

Competence Development Program; Vision on Architecting and Education

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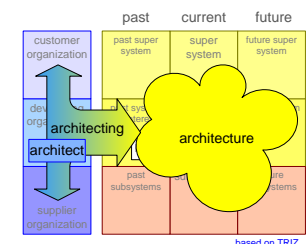
Abstract

The TNO vision on competence development of architects is described. Architect, Architecture, and Architecting are placed in perspective. A didactic model of the layers attitude, ability, skills, and knowledge is the framework for the vision on education.

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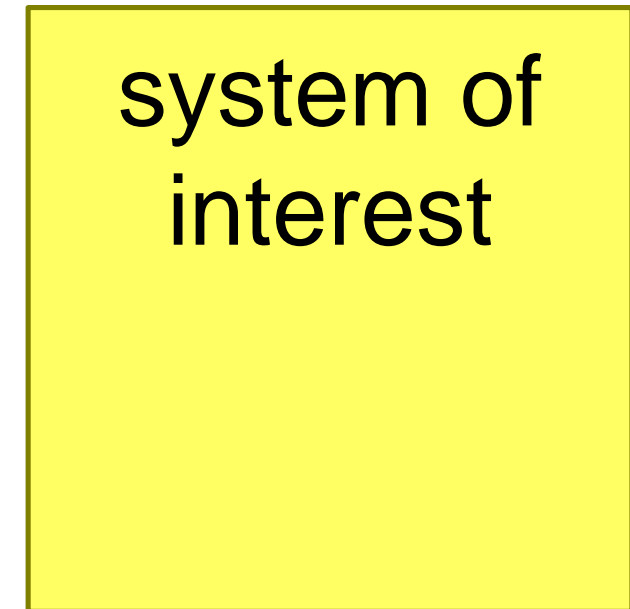
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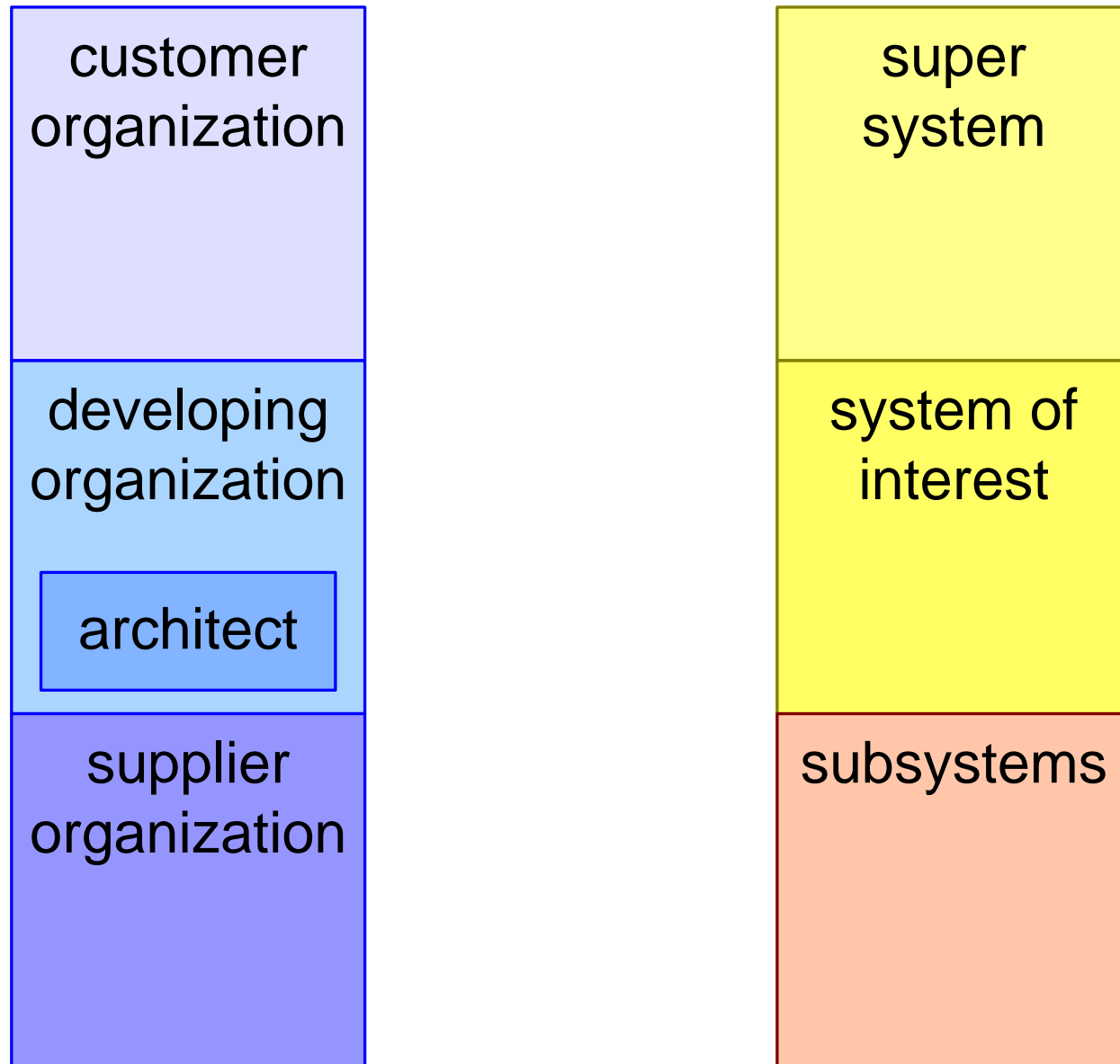
TNO-ESI evolved the competence development program for architects over many years.

