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Automotive Skills Agenda - INITIATIVES

- High Level Group GEAR 2030 (2015 - 2017) - Final report on automotive competitiveness and sustainability
- New Skills Agenda for Europe (2016) with action The Blueprint for Sectoral Cooperation on Skills

DRIVES
Development and Research on Innovative Vocational Education Skills

Automotive Sector
(January 2018 – March 2022)

albatts
A Forum for Batteries Technology, Training and Skills

Batteries Sector
(December 2019 – November 2023)

- European Skills Agenda (2020) with action **Pact for Skills** (launched November 2020)

AUTOMOTIVE SKILLS ALLIANCE

www.automotive-skills-alliance.eu

Stolfa Jakub

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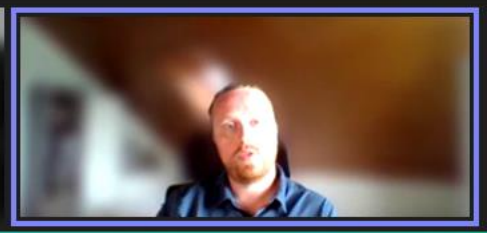
- IM Mandic, Irenka, External
- IM Meister, Irmtraut, External
- SM Meza, Selina [NDXG]



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DRIVES FRAMEWORK

Home
Training Courses
Skills and Competence
Job Roles
Tools
Wiki
About

Search for Training Courses | Search | Filter

Additional Options

Search By Competence Level:
Mechatronics System Simulation
Any

Online
Predictive Maintenance Expert
DRIVES Project
Free | Details

1 week / 16 h | Online
FH JOANNEUM
Electric Vehicles
FH JOANNEUM Gesellschaft mbH
500 € | Details

2 weeks | Online
Automotive Engineer
DRIVES Project
Free | Details

Online
Automotive Quality Engineer
DRIVES Project
Free | Details

Online
Automotive Mechatronics Manager - Introduction
DRIVES Project
Free | Details

Online
Cybersecurity Engineer
DRIVES Project
Free | Details

1 2

Apply | Clear

Sort: No Sorting
Provider: Any
Delivery Method: Any
Country: Any
Language: Any
Competence
Skill: Mechatronics System Simulation
Knowledge: Any
Job Role: Any
Domains
Qualification

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Milan Zorman, External

Stolfa Jakub

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Groher Patri...
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Stolfa Jakub
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Antonia De...
Tobias Zehe...
SE
Sherif ELTO...
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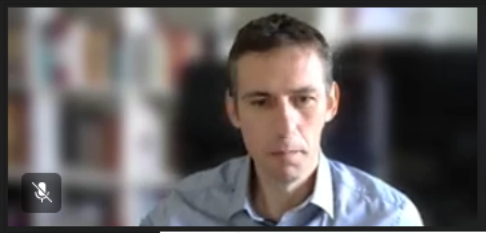

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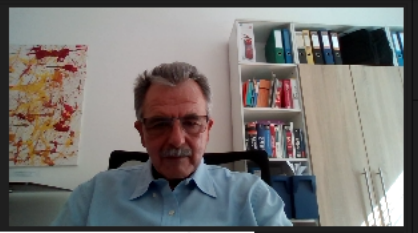

What is CYBERENG?
Certified Cybersecurity Engineer and Manager Course

- 2-year (2020-2022/23) Erasmus+ co-funded project
- Project aims to
  - **Define needs and training for cybersecurity engineer and manager (needed in Sys&SW&HW development of modern electronic automotive systems, V2X communication)**
  - Main outcome is to **develop training courses and material** for the **industry and universities**.
    - 2 – 5 days course
    - Including international certificate & Automotive Skills Alliance [illegible] badge
    - Course will be included in the university study & offered to in[illegible]

Georg Macher

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VSB TECHNICAL UNIVERSITY OF OSTRAVA

ISCN International Software Consulting Network

REALSECURITY

TU Graz

Elektrobit

AIT

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Georg Macher

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SJ Stolfa Jakub

MZ Milan Zorm...

+27

How to get involved?

- Actually, the course is having its first baseline - https://academy.eurospi.net/
  - **needs analysis**
    - Needs Analysis based on the stakeholder survey
  - **details of the skills sets**:
    - Skills Browsing Manager & Skills Browsing Engineer

- **CYBERENG Pilot training** will be offered **Q3 – Q4 2022**

You can **join other already done courses at https://learn.drives-compass.eu/**

DRIVES

- 28 MOOC courses available for free
- Developed by the European strategic partnership DRIVES (20 partners from 11 countries, including ACEA, CLEPA, ETRMA)

