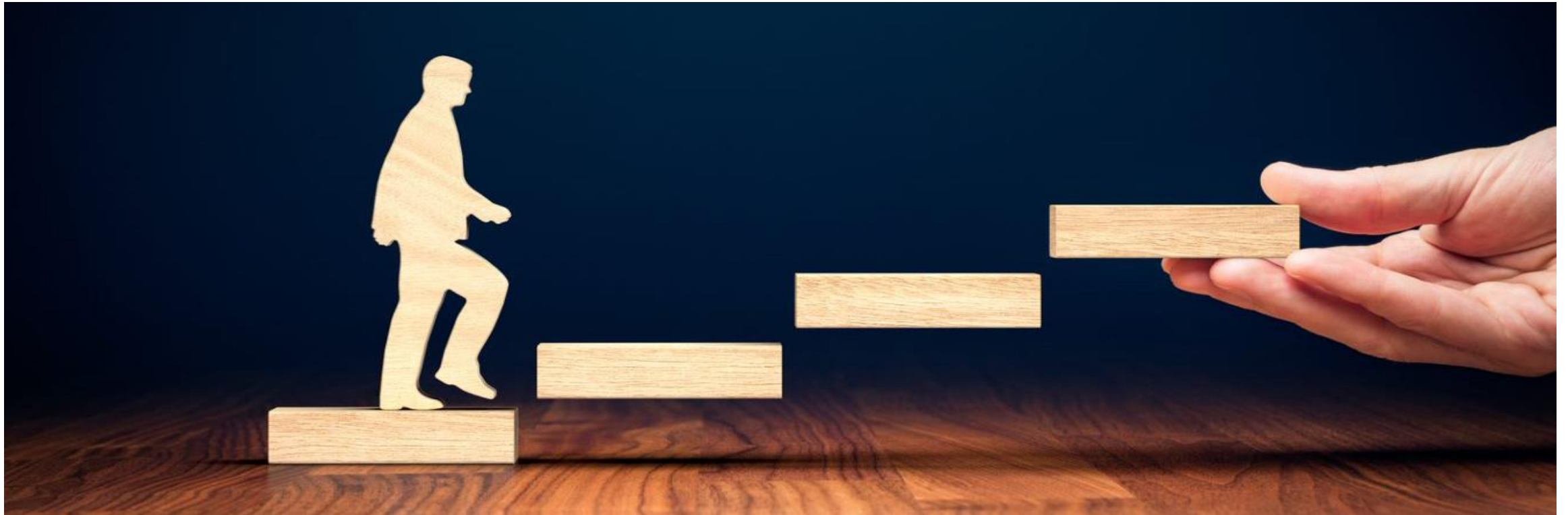


Facts about VDA QMC Working Group 13



intacs AT/BG/CZ/HR/HU/SI/RS Regional Event in Budapest, 14-15.05.2025

Introduction of Speakers

Balázs Harman



- ❑ AK 13 since Q1 2023
- ❑ Valeo GmbH – Group ASPICE Manager
- ❑ Intacs™ Principal assessor
- ❑ Master of Science in Technical Informatics from Technical University of Budapest



Attila Fehérvári

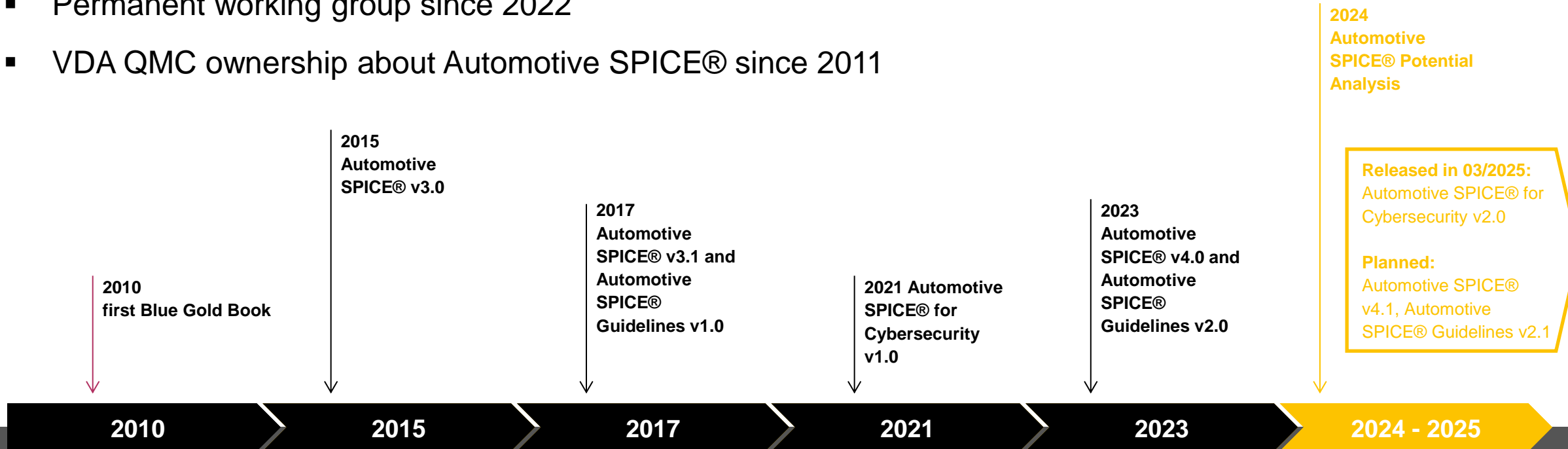


- ❑ AK 13 since 2020
- ❑ SANEON GmbH – Senior Consultant
- ❑ Leader of the Intacs™ Hardware SPICE workgroup
- ❑ Intacs™ Principal assessor & Instructor for provisional level
- ❑ Dipl Ing(FH) in Software and Systems Engineering from Dennis Gabor University of Budapest