Joris van den Aker is program manager and driver behind the program

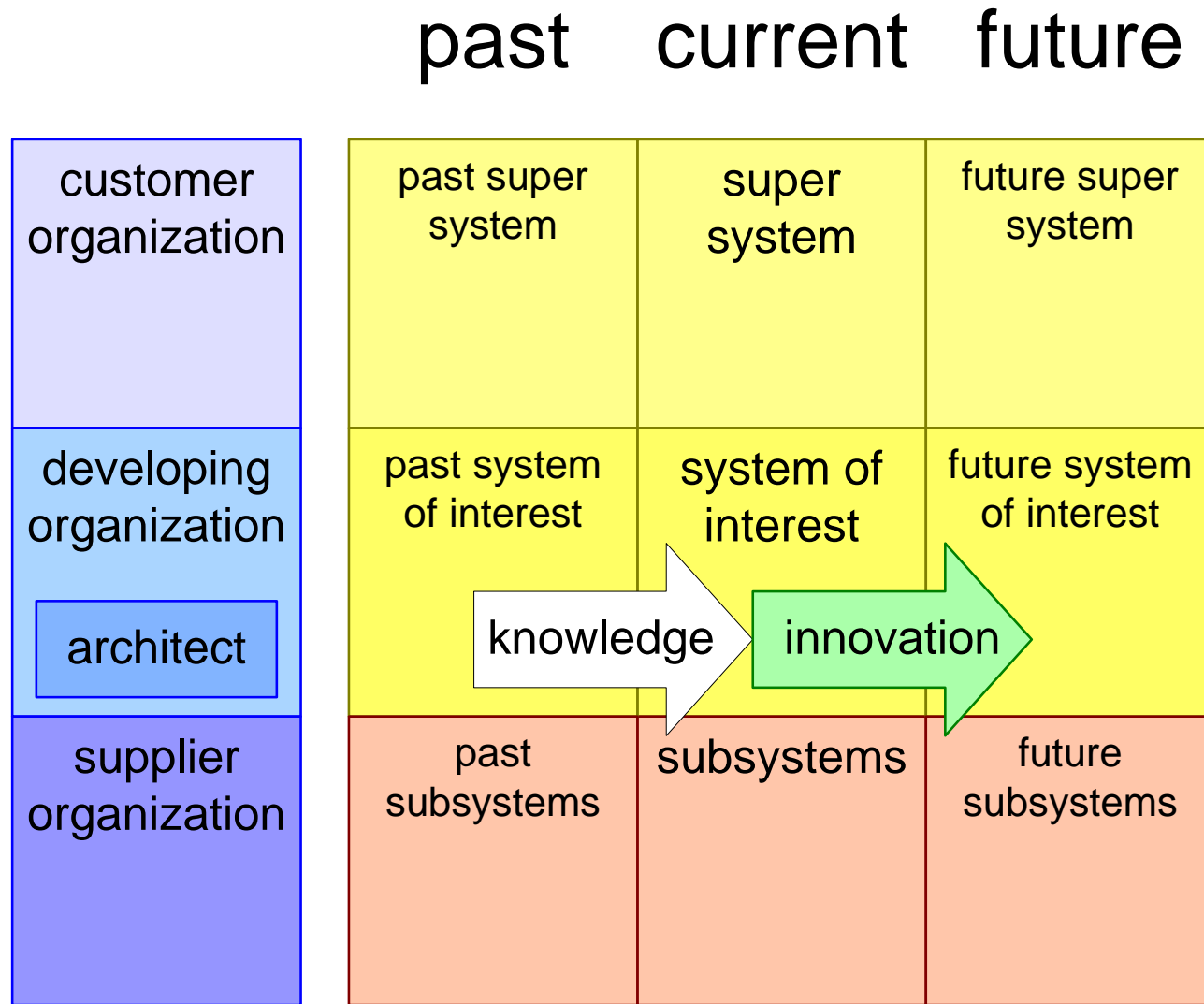
Our Primary Interest



Context, Zoom-out and Zoom-in

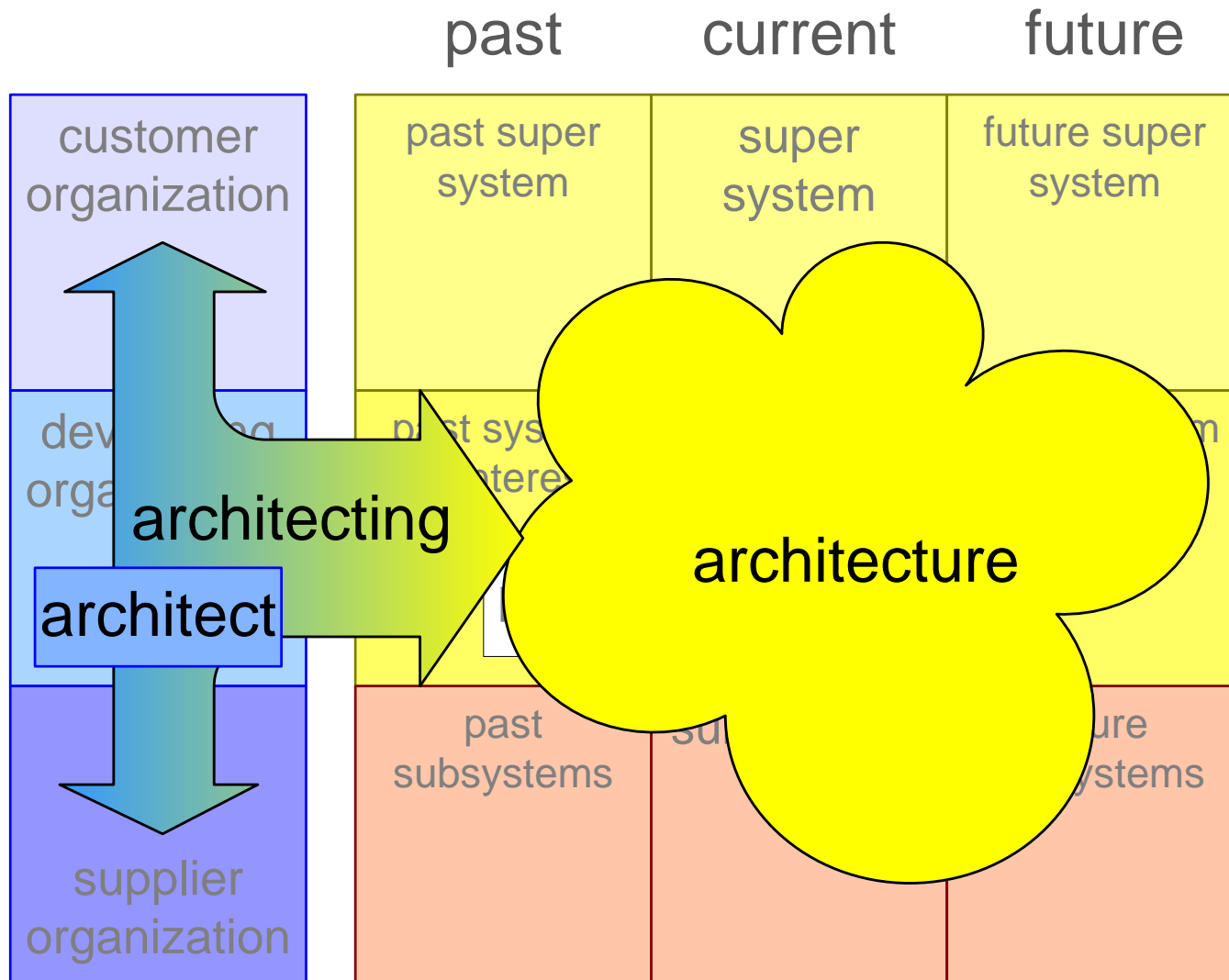


