



# Processes in the AI age: One year later

## The Stages roadmap

Erich Meier

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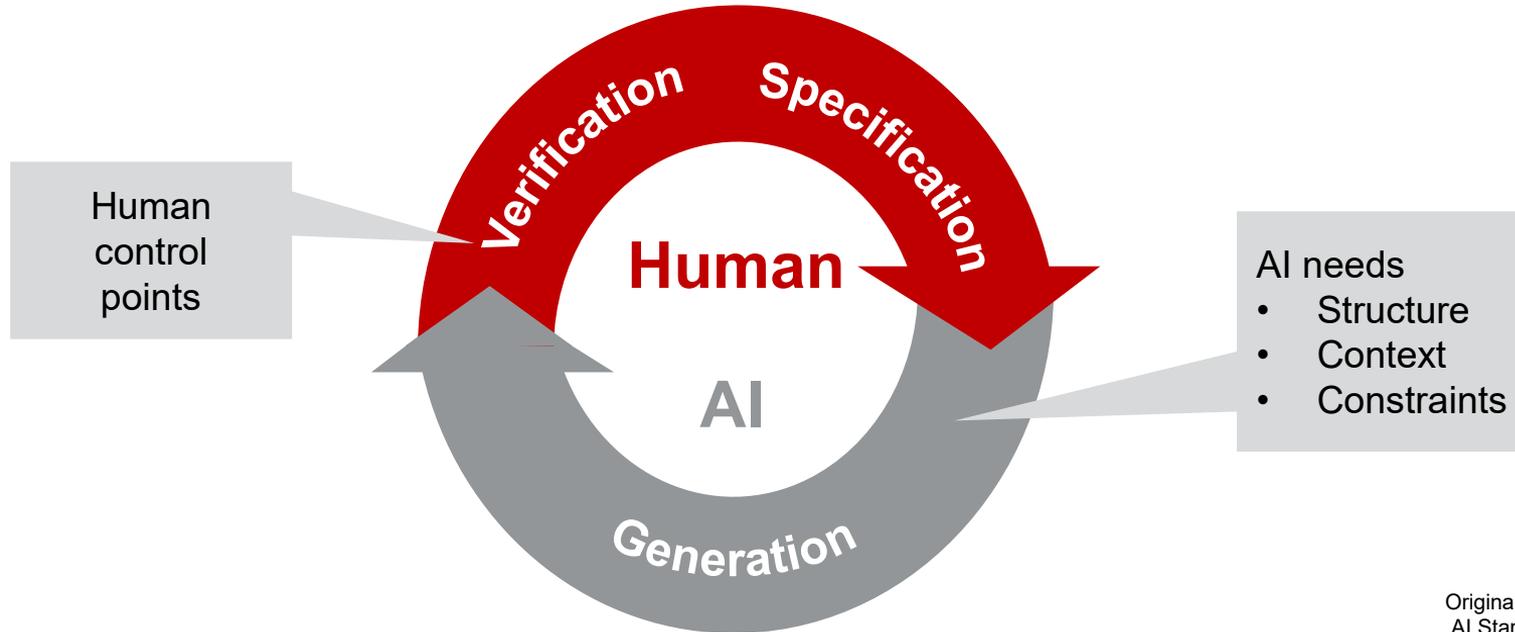
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# “Do we still need models when we have AI?”

