



# intacs™ - Quo vadis? 你要去哪兒？ What will intacs™ expect in the future, and why intacs™ has to follow it

Bernhard Sechser

Chinese SPICE Network  
Conference  
Shanghai, October 11<sup>th</sup>, 2019

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# Bernhard Sechser

intacs™

- Principal Assessor & Instructor
- Member of the Advisory Board
- Head of the Regional Representatives

More than 12 years practical experience at Continental Automotive as

- Software & System Developer
- Quality Manager
- Processes & Tools Responsible

More than 10 years experience as

- Trainer, Coach, Consultant & Manager

Functional Safety Expert on ISO 26262

VW Software Quality Improvement Leader (SQIL)

Co-founder and CEO of Process Fellows GmbH





# Agenda

## 1. intacs™ - Status and Updates

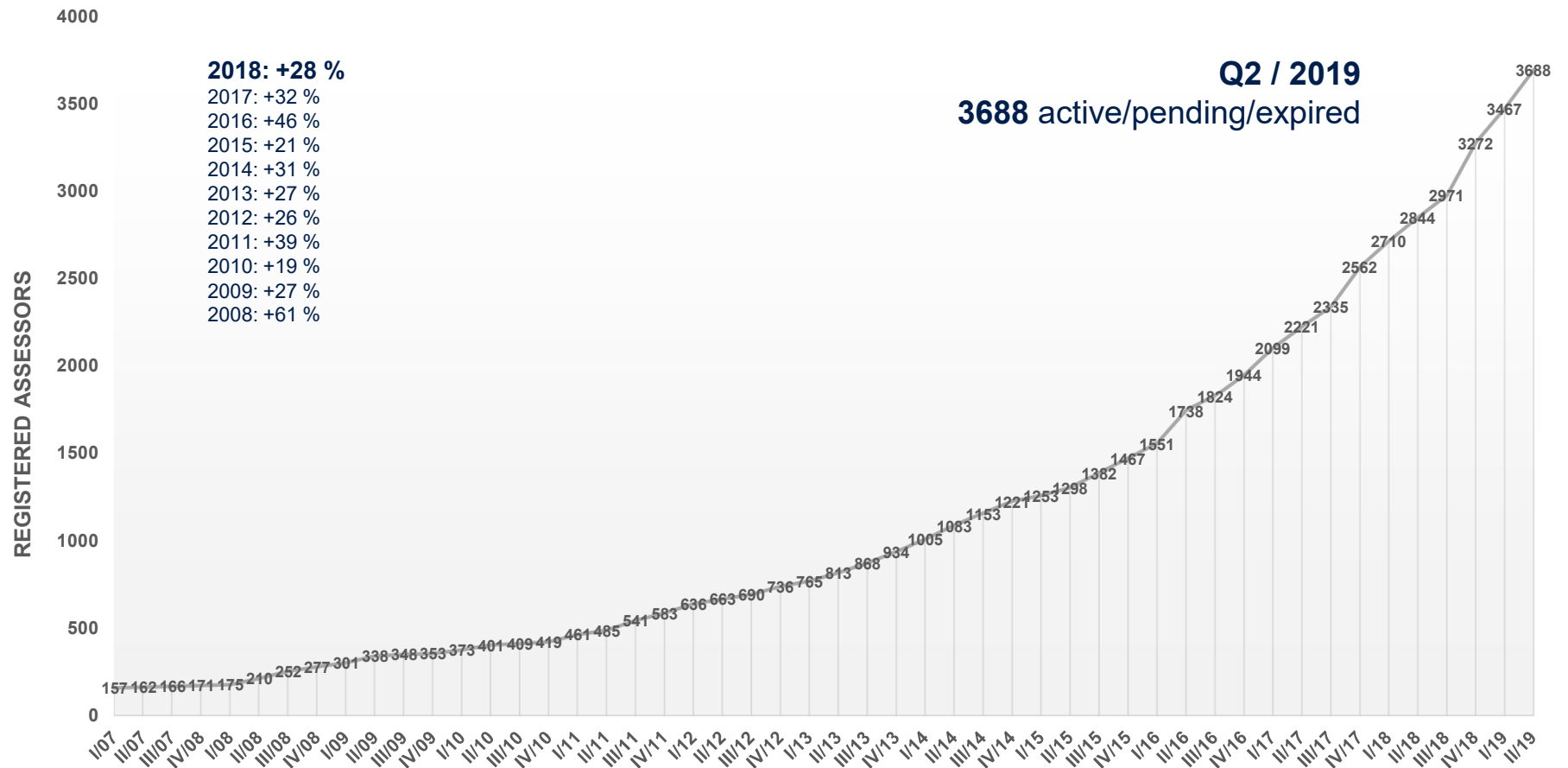
- Assessor Statistics
- Update of the Certification Procedures
- Escalation Activities

