

THE RISE OF ABSTRACTION AND ORGANIZATIONAL CHANGE: PRESERVING HUMAN CONTROL IN THE AGE OF AI



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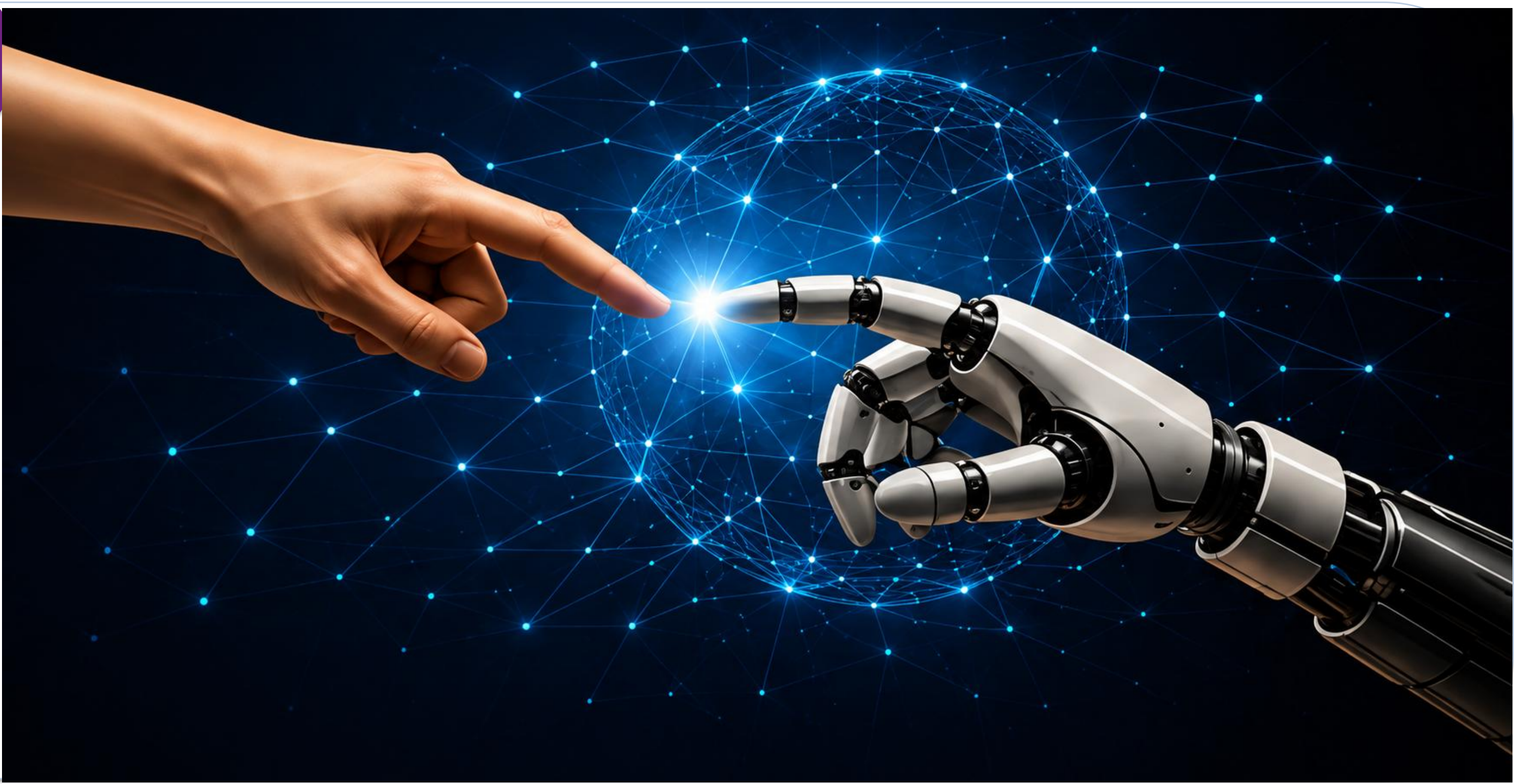
ABSTRACT

Human progress has been driven by the ability to abstract reality and focus on what matters: objectives and intentions rather than mechanisms. This paper examines how increasing abstraction - from physical world to programming, models and architecture - transforms not only technology but also organizations and professional roles. In the age of AI, abstraction must be preserved to keep humans in control and in charge of purpose, value and responsibility.

