

# 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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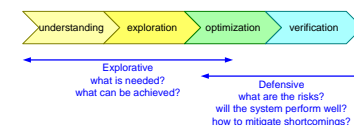
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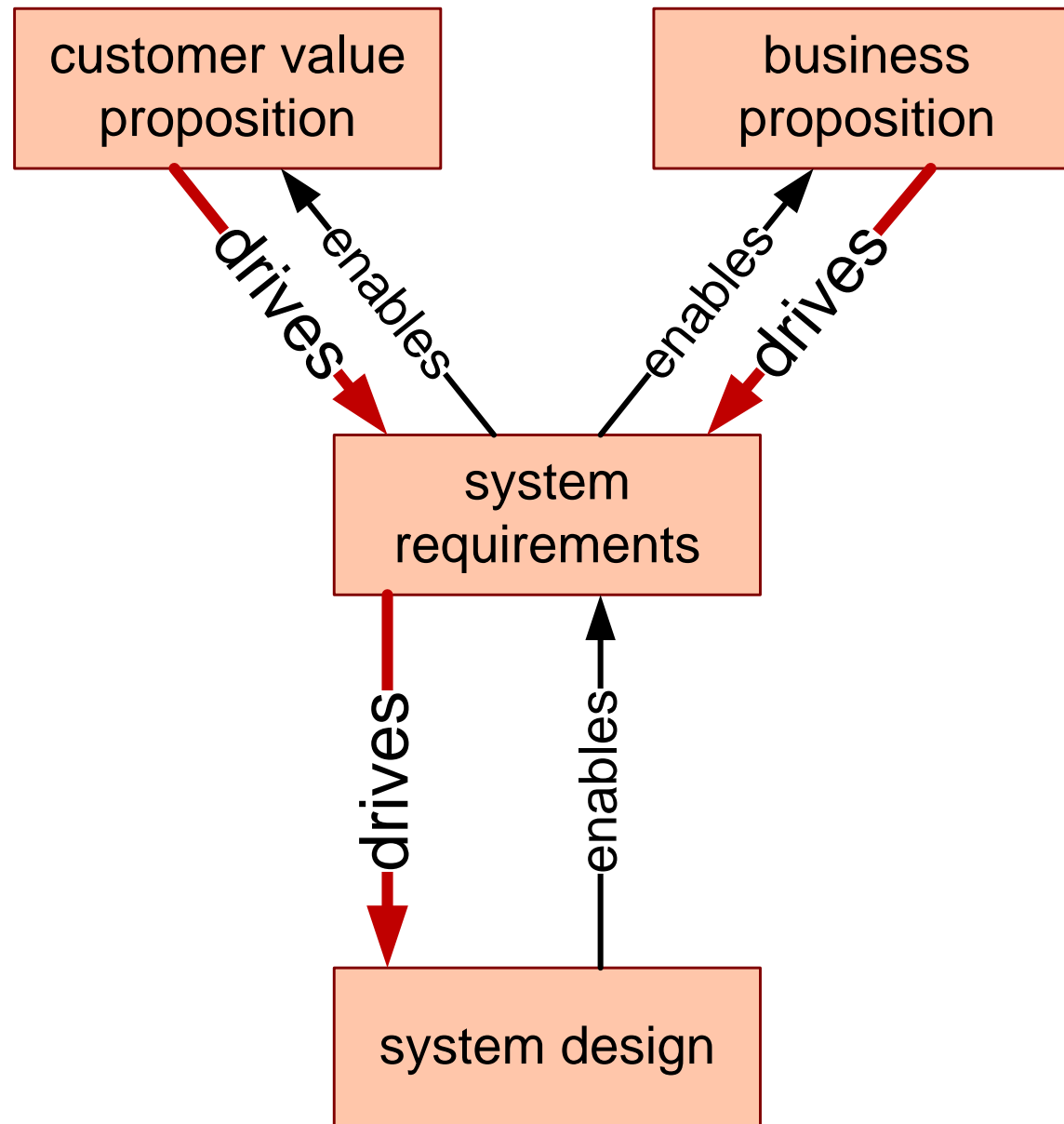
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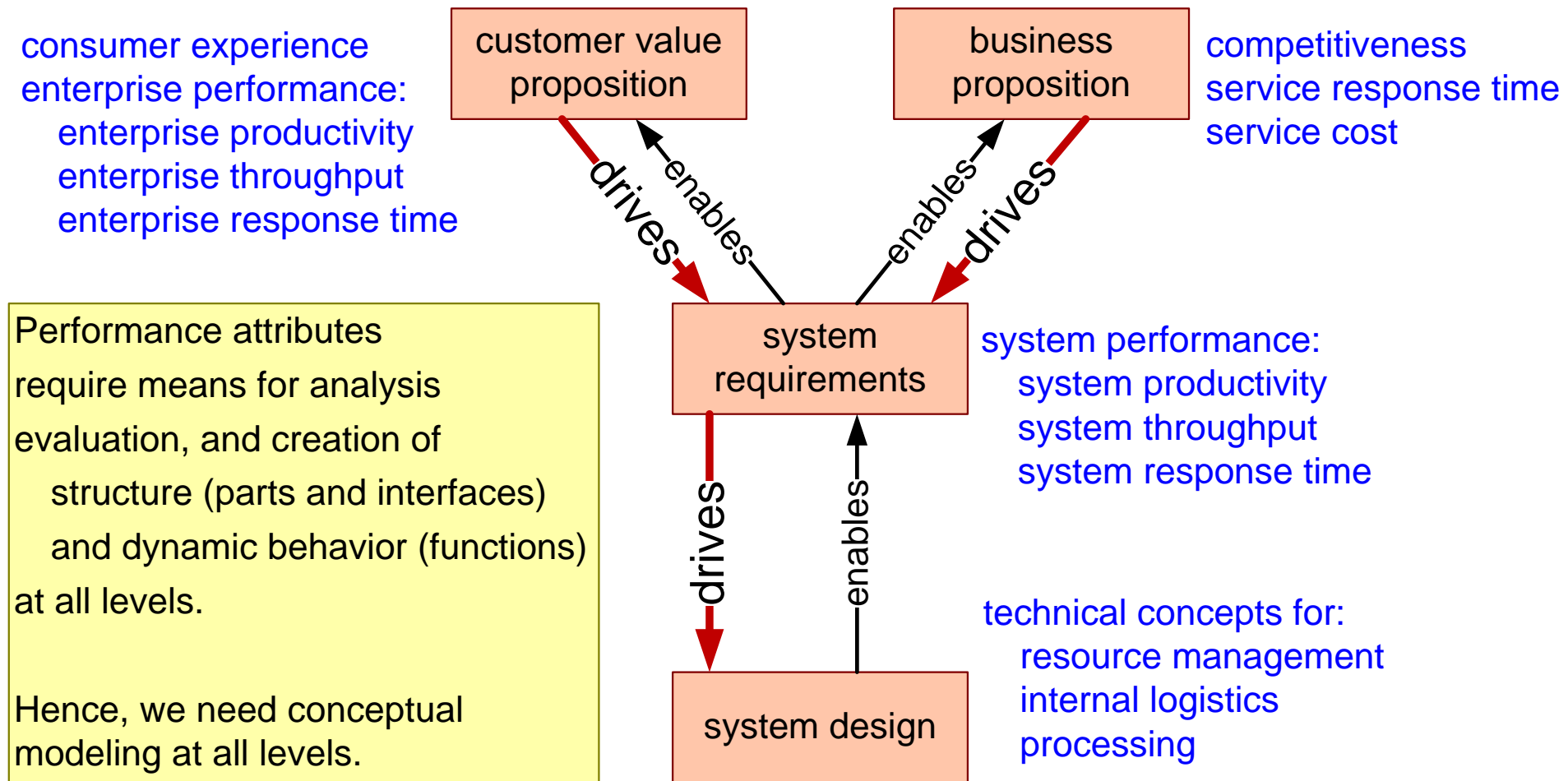
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# Architecture Top View



