

# The Tool Box of the System Architect

by *Gerrit Muller* University of South-Eastern Norway-NISE

e-mail: `gaudisite@gmail.com`

`www.gaudisite.nl`

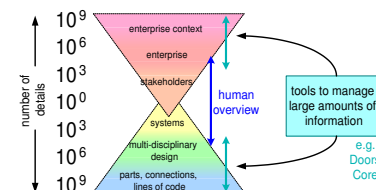
## Abstract

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.

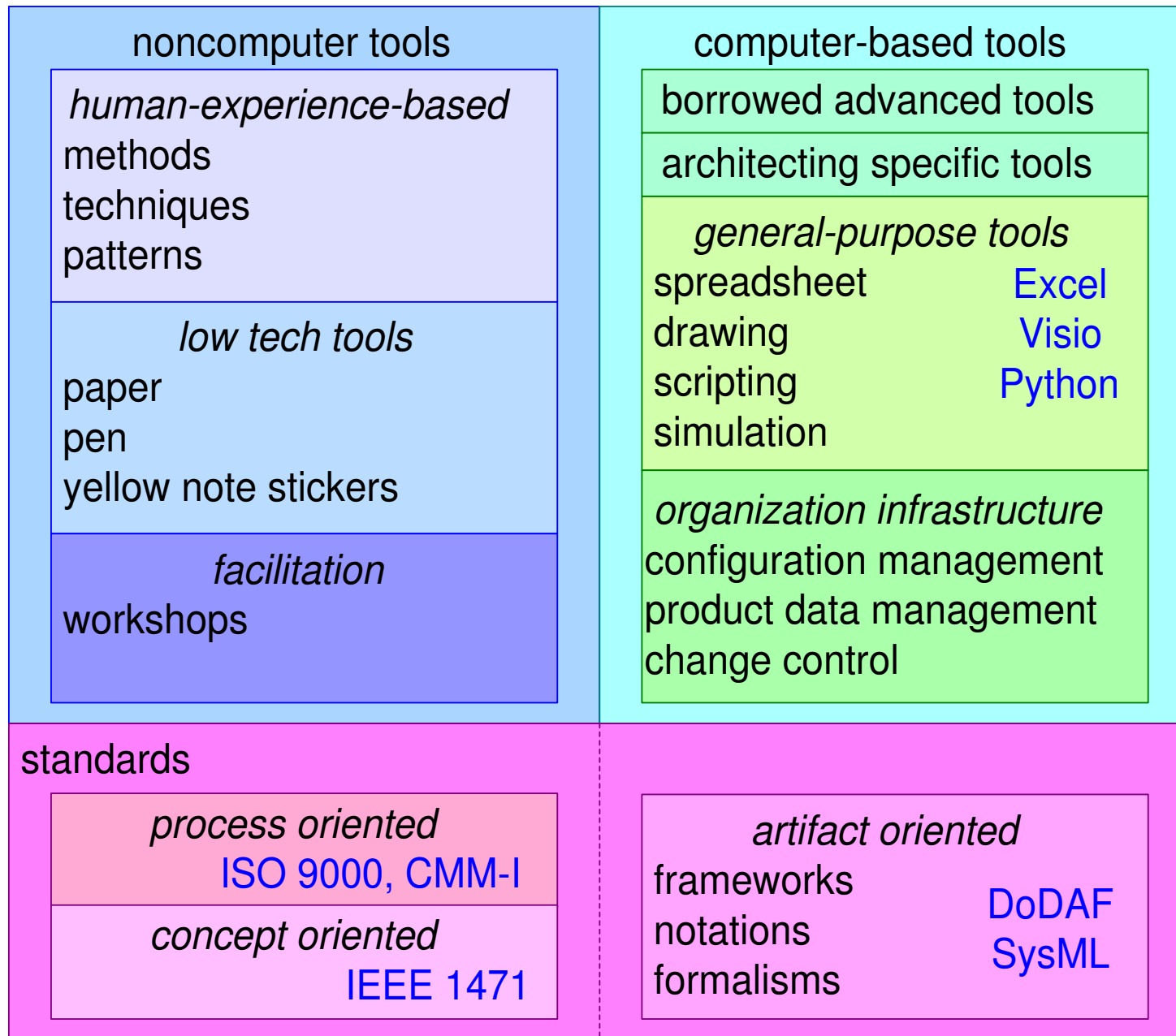
### Distribution

This article or presentation is written as part of the Gaudí project. The Gaudí project philosophy is to improve by obtaining frequent feedback. Frequent feedback is pursued by an open creation process. This document is published as intermediate or nearly mature version to get feedback. Further distribution is allowed as long as the document remains complete and unchanged.

