Chris Williams, Oxford Astrophysics

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Software Engineering

Building The SKA Software Products – Quality Assurance & Integration

4th Oct 2016

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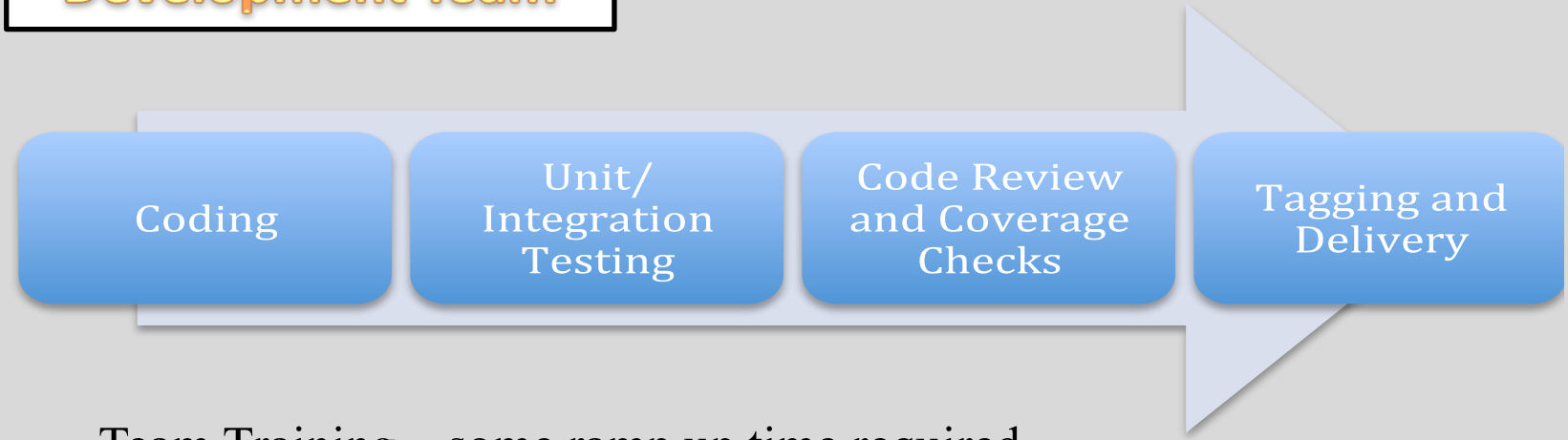
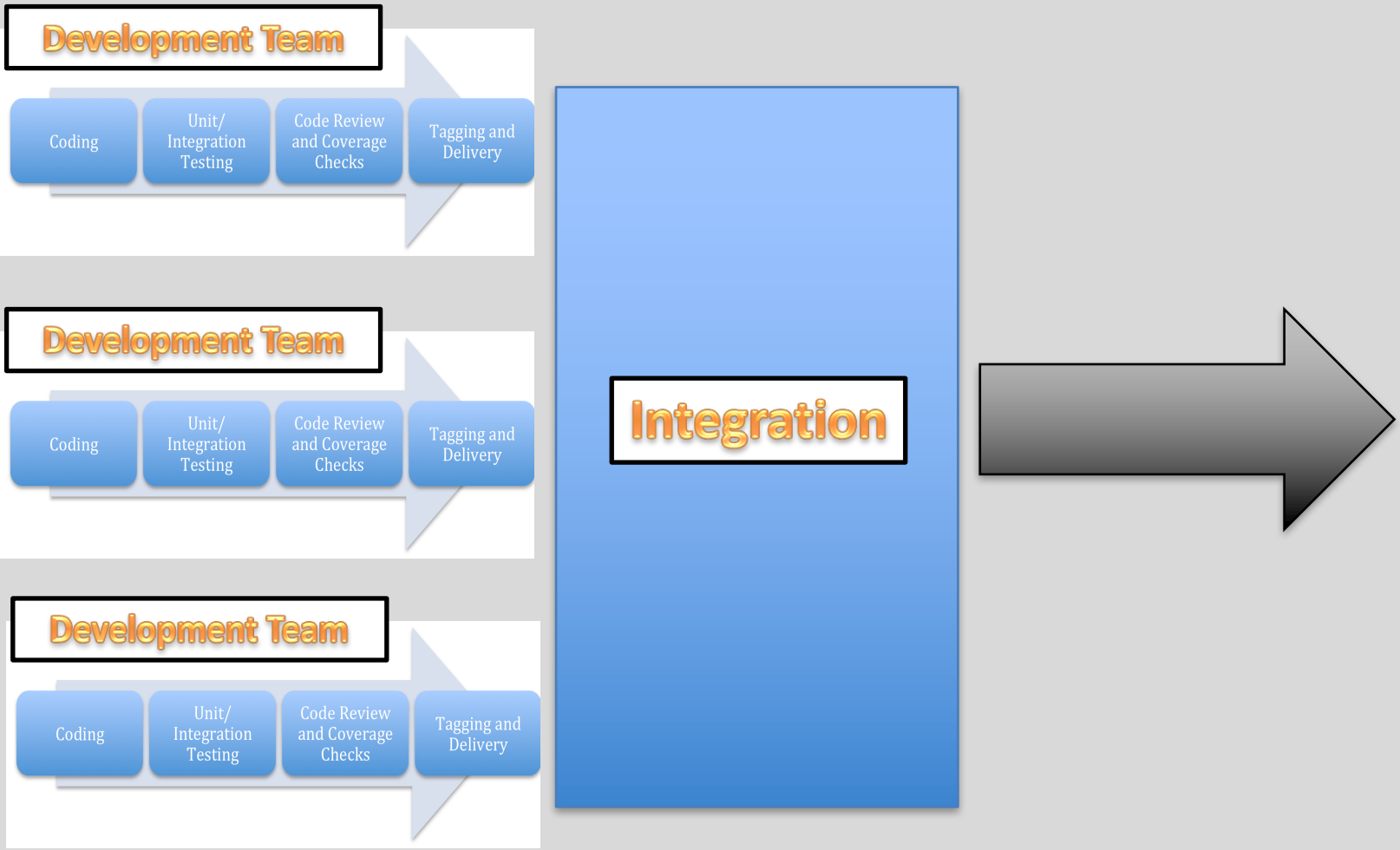
Development Team



