

Architecting System Performance; Managing System Performance

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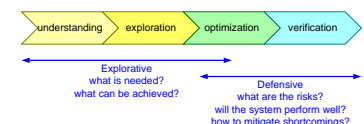
Abstract

This presentation presents the ideas behind the course Architecting System Performance. A number of frameworks and mental models show the context of this course and the approach to performance advocated in this course.

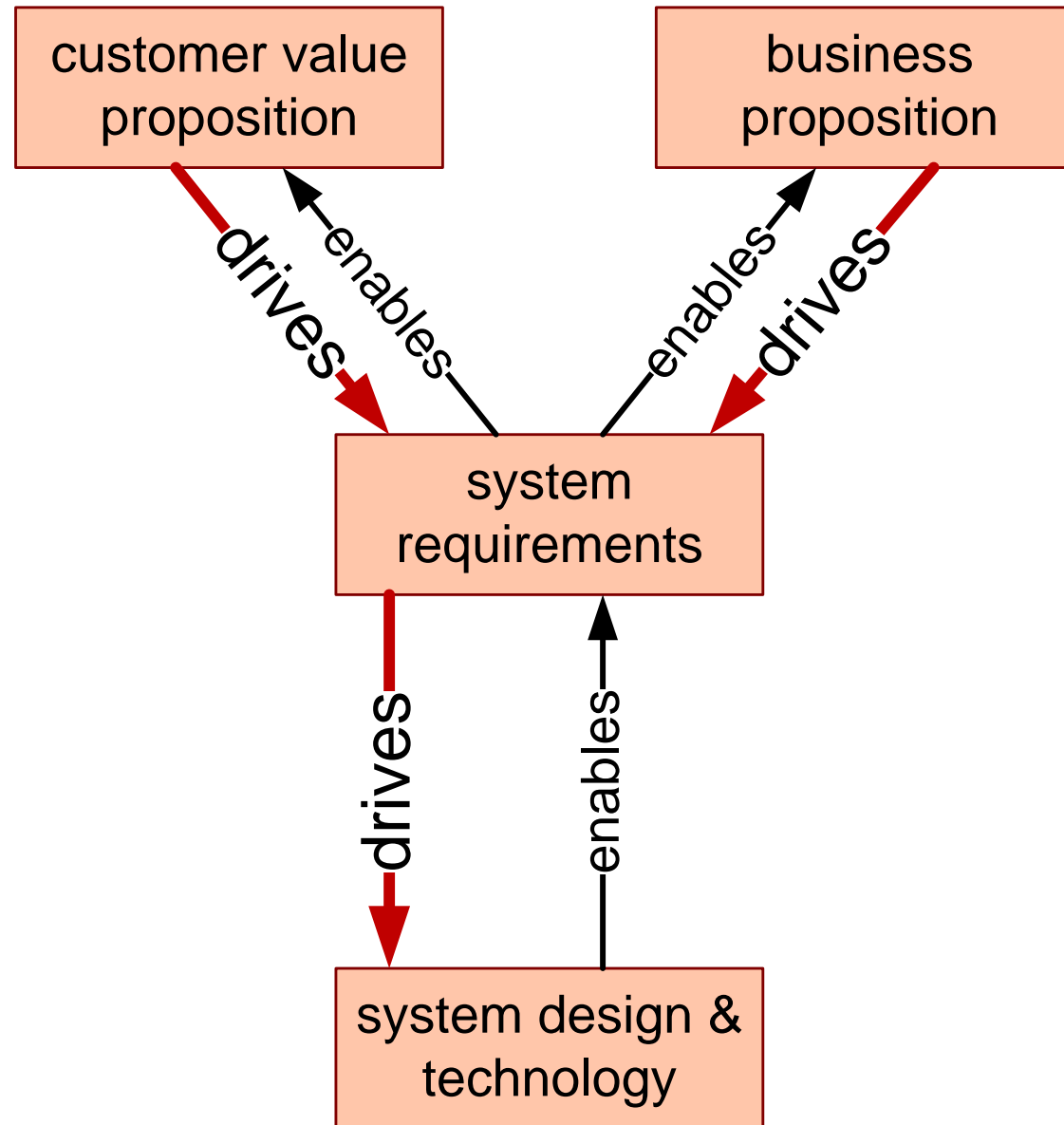
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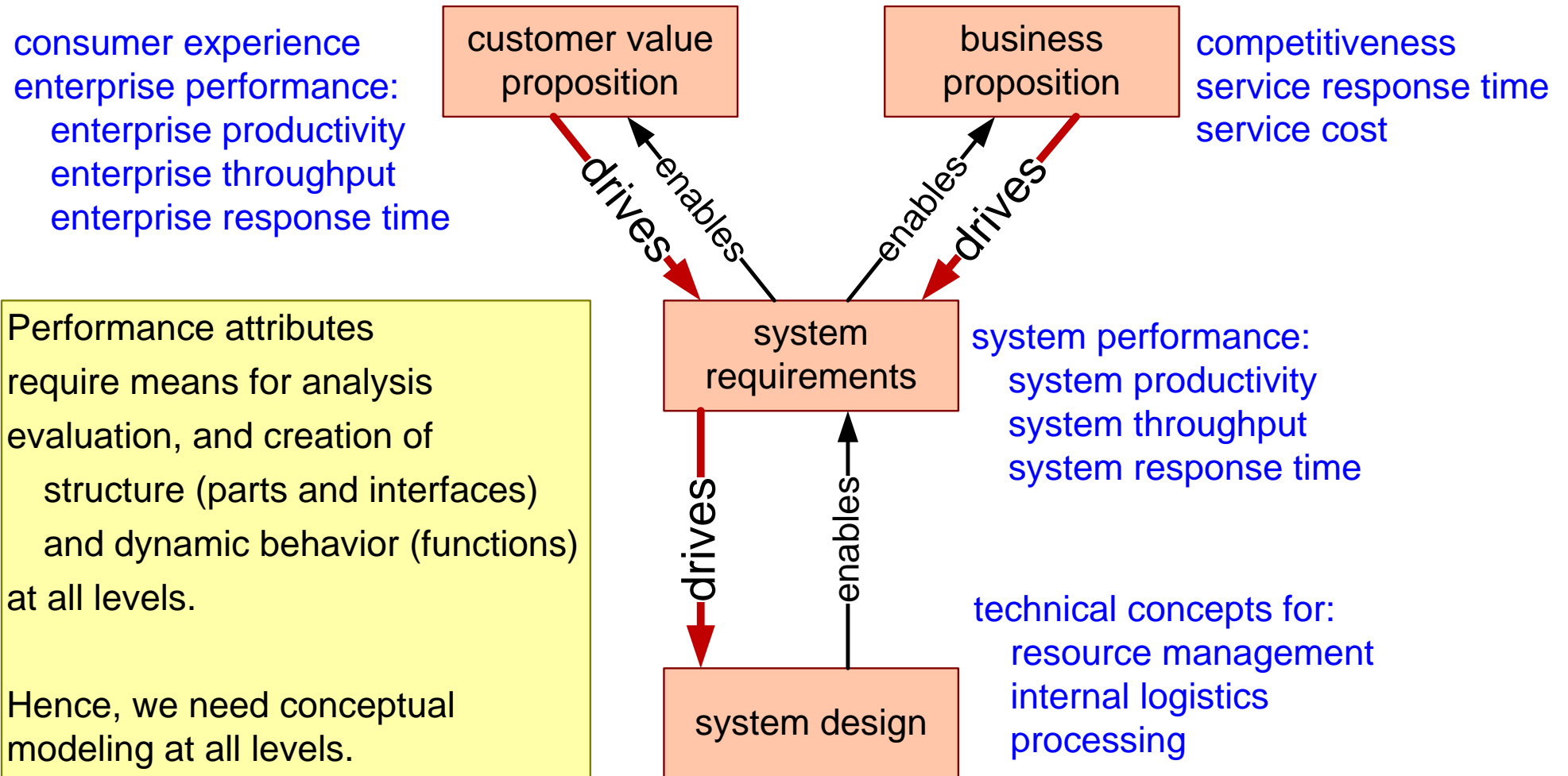
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Architecture Top View