Georg Macher

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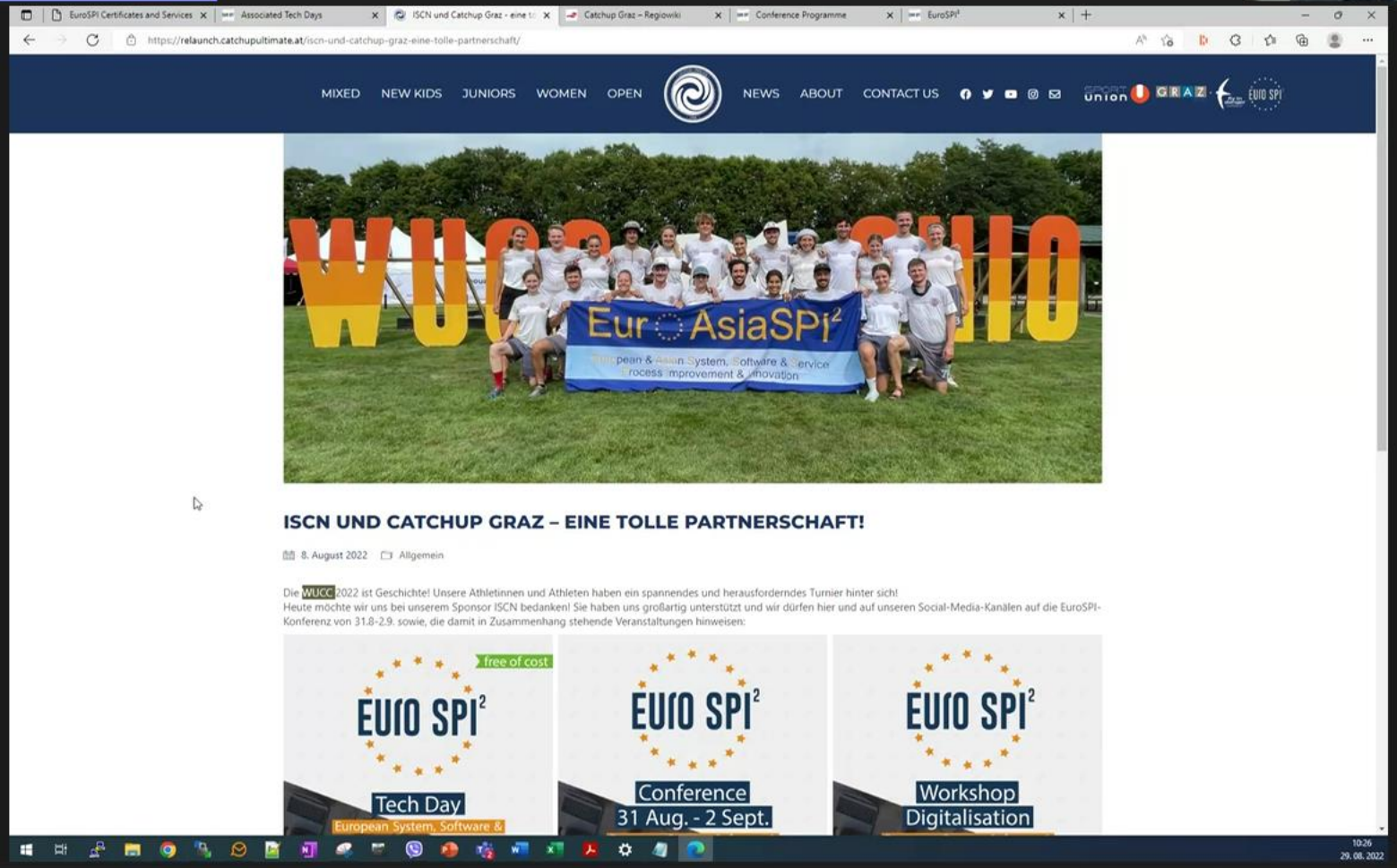

Damjan Ekert

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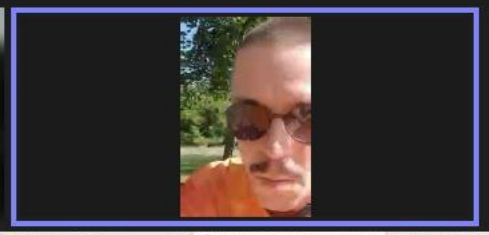

