

Consolidating Architecture Overviews

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Abstract

This presentation provides guidelines and means to capture architecture overviews. Main challenge is to maintain the overview across multiple views. Architecture Overview A3s One support multi-view. Another challenge is to make an overview accessible for a wide range of stakeholders. The architecture description should therefor be visualized such that it fits the mental model of the audience.

Distribution

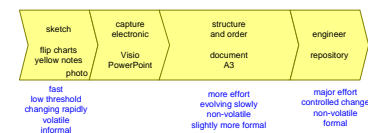
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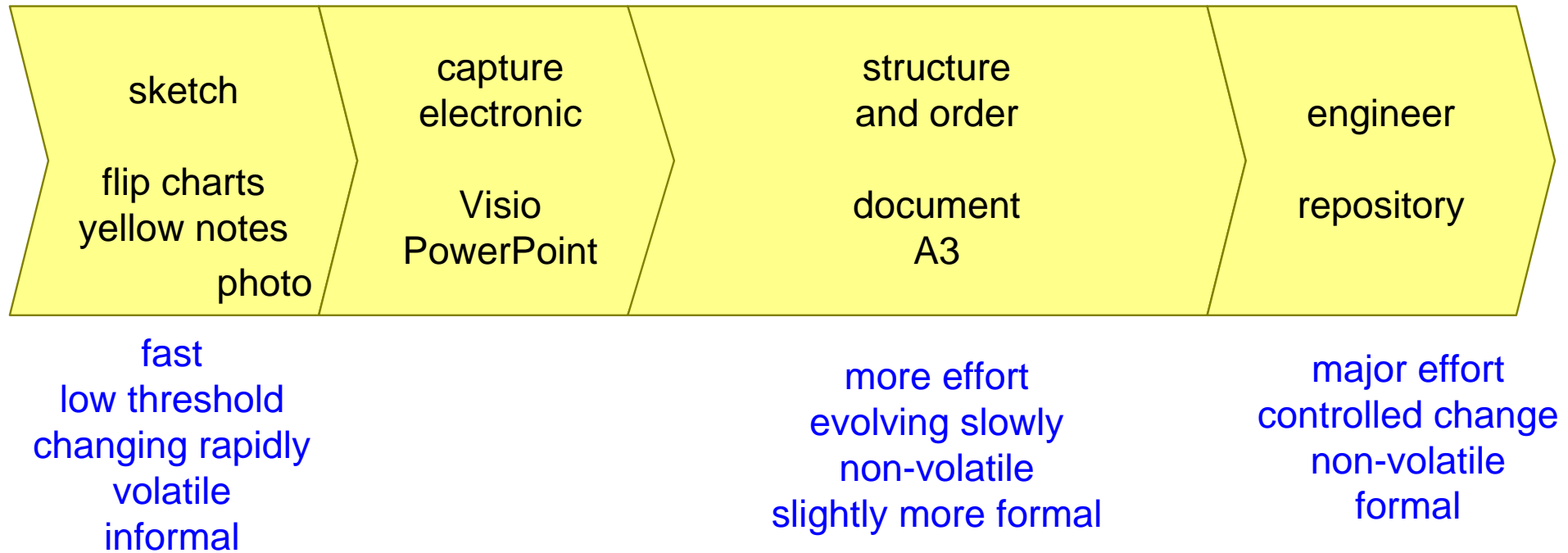
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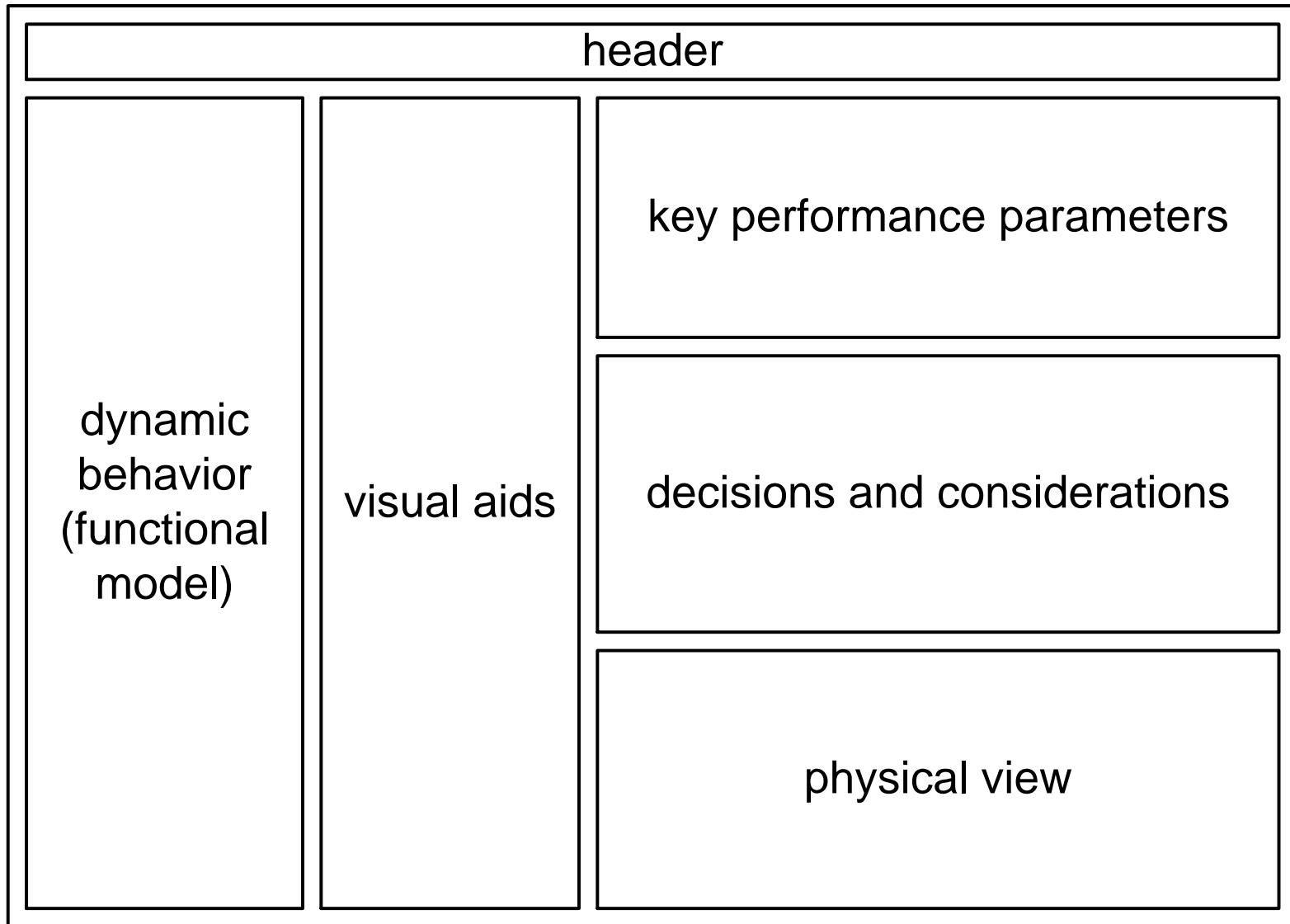
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Maturing an Architecture Description



