Module 39, Wrap-up

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Abstract

This module provides various means to consolidate architectures.

Distribution

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April 3, 2023
status: preliminary draft
version: 1.1

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.

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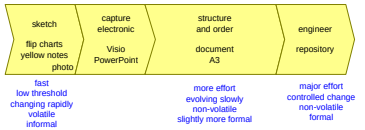
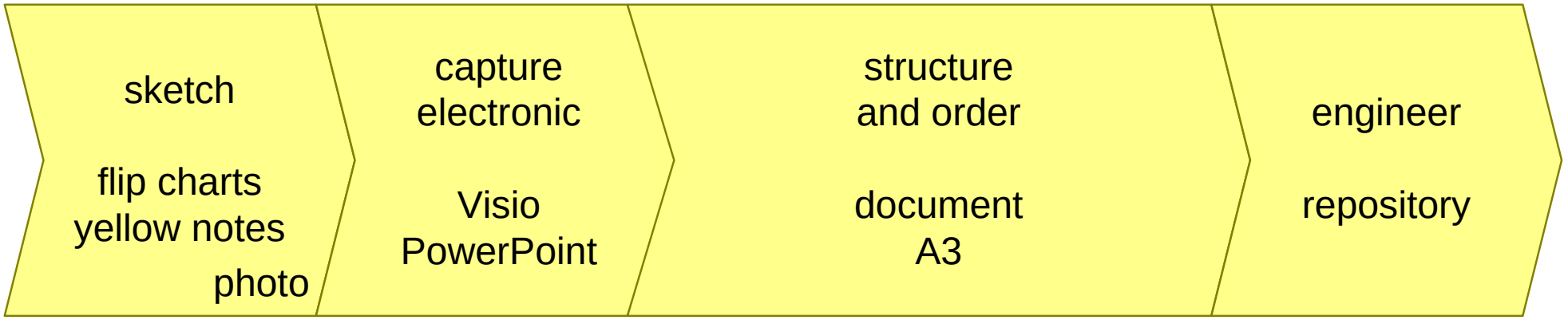
April 3, 2023
status: preliminary draft
version: 0.2



