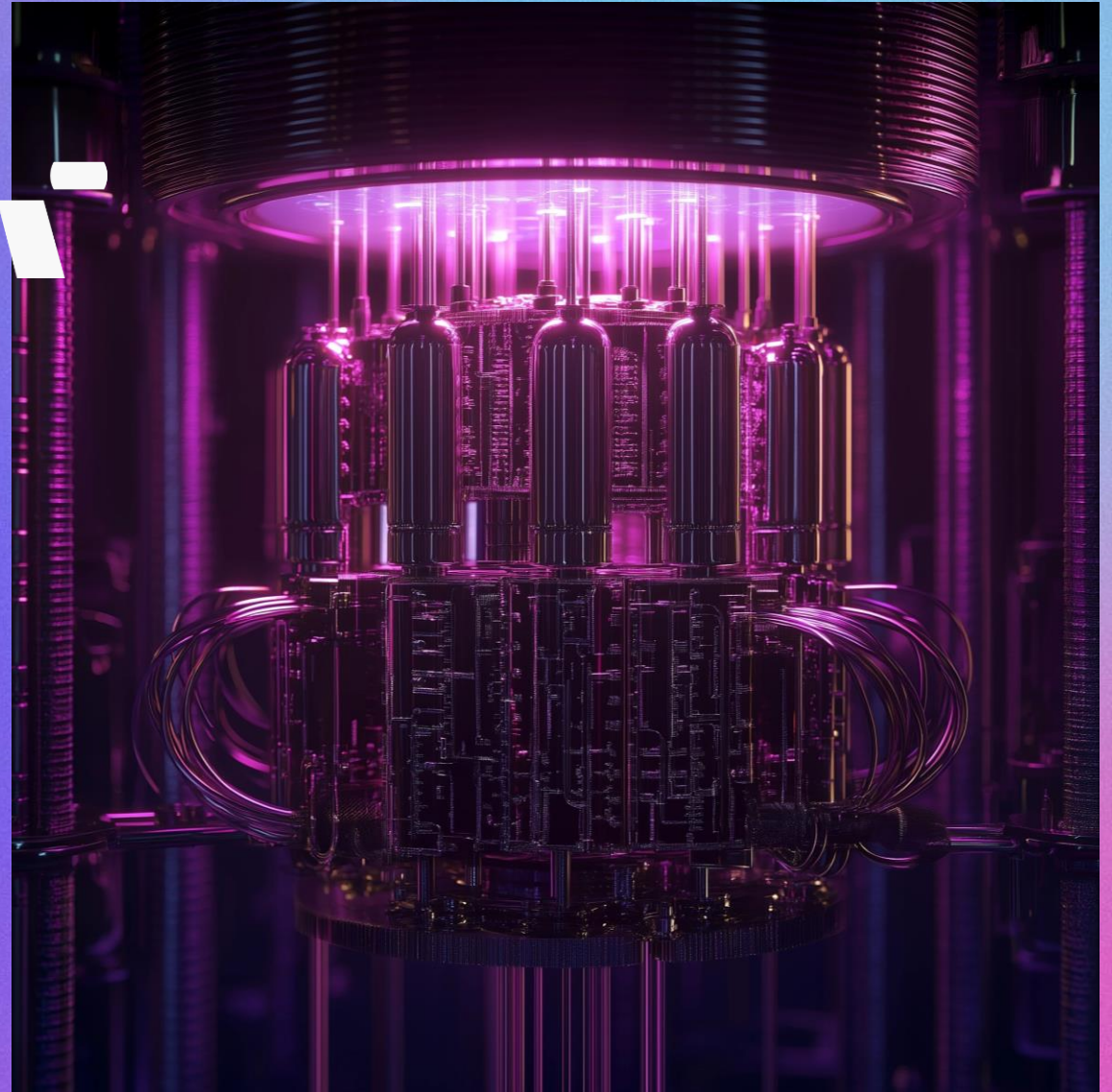


# AI – current state and opportunities for Finnish companies

Seminar on the Impact of AI on Economy, Finance and Supervision

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AI Finland, Technology Industries of Finland

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# AI Finland in brief



Finnish company network with the aim to accelerate the application and development of AI in Finland.



