DevOps

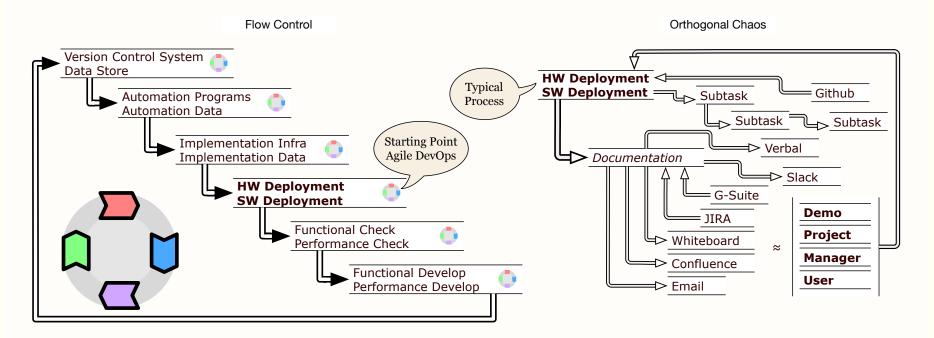
Ordinance: Rapid Resource Implementation

Problem: **Data, Provision, Instantiation, Management, Geometric Scaling Delay**

Solution: Continuous Deployment Automation,
Hybrid Dual-Vee Checks with Good Automated
Manufacturing Practice Guidance

Integration and Bootstrap Development

Bootstrap, Flows, Configuration, Performance, Checks



Four Pillars

Risk

Stake Gap

Challenge
Irregularities
Misalignment
Inefficiencies
Complexity
Unknowns
Changes
Security

Design

Architect Plan

Solution
Process
Definitions
Automation
Requirement
Specification
Version
Flows

Execute

Engineer Deploy

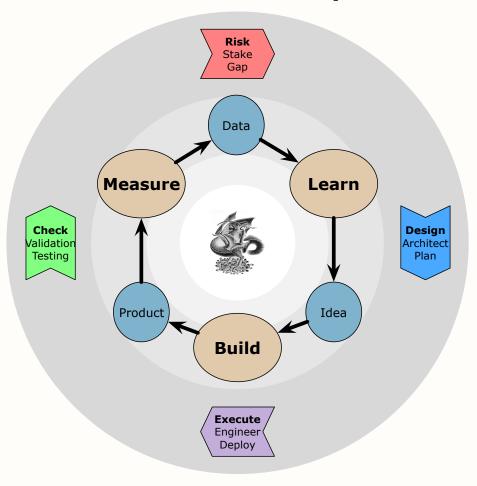
Data
Inventory
Provision
Assembly
Automation
Guidance
Hardware
Software

Goal

Validation Testing

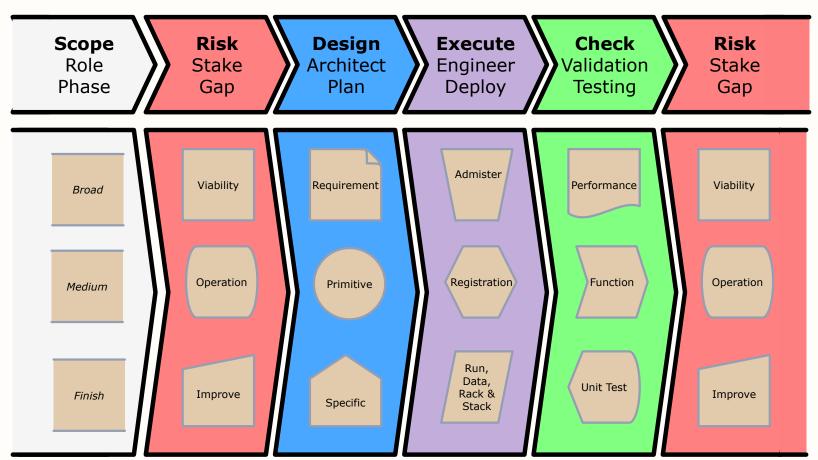
Testing
Monitoring
Integration
Qualification
Observations
Performance
Compliance
Acceptance

