



Continuous Performance Engineering: Automating Feedback from Ops to Dev and Test

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- “From Cambrian to Cretaceous”
 - Performance Testing improvements
- “Attack of the Mammals”
 - Tests that adapt better



- Good times!
- Classic limitations of performance testing are under attack!
 - Environment is not realistic
 - Test is not realistic (script, data, coverage)
 - High maintenance effort
 - Test is not flexible enough (e.g. tests only a few situations)
- Continuous Performance Testing bringing real improvements to projects



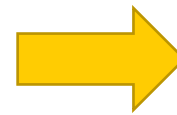
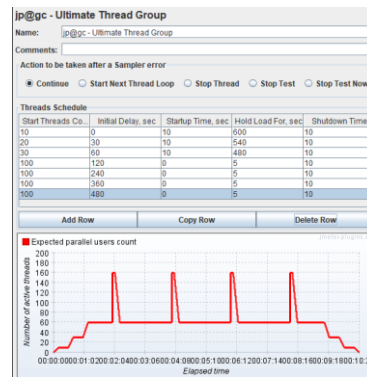
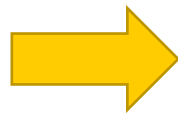
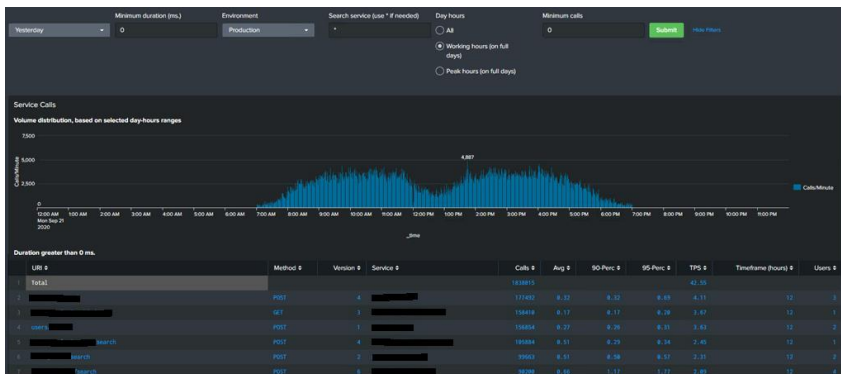
- Test scenario design is a problem
 - Time-intensive
 - Prone to Error
 - Inflexible
 - Low Usability