# Performance Playing Field

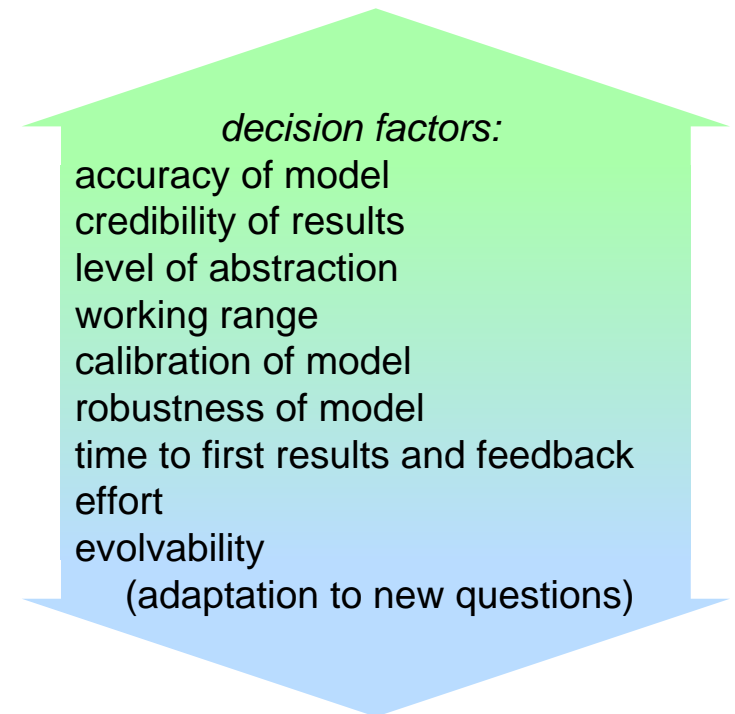
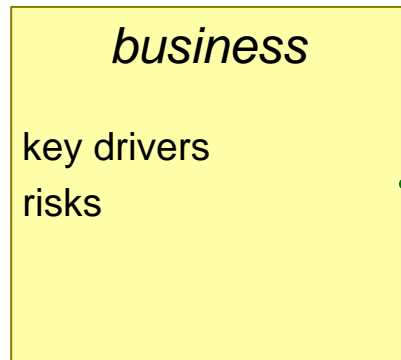
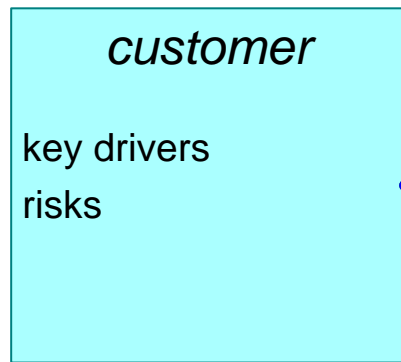


# What and Why to Model

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?

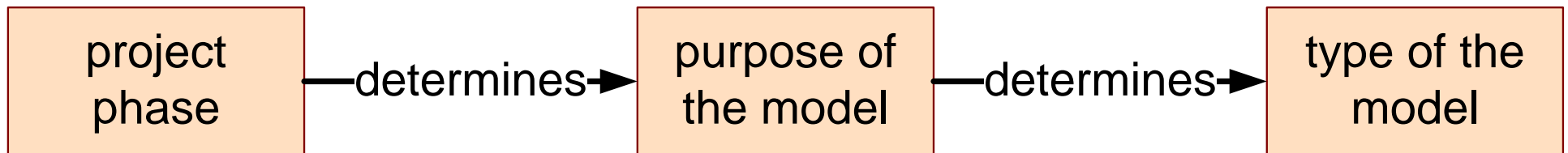
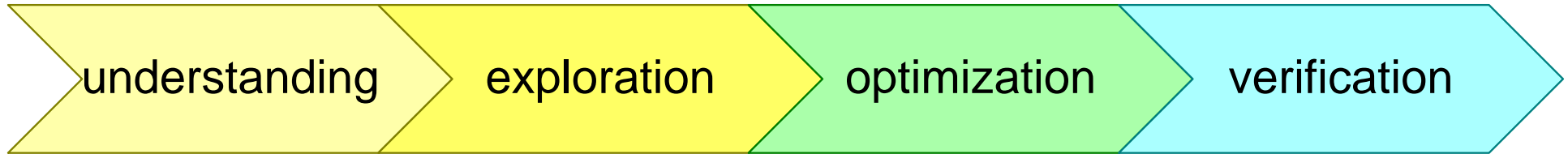
purpose and type of model  
 depend on project life cycle