September 9, 2018  
status: draft  
version: 0.1



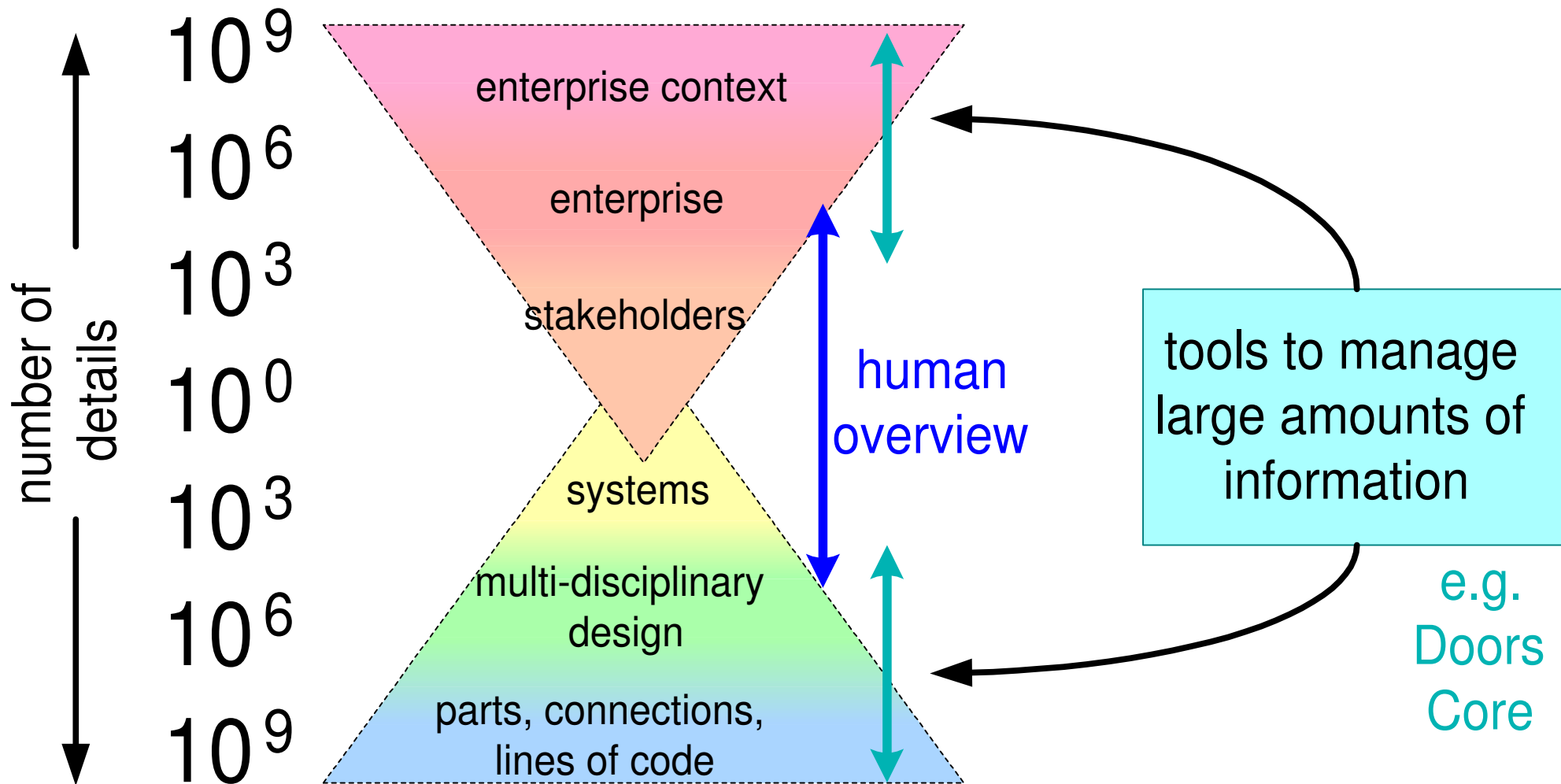
# Classification of