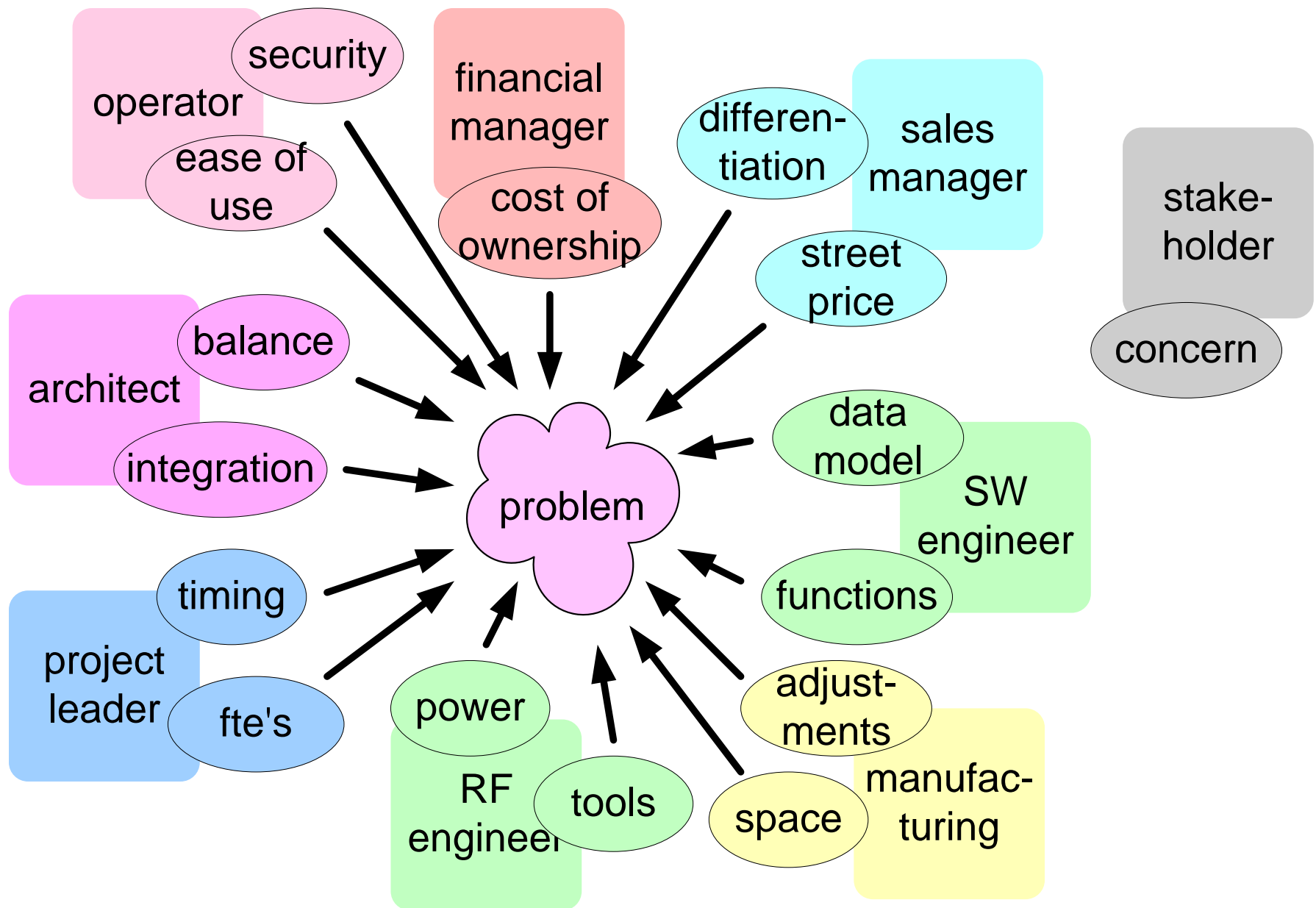