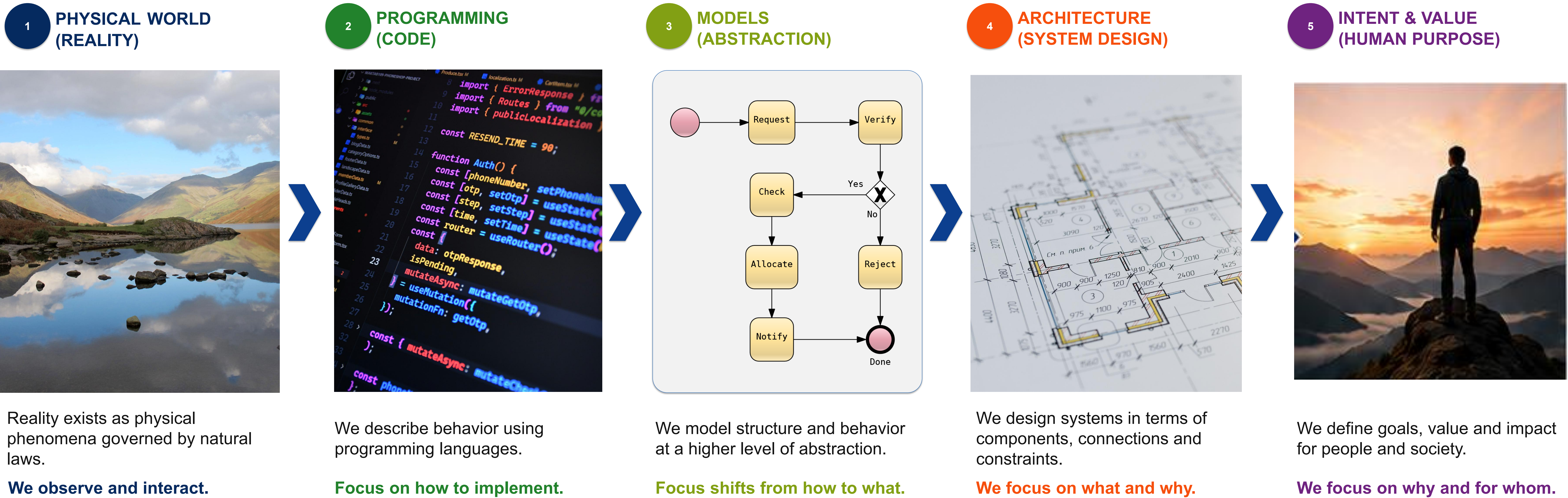
KEY MESSAGE

AI SHOULD
GENERATE
MODELS,
NOT CODE.

MODELS PRESERVE
ABSTRACTION,
INTENT, AND HUMAN
CONTROL.



FROM HOW TO WHAT : THE ASCENT OF ABSTRACTION



MORE DETAIL
LOWER ABSTRACTION

MORE ABSTRACTION
MORE VALUE

THE ARCHITECT'S ROLE: A CONDUCTOR, NOT A KING



- The architect coordinates diverse expert domains to create coherent and valuable systems.
- Success relies on collaboration, not command and control.
- The architect gives meaning, direction and balance to the whole.

ORGANIZATIONAL IMPACT OF ABSTRACTION

- 1 Higher abstraction changes roles and responsibilities.
- 2 Specialists may feel reduced to executors of predefined designs.
- 3 This can trigger resistance, protect territories and slow transformation.
- 4 Organizations must evolve as much as technologies.
- 5 Alignment, trust and shared vision are key to success.

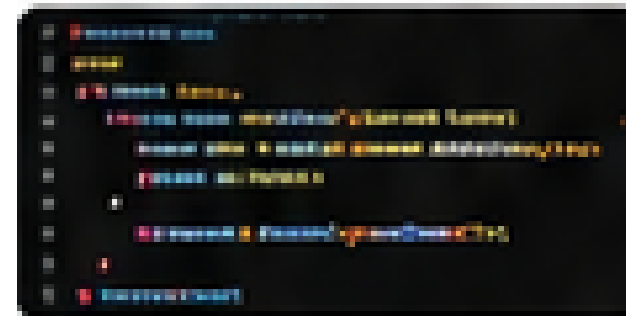
ABSTRACTION THROUGH HISTORY: ENABLING HUMAN ACHIEVEMENT



LANGUAGE
Abstracts experience into concepts.



ARCHITECTURE
Abstracts constructions into plans.



PROGRAMMING
Abstracts electronics into logic and code.



MODELING & DIGITAL TWINS
Abstract complex systems for understanding, prediction and decision.

CHALLENGE IN THE AGE OF AI



- ✓ AI can generate code.
- ✓ AI can also generate models.
- ✓ Only models preserve abstraction and human intent.
- ✓ Code without abstraction leads to loss of control and agility.

CONCLUSION:
PRESERVE ABSTRACTION,
KEEP HUMANS IN CONTROL.

IN THE AGE OF AI,
THE FUTURE BELONGS TO THOSE WHO
DESIGN MODELS,
ALIGN ORGANIZATIONS,
AND CREATE VALUE
FOR PEOPLE AND SOCIETY.

