Proceeding Operation of the Unprecedented Process

Mandate: **Ready Agile Systems**

Ordinance: **Deploy, Twin, Control, Scale, Change (Details, Systems, Duplication, Maintenance)**

Solution: **Input Risk Coherence, Requirement Based Assurance, Narrative Control, Exception Prevention, Automation and Anticipation**

Value: **Efficiency, Improvement, Elastic Scope, Quality Validation and Robustness, Expectedness**

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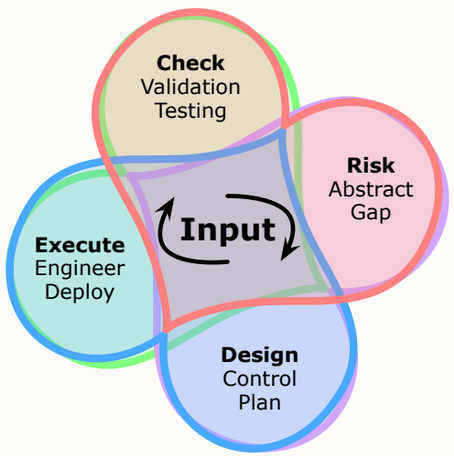
Eliminate Exceptions Success System (Tracing Minimum Objective Plan)

Input Drives (**Objective**)

Design/Check (**Development**)



Execute/Risk (**Operation**)

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Repeating Patterns of Input Cycles

*** Improved Objective is Success……**

*** Successive Inputs Promotes Ongoing Return…**
Due to Ongoing Improvements Limitations……

Little's Law Overall improvement is the limit of process development value

Theory of Constraints Unconstrained systems have unlimited performance

Conway's Law Organization designs are copies of the the systems within the organization

Gold’s Law Nothing goes as planned because the outcome takes precedence over the process

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Computer Science Oxymoron (Alan Kay)

ABC Option Testing (Risk Adverse)

Empirical Plan (Crowdsource, Multi-perspective)
Last/Loudest Reconciliation (Best/Average Consensus)
Confrontation Consequences (Ample Unanalign)
Iteration of Integration (Vector Addition)

Computer Engineering Design (Risk Plan)

Operational Control (Objective requirement)
Tool Alignment (Development)
MVP/Purpose built (Operation)

Scientific Method (with Success System)

1) Observe (-> Input)
2) Assert (-> Plan)
3) Hypothesis (-> Execute)
4) Predict (-> (Check)
5) Test (-> Risk)
6) Iterate (-> Product)

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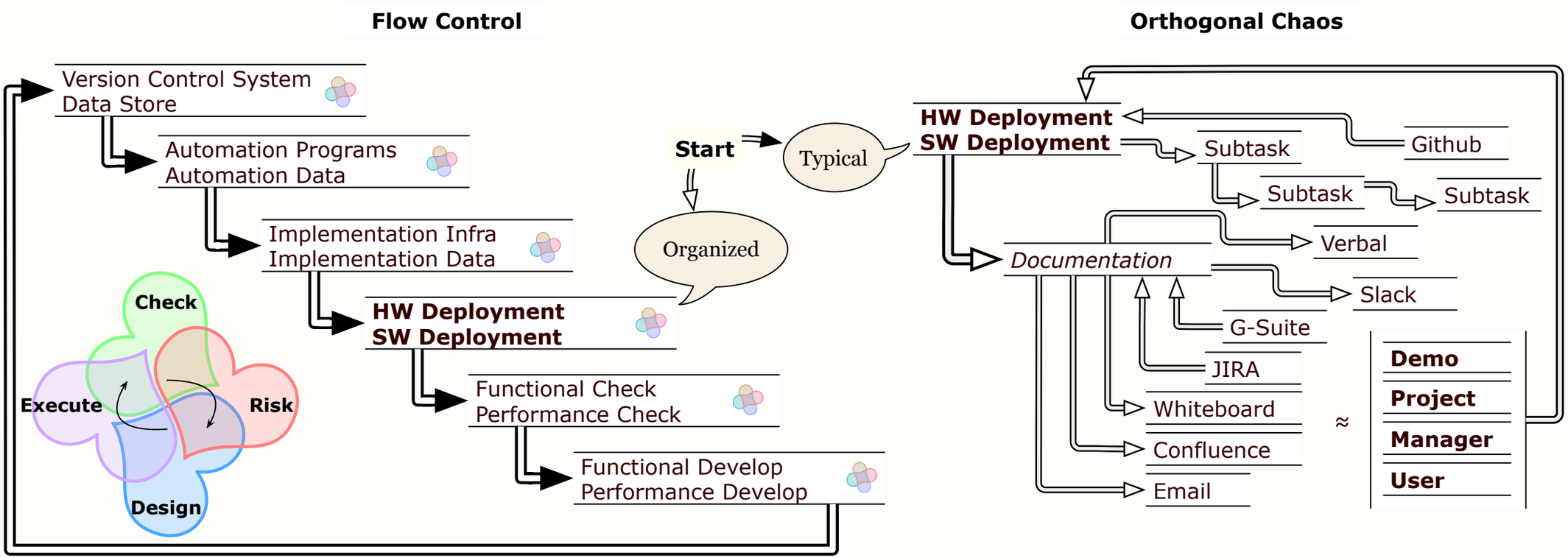
Bootstrap Deploy Iteration

