

# The Tool Box of the System Architect

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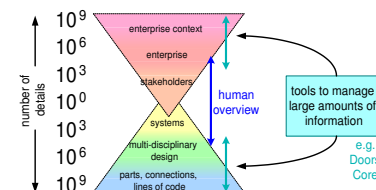
## Abstract

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.

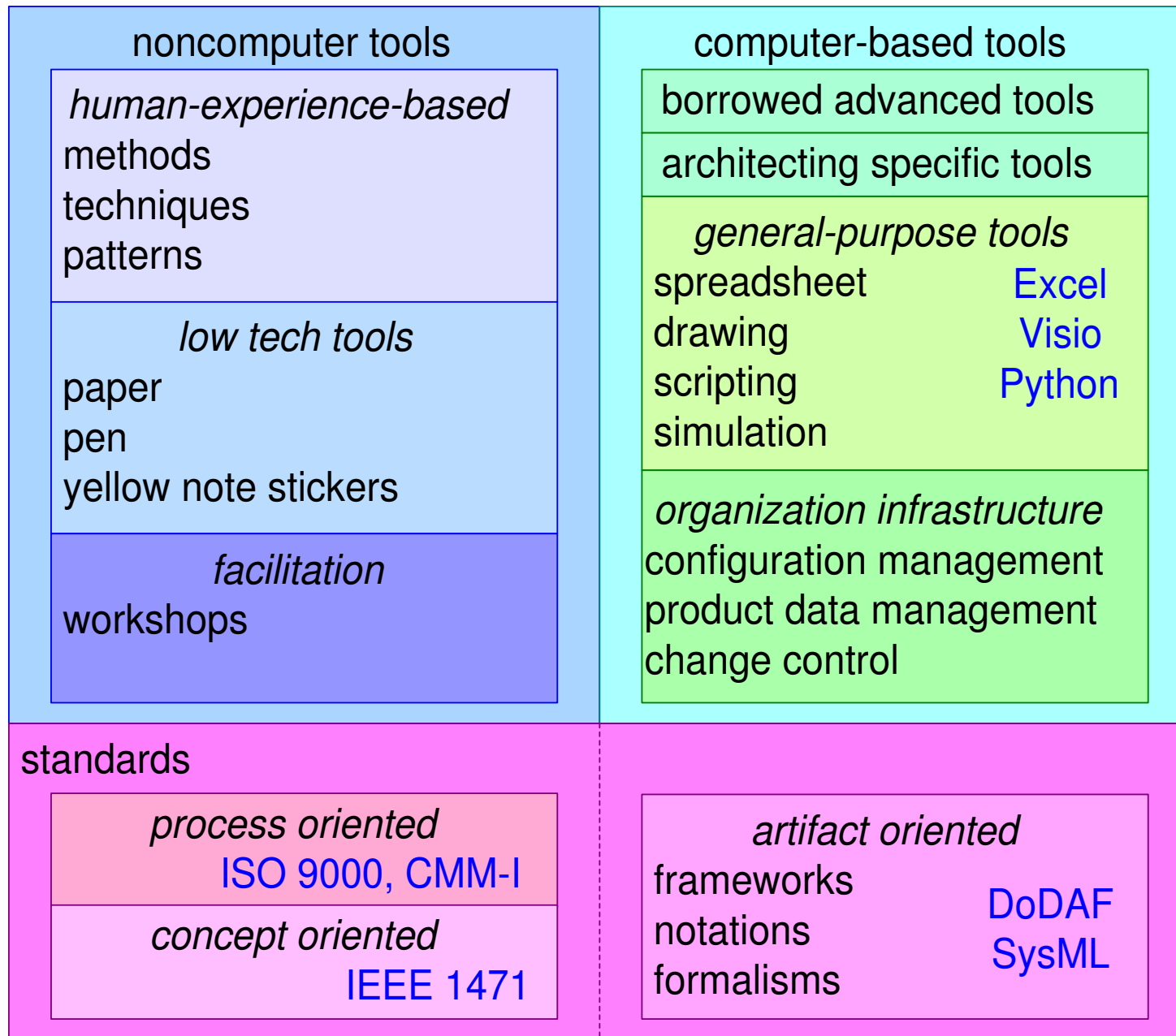
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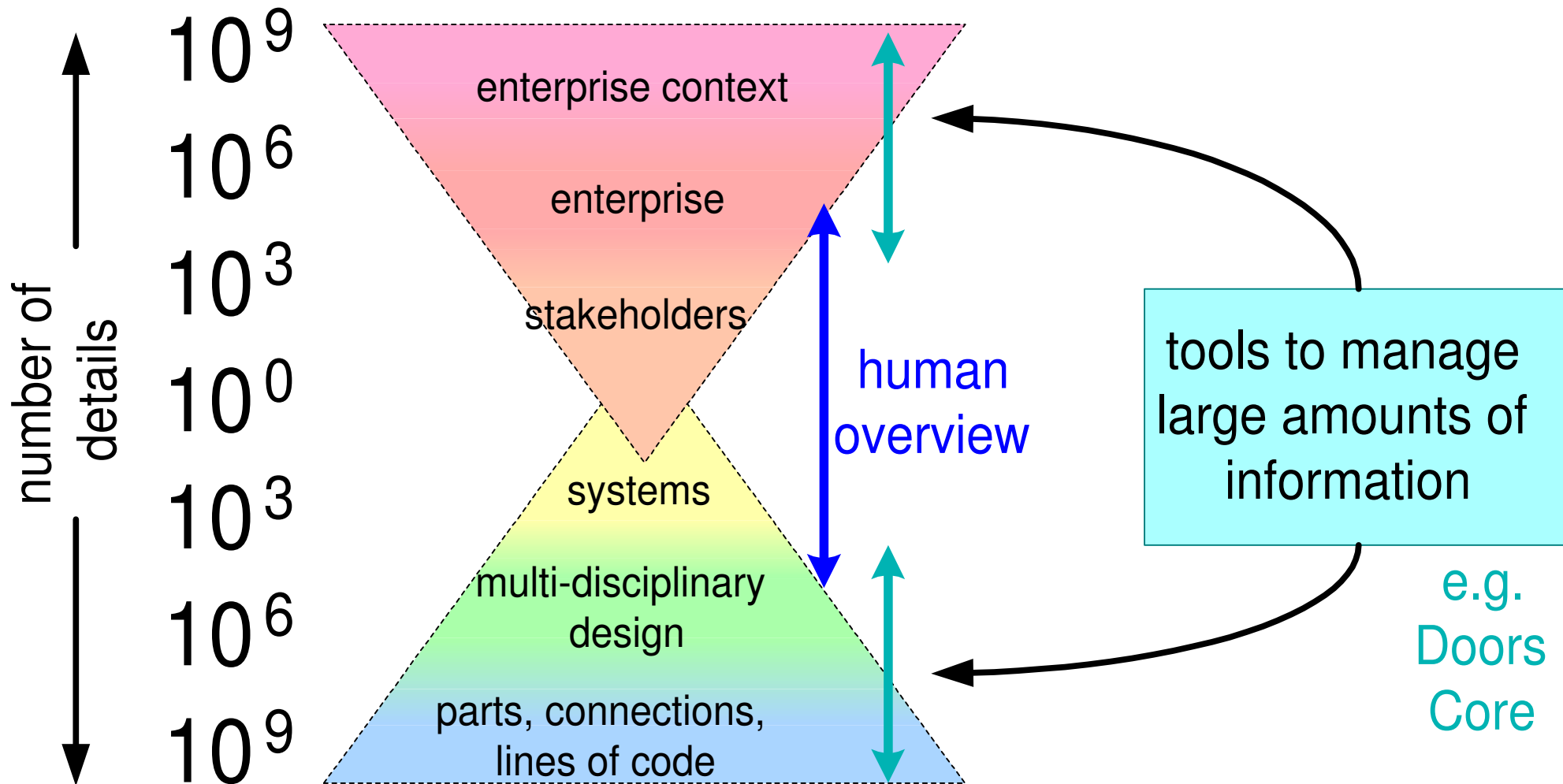
# Classification of Architecting Tools



