

Vision on Architecture

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

e-mail: `gaudisite@gmail.com`

`www.gaudisite.nl`

Abstract

Architecture is a term that is used with various meanings. This presentation shows the broader view on architecture as used at Gaudisite.nl. This vision includes customer value proposition and business proposition as part of the architecture.

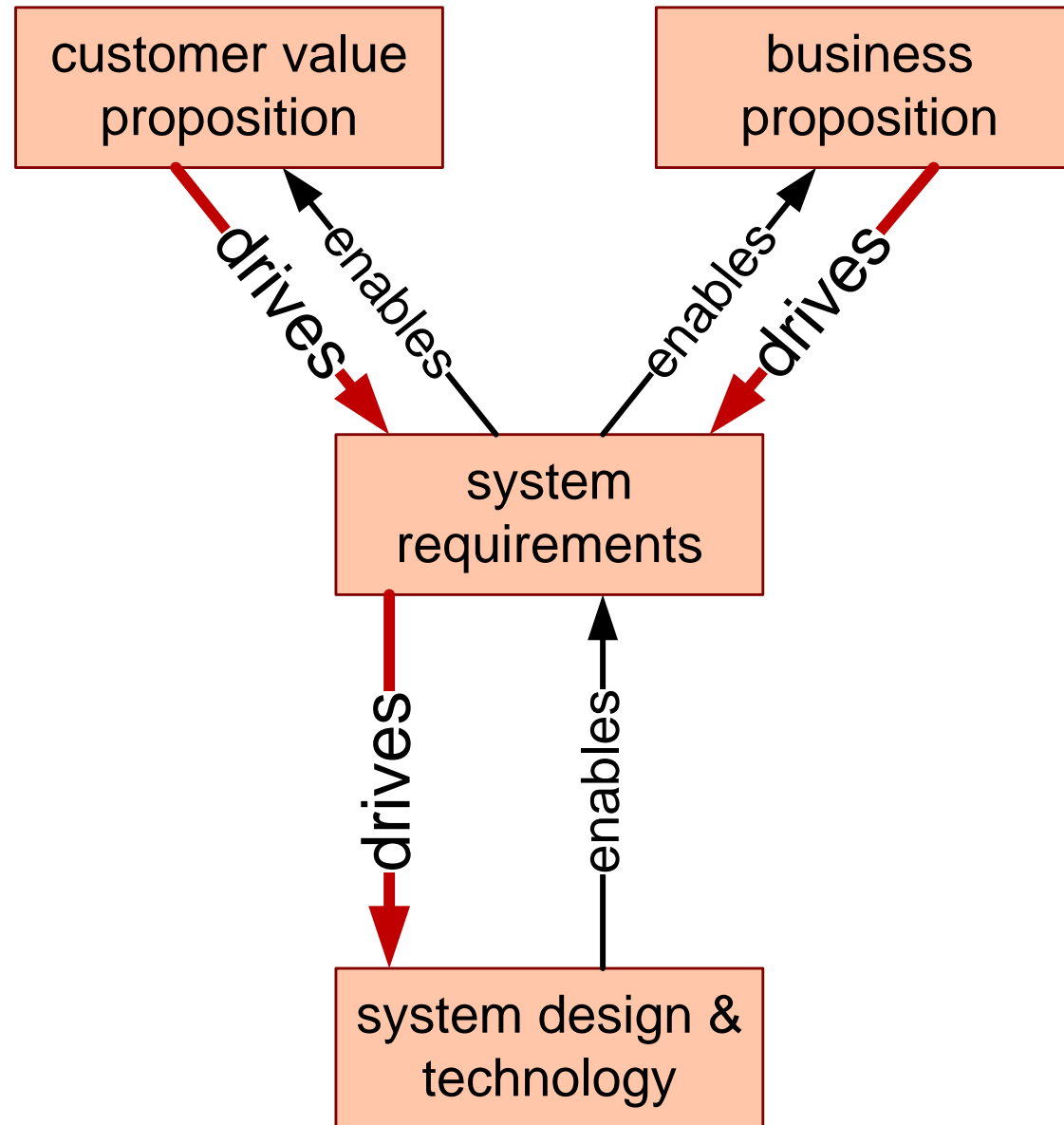
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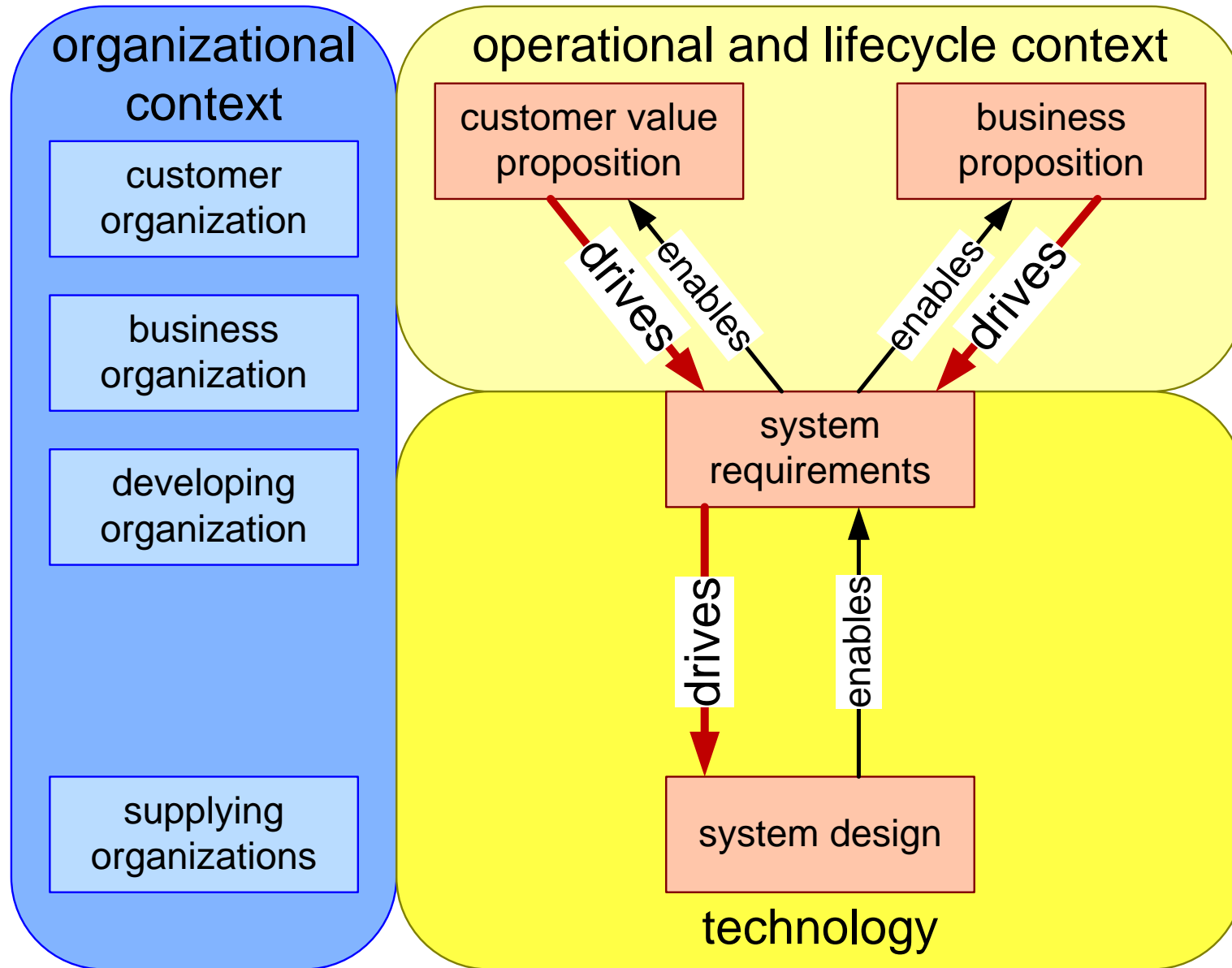
September 1, 2020
status: planned
version: 0.3

