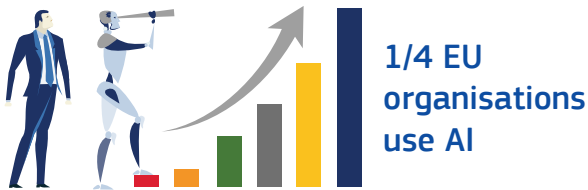


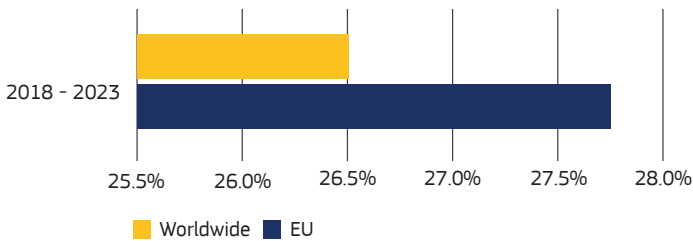
# Advanced Technology Watch - Technology Focus on Artificial Intelligence

## Europe is catching up and is seeing the Artificial Intelligence (AI) opportunity

The **largest growth rate on patents** in the EU27 is in AI, with a compound annual growth rate of **more than 10%**

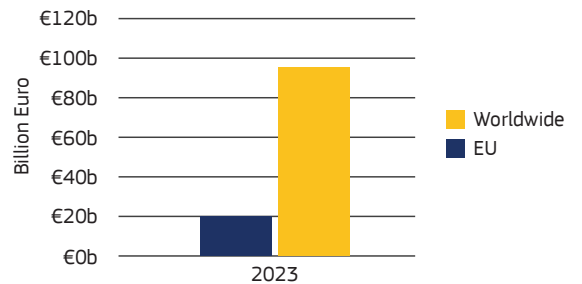


EU's share of AI spending is expected to increase by 27.8% in 2023

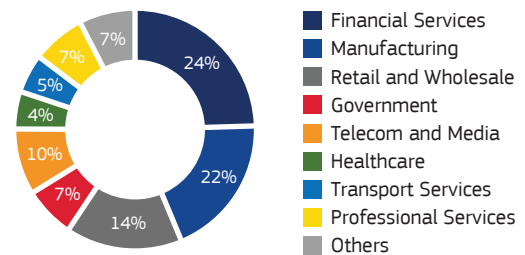


## Which industries spend most on AI?

By 2023, it is expected that EU has a share of 23% of worldwide spending on AI



Financial services sector has the highest share in total AI spending



## Top 3 Opportunities



1. Asset & Fleet Tracking in Transportation
  - Implement remote management
  - Achieve route optimisation
  - Monitor driver behaviour



2. Shopping Advisory & Recommendations
  - Profiling customer tastes
  - Offer personalised advice
  - Use of chatbots



3. Advanced Digital Simulation
  - Improve product design by deep learning
  - AI serves as simulated twin
  - Improve customer satisfaction

## Moving to the next generation of AI



### Strengthen AI research & innovation

- Build essential digital capabilities & bridge the gap between industry & research



### Increase knowledge for skills & know-how

- Create enough technical skills & know-how to meet the rising demand
- Develop advanced digital skills



### Sufficient availability of data/data sharing

- Datasets are the main ingredient for AI



### Mature legislative framework

- Develop good management of AI-related liability, safety, security



### Enhance social trust






- Build a trustworthy AI

# How AI ensures a healthy life for all

With the COVID-19 pandemic, accessible healthcare driven by AI is more vital than ever before.



## Initiatives for Social Good

	Fondation Médecins sans Frontières	Image recognition to identify antibiograms
	European Emergency Number Association & Corti	Support emergency medical service operations
	Skillab BV	AI app helping refugees to document skills in native languages
	HURIDOCs	Natural Language Processing + Machine Learning in extracting facts from documents for human right lawyers
	Full Fact	AI Driven monitoring for fact checking of news

## About the Advanced Technologies for Industry (ATI) project

The ATI project – funded by the European Commission – supports the **implementation** of Europe's new growth strategy with a systematic monitoring of **technological trends** and reliable, **up-to-date data** on advanced technologies.



The **Advanced Technology Watch Reports** explore the futuristic, upcoming technologies that are on the horizon of technology development today and that are characterised by high speed of evolution and a significant disruptive potential.

For more information, read the full Advanced Technology Watch Report on Artificial Intelligence here: <https://ati.ec.europa.eu/reports/technology-watch/technology-focus-artificial-intelligence>