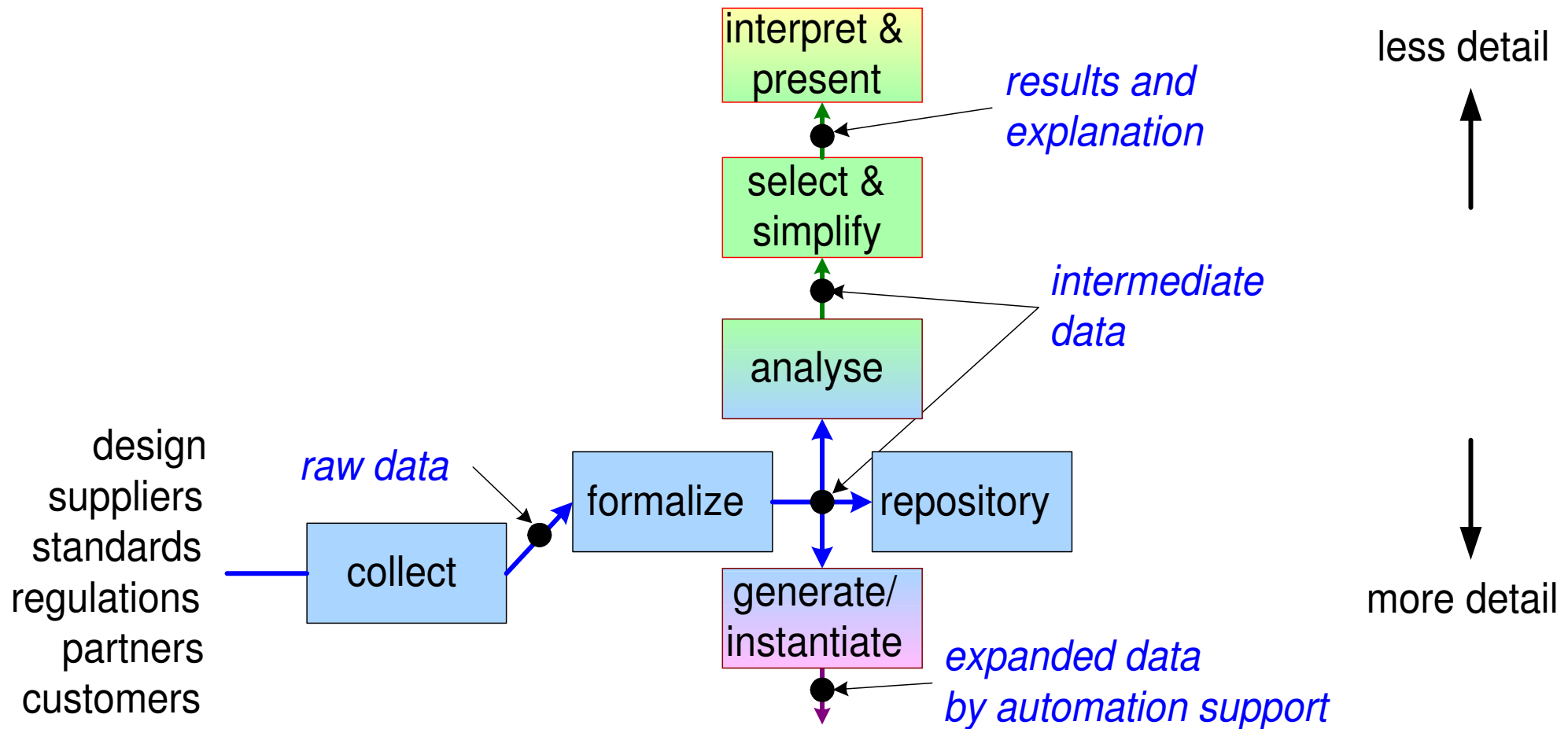
# 4 Quadrant Comparison of computerized and human tools

