

The background is a dark blue field filled with glowing digital elements. A large, semi-transparent globe is visible in the upper left. Overlaid on the globe are various data visualizations, including a bar chart with the word 'VALUE' written vertically, a line graph with a percentage '100%', and several circular gauges or progress indicators. The main visual is a human hand from the right side of the frame, holding a sleek, silver and black robotic arm. The robotic arm has a complex joint at the wrist and a gripper-like end. The overall aesthetic is high-tech and futuristic.

Cartagena

Charting the Change: Innovations, Well-being, and Economic Transformations

Tero Kuusi, Research
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Cartagena seminar,
St. George Hotel

14.5.2025

Business Finland project 2024-26

**Transformations through New
technologies, green transition,
geopolitics**

- **Higher living standards and well-being?**
- **Supporting public actions?**



WP1. Personal behavior data, pro-self nudging and well-being

Unique Nutrition C...
impacts on purch...

WP2. Technology use, well-being and labor market outcomes

ase study, Quality of Life Survey

WP2. Technology use, well-being and labor market outcomes

WP3. Green s... productivity and... renewal

International data on industrial policies, Finnish green subsidies

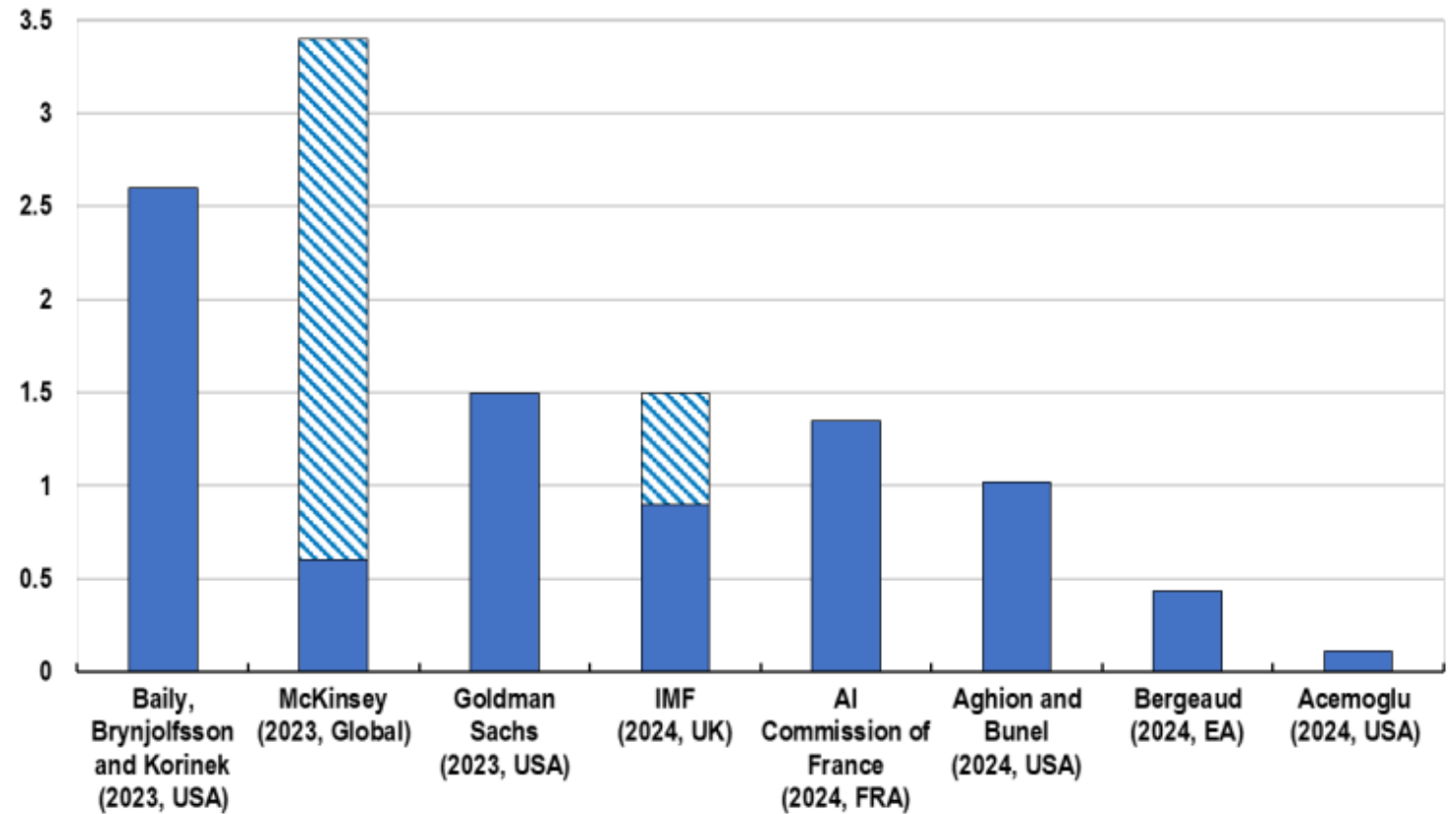
...transition frictions, technology adoption and well-being

