

The Tool Box of the System Architect

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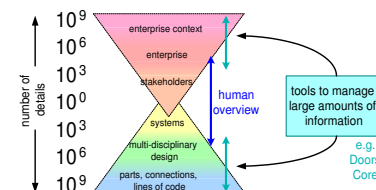
Abstract

The toolbox of a systems architect is filled with a quite diverse collection of tools. We will discuss the “intellectual” tools, practical low-tech tools, a number of classes of computer assistance tools, and architecting related standards.

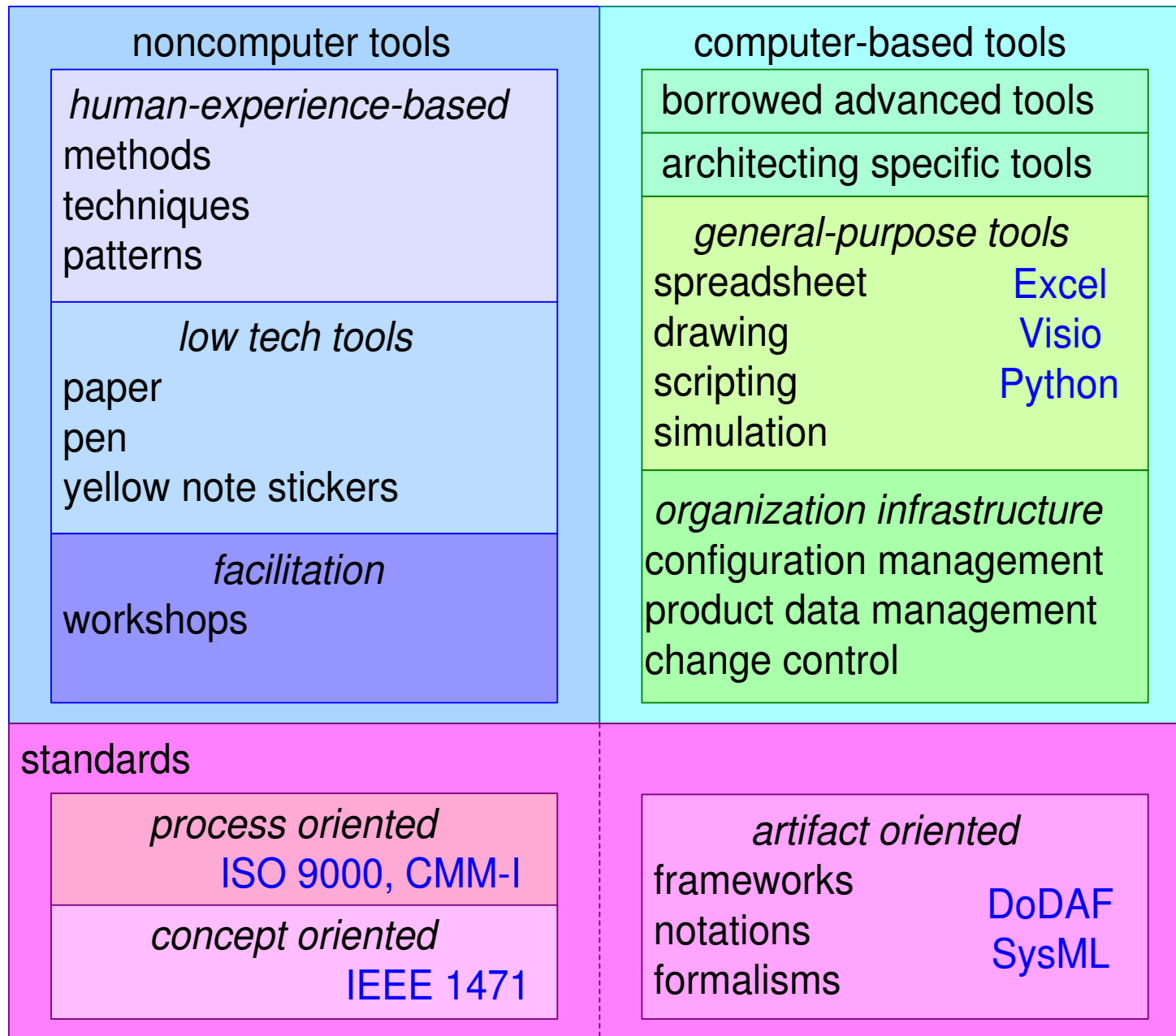
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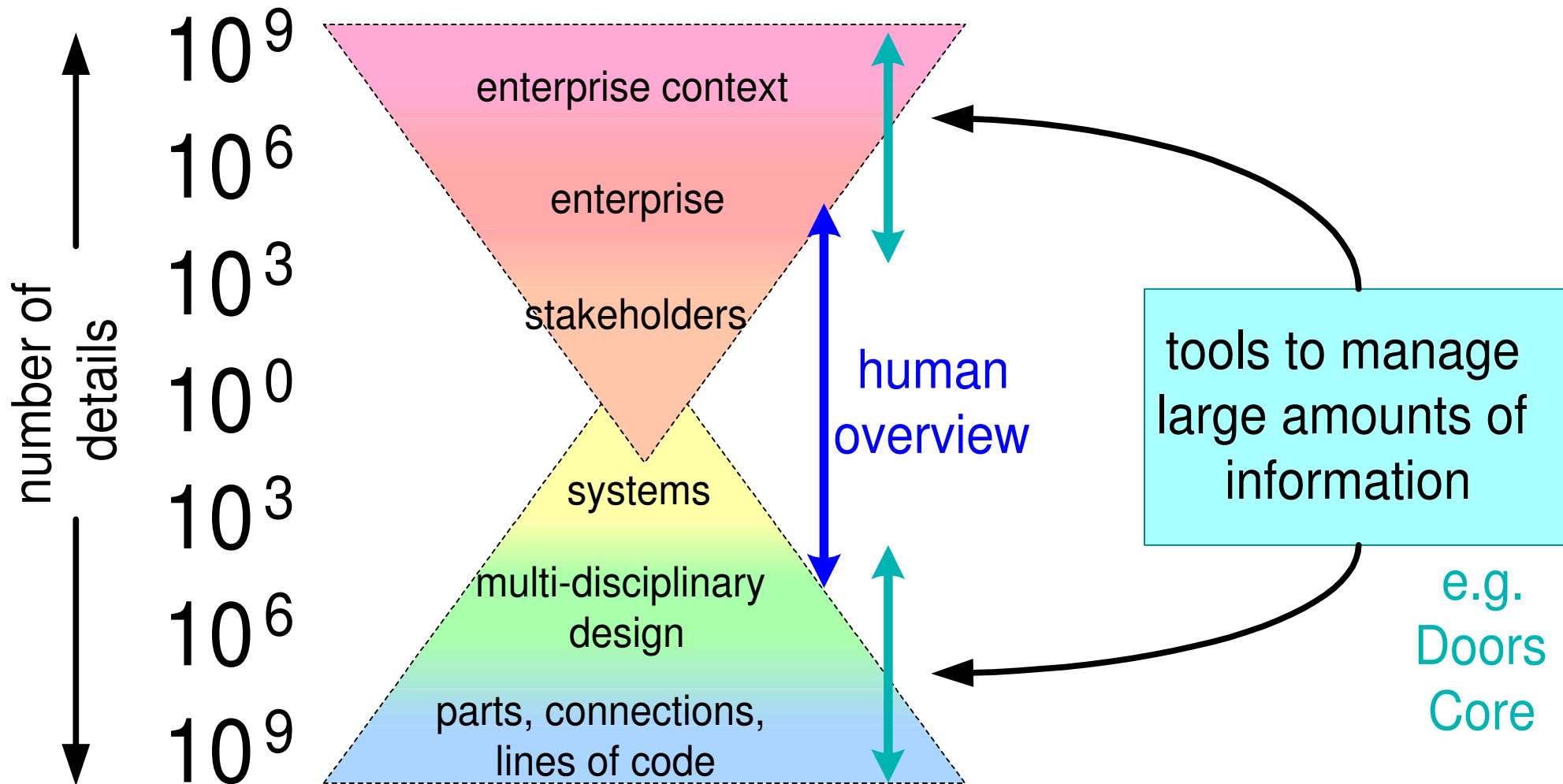
Classification of Architecting Tools