Architecture Overview A3



simplified from <http://www.gaudisite.nl/BorchesCookbookA3architectureOverview.pdf>

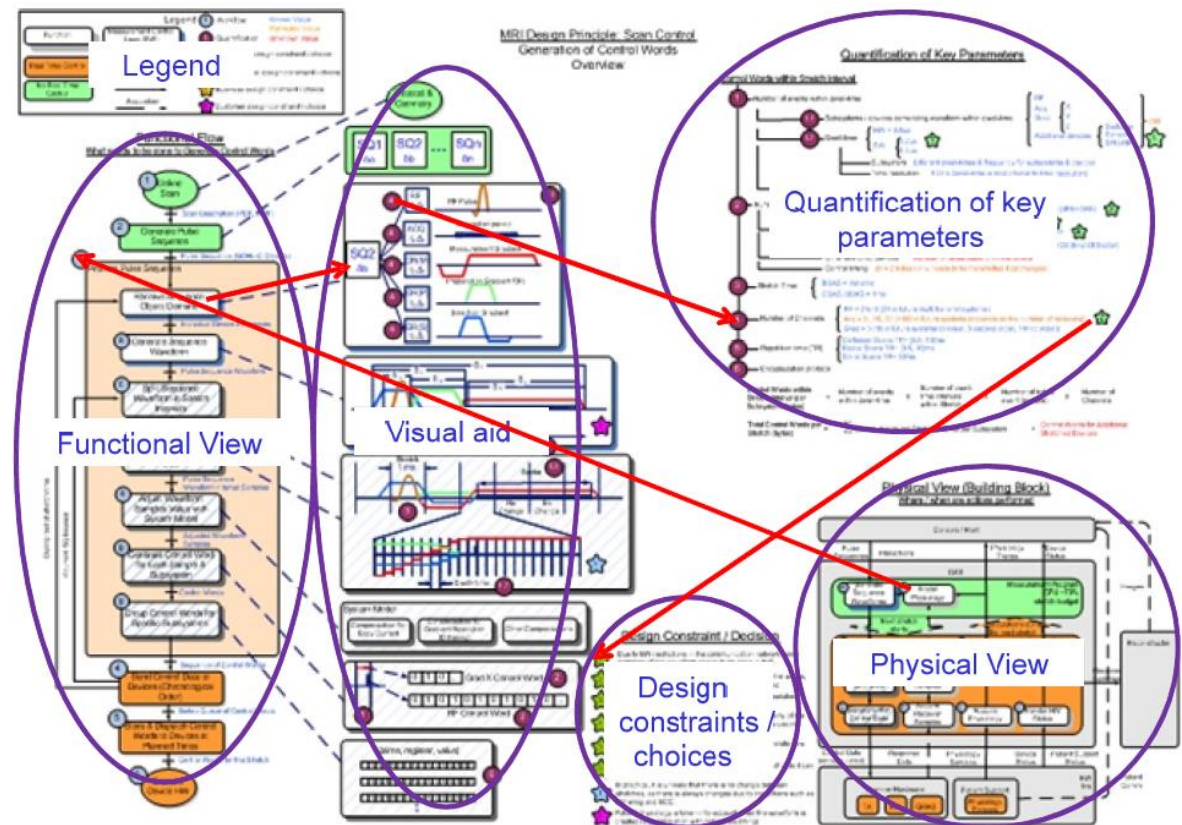
A3s to Capture Architecture Overviews

multiple related views

quantifications

one topic
per A3

capture
"hot" topics



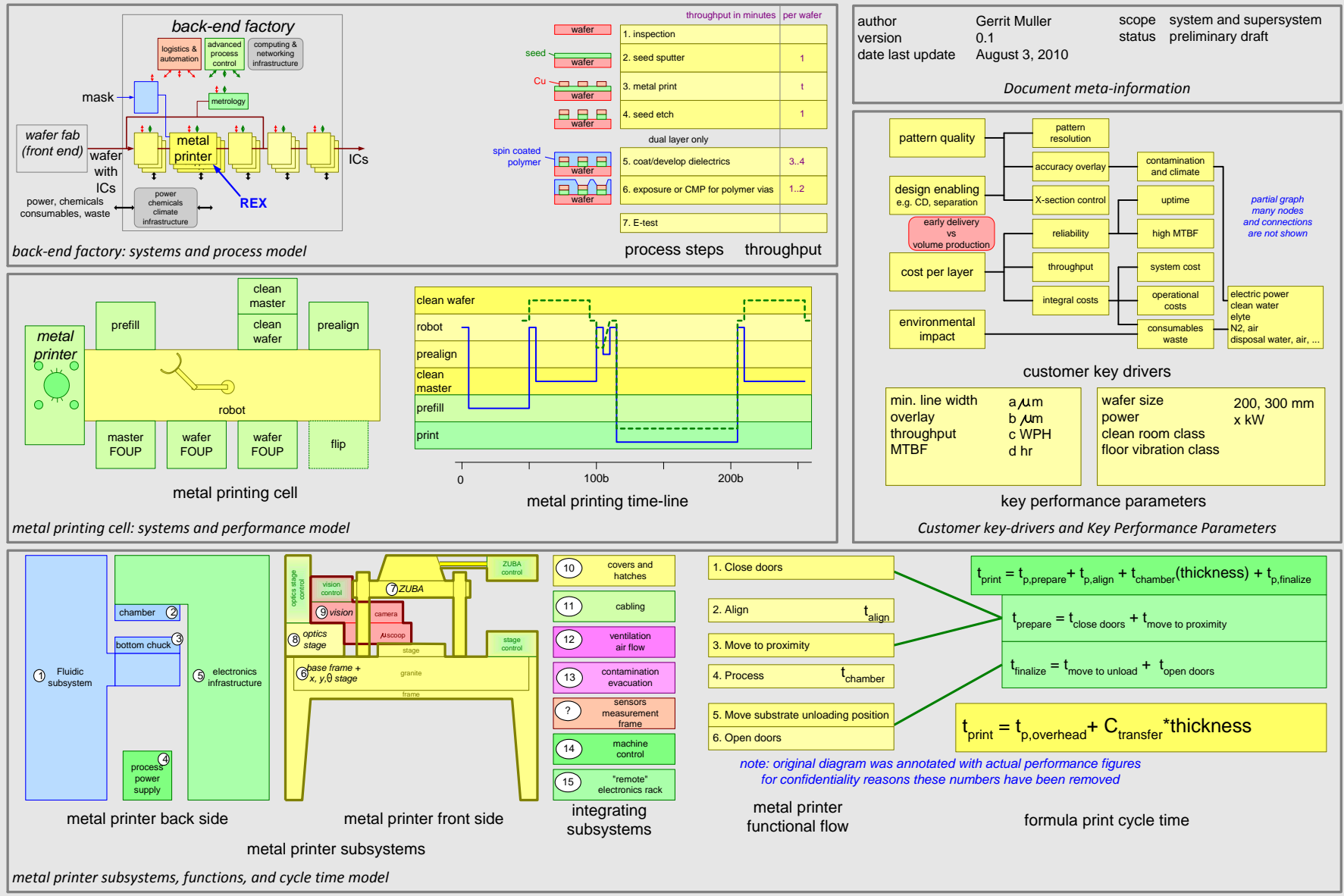
source: PhD thesis Daniel Borches <http://doc.utwente.nl/75284/>

digestable
(size limitation)

practical
close to stakeholder experience

Example of A3 Architecture Overview

A3 architecture overview of the Metal Printer (all numbers have been removed for competitive sensitivity)