Maturing an Architecture Description

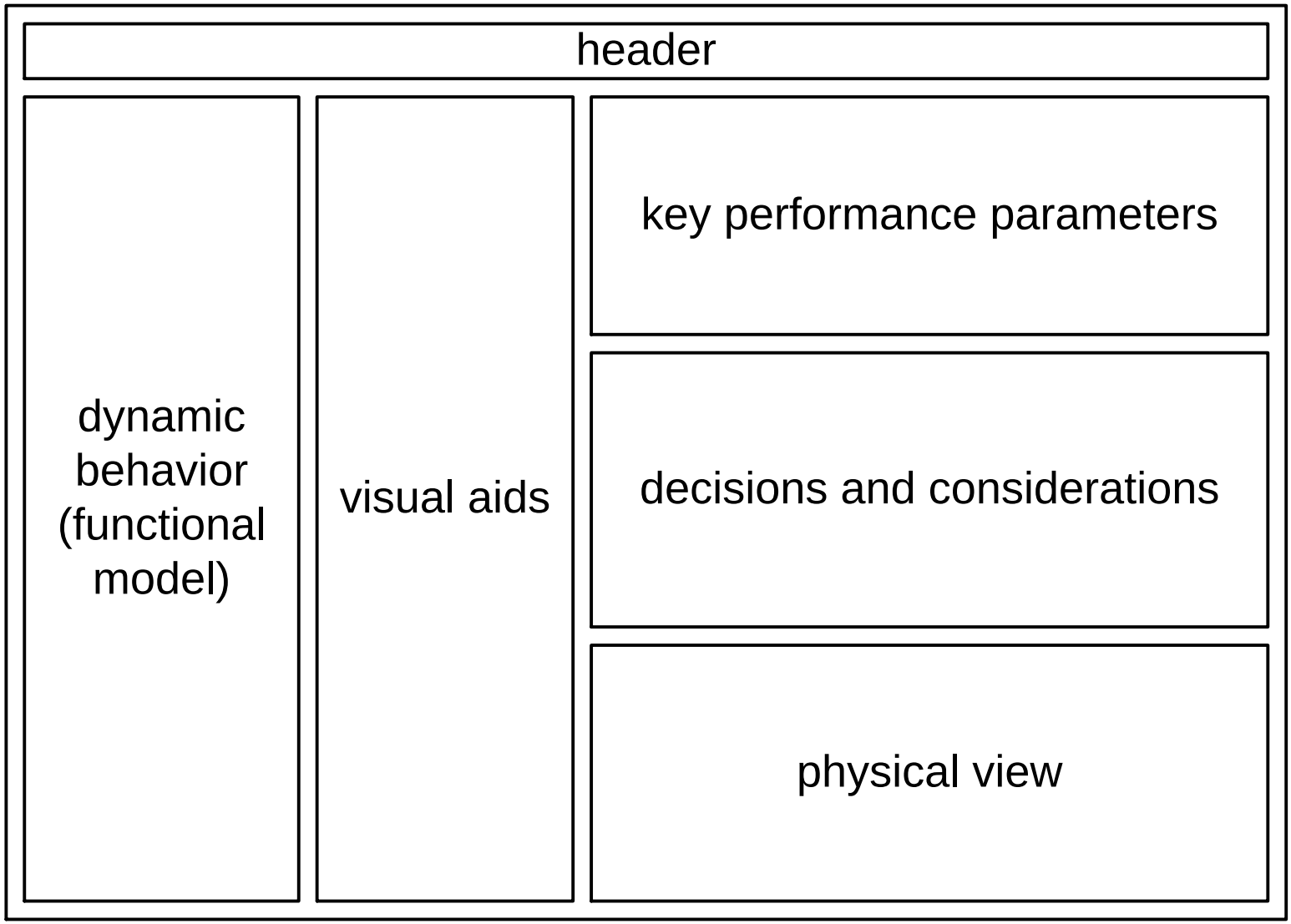


fast
low threshold
changing rapidly
volatile
informal

more effort
evolving slowly
non-volatile
slightly more formal

major effort
controlled change
non-volatile
formal

Architecture Overview A3



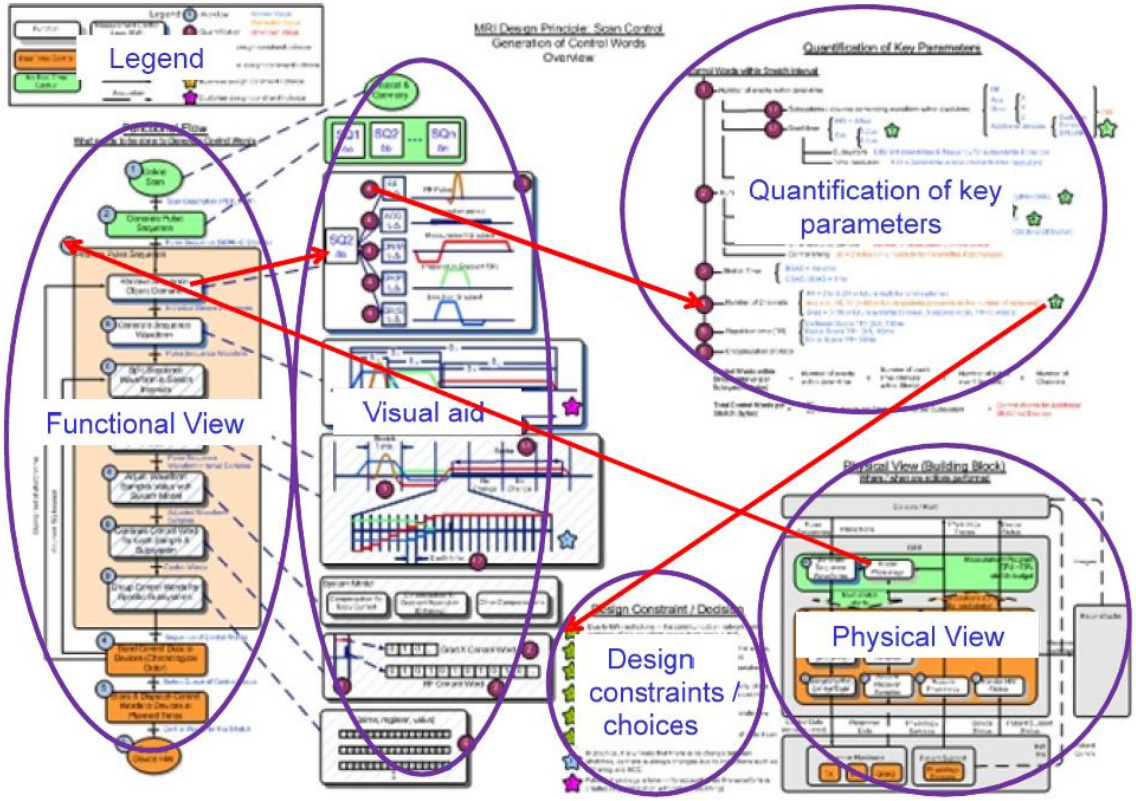
simplified from http://www.gaudisite.nl/BorchesCookbookA3architectureOverview.pdf

