

Scenario How To

by *Gerrit Muller* Embedded Systems Institute

e-mail: `gerrit.muller@embeddedsystems.nl`

`www.gaudisite.nl`

Abstract

Good designers keep multiple alternatives open in parallel. This improves the specification and design quality. Scenarios can be used to cope with these alternatives and as a means for communication with stakeholders.

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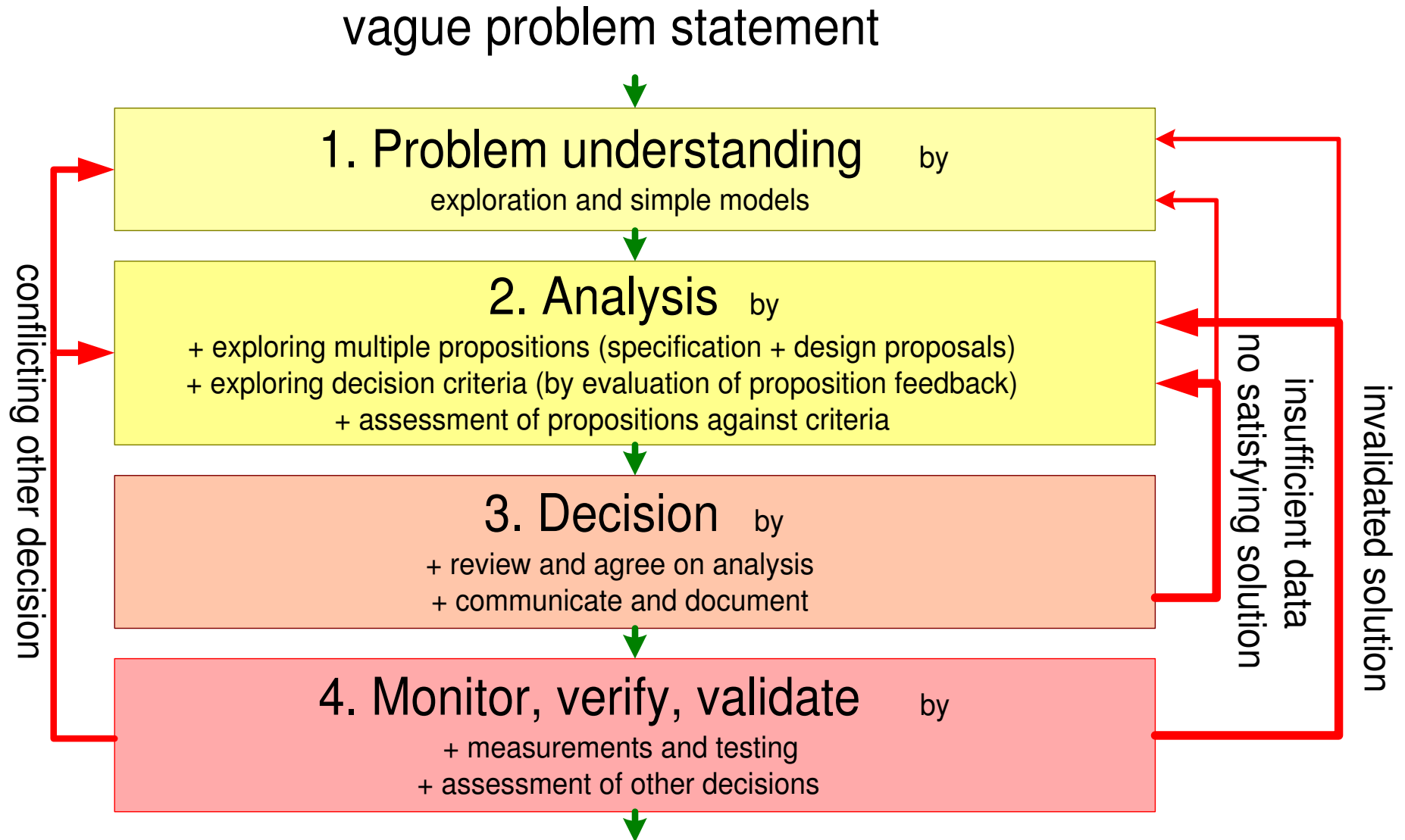
content of this presentation