Performance Playing Field

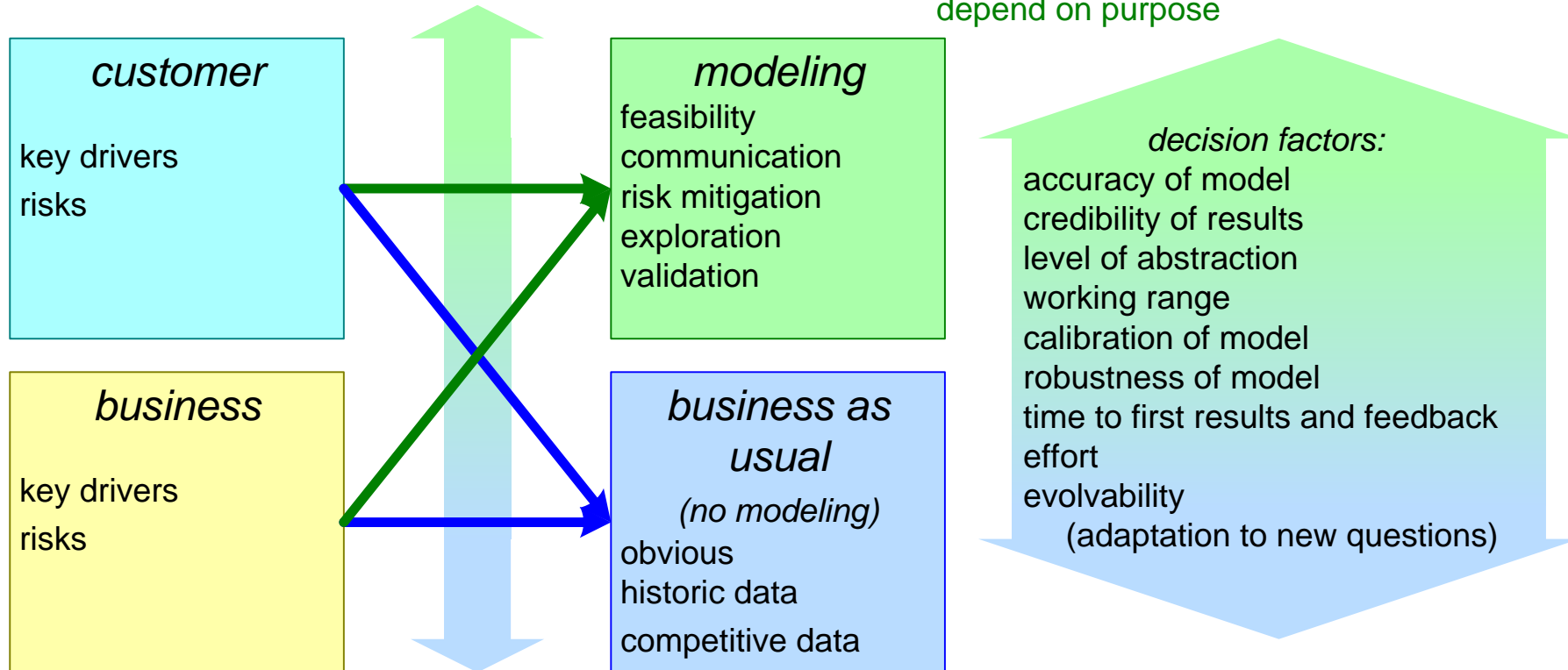


What and Why to Model

how well is the customer served?
 how credible becomes the solution?
 how much are time and effort reduced?
 how much is the risk reduced?
 how much is the solution improved?