Adding the Time Dimension



based on TRIZ

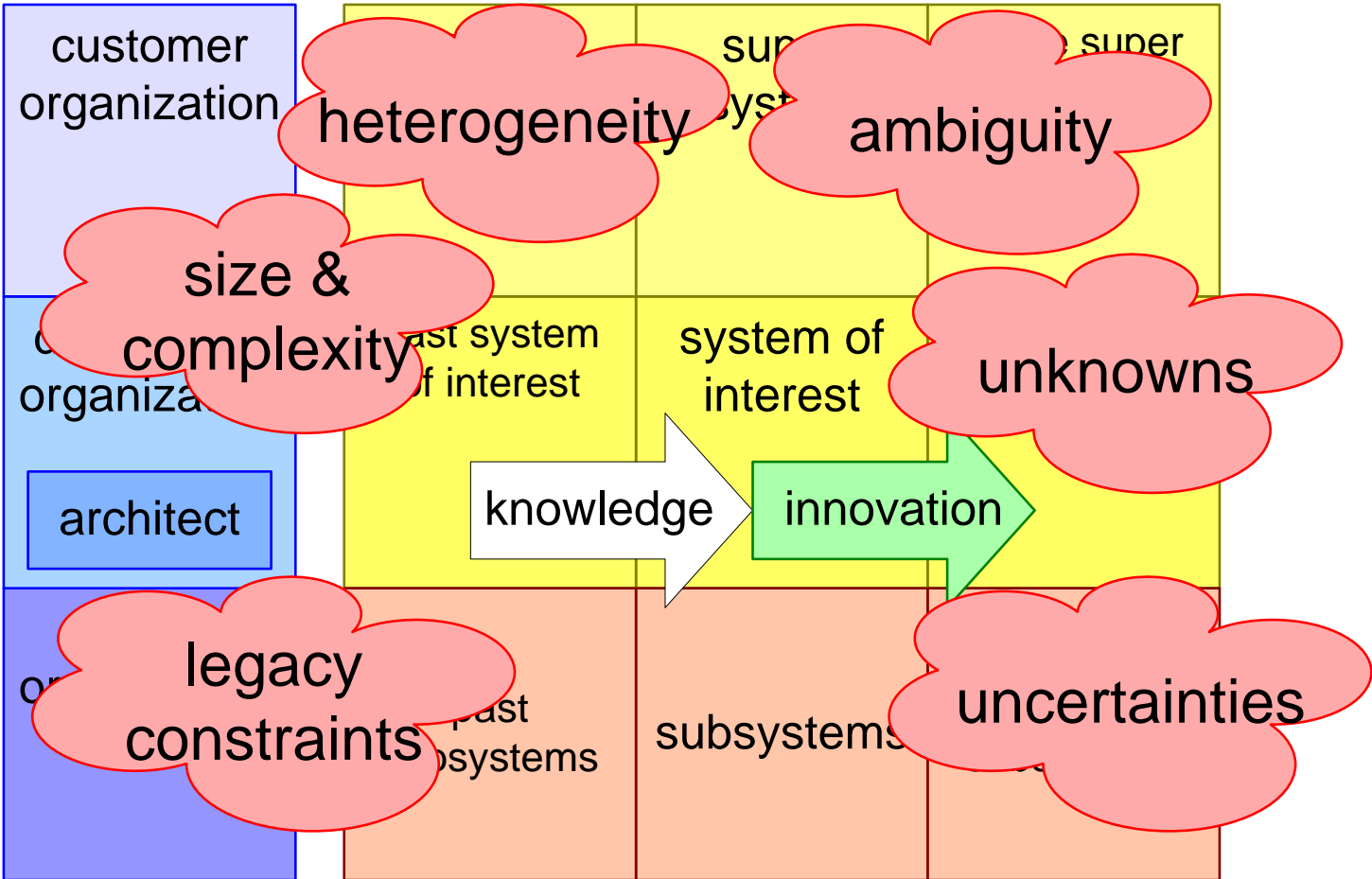
Architect, Architecture, Architecting



based on TRIZ

Challenges

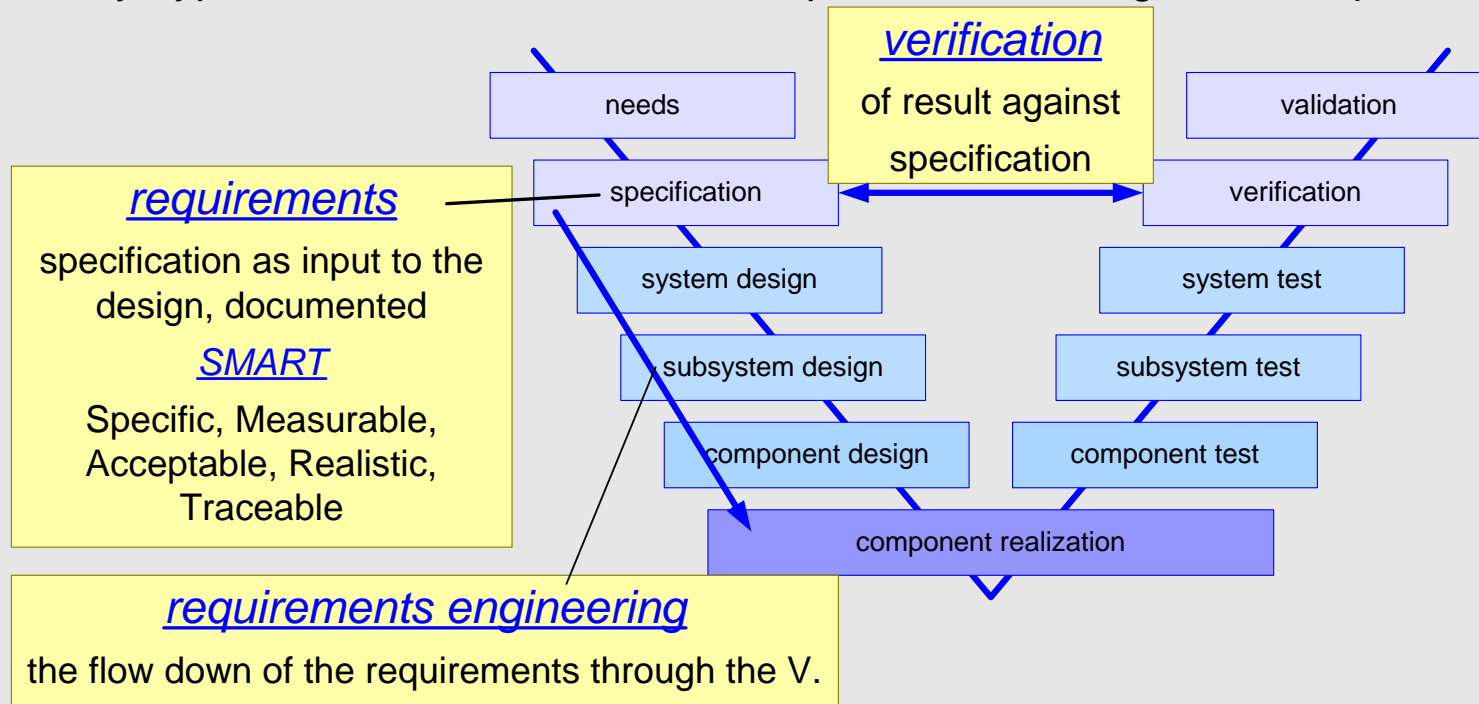
past current future