Decision making

Multiple propositions

Scenarios

Flow from problem to solution



Example of 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

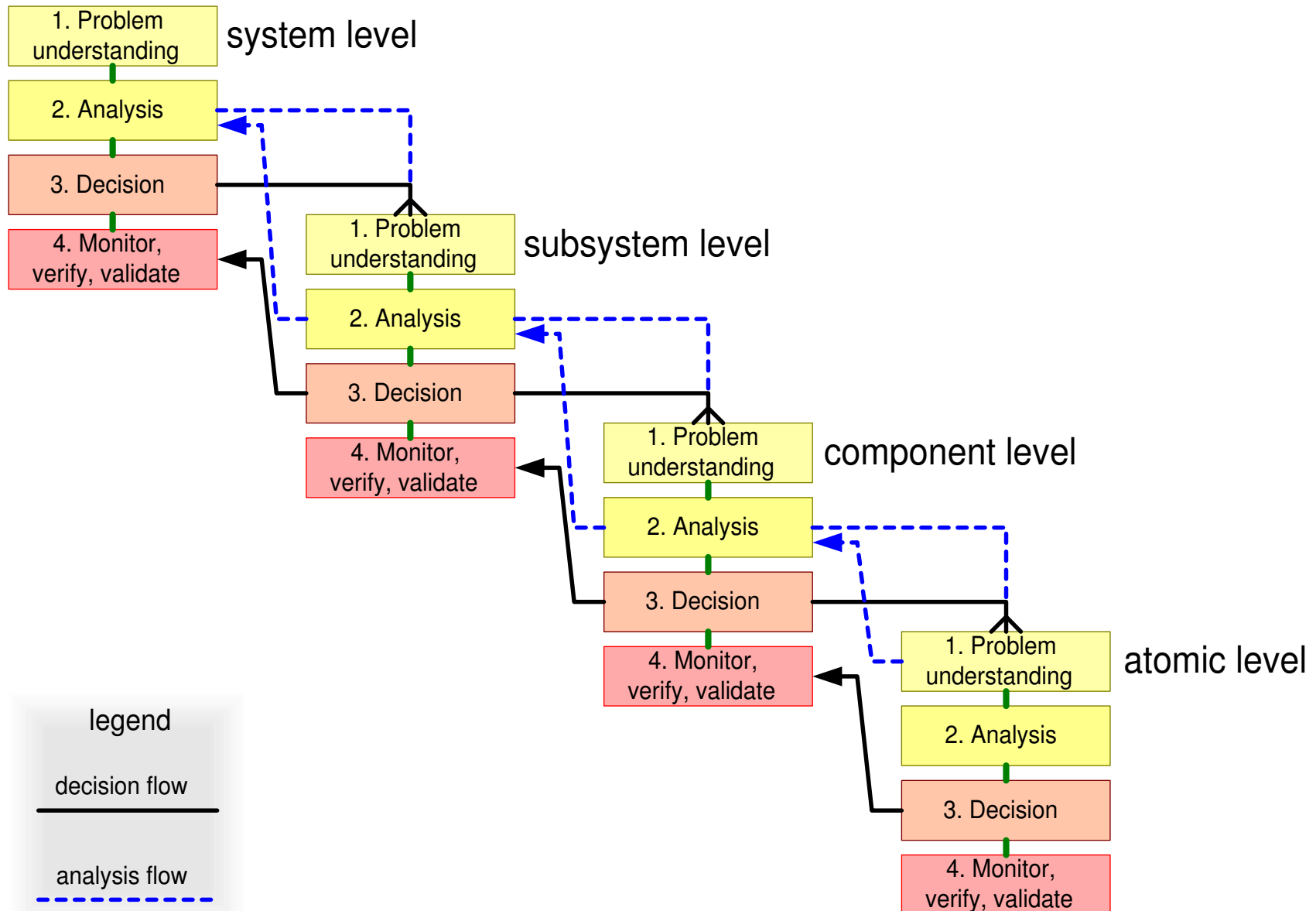
throughput	20 p/m	high-performance sensor	300 ns
cost	5 k\$	high-speed moves	10 m/s
safety			