Flows, Configuration, Performance, Checks



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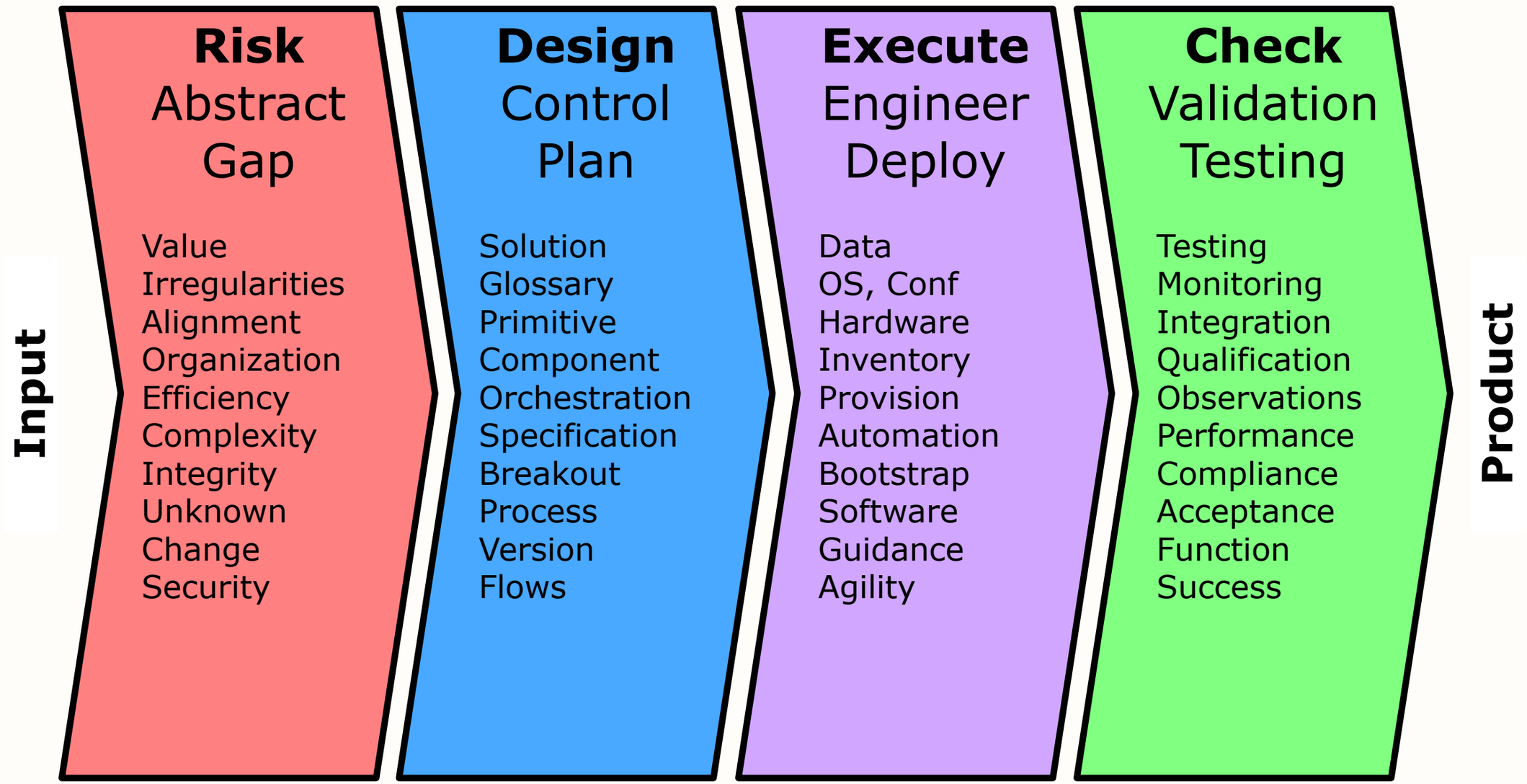
Four Phase Process System