logo
TBD

Architecture Top View



Architecting Playing Field



Market and Business Context

- continuously changing competitive landscape
- fast changing needs
- variation in needs

consequence: uncertainties and unknowns

Objective of Architecture is to achieve Technical Leadership (e.g., a winning competitive position)

A good architecture facilitates fast creation of solutions, fitting the needs, and coping with uncertainties and unknowns

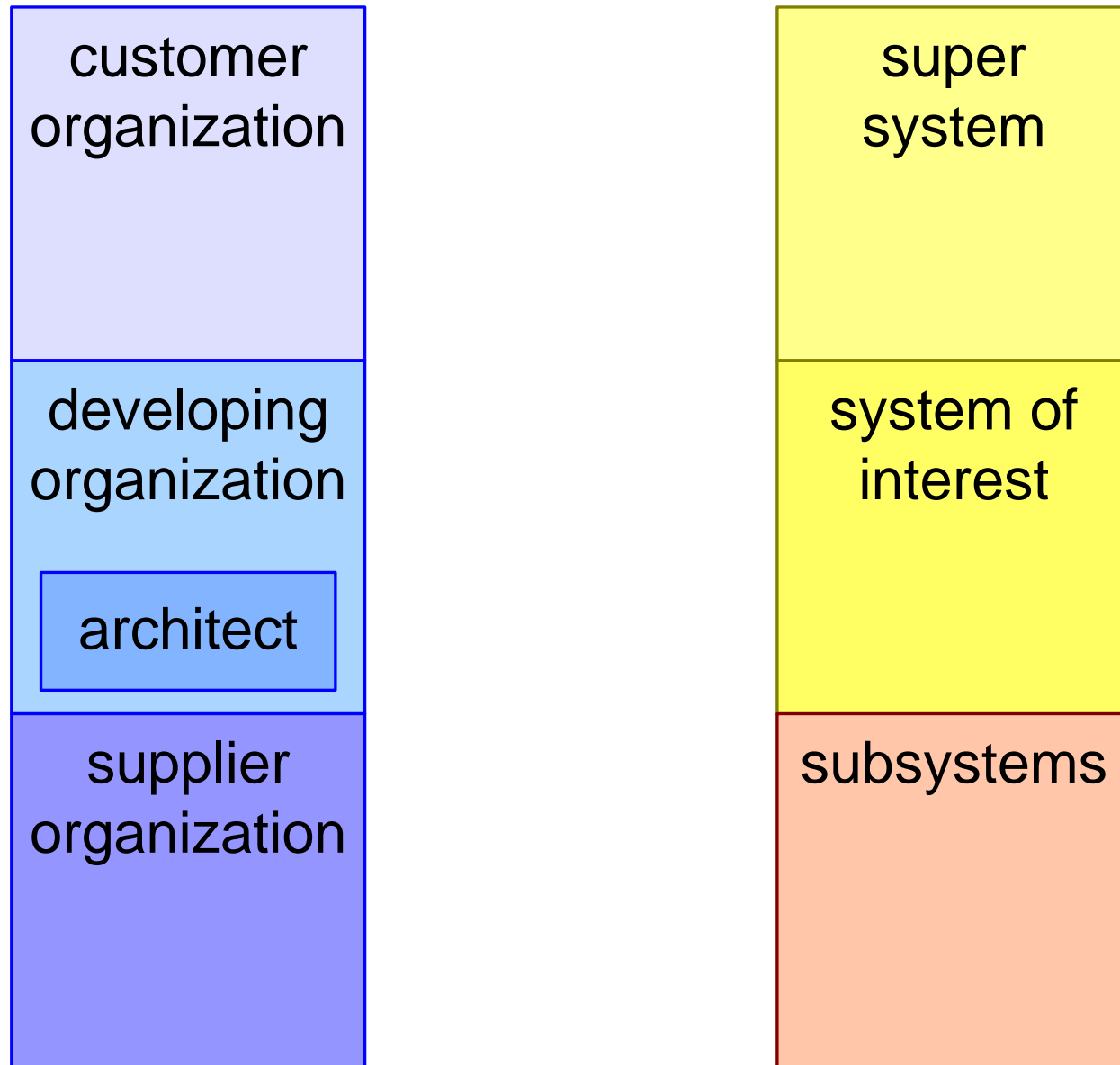
Our Primary Interest

developing
organization

