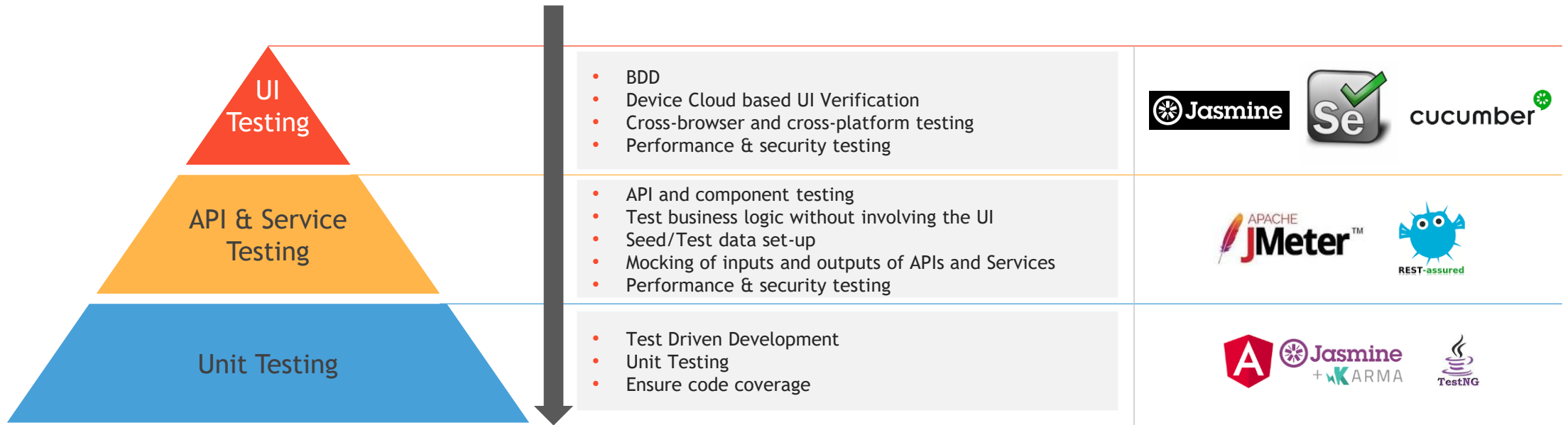# Test Automation Methodology

Continuous delivery of products requires a pipeline to automatically test software and deploy it to testing and production environments

- Automation Strategy with testing spread across three levels to maximize automation and optimize ROI
- Highest Automation at Unit Testing and automation reduces from UT to UI Testing.
- The intention is to push maximum testing/automation to UT level to improve product stability

UI Testing
- BDD
- Device Cloud based UI Verification
- Cross-browser and cross-platform testing
- Performance & security testing

API & Service Testing
- API and component testing
- Test business logic without involving the UI
- Seed/Test data set-up
- Mocking of inputs and outputs of APIs and Services
- Performance & security testing

Unit Testing
- Test Driven Development
- Unit Testing
- Ensure code coverage

Framework Adapted based on "Test Automation Pyramid" by Mike Cohn