Working Group 13

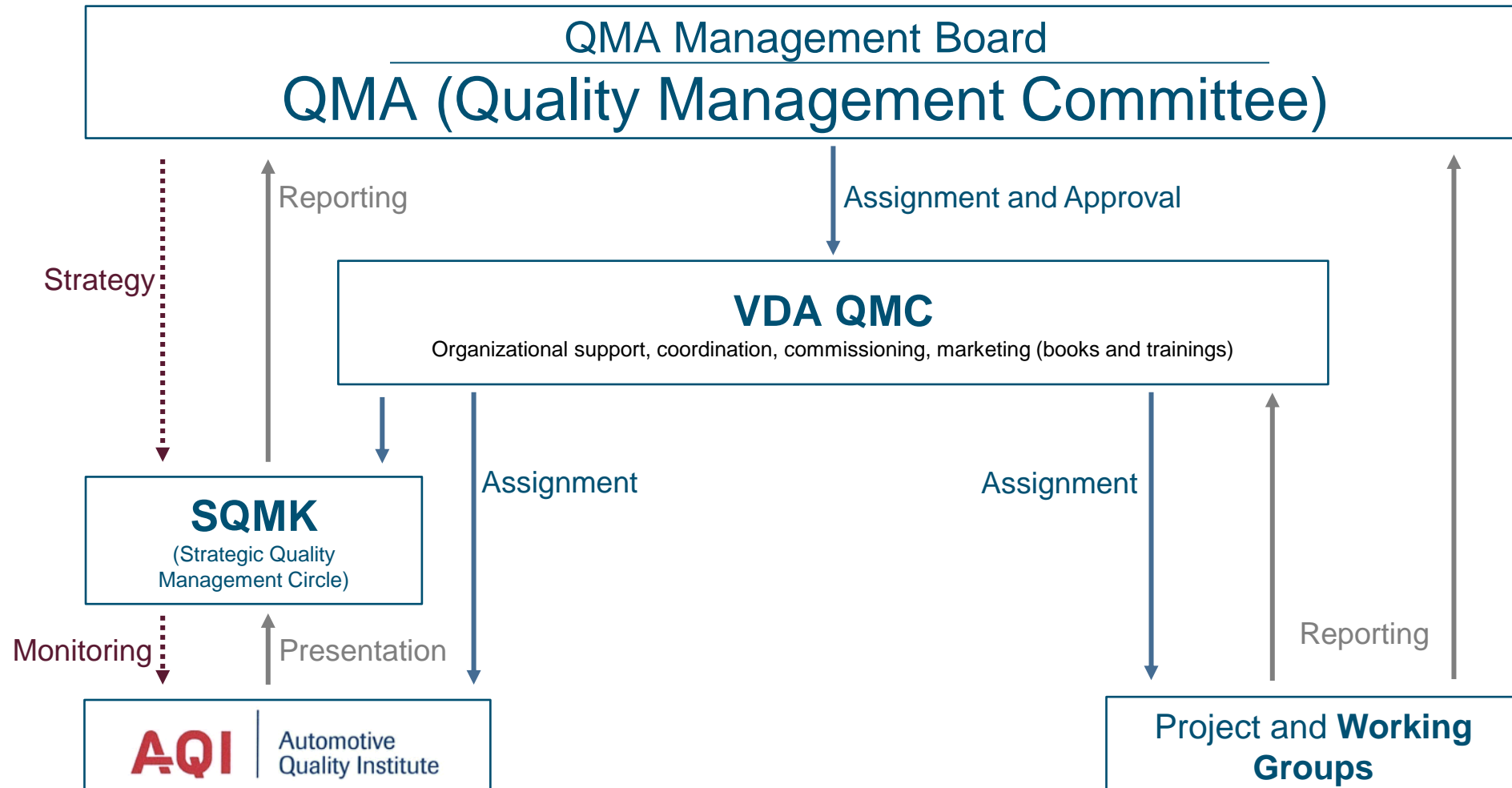
A Short History

- WG13 founded 2001
- Periods of working with limited duration (2001 – 2004; 2006 – 2010; 2011 – 2018; 2020 – 2022)
- Permanent working group since 2022
- VDA QMC ownership about Automotive SPICE® since 2011



Quality-related work in VDA

Structure of quality related working groups in VDA QMC



VDA QMC Working Group 13

Collaboration and work split

intacs.info
International Assessor Certification Scheme

- Alignment on procedures for
 - Training and certification
 - Maintaining assessor competence



Working Group 13

- Regular Exchange
- Review of Draft versions
- Collaboration in standardization
- Conferences

SWQ Advisory Board China

Responsibility and Publication

Support in slw related topics

- Automotive SPICE PRM/PAM
- Automotive SPICE Guidelines
- Automotive SPICE for Potential Analysis
- Automotive SPICE for Cybersecurity

Results from Studies



Project Groups
(limited duration)

AQI Automotive Quality Institute

Projects

Working Group 13

WG13 – Way of Working

Head of WG13: Albrecht Wlokka (Robert Bosch GmbH), deputy Dirk Hamann (Schaeffler AG)

Support VDA QMC: Teresa Müller-Ott; Bernhard Herzog; contact info@vda-qmc.de

16 Core Members (OEM, Tier 1, Tier 2+)

- Regular participants in WG13 meetings
- Continuously keeping Automotive SPICE up-to-date
- Supporting the VDA QMC project and working groups in software related topics (e.g. VDA2)
- Collaboration and alignment with relevant stakeholders (e.g. AQI, intacs®)



Core team

- Audi
- BMW
- MAN
- Mercedes-Benz
- Opel
- VW
- Robert Bosch
- Brose
- Continental
- Forvia
- Infineon
- Magna
- Schaeffler
- Valeo
- Webasto
- ZF

Expert team

- Audi
- BMW
- Cariad
- Mercedes-Benz
- VW
- Robert Bosch
- Continental
- Forvia
- Magna
- Saneon
- Schaeffler
- UL Solutions

15 Supporting Experts

- Specialists in particular engineering aspects
- Will be involved on demand in particular working groups



Working Group 13

Tasks, Authorities and Responsibilities

- WG13 is the only authority to maintain Automotive SPICE®
- WG13 decides on new models within the scope of Automotive SPICE®
- WG13 decides on extensions of Automotive SPICE®
- WG13 reviews, and provides input for, training materials for Automotive SPICE®
- WG13 is worldwide in contact with Automotive SPICE® stakeholders to keep it updated



WG 13 participants on VDA SYS conference 2024

Follow us on LinkedIn



VDA AK13 Automotive SPICE®

The VDA Working Group 13, board of authors of Automotive SPICE® and the Automotive SPICE® Guidelines

Motor Vehicle Manufacturing · 621 followers



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AI Engineering Tools and Automotive SPICE®
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[#AutomotiveSPICE](#) [#Quality](#) [#AI](#) [#MachineLe](#) ...more



EU AI Act and Automotive SPICE®
VDA AK13 Automotive SPICE®

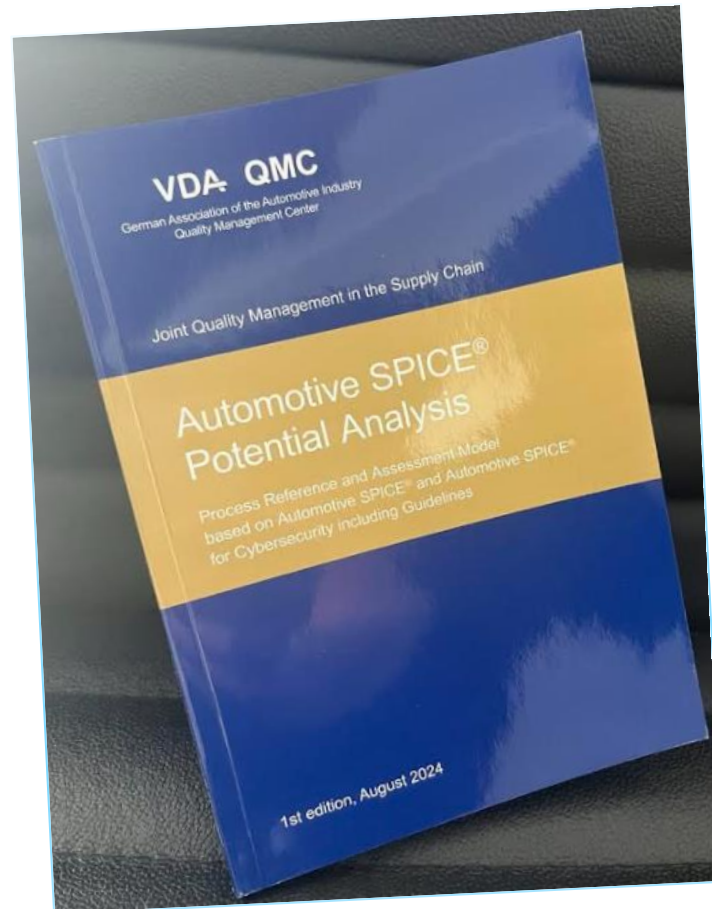
Some of the upcoming topics

- Automotive SPICE v4.1 and Guidelines V2.1
- Adaptations for „post-SOP“ activities and SDV:
for sure ASPICE can be used after SOP & for non-embedded
- Strengthen collaboration with Cybersecurity AK's &
VDA SW Quality Advisory Board China
- VDA Automotive SYS Conference 06/2025 Berlin ([Teaser](#))
 - [AK13 presentation](#): Automotive SPICE and the future of automotive software-based systems
 - [AK13 workshop](#): ASPICE 4.0 – 18 Months later