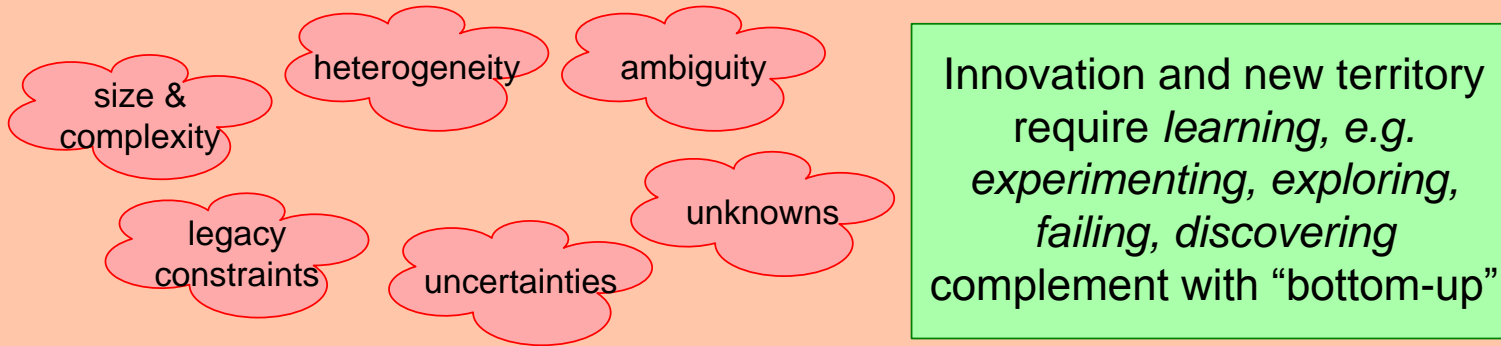
based on TRIZ

From Theory to Practice

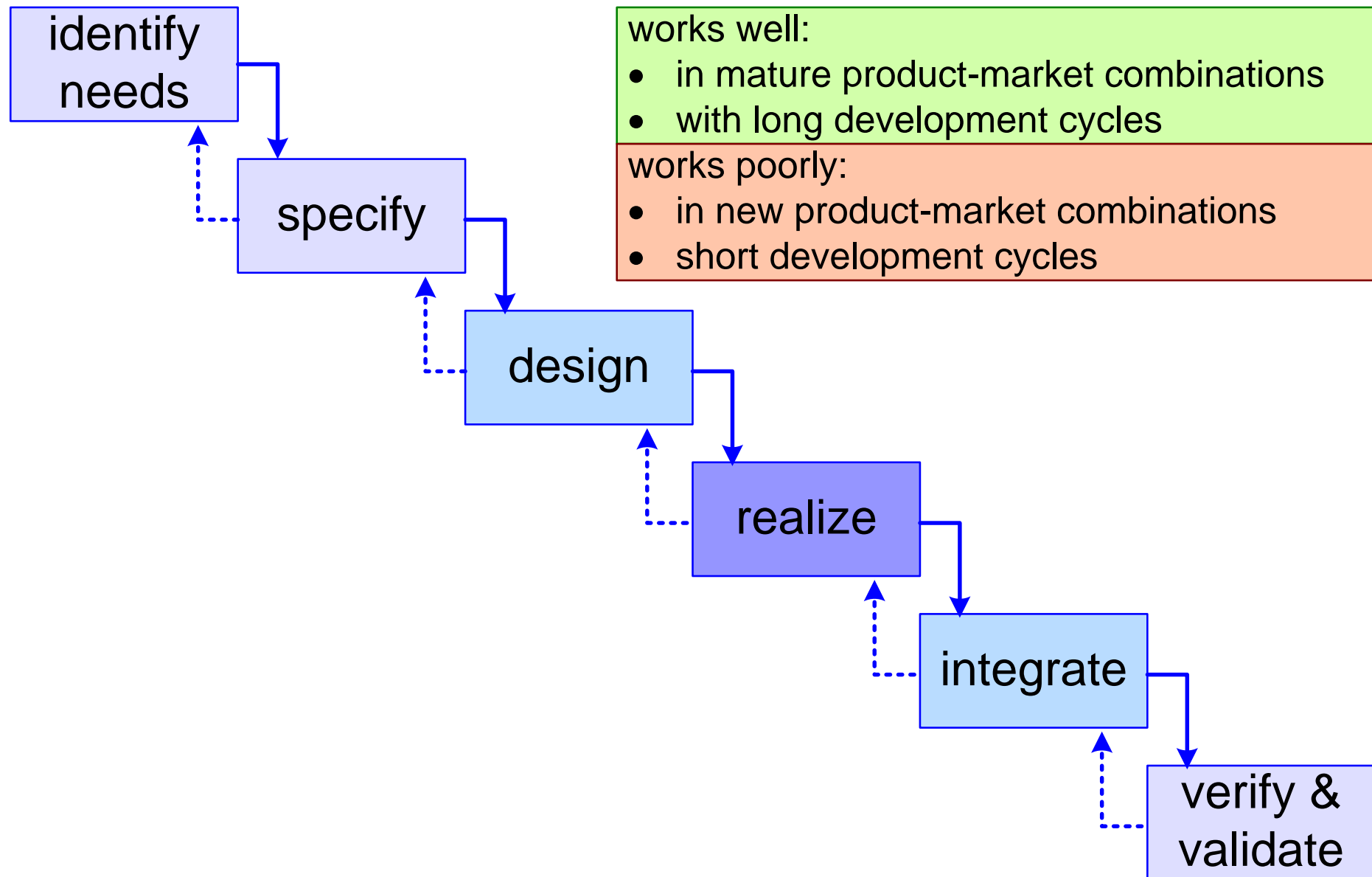
Theory: typical SE workflow: V-model, requirements management, “top-down”



