

SEMA Basic Philosophy

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Abstract

This presentation explains the basic philosophy behind the SEMA course. The SEMA course in the first place is a course that provides an approach to architectural reasoning. Core to architectural reasoning is the ability to make conceptual models and to use them in conjunction. The course discusses how to make conceptual models, how to get input, and how to use them for analysis. Modeling is put in broader perspective, such as model evolution, simulation, and validation.

Distribution

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logo
TBD

You will mostly be working!

One Case during the course and the home work assignment

Work in teams if possible

Select a case close to your day-to-day practice

Learning by Doing

Some theory, apply on case

Case = System of interest + developing organization + some innovative change

Choice of case is critical!

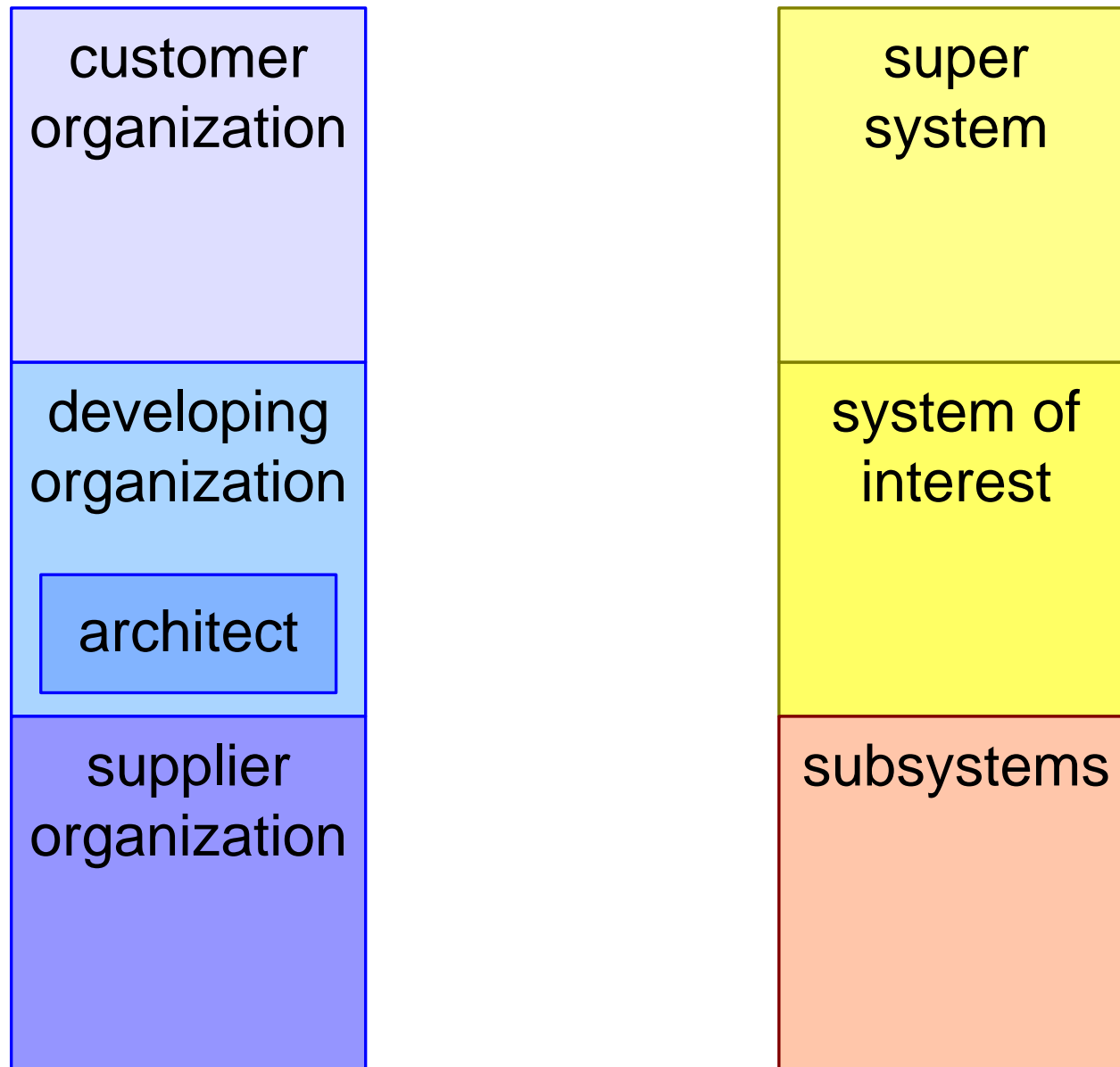
Our Primary Interest

developing
organization

