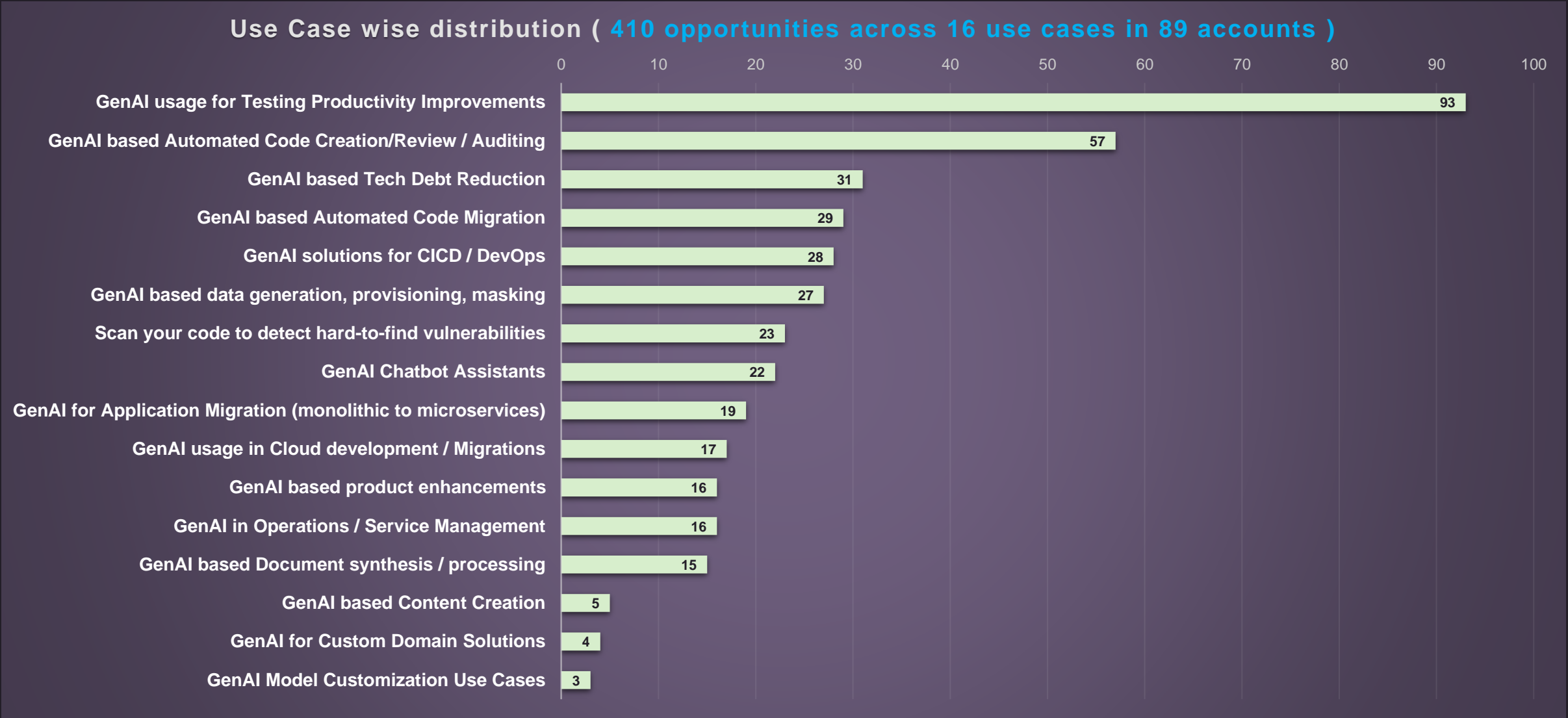


Outcome of Use cases across key GenAI based Engineering improvements levers



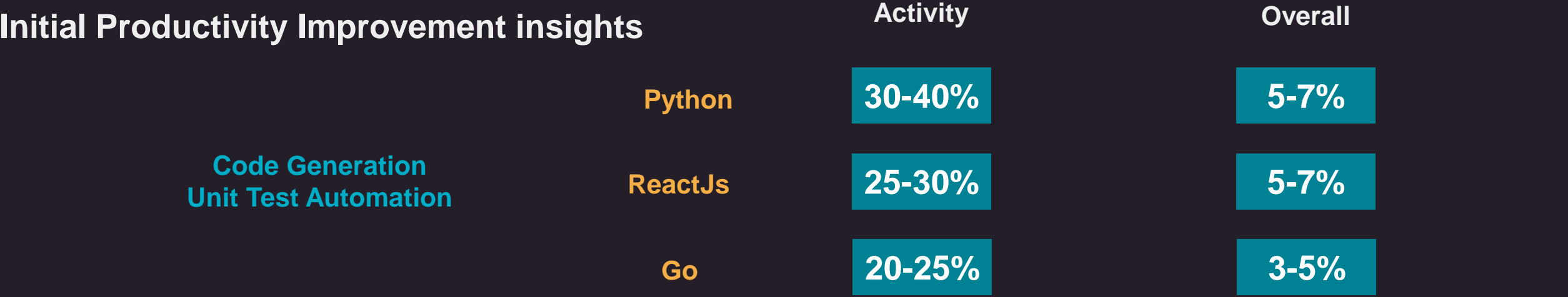
Accelerated Engineering Use case classifications

Code Assist Tools

- \ Automated Code Creation/Review / Auditing
- \ Testing Productivity Improvements
- \ Secure Code Scans
- \ Data generation, provisioning, masking

Transforming Engineering beyond

- \ Automated Code Migration
- \ GenAI based Tech Debt Reduction
- \ Application Migration (monolithic to microservices)
- \ Operations / Service Management
- \ Cloud development / Migrations
- \ GenAI based CI/CD / DevOps
- \ Chatbot Assistants
- \ Document synthesis / processing / content creation
- \ Product Enhancements



Success

- \\ Bio-Rad (CW) – 80% code acceptance for file transfer
- \\ Monogram (CW) – Code Coverage for Unit Testing increased to 70%
- \\ Monogram (CW) –Security scan run for Python Lambda code, found 4 security issues, that were unnoticed earlier

Limitations

- IDE used – Pycharm, Language - Python, boto3
- Objective –
 - Perform authentication of the user through **Cognito**. Once user credentials are passed, expectation was to get access token using **boto3** client. **No suggestions were provided**
 - Developer imported Cognito also; Prompts tried to connect to Cognito using boto3
 - Observation - **No suggestion provided by Amazon Codewhisperer. prompts were tried in multiple ways.**

Issue	No support on	Impacted account
IDE not supported	Eclipse	
	Visual Studio Enterprise	Navman
Languages not supported	.NET Core	
	C	Accelerite
	GoLang	Accelerite
	VTP (Virtual Tape library)	Blastmotion
	Terraform	Blastmotion

Dev

/ Saves around 20 % time during the repeated logics like printing the logs.

Feedback

/ Generates code with proper comment, which makes it easier for developers to understand.

/ Increased my productivity by at least 30% by automatically generating the same logics again.

/ Very addictive

/ Easy to adapt to - can't do without it now

/ 0 syntax errors since started using CW