

Focus on impact

The Stages roadmap

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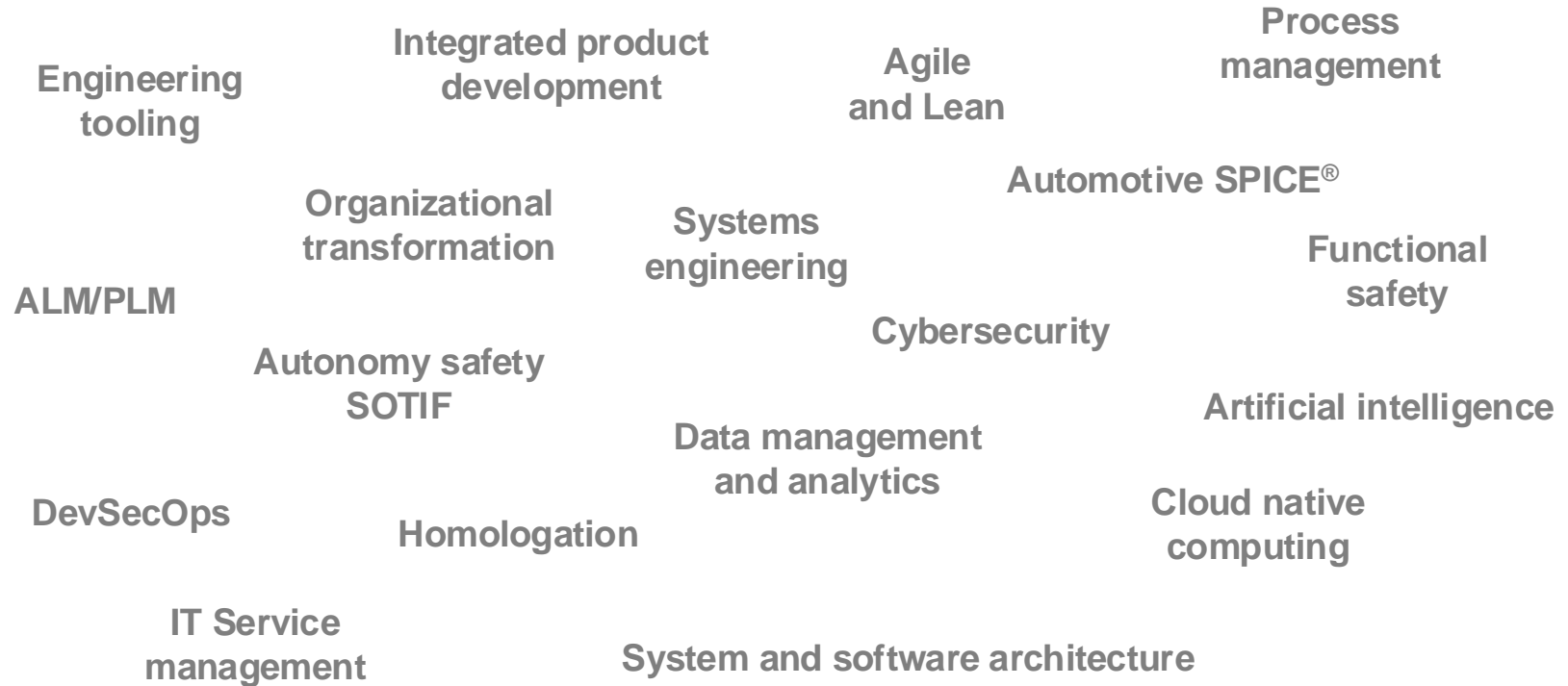
