

How organizations can realize the full potential of generative AI for software engineering

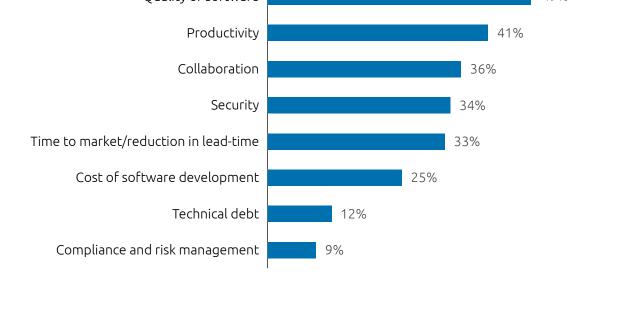
software with Gen Al



One in two organizations adopting generative AI sees improvements in enabling innovative work and quality of software.

> Percentage of organizations seeing benefits through the adoption of generative AI, as mentioned by software leaders





Source: Capgemini Research Institute, Generative AI in Software Engineering, Senior Executive Survey, April 2024, n = 412 software leaders that have scaled up or are running pilots with generative AI in software engineering.

Organizations with active\* generative AI initiatives have seen 7–18%

improvement in total productivity across the SDLC#

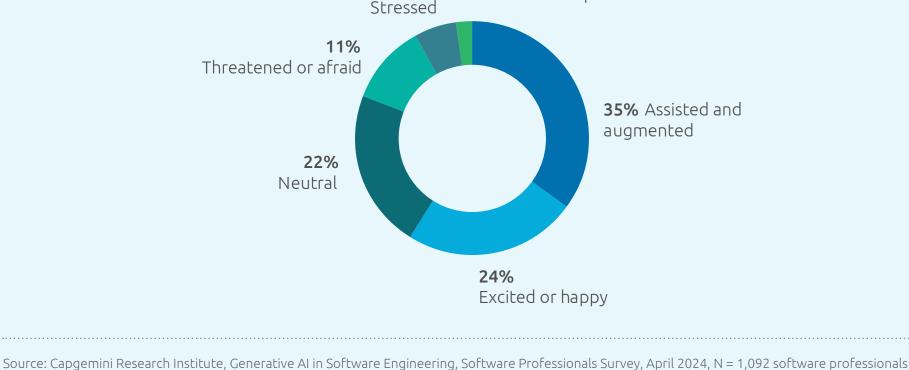
# Total productivity improvement refers to overall improvement in the productivity of the software professionals from all types of tasks accelerated by generative AI.

\* active initiatives are those generative AI deployments that are in the pilot or scaling stages.

## How does the workforce feel as regards to the adoption of generative AI

Generative AI benefits extend to job satisfaction and happiness.

Frustrated or helpless



## but will accelerate sharply

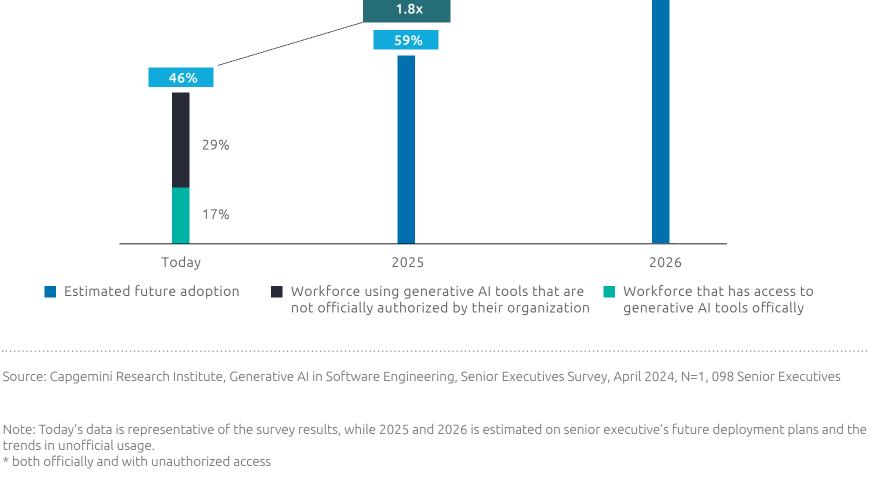
Adoption of generative AI in software engineering is

in its early stages, but more than four in five software

professionals are estimated to leverage\* it by 2026

Generative AI adoption is at an early stage

Percentage of workforce leveraging generative AI tools in the workforce 85%



Most use cases are in early stages of adoption.

