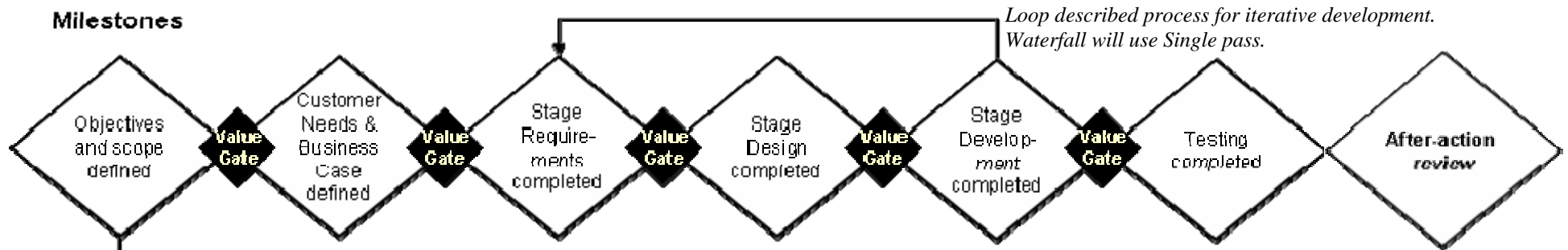
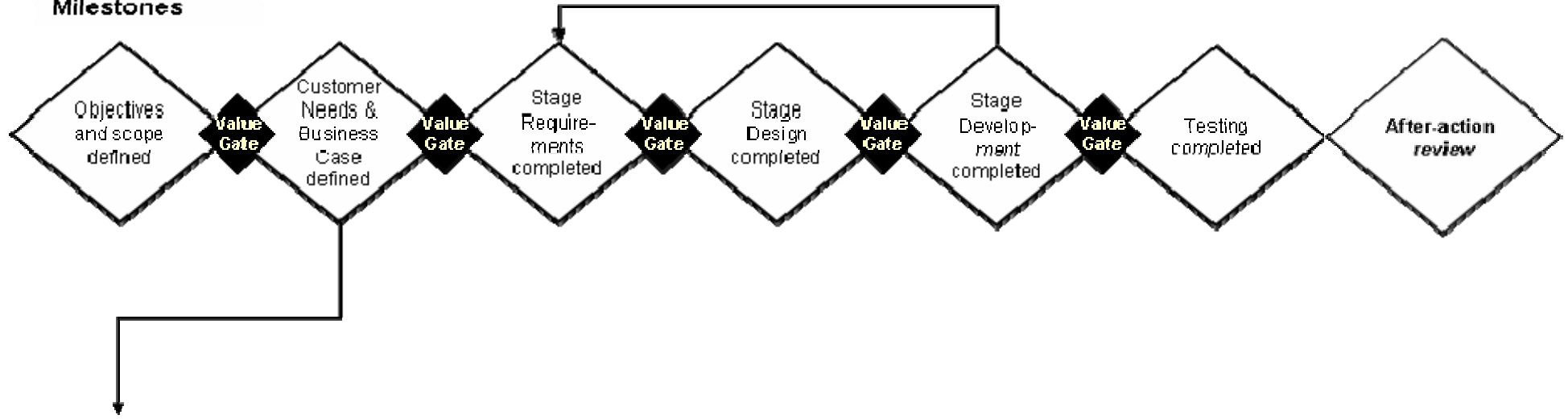