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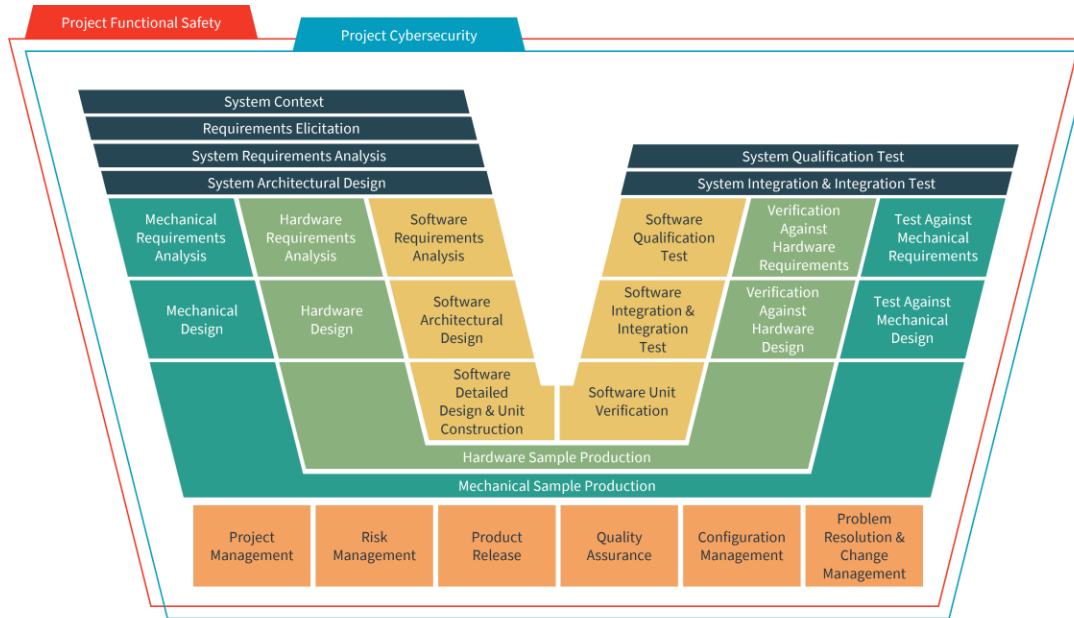
Bringing together excellence



