

# The European AI innovation opportunity

IMPLEMENT  
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Boosting Europe's competitiveness with AI-powered innovation

The economic potential

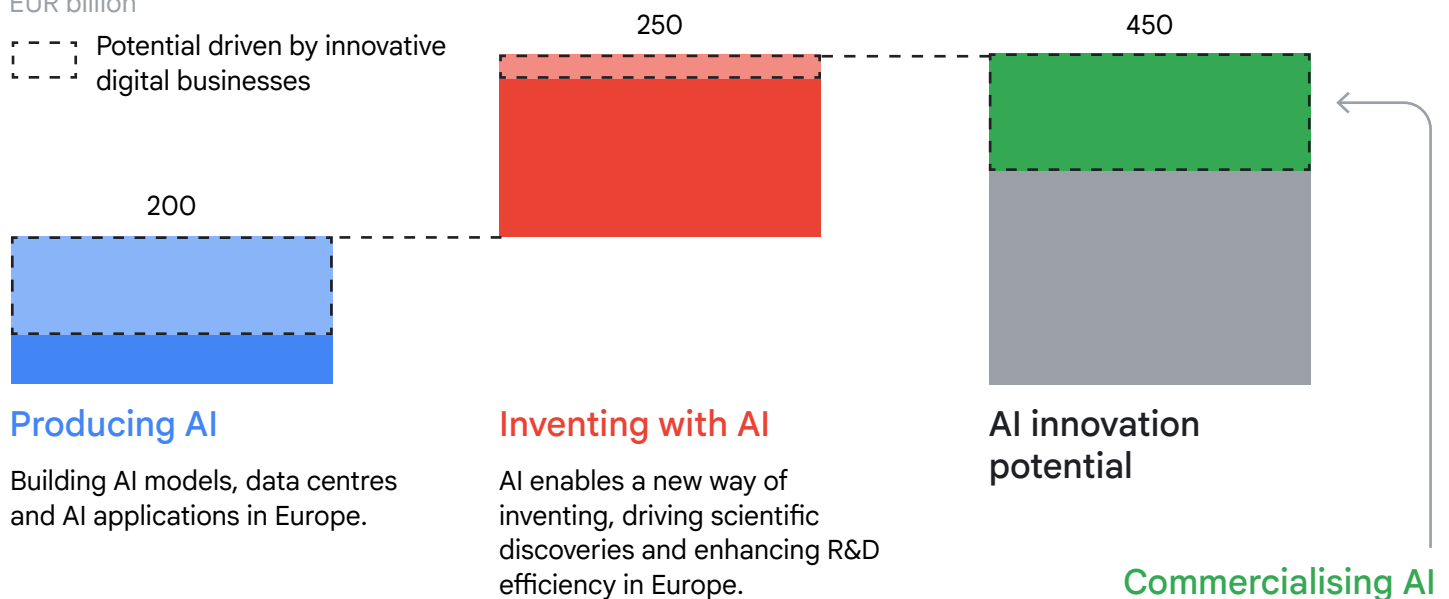
## Accelerating AI innovation can unlock a EUR 450 billion economic boost for Europe

Europe's potential for AI innovation is a synergy of AI production and invention with AI, along with the commercialisation of AI, which is driven by innovative digital businesses. *Producing more AI* in Europe represents a **EUR 200 billion** opportunity. *Inventing more with AI* can unlock another **EUR 250 billion in annual economic value**.

### GDP potential in 2034

EUR billion

--- Potential driven by innovative digital businesses



#### Producing AI

Building AI models, data centres and AI applications in Europe.

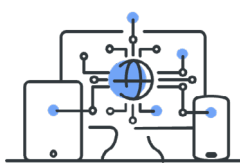
#### Inventing with AI

AI enables a new way of inventing, driving scientific discoveries and enhancing R&D efficiency in Europe.

#### AI innovation potential

#### Commercialising AI

Growing and scaling more innovative digital businesses in Europe is estimated to drive 30-40% of the AI innovation potential.



**25%**

projected annual growth in the global AI market for Europe to tap into

**75%**

of Europe's AI production potential is in applications and services

**19%**

of global AI application funding is flowing to Europe

**2x**

higher innovation quality with AI

**10-20%**

more efficient R&D processes with AI

**2-7x**

social return on AI-induced R&D efficiency

**130%**

higher productivity in successful innovative digital businesses

**79%**

of innovative digital businesses use generative AI

**70%**

of the commercialisation potential comes from creating more innovative digital businesses

## Google enables AI production, commercialisation and innovation in Europe

**Breakthrough innovation stems from global collaboration, where researchers build on each other's discoveries.** Google contributes to Europe's EUR 450 billion AI innovation potential and the EUR 1.2 trillion AI adoption potential through investments and partnerships. It acts as a bridge for global technological advancements across the continent...

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|---|---|---|
| <ul style="list-style-type: none"> <li>→ 7 energy-efficient data centres</li> <li>→ 13 cloud regions</li> <li>→ multiple crucial subsea cables connecting Europe to the world</li> <li>→ carbon-free investments in the energy grid</li> <li>→ sovereign cloud infrastructure</li> <li>→ cutting-edge AI computing power</li> </ul> | <ul style="list-style-type: none"> <li>→ hundreds of millions of re-search years saved in research time with <u>AlphaFold</u></li> <li>→ <u>12 million people</u> helped to learn key digital skills</li> <li>→ partnerships with research institutions</li> <li>→ 2,700 AI research papers published from 2020-2023 advancing global scientific understanding</li> </ul> | <ul style="list-style-type: none"> <li>→ <u>EUR 560 billion</u> in annual worker productivity through tools like Google Search and Workspace</li> <li>→ <u>USD 500 million</u> invested in 40 promising European startups through Google Ventures</li> <li>→ 1,630 European startups supported through the <u>Google for Startups</u> programme.</li> </ul> |
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### Policy recommendations

## Harnessing Europe's AI strengths requires open competition, leveraging high-quality data, cutting red tape, and strategic public funding

### Infrastructure

Modernise electricity grids to ensure a reliable and clean energy supply

Streamline and harmonise permitting processes for data centres

Safeguard the EU's enabling copyright system to foster innovation

### Investment

Encourage startups in scientific research through grants and joint public procurement

Consolidate fragmented public R&D funds to incentivise risk-taking and target 'moonshot' projects

Stimulate private investment by cutting red tape and strengthening the single market

### Innovation

Implement pro-science legal frameworks

Cultivate Europe's AI talent through interdisciplinary collaboration across member states

Ensure access to specialised tools and robust AI models



Scan to view Google's Policy Framework for Building the Future of Science with AI



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