# An example



Join our community!



**Science for Innovations in Public Governance**

Last update: 1 week ago 14 members 0 Solutions

Welcome! Our research Resources Members

<https://joinup.ec.europa.eu/collection/sipg>



# Thank you



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