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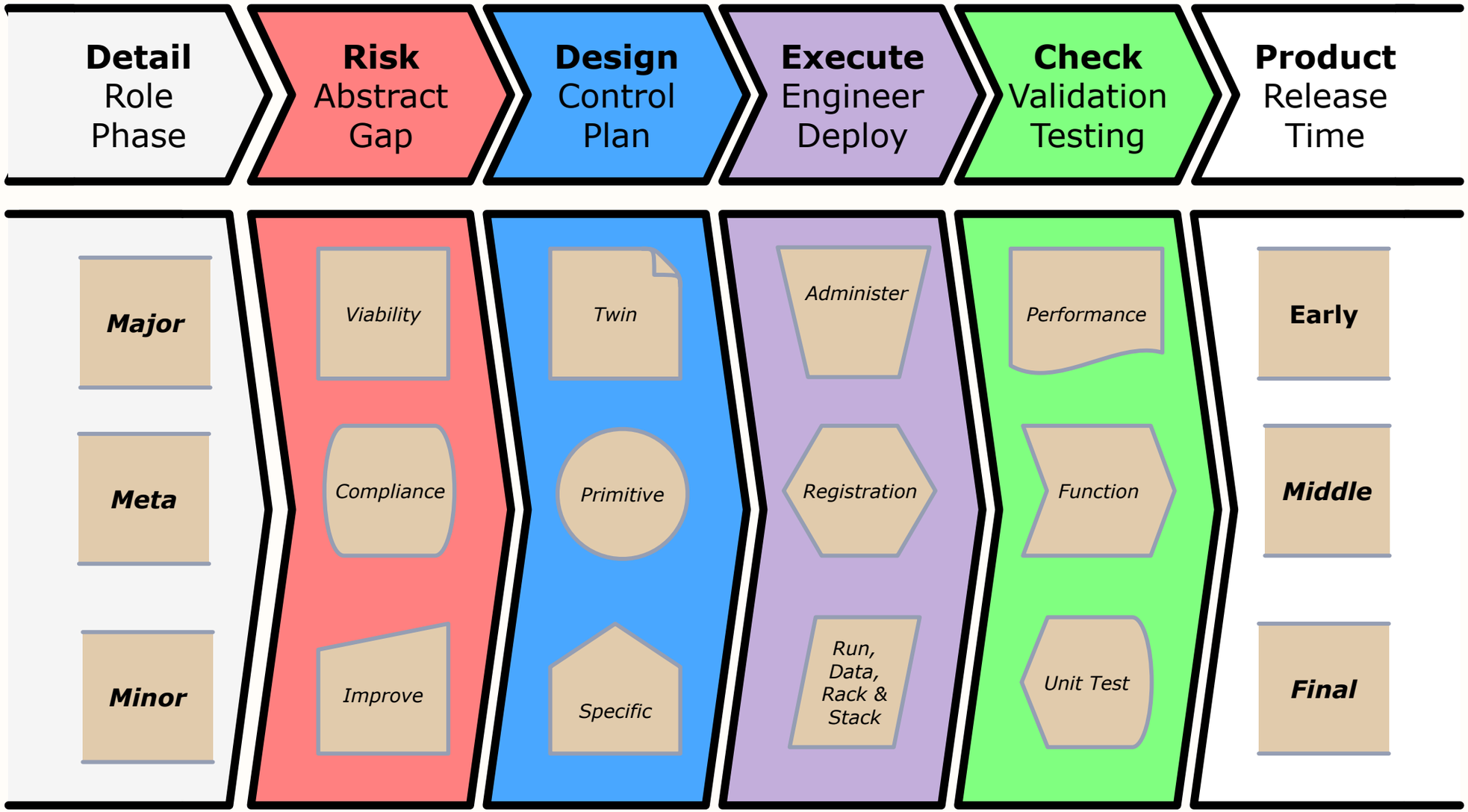
Continuous Delivery



