



What factors influence perceived AI adoption by public managers?

interoperable
europe

What factors influence perceived AI adoption by public managers?



Background



Study Design



Results



Conclusions and policy recommendations

Background

- EU wants to become “global leader” in trustworthy AI
- After pilot phase there now more extensive implementation
- Challenges and barriers



Defining AI

“the ability of a machine to display human-like capabilities such as reasoning, learning, planning and creativity. AI applications can be found in, for instance: virtual assistants, image analysis software, search engines, speech and facial recognition systems.”

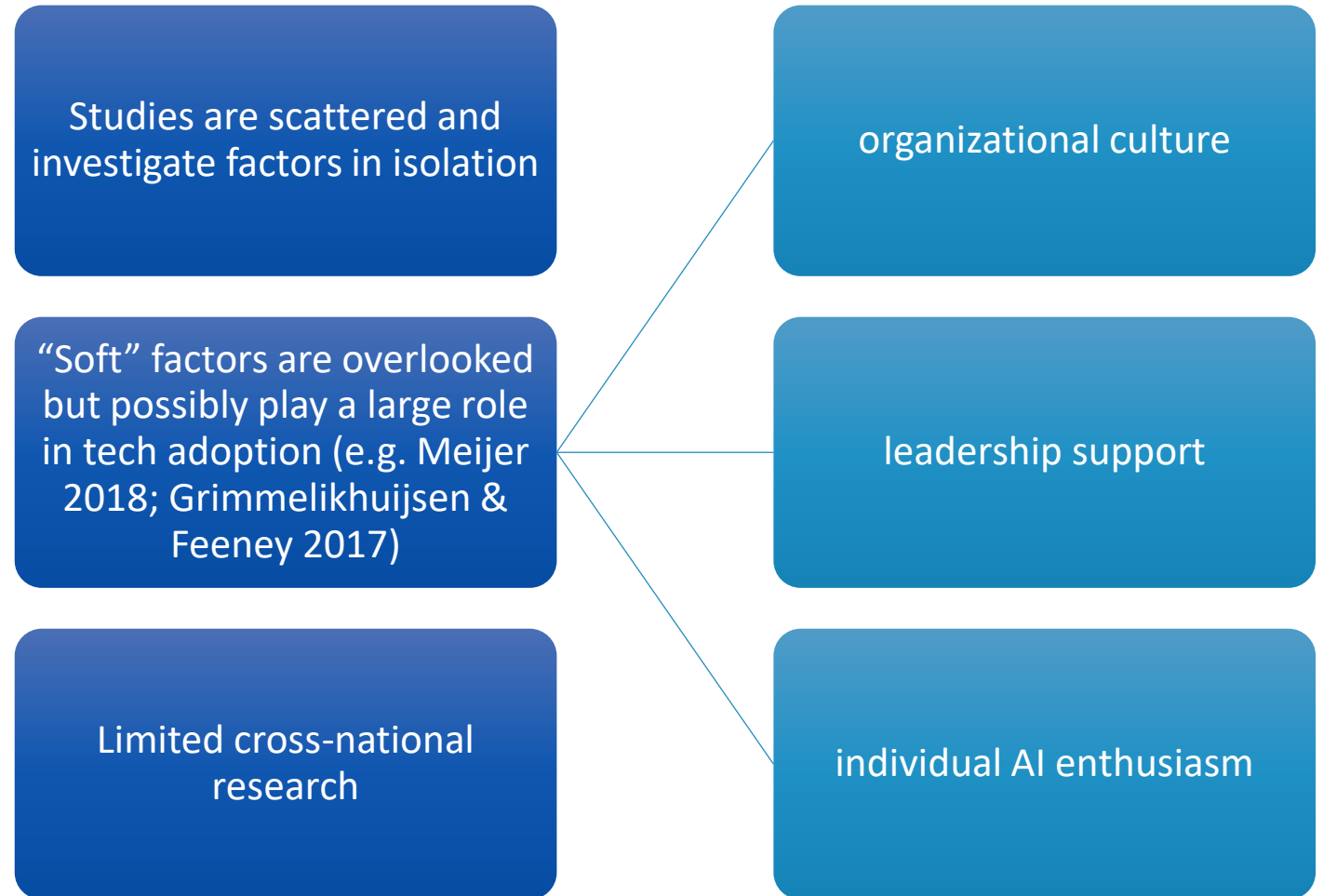


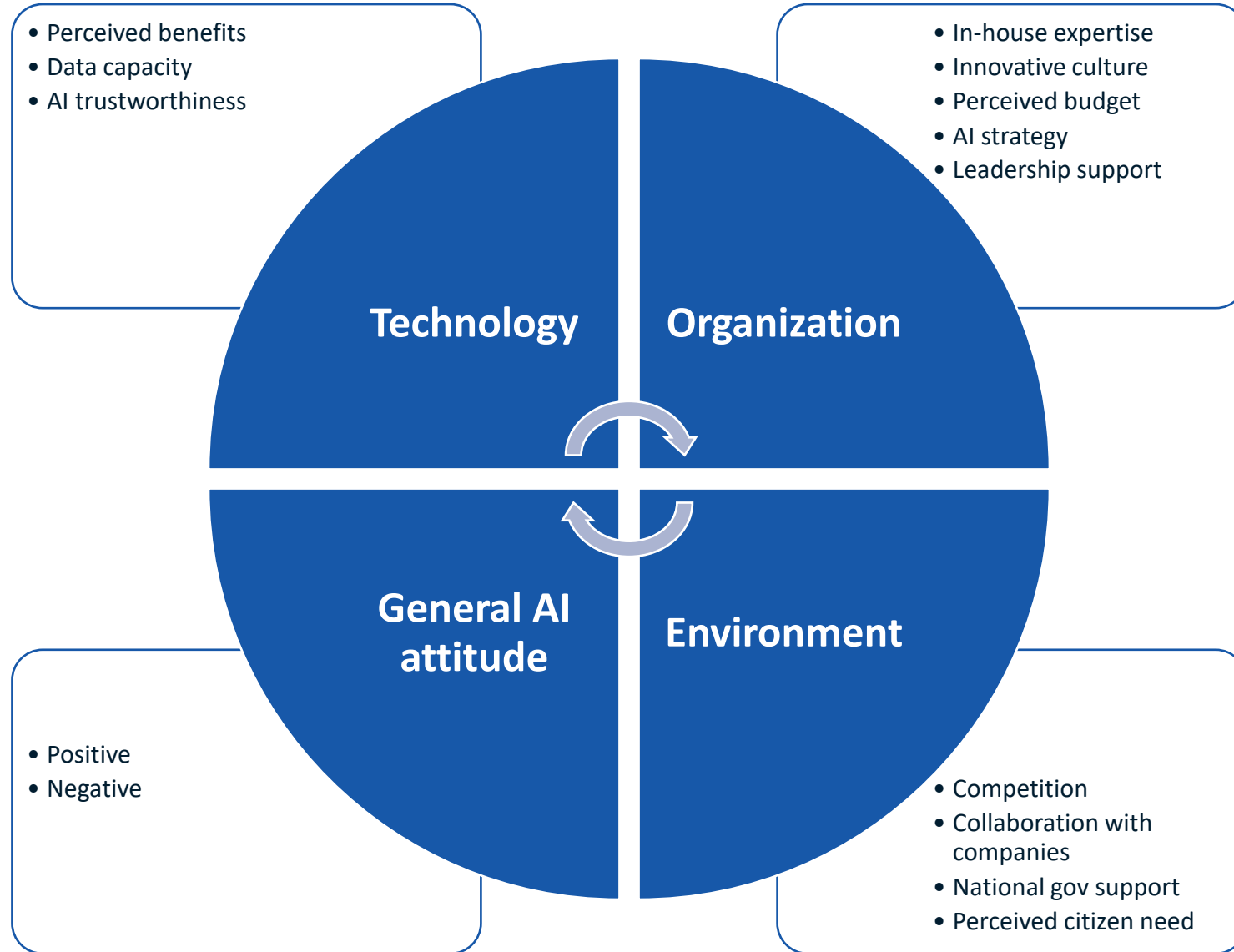
Goals

- Identify main challenges, drivers
- Add policy and scientific evidence
- Develop recommendations



What are gaps in the current evidence?





Study design

Seven countries: France, Germany, Spain, Netherlands, Poland, Austria, Sweden

Focus on perceptions of public managers (n=576)

Questions about a comprehensive set of factors from the TOE framework

Data collection through Dynata

Measuring AI adoption

Where the questions say “organisation”, you can also think about your team or department when answering the questions if you feel more confident doing so.