Macroeconomic model of green transition with frictions

Economic growth and AI

Expected to have significant effects
... but how large?

Predicted increase in annual labour productivity growth over a 10-year horizon due to AI (in percentage points)



Source: Filippucci, F., P. Gal and M. Schief (2024), "Miracle or Myth? Assessing the macroeconomic productivity gains from Artificial Intelligence". OECD Artificial Intelligence Papers, No. 29, OECD Publishing, Paris

Acemoglu aritmatics

Share of tasks
adaptive for AI

23%

Share economically
feasible

× 20%

Average
TFP gain

× 27%

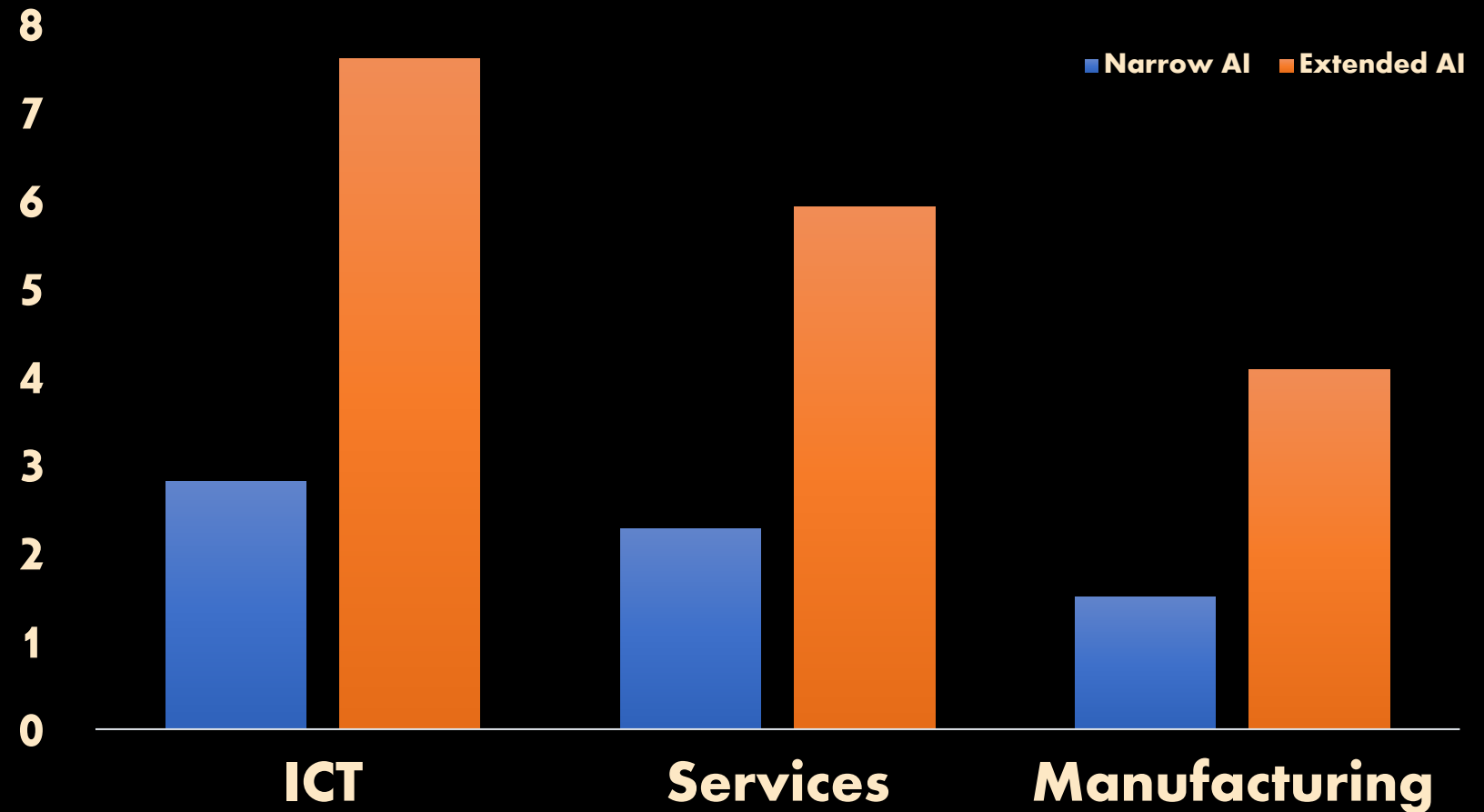
Share of labor
in VA

× 57%

10 yr. aggregate
TFP gain

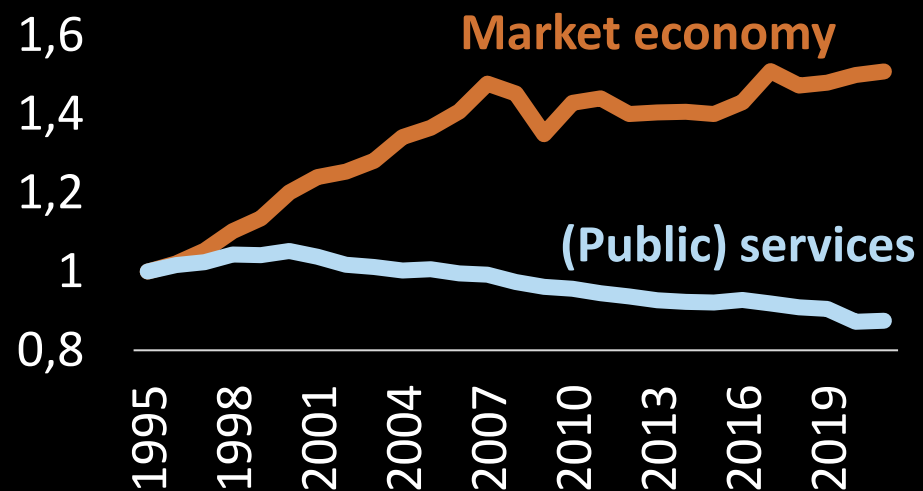
0.7%

Figure. Forecasted 10-year horizon TFP growth impacts of AI by sector

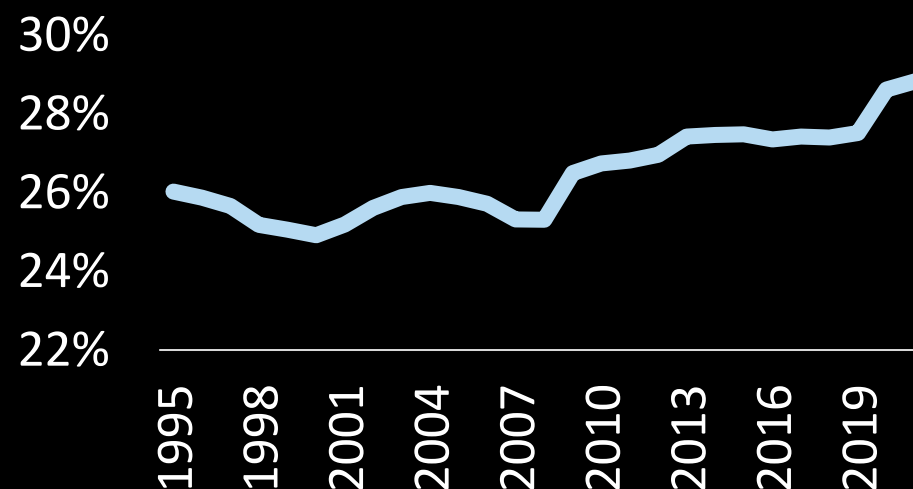


Source: Filippucci, F., P. Gal and M. Schief (2024), "Miracle or Myth? Assessing the macroeconomic productivity gains from Artificial Intelligence". OECD Artificial Intelligence Papers, No. 29, OECD Publishing, Paris