Automotive SPICE® Potential Analysis (ASPICE PoA)

intacs regional SPICE event in Budapest 14-15. May 2025



What to expect and what is our goal

- What is the motivation for an Automotive SPICE Potential Analysis (ASPICE PoA)
- What are the characteristics of ASPICE PoA
- How is ASPICE PoA structured and what is the content
- Further use cases, experiences and next steps

Potential Analysis - DIY

How to create an own Potential Analysis

Various Tier-1 and OEM faced the challenge of reviewing new, innovative companies with Software content. Reduce the (ASPICE) content:

- Take the VDA scope as framework, set time limit
- Inspect every reference process for **more or less important** practices – cherrypick
- Copy/paste practices, guidance, questionnaire into an own spreadsheet.
- Review with other assessors, mix in company policies, align on rating(s) and result.

“Hotspot” analysis example for relevant content

MAN.3									
BP1	BP2	BP3	BP4	BP5	BP6	BP7	BP8	BP9	BP10
11	11	9	16	14	8	15	16	5	10
10%	10%	8%	14%	12%	7%	13%	14%	5%	9%
6	5	8	2	4	9	3	1	10	7

SUP.8								
BP1	BP2	BP3	BP4	BP5	BP6	BP7	BP8	BP9
10	8	9	12	12	12	7	8	7
15%	10%	12%	17%	16%	17%	9%	10%	10%
4	6	5	1	3	1	9	6	8

Potential Analysis - DIY

Pros and cons of DIY solution

Pro	Cons
Company need is covered	Gaps in consistency. Everyone is doing differently → suppliers faced with different methods
Quick and effective solution	Result is not “official” and can not be shared or reused (valid only company internal)
Assessors can be used	No evidence logs for assessors
Very little training need	Reasons for model often not documented – argumentation vague and difficult. Different “interpretation” possible.
Flexible	Tooling and model maintenance effort

DIY solutions
proved very
effective in
practice!

ASPICE PoA
goal is to solve or
reduce the cons!

Motivation

ASPICE Potential Analysis serves multiple purposes

- Transformation in the automotive industry leads to **strongly evolving collaboration landscape**
- Companies from **consumer electronics expand towards automotive**
- Established suppliers buy or build up **new development centers**
- Necessity to assess potential partners **before nomination/collaboration** in a shortened but **systematical manner**
- OEMs and Tier1s have already developed corresponding methods

Considering multiple use cases:



Exemplary project

Assess comparable project and current processes



Golden sample

Check planned way of working



Shortened gap analysis

Identify main pain points to be solved immediately



Preparation for a full assessment

Give confidence on established methods

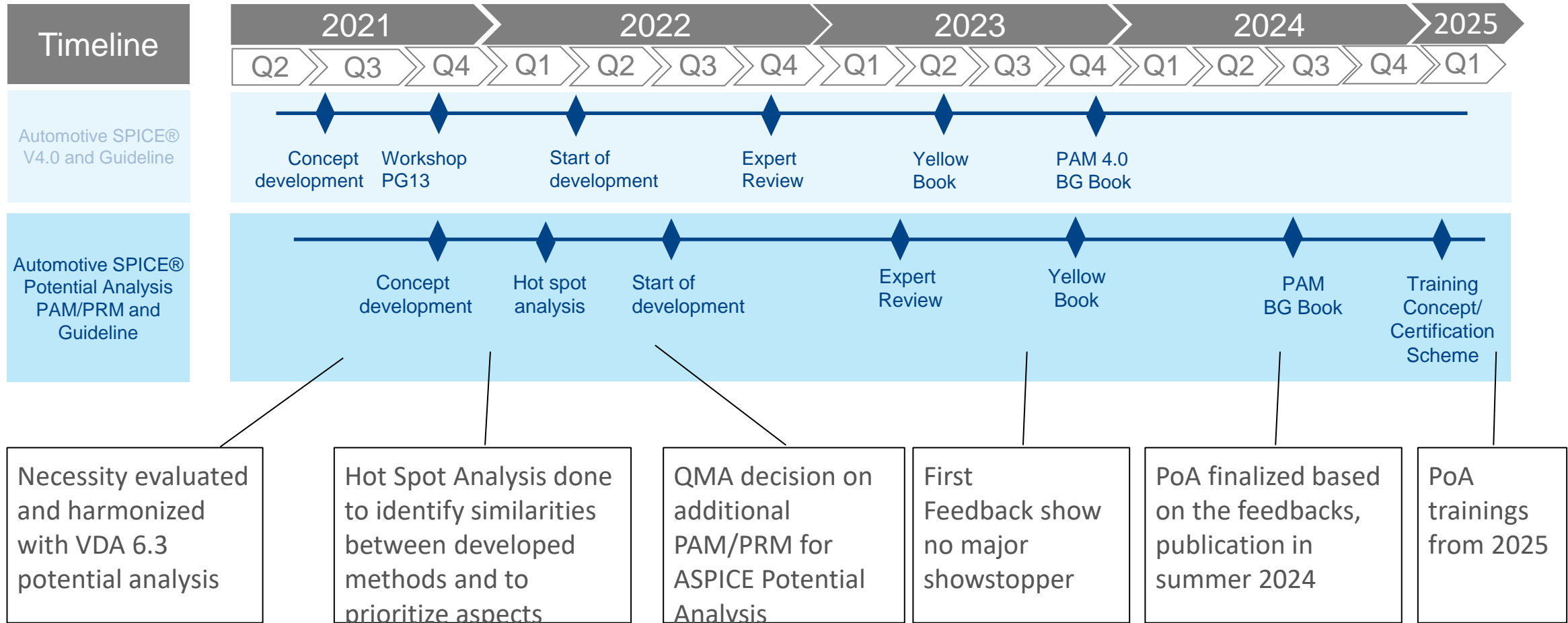


Improvement starts with PoA

No re-PoA, improvements checked in normal ASPICE assessment

Major Milestones for Potential Analysis development

Roadmap



Characteristics of "ASPICE Potential analysis"

Purpose



Omitting aspects of Automotive SPICE is a delicate task.
Major decisions are reasoned within the PAM/PRM. Rationales give context and allow traceability

Characteristics of "ASPICE Potential analysis"