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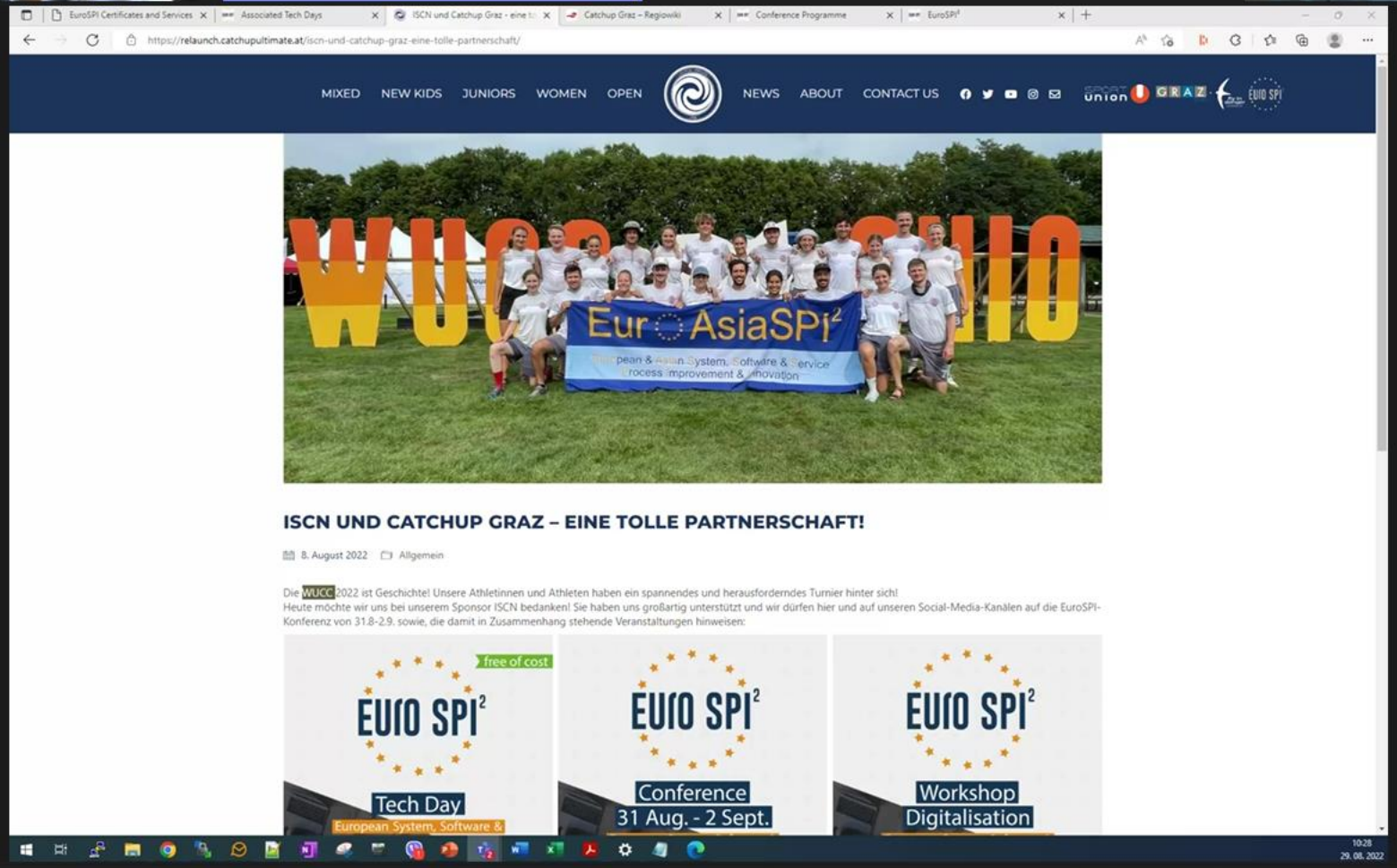

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Capability Adviser.

The number one assessment tool.

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Tobias Zehetner

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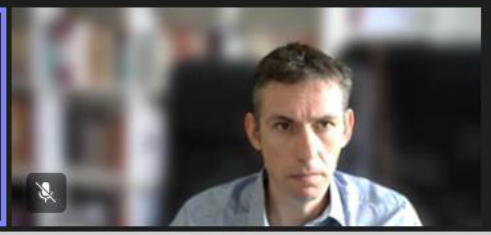

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With the next release, CapAdv will be supporting instanced Assessments.

CALCULATION

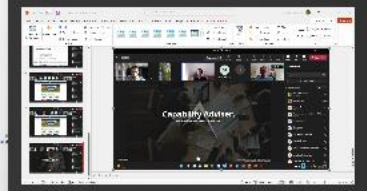
Capability Level Attributes for MAN.3 - Triple

Processes	Assessors	Attributes 1	2.1	2.2	3.1	3.2	4.1	4.2	5.1	5.2
Instance 1										
MAN.3 Project Management	Tobias Zehetner	F								
	Demo Assessor	N*	N*							
SUP.1 Quality Assurance	Demo Assessor	L								
Instance 2										
MAN.3 Project Management	Tobias Zehetner	P								
	Demo Assessor	L	N							
SYS.1 Requirements Elicitation	Demo Assessor	L								
Instance 3										
MAN.3 Project Management	Tobias Zehetner	L								
	Demo Assessor	F*	F*							
Total										
MAN.3 Project Management	Tobias Zehetner	L								
	Demo Assessor	P	P							
SUP.1 Quality Assurance	Demo Assessor	L								
SYS.1 Requirements Elicitation	Demo Assessor	L								
		1	2.1	2.2	3.1	3.2	4.1	4.2		

Overrule

Tobias Zehetner

Screen-Shots - PowerPoint



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- MR Mayer Ralf (BEG/ECP1)

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NM Nourhan M...

