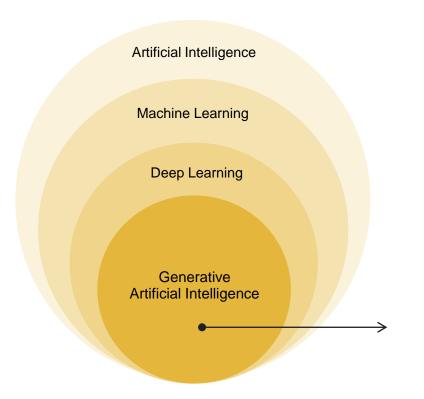


The economic opportunity of AI in Romania

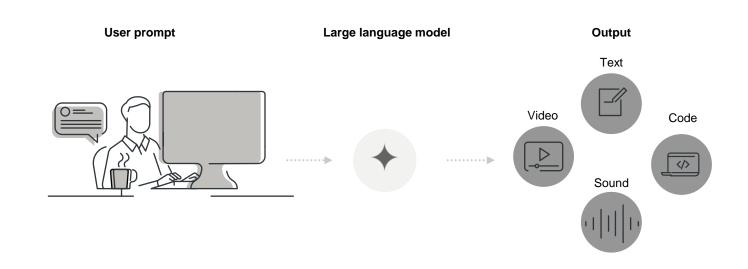
Capturing the next wave of benefits from generative AI

Al can help humans solve tasks faster and better





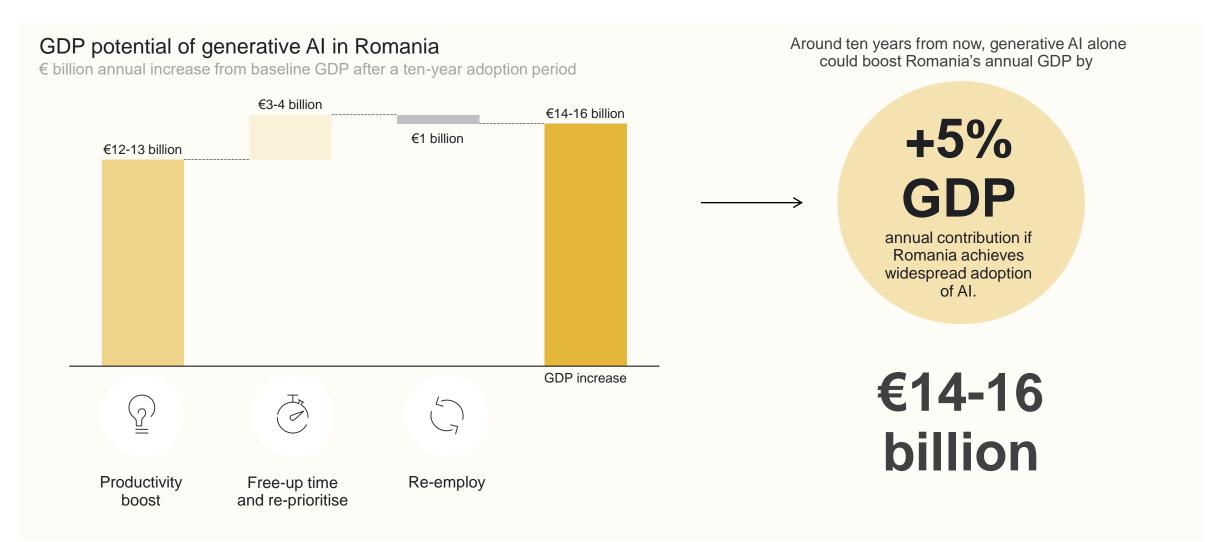
Generative AI models can create original content via user prompts



No or low data requirements
Pre-trained models are readily
available for many tasks