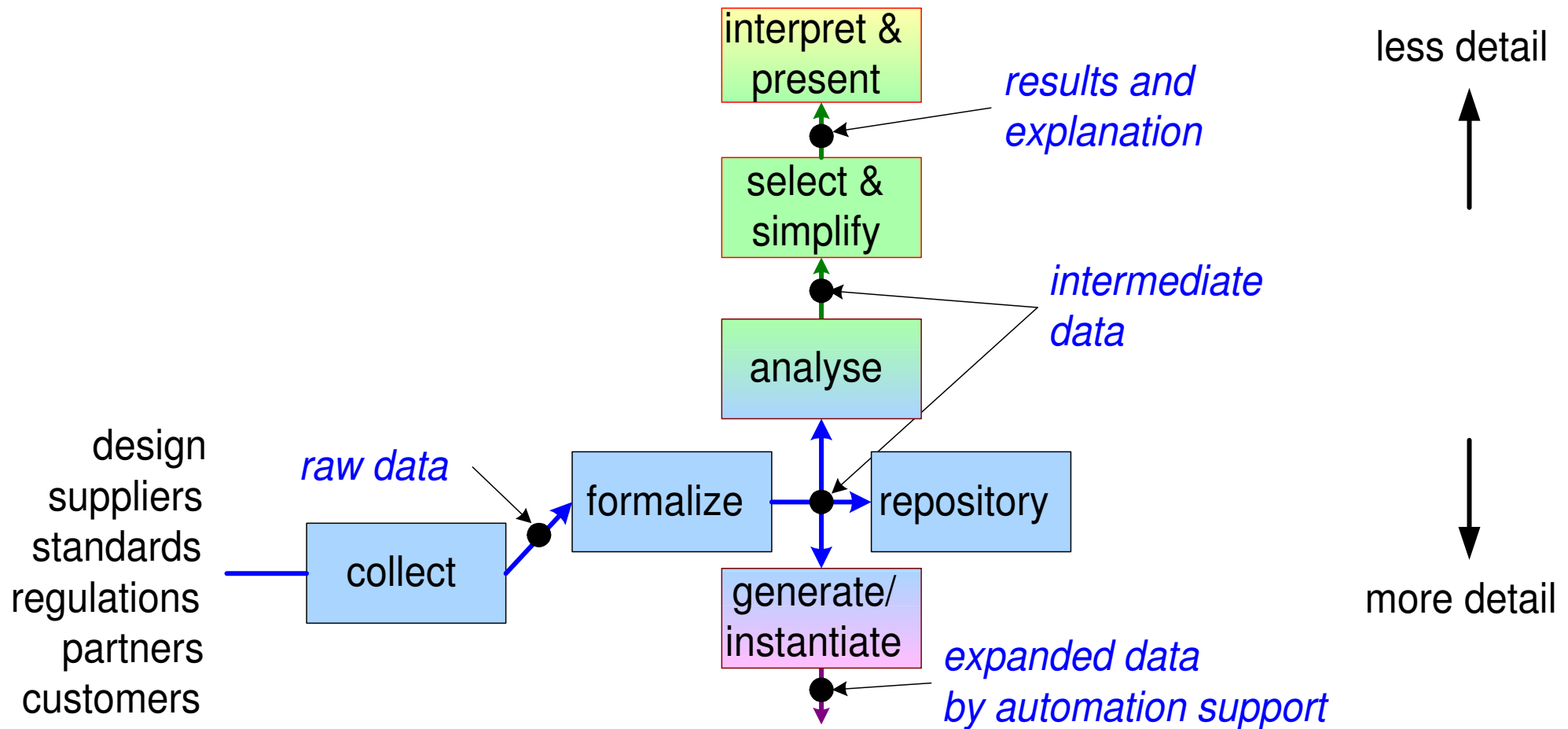
4 Quadrant Comparison of computerized and human tools