MR Mayer Ralf (...

+27

Project Group 13

Observations and Experiences with the PAM v3.1 and Guidelines v1.0

VDA QMC
Verband der Automobilindustrie
Qualitäts-Management-Center

Despite of great acceptance in worldwide community still some problems and misconceptions need to be addressed

- Reproducibility & comparability of assessment results have not improved
- Assessment duration increased
- Guideline content used as pure checklists
- Growing formalism instead of understanding the context
- Engineers in projects : frustration up – motivation down

Wlokka Albrecht (M/QMI)

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Project Group 13

Major Changes in the PAM v4.0

VDA QMC
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Revised Processes:

- SPL.2 Product Release
- MAN.5 Risk Management
- ACQ.4 Supplier Monitoring
- REU.2 Reuse Management

Other processes are adapted according to new concepts and the measurement framework used.

Wlokka Albrecht (M/QMI)

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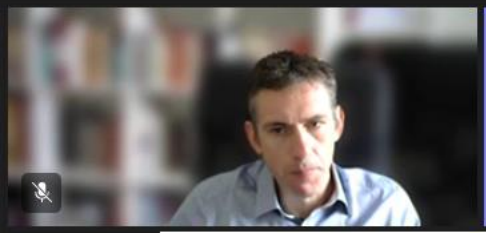

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Project Group 13

Process Overview (Draft)

VDA QMC
Verband der Automobilindustrie
Qualitäts-Management-Center

Management Process Group (MAN)
- MAN.3 Project Management
- MAN.5 Risk Management
- MAN.6 Measurement
- MAN.7 Cybersecurity Risk Management

Process Improvement Process Group (PIM)
- PIM.3 Process Improvement

Acquisition Process Group (ACQ)
- ACQ.2 Supplier Request and Selection
- ACQ.4 Supplier Monitoring

Supply Process Group (SPL)
- SPL.2 Product Release

System Engineering Process Group (SYS)
- SYS.1 Requirements Elicitation
- SYS.2 System Requirements Analysis
- SYS.3 System Architectural Design
- SYS.4 System Integration and Integration Verification
- SYS.5 System Verification
- VAL.1 Validation

Software Engineering Process Group (SWE)
- SWE.1 Software Requirements Analysis
- SWE.2 Software Architectural Design
- SWE.3 Software Detailed Design and Unit Construction
- SWE.4 Software Unit Verification
- SWE.5 Software Integration and Integration Verification
- SWE.6 Software Verification

Hardware Engineering Process Group (HWE)
- HWE.1 HW Requirements Analysis
- HWE.2 HW Design
- HWE.3 Verification against HW Design
- HWE.4 Verification against HW Requirements

Mechanical Engineering Process Group (MEE)
- MEE.1
- MEE.2
- MEE.4
- MEE.5

Machine and Deep Learning (MDL)
- MLE.1 Machine Learning Requirements Analysis
- MLE.2 Machine Learning Architectural Design
- MLE.3 Machine Learning Training
- MLE.4 Machine Learning Model Testing

Cybersecurity Engineering Process Group (SEC)
- SEC.1 Cybersecurity Requirements Elicitation
- SEC.2 Cybersecurity Implementation
- SEC.3 Risk Treatment Verification
- SEC.4 Risk Treatment Validation

Supporting Process Group (SUP)
- SUP.1 Quality Assurance
- SUP.8 Configuration Management
- SUP.9 Problem Resolution Management
- SUP.10 Change Request Management
- SUP.11 Data Management Machine Learning

Basic Scope
New Process

Primary Lifecycle Processes | Organizational Lifecycle Processes | Supporting Lifecycle Processes | Scope ASPICE for Cybersecurity

Wlokka Albrecht (M/QMI)

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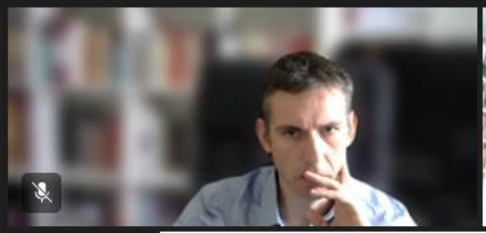