A3s to Capture Architecture Overviews

multiple related views

quantifications

one topic
per A3



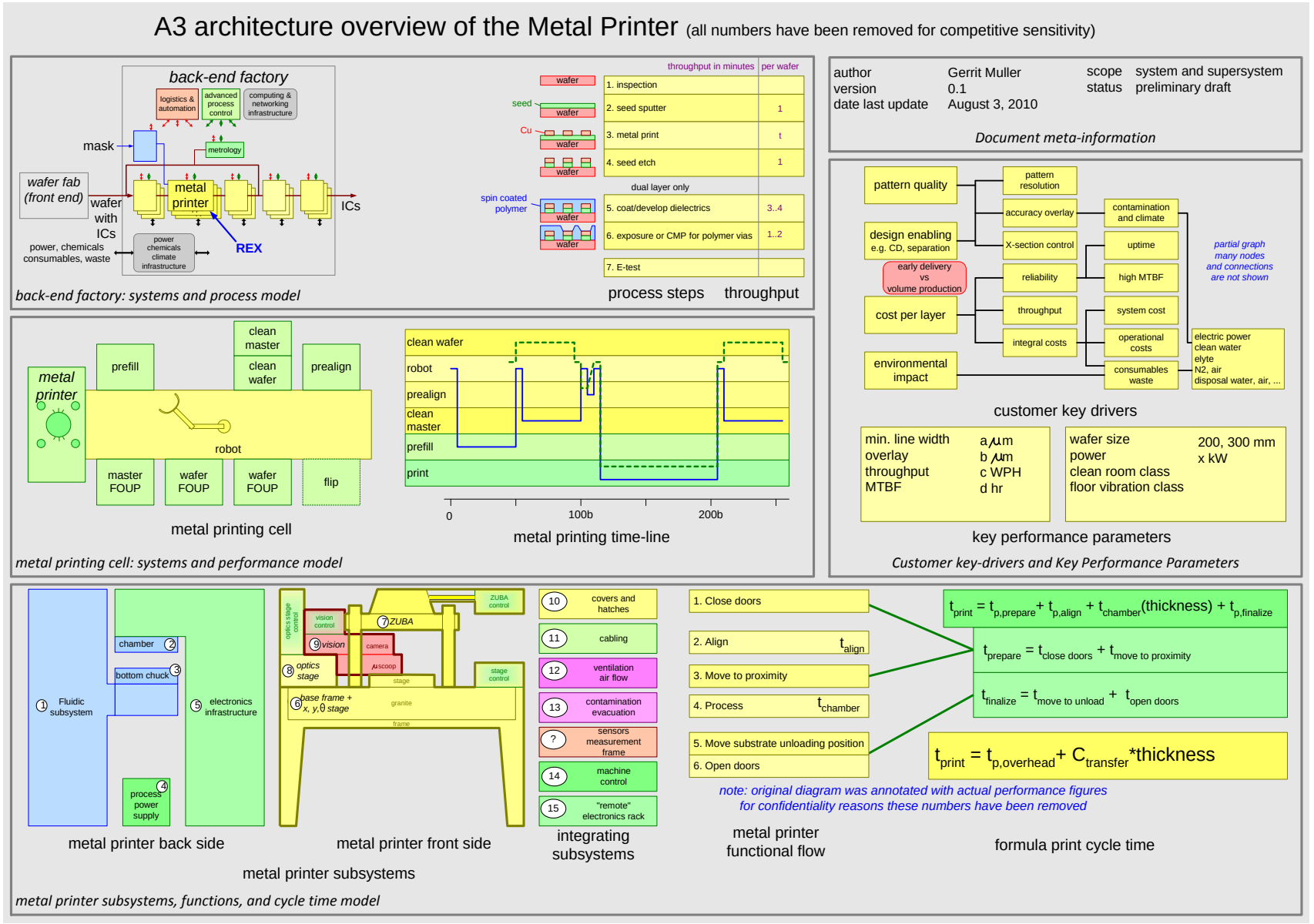
source: PhD thesis Daniel Borches http://doc.utwente.nl/75284/