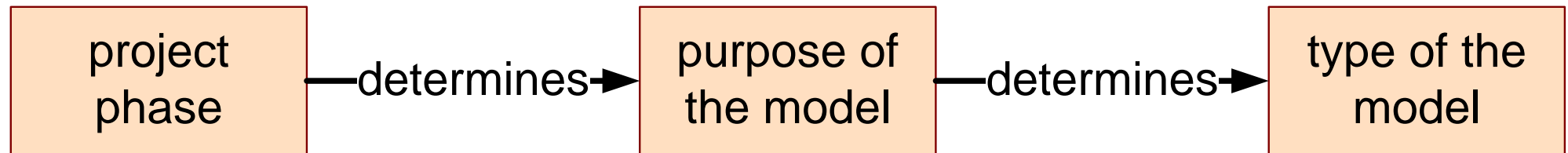
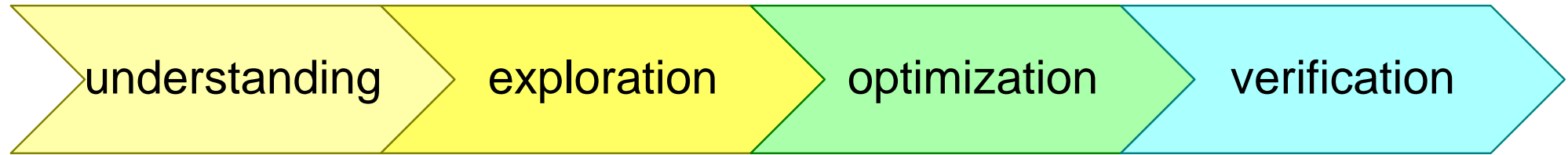
purpose and type of model
 depend on project life cycle

type of model and views
 depend on purpose

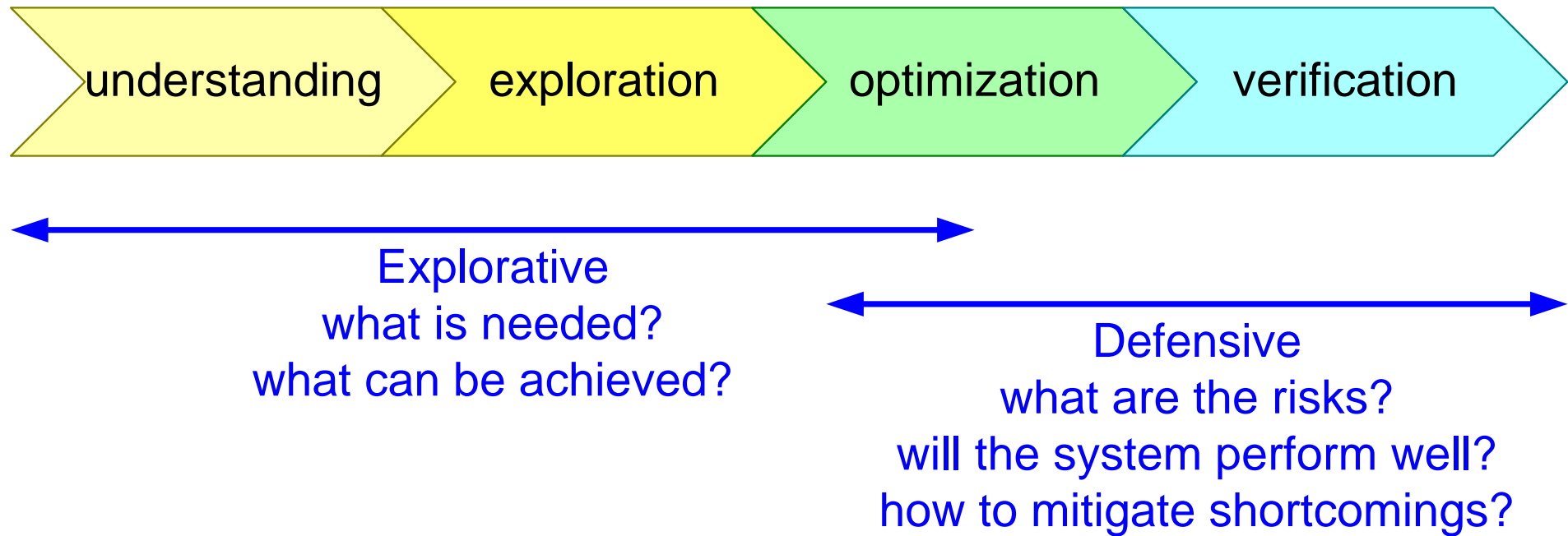


how much effort is needed to create model(s)?
 how much effort is needed to use and maintain model(s)?
 how much time is needed to obtain useful result?