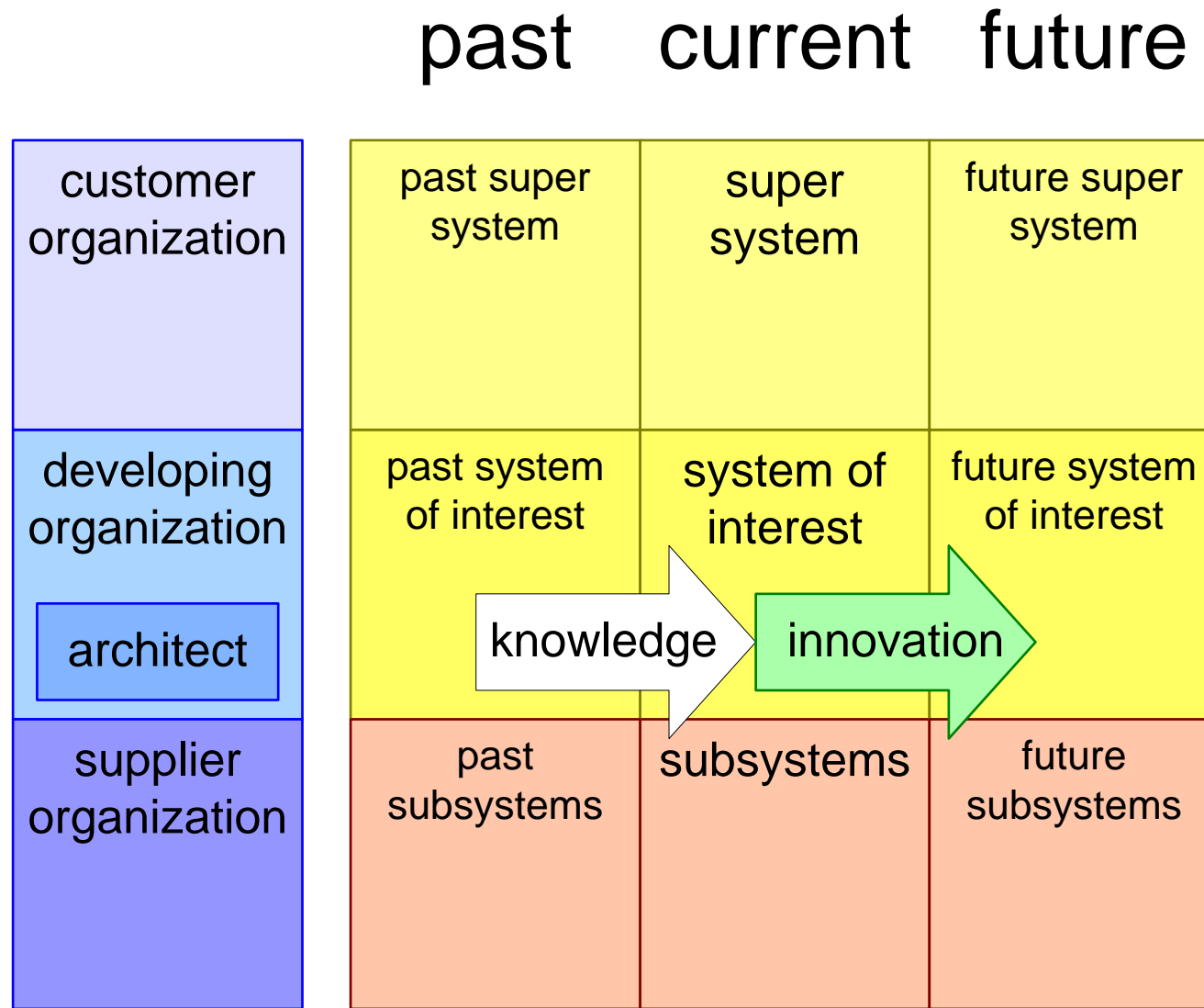
architect

system of
interest

Context, Zoom-out and Zoom-in



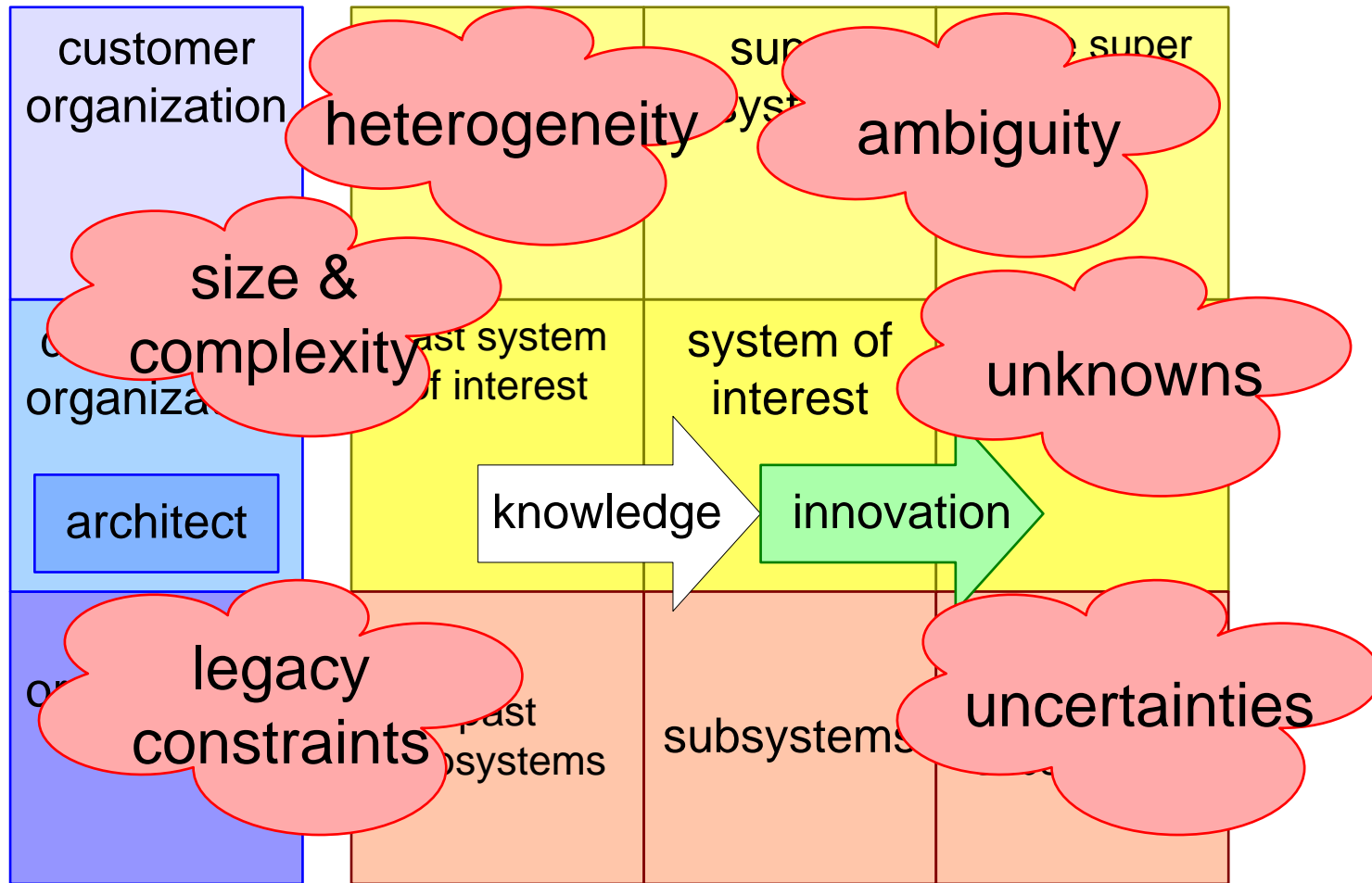
Adding the Time Dimension



based on TRIZ

Challenges

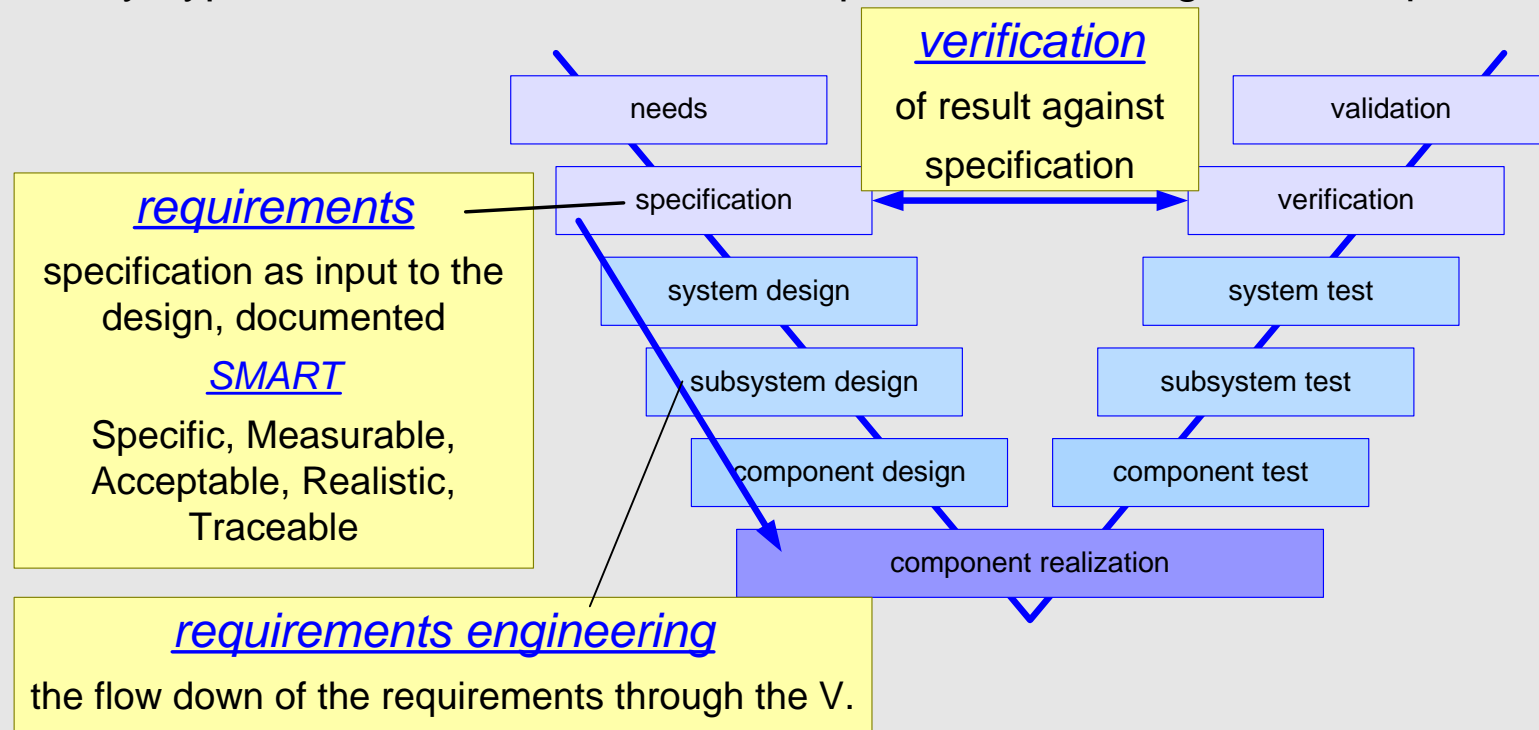
past current future



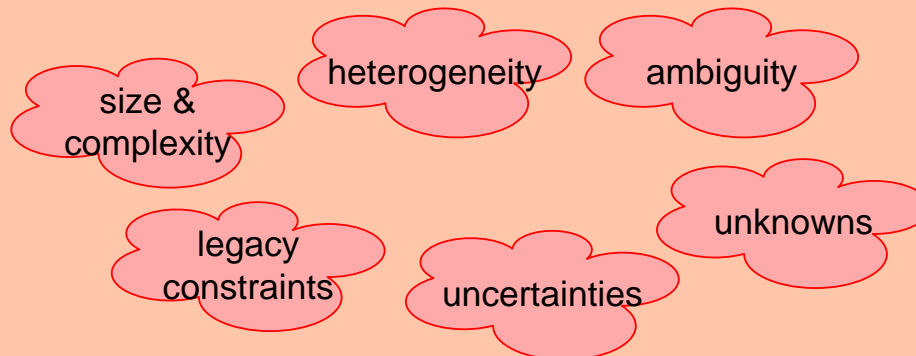
based on TRIZ

From Theory to Practice