Feedback Loop

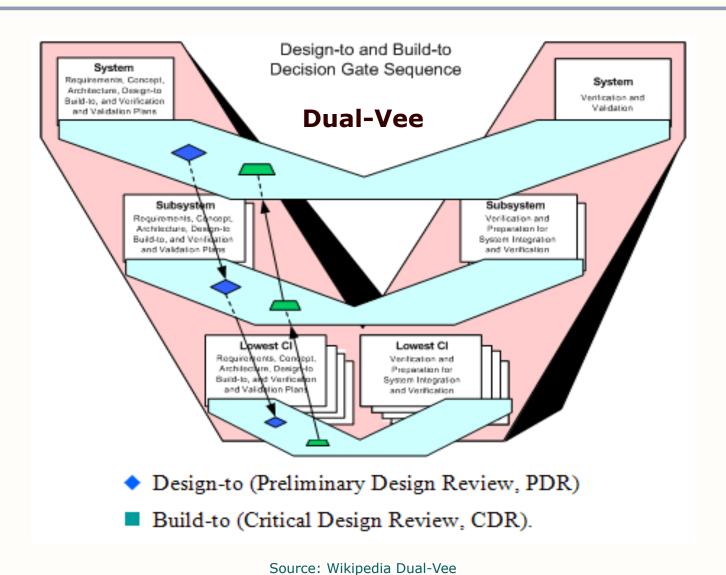


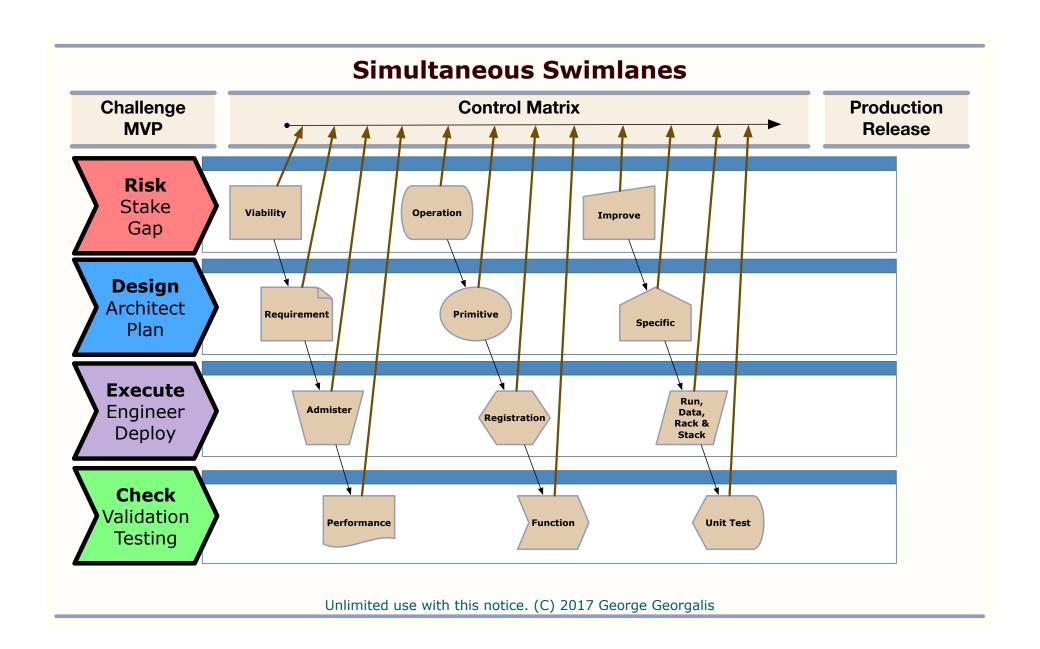
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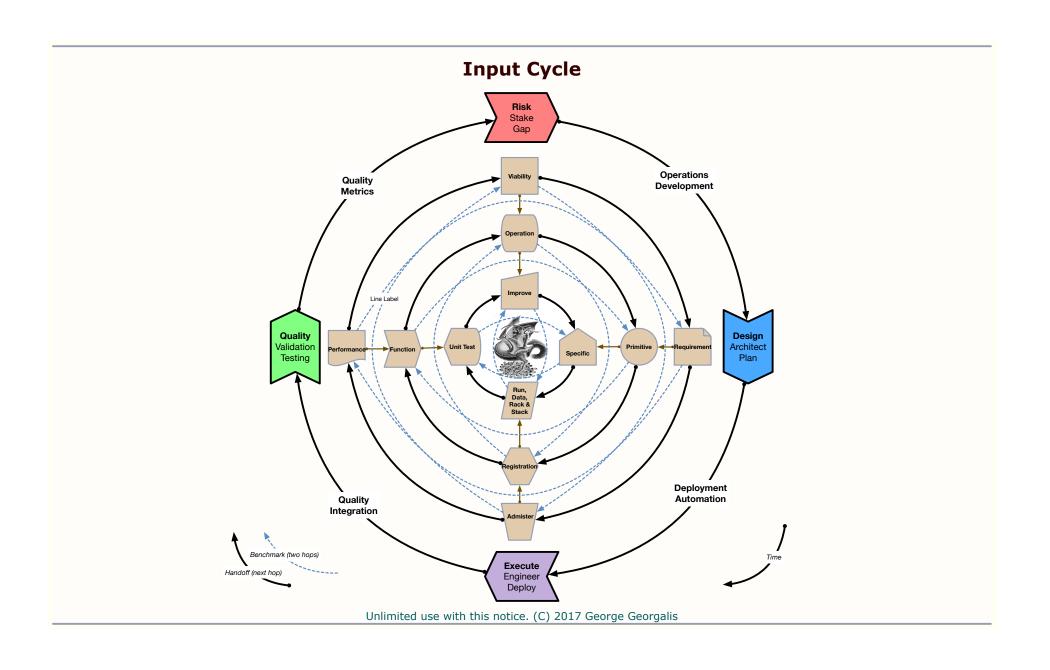
Continuous Operations

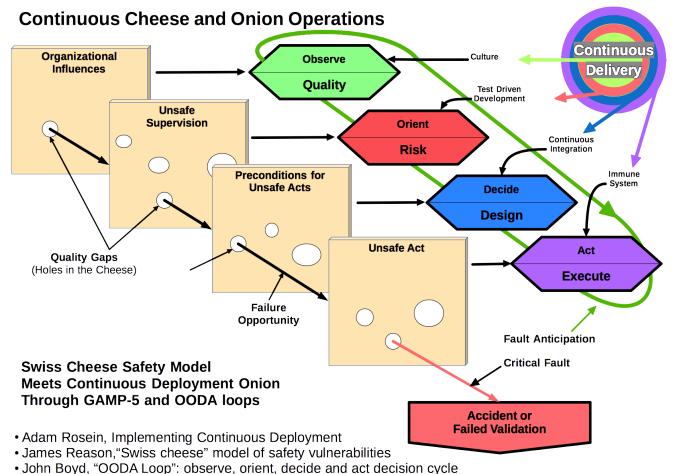


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- ISPE, GAMP-5: A Risk-Based Approach to Compliant GxP Validation