Easy to use in plain language
Not require any coding skills

Online and free of charge
Not requiring local infrastructure

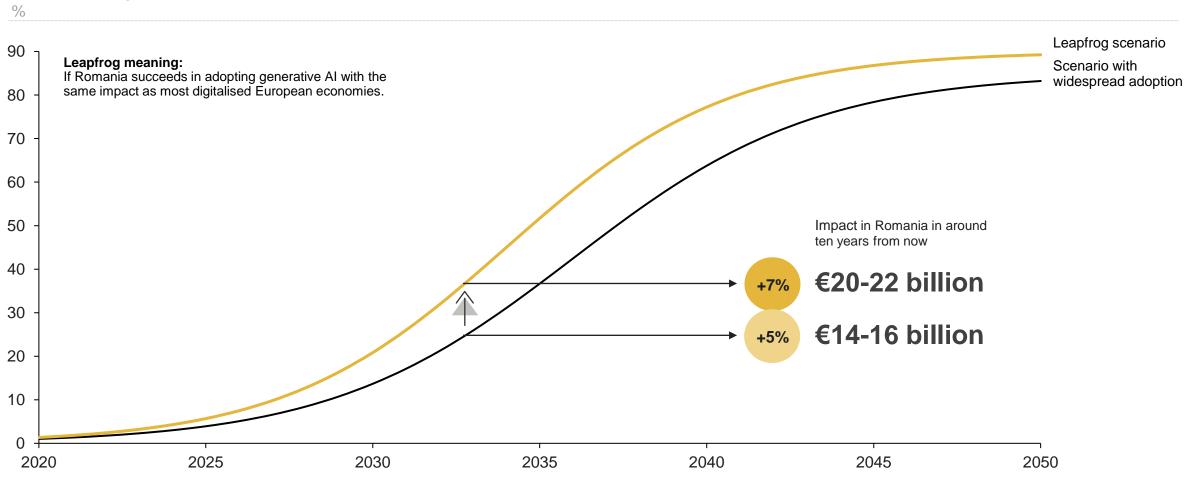


Note: GDP figures are expressed in 2022 levels.

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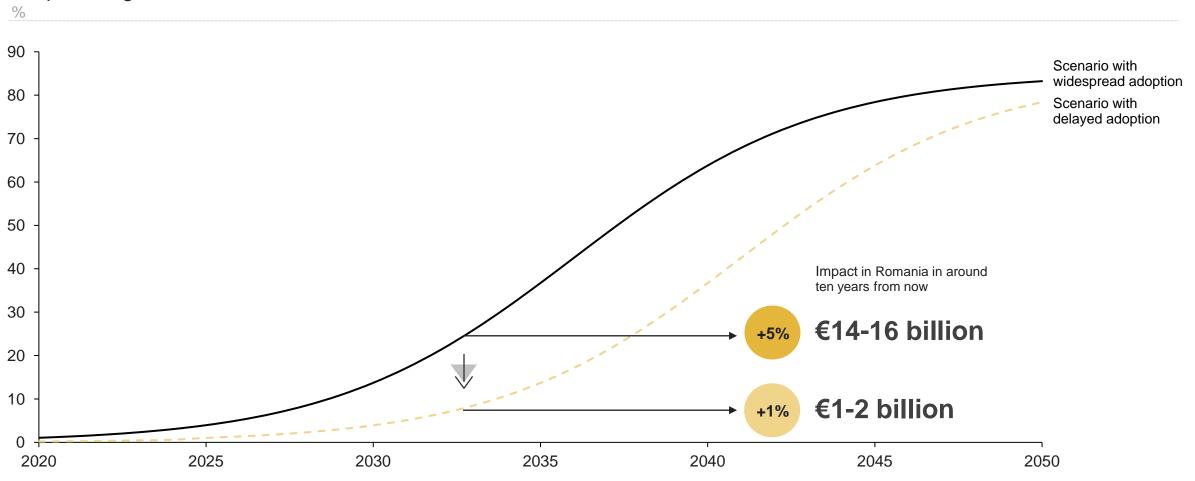
A leapfrog scenario could increase Romania's annual GDP potential from generative AI from 5% to 7%

Adoption of generative Al



A five-year delay in the adoption of generative AI could reduce Romania's annual potential GDP gains from 5% to 1%

