Acquisition Research Program | Acquisition Research Symposium

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# Platform Infrastructure for Agile Software Estimation

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# Platform Infrastructure for Agile Software Estimation

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**How do we balance the conflicting preferences of developers and their overseers?**

# Automation!

**Developers want to develop, overseers want lots of data**

The Software Acquisition Pathway changed reporting requirements for program management data

Freeing developers to spend more time coding and less time reporting → Good!

But how can overseers collect and utilize the information they need without burdening developers?

**Modern problems have modern solutions**

Automation capabilities exist for popular COTS development tools like Jira, GitHub, GitLab, etc.

Parsers can be written for textual documentation

Machine learning can speed up forecasts

# Why not provide these capabilities as enterprise solutions?

# Build on past examples

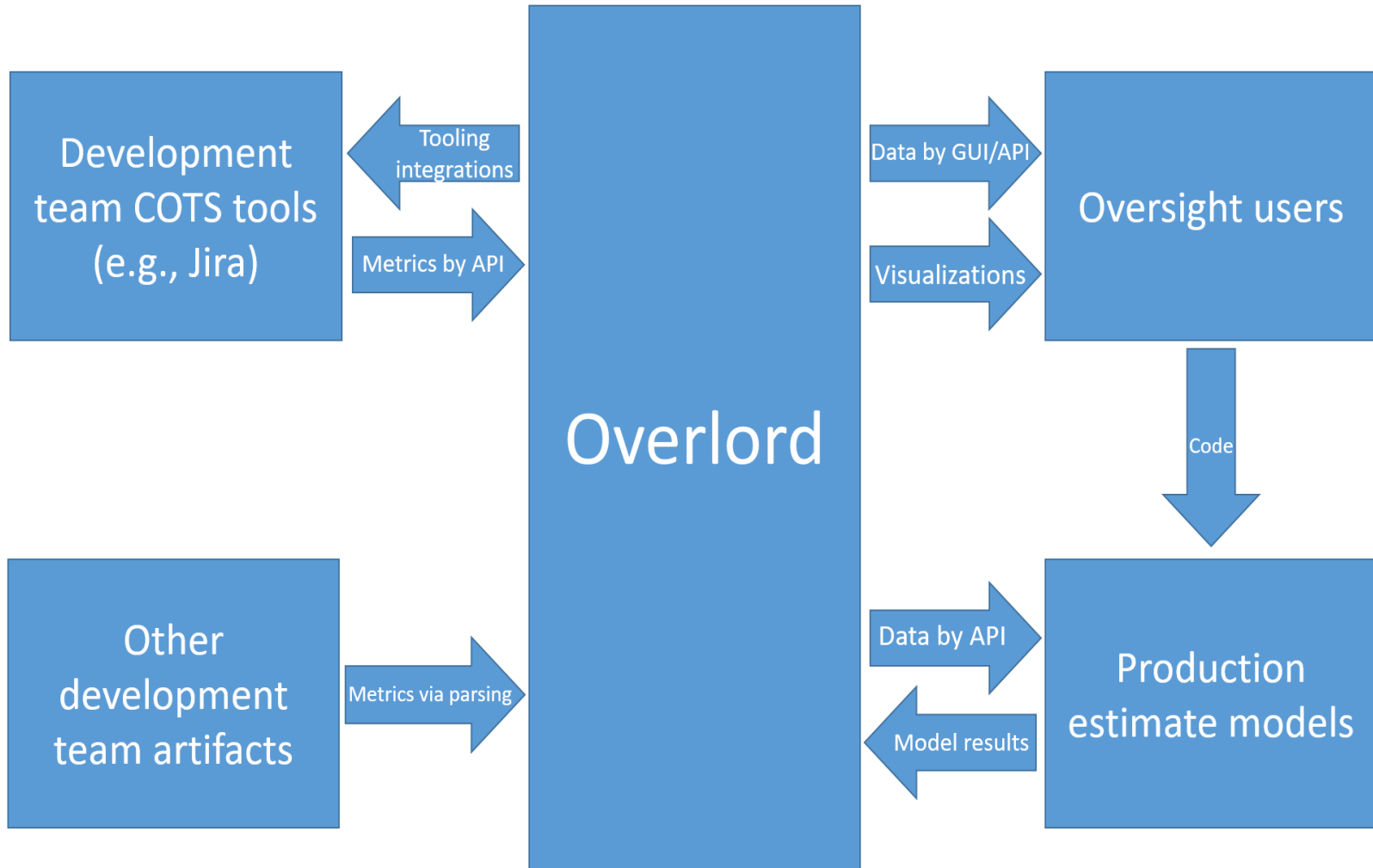|  Platform One  |  CADE  |
| --- | --- |
| Air Force DevSecOps tooling as a service<br><br>Handles boilerplate security and infrastructure needs<br><br><span style="color:red">Not designed for oversight</span> | CAPE data repository for traditional software program reports<br><br>Provides search and visualization capabilities<br><br><span style="color:red">Manual workflows</span> |

# A new* potential platform: Overlord

*Extending CADE may reduce new effort required

# Closing recommendations

OUSD(A&S) and CAPE should collaborate in building any new platform

Utilize talent within CAPE Analysis Data Tools Tiger Team

Follow Software Acquisition Pathway iterative development practices