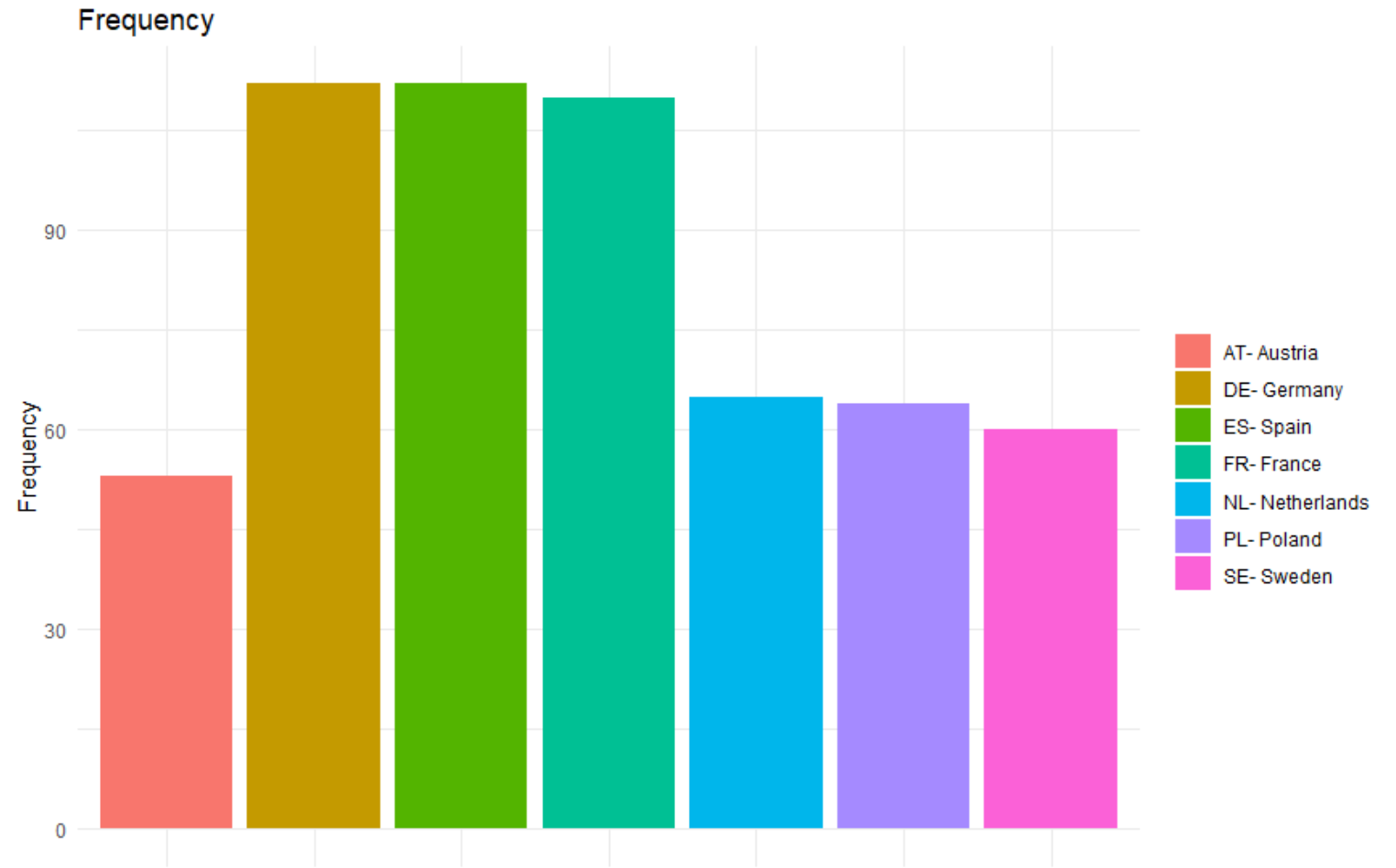
We have adopted AI in... / We are planning to use AI in... (scale: 1-7)