Architecting Tools



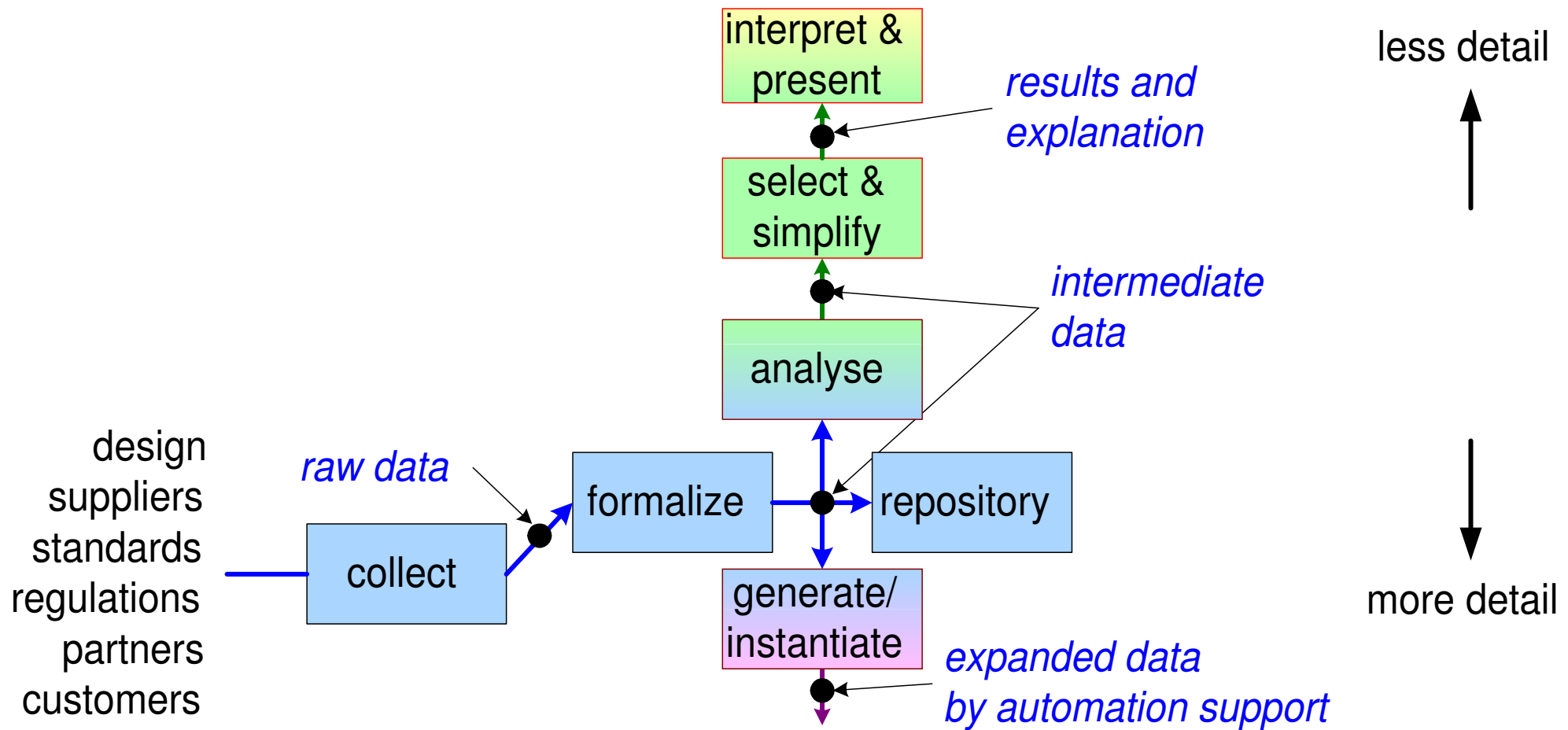
# 4 Quadrant Comparison of computerized and human tools