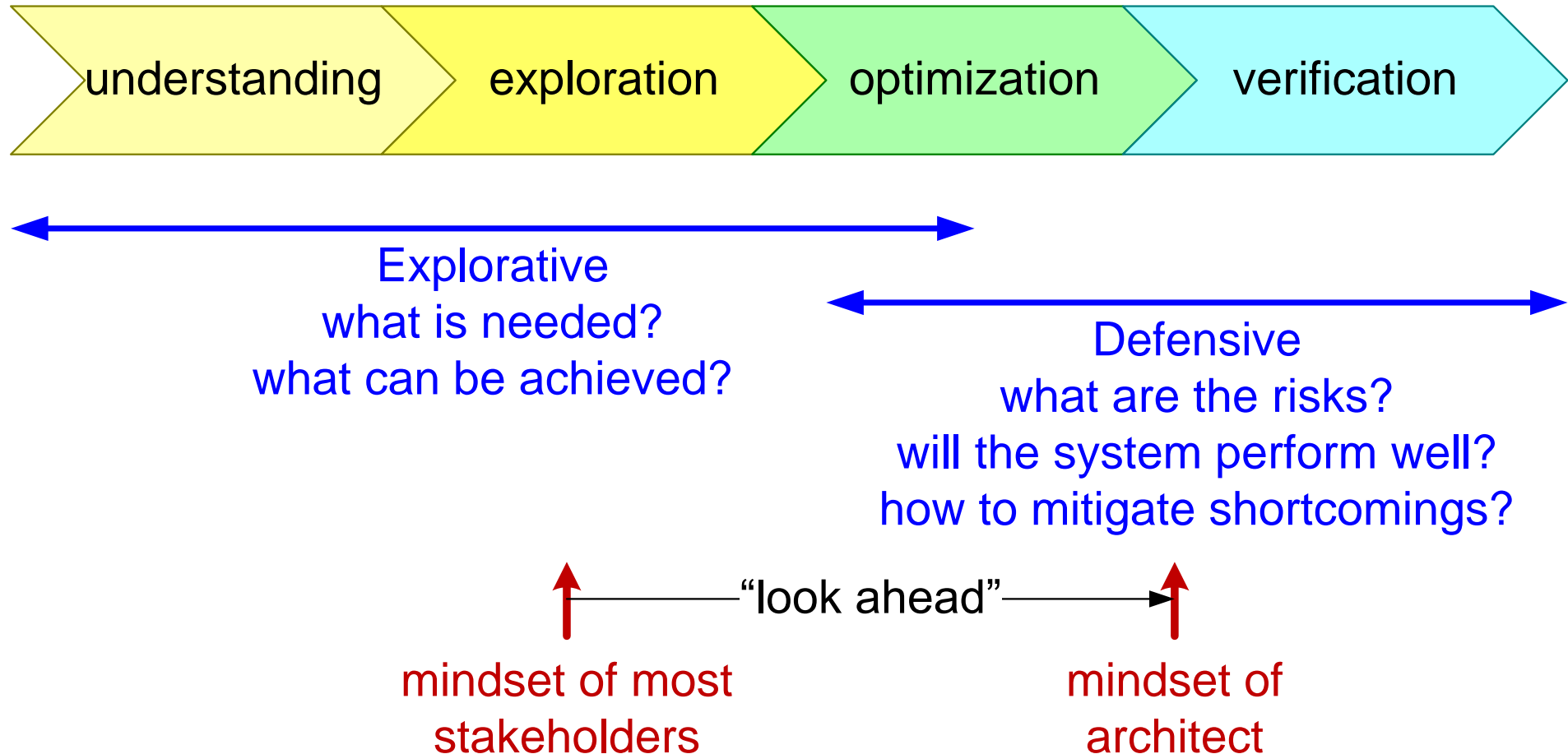
Modeling Evolves over Time



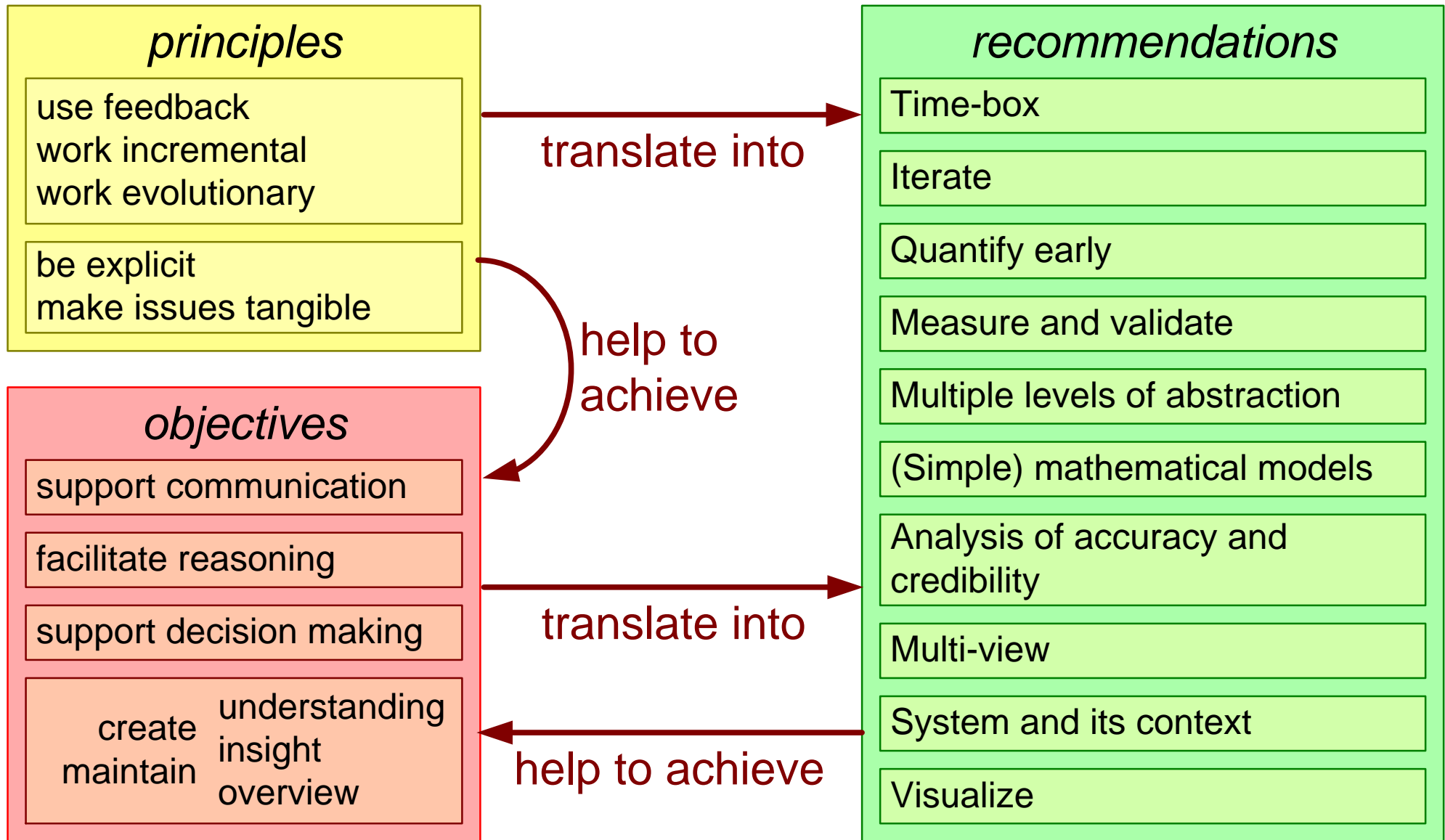
The Modeler's Mindset Evolves too



The Architect Can Be "Out of Phase"