low cost and performance 2

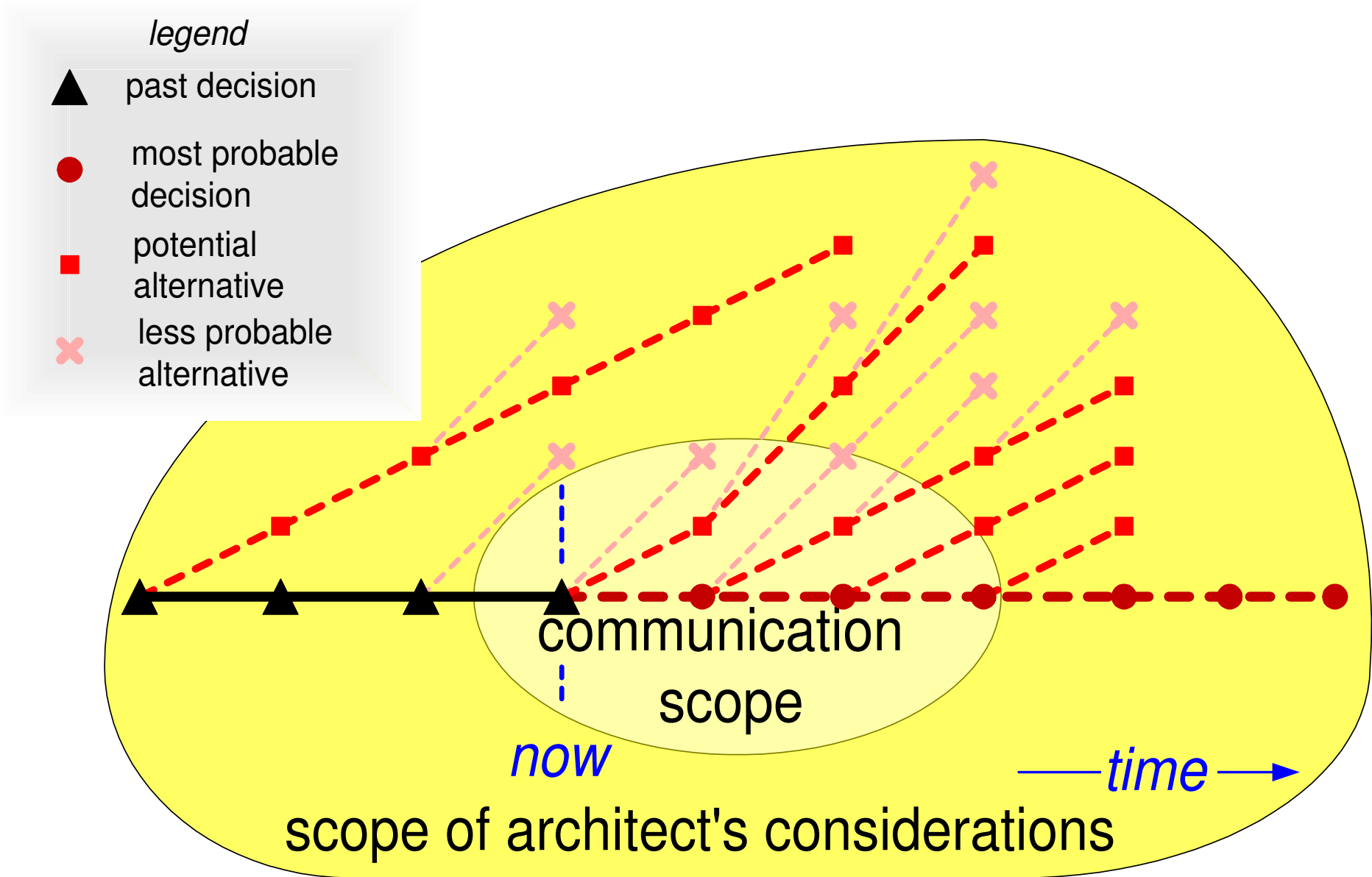
throughput	25 p/m	highperformance sensor	200 ns
cost	7 k\$	high-speed moves	12 m/s
safety		additional collision detector	

high cost and performance

Recursive and concurrent application of flow



Graph of Decisions and Alternatives



Different Types of Decisions



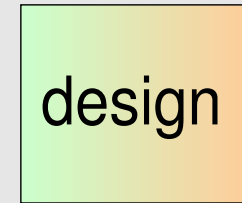
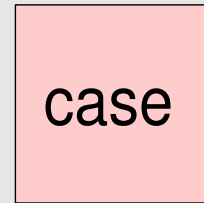
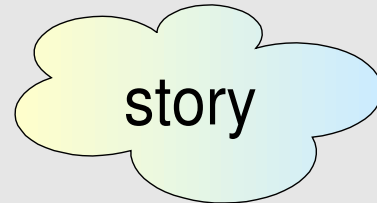
basic
principles

requirements

architecture rules
implementation choices
f.i. technology

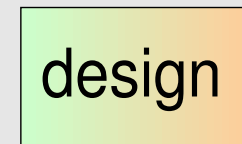
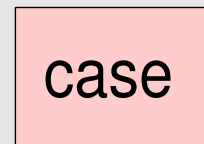
Elements of a Scenario

scenario: <clear title>



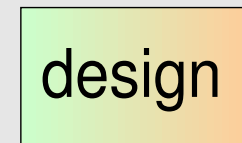
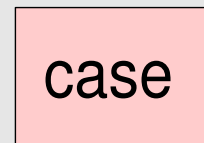
key specification and design decisions

scenario: <clear title>



key specification and design decisions

scenario: <clear title>



key specification and design decisions

Summary of Scenarios

Exploration and analysis require multiple propositions.

Architects continuously work with multiple alternatives.

Scenarios have a clear title, story, use case and design.

Scenarios are differentiated by key specifications and design decisions.