Founded in March 2024, funded by Technology Industries of Finland as part of a larger investment in AI acceleration.



Brings together companies and other organizations interested in AI, regardless of industry or size. 400+ organisations enrolled to take part in the network.





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## Agenda

1. Opportunities of AI for Finnish businesses
2. Current state of AI adoption and application among Finnish companies
3. Concluding remarks



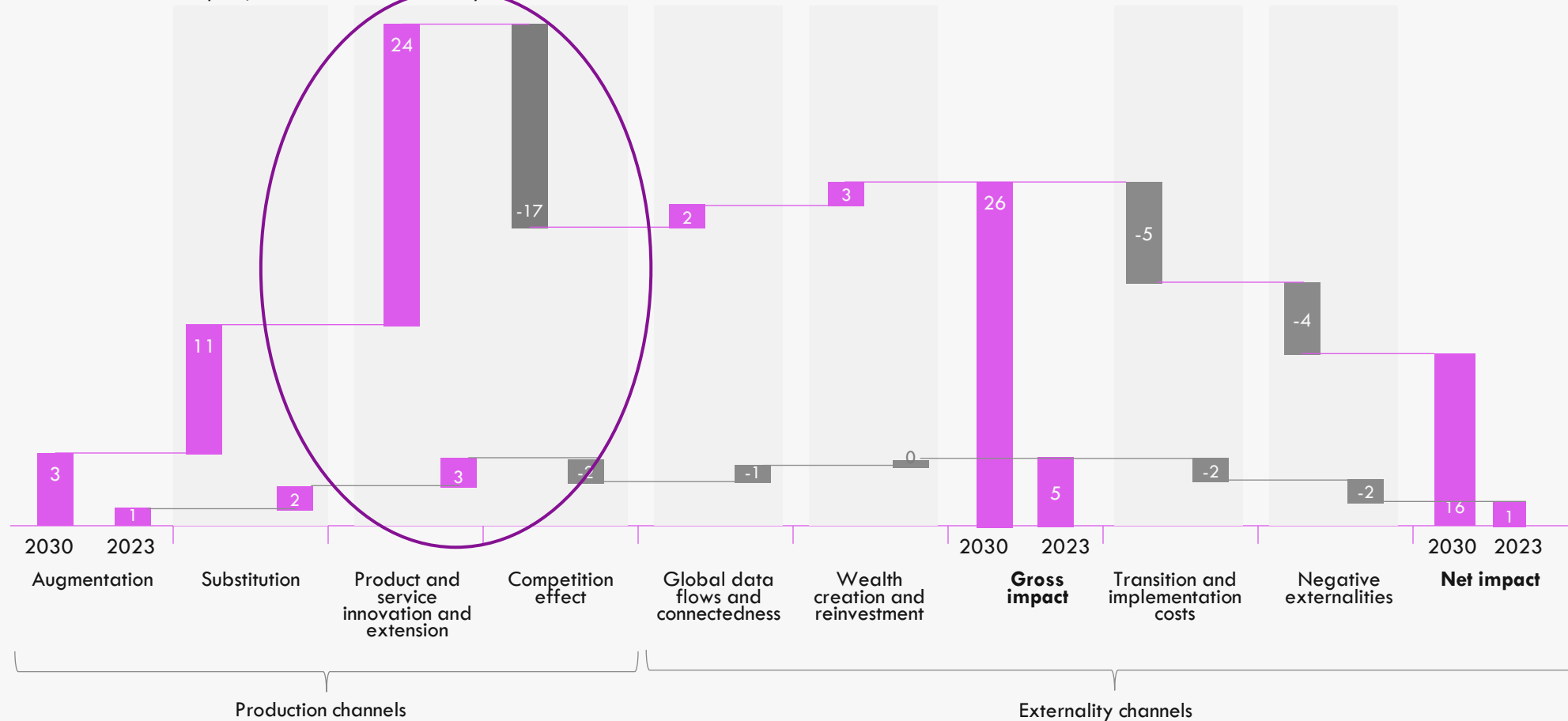


# Opportunities of AI for Finnish businesses

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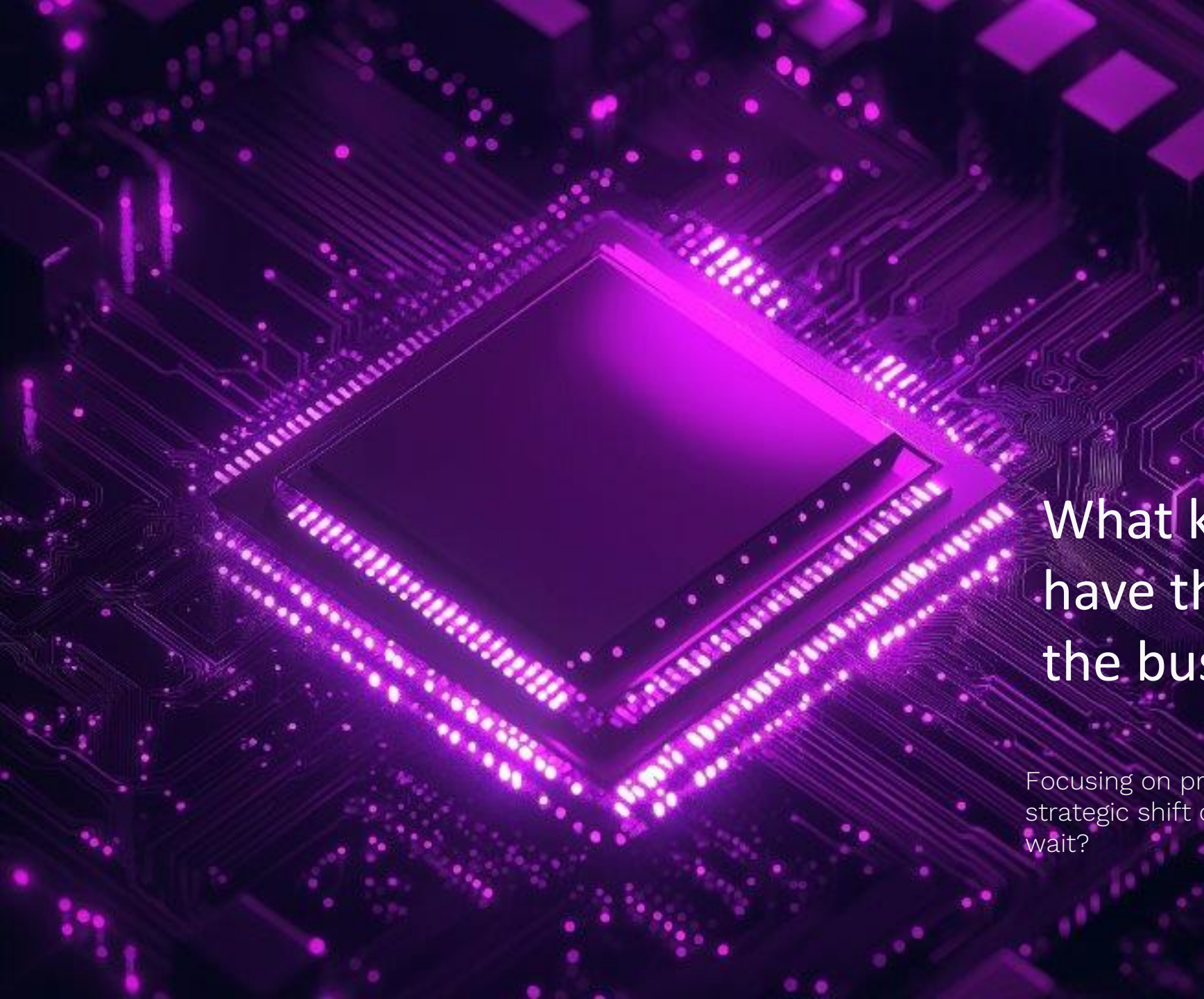
# The key impact likely to come from product and service innovation