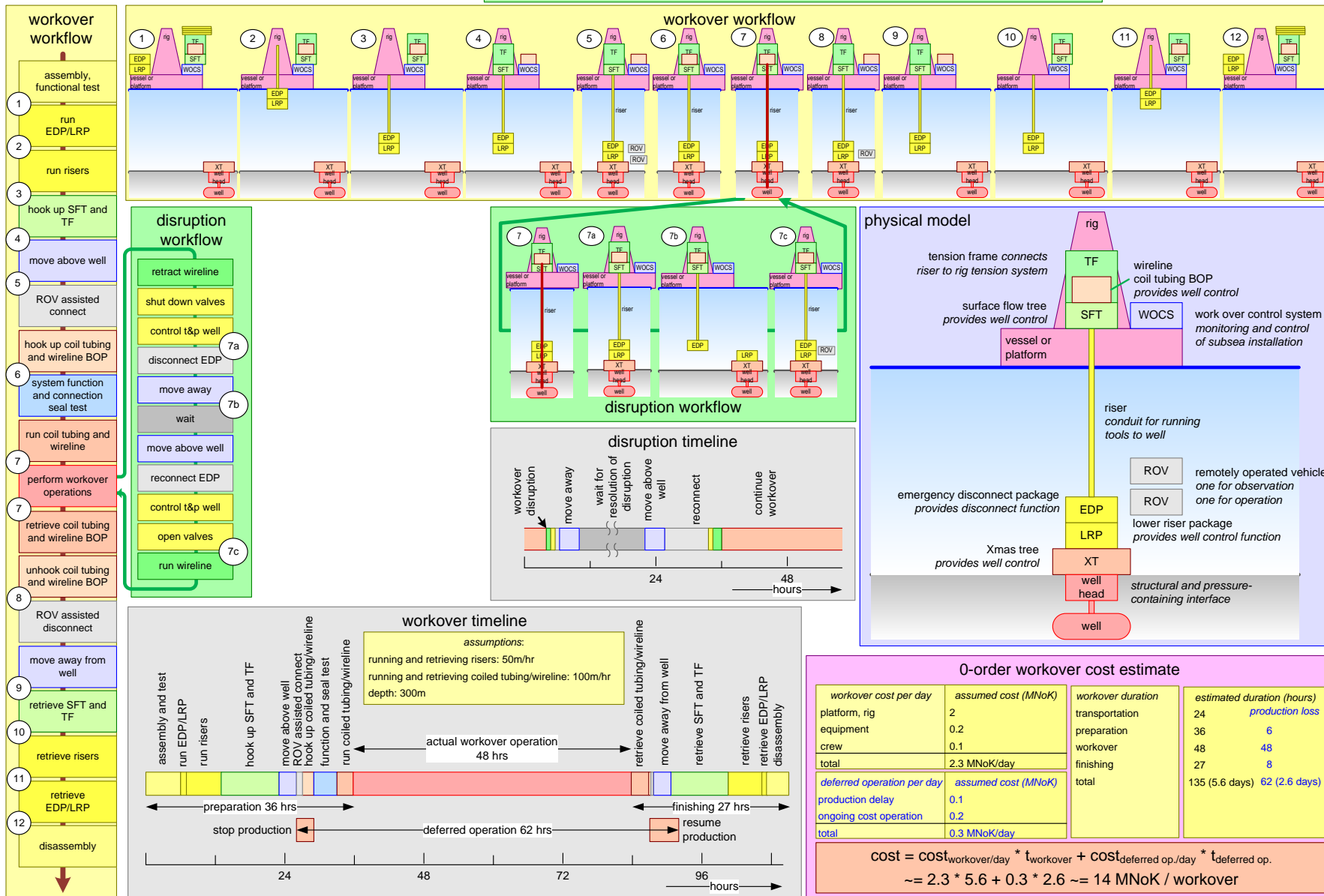


Example of SubSea A3 Architecture Overview

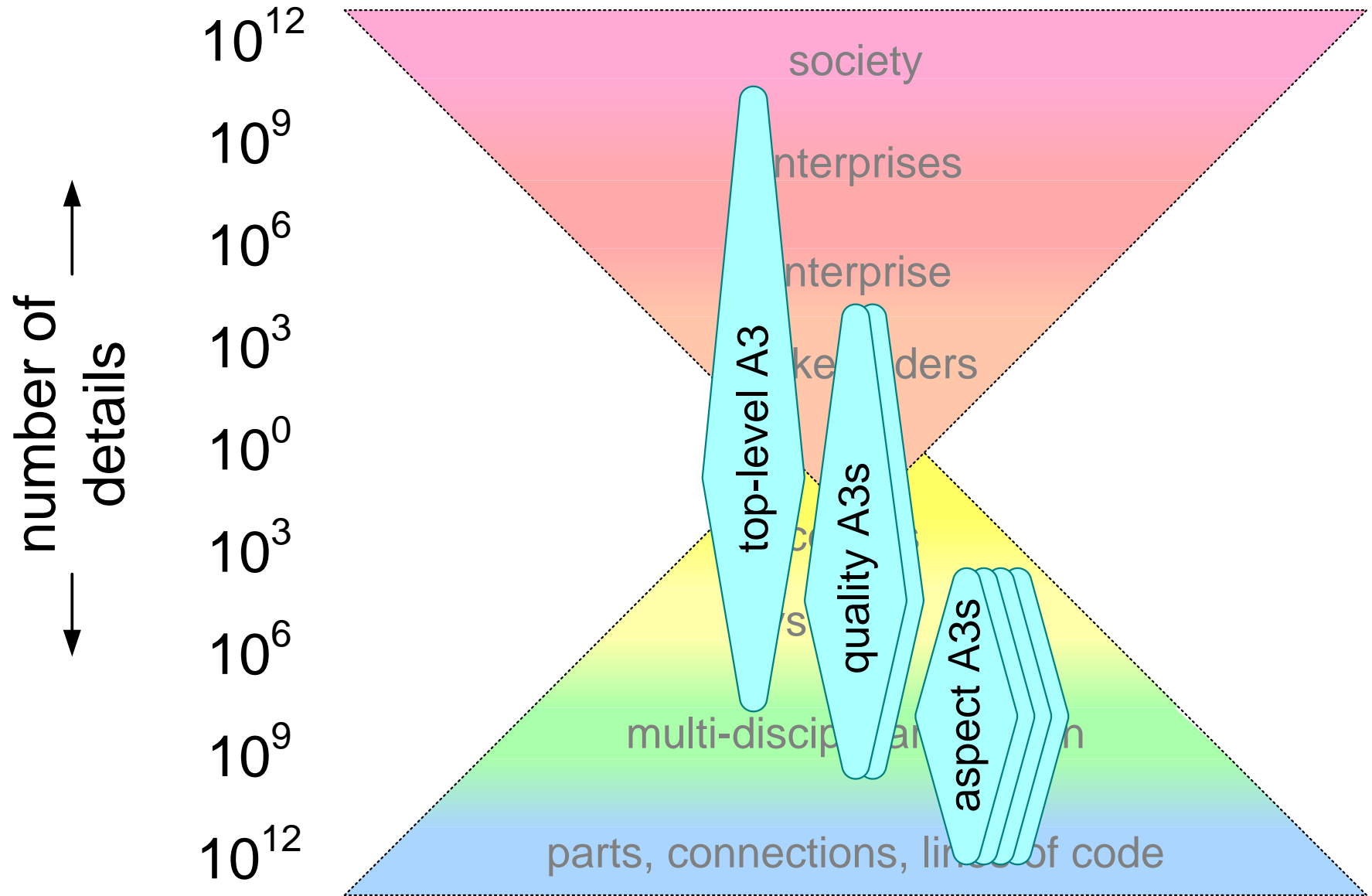
Workover operation; architecture overview

This A3 based on the work of SEMA participants: Martin Moberg^a, Tormod Strand^a, Vazgen Karlsen^f, and Damien Wee^l, and the master project paper by Dag Jostein Klever^f. ^aAker Solutions, ^fFMC Technologies