“Hypothetical” Software Development Process



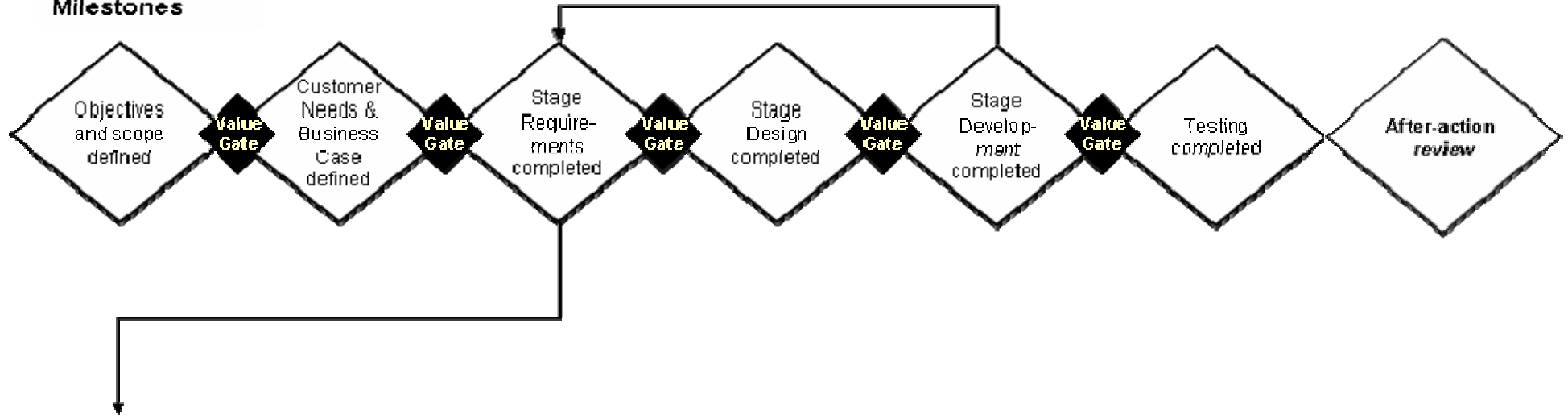
Phase	Need	Tool / Technique	Outputs
Initiation and planning	• Review of Strategic Benefit	Strategic Value Management Workshop	Consensus on SMART project objectives. Clarity about acceptance criteria Defined scope
	• Define Objectives		
	• Identify key deliverables		
	• Establish Business Requirements	Risk management	Business risk register
	• Review interoperability requirement		

Milestones



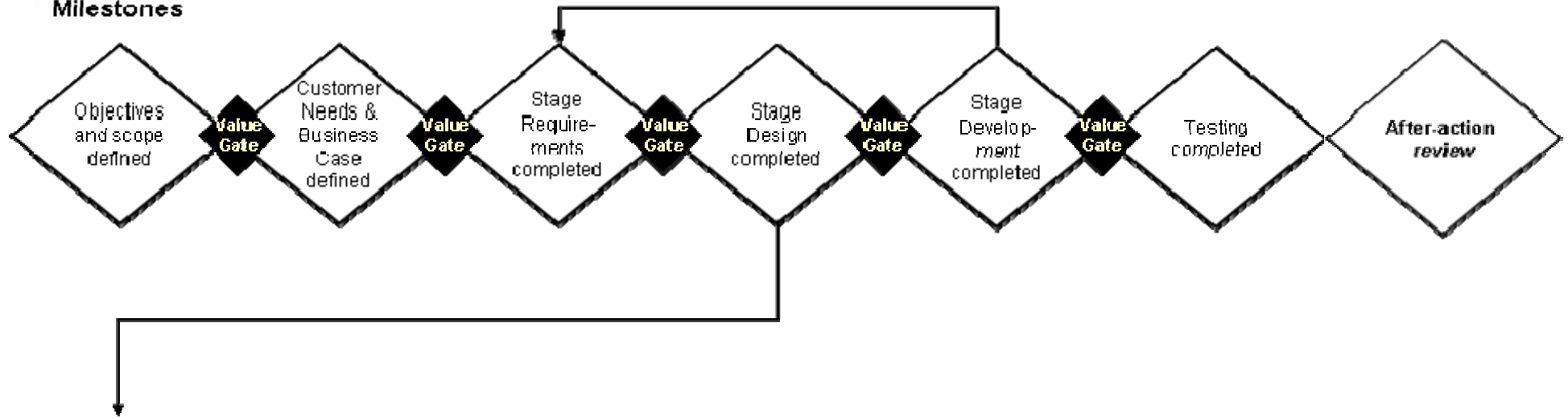
Phase	Need	Tool / Technique	Outputs
Needs analysis and business case	<ul style="list-style-type: none"> Identification and quantification of customer needs 	Customer value Star	Clarity about the attributes of customer need Insight about the relative importance of product attributes to informs decisions about value
	<ul style="list-style-type: none"> Formulation of functions to satisfy needs 	Function Analysis	Functional hierarchy Functionality aligned with key customer requirements and priorities.
	<ul style="list-style-type: none"> Estimation of cost to deliver 	Cost to function analysis	Identified areas where value can be improved or cost reduced without reducing value
	<ul style="list-style-type: none"> Cost/benefit analysis and business case 		
	<ul style="list-style-type: none"> Business risk analysis 	Joint risk and value workshop	Explicit links between opportunity and risk