type of model and views  
 depend on purpose

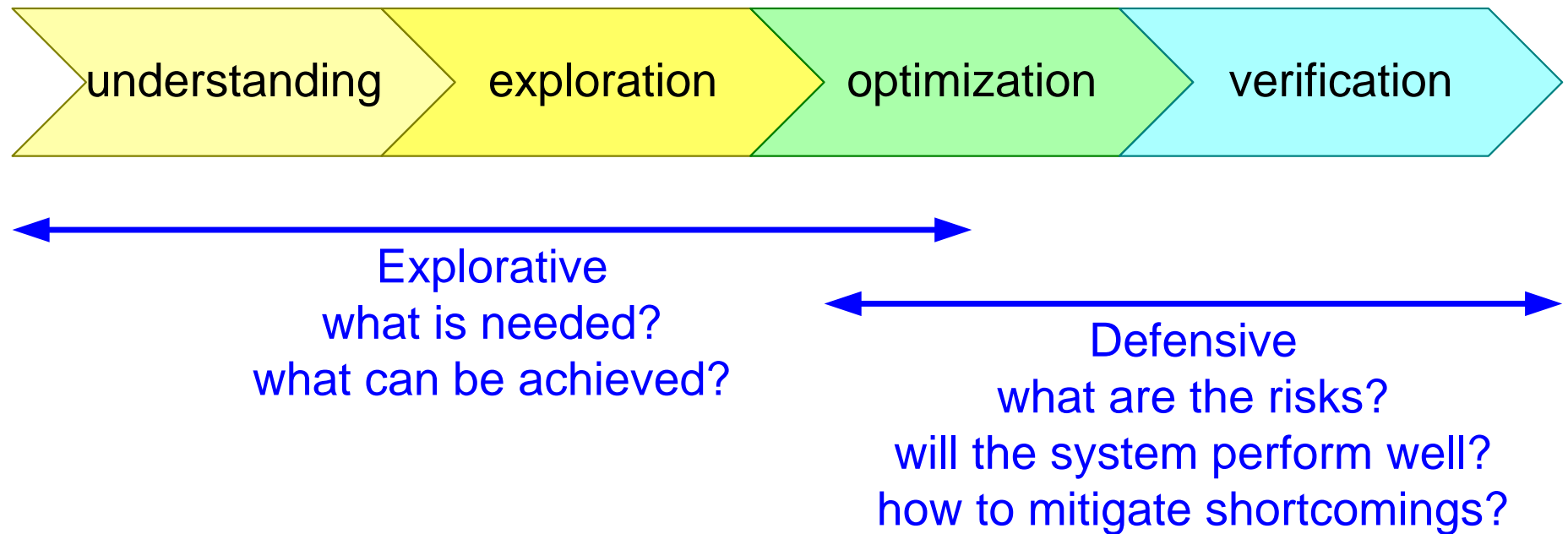


how much effort is needed to create model(s)?  
 how much effort is needed to use and maintain model(s)?  
 how much time is needed to obtain useful result?

