

The System Architecture Process

by *Gerrit Muller* University of South-Eastern Norway-NISE

e-mail: gaudisite@gmail.com

www.gaudisite.nl

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.

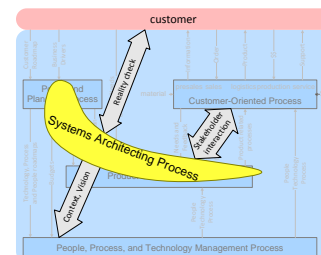
The purpose of the System Architecture Process is to provide the Integral Technical overview and consistency, and to maintain the integrity over time. Subjective characteristics as elegance and simplicity are key elements of a good architecture.

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

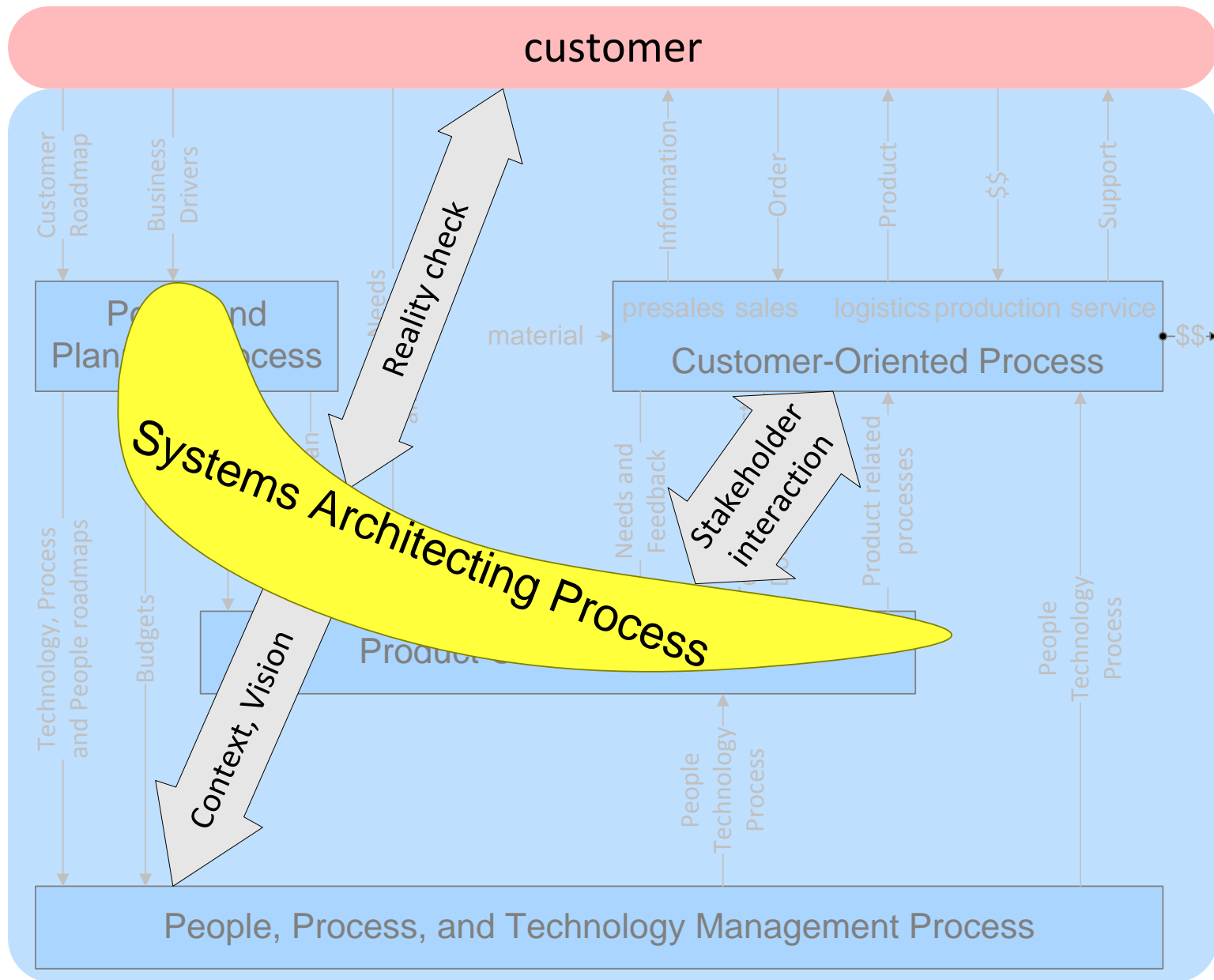
Distribution

This article or presentation is written as part of the Gaudí project. The Gaudí project philosophy is to improve by obtaining frequent feedback. Frequent feedback is pursued by an open creation process. This document is published as intermediate or nearly mature version to get feedback. Further distribution is allowed as long as the document remains complete and unchanged.

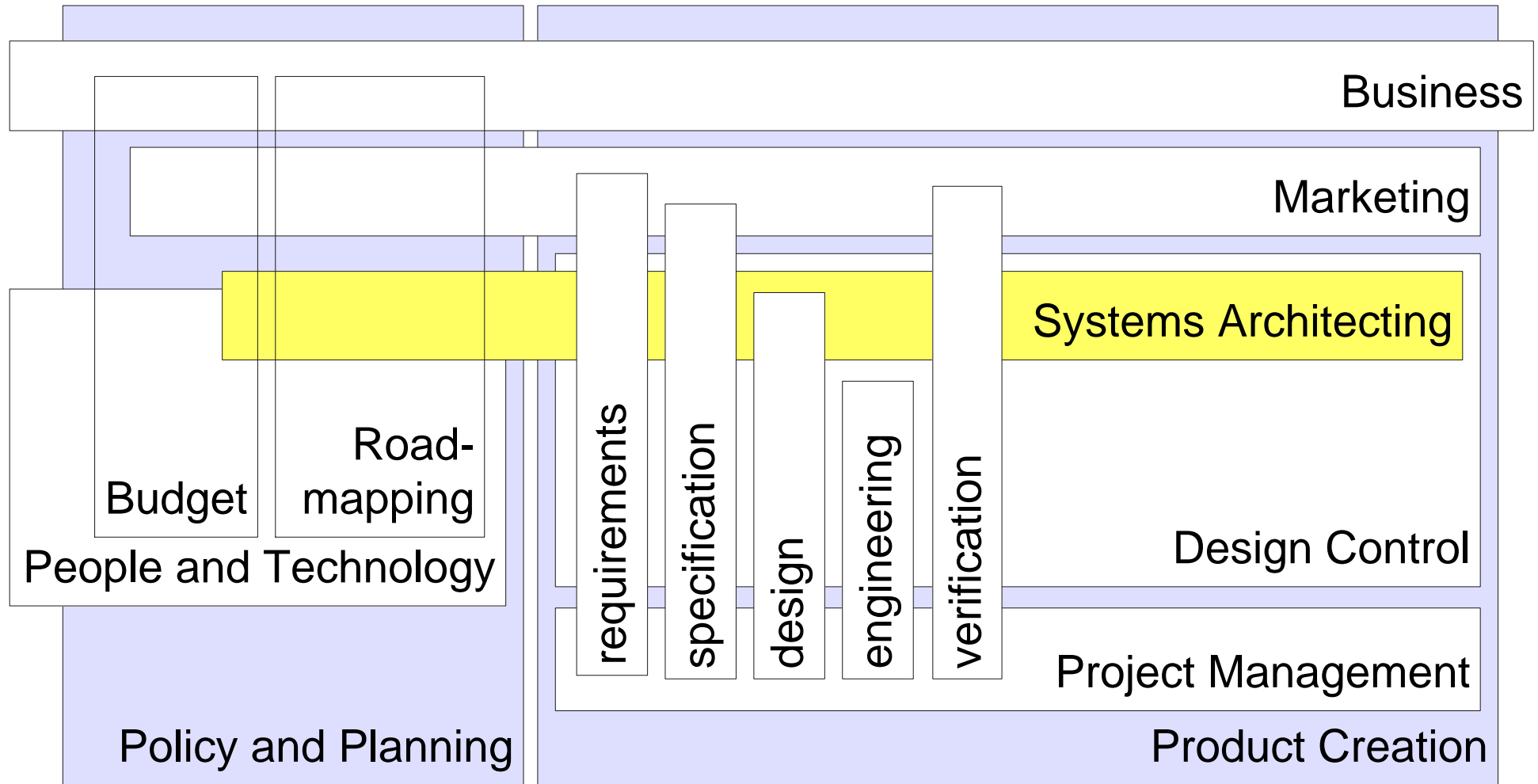
September 9, 2018
status: concept
version: 2.3