Bringing together excellence



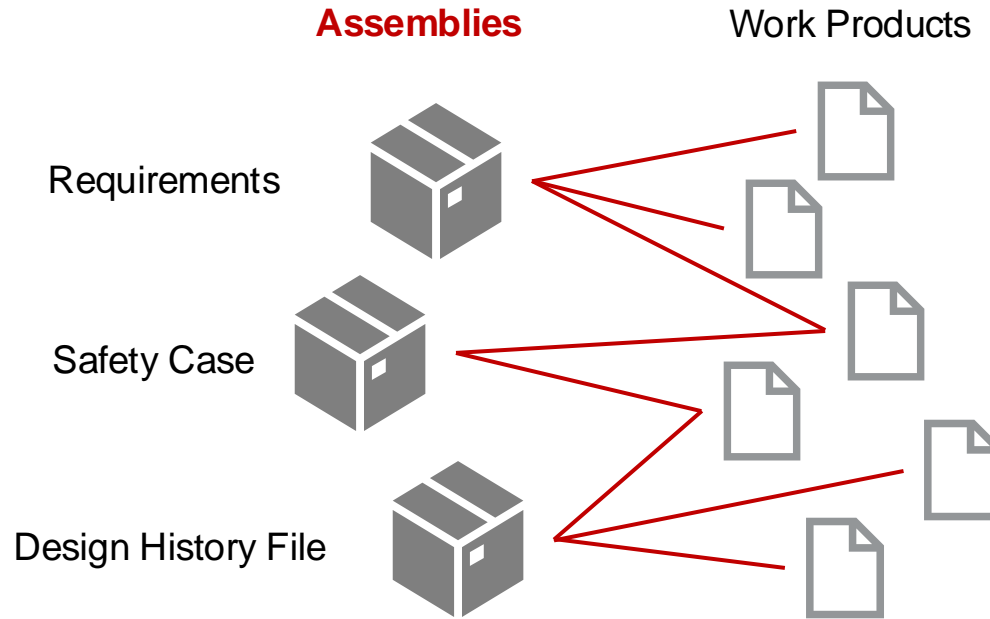
The Automotive Process Framework



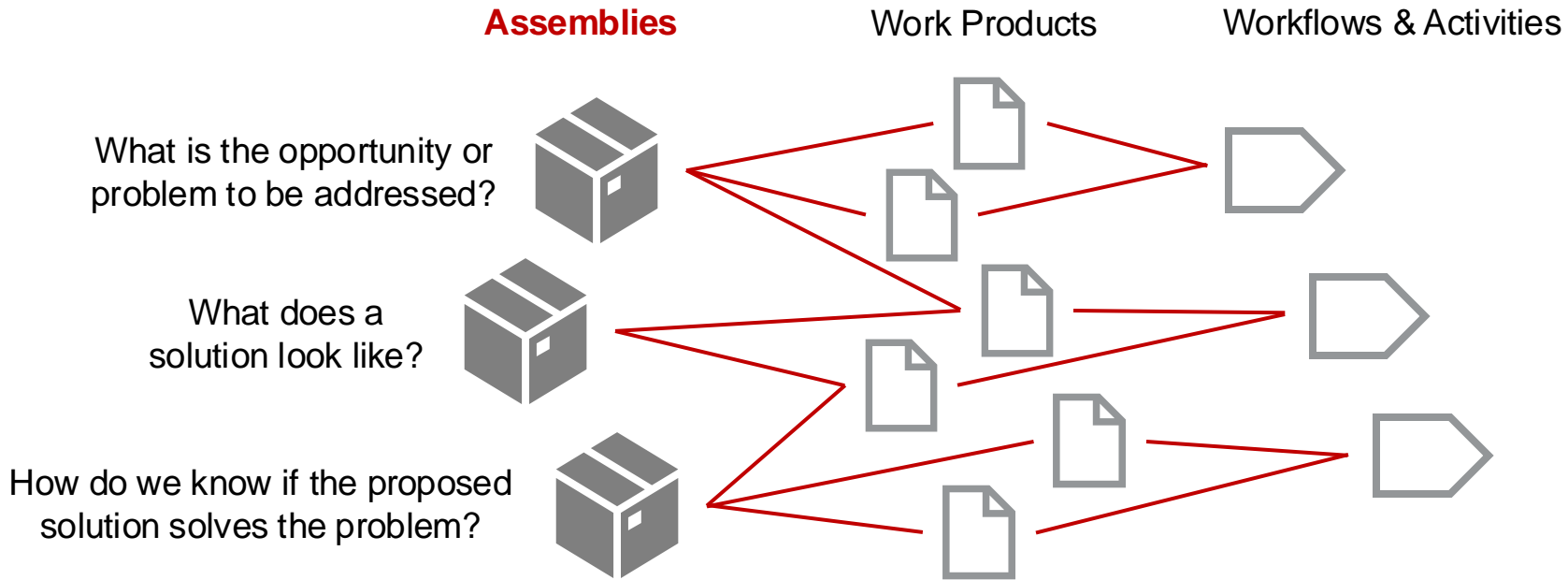
- Process templates for system, software, hardware and mechanical development
- Complete mapping to ISO 26262, ISO 21434, and Automotive SPICE® project scopes
- Templates, practice and checklists supporting ISO 26262
- Enhanced system and software development and cybersecurity guidance
- Support for Essential Scaled Agile Framework (SAFe)