Labor productivity

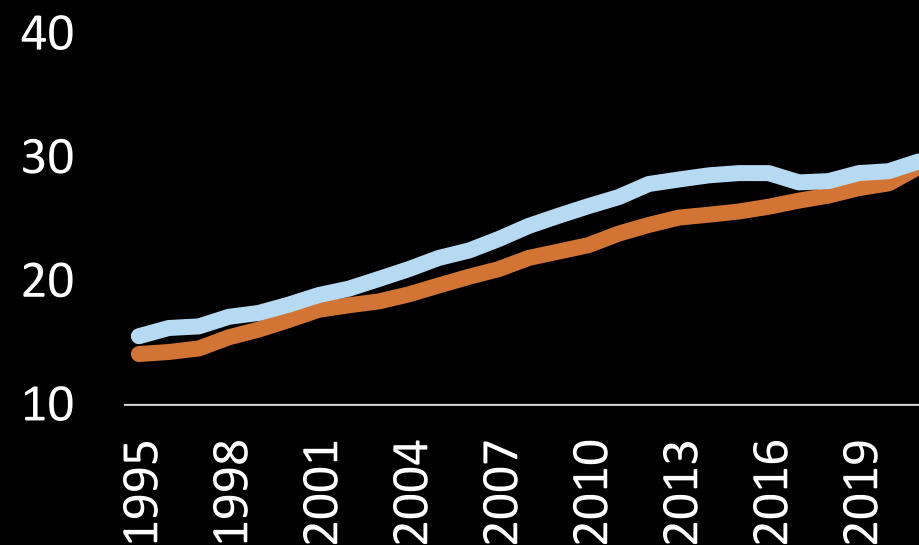


Labor share

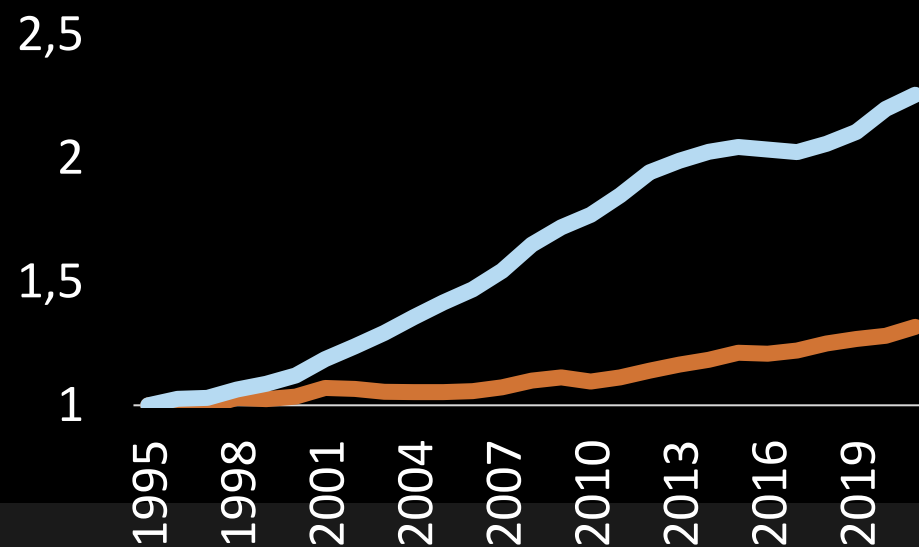




Hourly wage



Price of production



Potential in Finland

GDP 23-33

+1.1-3.8% (2.7-10.4 bn)

Services

**Additional GDP
contribution**

+0.8-2.7% (2.1-7.4 bn)

**Share of total
growth boost**

69-77%

Source: Potential growth based on multi-sector dynamic general equilibrium modeling + OECD micro-level TFP growth estimates. Business Finland project Boosting productivity through digitalization.



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