Milestones



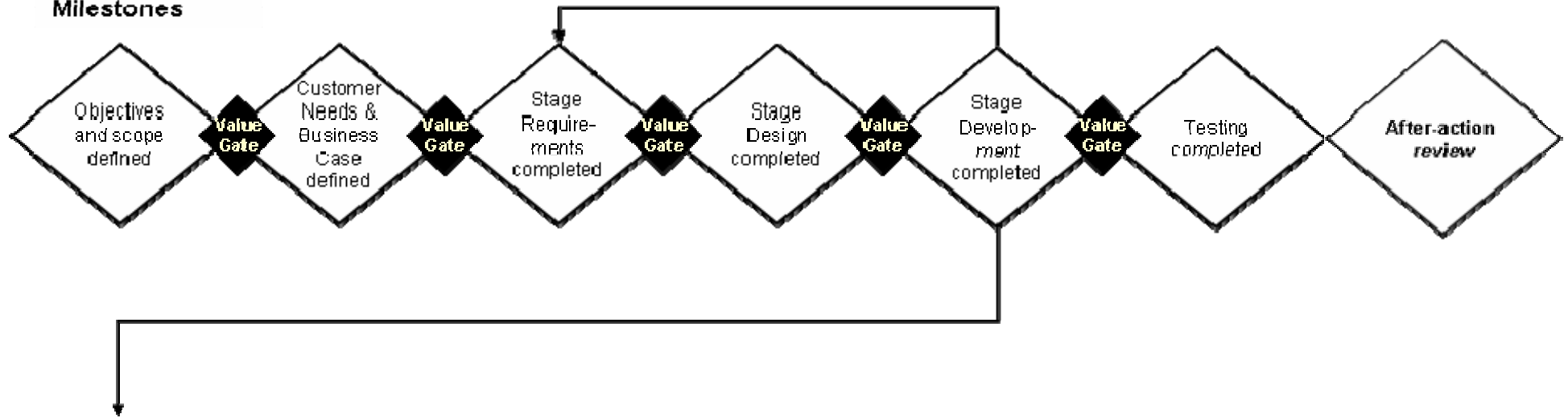
Phase	Need	Tool / Technique	Outputs
Requirements gathering	• Detailed requirements gathering	Decomposition of FAST	Conserves and clarifies functional associations
	• Documentation of requirements		
	• Requirements evaluation and version assignment	Function/value contribution	Quantifies and rationalises benefit analysis
	• Detailed stage planning		