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Project Group 13

Building blocks of "ASPICE Potential analysis" - BASIC and FLEX

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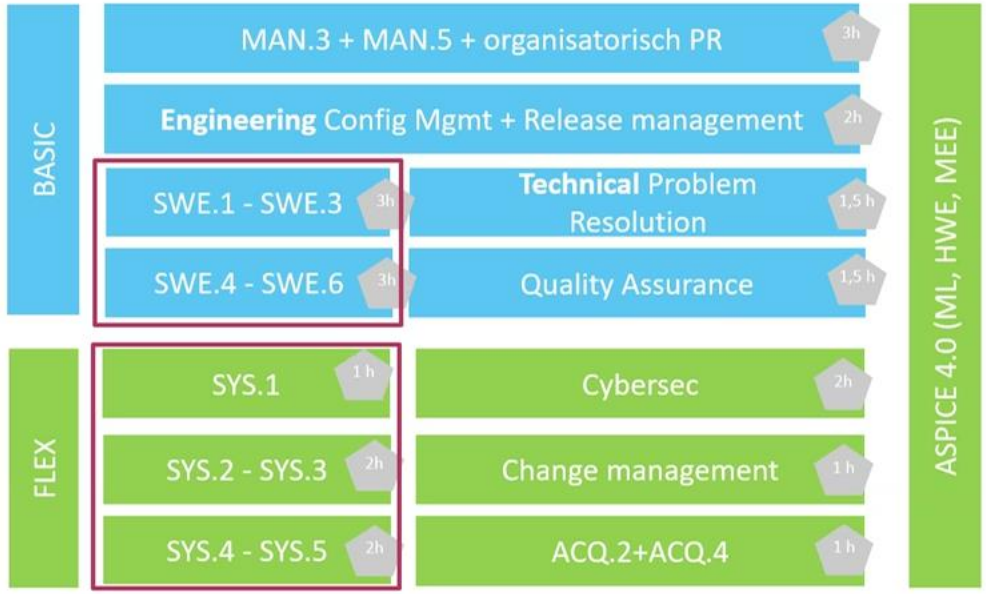
Qualitäts-Management-Center

- Scope consists of BASIC set with at least one plugin (SW, SYS, HWE..)
- Add FLEX processes as needed.
- Style and content in line with ASPICE 4.0.
- Engineering focus in configuration management and problem resolution
- Duration BASIC ~2 days



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DE Damjan Ekert

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Educational Modules for BC Architect (A), BC Developer (D) and BC Manager (M)

Transversal Skills (M, A, D)			
Technical Basics (D, A, M)		*Business Basics (M, A, D)*	
Technical Blockchain Specialisation (D, A)		*Business Blockchain Specialisation (M)*	
BC Conception & Use Case Development (A)	*BC Engineering & Development (D)*	*Strategic Business Management (A, M)*	*Operational Business Management (D, M)*

29/08/2022 8 [CHAISE, D2.5.1] blockchain skills for Europe

Andreas Riel

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DE Damjan Ekert

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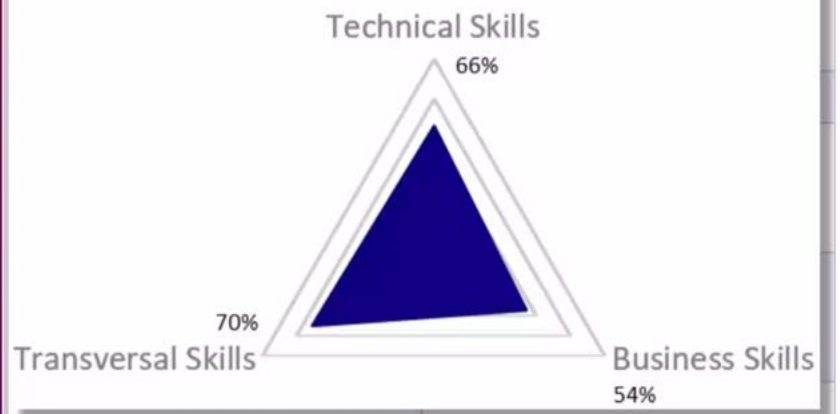
Educational Modules for BC Architect (A), BC Developer (D) and BC Manager (M)

Transversal Skills (M, A, D)

Skill Index of the BC Developer



- General software development skills
  - Emphasis on the development skills
- The important Business skills are operational business skills.
- All transversal skills should be included

29/08/2022 11 [CHAISE, D2.5.1]

blockchain skills for Europe

Andreas Riel

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Traceability – Integrated V-Model – Extended Questions

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SOQRATES (https://soqrates.eurospi.net , working group)

- Best practices exchange of implementation on a method basis
- Extended safety questions for ASPICE VDA Scope (mainly parts 2,3,4,5,6 of ISO 26262)

Capability Adviser

All Assessments | Evidences | Export | Rating | Settings | Raspberry | Help

All Units

+ ACQ.4 Supplier Monitoring
+ MAN.3 Project Management
+ SUP.1 Quality Assurance
+ SUP.8 Configuration Management
+ SUP.9 Problem Resolution Management
+ SUP.10 Change Request Management
– SWE.1 Software Requirements Analysis
  - » SWE.1 1
  - » SWE.1 2
  - » SWE.1 3
  - » SWE.1 4
  - » SWE.1 5
+ SWE.2 Software Architectural Design
+ SWE.3 Software Detailed Design and Unit Construction
+ SWE.4 Software Unit Verification
+ SWE.5 Software Integration and Integration Test
+ SWE.6 Software Qualification Test
+ SYS.2 System Requirements Analysis
+ SYS.3 System Architectural Design
+ SYS.4 System Integration and Integration Test
+ SYS.5 System Qualification Test