Breakdown of economic impact, cumulative boost vs today, %



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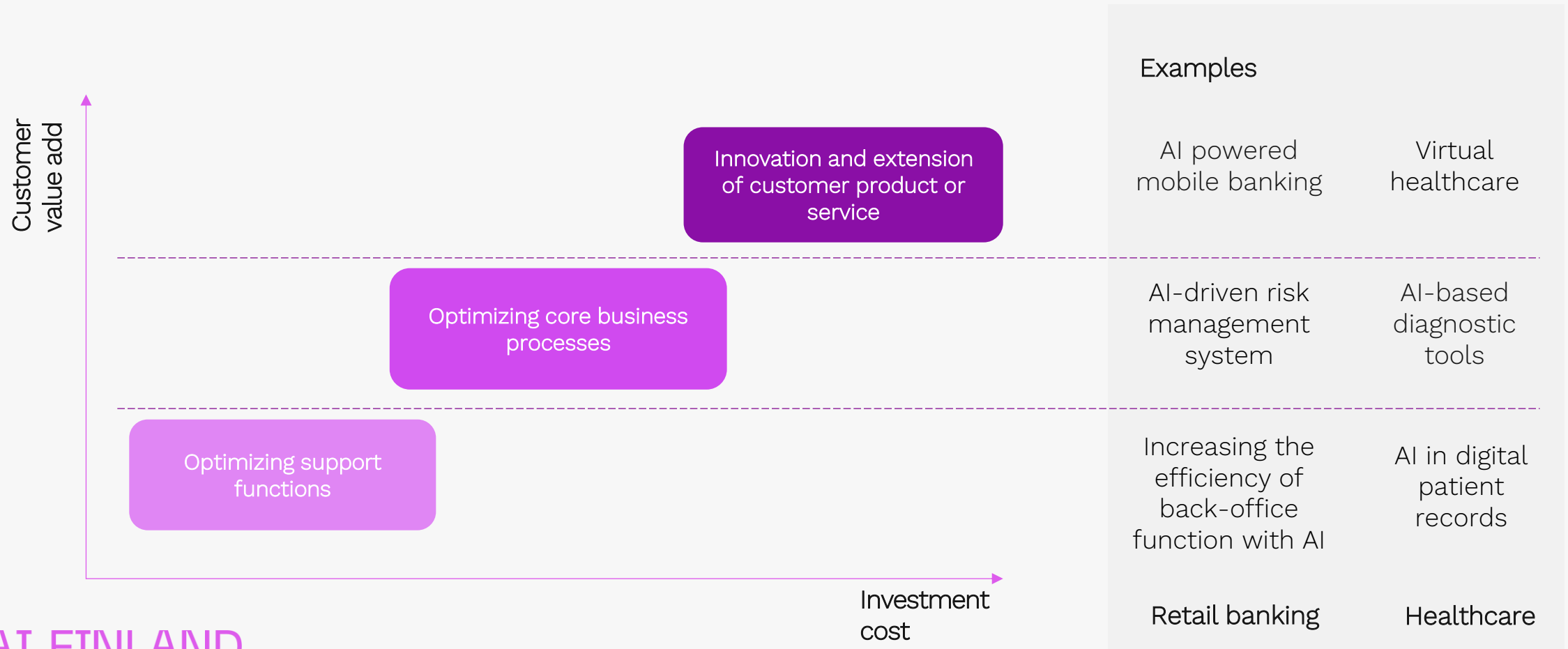


A glowing purple microchip is centered on a complex circuit board. The chip and the surrounding traces are illuminated with a vibrant purple light, creating a futuristic and high-tech aesthetic. The background is dark, making the glowing elements stand out prominently.

What kind of use cases will have the highest impact on the business?

Focusing on production or support processes? Sizable strategic shift or agile pilots? Build or buy? Build or wait?