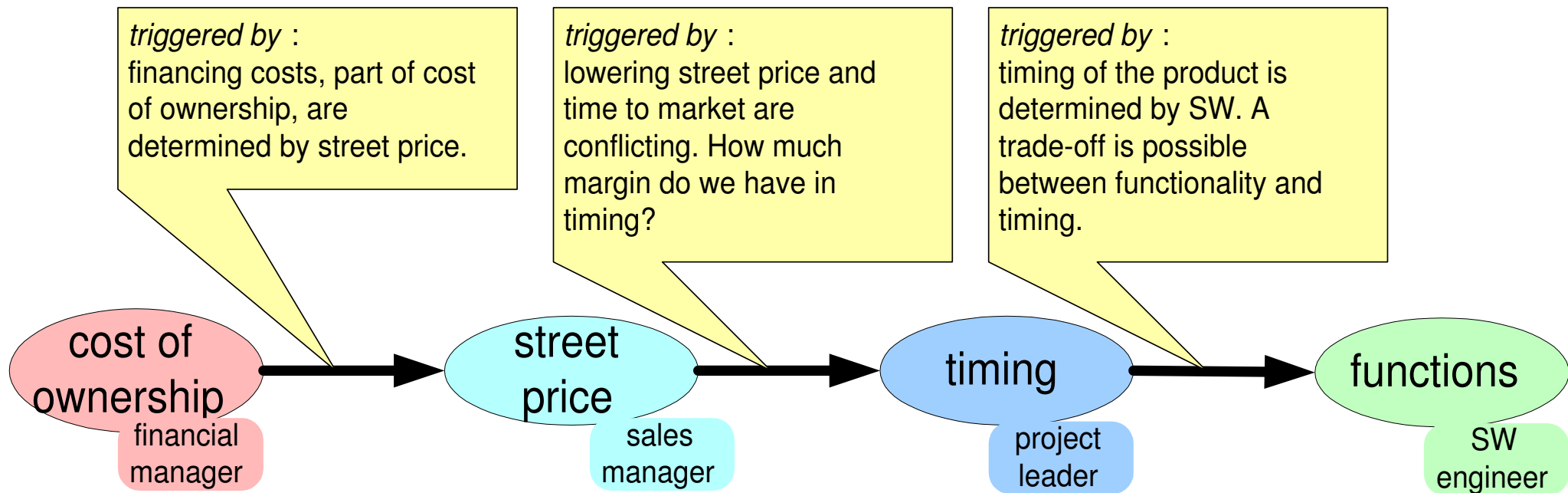