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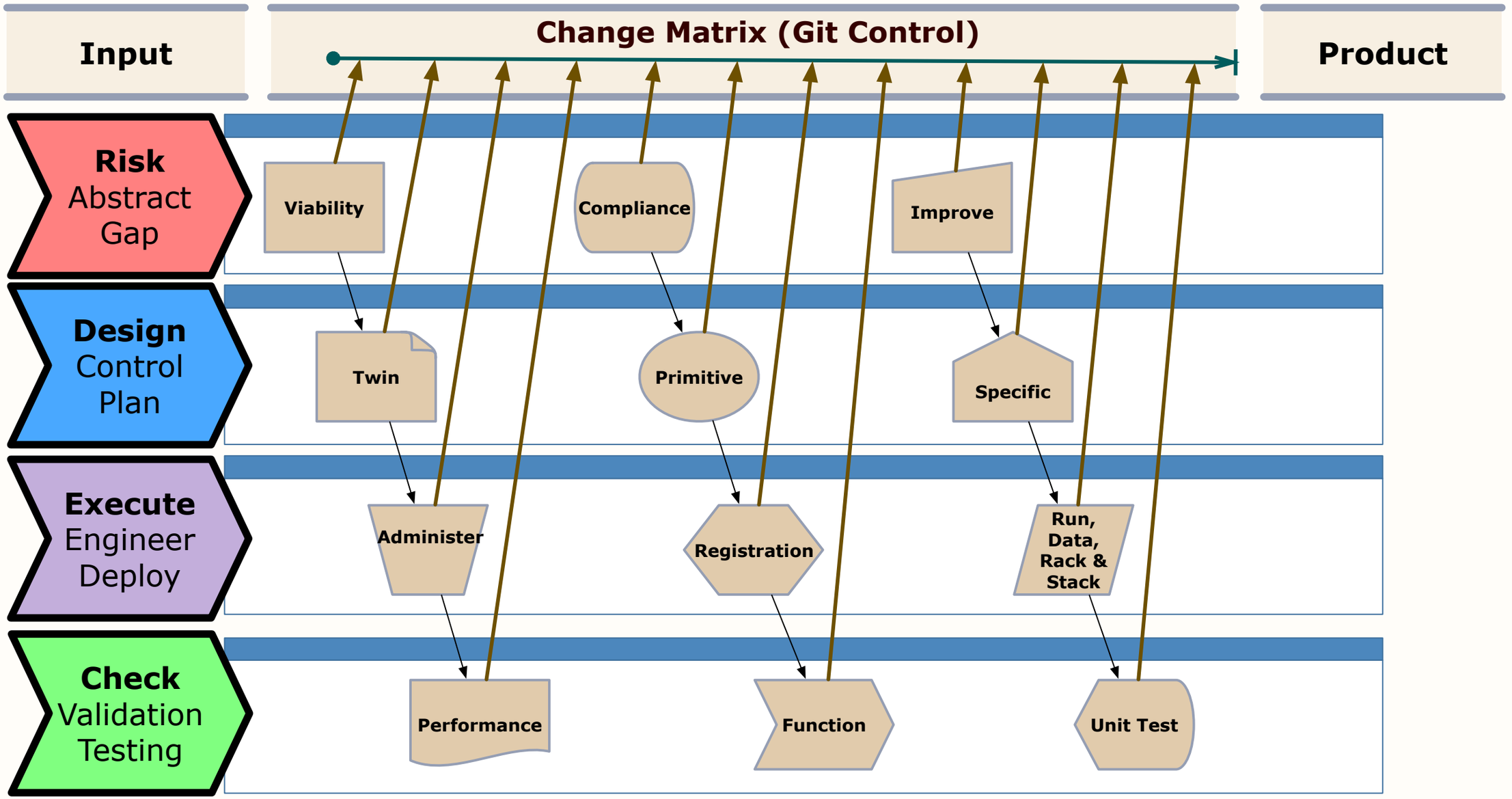
Objective Improvement