# Examples of different use cases







# Current state of AI adoption and application among Finnish companies

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# Finland is well-positioned to gain advantage through AI

	Overall	Talent	Infrastructure	Operating Environment	Research	Development	Government Strategy	Commercial
United States	1	1	1	2	1	1	2	1
China	2	9	2	21	2	2	5	2
Singapore	3	6	3	48	3	5	10	4
United Kingdom	4	4	17	4	4	16	7	5
France	5	10	14	19	6	4	9	8
South Korea	6	13	6	35	13	3	4	12
Germany	7	3	13	8	8	11	8	9
Canada	8	8	18	16	9	10	3	6
Israel	9	7	26	65	7	6	32	3
India	10	2	68	3	14	13	11	13
Japan	11	23	5	53	20	14	12	14
Switzerland	12	5	11	58	5	19	64	20
The Netherlands	13	11	7	29	15	17	19	23
Saudi Arabia	14	60	29	41	42	26	1	7
Finland	15	14	12	9	18	12	25	15
Hong Kong	16	21	8	40	10	18	59	11

15th



# Some examples of success cases in Finland

Transforming core processes  
with AI



**KONE**

AI-driven preventive  
maintenance, AI assistants  
for maintenance workers  
on site

Transforming core business  
through AI



**Vaisala**

AI assisted  
road infrastructure  
management

Morphing from the traditional  
business into a tech company



**Fira**

Transforming construction with  
data-driven  
intelligent processes

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However, major share of companies are in the starting phase

**Industry shaper**

Organizational DNA is transformed  
Reshaping whole markets

**Professional**

AI is in production and broadly embedded in the organization  
Sustainable value creation

**Practitioner**

AI vision exists and systematic implementation has started  
First value but not sustainable

**Experimenter**

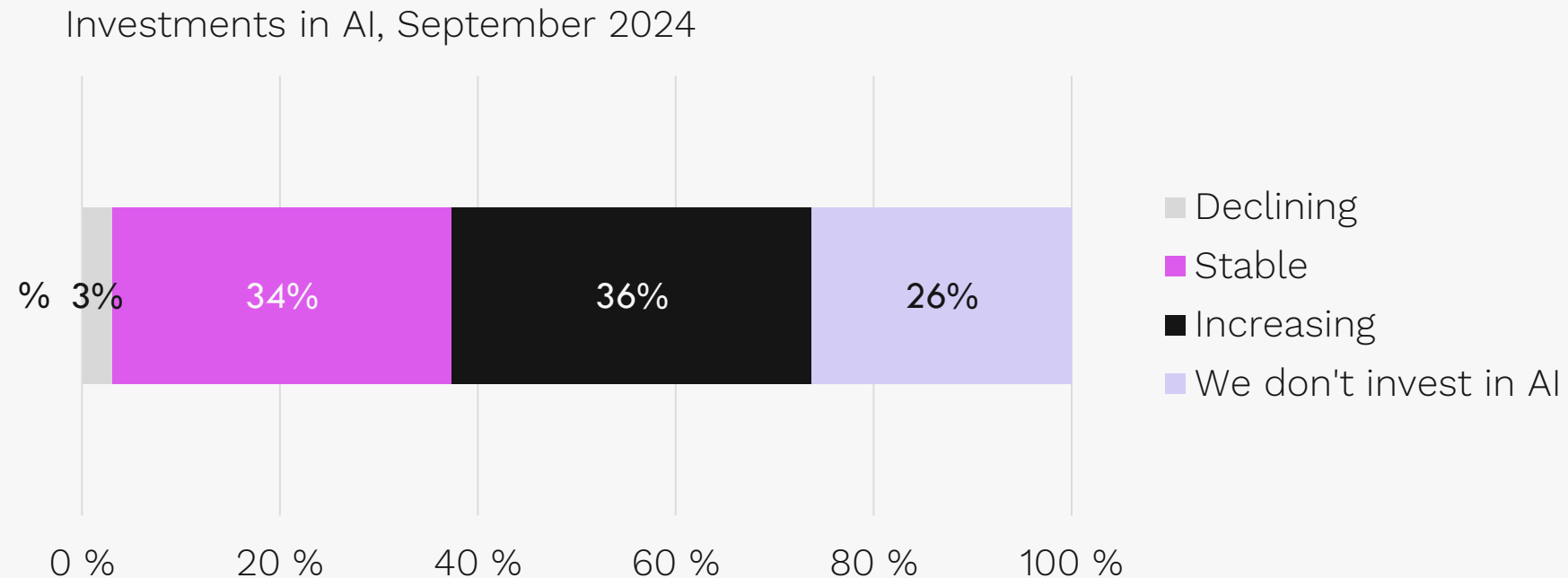
Desire to start with AI, first prototypes are built  
First value-adding PoC's