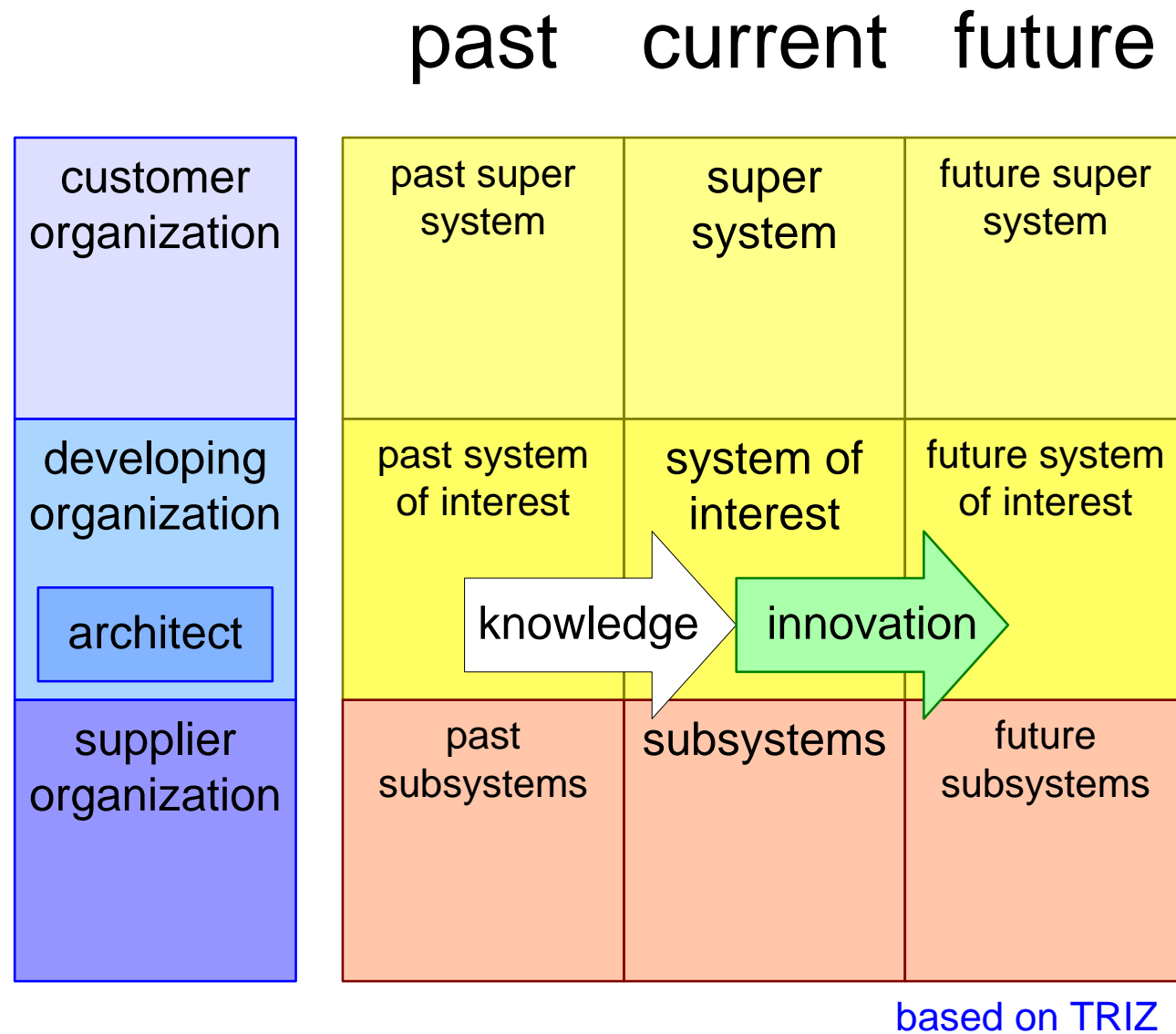
architect

system of
interest

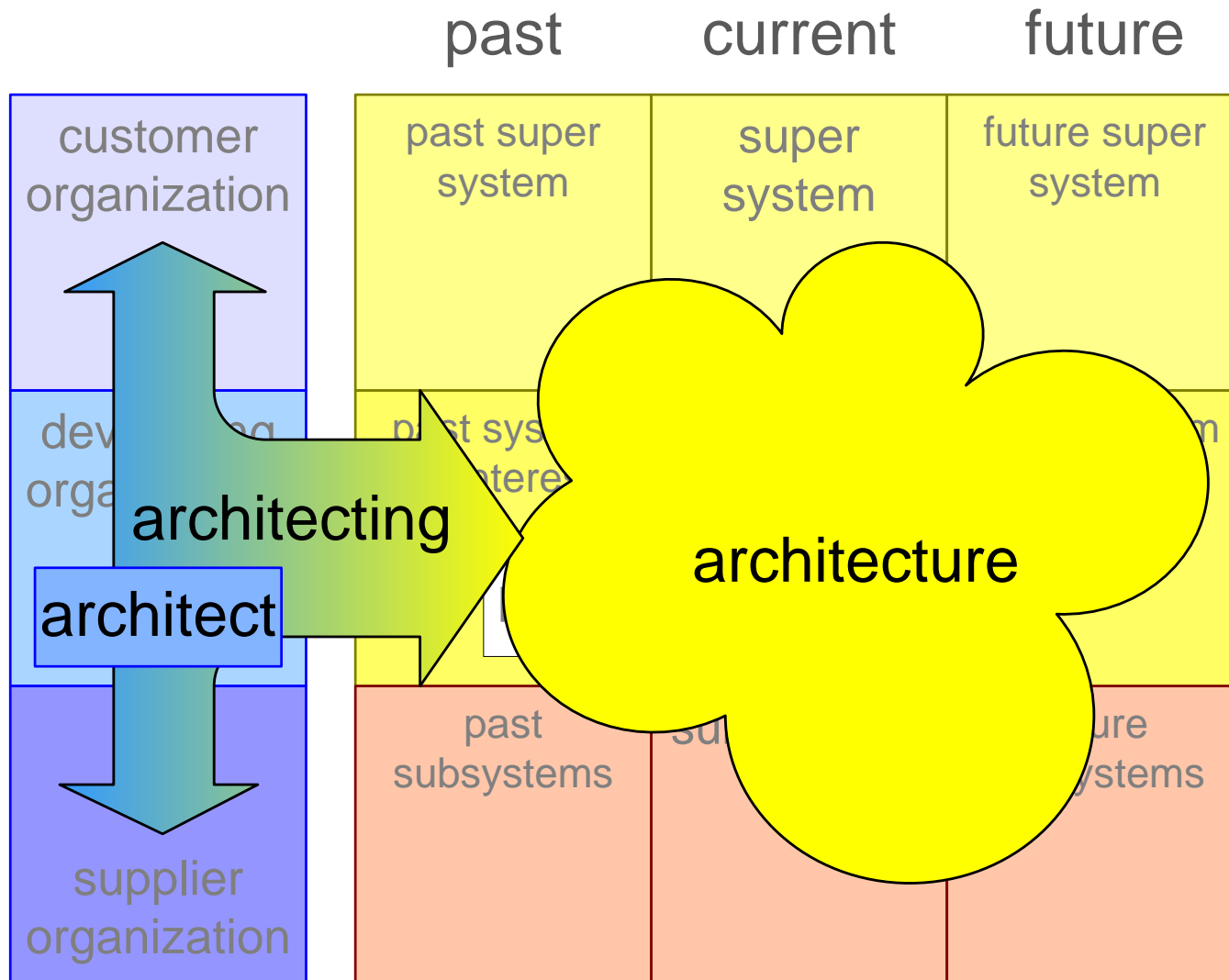
Context, Zoom-out and Zoom-in



Adding the Time Dimension

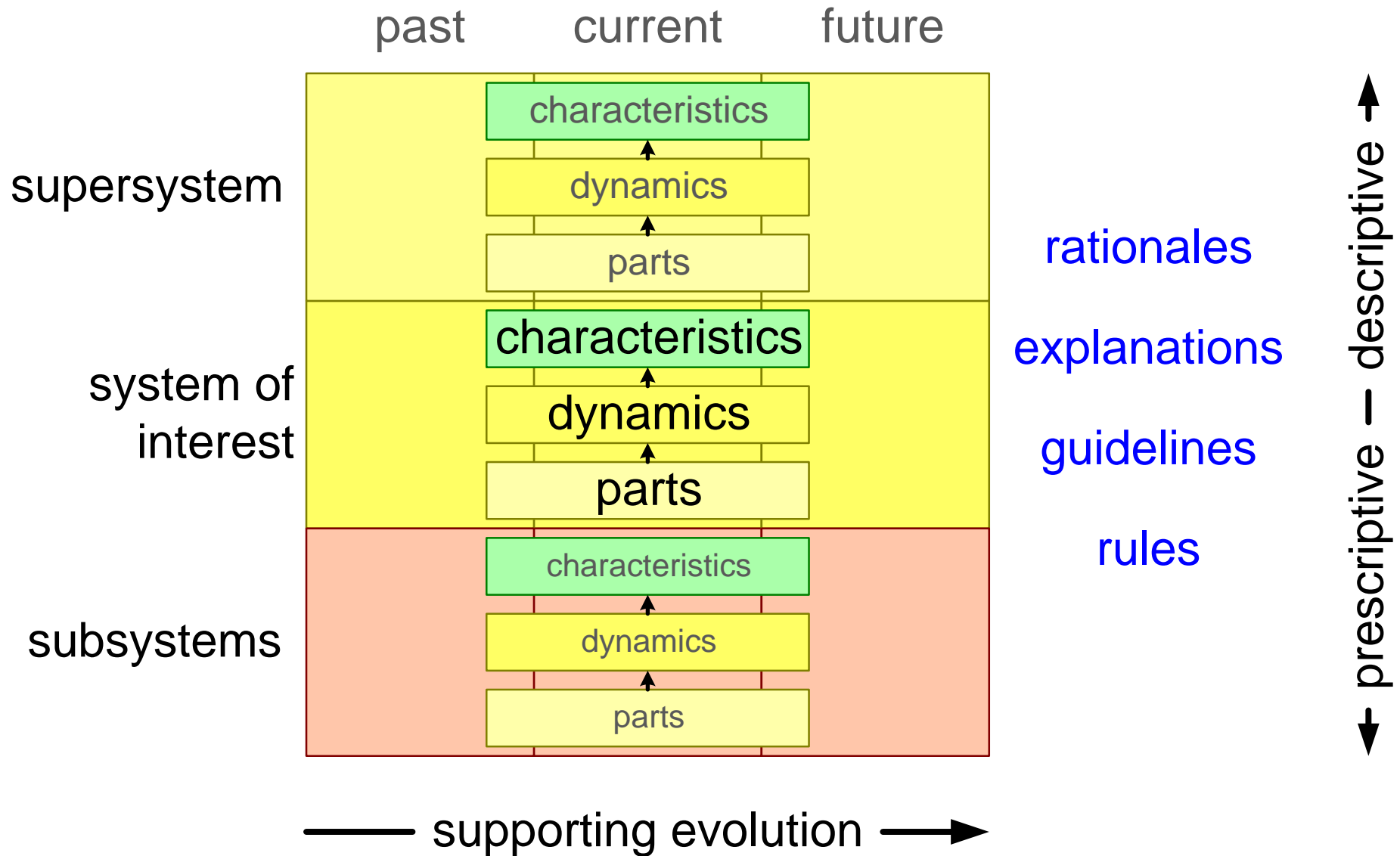


Architect, Architecture, Architecting

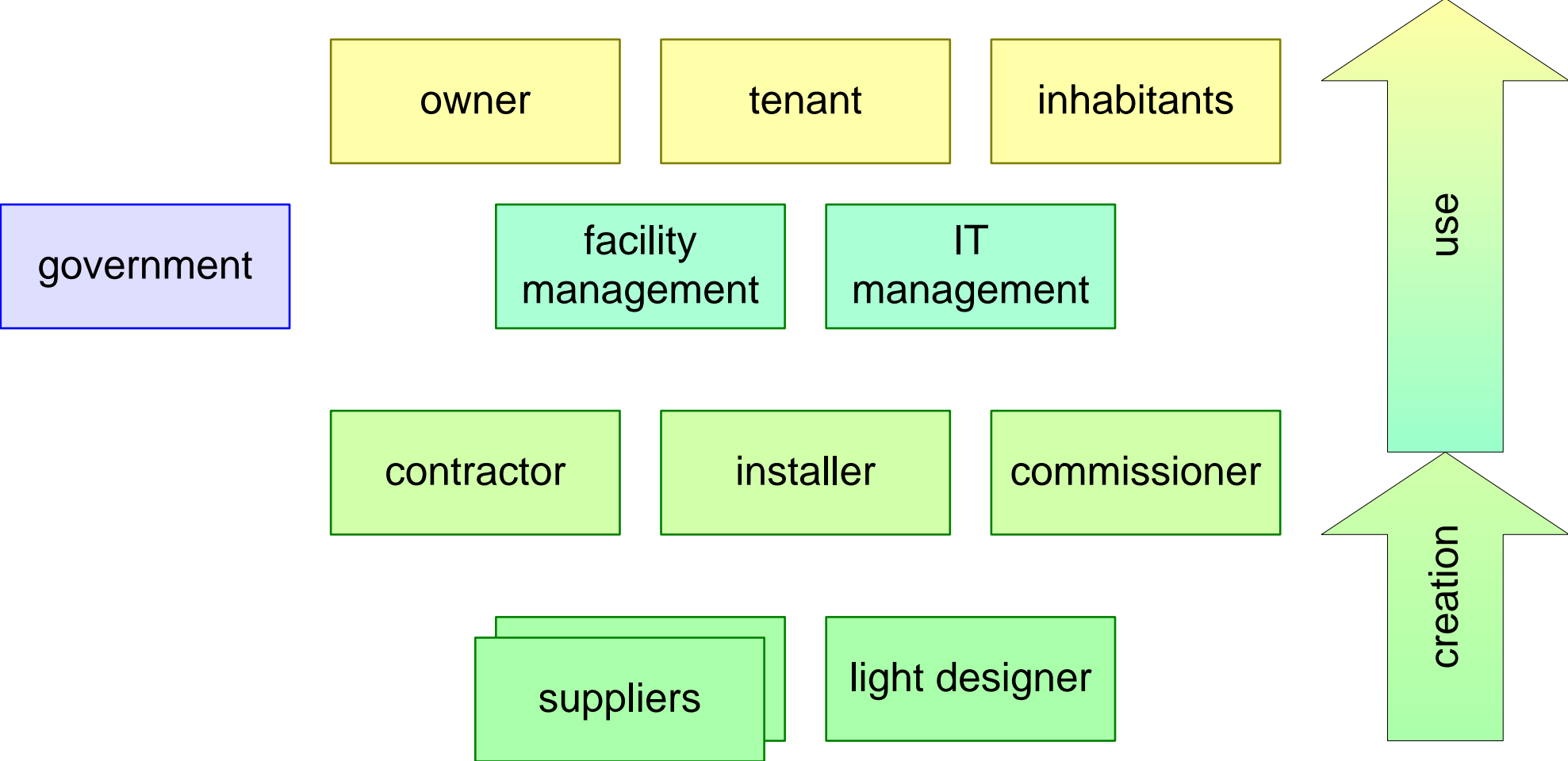