capture
"hot" topics

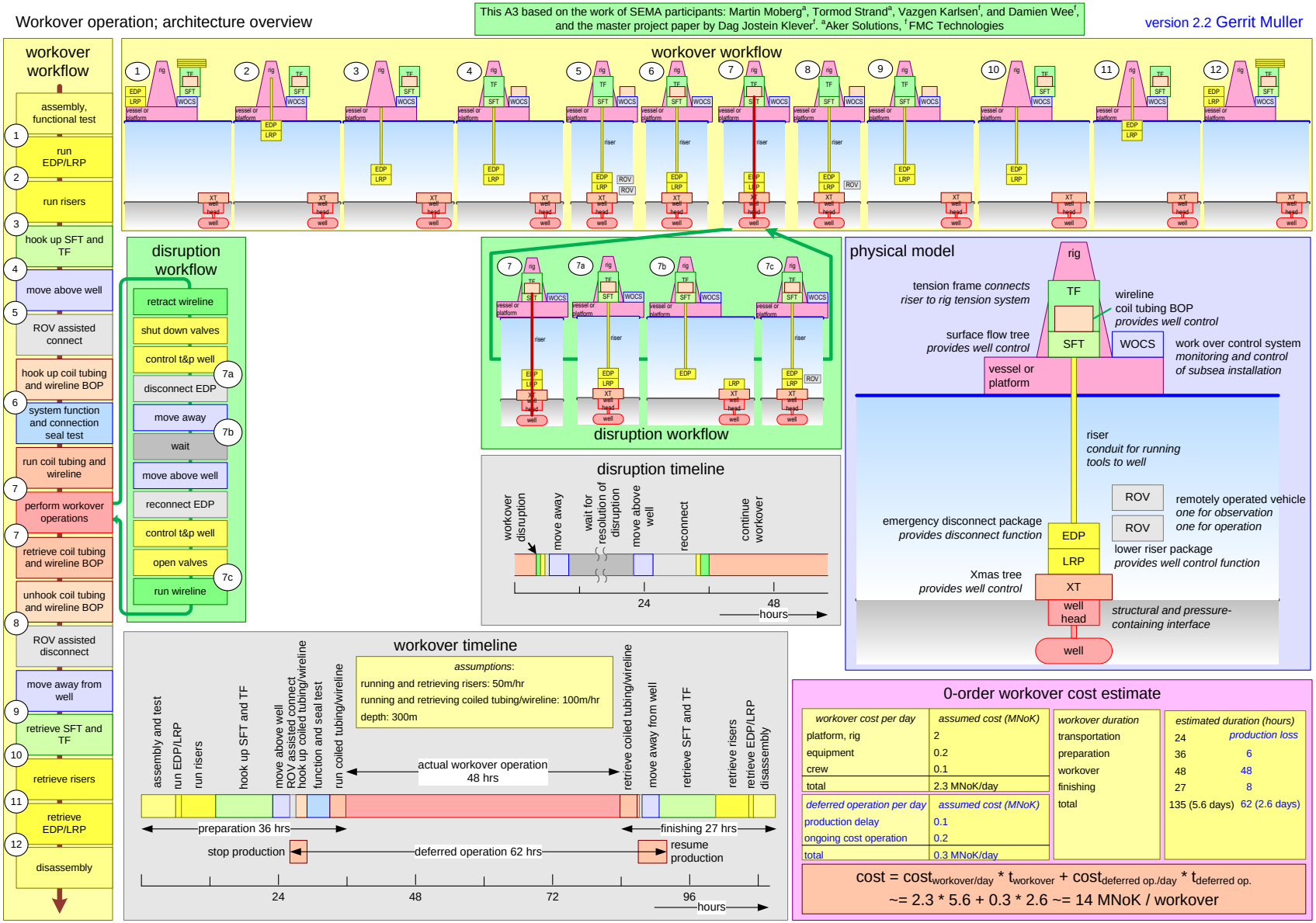
digestable
(size limitation)