Percentage of organizations focusing on the following use cases for

implementation (pilot or scaled)

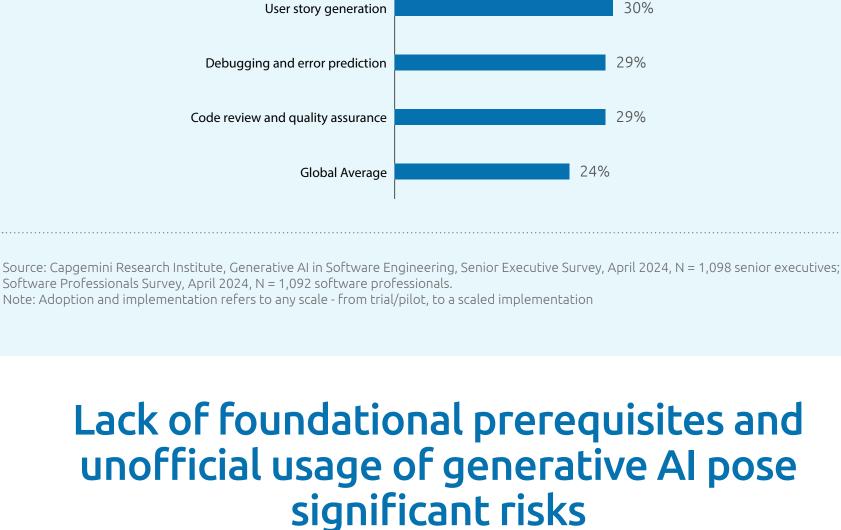
RFP preparation and proposal evaluation

UX design assistance

39% Coding assistance (generation, completion)

37%

33%



organizations lack also lack an a **governance framework** for upskilling/reskilling **program** for generative AI in generative AI

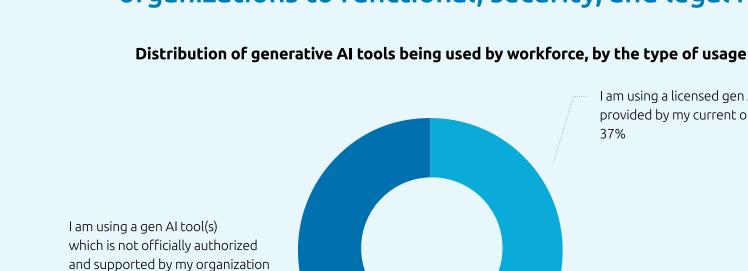
More than three in five software professionals using generative

Al are doing so without organizational approval, exposing

Organizations lack the governance framework and upskilling

and reskilling programs for leveraging generative AI for

software engineering.

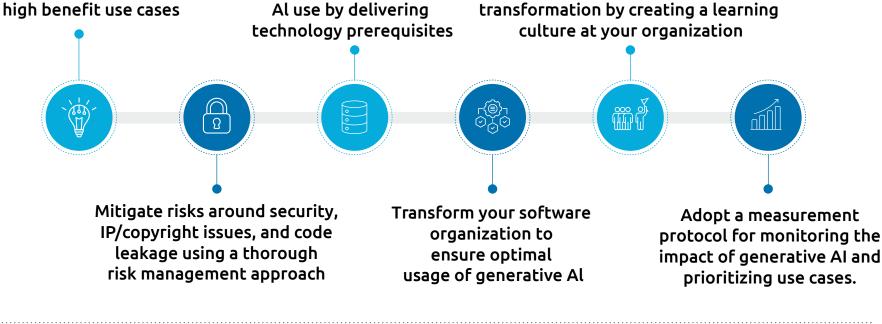


software engineering

organizations to functional, security, and legal risks. I am using a licensed gen AI tool(s) provided by my current organization

Source: Capgemini Research Institute, Generative AI in Software Engineering, Senior Executive Survey, April 2024, N = 1,092 organizations represented by 1,092 software professionals.

## How can organizations harness the full potential of generative AI for software engineering?



Prepare for generative

Source: Capgemini Research Institute.

Select and prioritize

Download report

Put people at the heart of this