- Team Training – some ramp up time required
  - Developers
  - Reviewers
  - Tools and testing facilities (devops)

- Interpretation & Tweaking of the Rules
  - Who is responsible for verifying?
  - Cost of non-compliance?


Development Team
Coding
Unit/ Integration Testing
Code Review and Coverage Checks
Tagging and Delivery
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Development Team
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Integration

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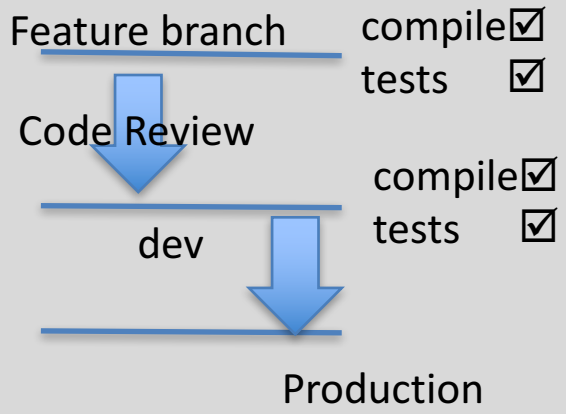
Integration

- Who reviews Integration work?
- Who owns issues?
  - Integration Issues
  - Compliance Issues
  - Test Feedback
  - Acceptance Issues
- Who decides priorities?



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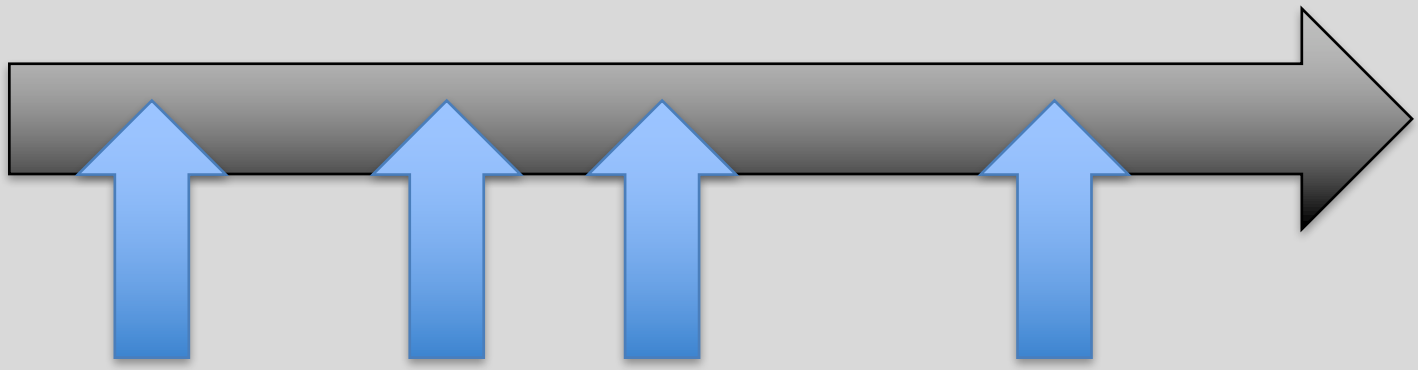
Integration Process