based on TRIZ

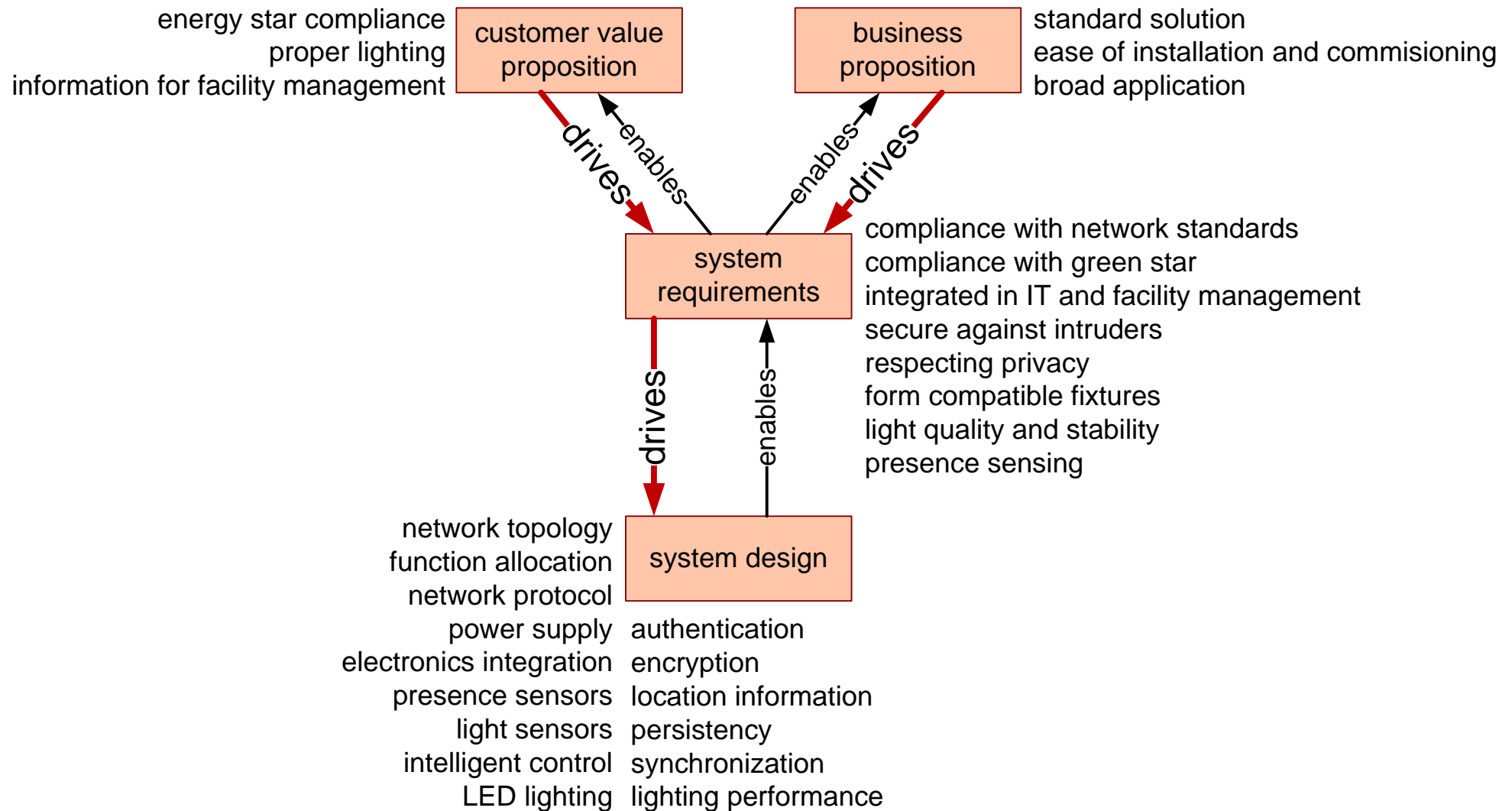
Architecture Description



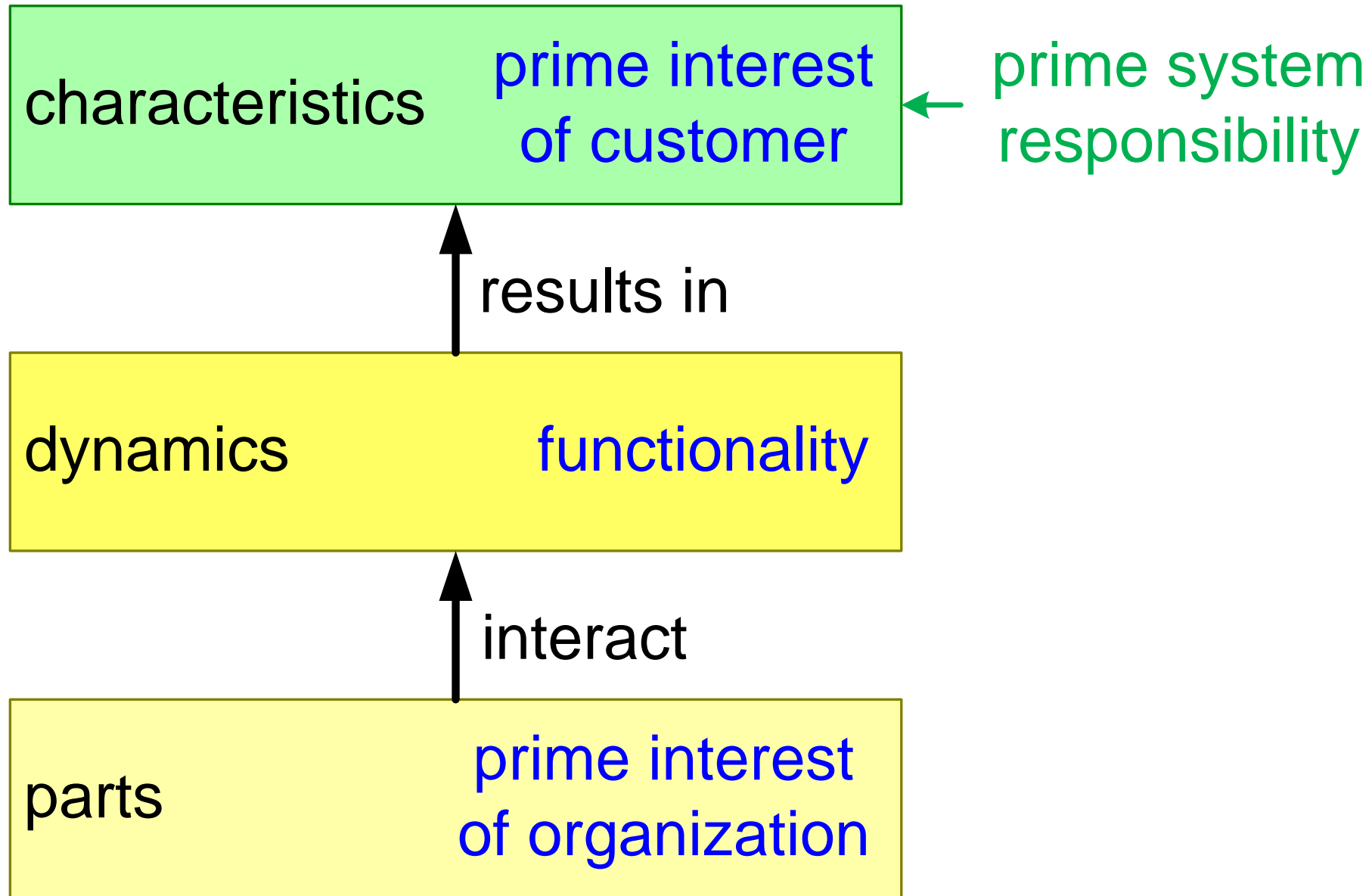
Example Context



Example Aspects in Office Lighting



Design = Structure + Dynamics + Quantification



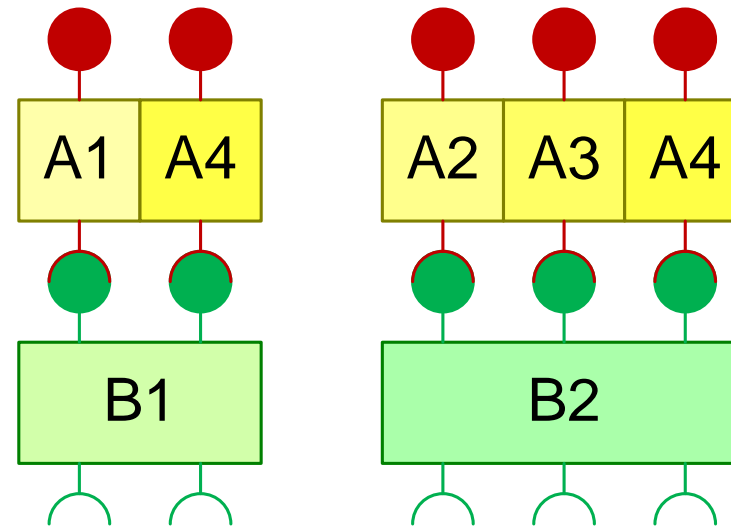