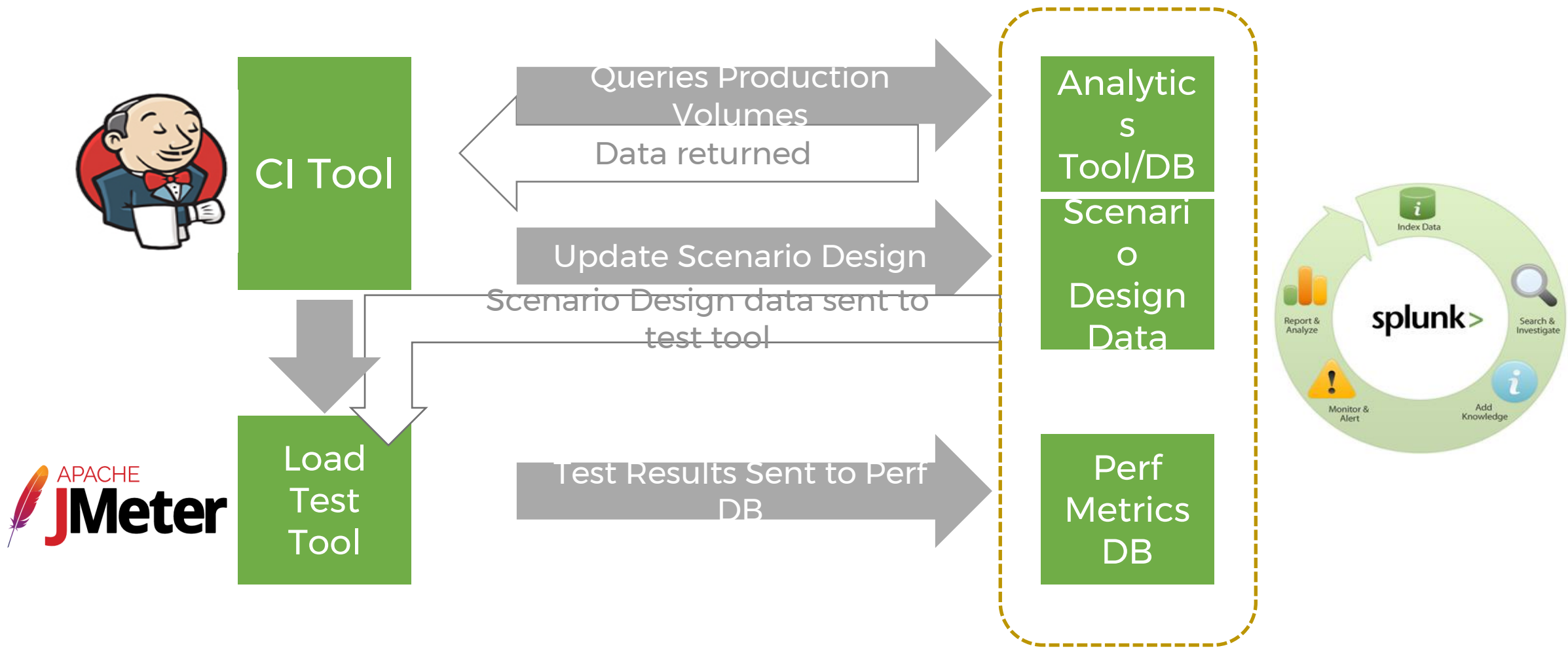
Improving Test Scenario Design



- As a performance engineer, I want to:
 - Automatically update the test scenario parameters (numbers of virtual users, pacing etc) from a file (e.g. YAML)
 - Also do the above based on a query returning data on production volumes
 - Have all data (volumes, SLO/SLA, metadata, results) in my performance metrics database to speed up/automate analysis



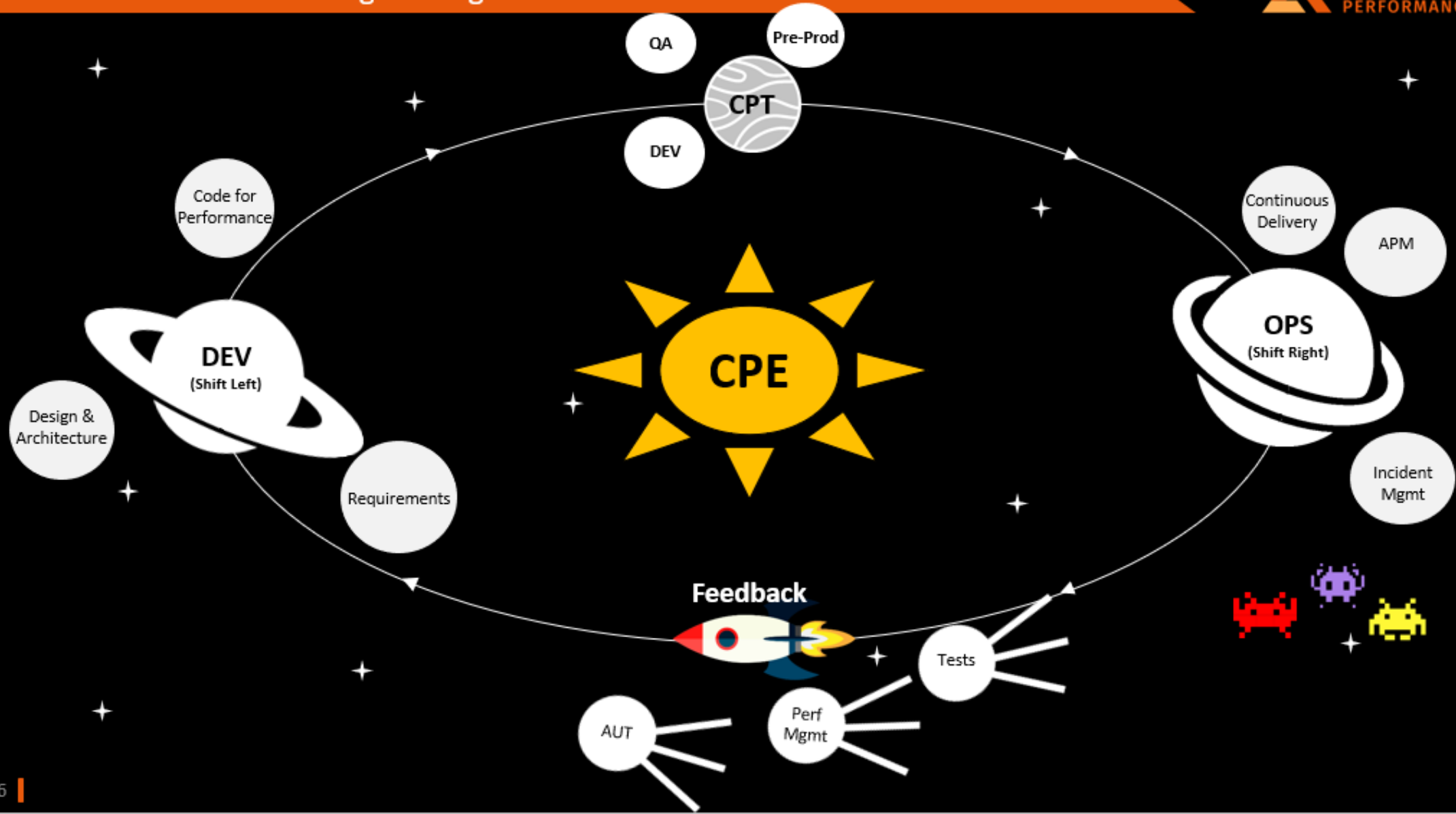
Solution Design



Context Within CPE Process



Continuous Performance Engineering – A Universal View



- Test scenario design is frustrating!
- We propose one way to improve it
 - Reduced time, improved usability
 - Improved ability to automate
 - Wider range of use cases
- One small improvement towards Continuous Performance Engineering

