



## Eclipse Project Update

The Eclipse Project PMC



## Strategy

- Seven releases in a row: innovation + stability every year
- Stability vs. innovation
- 3.x for consolidation
  - ◆ stability, scalability,
  - ◆ leverage newer platforms and Java versions,
  - ◆ remain on JVM 1.4,
  - ◆ controlled innovation
  - ◆ 3.4 for Ganymede
- 4.0 for innovation
  - ◆ increase participation to the platform
  - ◆ work in e4 incubator
  - ◆ 2 years time frame
- Equinox to move to RunTime (RT) top-level project

## 3.4 Release Plan

- ◆ [http://www.eclipse.org/eclipse/development/eclipse\\_project\\_plan\\_3\\_4.html](http://www.eclipse.org/eclipse/development/eclipse_project_plan_3_4.html)
- ◆ All planned items marked as committed or proposed. None marked as deferred
- ◆ Eclipse 3.4 will be compatible with Eclipse 3.3
- ◆ Focus on Platforms, Consumability, Reliability and The Future
- ◆ Highlights:
  - SWT 64-bit, SWT WPF port, Linux BiDi, Mac Carbon Internalization & accessibility, product level configurability, provisioning, serviceability, API tooling, security, concurrent compiler and Eclipse 4.0 planning



## Self-assessment

- ◆ Openness and transparency
  - Better on PMC since Jeff left
  - Priority for development, in particular for e4
- ◆ Meritocracy
  - SWT : 2 new committers on SWT (1 IBM, 1 Intel), 1 more in progress (Adobe)
  - Equinox : 13 new committers (5 outside IBM)
  - Platform/UI : 2 new committers (1 outside IBM)
  - Need guidance on revoking commit rights from inactive committers

## Self-assessment

- ◆ Diversity
  - Historically contributed by IBM. Not much improvement.
  - More committers outside IBM, but commits mostly from IBM, with help from BEA
    - ✦ Equinox: 89% IBM, 8% individuals, 1% ProsystSoftware, 1% compeopleAG
    - ✦ JDT: 95% IBM, 4% BEA, 1% individuals
    - ✦ PDE: 82% IBM, 17% individuals
    - ✦ Platform: 98% IBM, 1% BEA, 1% QNXSoftwareSystemsCo.
  - Essential to e4
    - ✦ 4.0 will only occur with help and participation from our community
    - ✦ Already some interest from RAP (Innoopract)
    - ✦ e4 incubator to recruit more committers on the platform



## Self-assessment

- ◆ Compliance with the purposes
  - Best possible API design
  - Extensibility crucial to agnostic platform
  - Platform enhancements must be useful to community at large
    - ✦ Until you have several clients, you do not have an API
- ◆ End user community and adoption
  - Huge adoption today
  - How much adoption for Eclipse 4.0 vs Eclipse 3.x ?
    - ✦ Cannot succeed with participation from multiple companies

## Self-assessment

- ◆ Commercial community and adoption
  - Depended by all other projects
  - Thousands of Eclipse-based solutions across the world (350+ in IBM)
  - How quickly products adapt to newer versions of the platform ?
    - ✦ New capabilities
    - ✦ Increased performance
    - ✦ Scalability, robustness
  - Still too often, platform evolutions mean breakage
    - ✦ Even if strictly compatible by our API charter
    - ✦ Use of internal interfaces means vulnerability to even a service release update
  - 3.x / 4.0 split
  - API tooling (3.4) to allow risk assessment with any component
- ◆ Compliance with the roadmap
  - Deliverables on schedule with planned content
  - In milestone-6 (API freeze); M7 is consolidation and performance

## Board Assistance

- ◆ Improving diversity
  - Not just in 4.0, 3.x needs help as well
  - Update Manager at risk of having zero committers
  - Need more help from OS manufacturers for SWT ports
- ◆ Establishing Eclipse 4.0
  - The future of Eclipse is a big initiative
  - Need help to attract more committers and companies
  - Need to promote the technology for wider adoption
- ◆ Java Compliance Testing
  - JDT contributes a Java compiler
  - Foundation has no license to compliance tests (JCK)
    - ✦ Cannot assess compatibility as part of open-source dev
  - Regressions can be introduced with any change to the compiler
  - Need foundation to own a JCK license