























































# The Traditional Eclipse Technology Stack

Where are we heading?

# The Rich Client Platform Stack Basis

- RCP Platform + Equinox +
  - Eclipse Modeling Framework (for e4)
  - Eclipse Communications Framework for (p2)
  - Jetty (for help)
- Additional “Platform” Projects
  - JDT
  - PDE
  - Team
- Key deliverables
  - Eclipse project p2 repository
  - Eclipse SDK packages

- ›  Equinox Bundles [rt.equinox.bundles master]
- ›  Equinox Framework [rt.equinox.framework master]
- ›  Equinox p2 [rt.equinox.p2 master]
- ›  Equinox p2 Tests [rt.equinox.p2 master]
- ›  Equinox p2 Examples [rt.equinox.p2 master]
- ›  JDT Features [eclipse.jdt master]
- ›  JDT Core [eclipse.jdt.core master]
- ›  JDT Debug [eclipse.jdt.debug master]
- ›  JDT UI [eclipse.jdt.ui master]
- ›  JDT Core Tests [eclipse.jdt.core master]
- ›  JDT Core Test Binaries [eclipse.jdt.core.binaries master]
- ›  JDT Debug Tests [eclipse.jdt.debug master]
- ›  JDT UI Tests [eclipse.jdt.ui master]
- ›  JDT UI Examples [eclipse.jdt.ui master]
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- ›  PDE API Tools [eclipse.pde.ui master]
- ›  PDE Tests [eclipse.pde.ui master]
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- ›  Platform Ant Tests [eclipse.platform master]
- ›  Platform Update [eclipse.platform master]
- ›  Platform Debug [eclipse.platform.debug master]
- ›  Platform Debug Tests [eclipse.platform.debug master]
- ›  Platform Debug Examples [eclipse.platform.debug master]
- ›  Platform Dependency ECF [org.eclipse.ecf master]
- ›  Platform Dependency EMF [org.eclipse.emf master]
- ›  Platform Documentation [eclipse.platform.common master]
- ›  Platform News [news master]
- ›  Platform Resources [eclipse.platform.resources master]
- ›  Platform Resources Tests [eclipse.platform.resources master]
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- ›  SWT Tools [eclipse.platform.swt master]
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- ›  SWT Binaries [eclipse.platform.swt.binaries master]
- ›  Platform Team [eclipse.platform.team master]
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- ›  Platform Releng Tests [eclipse.platform.releng master]
- ›  Platform Releng Aggregator [eclipse.platform.releng.aggregator master]

# The Full IDE Technology Stack

- The > 70 SimRel projects
  - <https://download.eclipse.org/oomph/archive/simrel/>
- Key deliverables
  - The release repository, composes
    - The SimRel train repository
    - The EPP repository
  - The EPP packages
  - The Eclipse Installers
    - Updated catalogs based
      - the release repositories
      - the Eclipse project repositories

- ▷ Eclipse Buildship 1
- ▷ Eclipse CDT 44
- ▷ Eclipse Collections 2
- ▷ Eclipse DLT 7
- ▷ Eclipse Data Tools Platform 36
- ▷ Eclipse EGit 5
- ▷ Eclipse EclEmma 1
- ▷ Eclipse Embedded CDT 16
- ▷ Eclipse Equinox Project 9
- ▷ Eclipse GEF 65
- ▷ Eclipse JGit 8
- ▷ Eclipse LSP4J 1
- ▷ Eclipse Linux Tools 37
- ▷ Eclipse Marketplace Client 2
- ▷ Eclipse Memory Analyzer 2
- ▷ Eclipse Modeling Project 412
- ▷ Eclipse Mylyn 32
- ▷ Eclipse OCL 28
- ▷ Eclipse Oomph Project 21
- ▷ Eclipse PDT 6
- ▷ Eclipse PTP 27
- ▷ Eclipse Passage 17
- ▷ Eclipse QVTd 6
- ▷ Eclipse RCP Testing Tool Project 16
- ▷ Eclipse SOA 3
- ▷ Eclipse Scout Project 1
- ▷ Eclipse TM Project 8
- ▷ Eclipse TM4E 2
- ▷ Eclipse Trace Compass 8
- ▷ Eclipse VIATRA Project 28
- ▷ Eclipse Web Tools Platform 55
- ▷ Eclipse Wild Web Developer project 3
- ▷ Eclipse WindowBuilder 13
- ▷ Eclipse XWT 2
- ▷ Eclipse Xtend 1
- ▷ Eclipse Xtext 20
- ▷ Eclipse.org 28
- ▷ Eclipse.org - ECF 45
- ▷ Eclipse.org - Equinox 9
- ▷ Eclipse.org - RAP 5
- ▷ Eclipse.org - RedDeer 7
- ▷ Eclipse.org - SWTBot 6
- ▷ Eclipse.org - TCF 3
- ▷ Eclipse.org - Target Explorer 4
- ▷ Eclipse.org - m2e 6
- ▷ Eclipse.org - m2e-wtp 8
- ▷ Sonatype, Inc. 1

# Problems and Risks

- Project starvation and extinction
  - Damages reputation: Eclipse is not a reliable source of technology
- Poor quality deliverables
  - Blocks adoption
  - Damages reputation: Eclipse is buggy
- Contributing factors
  - Poor quality tracking, poor testing, and poor reporting
    - It's too much work, so it doesn't get done properly, and isn't automated
  - Frequent full releases
    - Helps to deliver new features quickly and reduces develop overhead, but...
    - Contributes to disruptive changes and regressions in every release, moving the cost downstream
  - Unstable "APIs" in up stream components create work for downstream components
    - Many things are not possible using purely APIs
    - Lack of respect for consumers
      - If you don't like it, come and fix it yourself
      - Open source principles are used as a weapon