	<i>humans</i>	<i>tools</i>	
<i>strength</i>	<ul style="list-style-type: none">focus on overviewidentify essentialsunderstand relationshipsinsight, intuitionsynthesis	<ul style="list-style-type: none">tool dominatesfocus on detailsno understandingfragmentation	<i>weakness</i>
<i>weakness</i>	<ul style="list-style-type: none">limited capacityerroneous behaviorincompletebiased	<ul style="list-style-type: none">"infinite" storage capacity"infinite" processing capacitycompleteneutralno errors	<i>strength</i>

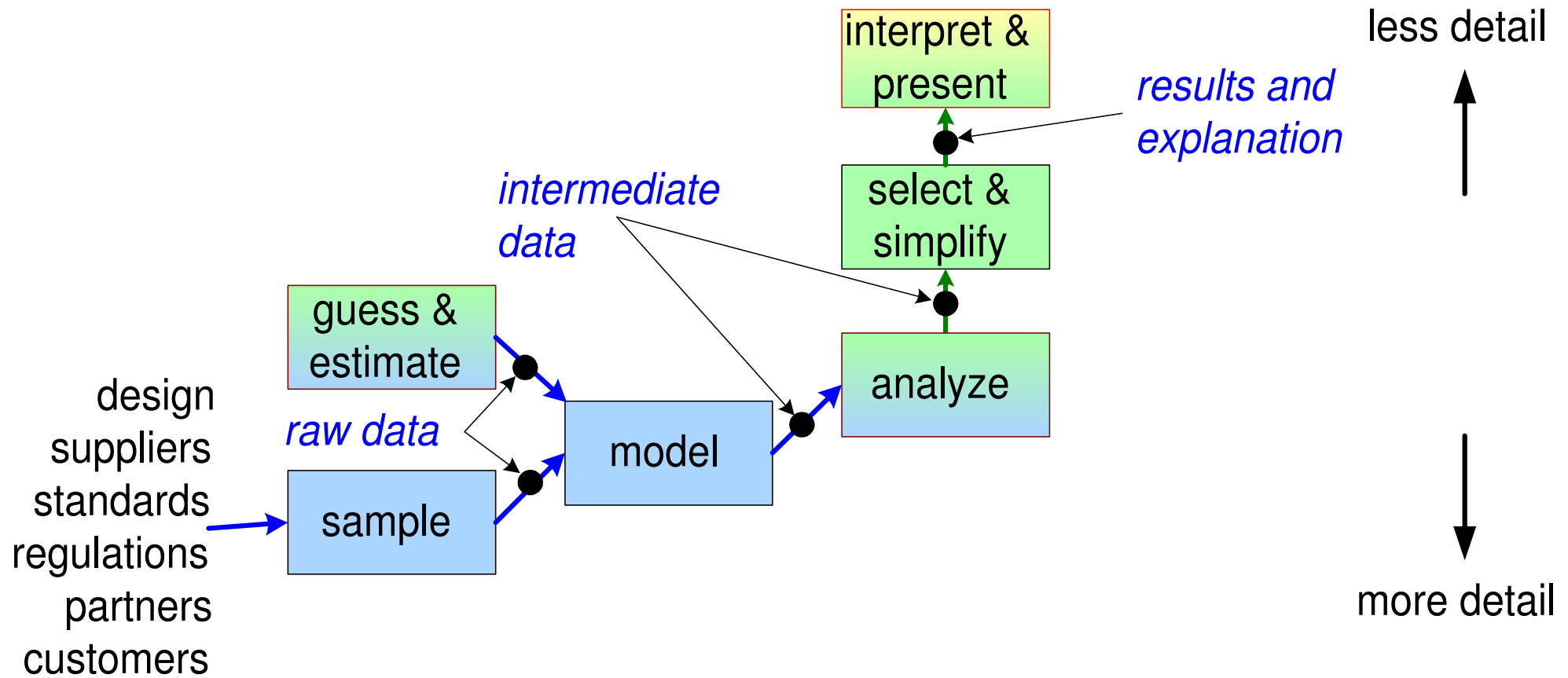
Tools Support Processing of Large Amounts of Details



