



# GitHub Co-Offerings

Digital Engineering & Assurance

December 2024

# GitHub Ecosystem Maturity Model

## Stage 2: ADAPTED

Transition from other CI/CD tools to via **GitHub Actions**  
 Defined a **release plan**  
 Leveraging GitHub **Codespaces** and **Copilot**  
 Utilizing GitHub **projects and issues** for project management

## Stage 4: OPTIMIZED

Leveraged **GitHub Insights** for data-driven decisions  
 Implemented **touchless PROD deployments**  
 Minimized release failures and ensured **quick failure recovery**  
 Automated test suite in pipeline  
 Automated GitHub operations  
 GitHub Copilot Impact Assessment Dashboard.

## Stage 1: INITIAL

Migration from other repositories to GitHub  
 Established **branching, merging strategy & code review processes**  
 Controlled communication with GitHub project and issues

## Stage 3: DEFINED


Established benchmarks and maturity levels  
 Reusable GitOps workflows  
**GitHub advance security**  
 Secret & code scanning  
**Dependabot** security alerts  
 Centralizing build artifacts with GitHub Packages  
 Automated tests and releases in lower environments  
 Decommissioned legacy system

## Stage 5: MATURED

GenAI based unit testing and code review  
 Implemented full **code quality & security checks**  
 Implemented gated deployment automations  
 Integrated **monitoring tools feed to ticketing system**  
 Continuous **service improvement** user stories in every release  
 Implemented **self-service Git operations**  
 Improved knowledge sharing

### Achieve Business value

- Release Consistency
- Release auditability and traceability
- Artifact management
- Team Productivity
- Code quality
- Application security
- Continuous testing
- Continuous learning
- High Availability
- Real-time Dashboards for executives & technical teams (App support, Test and Dev)
- Build & Release time
- Cost of release
- Cost of quality

The background features a series of glowing, curved lines in shades of blue and yellow, creating a sense of motion and depth. The lines are most prominent in the lower right quadrant, curving upwards and to the left. The overall color palette is dark blue, with the light trails providing a vibrant contrast.

Let's get to the  
future, faster.  
**Together.**