Eclipse Mylyn and Task-focused Continuous Integration

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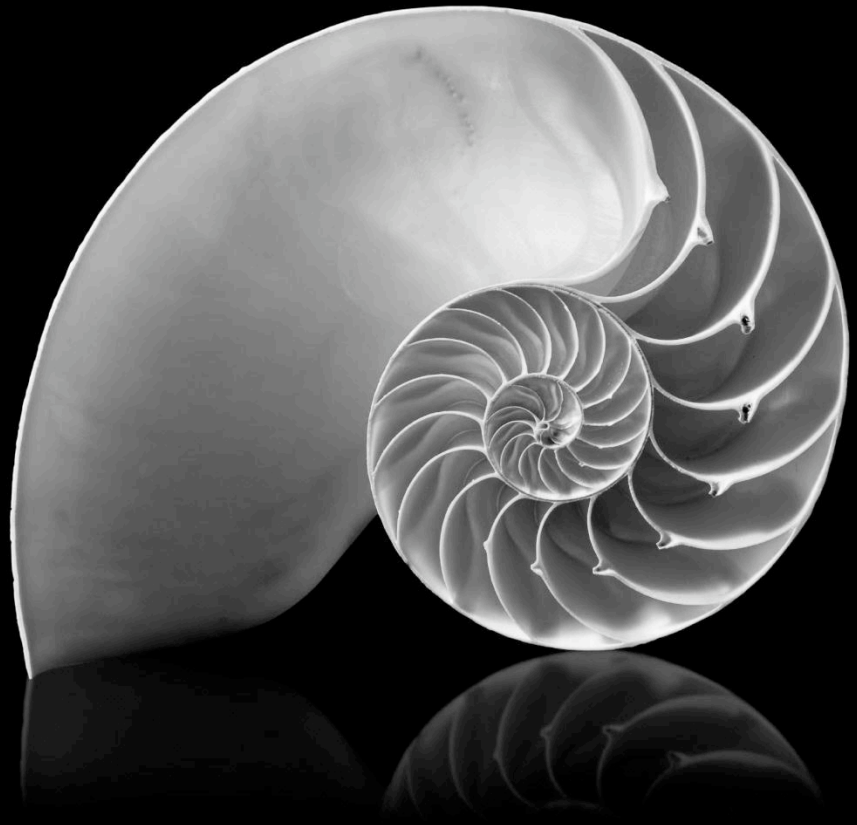
Accidental Complexity

	App Dev	App Lifecycle
Infrastructure	App Servers, PaaS	?
Code	Languages, SDKs	?

Essential Complexity



Problems

- ALM stack heterogeneity due to best-of-breed tool chains
- Dev tools are disconnected
- Dev is disconnected from QA
- Dev is disconnected from planning
- Problems exacerbated at large scales

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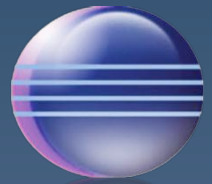

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Open Source

OSS Tool Market Share

Tasks — Bugzilla — Trac — Mantis

Sources — CVS — Subversion — Git

Builds — CruiseControl — Jenkins/Hudson

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Source: Eclipse Community Survey 2010

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Enterprise

- Heavyweight
- Centralization
- Hierarchy
- Predictability

ALM

Open Source

- Lean
- Empowerment
- Transparency
- Velocity

Application Lifecycle Management (ALM)

Requirements Management (RM)

Agile Planning

Quality Management (QM)

Application Development Management (ADM)

Issue Tracking (CM)

SCM

CI

IDE

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- Structure
  - Process
  - Workflow
- Conversation
  - Asynchronous
  - Synchronous
  - Social
- Context
  - Code
  - Builds
  - Documents

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Reading Log...

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Mylyn Frameworks

Tasks	Bugs, issue, stories, requirements
Context	Activity and artifact tracking, focus
Versions	SCM, change sets, and linking
Builds	Releases, continuous integration
Reviews	Task-based code review
Docs	Wiki documentation, transformation