Adoption of generative Al

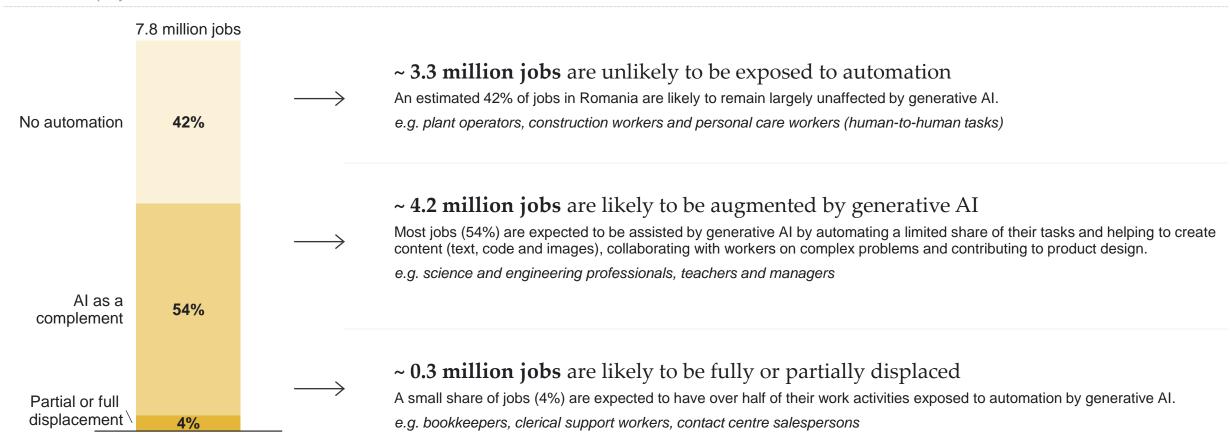


Generative AI is estimated to augment most jobs in Romania



Share of jobs exposed to automation by generative AI

% of total employment in Romania

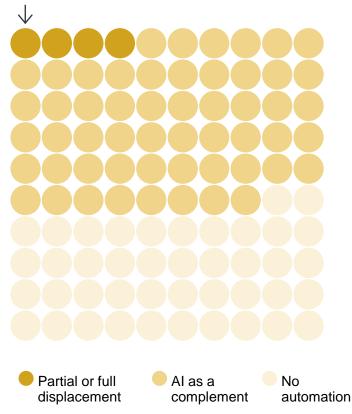


The AI-powered economy is expected to create new jobs and ensure full reemployment of potentially displaced workers in Romania

Share of jobs exposed to automation by generative Al

% of total employment in Romania

4% of jobs in Romania are estimated to be highly exposed to generative AI, leading to some job closures.



Meanwhile, 54% of jobs are expected to see a boost in productivity. This will create new jobs due to:

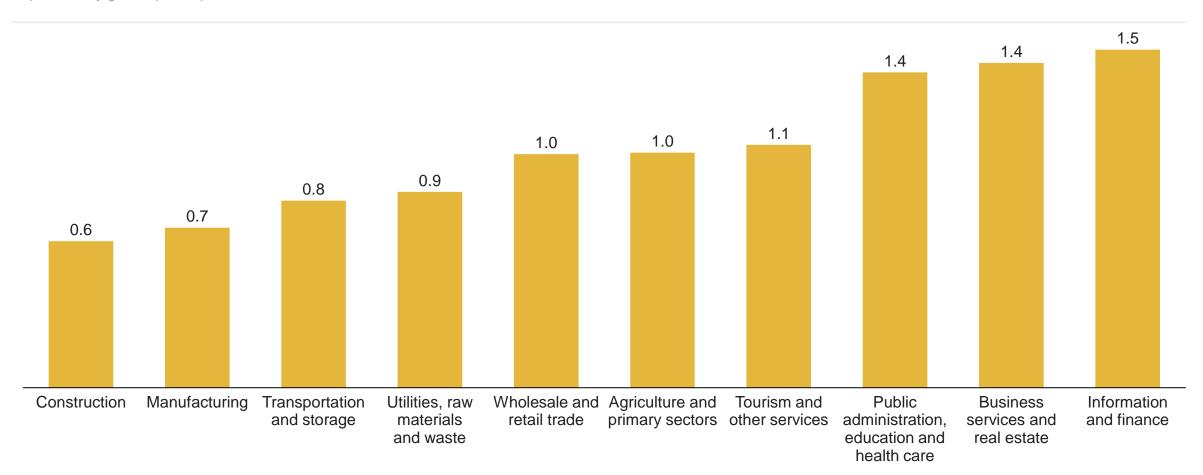
- Increase in general demand for goods and services
- II Creation of new AI-related tasks
- III Demand within occupation

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Generative AI can boost productivity across all sectors in Romania