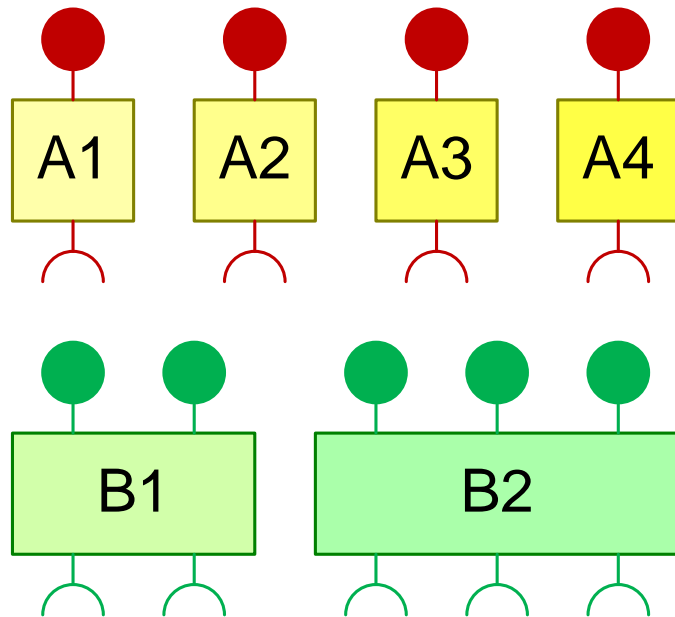
Structure = Parts + Interfaces + Configuration

ultimate goal:

- modular component catalogue
- well-defined interfaces
- independent testable

to facilitate:

- fast creation of solutions
- concurrent engineering
- logistics and production
- variations and changes



Designing Desired Qualities and Behavior

- How do parts interact to create desired dynamic behavior?
 - allocate functions
- How do desired qualities and performance emerge from the interaction?
 - dimension and configure parts and functions