...service
delivery

...internal
operations

... policy
decision-making

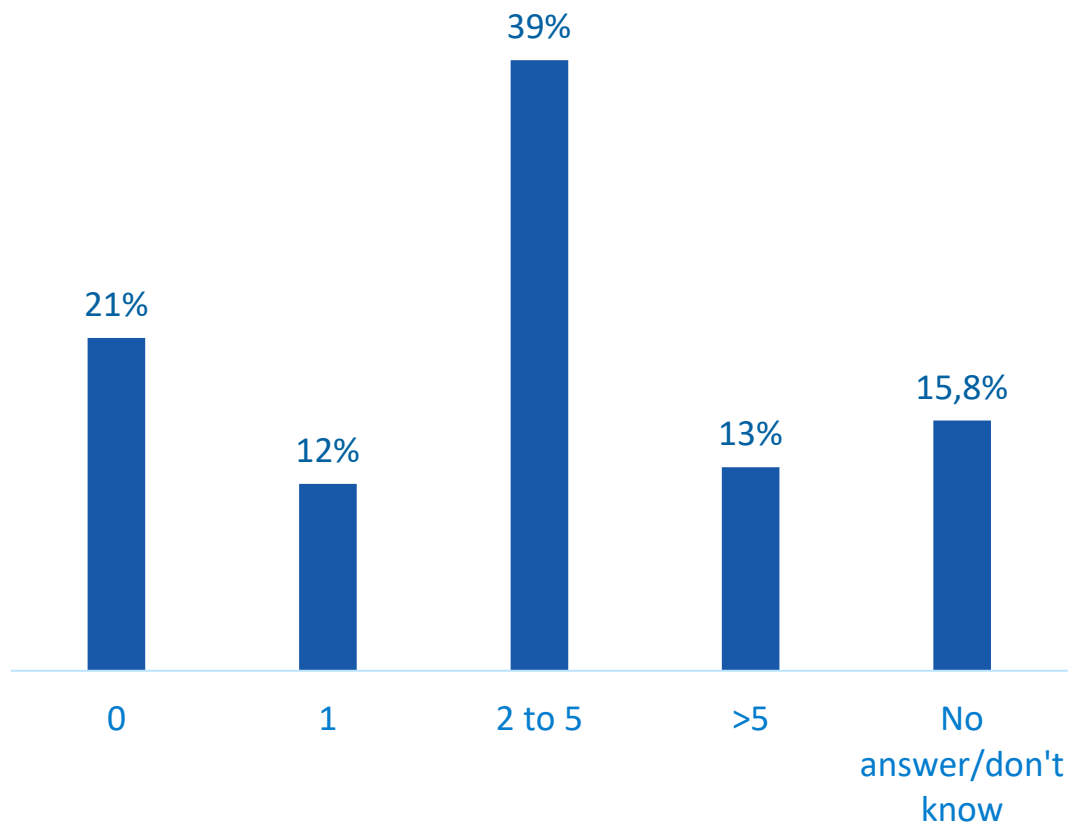
Sample
(n=576)