	<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>

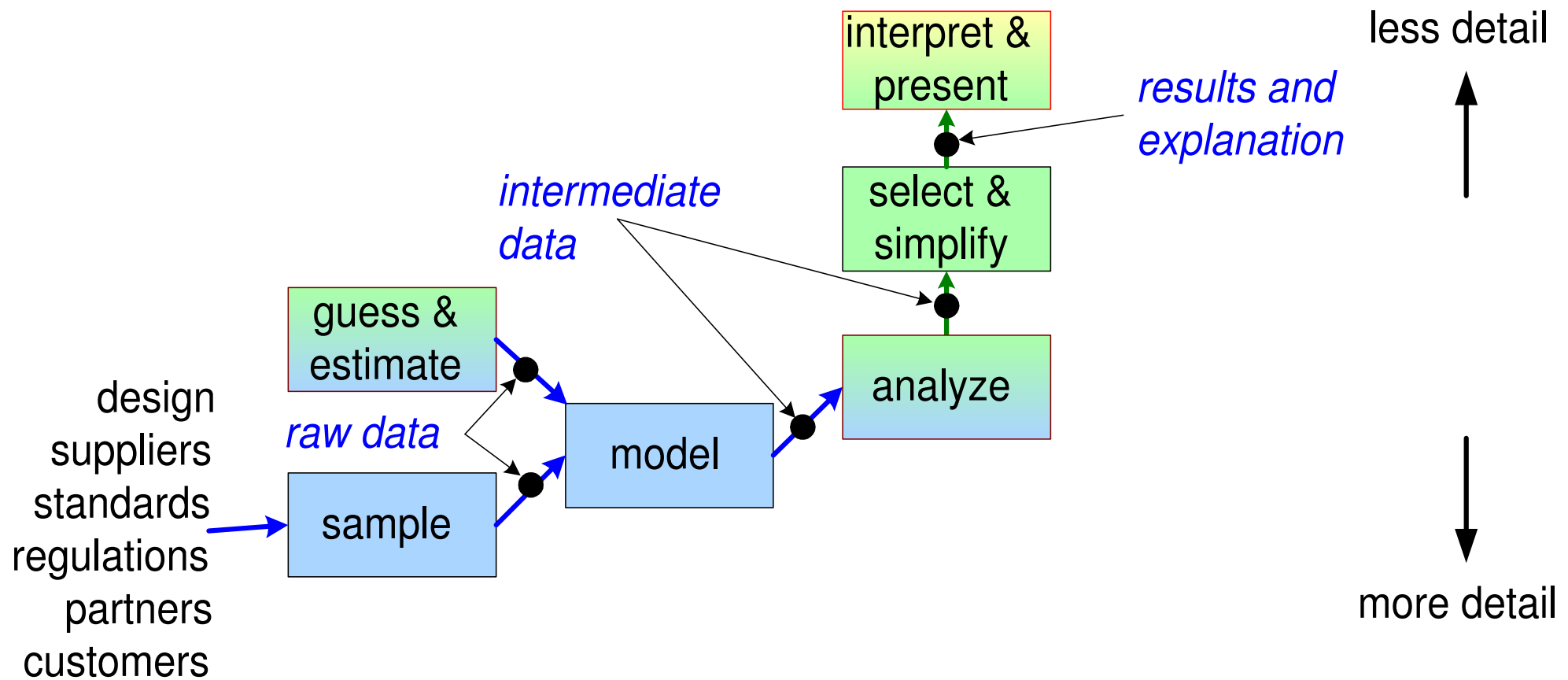
# Tools Support Processing of Large Amounts of Details