Many viewpoints



Viewpoint Hopping



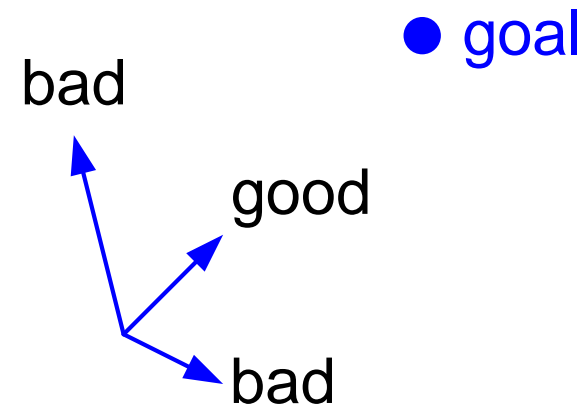
Scanning modes of the architect

open
perceptive
scanning

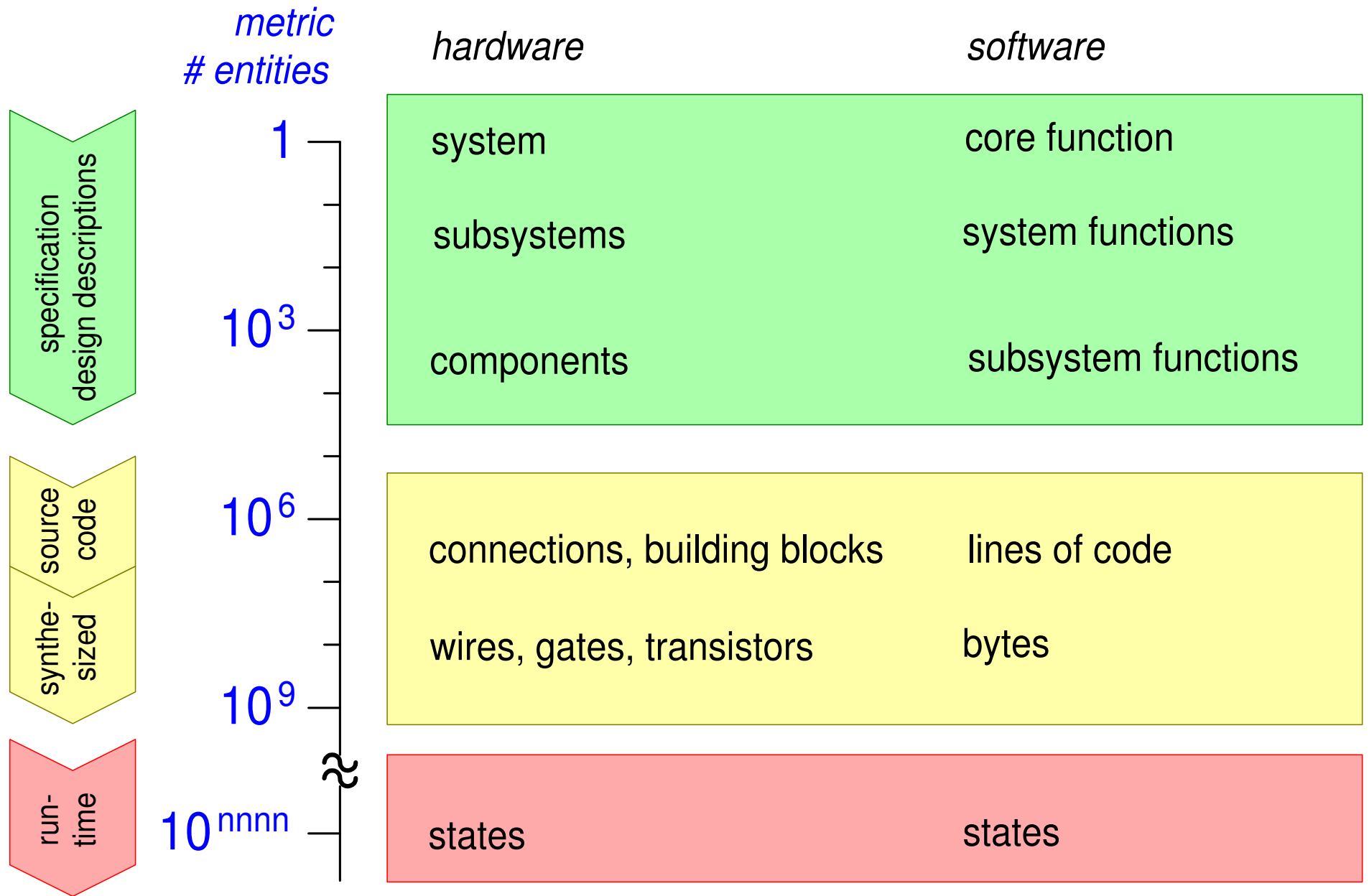


drunkard's walk
the world is full
of interesting
needs, technologies, ...