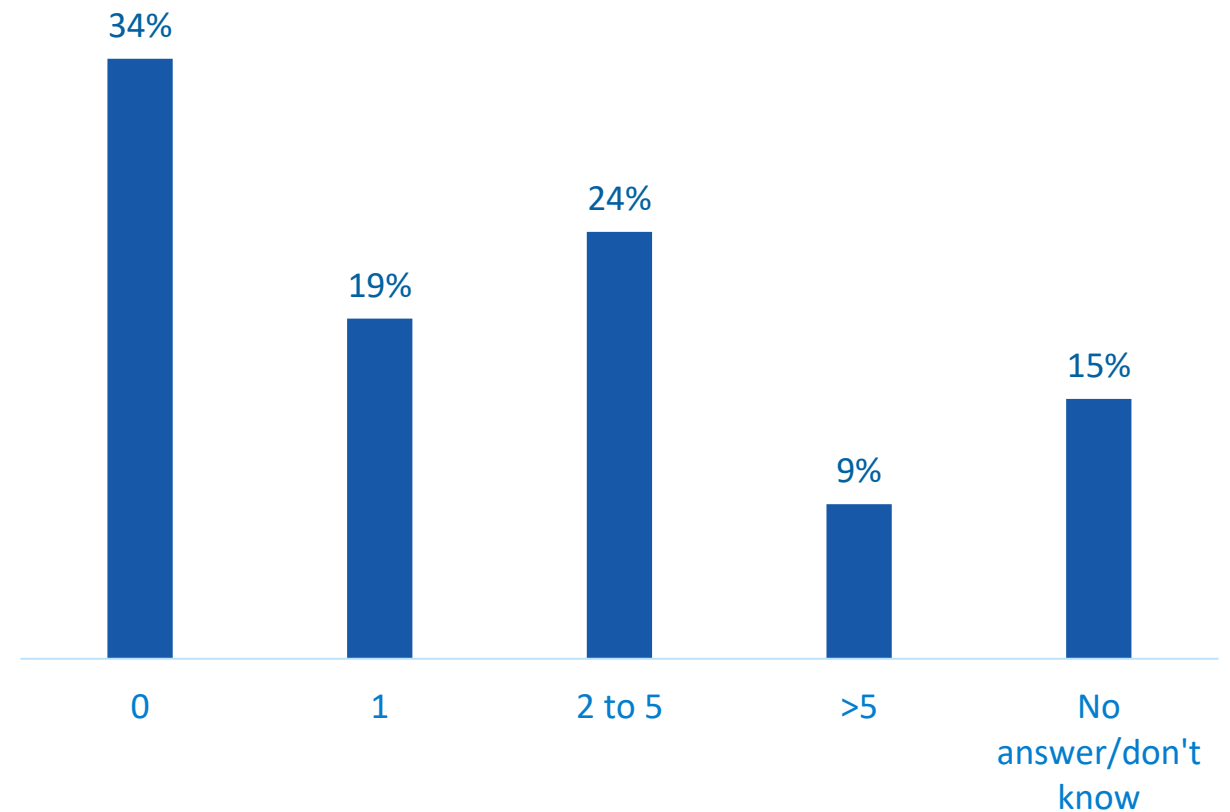
Planned and implemented AI projects

Most public managers have implemented AI projects, or are planning at least one

Number of planned AI Projects

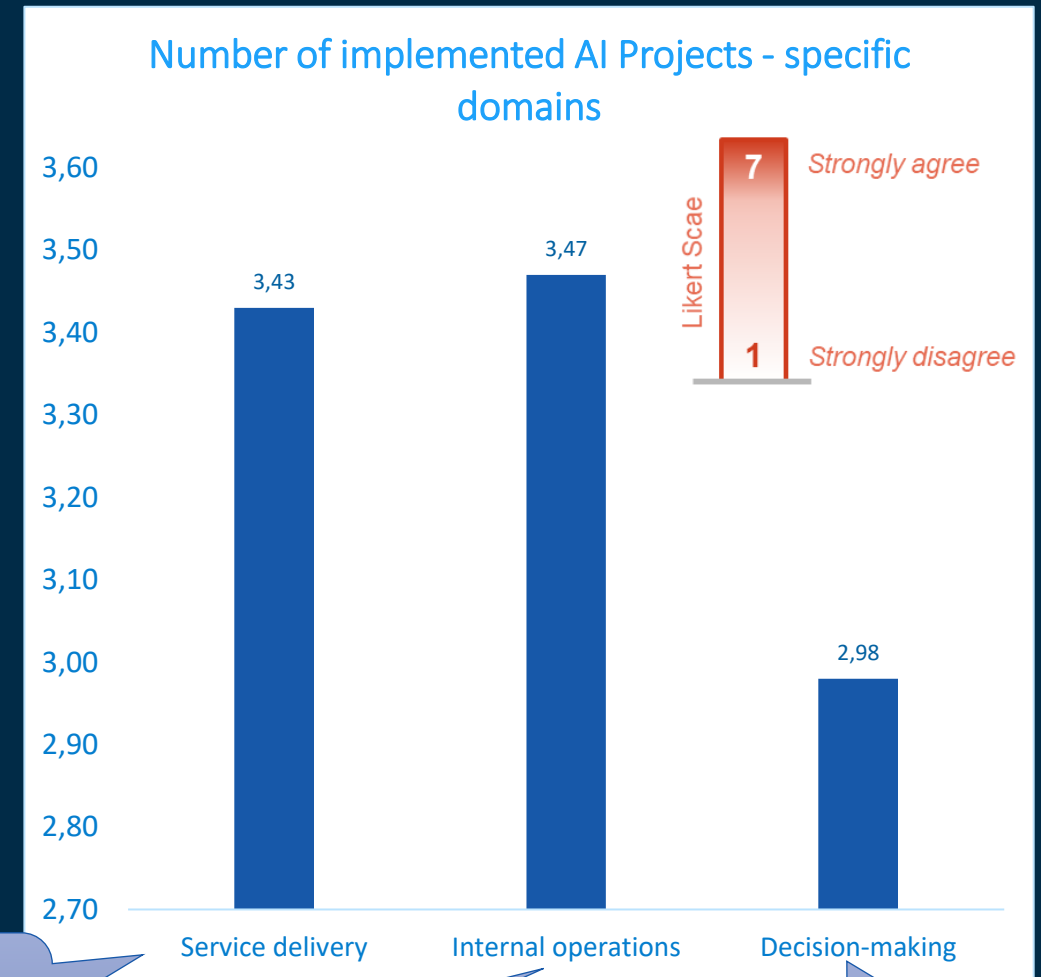


Number of implemented AI Projects



Type of implemented AI projects

Less projects in policy decision-making than in other areas



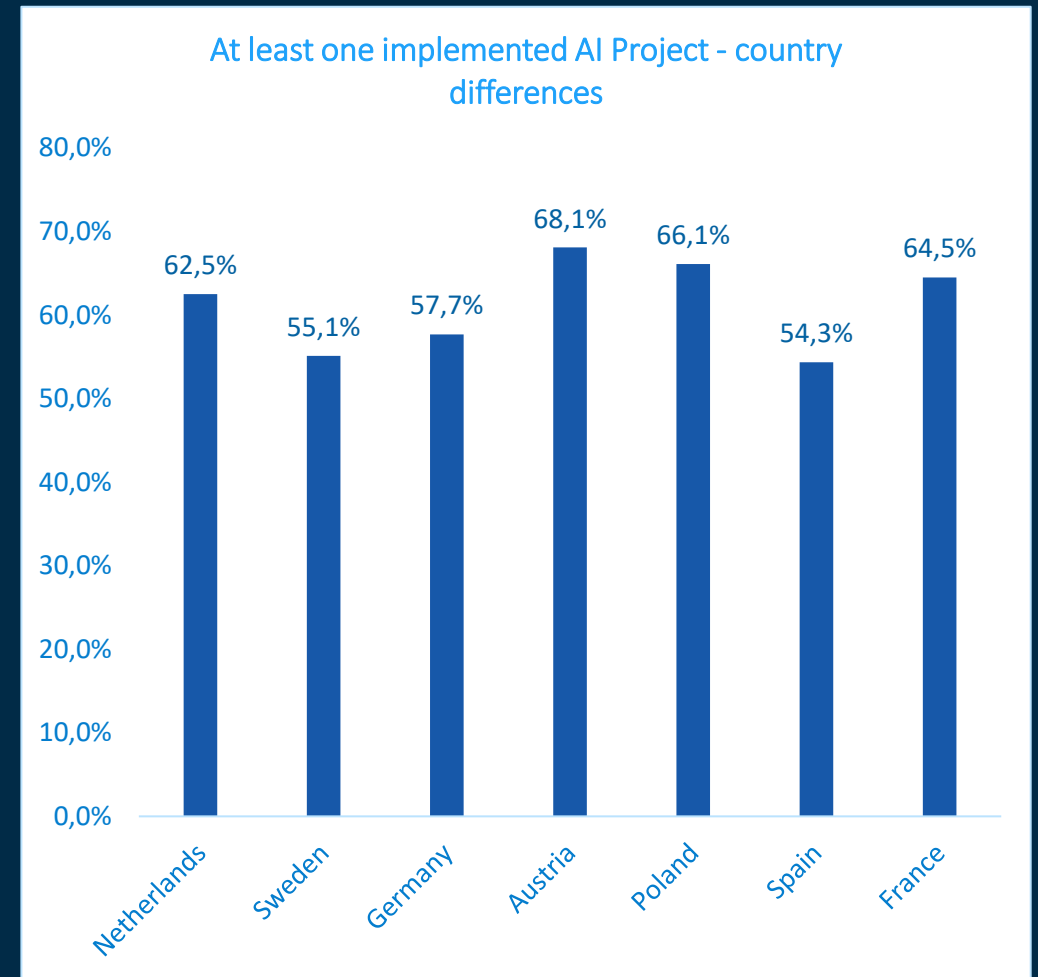
e.g. chatbots

e.g. fraud detection, image recognition