Productivity boost from generative AI

% productivity growth p.a. at peak

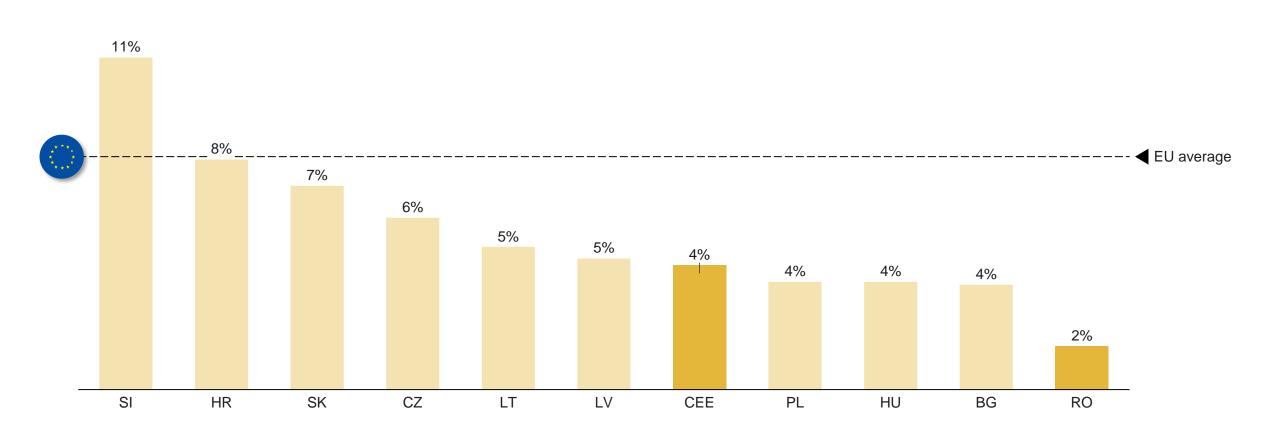


Al adoption in Romania is below CEE region and EU



Adoption of AI 2023

% of enterprises using at least one type of AI technology

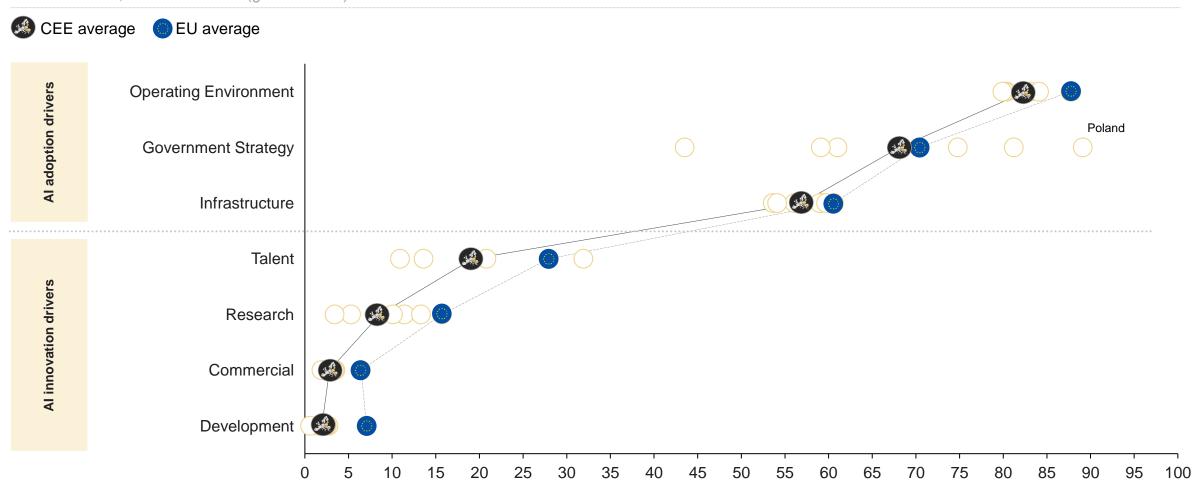


CEE is lagging behind EU on early adoption drivers and innovation drivers



CEE's AI capacity according to the Tortoise Global AI Index

Global Al Index, score out of 100 (global leader).



For Romania to capture the AI potential requires a balanced set of choices









Accelerate commercial uptake

Retrain and upskill workforce

How might Romania as part of CEE

focus more on research funding and collaboration across academia, industry, and government sectors. work towards business-friendly environments, simple regulations, and favourable IP regimes to boost AI adoption.

launch initiatives that address the increased demand for skills. 31% of CEE companies believe they need enhanced general digital skills to take full advantage of AI.