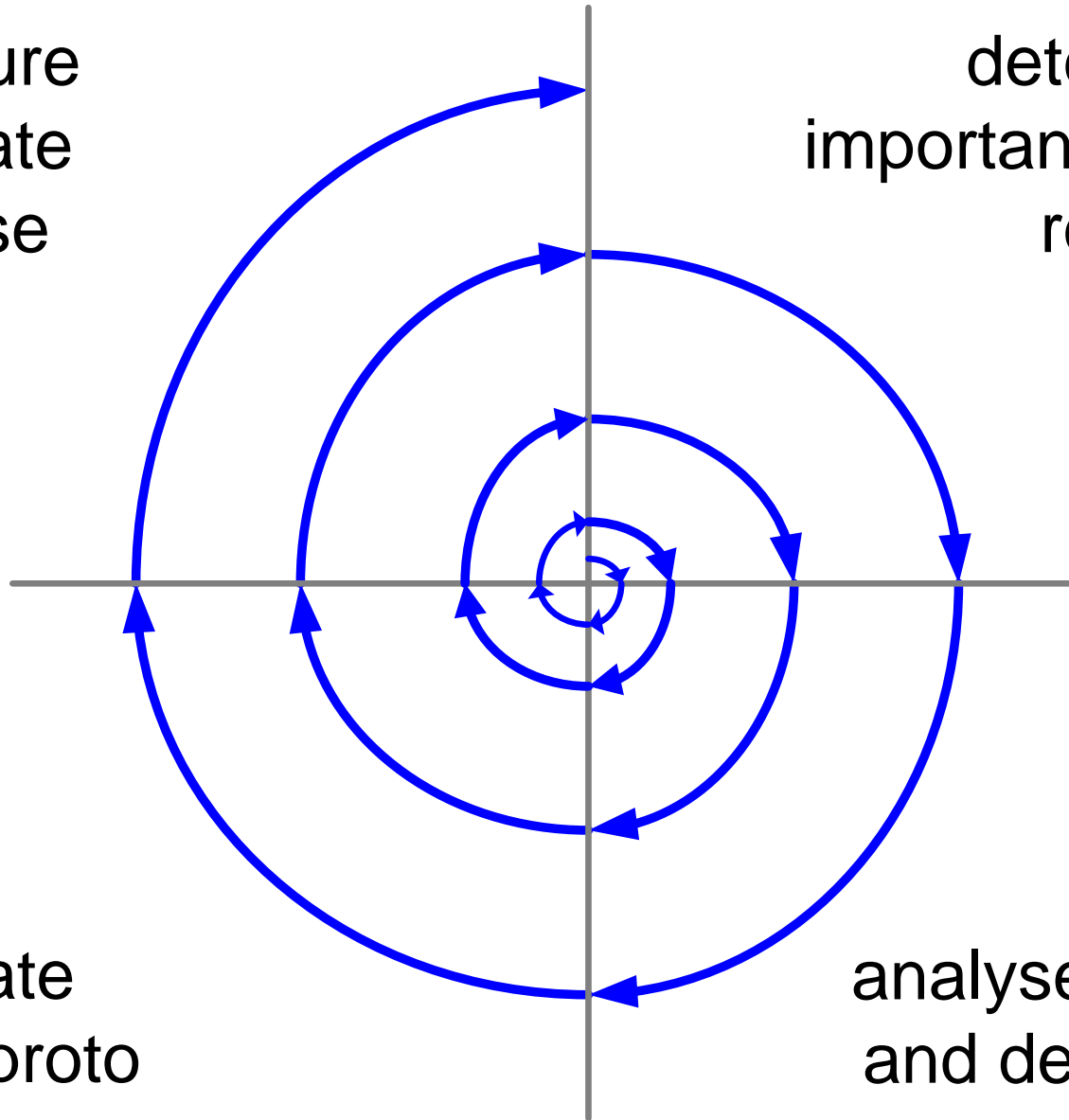
10 Fundamental Recommendations



Iterative Performance Management during Development

measure
evaluate
analyse

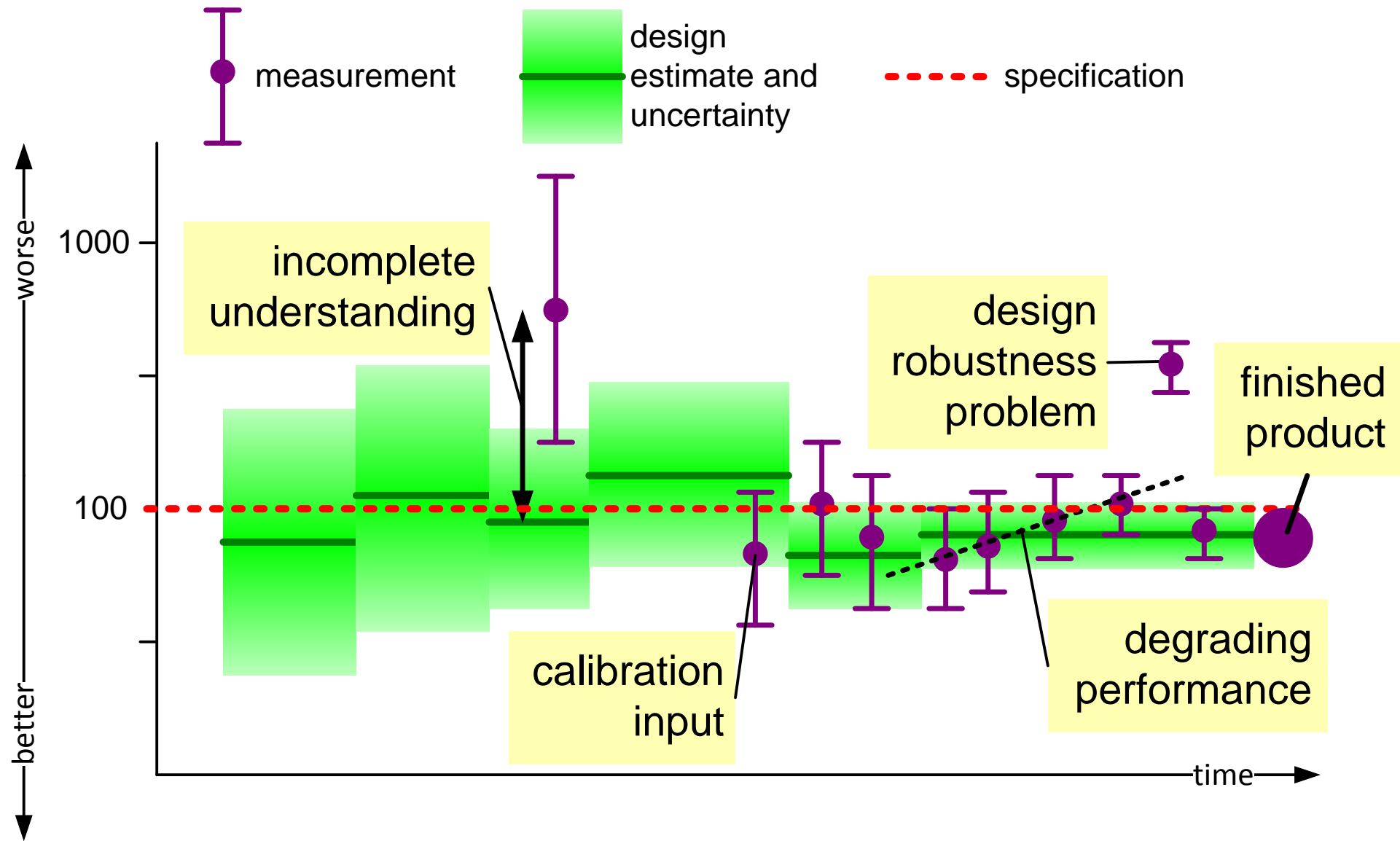
determine most
important and critical
requirements



simulate
build proto

model
analyse constraints
and design options

Managing Performance during Product Development



Quantification Steps