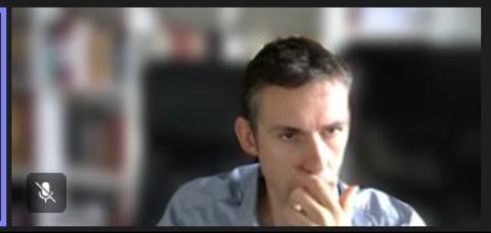
ASPICE 3.1 VDA Scope and Safety Extension of ASPICE Demo
Safety Extension

Software Requirements Analysis — **The purpose of the Software Requirements Analysis Process is to transform the software related parts of the system requirements into a set of software requirements.**

SWE.1 1: Summary | Notes | Save All | Evidences | Recommendations | Rules | Safety

☐ **SWE.1.BP1** **Specify software requirements.** Use the system requirements and the system architecture and changes to system requirements and architecture to identify the required functions and capabilities of the software. Specify functional and non-functional software requirements in a software requirements specification. [OUTCOME 1, 5, 7]

ISO 26262 Extended Questions:
- Are software safety requirements in line with the technical safety requirements (Requirements, interfaces, constraints, ?)?
- Are all software safety requirements marked as safety requirements and referred to their source?
- Are semiformal notations used for ASIL C and D?
- Are software safety diagnose requirements assigned to an appropriate diagnose level (e.g. e-gas model with (Level 1 - base diagnosis, Level 2 - independent plausibility checks and functional diagnosis, Level 3 - system control, checking the call sequences, processor, etc.).
- Is the software state machine described and is the safe state clearly separated?
- Is the independence of the monitoring software clearly described?
- Are the software signals specified in the hardware software interface?
- Is there a diagnose matrix describing safety diagnose L2 and L3 functions and the expected fault reaction?
- Are there non functional software requirements relating to the ISO 26262 method tables?
- Are there non functional software requirements relating to the ASIL level assigned influencing the software architecture?
- Is the operating software and the related task management and synchronization of the control software considered?
- Are the appropriate methods used for analysis (see method tables in ISO 26262)?



R reem (Guest)

Andreas Riel

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Introduction

The process “Process Improvement” (PIM.3) is part of the assessment model but is still not in the scope of the processes selected by the automotive manufacturers for assessing the suppliers.

The VDA scope, the Fiat Chrysler scope, in fact all scope selections did not select PIM.3 but rather focused on special topics.

On the other hand, it is known that many improvement projects fail.
→ Therefore, it is an interesting question why this process has not been selected so far.

In November 2021, the iNTACS (“International Assessor Certification Scheme e.V.”) established the strategy of a certified process expert training (scheme presentation will be a Keynote by B. Sechser).

Process expert training can be attended by non-assessors and is a pre-training before attending a provisional assessor course.

The idea is to teach the practical understanding of processes and how to implement improvement programs in organisations. This new approach then suddenly highlighted the importance of PIM.3.

Wegner Thomas SCW EDMQM1 (External)

Participants

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- AT Adriana Tilita (Guest), Meeting guest
- Andreas Riel
- AM ANI MIHAI\\\"\\\" (Guest), Meeting guest
- AD Antonia Demele, External
- DE Damjan Ekert
- DA Detlev Aust, External
- EW Erik Wilhelm (External), External
- Georg Macher
- JG Gottwald, Julian, External
- GE Groher Patrick ARB EDMQM1

R reem (Guest)

Andreas Riel

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Example 1:

For the case 1 above a paper has been published in EuroSPI 2020 and in the EuroSPI WILEY Special Issue in 2021. The concept described in the papers is outlined in the below figure 2.