Better More Timely Feedback = Lower Risk

- More Integration Events
- Official Managed Integration Product ***Existing Throughout Development*** "Gold Standard"



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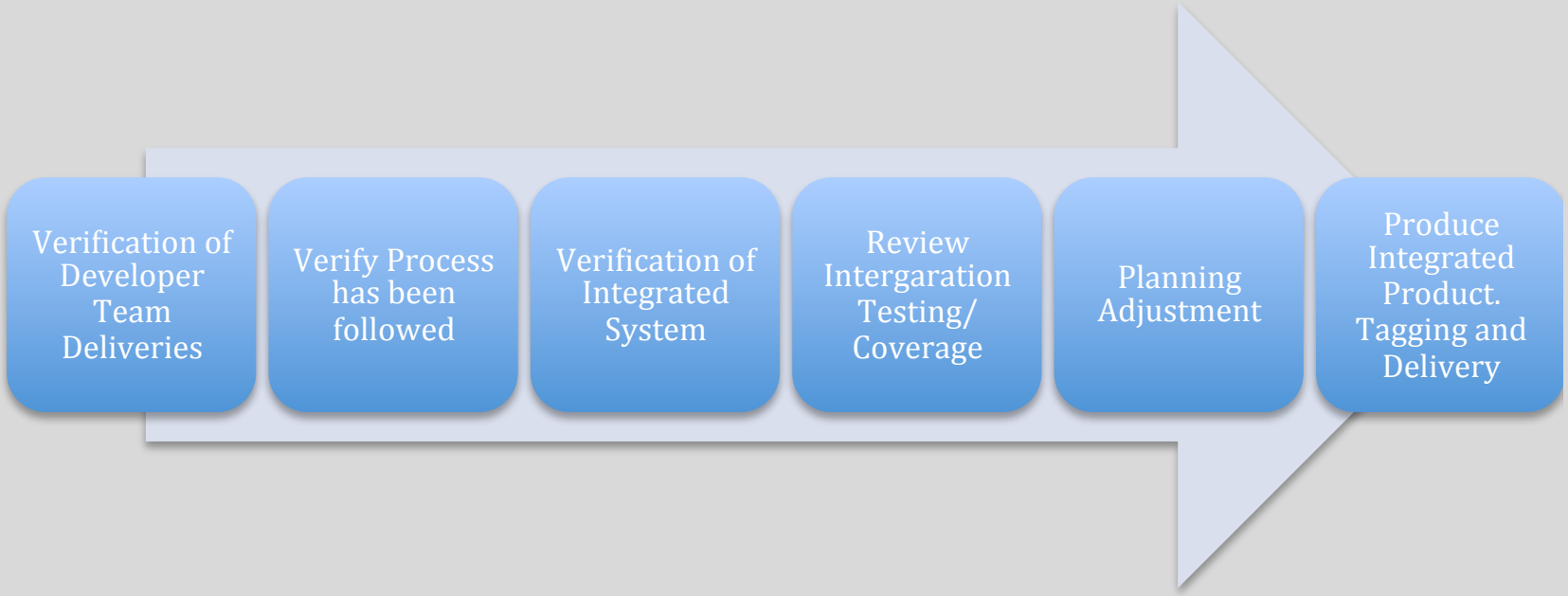
Establish A Permanent Integration Team



Additional Integration Team Responsibilities

- Maintain The Integrity of the Integrated Product
  - Own Issues and follow them up

- Manage Integration Delivery Planning
  - Manage Code Churn
  - Prioritise SCRUMs
  - Own Integration Process
  - Inform progress against Project Plan

- Own QA standards
- Manage the DevOps team