Purpose



Verify, long
term success

Explore
and filter

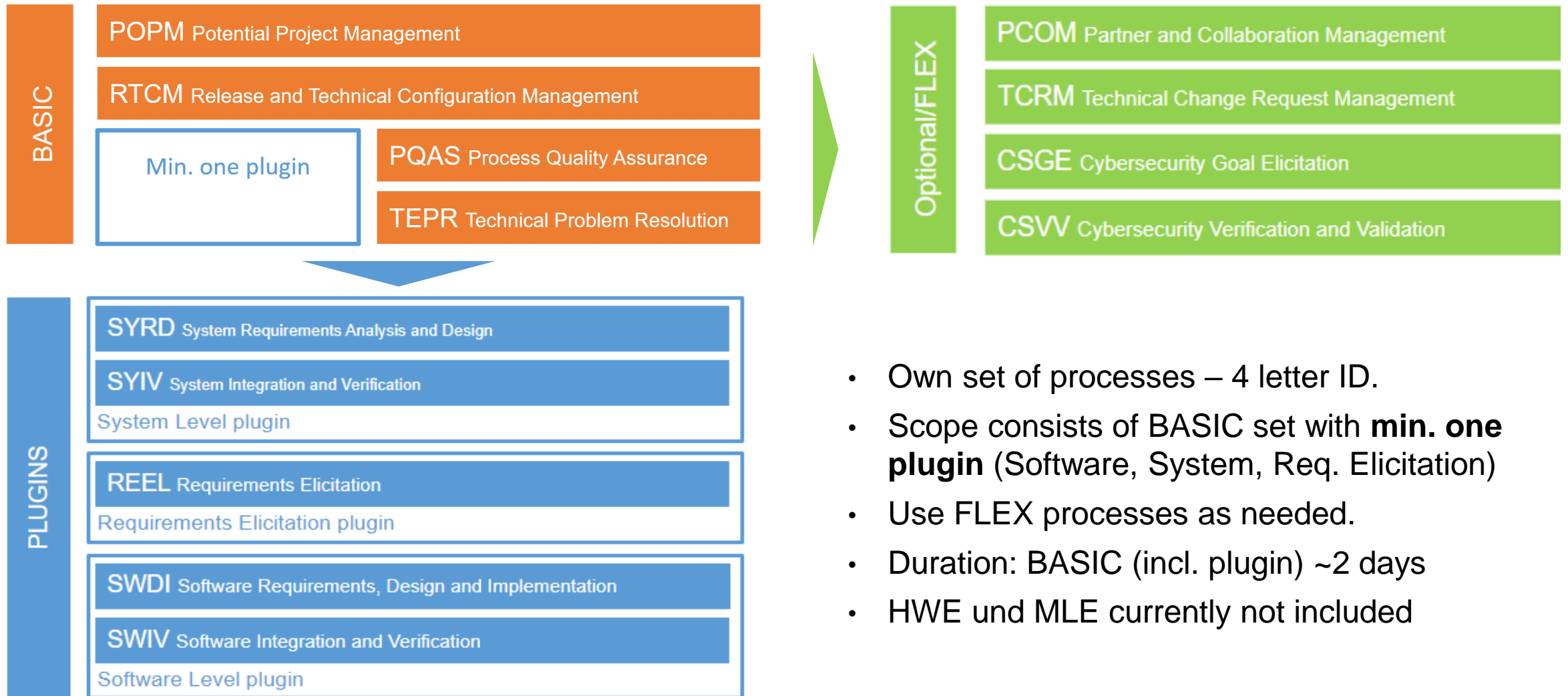


- Project and organizational unit
- Capability Level 1 – Level 5
- Improved development and management
- Long term success

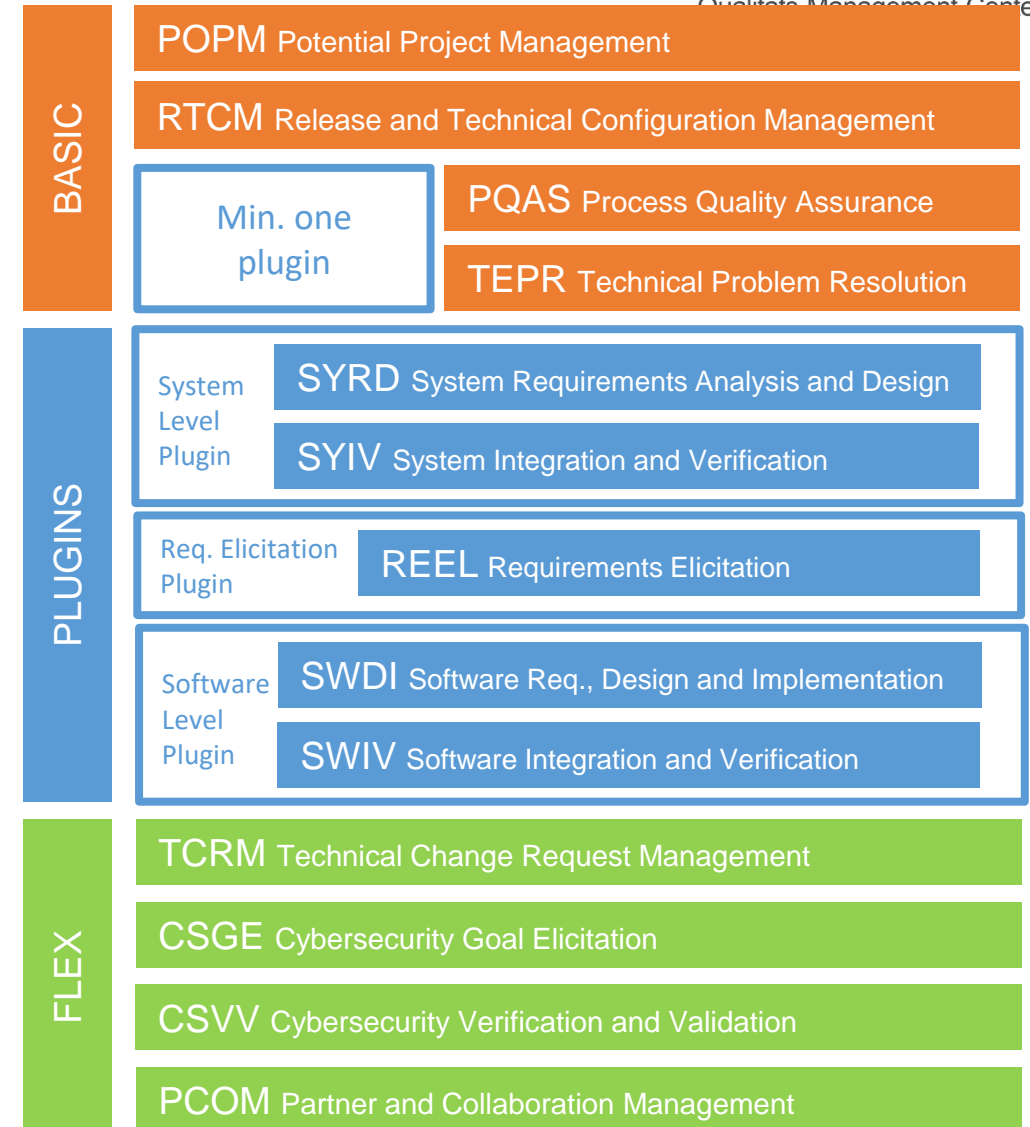
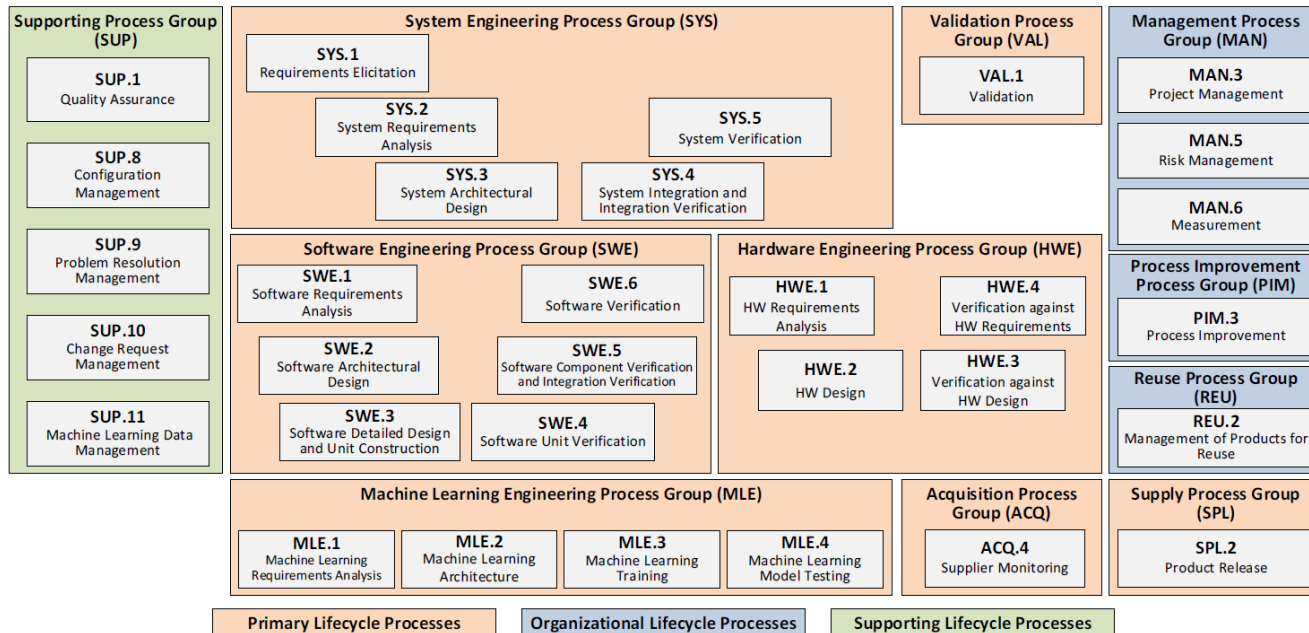
- Project level (Level 1) only
- Reduced content and duration
- Explore candidates for opportunities of collaborations incl. small companies, start-ups
- Use for risk evaluation
- Get familiar with ASPICE practices
- Own results, does not mix with ASPICE results