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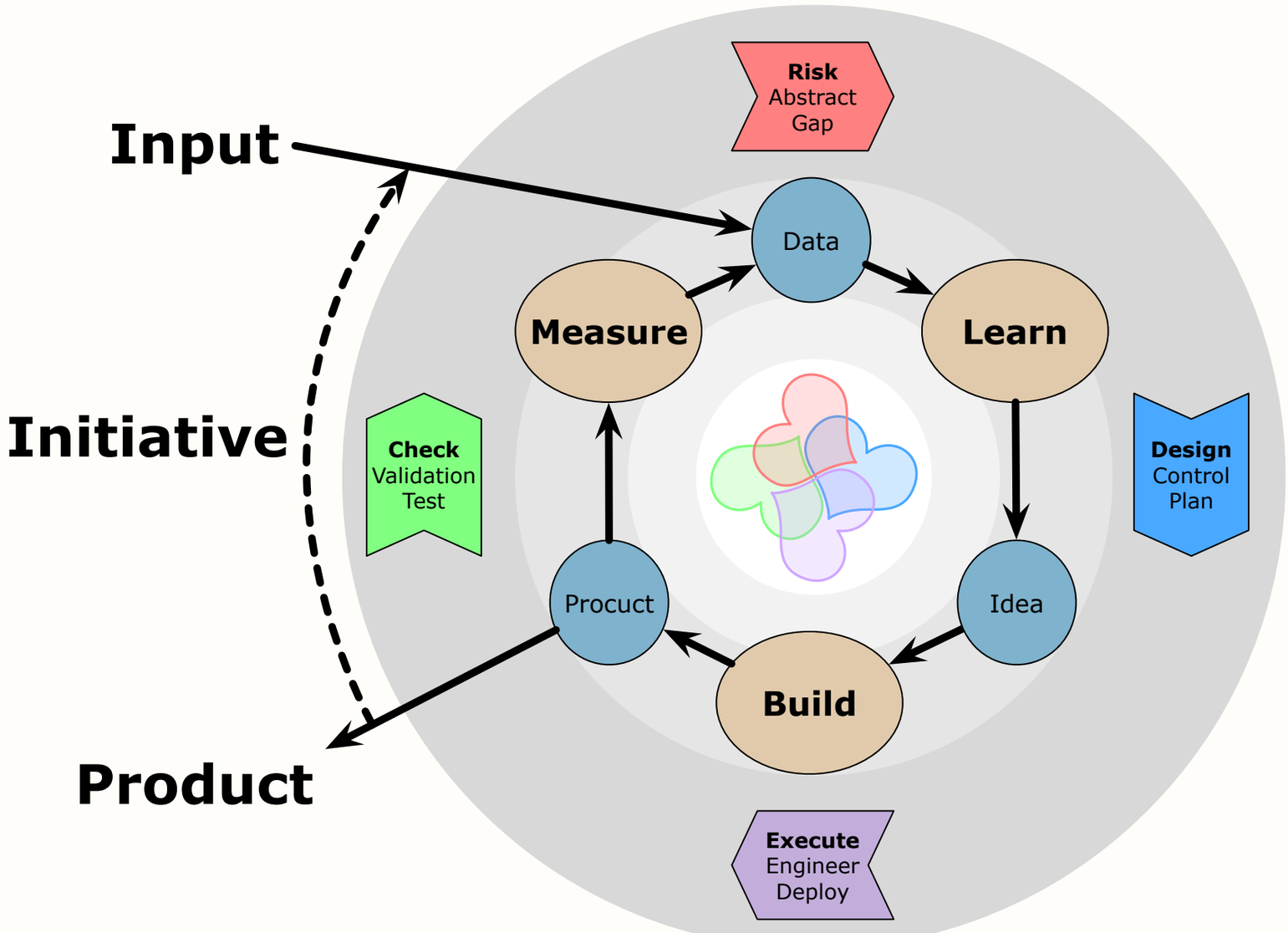
Improvement Loop