**Not started**

AI is not on the  
company's agenda  
Risk of losing  
competitiveness

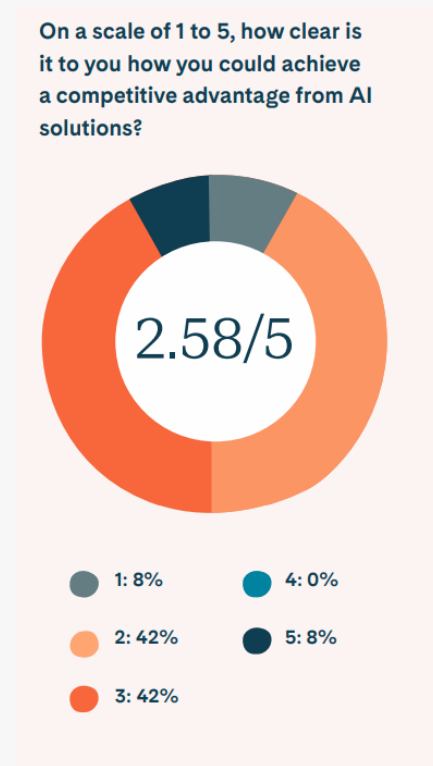
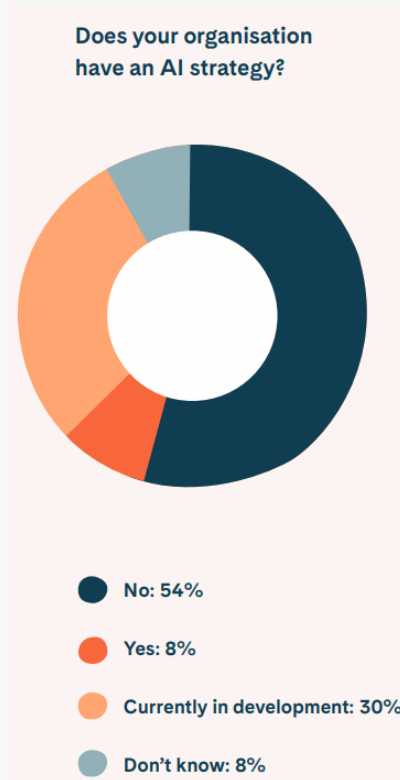


# Companies are starting to increase their investments in AI – often focusing on AI adoption



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# Only few companies have a clear AI strategy, but things are starting to change





# 100+ challenges identified in workshops in September

## Lack of examples

Lack of courage

Gathering and refining ideas

Where to start concretely?

How to identify opportunities?

Information sharing

Ability to see through the hype

Data foundation not in order

## Data production and quality

Fragmented data

Data standardization

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## Resources

How to calculate the ROI of an AI investment?