ASPICE PoA structure and content

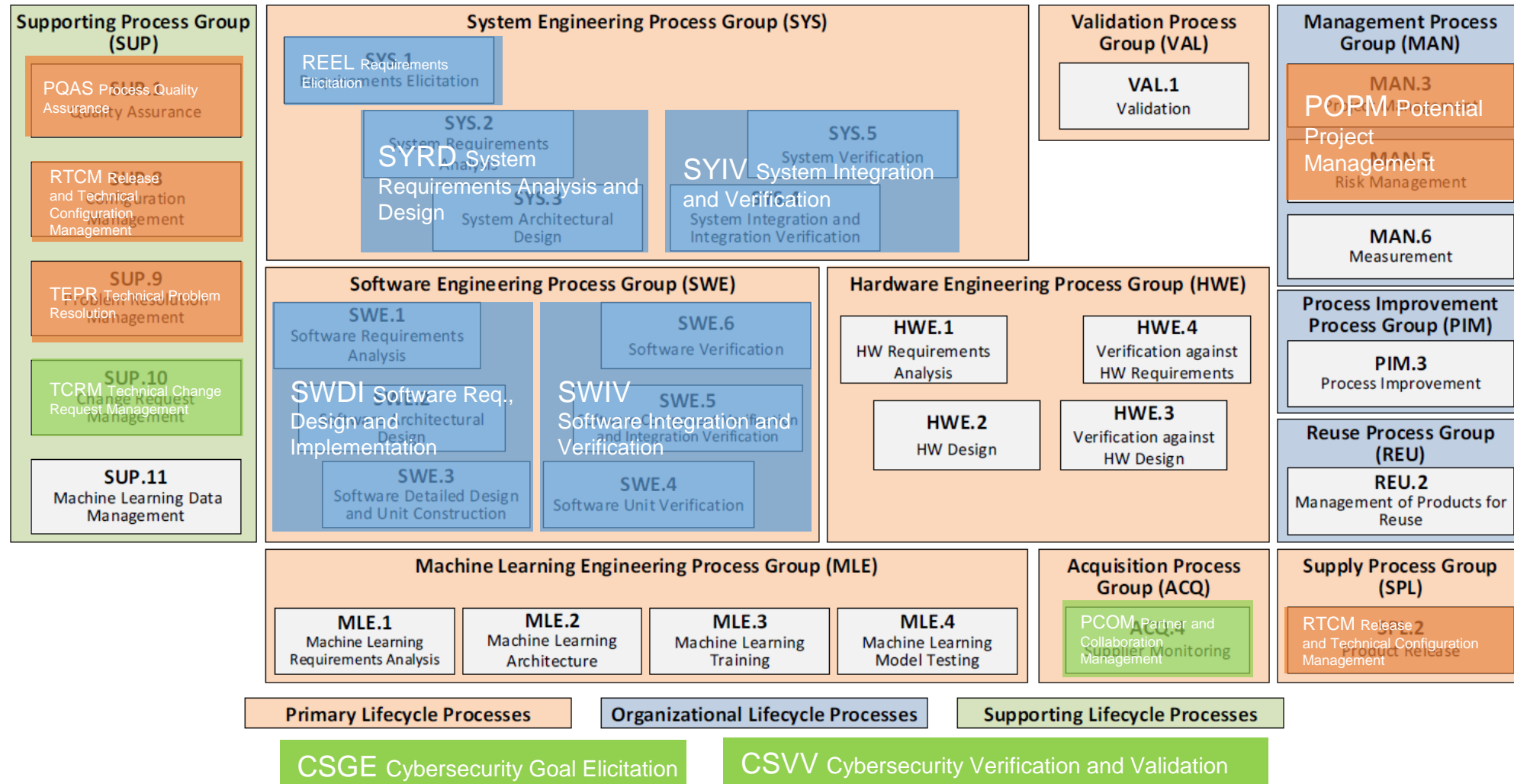
Building blocks "ASPICE Potential analysis"