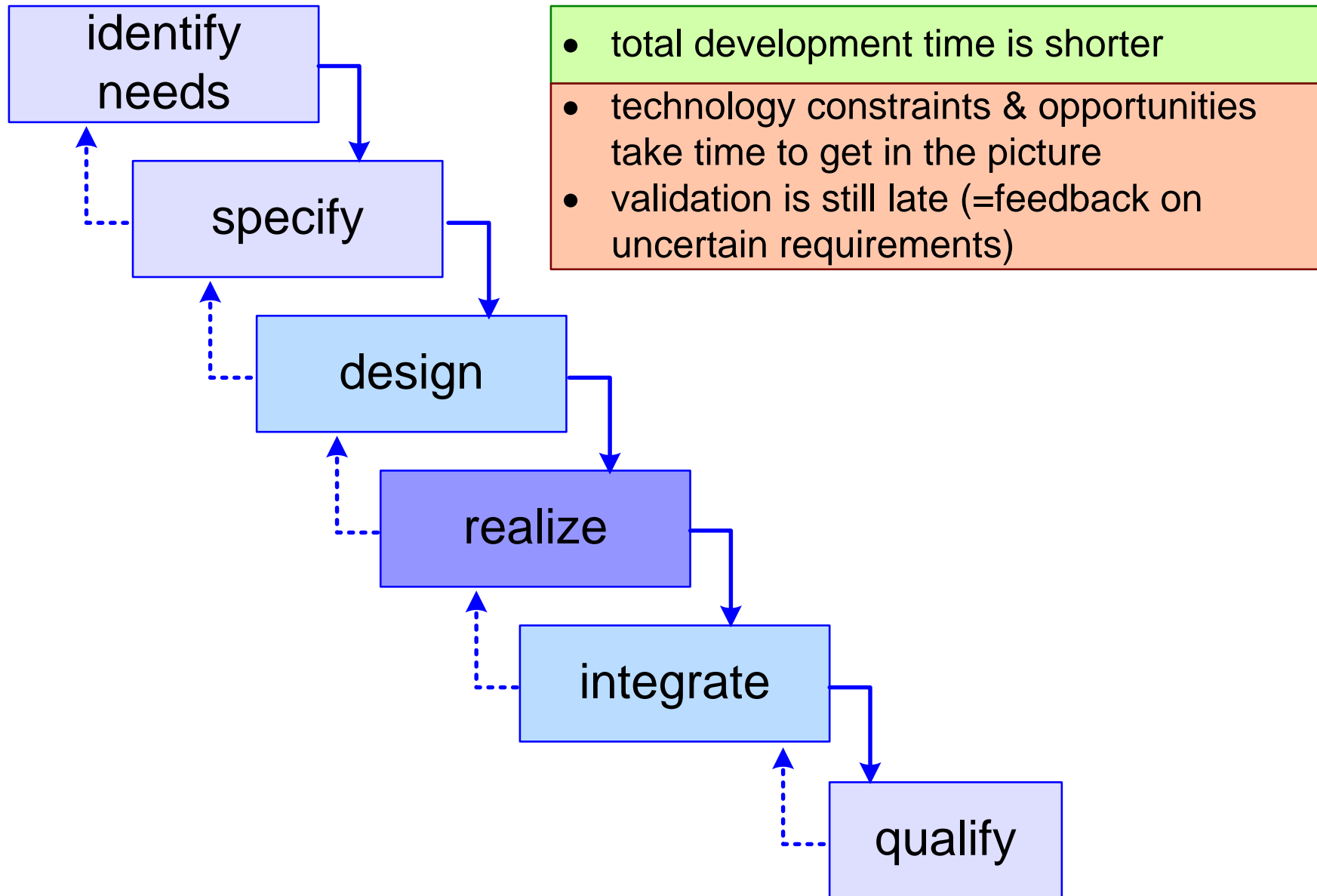
Practice: Finite knowledge and wisdom causes late disruptions



