

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.

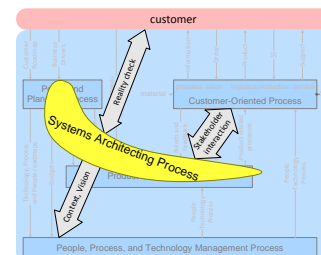
The purpose of the System Architecture Process is to provide the Integral Technical overview and consistency, and to maintain the integrity over time. Subjective characteristics as elegance and simplicity are key elements of a good architecture.

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

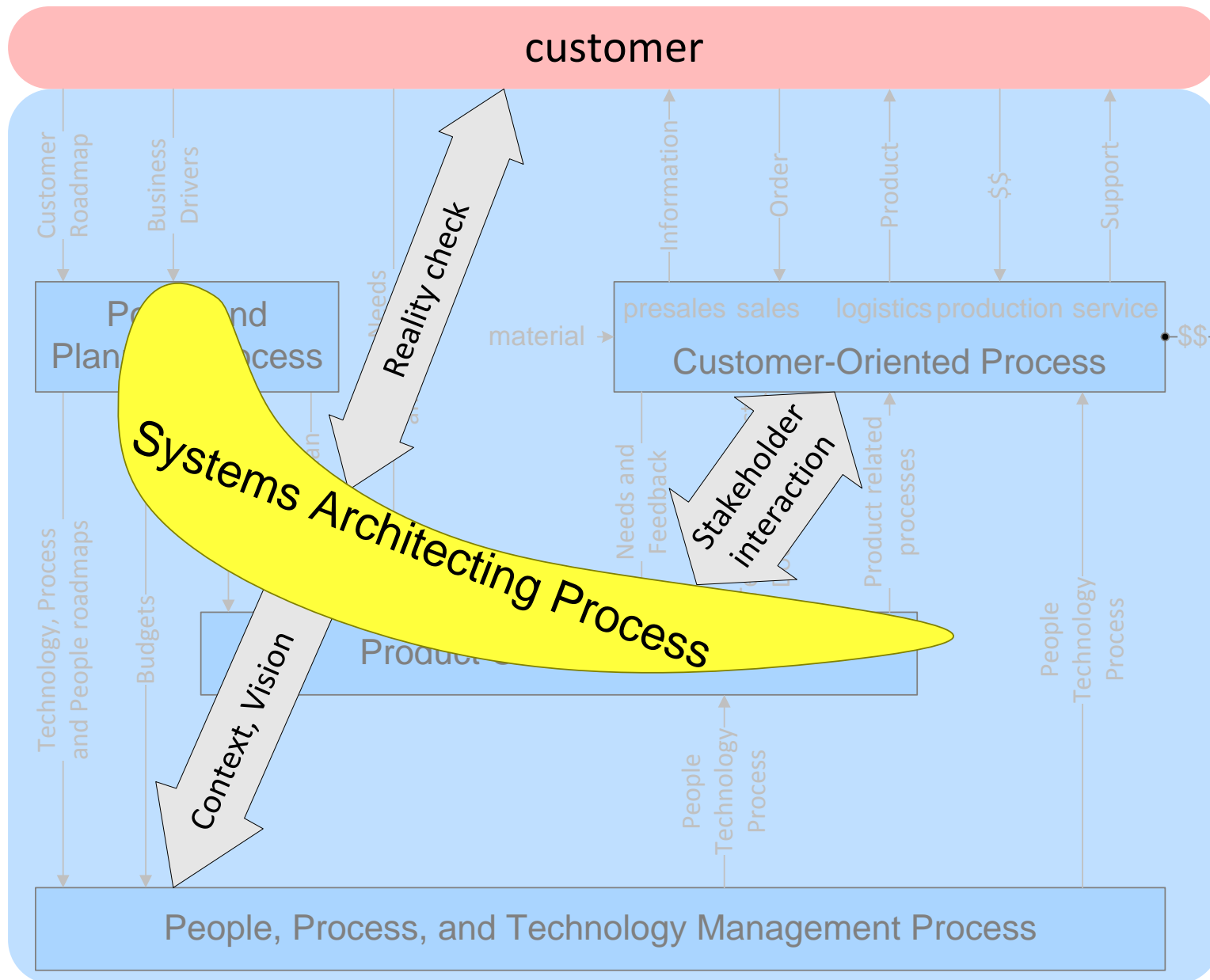
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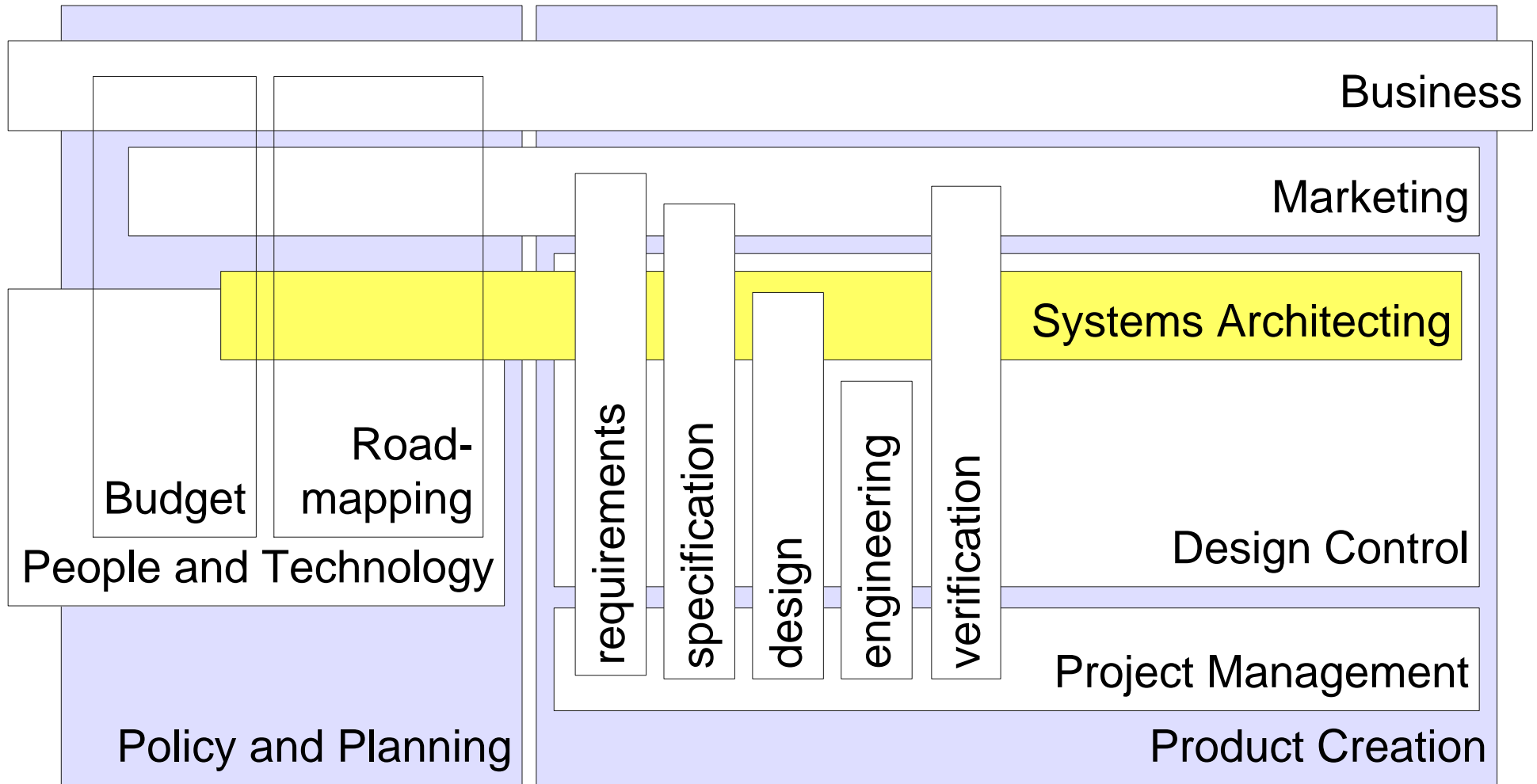
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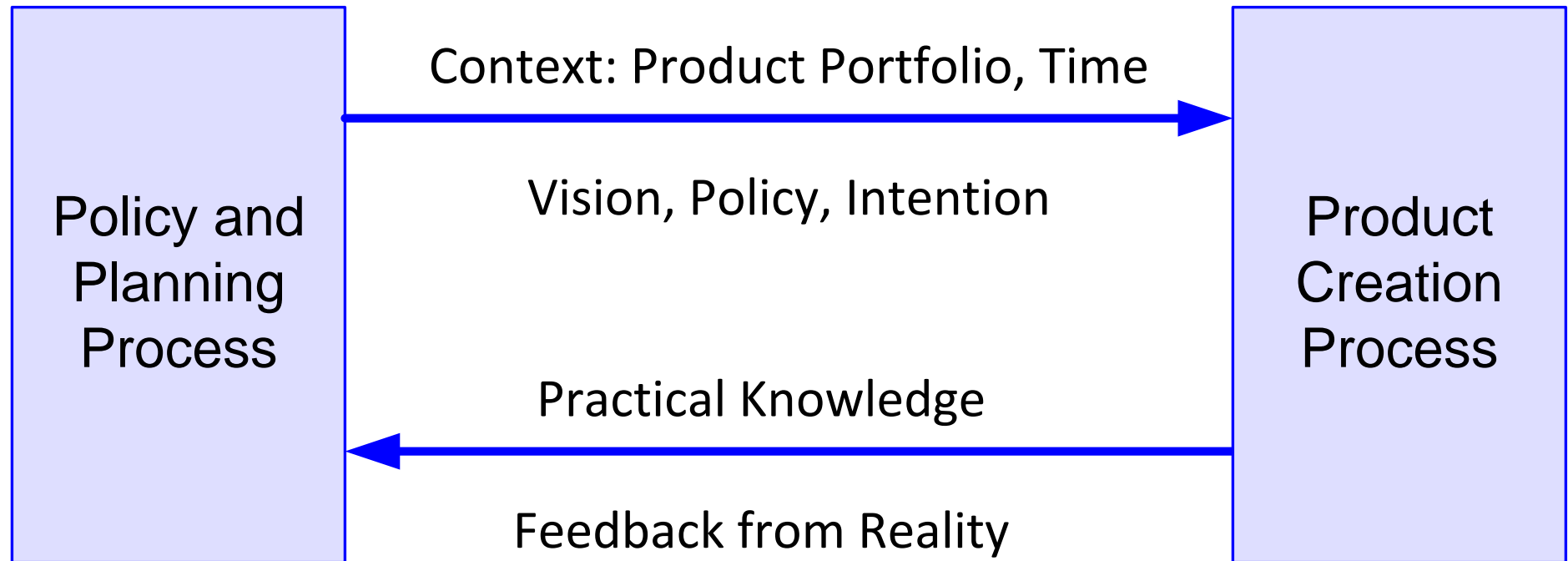
System Architecting Process in Business Context



Map of System Architecting Process and Neighborhood



System Architecting Relation between PPP and PCP



System Architecting Key Issues

key words

balance

consistency

integrity

simplicity

elegance

stakeholder
satisfaction

balancing acts

External ↔ internal requirements

Short term needs ↔ long term interests

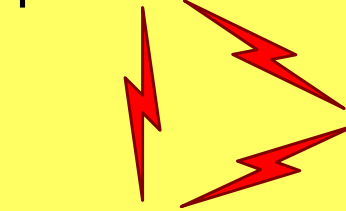
Efforts ↔ risks from requirements to verification

Mutual influence of detailed designs

Value ↔ costs

example trade-offs

performance



qualities

functionality

synergy



specific solution