	<i>humans</i>	<i>tools</i>	
<i>strength</i>	<ul style="list-style-type: none"><li>focus on overview</li><li>identify essentials</li><li>understand relationships</li><li>insight, intuition</li><li>synthesis</li></ul>	<ul style="list-style-type: none"><li>tool dominates</li><li>focus on details</li><li>no understanding</li><li>fragmentation</li></ul>	<i>weakness</i>
<i>weakness</i>	<ul style="list-style-type: none"><li>limited capacity</li><li>erroneous behavior</li><li>incomplete</li><li>biased</li></ul>	<ul style="list-style-type: none"><li>"infinite" storage capacity</li><li>"infinite" processing capacity</li><li>complete</li><li>neutral</li><li>no errors</li></ul>	<i>strength</i>

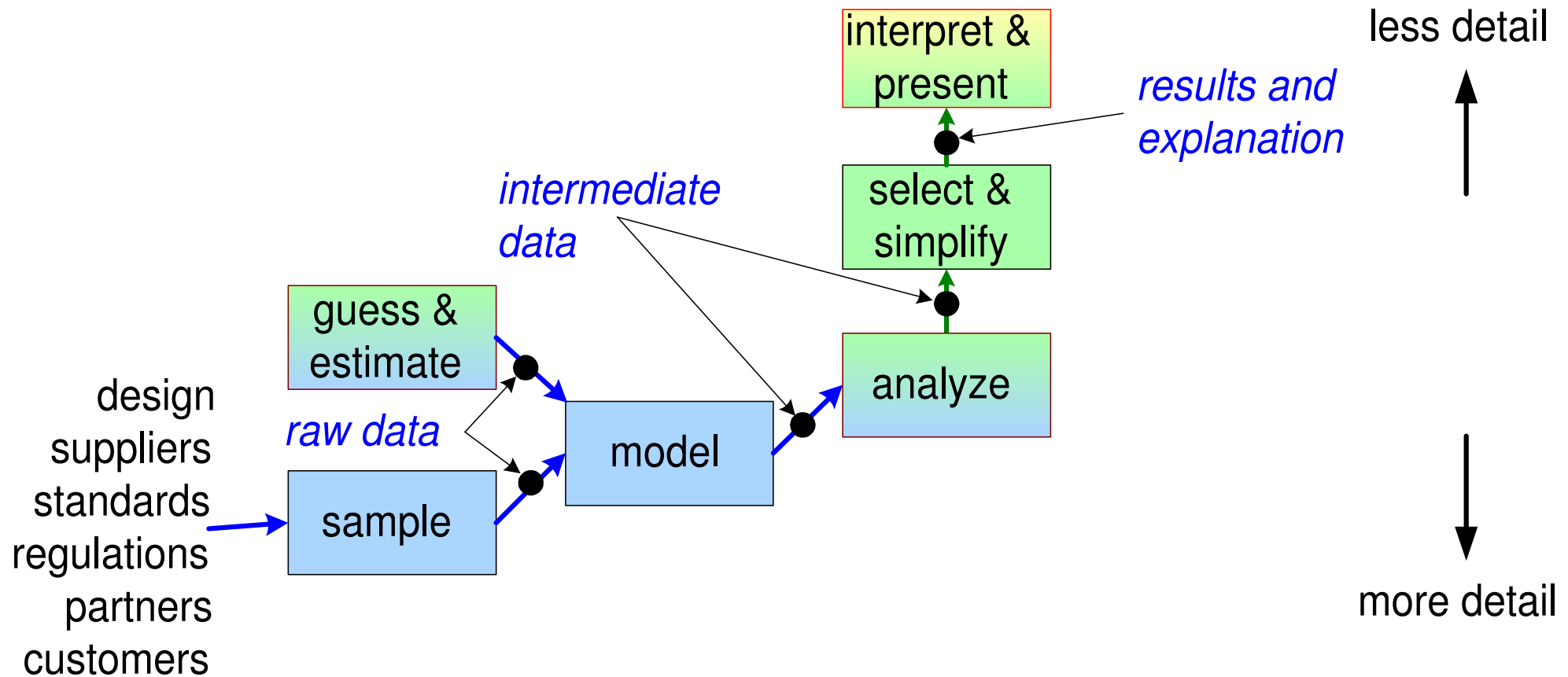
# Tools Support Processing of Large Amounts of Details



