



Developer Ecosystem

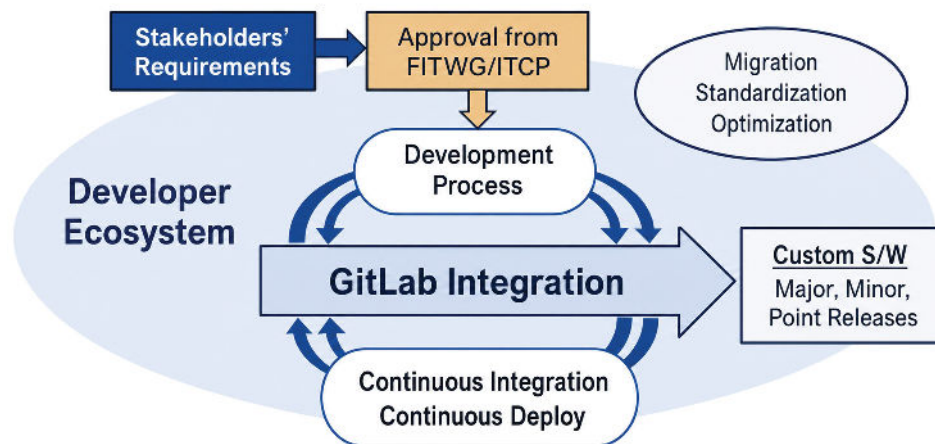
Developer Ecosystem Informational

The Developer Ecosystem (DevEco) is a GitLab-based toolchain designed to support and streamline the full Software Development Life Cycle (SDLC) with a unified suite of tools and automation.

It streamlines secure development, automated testing, supply-chain assurance, and policy compliance across FIT and the broader FOD organization.

Key Tooling

- End-to-end SDLC support with source control, code review, CI automation, and artifact generation.
- Integrated software supply chain and quality tooling, including SBOM generation, SAST, dependency scanning, linting, automated builds, testing, and deployments through standardized GitLab CI templates.
- Policy compliance and governance automation aligned with FOD SMP standards, Project Check tooling, and approved package management across .NET, Python, Java, and C/C++ environments.
- Standardized FIT base images and containerization for secure, consistent CI/CD environments, with future enhancements planned for automated deployments, authentication strategies, and reporting dashboards.



Measurable Outcomes

- Reduced onboarding time for new developers due to consistent tooling and standards.
- Decreased security vulnerabilities through automated and repeatable scanning.
- Improved group cohesiveness and faster debugging due to standardized configurations and reporting.
- Shorter development cycles and reduced costs as automated checks catch issues early.
- Increased code quality and maintainability across repositories.
- Improved release predictability through consistent validation workflows.