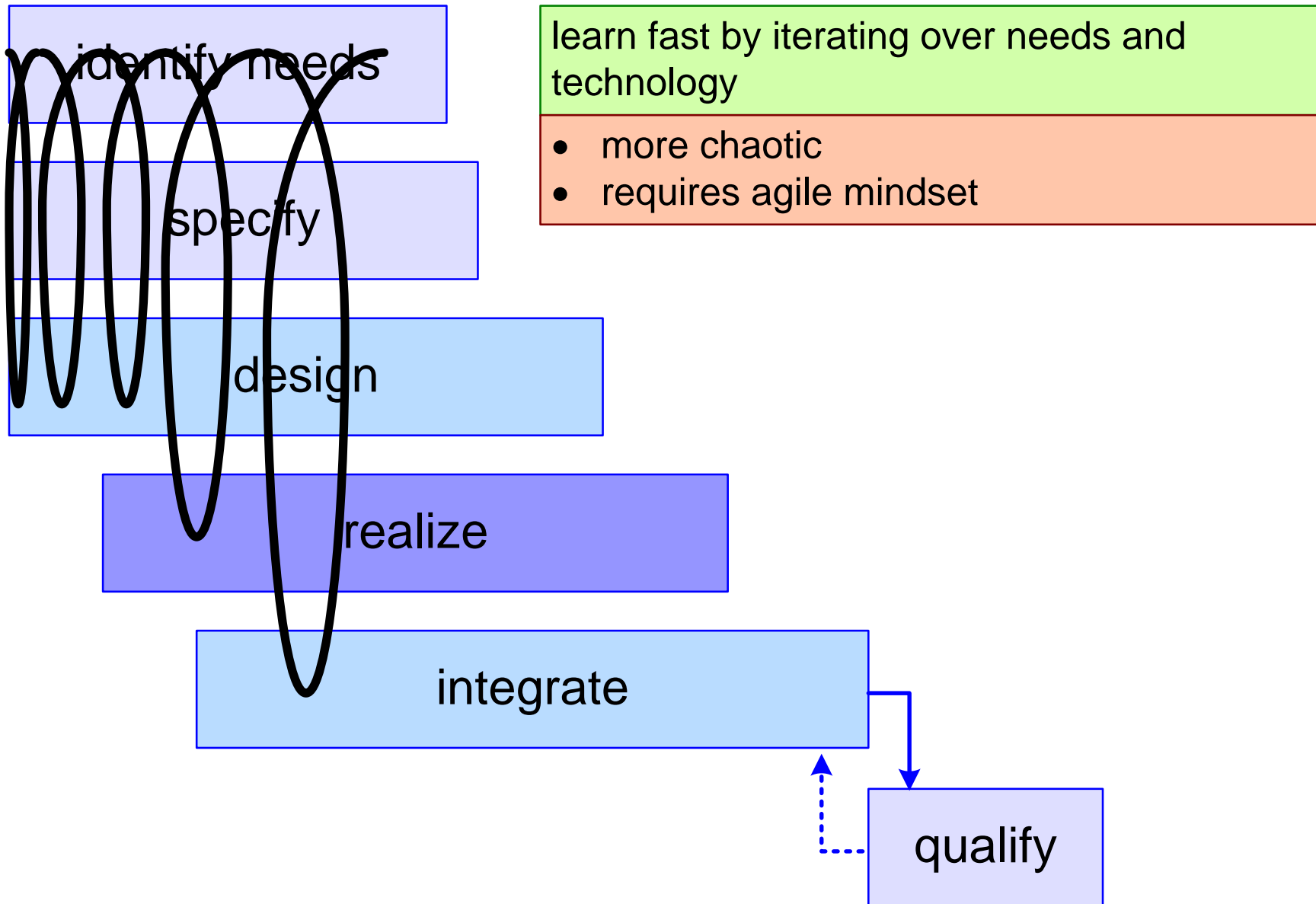
Waterfall model



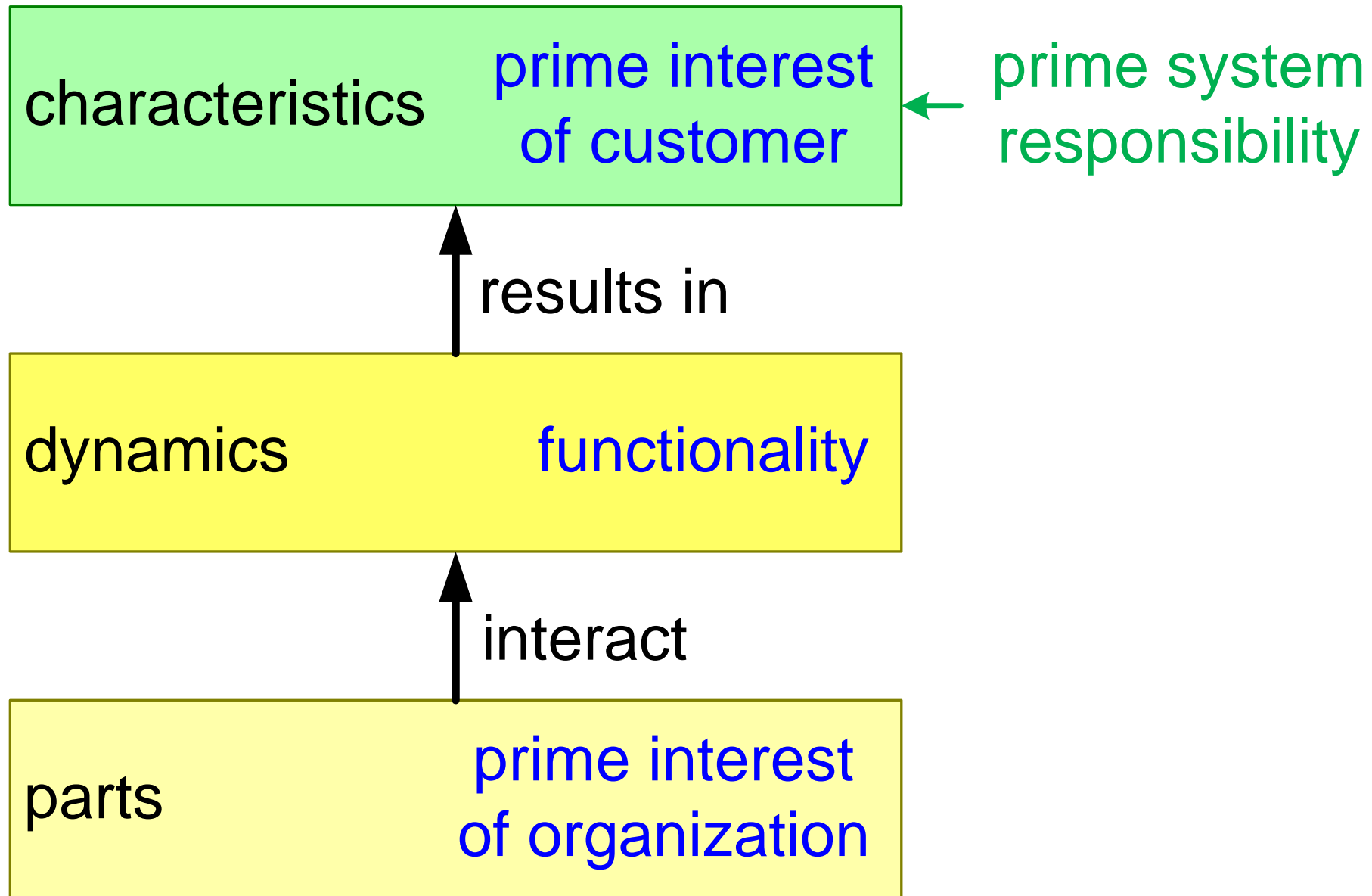
Concurrent Engineering