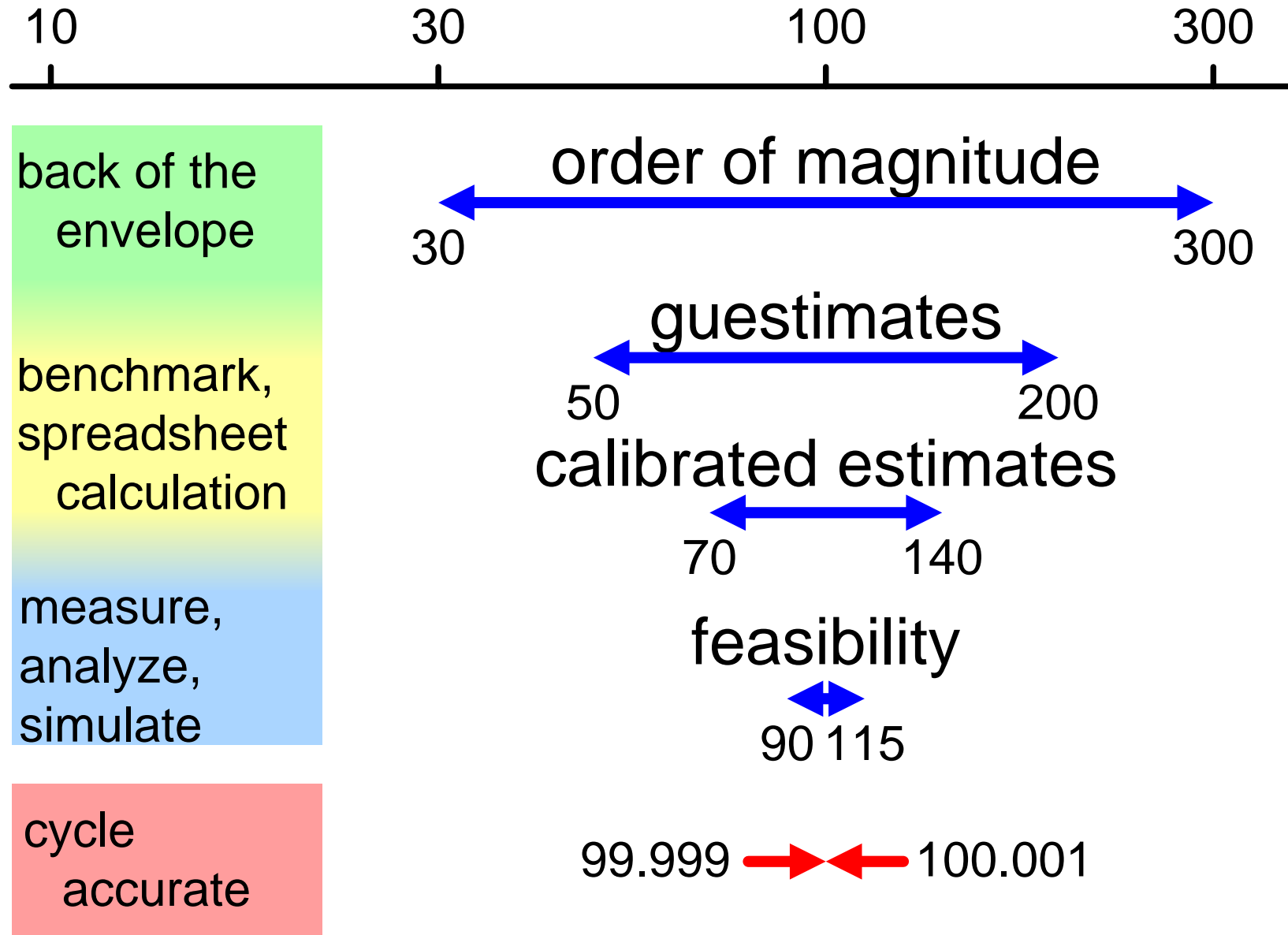
scanning
while
structuring
and judging



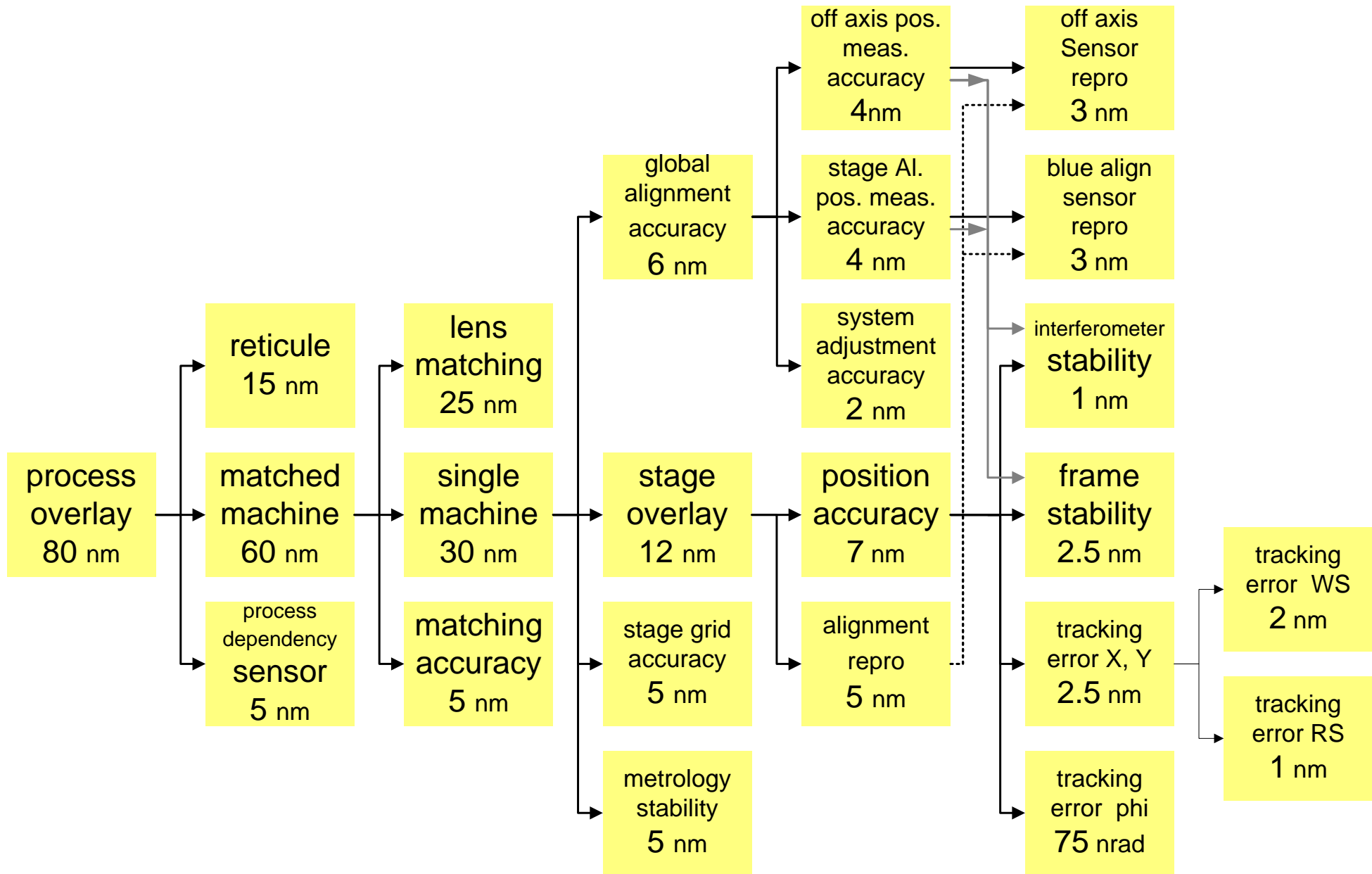
straight for the goal
ignore everything
that is not contributing
directly to the goal