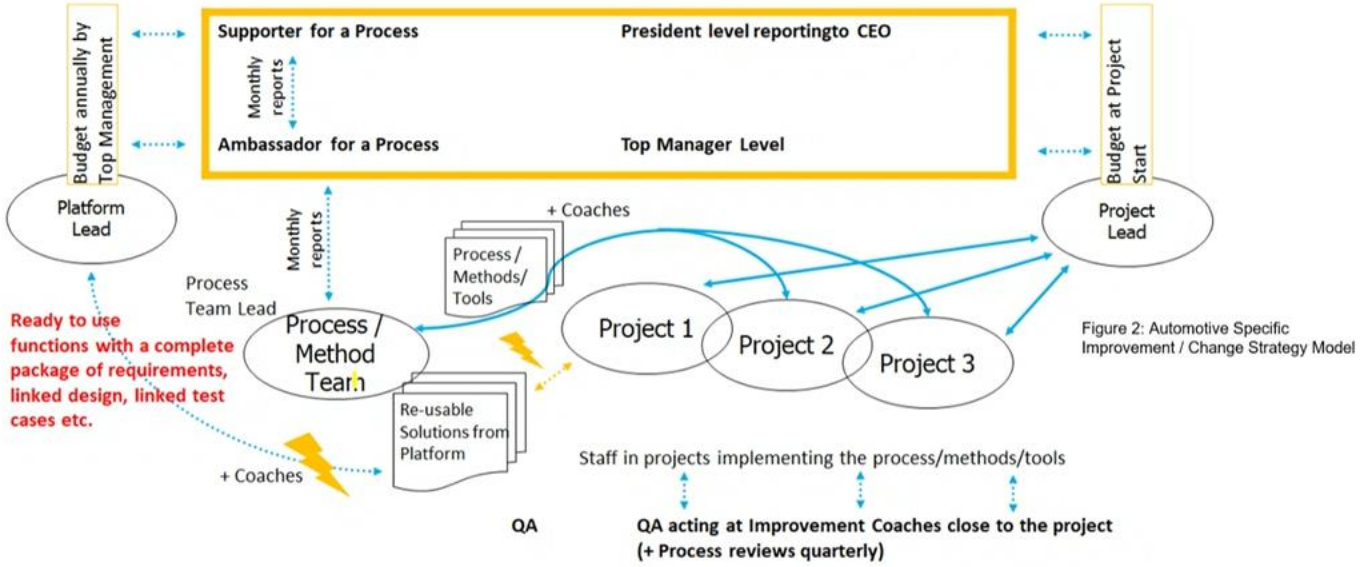

Figure 2: Automotive Specific Improvement / Change Strategy Model

intacs.info International Assessor Certification Scheme

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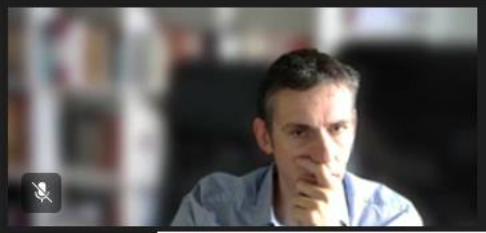

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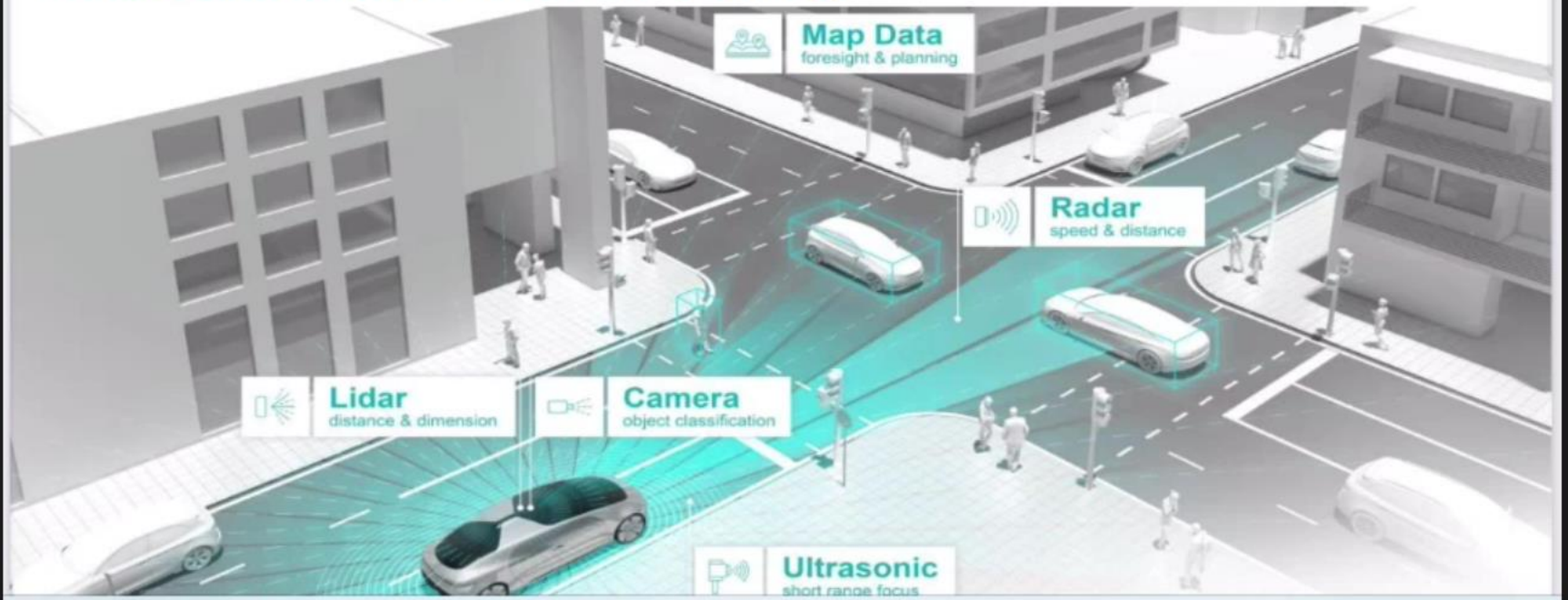
Data-Driven Engineering (DDE) Process for Machine Learning in Automated Driving