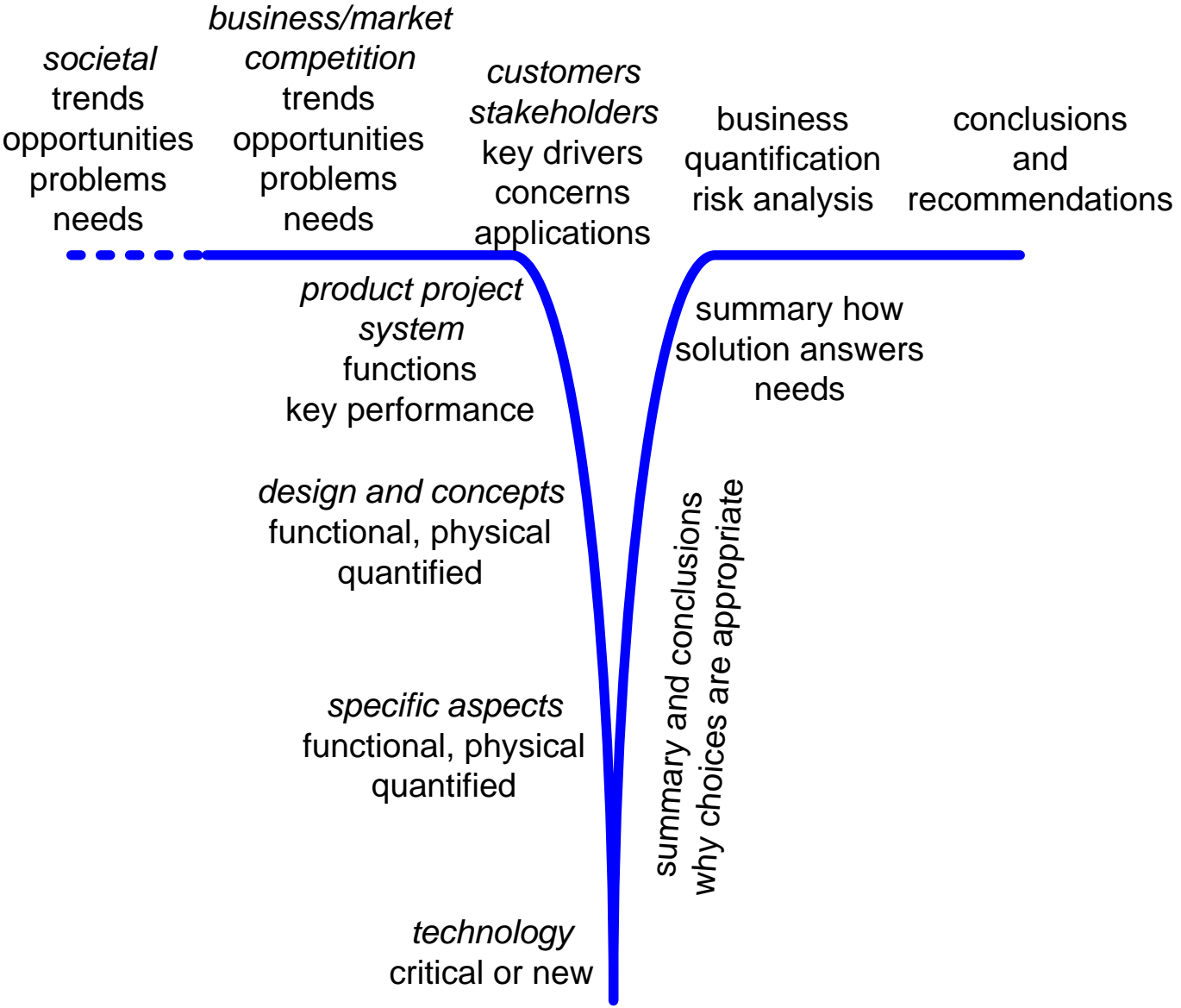
Iterative Approach



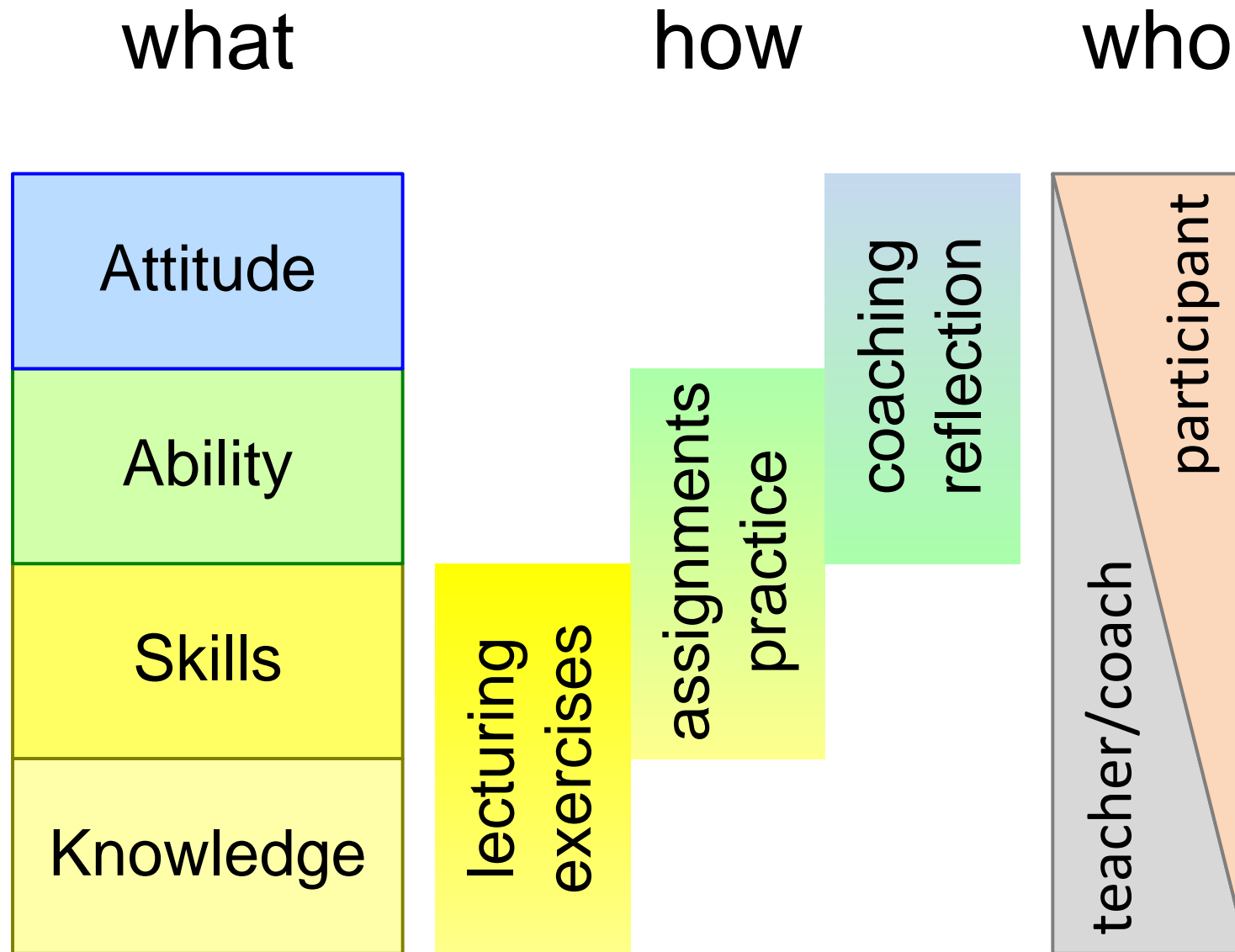
Architect and Typical Expectation from Organization