Develop automotive engineering processes with reduced time and cost

Focus on impact through work product orientation



Focus on impact through work product orientation

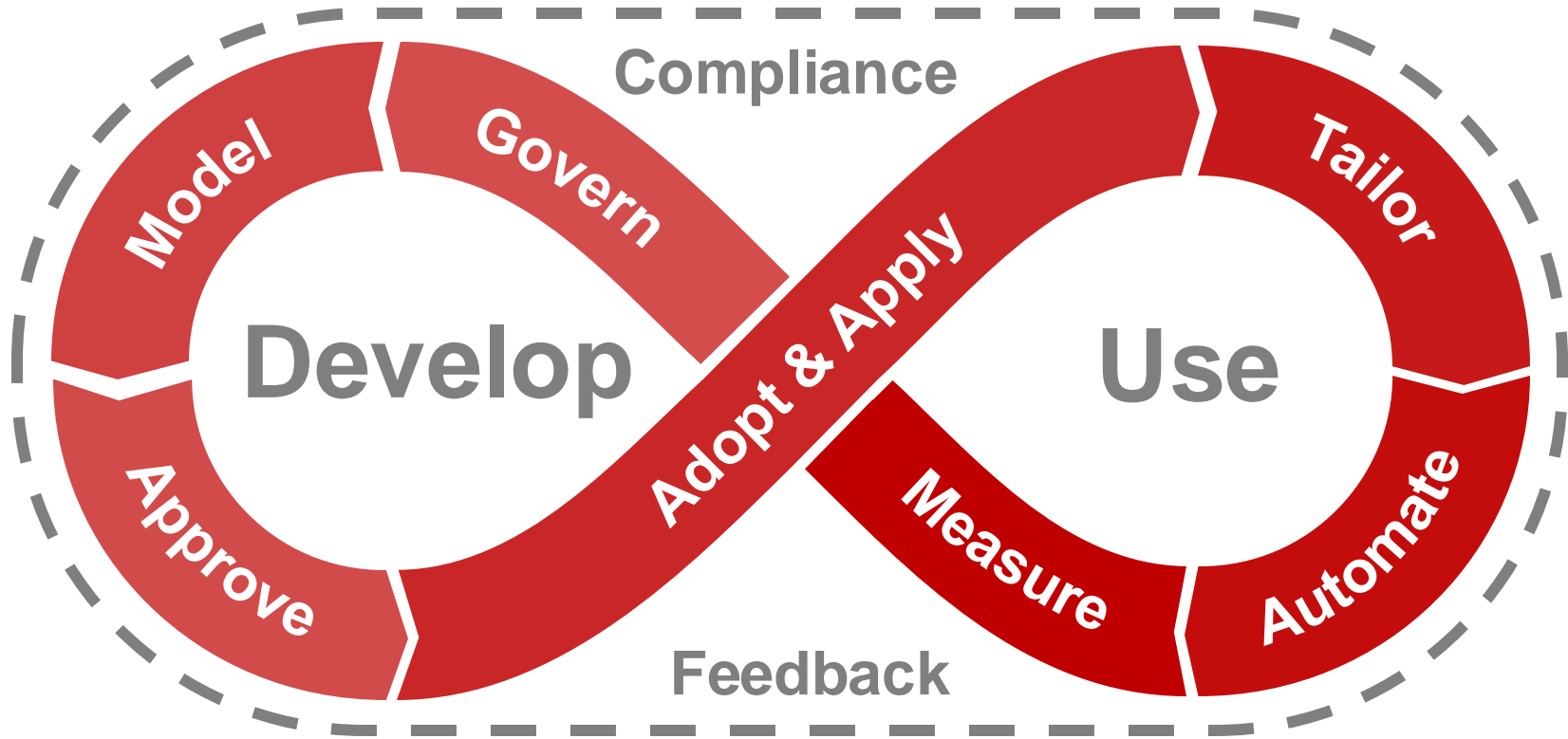


Work product orientation is already supported by unified configuration metamodel; it only requires a change in process development strategy



