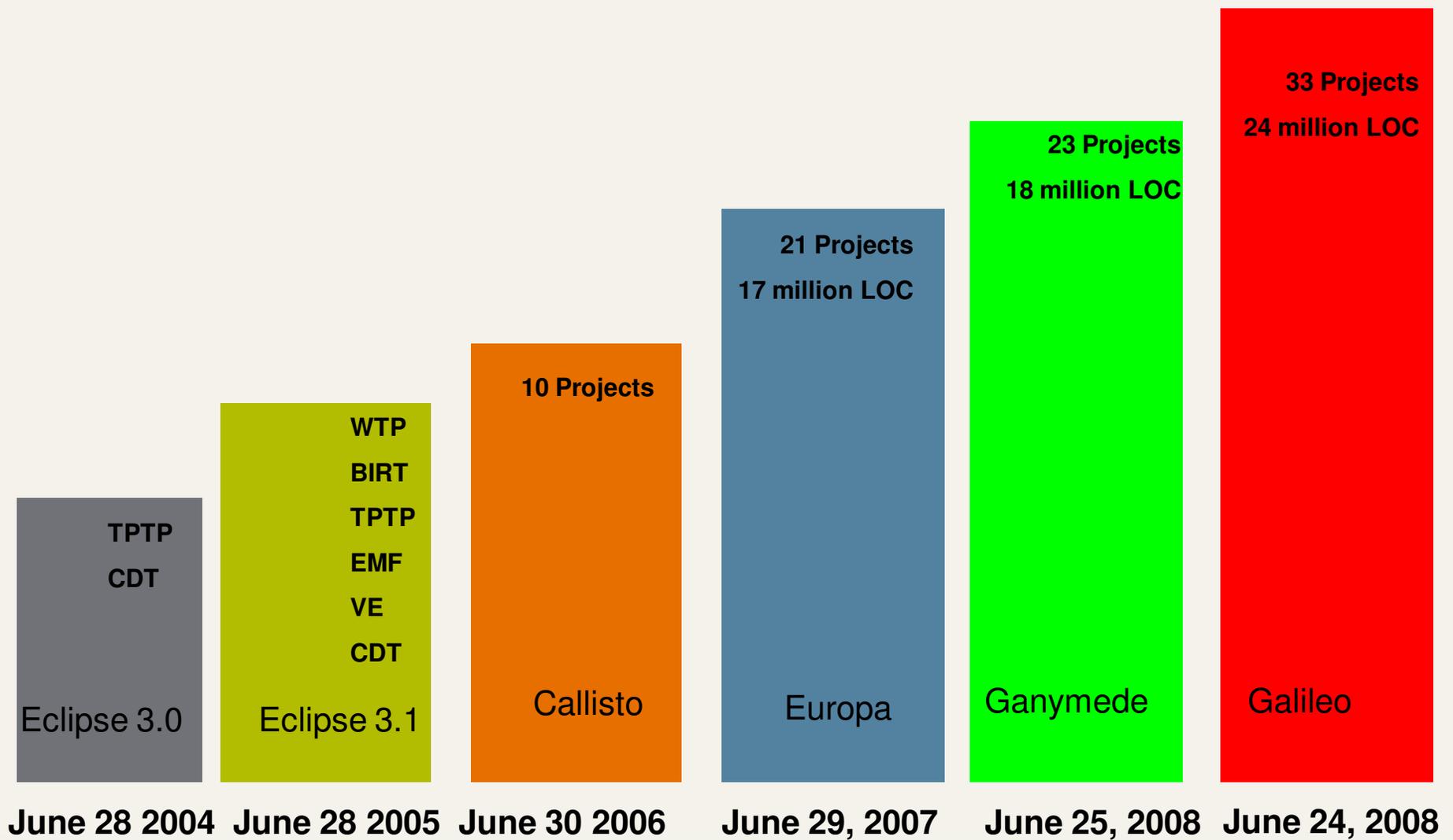

Galileo Release Train 2009

6 Years in a Row



Galileo Stats

- 33 project teams
- 24+ million LOC
- 44 companies providing committers

Why a release train?