Sensor Data Used For Automated Driving



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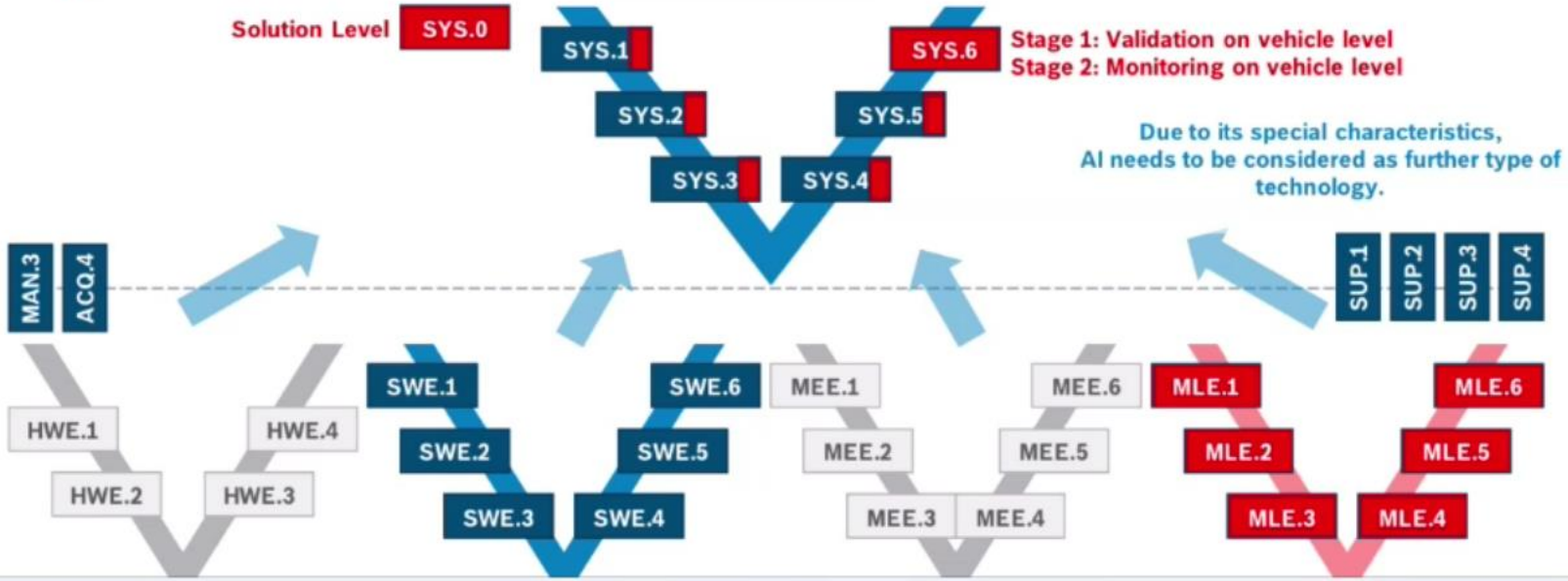
Data-Driven Engineering (DDE) Process for Machine Learning in Automated Driving

Proposal for a ML motivated Extension of ASPICE



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Presentations from 2022:

- The Automotive Skills Alliance ASA
- Experiences with the ASPICE for Cybersecurity Assessment Model
- The Cybersecurity Engineer and Manager Project
- Innovation Assessment - ISO 56000 based assessment development
- Capability Adviser Updates on Features
- Overview about the new ASPICE 4.0 PAM
- The EU Blueprint Project about Blockchain Technology and Education
- Experiences with integrated ASPICE and ISO 26262 Assessments
- The new process improvement expert training module from iNTACS - Paper at EuroSPI
- Data Driven Engineering Process - An ASPICE Compatible Process for Machine Learning in Automated Driving

Download the Presentations

Presentations from 2021:

- Automotive SPICE® for Cybersecurity
- First Experiences with the Automotive SPICE for Cybersecurity Assessment Model
- Experiences with safety assessments and safety cases
- Experience Report from Recent Combined Assessments: ASPICE 3.1 + ISO 26262
- Capability Adviser - A Collaborative Web Assessment Tool
- DRIVES - The Blueprint Project
- ECEPE - Certified Electric Powertrain Engineer

Presentations from 2020:

- Experience with the Implementation of the VDA Guidelines for ASPICE 3.1 with advanced tool support
- Experience with the Combined use of ASPICE 3.1 and ISO 26262 assessments
- Capability Adviser Product Portfolio and main Features - Design