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

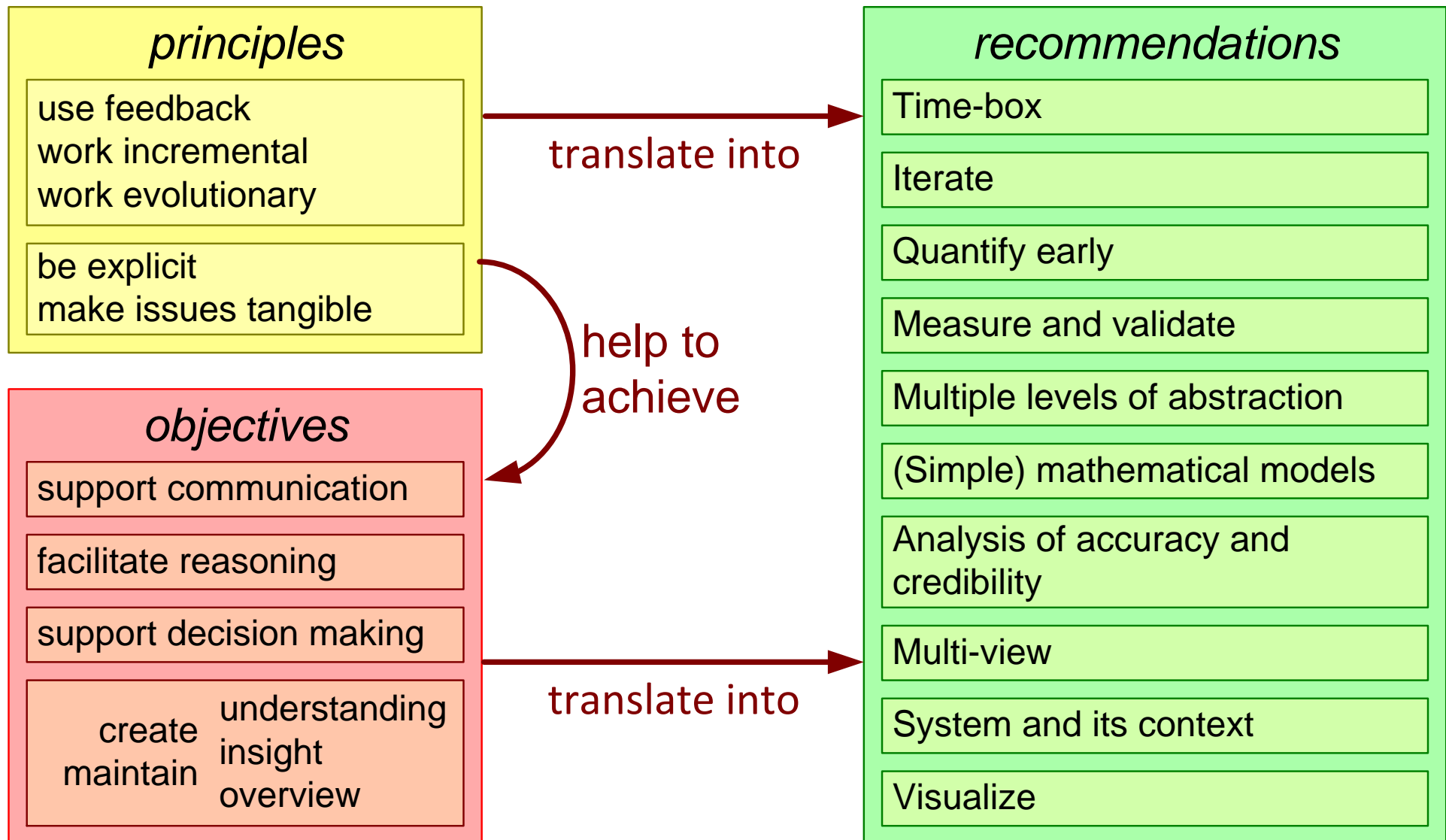


Practice: Finite knowledge and wisdom causes late disruptions



Innovation and new territory require *learning, e.g. experimenting, exploring, failing, discovering* complement with “bottom-up”

Recommendations as Red Thread



Final Delivery: Presentation to Top Management