Milestones



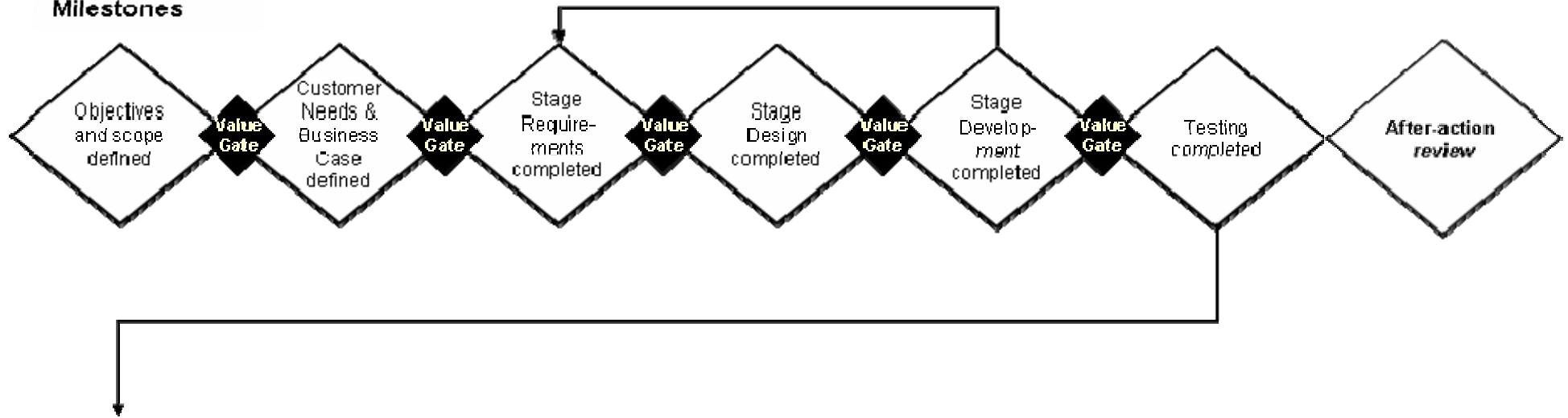
Phase	Need	Tool / Technique	Outputs
<i>Detailed design</i>	<ul style="list-style-type: none"> System design 	Value Engineering workshop	Supports cost-to-function analysis and the generation of ideas to improve resource use
	<ul style="list-style-type: none"> Documentation of requirements 		
	<ul style="list-style-type: none"> Risk Analysis 	FMEA based risk evaluation	Clear plan to manage risks associated with system performance and robustness

Milestones



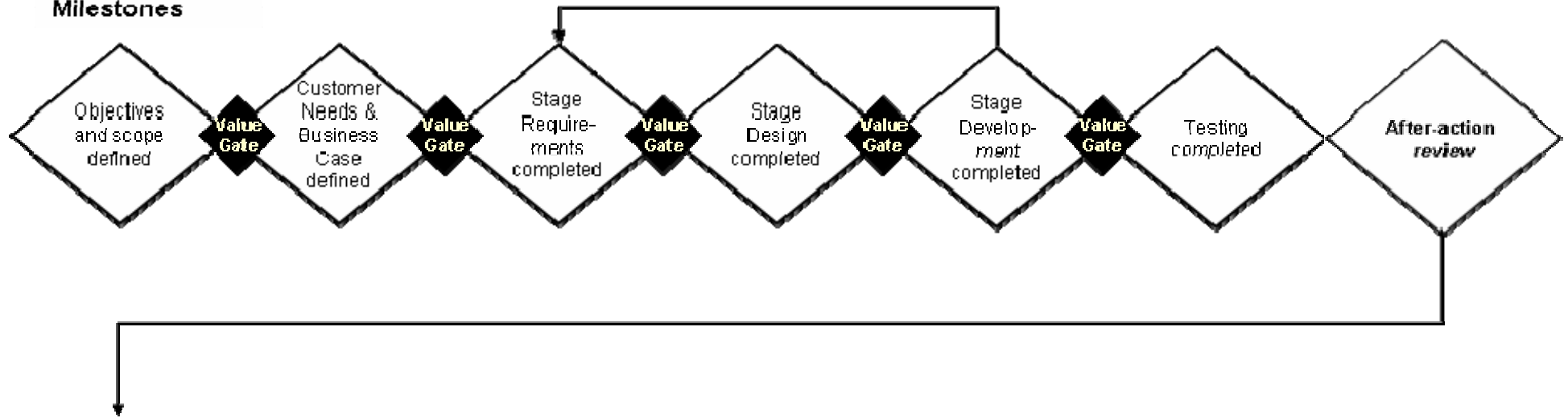
Phase	Need	Tool / Technique	Outputs
<i>Development</i>	• Development work		
	• Unit testing		
	• System assembly		

Milestones



Phase	Need	Tool / Technique	Outputs
System testing	• System testing		
	• Load and stress testing		
	• Debugging and performance improvement	Performance targets variance analysis	Identifies critical performance/cost misalignment and aids decision making

Milestones



Phase	Need	Tool / Technique	Outputs
After-action review	<ul style="list-style-type: none"> Project review 	Value review	Focuses the review process on the value delivered and the causes of missed value targets
		5 Whys	Helps trace root causes rather than symptoms of problems