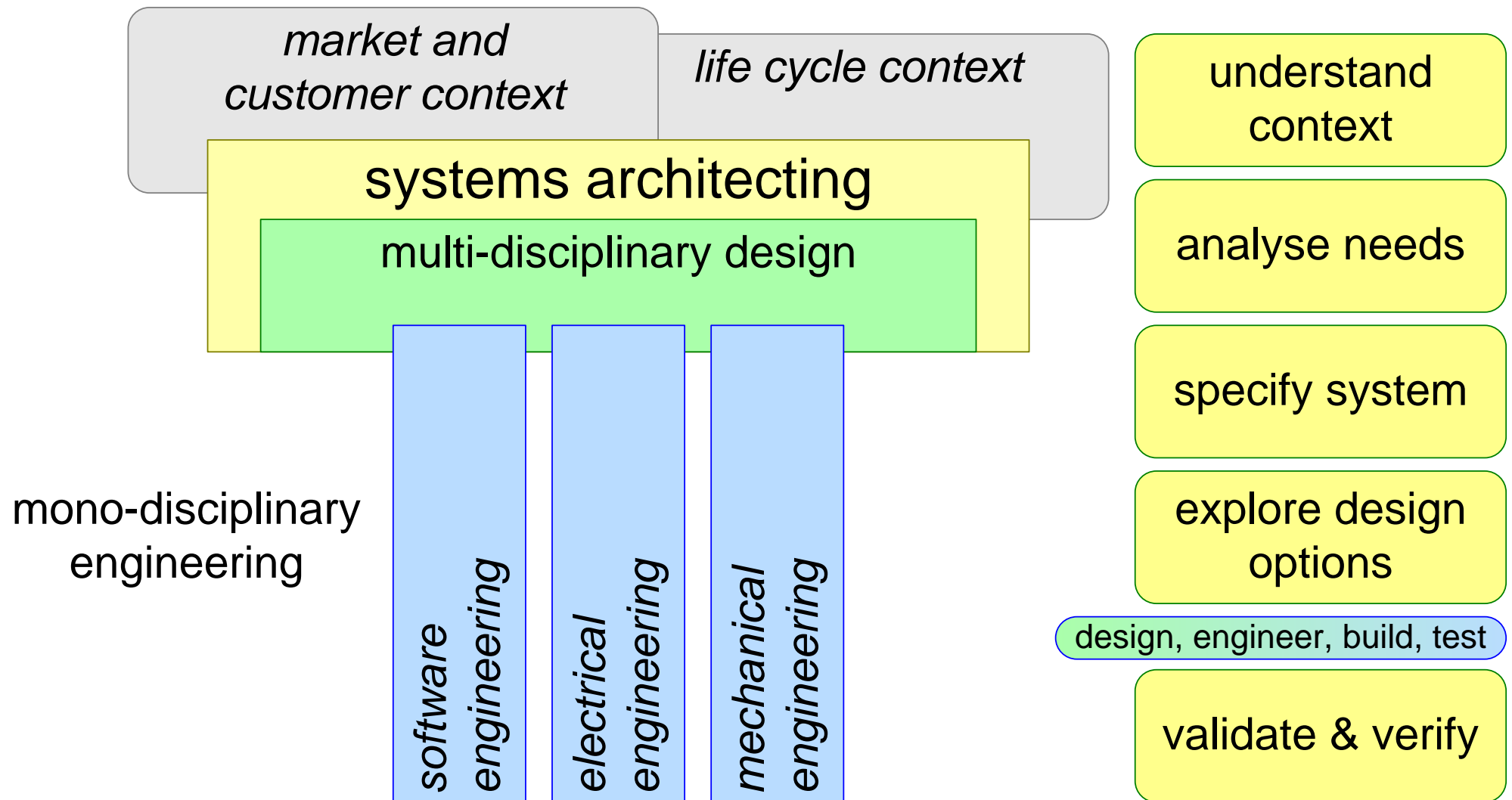
Final Delivery: T-shape Presentation to Top Management



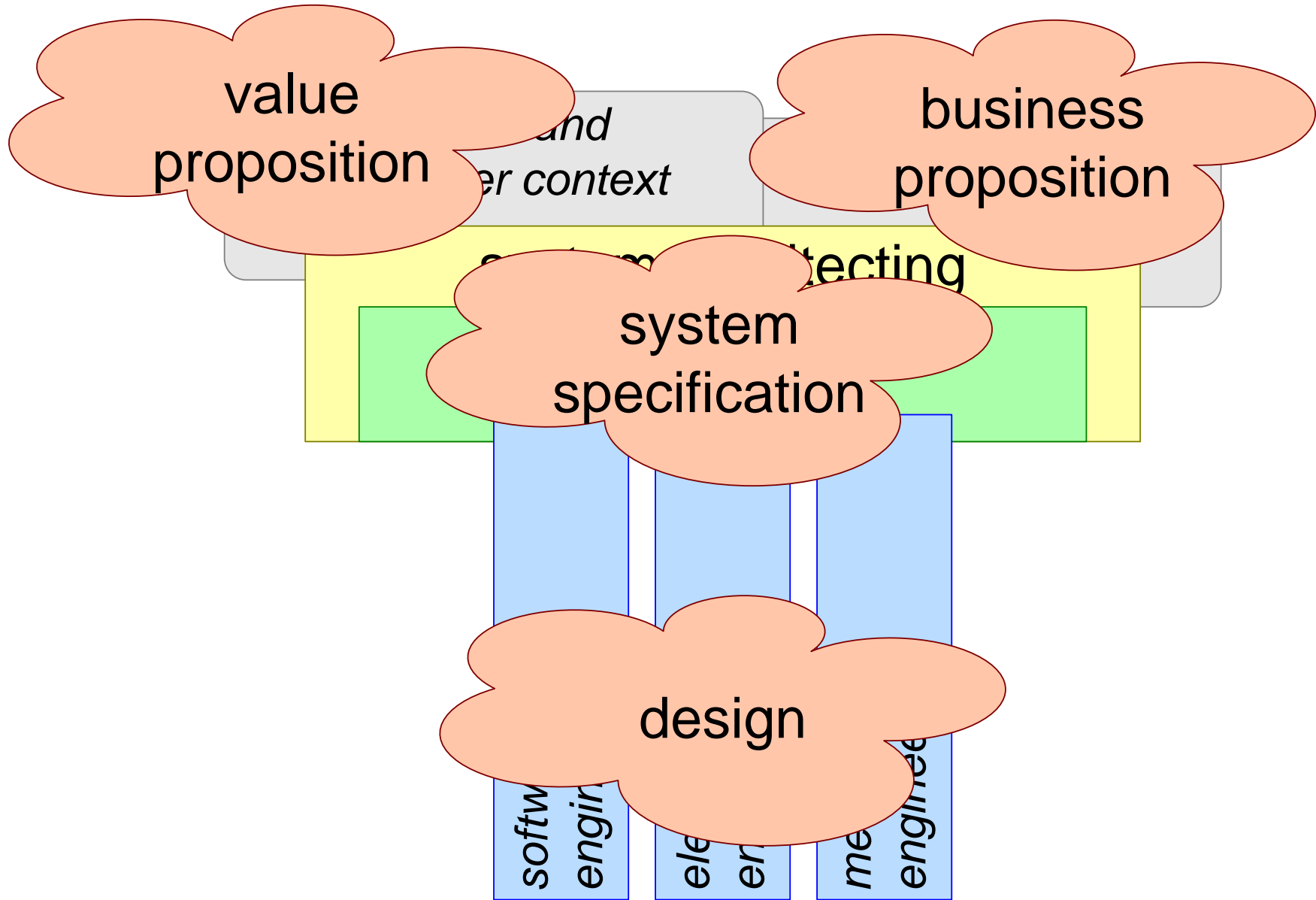
Competence Development: working at multiple levels



Architecting: Fit-For-Purpose



Delivery at the end of this module



Alternate Knowledge/Skills and Attitude