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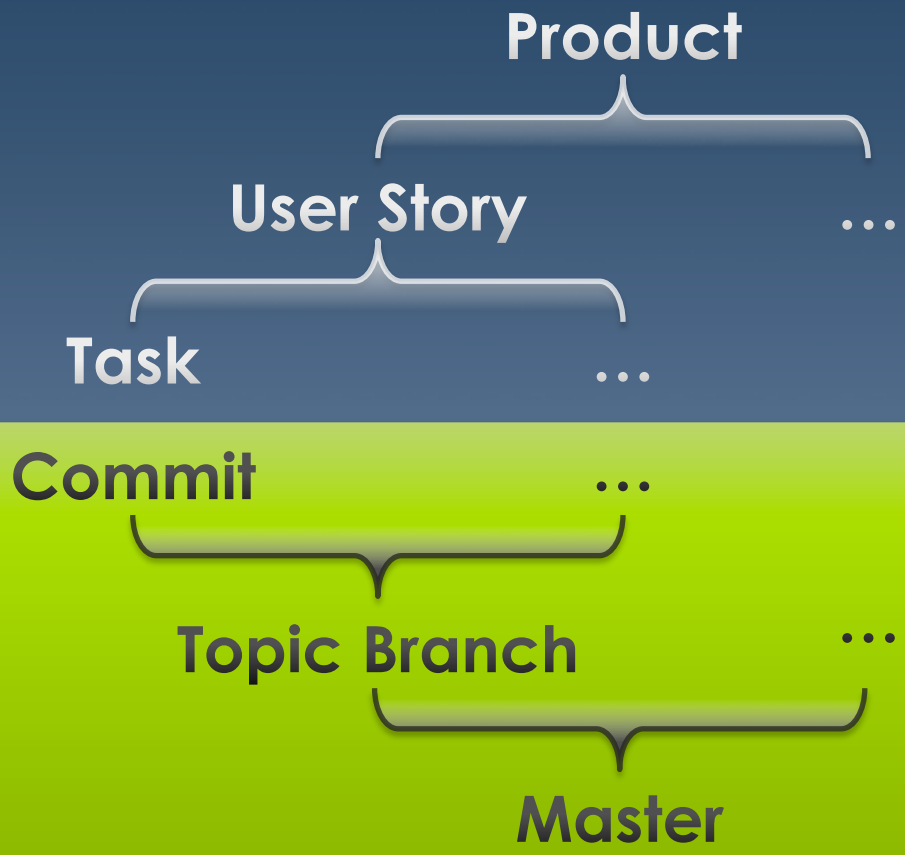
Agile and DVCS