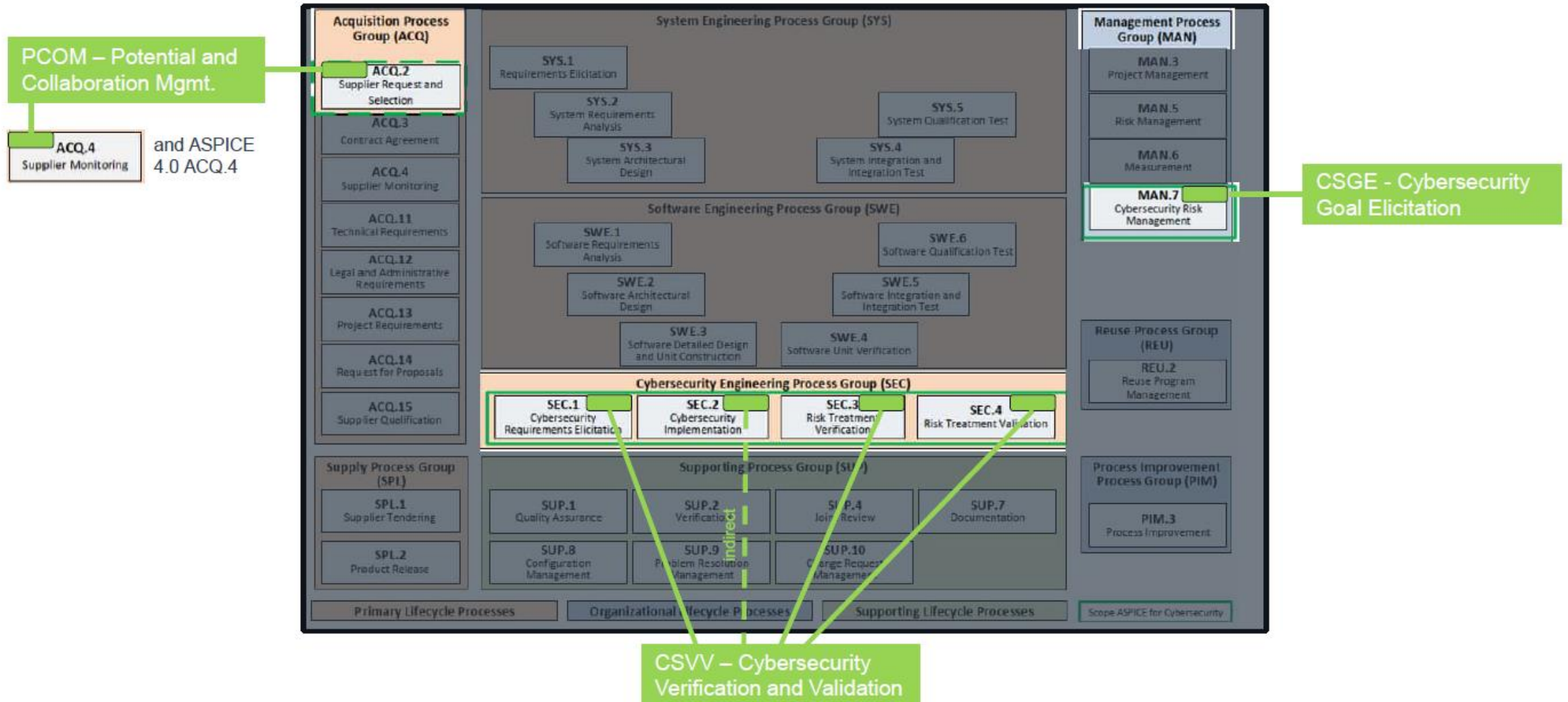
ASPICE PoA structure and content



Mapping of ASPICE 4.0 to ASPICE Potential Analysis

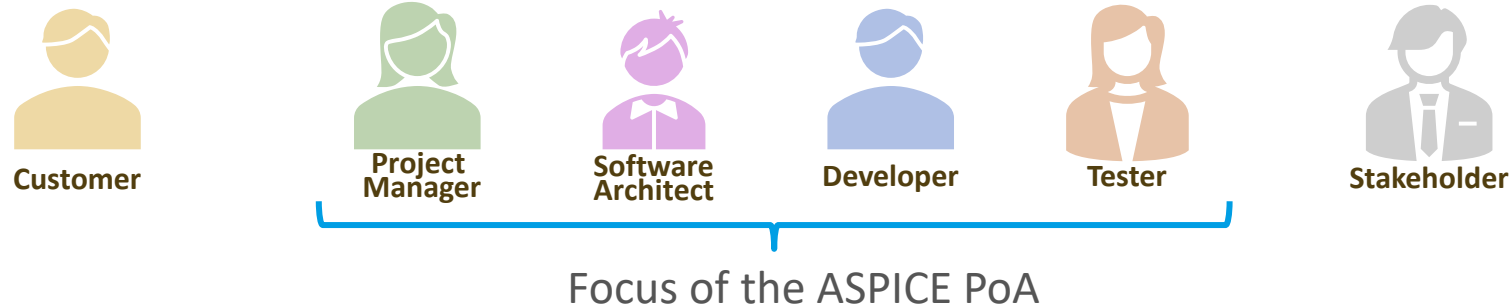


Mapping of ASPICE Cybersecurity to ASPICE Potential Analysis



ASPICE PoA structure and content

Focus on core processes



ASPICE PoA has focus on engineering, technical area and limits the organizational aspects to a bare minimum.

- Organizational aspects consideration is mainly at Project management.
- Configuration Management and Problem resolution restricted to technical parts.

Benefit: reduced audience and stakeholders that are sometimes far from technical team and difficult to bring into assessment scope.

Rationale „**Organizational aspect**“:
ASPICE PoA is limited for the prioritization of technical and engineering aspects.....
...exclude interfaces to stakeholders such as marketing, human resources management, competency management and others that often are in shared groups within the organization...

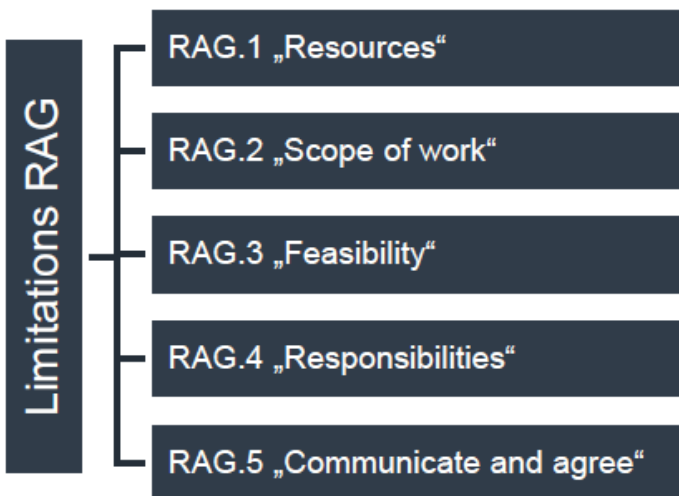
ASPICE PoA structure and content

Limitations as Rationals

Specific interpretations and limitations described as Rationals:

RAG → **R**ationales of **g**eneric character reflecting specific circumstances for **all** processes

RAP → **R**ationales of **p**rocess specific character, which affect **one or a few** processes only



Limitations RAP → **R**ationales of **p**rocess specific character, which affect **one or a few** processes only