Lack of software libraries for quantum computers

Investment-decisions

Access to research resources

Focus on the right things

Project prioritisation

Change management

## Competence and knowhow

Scaling skills

Learning ability

Leadership transformation

AI ethics

Pioneer's problem

Rules

## Data security and privacy

Standards, regulations, laws

Fear of job losses

Change in operating models

## Regulation and legislation

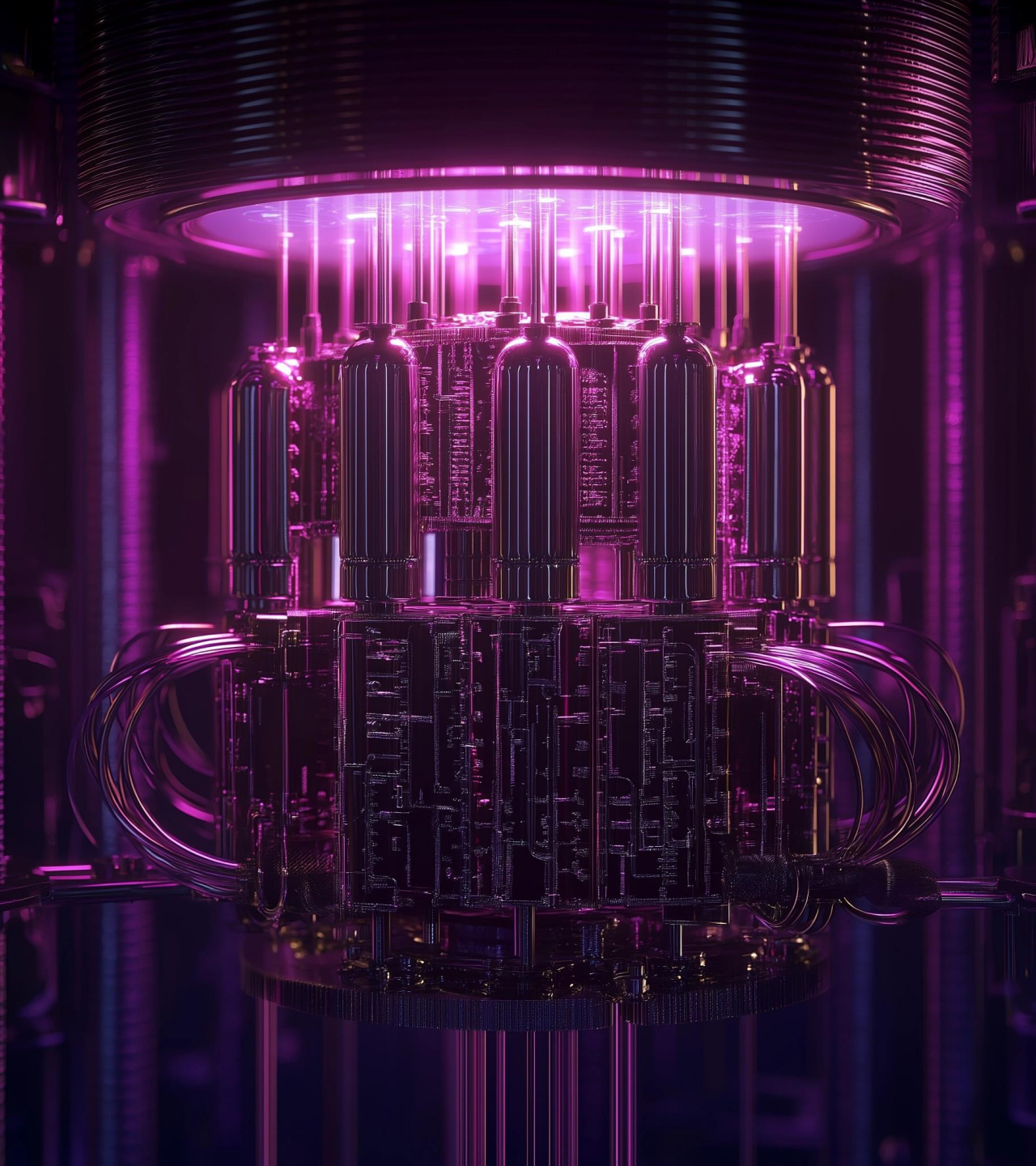
Privacy concerns



# Summary and conclusions

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## Realizing potential requires courage and concrete examples

- The growth potential offered by AI is significant – the largest growth potential lies in product and service innovation.
- Many Finnish companies are in the early stages, having so far focused on piloting.
- Companies now need concrete examples and experience-based insights to support investment decisions and the transition from pilots into production.





**Thank you!**

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