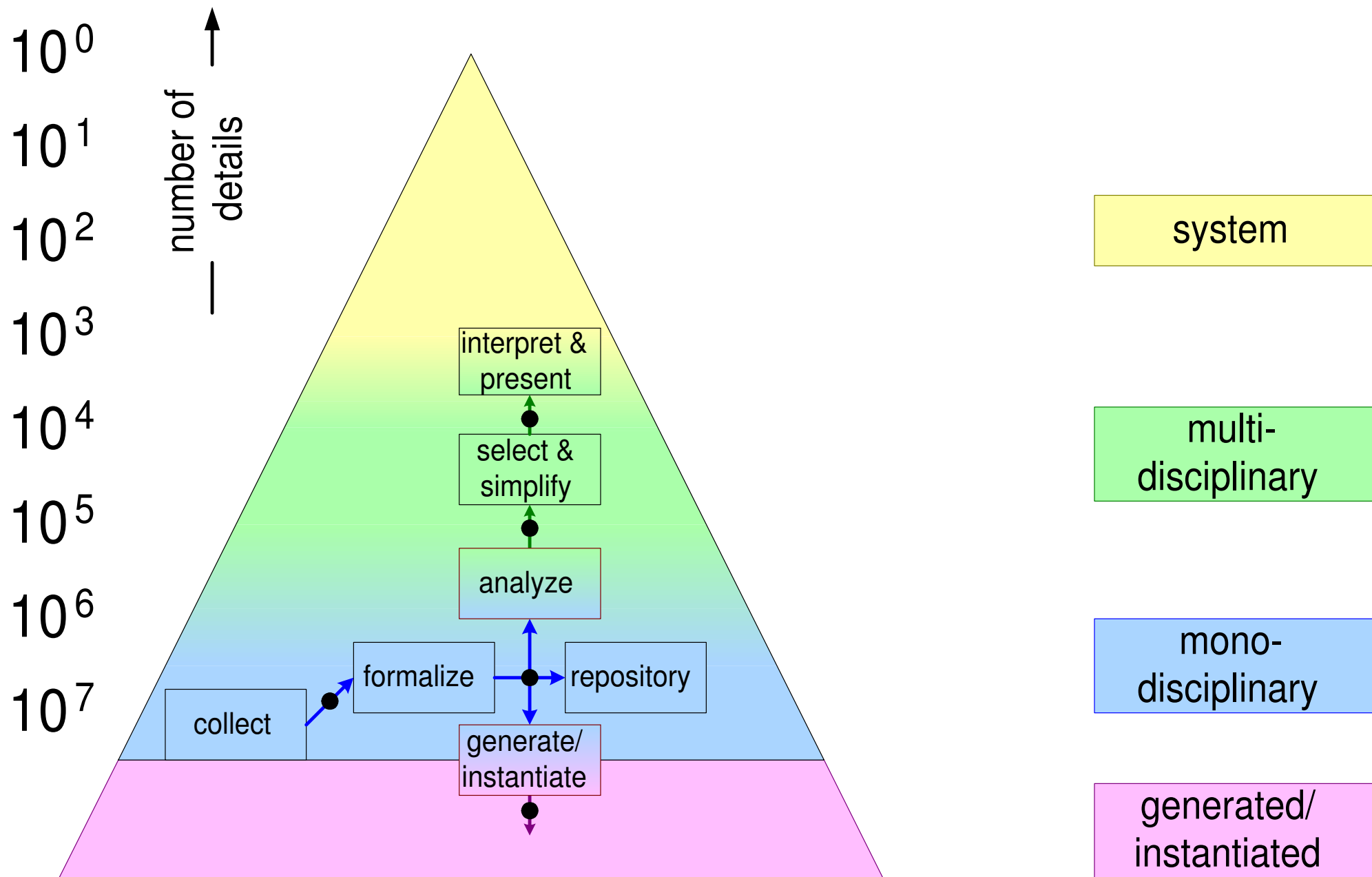
From Data to Understandable Information



Data Flow Early in Creation Process



Data Flow Mapped on Pyramid



Formality Levels in Pyramid