RAP.1 - „Process assurance only“

RAP.9 - „Configuration items“

RAP.17 - „Monitoring changes of cybersecurity“

RAP.2 - „Organizational aspects“

RAP.10 - „Baseline completeness and consistency“

RAP.18 - „Vulnerability Analysis“

RAP.3 - „Risk identification“

RAP.11 - „Delivery“

RAP.19 - „Cybersecurity Risk Treatment Implementation“

RAP.4 - „Identification of problems“

RAP.12 - „Access rights“

RAP.20 - „Obtain stakeholder expectations and requests“

RAP.5 - „Urgent resolution and alert“

RAP.13 - „Partner and Collaborations“

RAP.21 - „Prioritization of requirements“

RAP.6 - „Tracking problems to change requests“

RAP.14 - „Quotation and contracts“

RAP.22 - „Select verification measures“

RAP.7 - „Technical changes only“

RAP.15 - „Scope of cybersecurity“

RAP.23 - „Cross relationships“

RAP.8 - „Review of implementation
„Approval before implementation“

RAP.16 - „Prioritization of threats“

ASPICE PoA structure and content

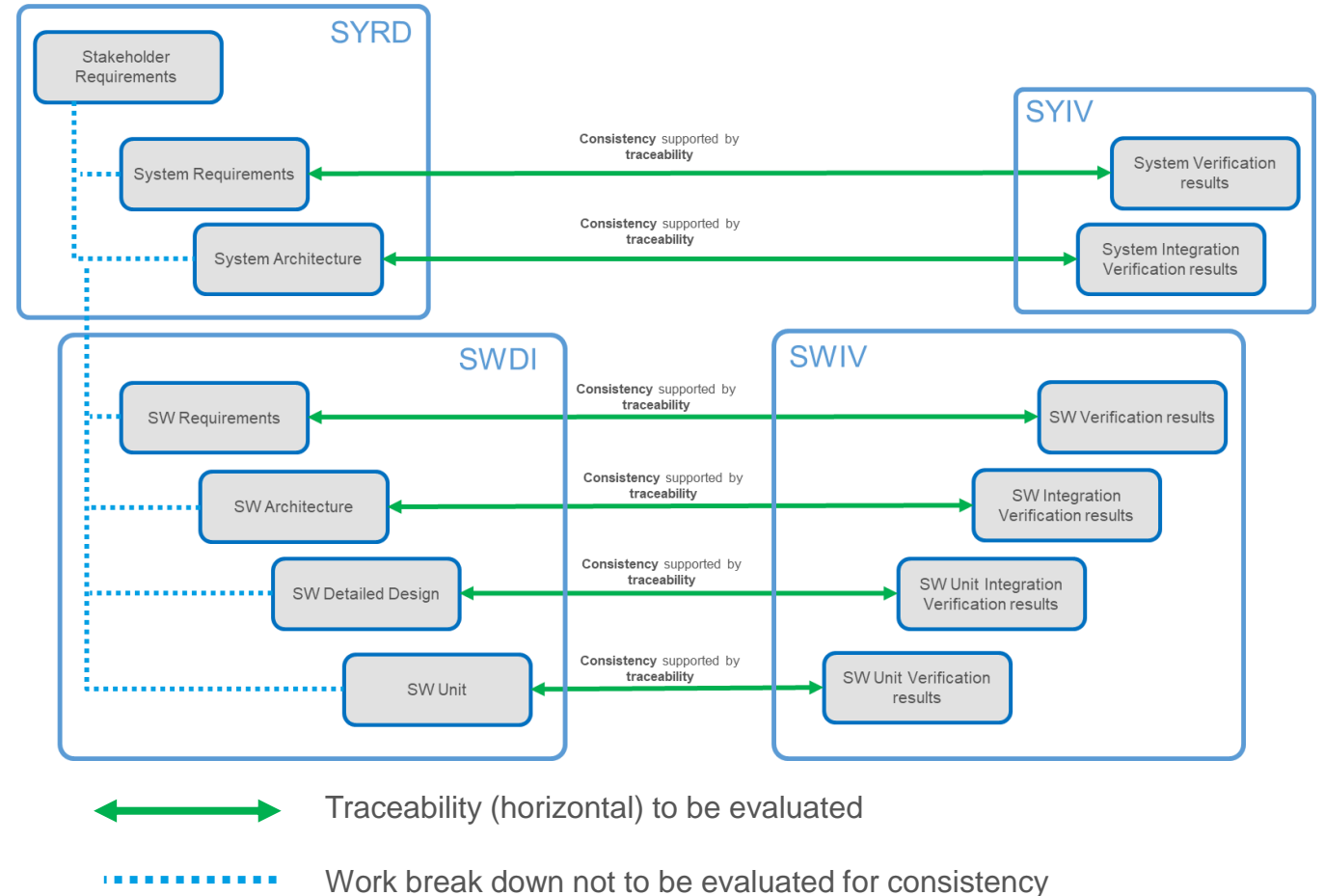
Traceability concept within plugins for System and Software

Consistency and traceability is a major element and benefit in ASPICE.

ASPICE PoA intends to keep this strength, while still must reduce the effort and depth on it.

The concept is based on horizontal traceability for consistency.

Vertical traceability is not explicitly measured, enforced through the work breakdown.



ASPICE PoA structure and content

Design and ASPICE 4.0 new elements

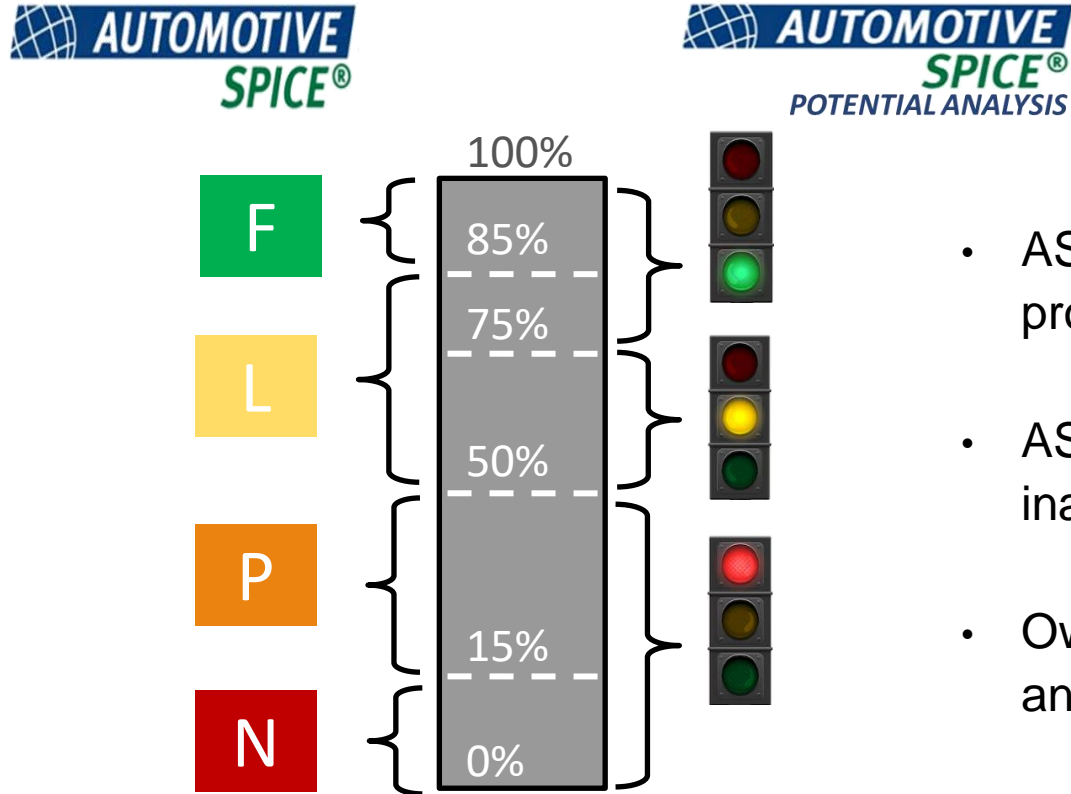
The ASPICE PoA is developed at the same time as ASPICE 4.0 and therefore reflects the same terminology, concepts and the same look and feel..

Process ID
POPM
Process name
Potential Project Management
Process purpose
The purpose is to identify and manage activities of an exemplary project to develop a product, manage risks and monitor organizational problems related to the project.
Process outcomes
<ol style="list-style-type: none"> 1) Activities are identified, sized, and estimated 2) Technical feasibility of the activities is evaluated 3) Interfaces of the project are identified and monitored 4) Schedule for execution of the project is developed and monitored 5) Progress of the activities is reviewed 6) Risks are managed continuously 7) Organizational problems related to the project are recorded, analyzed, and monitored

Potential Project Management	Outcome 1	Outcome 2	Outcome 3	Outcome 4	Outcome 5	Outcome 6	Outcome 7
Output Information Items							
08-56 Schedule				X	X		
14-10 Work package	X	X			X		
15-06 Project status				X	X	X	X
15-08 Risk analysis						X	
15-09 Risk status						X	
08-55 Risk measure						X	
13-07 Problem							X
15-12 Problem status							X
14-02 Corrective action				X	X		
14-50 Stakeholder groups list			X				
Base Practices							
BP1: Identify, define, and estimate activities	X						
BP2: Ensure technical feasibility	X	X					
BP3: Identify and monitor project interfaces			X				
BP4: Define and monitor project schedule				X			
BP5: Review progress of the activities			X	X	X		
BP6: Manage risks						X	
BP7: Analyze and monitor organizational problems to the project							X

ASPICE PoA structure and content

Measurement framework



- ASPICE PoA uses traffic light logic (RGY) as the basis for process evaluation in the process profile
- ASPICE PoA can only reach level 1, higher levels are inappropriate because of the reduced content
- Own ASPICE PoA measurement framework, avoiding mixing and confusion with ASPICE assessment results.