practical
close to stakeholder experience

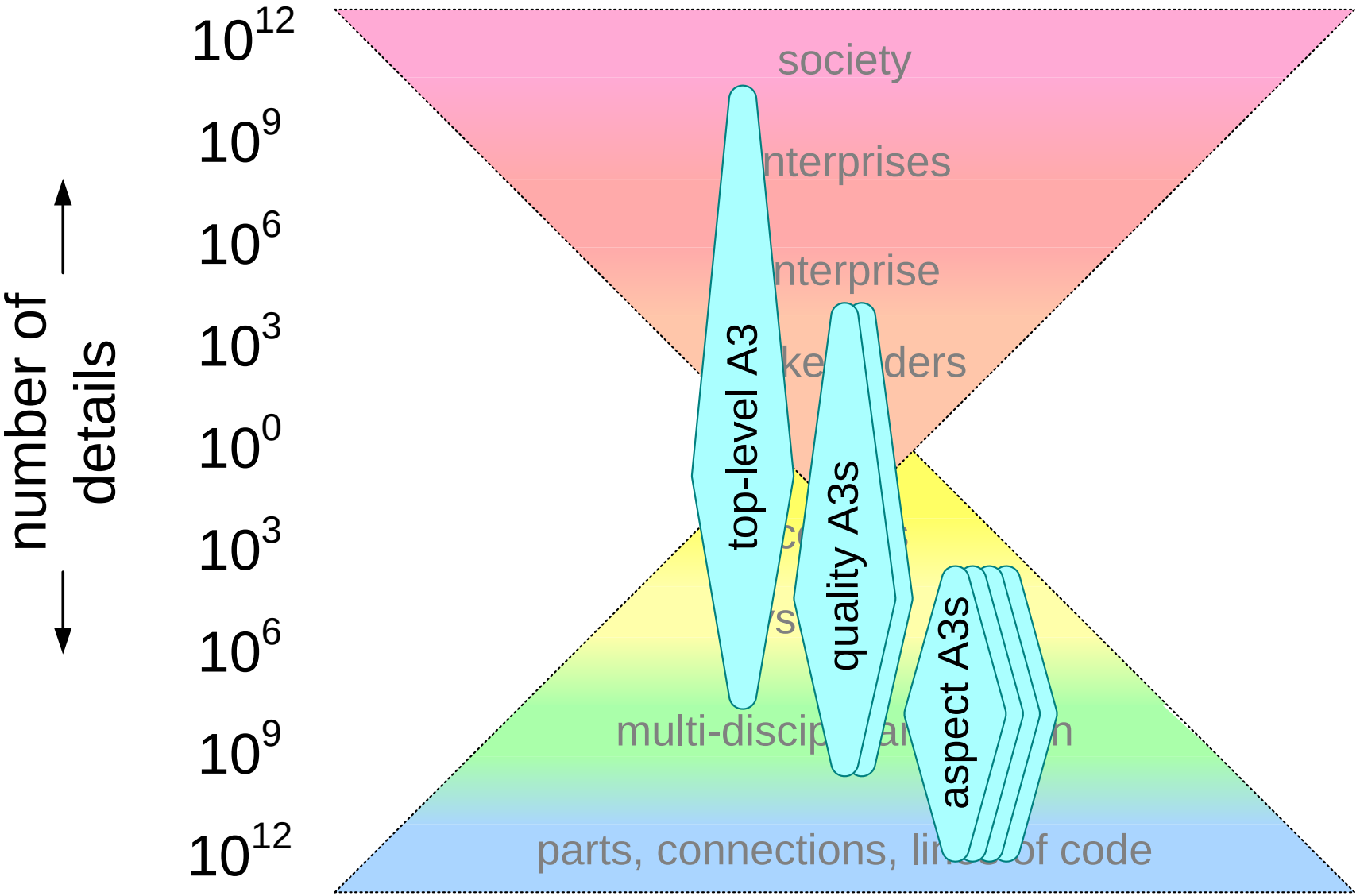
Example of A3 Architecture Overview



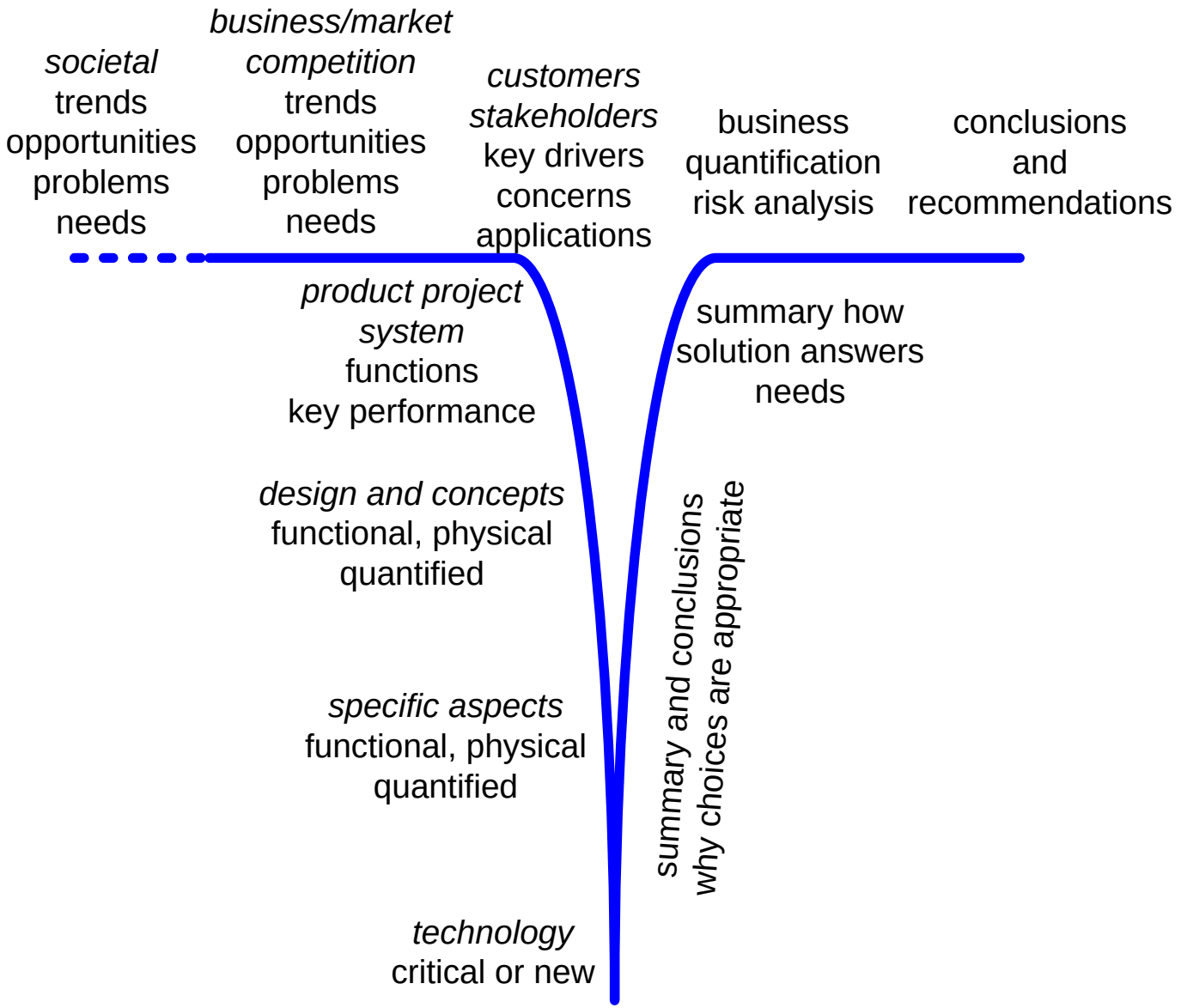
Example of SubSea A3 Architecture Overview



Multiple Levels of A3s



T-shape Presentation



Guidance from ArchitectingForum.org

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

Exercise Wrap-Up

Capture your work done during the course, e.g. **make photos** of the flip charts.

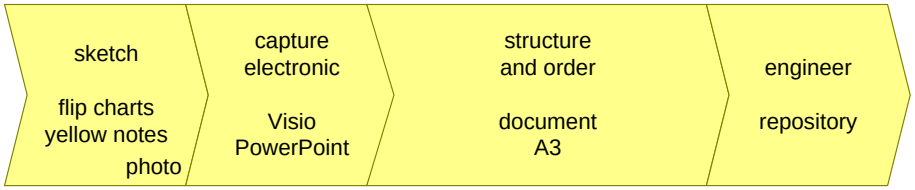
Make a list of **questions**, **assumptions**, biggest **uncertainties** and **unknowns**