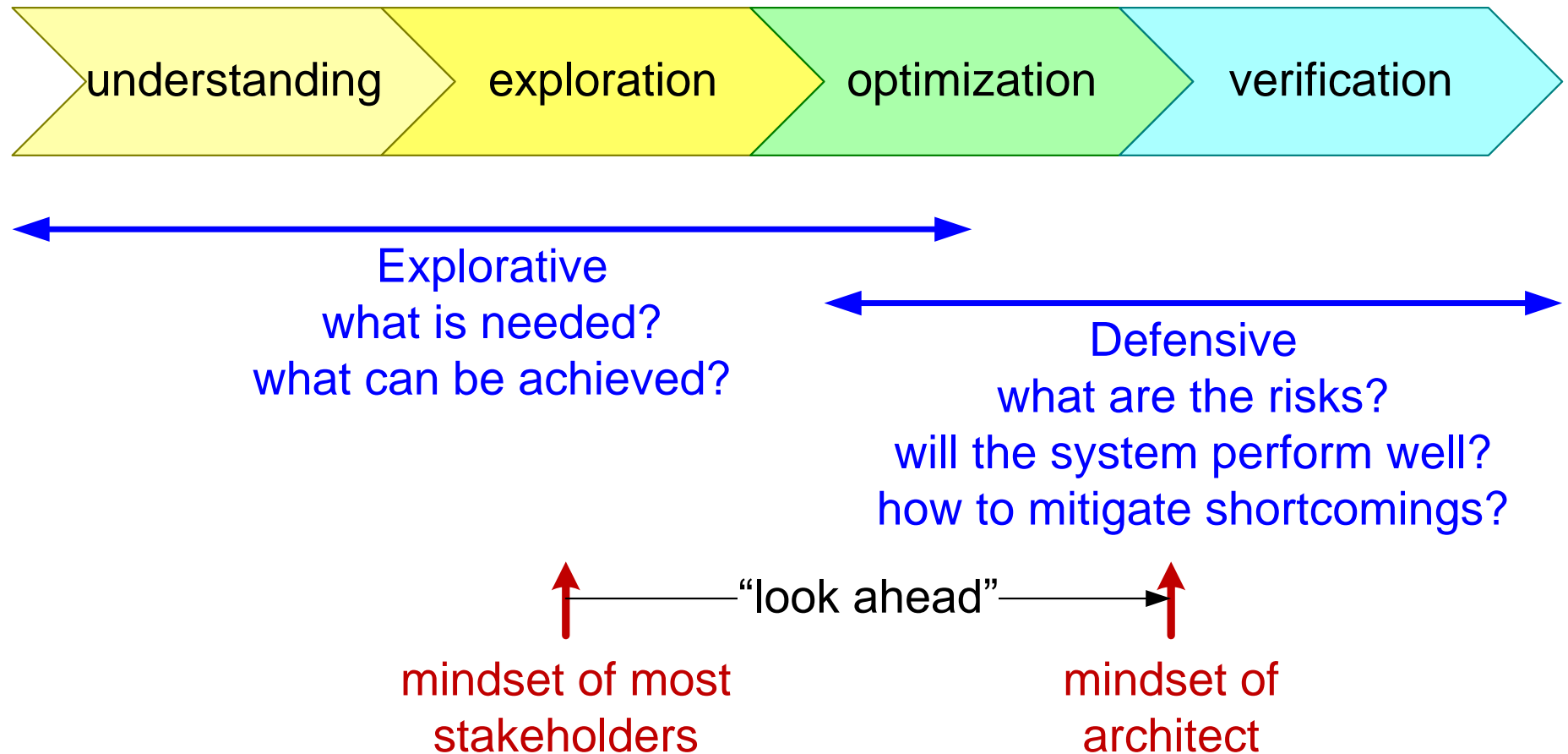
# Modeling Evolves over Time



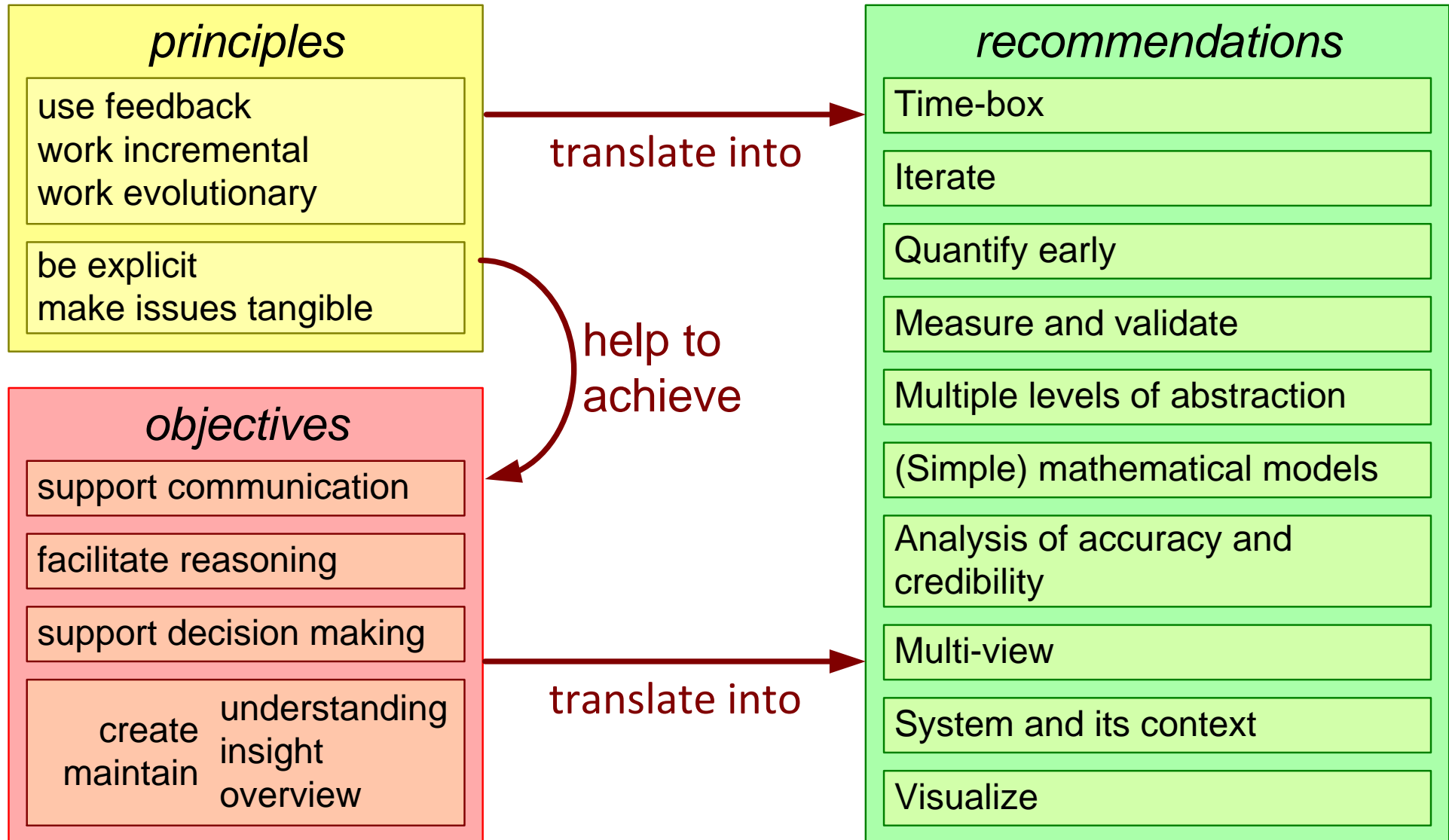
# The Modeler's Mindset Evolves too