stages

Process management lifecycle

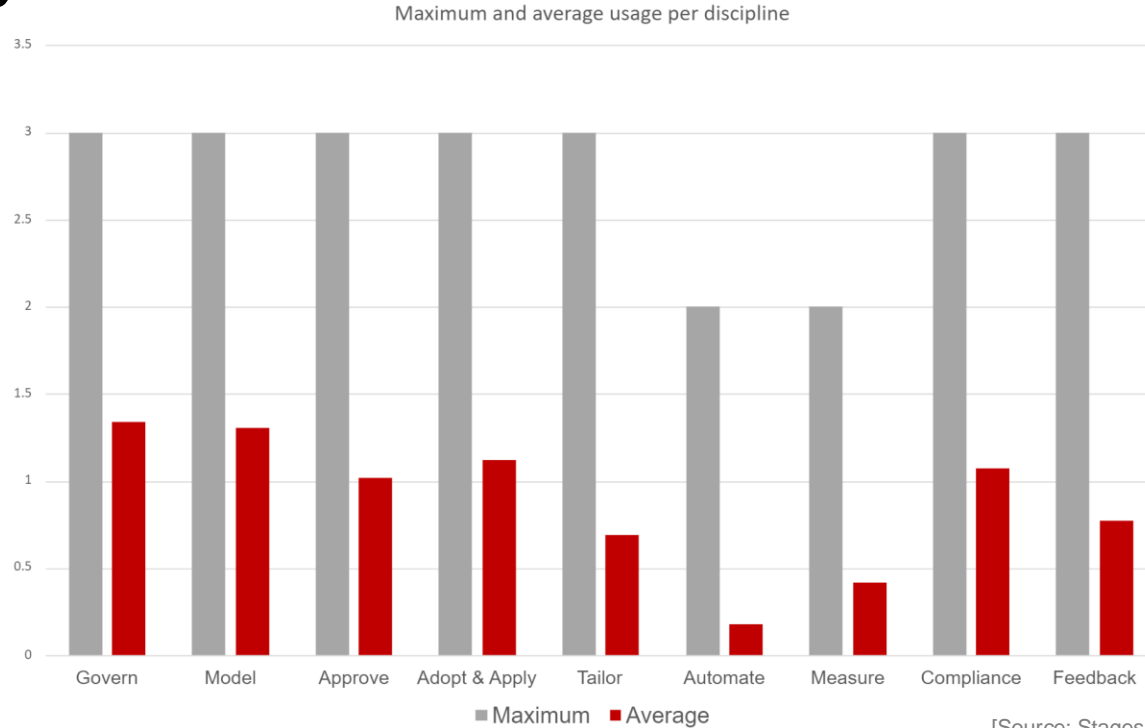


Internal process management survey

- 4 different usage levels
 - None: not done
 - Performed: is done, but not consistently, so results are unpredictable
 - Planned/organized: consistently done with predictable results
 - Standardized: consistently done in the whole target organization with predictable results
- Evaluation was done by Stages consultants

Usage Level	Govern	Model	Approve
L0: None	none or largely unplanned	uncoordinated	no approval
L1: Performed (it is done, but not consistently, so results are unpredictable)	business goals and target compliance are defined	basic modeling guidelines exist	manual reviews are done
L2: Planned/organized (consistently done with predictable results)	process architecture, process organization and rollout/release plan exist	process version concept exists	
		process interfaces are being discussed	
L3: Standardized (consistently done in the whole target organization with predictable results)	process architecture is consistent	modeling guidelines are mostly adhered to	structured reviews and approval using automations

Survey results



[Source: Stages consultants]

High impact areas have lower usage

Priorities for the Stages roadmap

Improve process impact

- Build and enhance features for process execution
- Improve process usage in other tools

Improve process understanding

- User experience
- User interaction

Improve process management efficiency

- Process modelling supported by AI
- Focus on business results via Stages Managed Service

Stages roadmap

We build

Now

States & quality level templates

Simplify the consistent use of states and quality levels for work products

7.11

Processes via Generative AI*

Generate and adjust descriptions for workflows, activities, roles, work products, tools. Generate workflow skeletons for specific processes.