Make a list of **lessons learned**

Make a plan for the **homework**

Consolidating Architectures

Maturing, from Light to Heavy

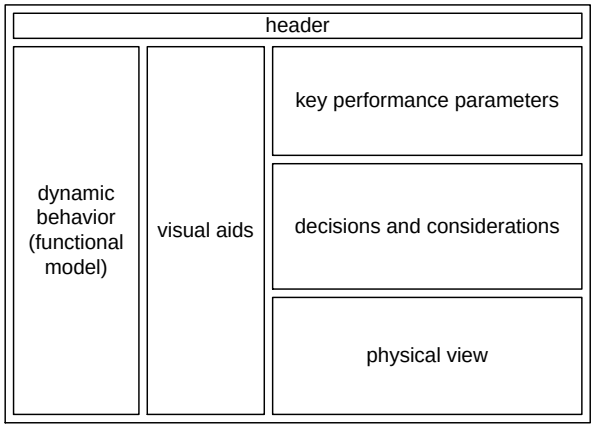


fast
low threshold
changing rapidly
volatile
informal

more effort
evolving slowly
non-volatile
slightly more formal

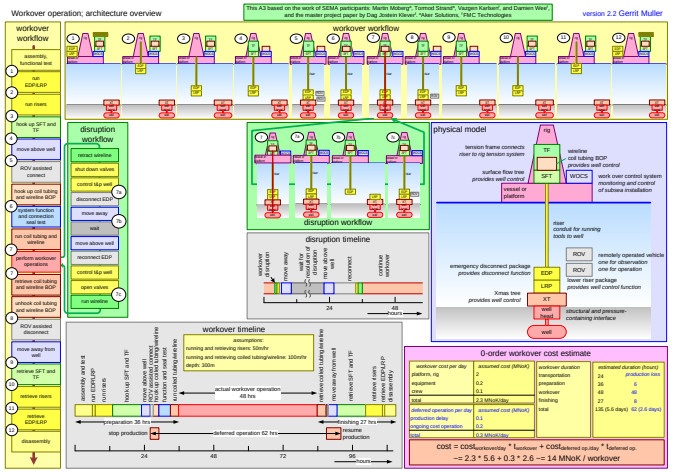
major effort
controlled change
non-volatile
formal

A3 Architecture Overview

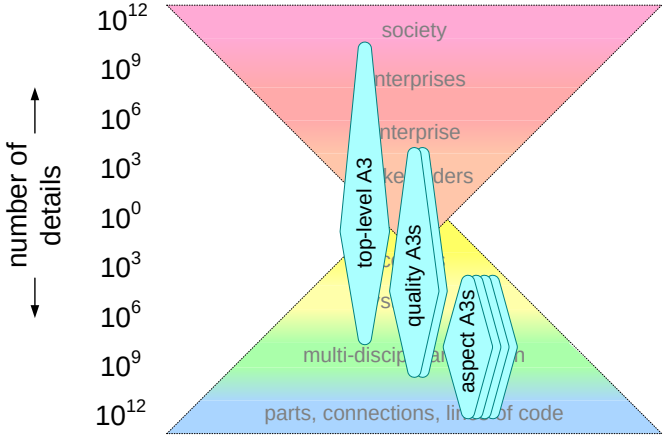


simplified from http://www.gaudisite.nl/BorchesCookbookA3architectureOverview.pdf