- Help spur commercial adoption of Eclipse technology
- Consumers use many projects not just the Platform
- Inter-dependency between projects
 - Eclipse project teams are independent BUT the project code is inter-dependent.
- Alignment of version compatibility
- Remove latency between project releases

How did we make it happen?

- Architecture
 - Modular & Extensible Architecture vs Monolithic Release
- Governance
 - Projects remain independent
- Process
 - Open source development process
 - Frequent milestone releases

Key Themes

- Advancement in Eclipse Runtime Technology
- Growth of Eclipse Modeling
 - Domain Specific Languages
- Expanding Enterprise Adoption

Eclipse Runtime Technology

- **New Support for OSGi in Equinox**
 - Implementation of the new OSGi 4.2 specification
 - Distributed OSGi services
- **PDE Improvements**
 - OSGi Declarative Services tooling
 - Publish to a p2 repository
 - API Analysis Tools
- **Target platform support in PDE**
 - Make it easier to develop software that runs on EclipseRT runtimes
 - EclipseRT runtime SDKs available in Galileo repository
 - PDE tooling
- **P2 Provisioning Improvements**
 - More flexible UI for RCP applications
 - New Publisher tool that make it easier to publish content to repositories

Modeling Domain Specific Languages

- Developers need to deal with a growing set of APIs
 - APIs for different infrastructure services, standards, business standards, etc.
- Domain Specific Languages (DSL) is a special purpose language for a specific problem domain
 - Allows developers to focus on APIs in the specific problem domain
 - Higher level of abstraction reduces amount of code created
 - Microsoft Oslo and M language also do DSL
- Eclipse Xtext allows for the creation of DSLs
 - Create specialized editors, code completion, etc based on the DSL
 - Allows for code generation based on the DSL
 - Eclipse tools become domain specific making it easier for developers to focus on small set of apis

Expanding Enterprise Adoption

- Support for Mac Cocoa 32/ 64 bit and Solaris 10
- Memory Analyzer
 - Helps find memory leaks and reduce memory consumption
- PDT 2.1
 - First PHP IDE to support new PHP 5.3 language release, including namespaces and anonymous functions.
- BIRT report design and performance improvements
- WikiText Editor
 - New editor that understand wiki markup language
 - Allows for help creation, Mylyn bug integration, updating wikis

Galileo Project

EclipseRT Runtime

- Eclipse Communication Framework (ECF)
- Equinox
- Rich Ajax Platform (RAP)
- Riena
- Swordfish

Modeling

- Eclipse Modeling Framework (EMF)
- Eclipse Modeling Framework (EMFT)
- Eclipse Packaging Project (EPP)
- Graphical Editing Framework (GEF)
- Graphical Modeling Framework (GMF)
- Xtext
- Model Development Tools (MDT)
- Model-to-Model (M2M)
- Model to Text (M2T)

Enterprise

- Accessibility Toolkit Framework (ACTF)
- Business Intelligence and Reporting Tool (BIRT)
- Buckminster
- C/C++ IDE (CDT)
- Dynamic Language Toolkit (DLTK)
- Data Tools Platform (DTP)
- EclipseLink
- Eclipse Project: (JDT, PDE, Platform)
- Java Workflow Tooling (JWT)
- Memory Analyzer (MAT)
- Mylyn
- PHP Development Tools (PDT)
- SOA Tools Platform (STP)
- Subversive
- Test and Performance Tools Platform (TPTP)
- Web Tools Platform (WTP)

Mobile

- Device Software Development Platform
 - Target Management (TM)
 - Tools for Mobile Linux
 - Mobile Tools for Java

New Projects to the Release Train

- Accessibility Toolkit Framework
- DSDP Tools for Mobile Linux
- DSDP Mobile Tools for Java
- EclipseLink
- Java Workflow Toolkit
- Memory Analyzer
- PHP Development Tools
- Riena
- Swordfish
- Xtext

Projects Not On the Train

- DSDP Native Application Builder (not enough time)
- DSDP Device Debug (project merged into CDT)