# The Architect Can Be "Out of Phase"



# 10 Fundamental Recommendations

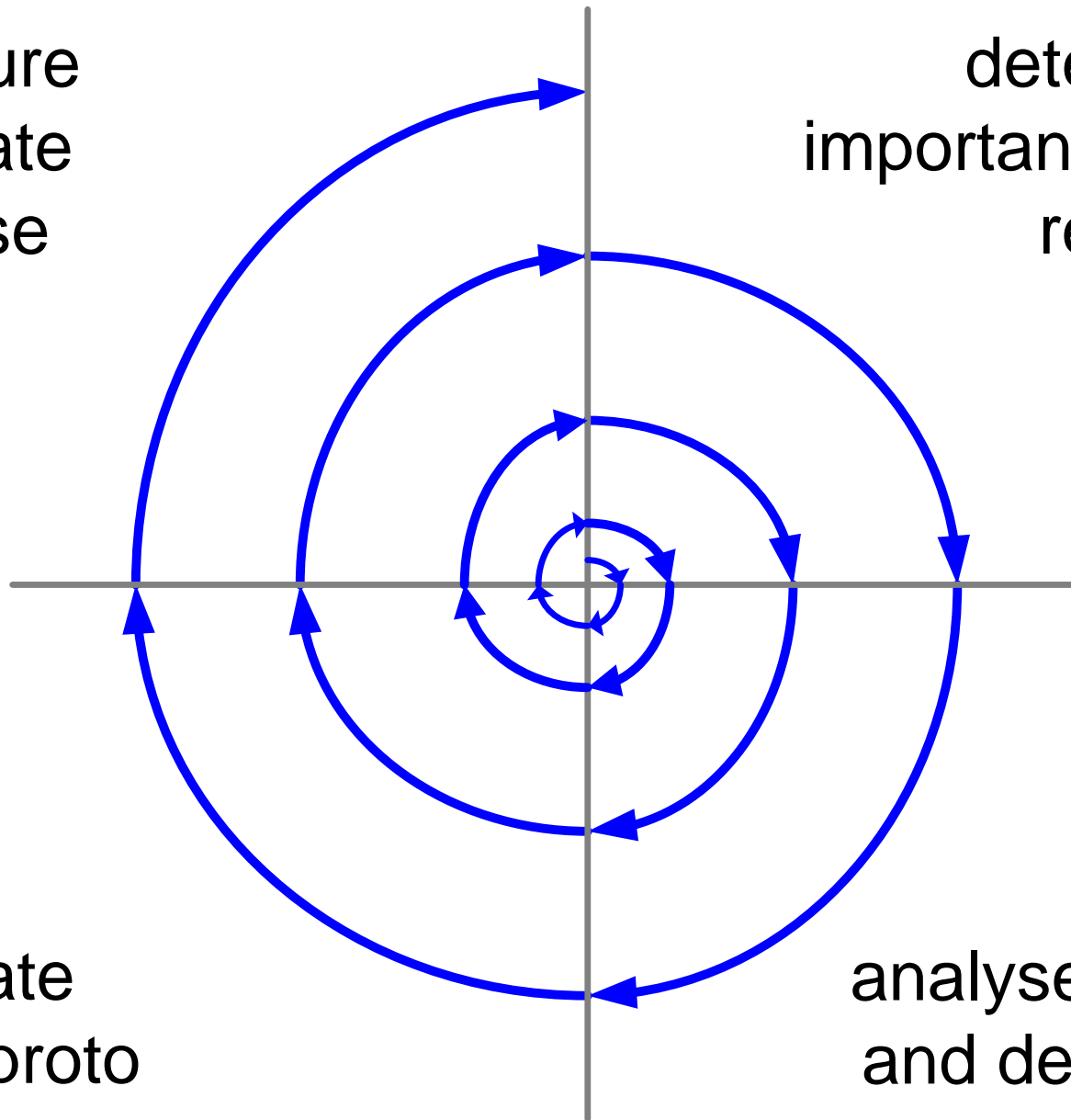




# Iterative Performance Management