ASPICE result \neq ASPICE PoA result

ASPICE PoA structure and content

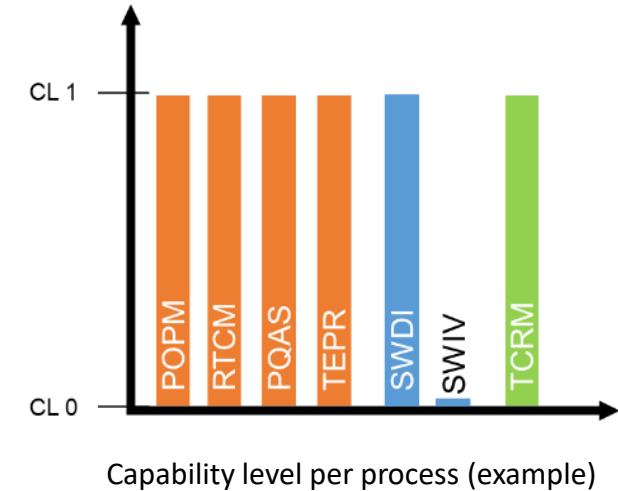
Overall result calculation

It is intended to have a "summary" result recommendation based on the Assessment capability profile.

This should respect the BASIC scope and plugins and be a handy value to exchange with stakeholders, for example a sourcing group.

The concept of such an overall calculation is not intended to be fixed the ASPICE PoA. The organizations can define based on their needs and priorities.

Some exemplary results of an Automotive SPICE Potential Analysis see on the left side.



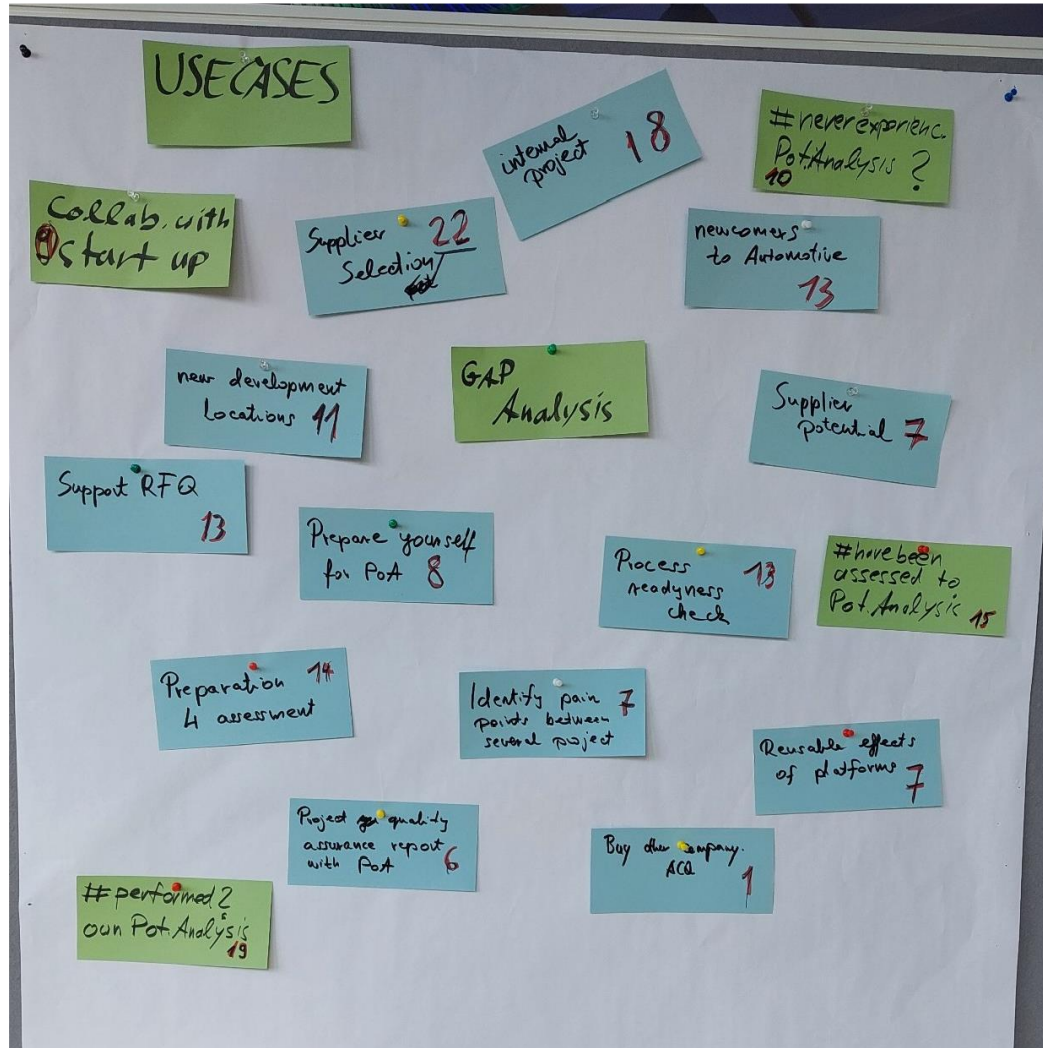
Process ID	PA 1.1	CL1
POPM	Green	Yes
RTCM	Green	Yes
PQAS	Yellow	Yes
TEPR	Yellow	Yes
SWDI	Green	Yes
SWIV	Red	No
TCRM	Yellow	Yes

Process attribute rating and capability level achievement per process (example)



**What are additional possible use cases for the ASPICE
Potential Analysis?**

Workshop: Use Cases – VDA SYS 2024 results



Use case	#	%
Collaboration with startups	9	20%
Supplier selection	22	56%
Internal project	18	40%
Newcomers to automotive	13	32%
New development locations	11	28%
Support RFQ	13	32%
Prepare for an assessment	14	35%
Project quality assessment report	6	15%
Merger/Aquisition	1	3%
Identify pain points/Gap analysis	7	17%
Process readiness check	7	17%
Reusable platform	7	17%



Experiences with ASPICE potential analysis

Summary



- Automotive SPICE® PoA support the evaluation of the capability of a potential collaboration or partnership (e.g. for supplier nomination)
- Automotive SPICE® PoA focus on Capability Level 1 – „Performed“
- Automotive SPICE® PoA is less time consuming than a full assessment (~ 2 days)
- Results from Automotive SPICE® PoA are comparable (due standardization, and trained assessors)
- Automotive SPICE® PoA focus on engineering, technical area and limits organizational aspects to a minimum

Outlook



Training is developed by intacs®, trainings starting End of April 2025!



Deployment of the new PAM and raising awareness to the community
(Conference + Gate4SPICE)

Thank you for your attention.

Do you have any questions?



Download link at VDA-QMC page:

<https://vda-qmc.de/automotive-spice/automotive-spice-veroeffentlichungen/>