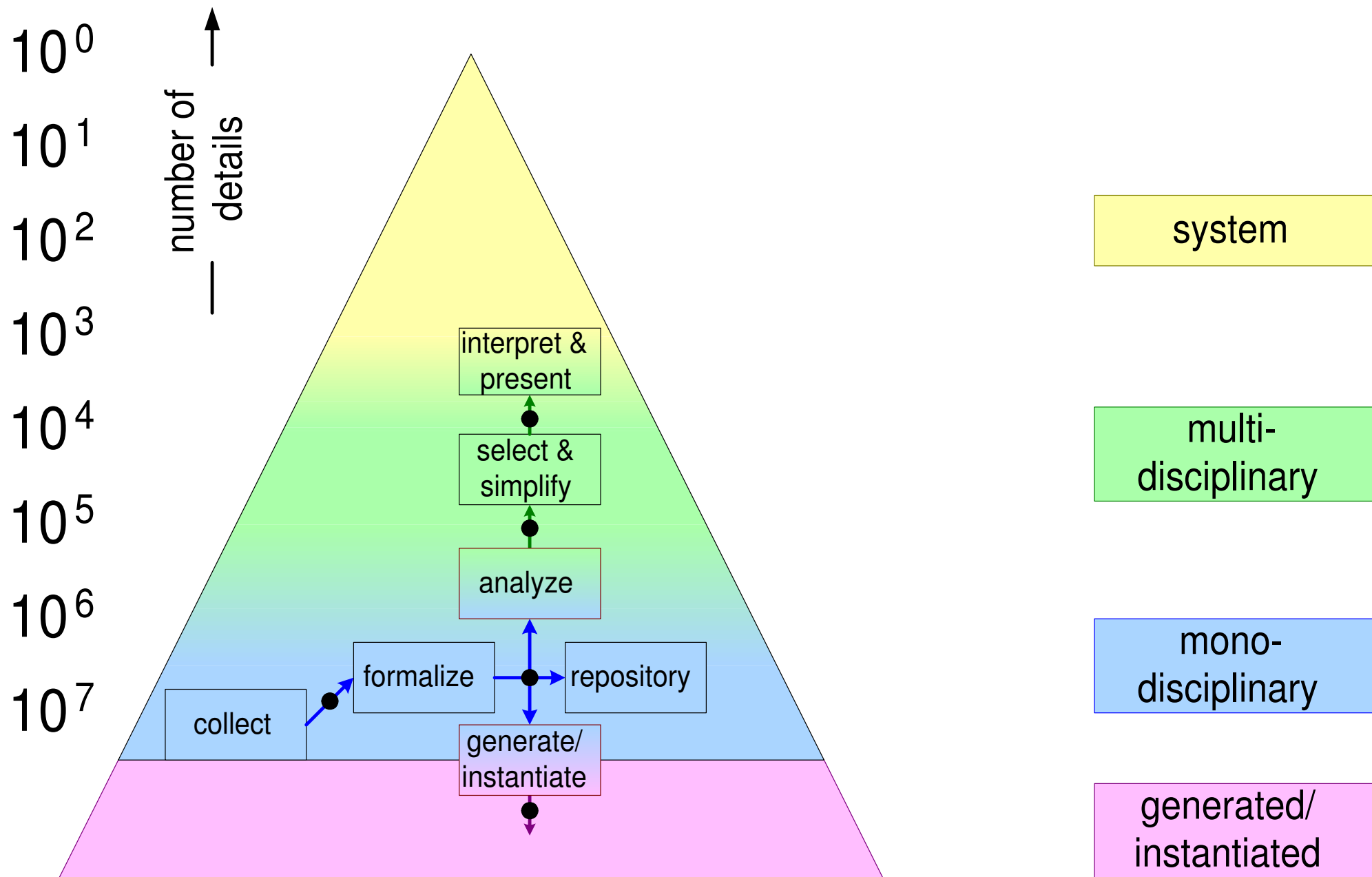
# From Data to Understandable Information



# Data Flow Early in Creation Process



# Data Flow Mapped on Pyramid



# Formality Levels in Pyramid