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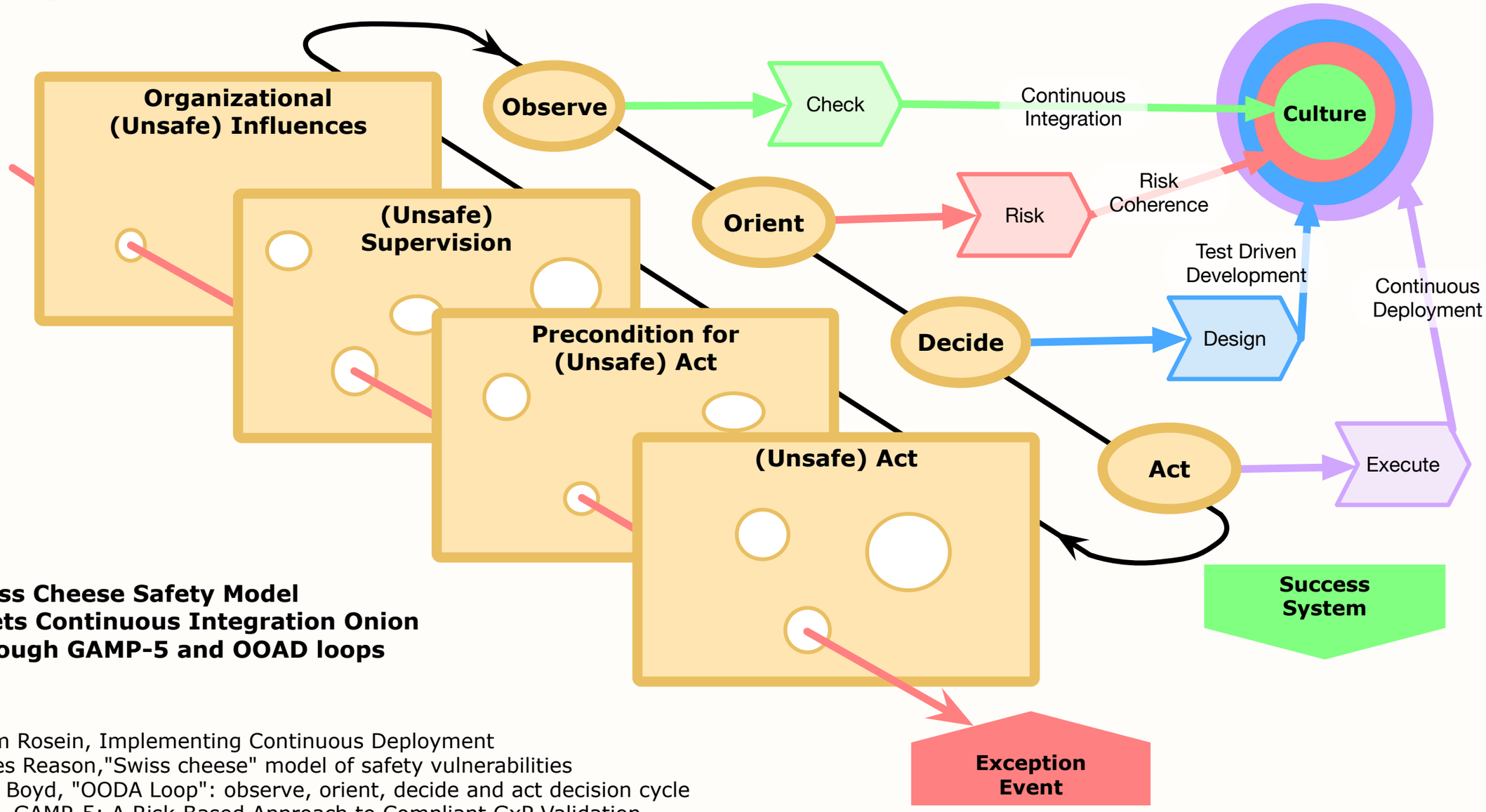
Unprecedented Cheese and Onions



Swiss Cheese Safety Model
Meets Continuous Integration Onion
Through GAMP-5 and OOAD loops

Adam Rosein, Implementing Continuous Deployment
James Reason,"Swiss cheese" model of safety vulnerabilities
John Boyd, "OODA Loop": observe, orient, decide and act decision cycle
ISPE, GAMP-5: A Risk-Based Approach to Compliant GxP Validation

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