Source: UL Microsoft Copilot

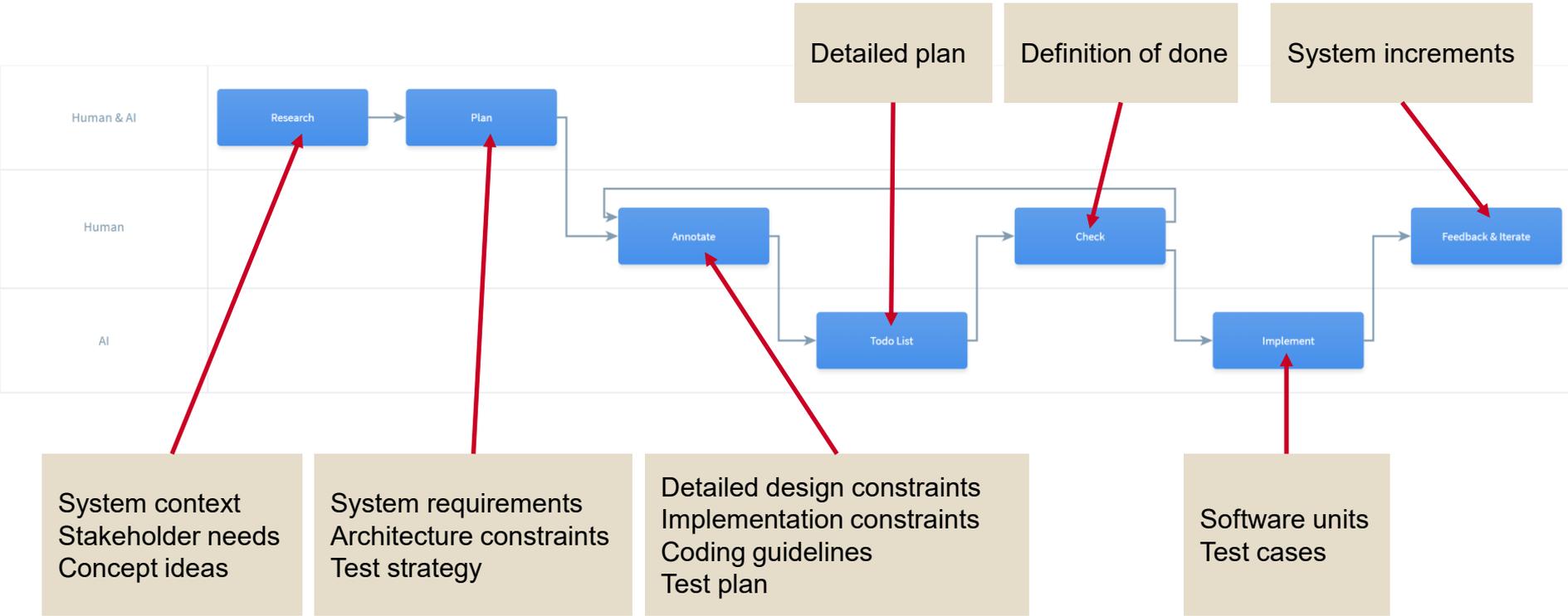


# AI-assisted engineering

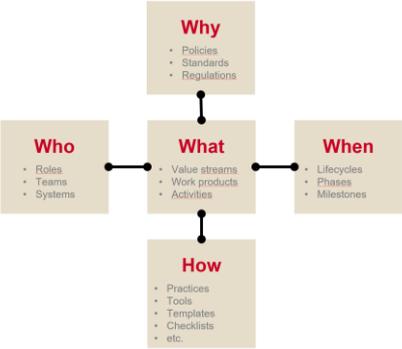


**Successful human AI collaboration at scale requires process expertise and discipline.**

# AI coding sample process



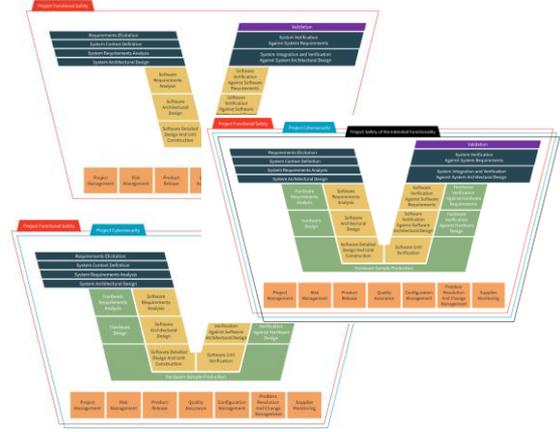
# Well-defined processes are key to AI-assisted development



Context-rich process metamodel



Fully defined process model



Process tailoring based on actual requirements

**Knowledge graph**

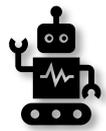


Engineers and supporting roles



**Graph RAG\* AI system**

\*Retrieval Augmented Generation (RAG)



AI agents and other AI systems

Let's see how this can work



# “Because of process”

Source: UL Microsoft Copilot



**We need to focus on process outcomes and impact.**

# High-quality processes

Are:

- Useful
- Pragmatic
- Appropriate
- Standard-compliant

Less:

- Steps
- Wait times
- Missing inputs
- Rework

Better:

- Decision making
- Product quality
- Time to market

**When we have designed high-quality processes,  
we need to bring them to the user.**

Let's see how this can work



# Processes for individuals



- “If I only knew then what I know now”
- “Everyone is different”
- “Show me only what matters to me now”



**Processes need to be personalized based on roles, time and other context.**

# What's coming



# Stages roadmap

We deliver

## now

### Innovate Stages platform

Accelerate data access and mass operations, e.g., process module update, process version creation

26.1

### Support Agentic AI

Provide interfaces and services to support the execution of AI agents via MCP and other APIs

26.1

### Personal process

Reduce efforts for end users to find processes relevant for them and speed up process understanding via personalization

### Process execution

Improve process adherence and ease of use by executing processes in engineering systems based on specific use cases and lifecycle requirements

### Industrial & Defense Process Frameworks

Support industrial and defense vehicle companies in complying with CRA and implementing ISO 15288 & ISO 12207

We plan to do

## next

### Integrate with PLM

Create tailored and standard-compliant product plans for PLM systems to improve process adherence and compliance

### Process compliance AI agent

Use AI to automatically map processes to new reference models and standards

### Evidence analysis AI agents

Use AI to analyze work product evidence against target quality levels and compliance requirements

### Improve process guidance

Enable process participants to comfortably edit process guidance (like in Confluence)

### Organizational Mgmt Frameworks

Support organizations to set up unified Cybersecurity (CSMS), AI Safety (AIMS), Software Update (SUMS), and Functional Safety Management Systems (FSMS)

We consider

## later

### Support multiple tailoring levels

Enable locking in tailoring answers so they cannot be modified by subsequent process instantiations

### Process improvement AI agent

Use AI to automatically find process weaknesses and propose improvements

### Process execution in PTC Codebeamer

Create relevant process activities and work products as issues in Codebeamer ALM

### Process execution in Polarion

Create relevant process activities and work products as issues in Siemens Polarion ALM

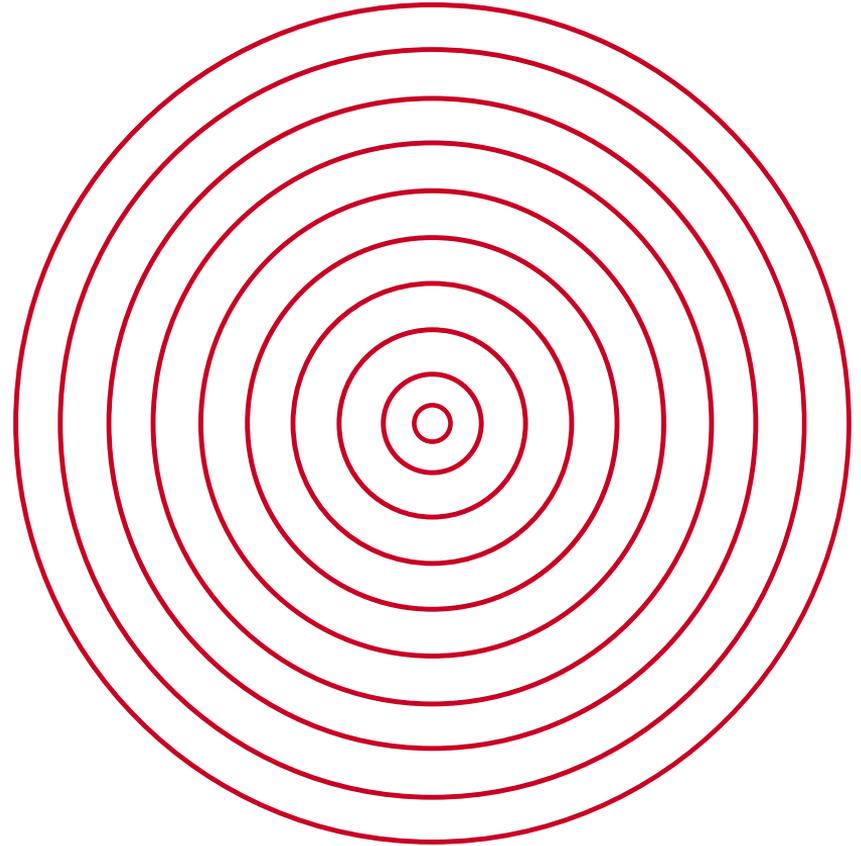
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# Questions?



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