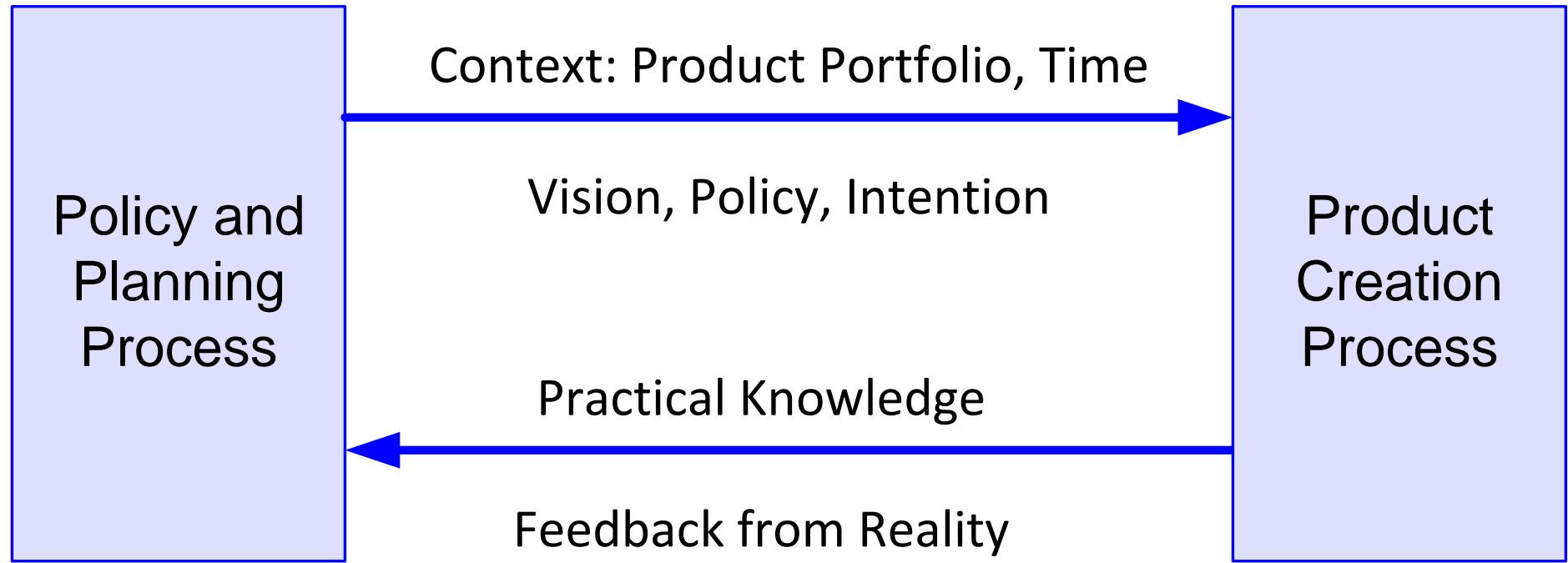
System Architecting Process in Business Context



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