The System Architecture Process

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Abstract
The System Architecture Process is positioned in the business context. This process bridges the gap between the Policy and Planning Process and the Product Creation Process.

The purpose of the System Architecture Process is to provide the Integral Technical overview and consistency, and to maintain the integrity over time. Subjective characteristics as elegance and simplicity are key elements of a good architecture.

The scope of the system architecture process is illustrated by showing 5 views used in a reference architecture, ranging from Customer Business to Realization.
The System Architecture Process

Customer-Oriented Process

Product Creation Process

People, Process, and Technology Management Process

Systems Architecting Process

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SAPprocessSimplified
The System Architecture Process

3  Gerrit Muller

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SAPprocessMap

Map of System Architecting Process and Neighborhood

- Policy and Planning
- People and Technology
  - Budget
  - Road-mapping
- Policy and Planning
- Business
- Marketing
- Systems Architecting
  - Design Control
  - Project Management
  - Product Creation

The System Architecture Process
System Architecting Relation between PPP and PCP

Policy and Planning Process

Context: Product Portfolio, Time

Vision, Policy, Intention

Practical Knowledge

Feedback from Reality

Product Creation Process
System Architecting Key Issues

**key words**
- balance
- consistency
- integrity
- simplicity
- elegance
- stakeholder satisfaction

**balancing acts**
- External ↔ internal requirements
- Short term needs ↔ long term interests
- Efforts ↔ risks from requirements to verification
- Mutual influence of detailed designs
- Value ↔ costs

**example trade-offs**
- performance
- functionality
- qualities
- synergy
- specific solution