7.11

Document management in PTC Codebeamer

Access project instance work products in PTC Codebeamer through Stages

7.11

Process execution in JIRA Cloud and IBM ELM

Create relevant process activities and work products as issues in JIRA Cloud and IBM ELM (RTC) 7.0.3

7.11

Automotive Process Framework

Support for Essential Scaled Agile Framework (SAFe),
Support for Automotive SPICE 4.0

Now

We discover

Next

We consider

Later

Creator

Consumer

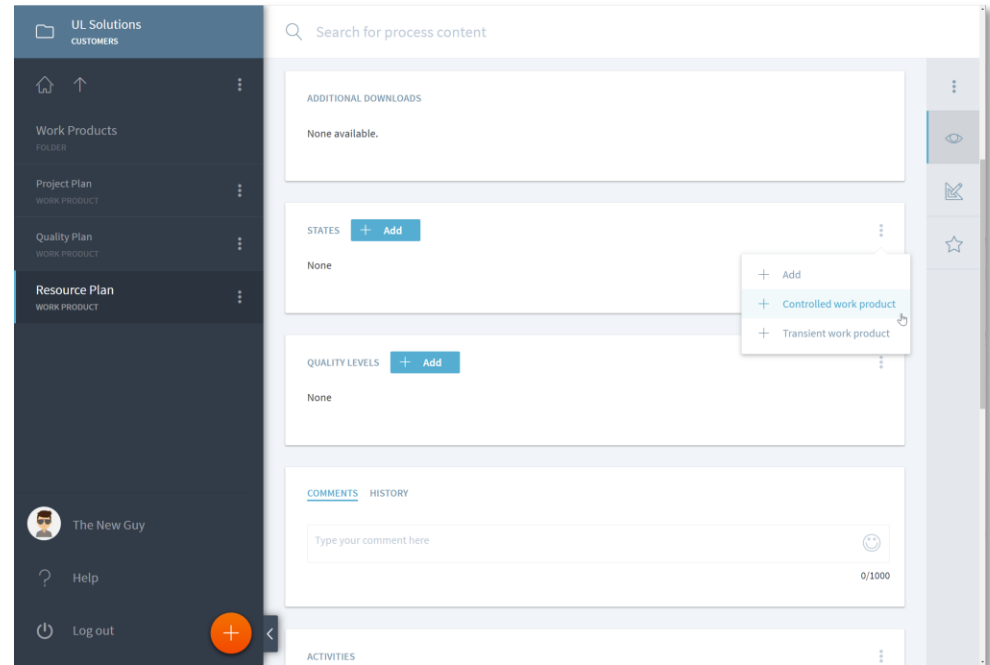
Delivery

Content

* Only available on Managed Service

Selected other Stages 7.11 Highlights

- Reminders and escalation support for process release automations
- System for Cross-domain Identity Management (SCIM) support
- Various user interface improvements
 - Process participant menu easier to find
 - Process interfaces menu redesigned
 - Search results contain element path
- Admin and security
 - Improved login page for Single Sign On
 - Multifactor authentication for local accounts
 - „fire once“ admin jobs



Stages roadmap

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Now

We discover

Next

Improve end user navigation

Reduce efforts for end users to find processes relevant for them

Provide conversational interface

Allow end users to ask natural language questions to find relevant process content faster

Speed up process understanding

Reduce time for end users to orientate within relevant process content, e.g. by reducing clicks

Improve process filtering

Speed up understanding for end users about relevant processes, e.g. by filtering for end user context or use cases

Automotive Process Framework

Support for SOTIF (Security of the Intended Function), APQP 3rd Ed, Automotive Standard Lifecycle

Oct

We consider

Later

Improve process guidance

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

Extend search scope

Allow end users to find information in guidance files by indexing DOC, PPT, PDF, etc.

Process content for AI LLMs

Feed process content into customer-specific large language models or other AI support databases to enable AI based access to engineering data

Stages 7.11 is planned for October 2024

Creator

Consumer

Delivery

Content

* Only available on Managed Service

Our focus is on...

1 Process understanding

2 Process execution

3 Responsible AI

Thank you!

