



Capgemini

**GENERATIVE AI
FOR
SOFTWARE
ENGINEERING
(SWE)**

GenAI is here to stay, and the journey **has just begun**



Key areas of GenAI application



Collaboration

Chatbots for employee assistance & customer support



Content

Search enhancement & document synthesis



Code Generation

Including code documentation & analysis



Co-Agent / Co-employee

Copilot for a large user population



Creation

Image creation, product design, campaign generation

Access & leverage GenAI

Leverage Commercial-Off-The-Shelf (COTS)



Leverage ready-to-use software solutions with built-in generative AI capabilities of *GitHub Copilot* embedded GenAI solution within SaaS solutions

- Easily accessible and state-of-the-art of GenAI
- Ideal to address a large population



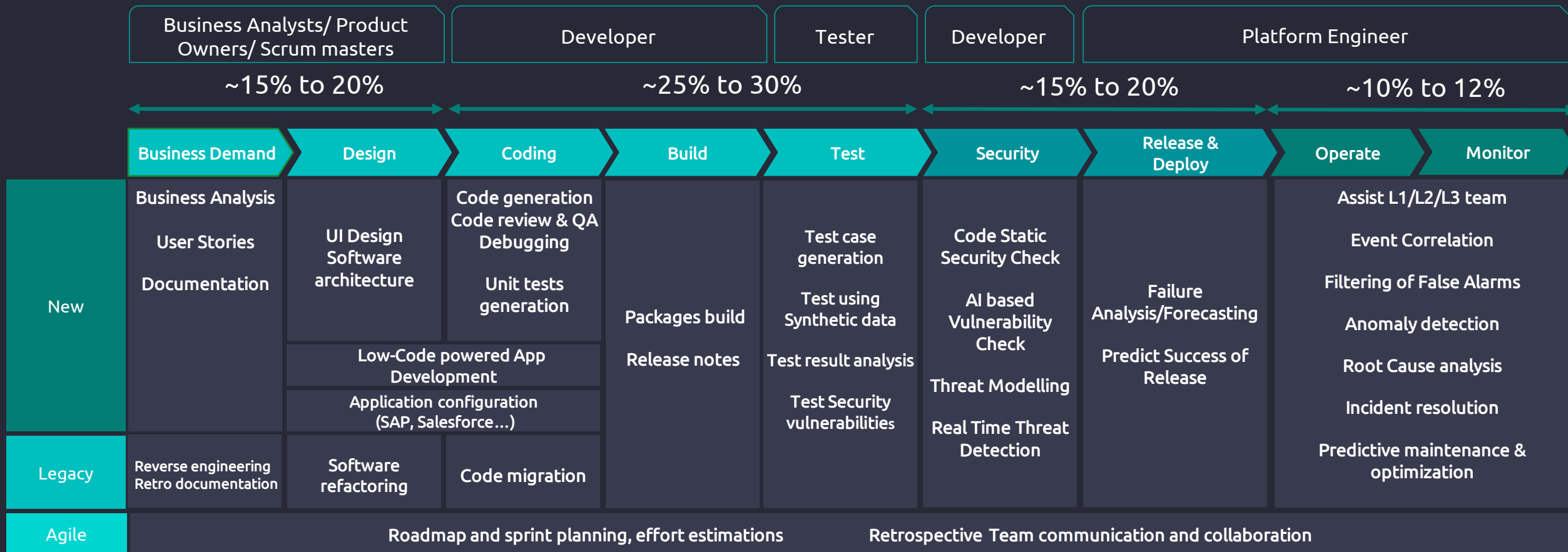
Low complexity



→ **Piloting and Experimenting is essential in a fast-moving context**



Generative AI impacts the full Software Development Lifecycle



AI Augmented Dev Tool



GitHub Copilot

GENAI FOR SOFTWARE ENGINEERING(SWE) OFFER



GenAI Adoption covers full adoption of GenAI-augmented pair programming tools across the enterprise to directly enhance business outcomes through GenAI

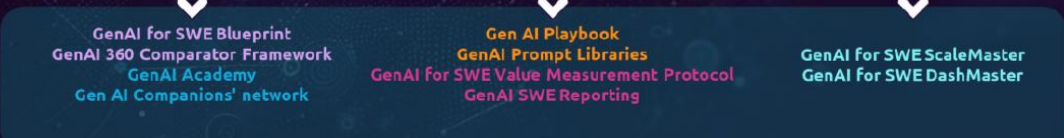


GenAI Adoption

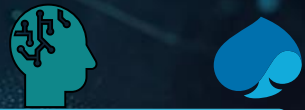
- **6-Step journey** for adoption
- **10 Assets** to facilitate this adoption
- **3 Phases** to the offer
 - ✓ *Pilot*
 - ✓ *Pre-Scaling*
 - ✓ *Scaling*

The enterprise GenAI adoption journey has six distinct stages to facilitate GenAI adoption for any enterprise. Precise assessment of the customer's current stage is essential to delivering the right service.

Leveraging our "GENAI FOR SWE" ASSETS as a base to Accelerate the Journey



GENAI FOR SOFTWARE ENGINEERING(SWE) ENABLEMENT ASSETS



GenAI Adoption

GenAI Tool Management

01 GenAI for SWE Blueprint

Blueprint to onboard GenAI for Software Engineering in any enterprise

02 GenAI 360 Comparator Framework

Comparison between various GenAI augmented pair programming tools in customer environment based on need

People Enablement

03 GenAI Academy

Joining an alumni community for the best practices & REXs share

- Complete a quiz after each module to earn your self-certification and badge!
- Join our network by posting your certification! #GenAIorSWE #Promptengineering
- And become one of Capgemini's certified professionals among our clients and partners

04 Gen AI Companions' network

Our companions can join your Augmented Software Teams and directly collaborate hands-on

GenAI for SWE COE Setup & Scaling

01 GenAI for SWE ScaleMaster

Client agnostic GenAI Scaling framework, Curated to scale GitHub Copilot (Or other AI Pair Programming tool) usage across enterprise.

Project Instrumentation

05 Gen AI Playbook

An operational guide for mastering Conversational Software Development

- Foundations of Generative AI
- Getting started with Generative AI-powered tools
- The basics of Prompt Engineering
- Pairing with the AI
- Correctness

06 GenAI Prompt Libraries

A repository of prompt engineering best practices and patterns for conversational software engineering

Project Execution

07 GenAI for SWE Value Measurement Protocol

Comprehensive Strategy for Measuring Efficiency: Emphasizing on Productivity, Quality, and Developer Feedback

08 GenAI SWE Reporting

Reporting framework and templates for across Teams, Releases and Sprints

GenAI for SWE DashMaster

02 GenAI for SWE DashMaster

PowerBI Dashboards visualizing Efficiency gains and GenAI for SWE usage telemetry data



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