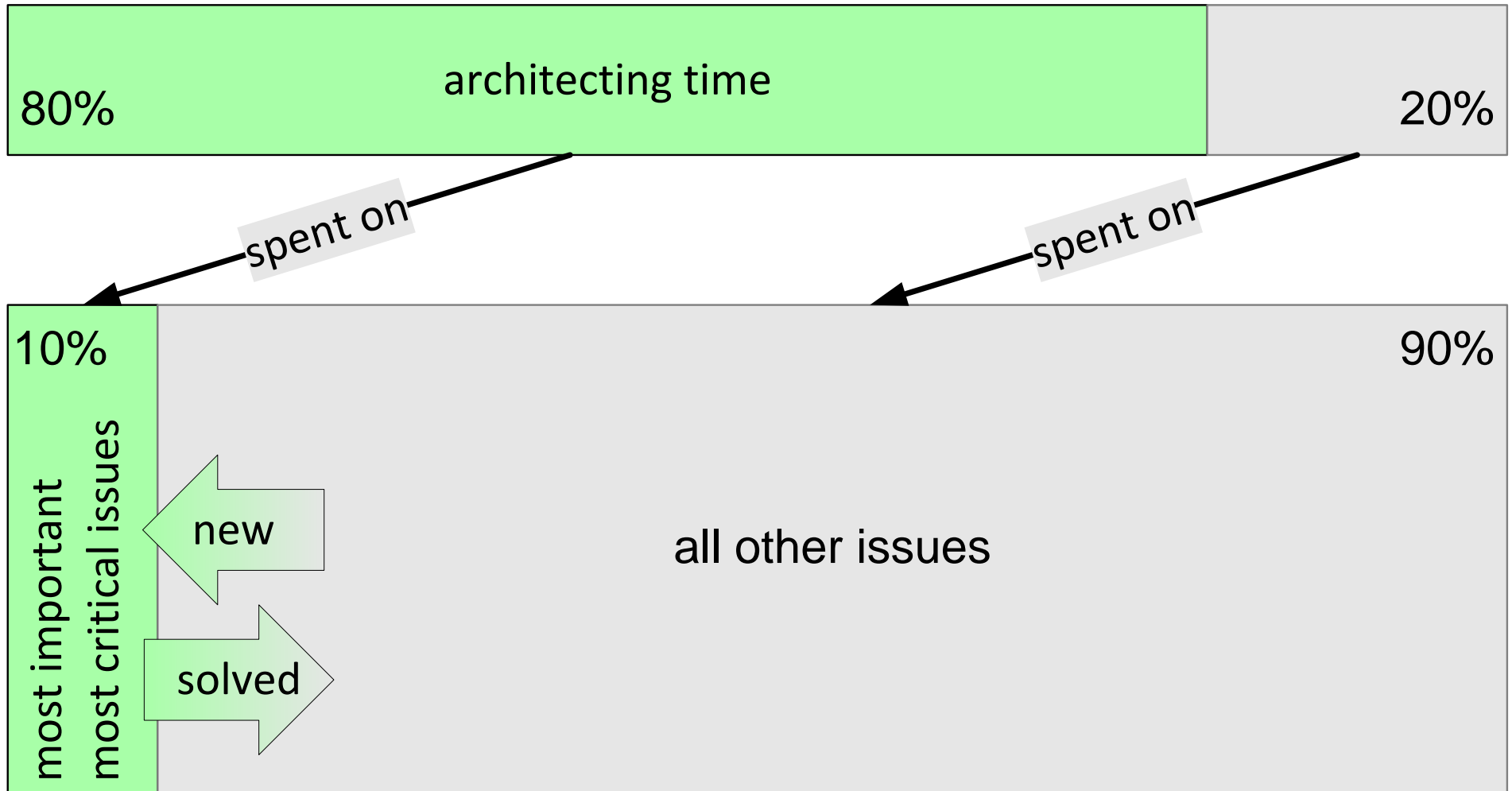
Successive quantification refinement



Quantified understanding of waferstepper overlay



Architect focus on important issues



A **model** is
a **simplified** representation of
part of the **real world** used for:

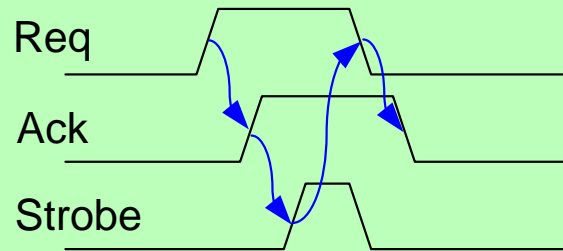
communication, documentation
analysis, simulation,
decision making, verification

Some examples of models

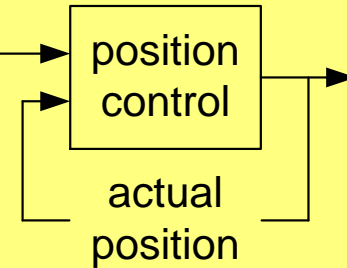
formal analytical model

$$t_{\text{processing}} = t_{\text{overhead}} + n_{\text{rows}} * t_{\text{row}} + n_{\text{row}} * n_{\text{col}} * t_{\text{pixel}}$$

synchronization model



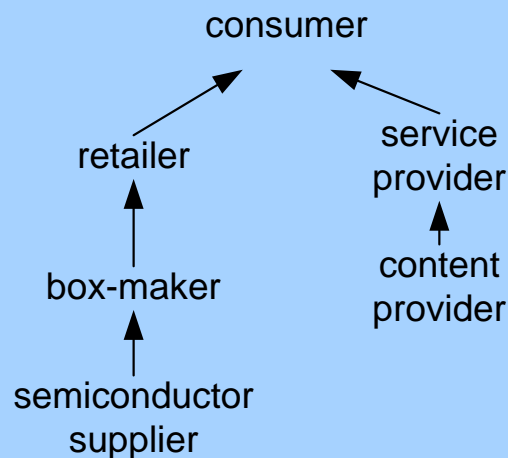
required
position
(time)