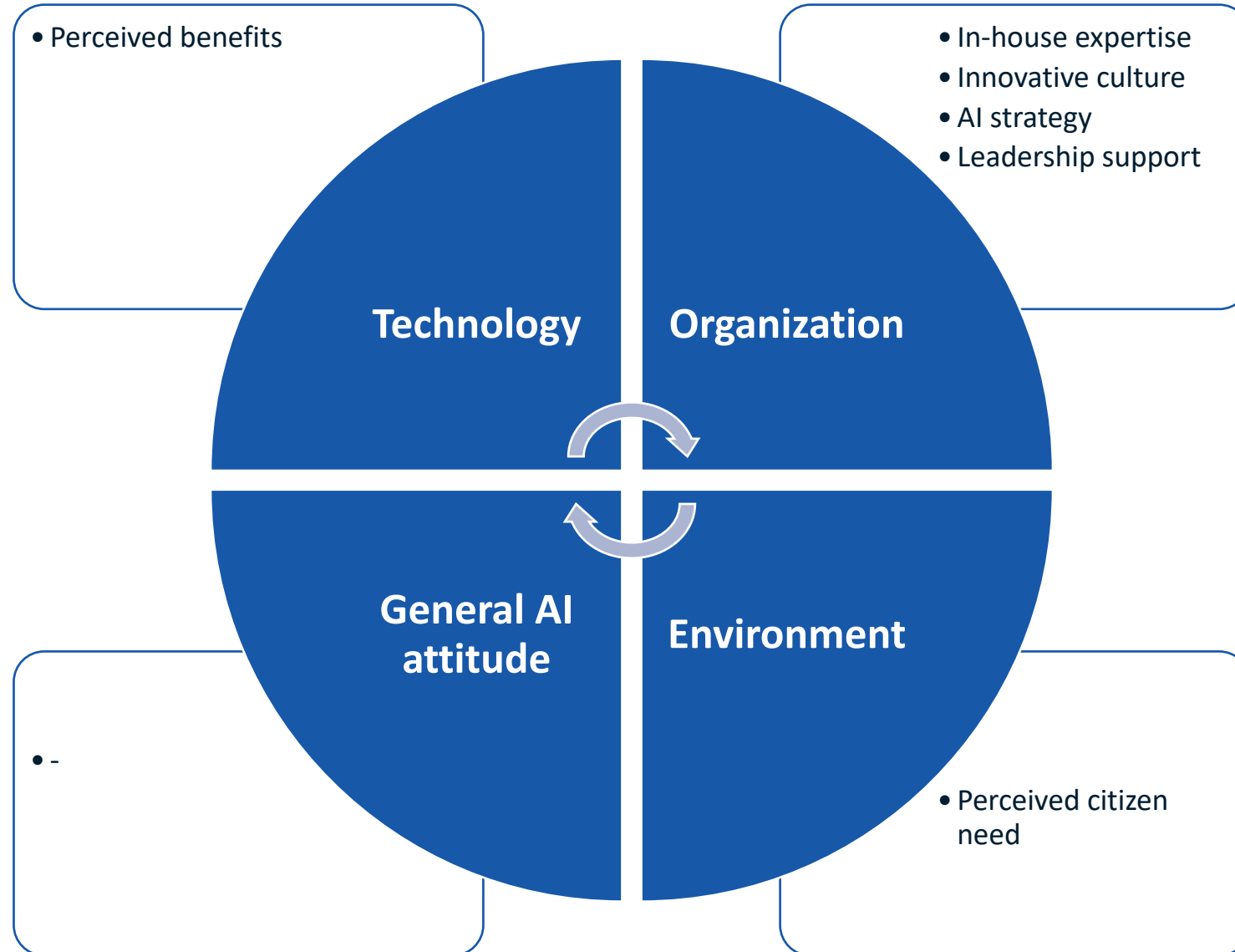
e.g. dashboard, data-driven

Country differences

There is a limited difference between countries in implemented projects

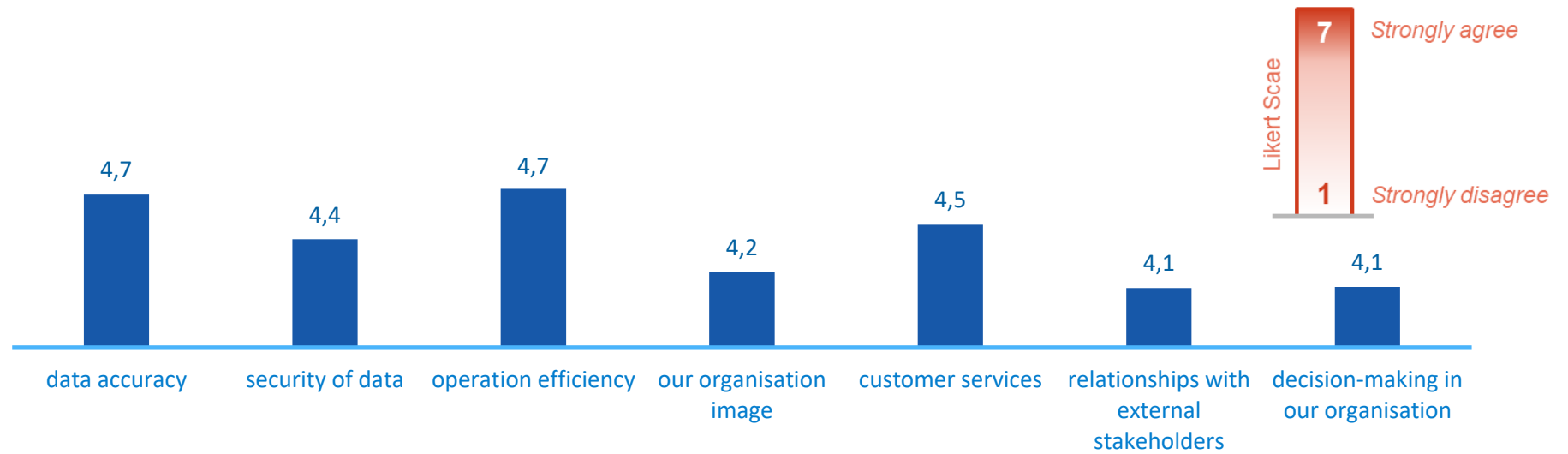


Factors contributing to adoption



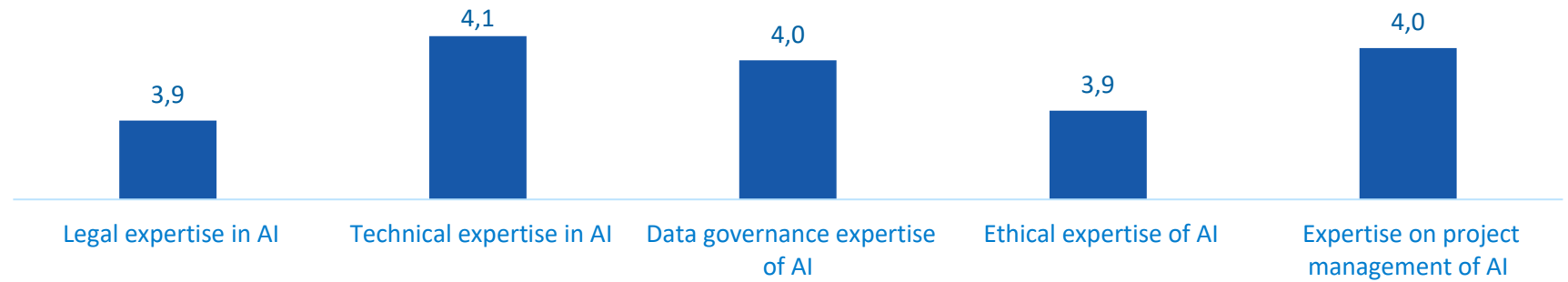
Technology

AI benefits



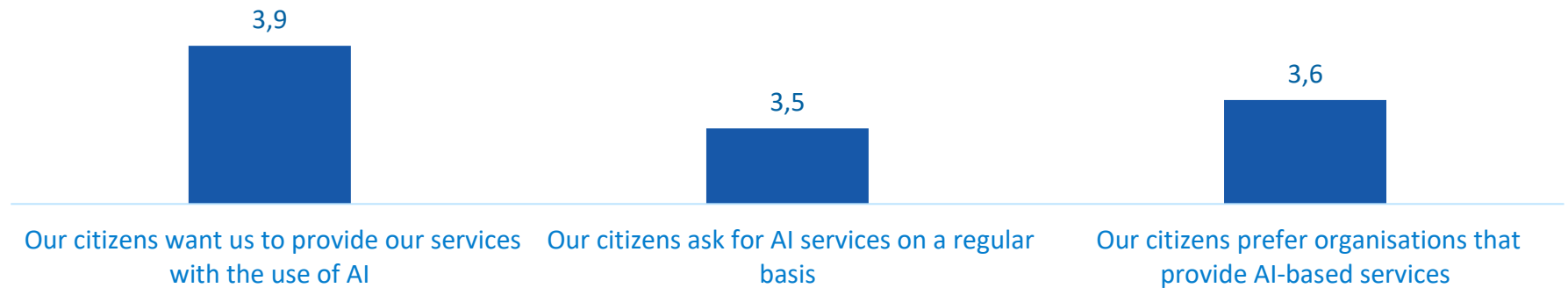
Organisation

In-house expertise



Environment

Perceived citizen need



Conclusions

1. AI adoption is no longer a promise, it is a reality, in particular in service delivery and internal operations.
2. Soft factors and in-house expertise are important in AI adoption
3. Citizen needs are important in AI adoption

Policy recommendations



1

Attention for AI and digitalisation in leadership programs, organisational development and strategy building.



2

Broaden in-house expertise on AI, this should not just be technical expertise but also on ethics, governance, management etc.



3

Monitor citizen needs for digital improvements in government service delivery.

Thank you



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University**



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Webinar 3. **What Factors Influence Perceived AI Adoption by Public Managers?**

A survey in seven EU-countries



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