during Development

measure  
evaluate  
analyse

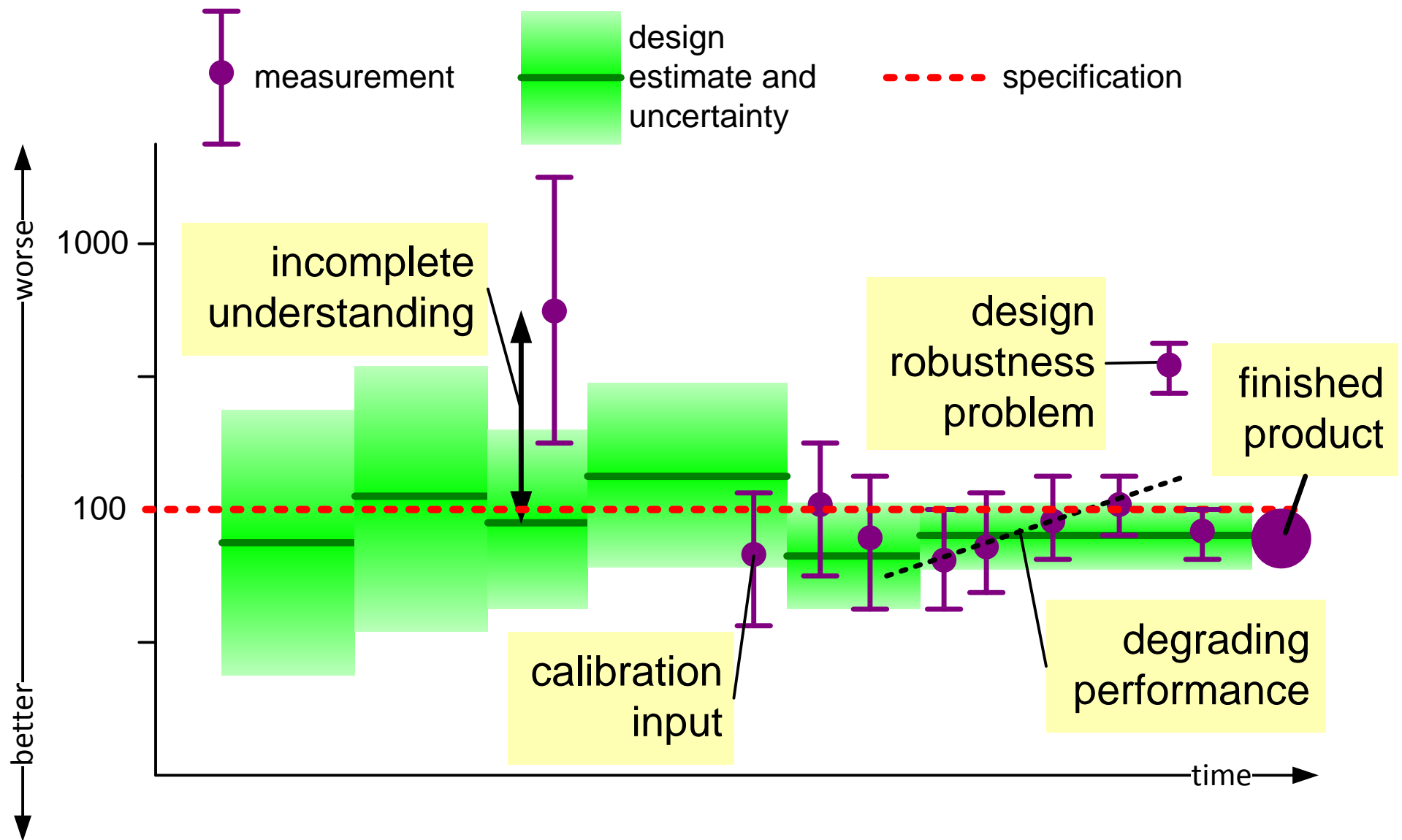
determine most  
important and critical  
requirements



simulate  
build proto

model  
analyse constraints  
and design options

# Managing Performance during Product Development



# Quantification Steps