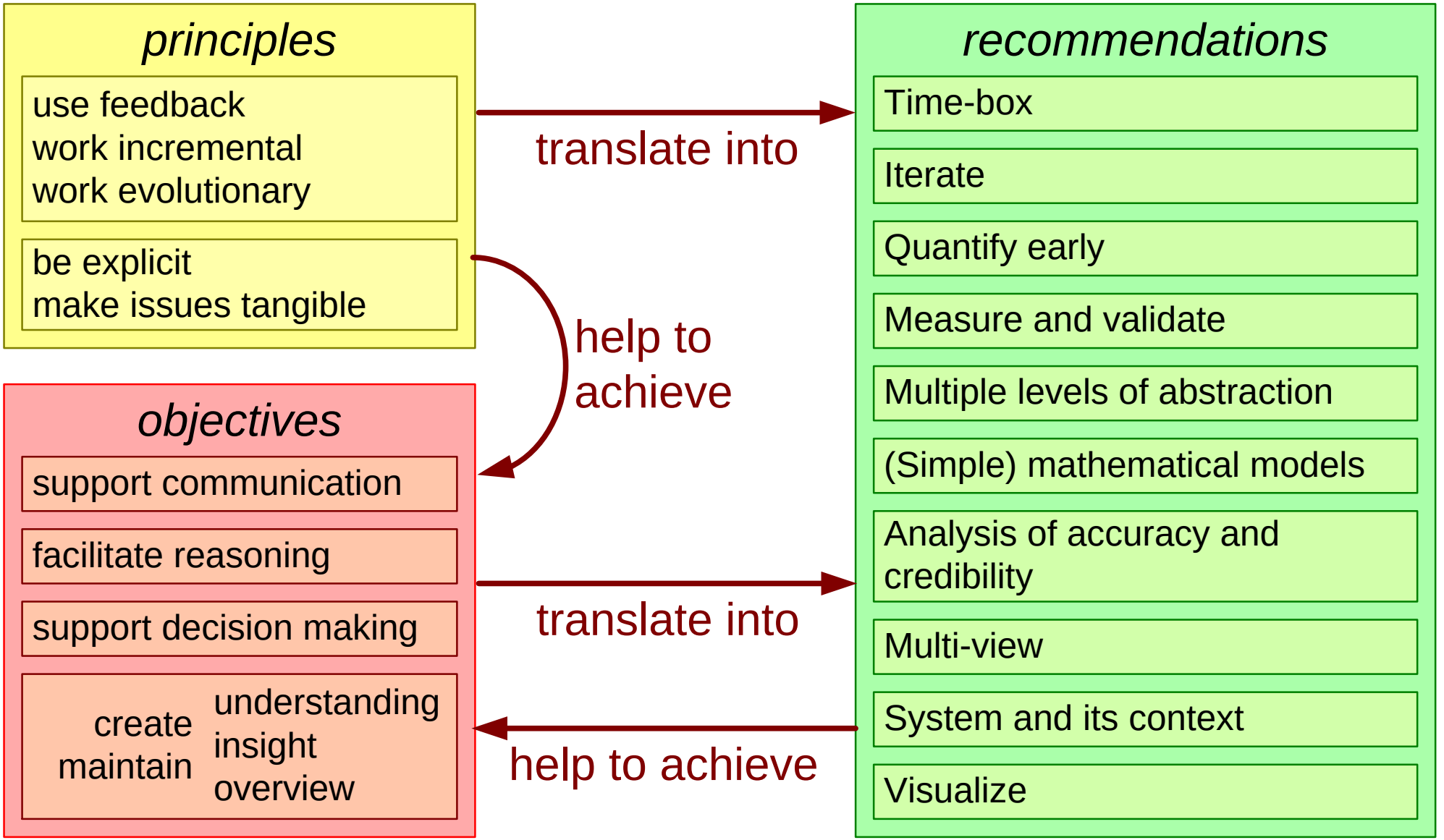
Subsea A3



Multiple Levels of A3s



Recommendations as Red Thread



SEMA Homework Assignment

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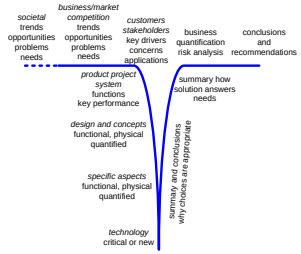
Abstract

This document described the homework assignment for the SEMA course. The homework is made and delivered incrementally, so that the teacher can provide feedback during the assignment.



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Group Assignment

Submit each step to the teacher, and process feedback in the next step

Step 1. weeks 1..3

- Consolidate work of course in 20 slide presentation as baseline.
- Search for answers to the main questions, biggest uncertainties and unknowns, validate main assumptions.
- Elaborate most relevant models.
- Discuss your work with other stakeholders to collect more facts and figures and for erly validation

Step 2. weeks 4..6

- Transform the presentation into a T-shape presentation
- Identify gaps in the “T”
- Make simple models to eliminate the gaps

Step 3 weeks 7..9

- Identify required changes in models made so far, due to increased insight;
- Change one of the models accordingly.
- Evolve the T-shape presentation (max 20 slides); the target audience of this presentation is your management.
- Present to company management
- Identify next models to be made, measurements to be done, or fact finding to take place.
- Update the presentation with feedback from management and a list of future work.

Individual Assignment

Write an individual reflection report after finishing the group assignment, answering the following questions:

- What are the main gaps in the current proposal and presentation? What 3 gaps will you address first, and why?
- In retrospect, formulate a problem statement that triggered the outcoming presentation and underlying modeling effort.
- What would you do differently if you would have to prepare this presentation again?
- How and what are you going to apply elements of this course in practice?

Be specific and use examples.

preferred size 2 A4s, max 4 A4s.

Submission Instructions

Submission instructions

use for all deliverables the following conventions:

filename: SEMA <your name or team> <subject>.<version>.<extension>

e.g. SEMA WOSteam presentation.2.doc

or SEMA John Student individual report.1.docx

email to: <gerrit . muller@usn . no>

subject: SEMA <subject>

and submit in WiseFlow before the deadline.

"standard" file types preferred, e.g. pdf, jpg, doc, ppt, vsd, docx, xls, xlsx, ppt, pptx