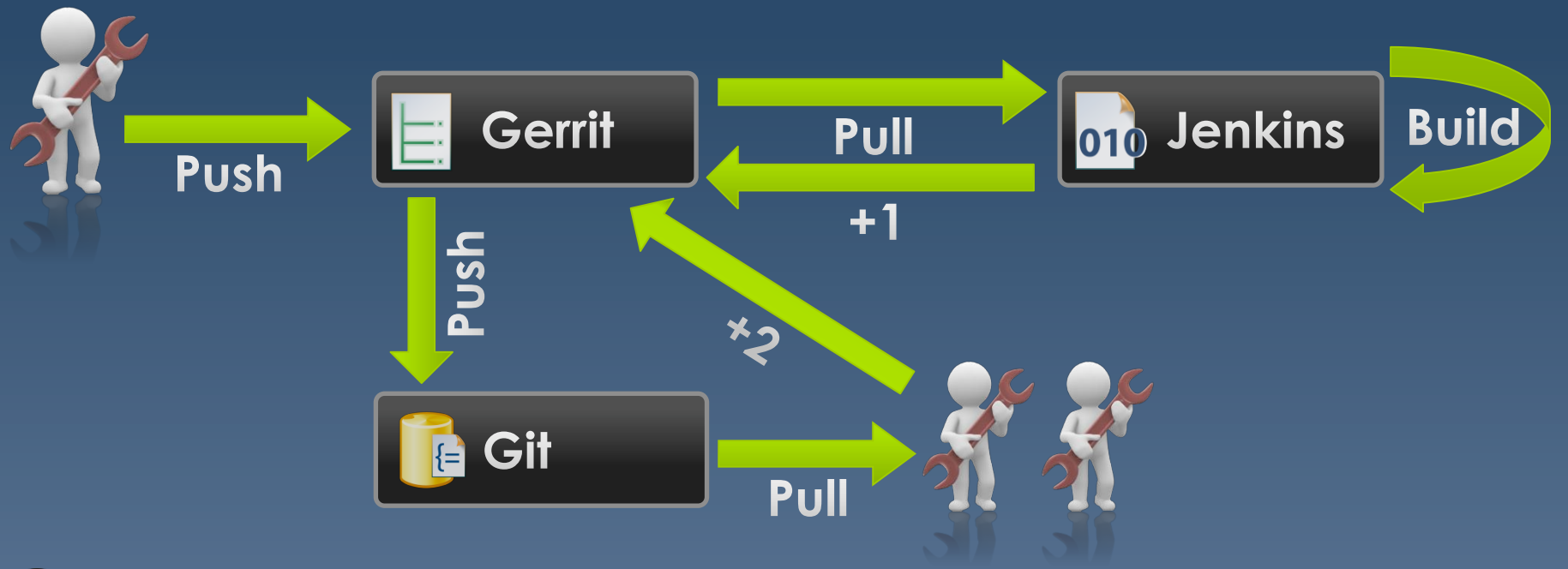


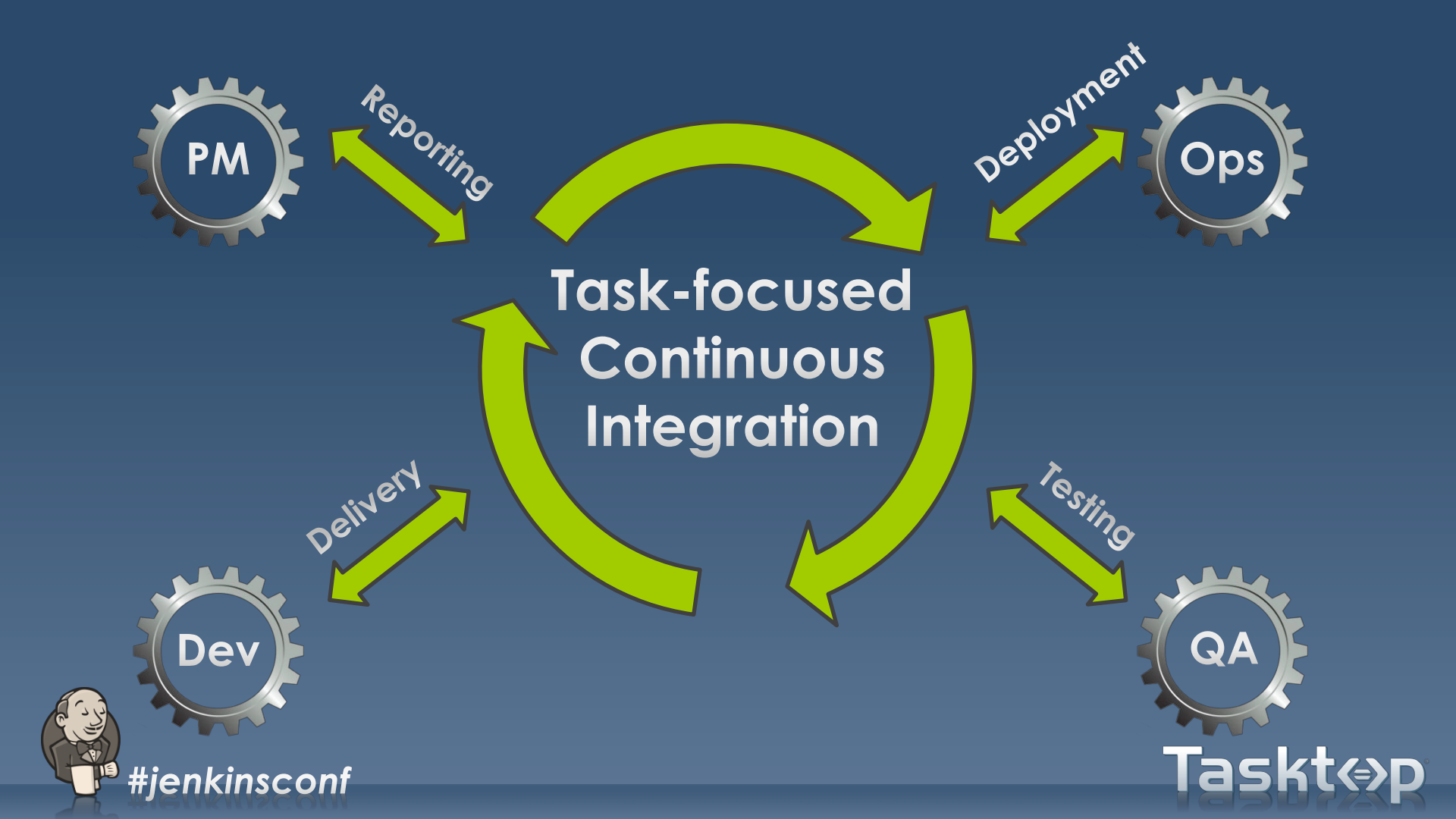
Agile Planning

DVCS History

Continuous Integration

Contribution Workflow




PM
Reporting
Deployment
Ops
Task-focused
Continuous
Integration
Delivery
Testing
Dev
QA
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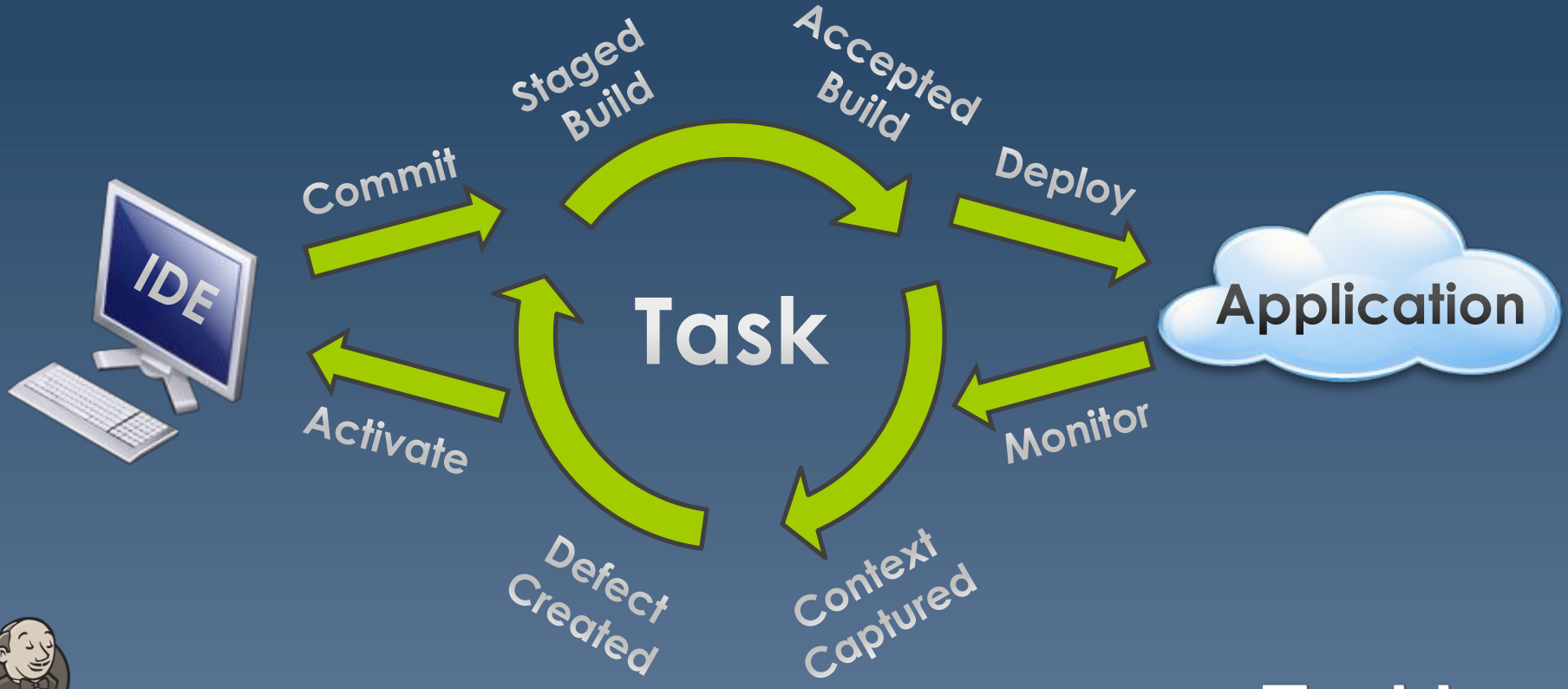
Tasktop

Task-Focused Continuous Integration



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Application Lifecycle Management (ALM)

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SCM

CI

IDE

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Complexity

	App Dev	App Lifecycle
Infrastructure	App Servers, PaaS	Task Federation
Code	Languages, SDKs	Task-Focused Interface

Road ahead

Developers

- Select the tools that make you most productive
- Embrace open source ADM, eg Jenkins, Git, Gerrit
- Connect your open source ADM stack with Mylyn
- Connect your Agile and ALM with Tasktop Dev & Sync

Tool builders

- Embrace open source ADM, plan for integration
- Leverage task-based traceability and collaboration

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