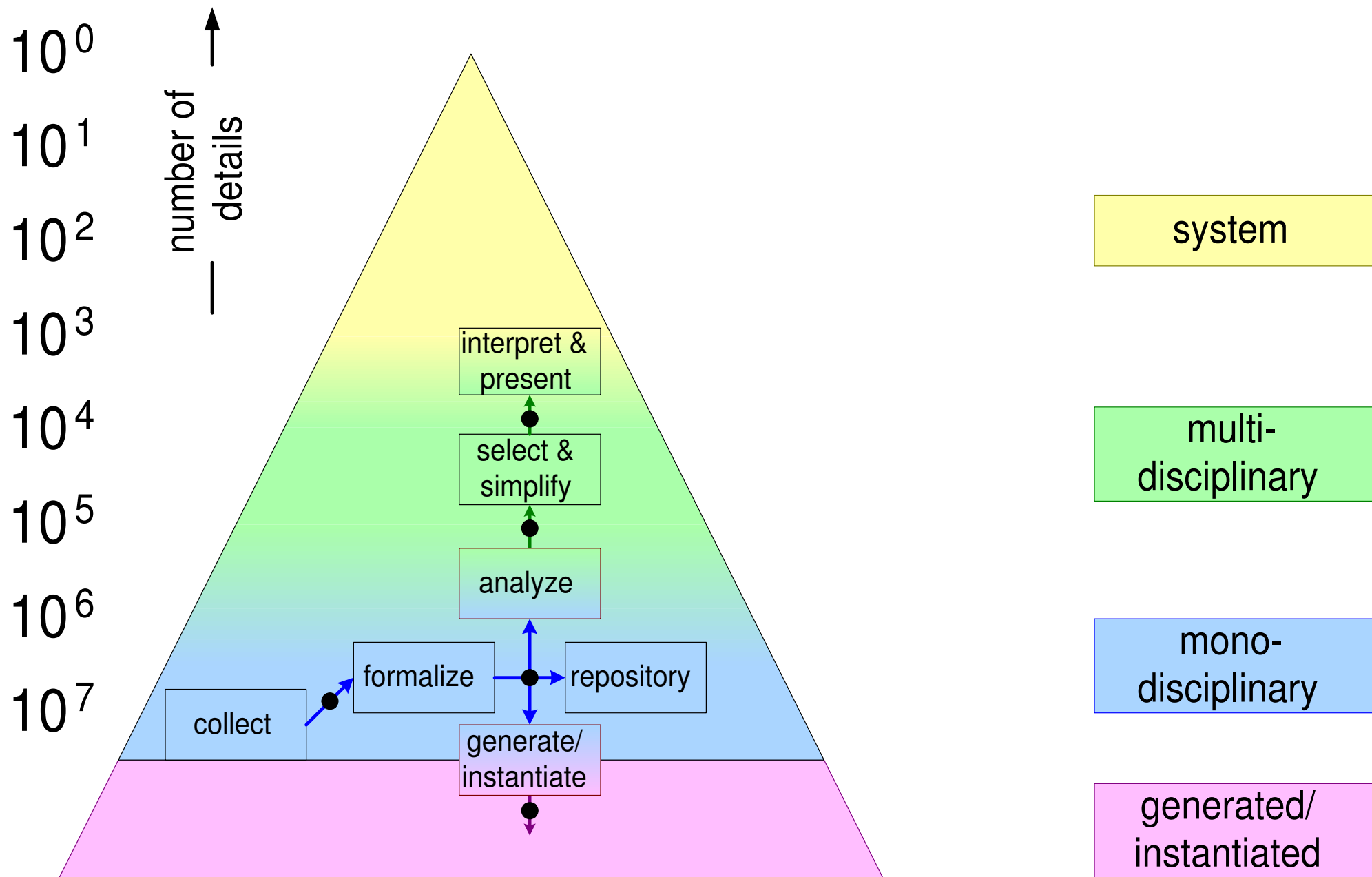
# From Data to Understandable Information



# Data Flow Early in Creation Process



# Data Flow Mapped on Pyramid



# Formality Levels in Pyramid