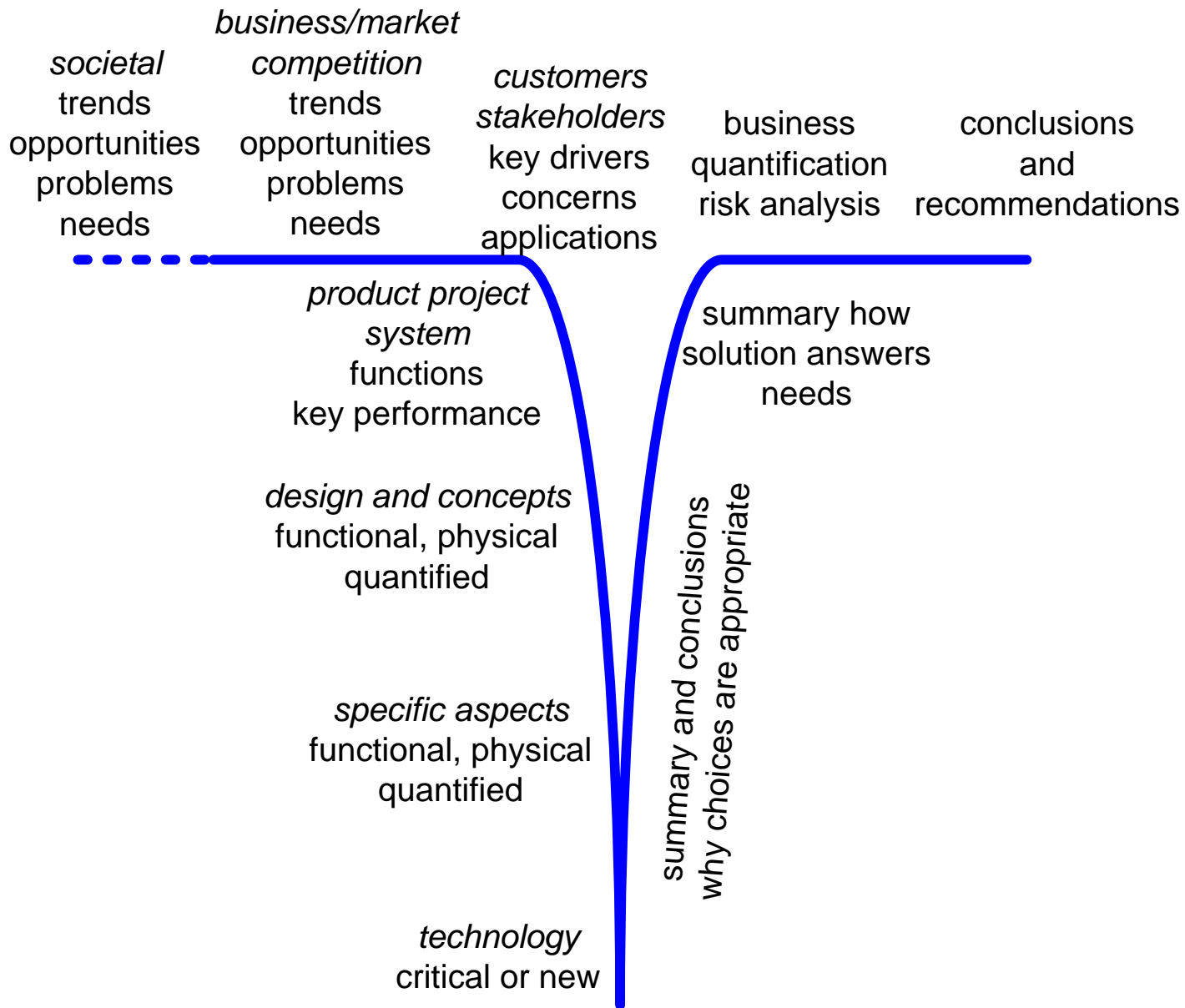
version 2.2 Gerrit Muller



Multiple Levels of A3s



T-shape Presentation



1.1 One of several prerequisites for architecture creative synthesis is the definition of **5-7 specific key drivers** that are critical for success, along with the rationale behind the selection of these items

2.1. The essence of a system can be captured in about **10 models/views**

2.2. A **diversity** of architecture descriptions and models is needed: languages, schemata and the degree of formalism.

2.3. The level of **formality** increases as we move closer to the implementation level.

from <http://www.architectingforum.org/bestpractices.shtml>