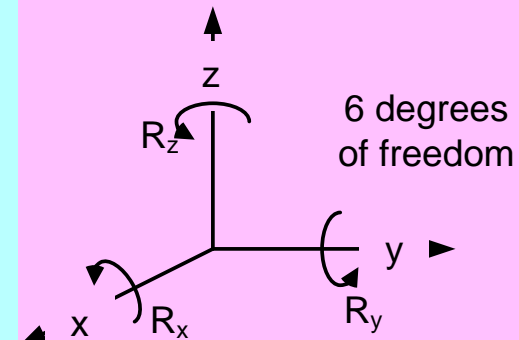
feedback frequency:
4 kHz (0.25 msec)

feedback model

value chain model

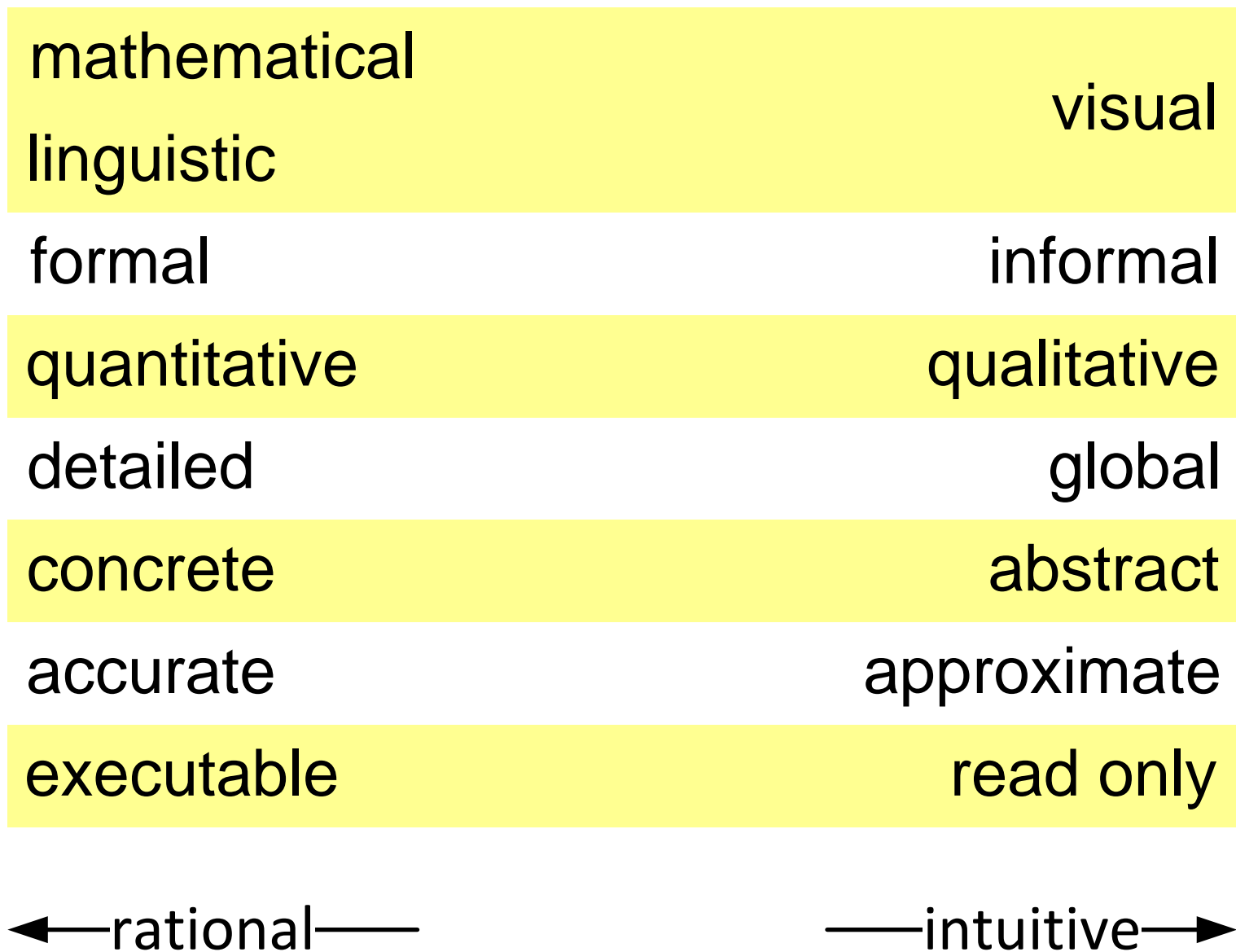


mockup



model of coordinate system

Types of models



Why

Who

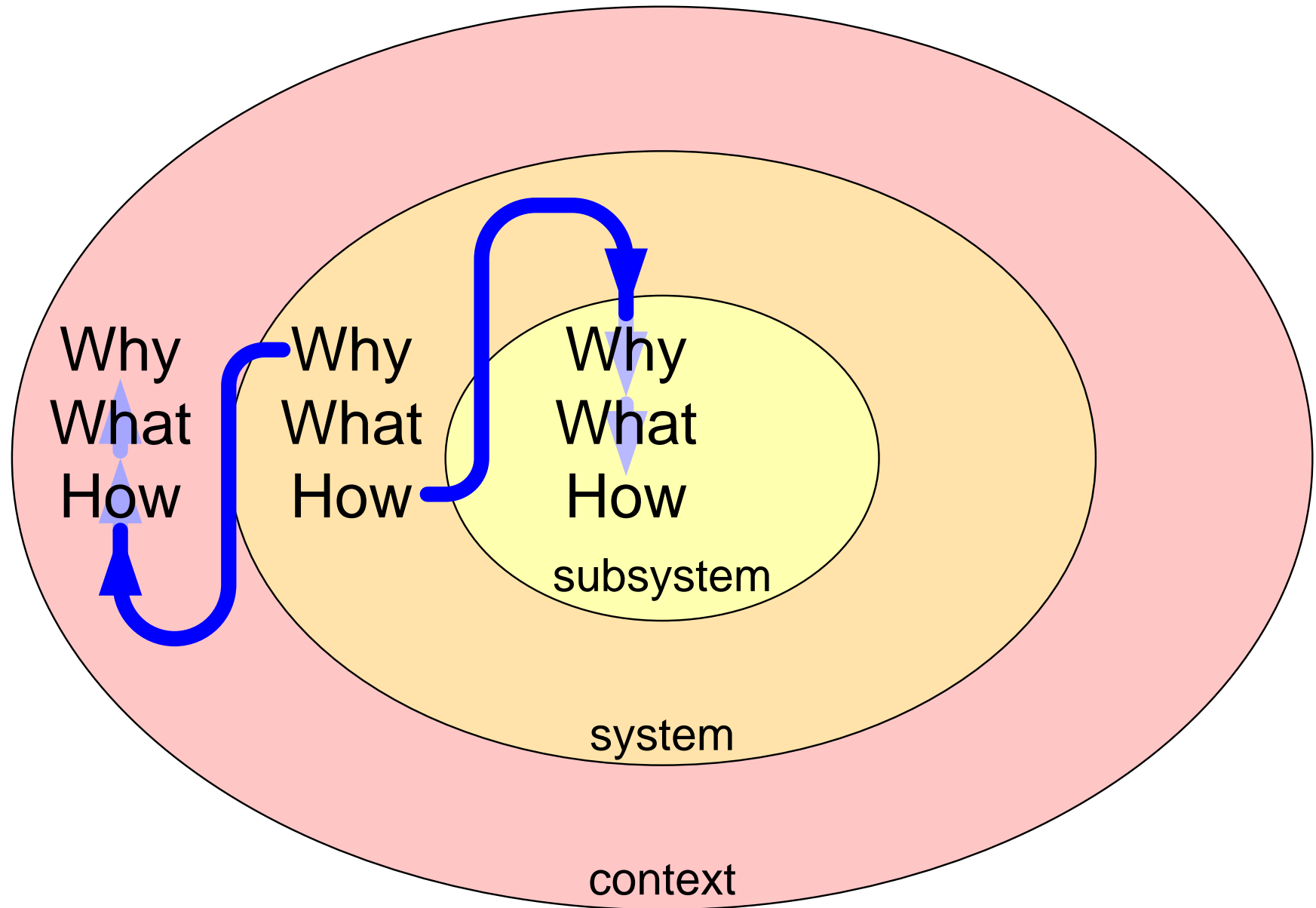
What

When

How

Where

Why broadens scope, How opens details



Multiple propositions

throughput	20 p/m	high-performance sensor	350 ns
cost	5 k\$	high-speed moves	9 m/s
safety		additional pipelining	

low cost and performance 1

throughput	20 p/m	high-performance sensor	300 ns
cost	5 k\$	high-speed moves	10 m/s
safety			

low cost and performance 2

throughput	25 p/m	highperformance sensor	200 ns
cost	7 k\$	high-speed moves	12 m/s
safety		additional collision detector	

high cost and performance

Recursive and concurrent application of flow