## 2. intacs™ - Vision and Strategy

- Challenges for our global business
- intacs™ member survey
- Target groups and domains
- Current and future tasks and responsibilities



# Assessor Statistics – Certification trend in Automotive domain

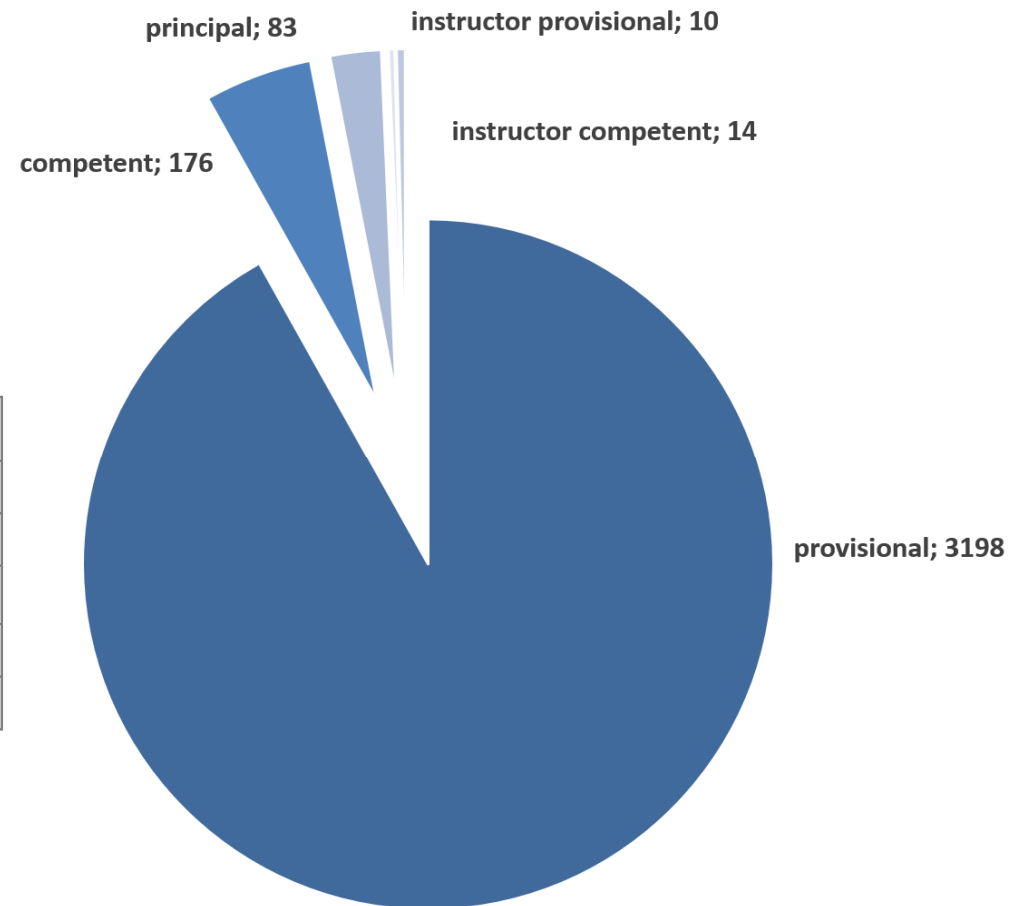


Source: © VDA QMC

# Assessor Statistics – Certification overview (January 2008 – June 2019)

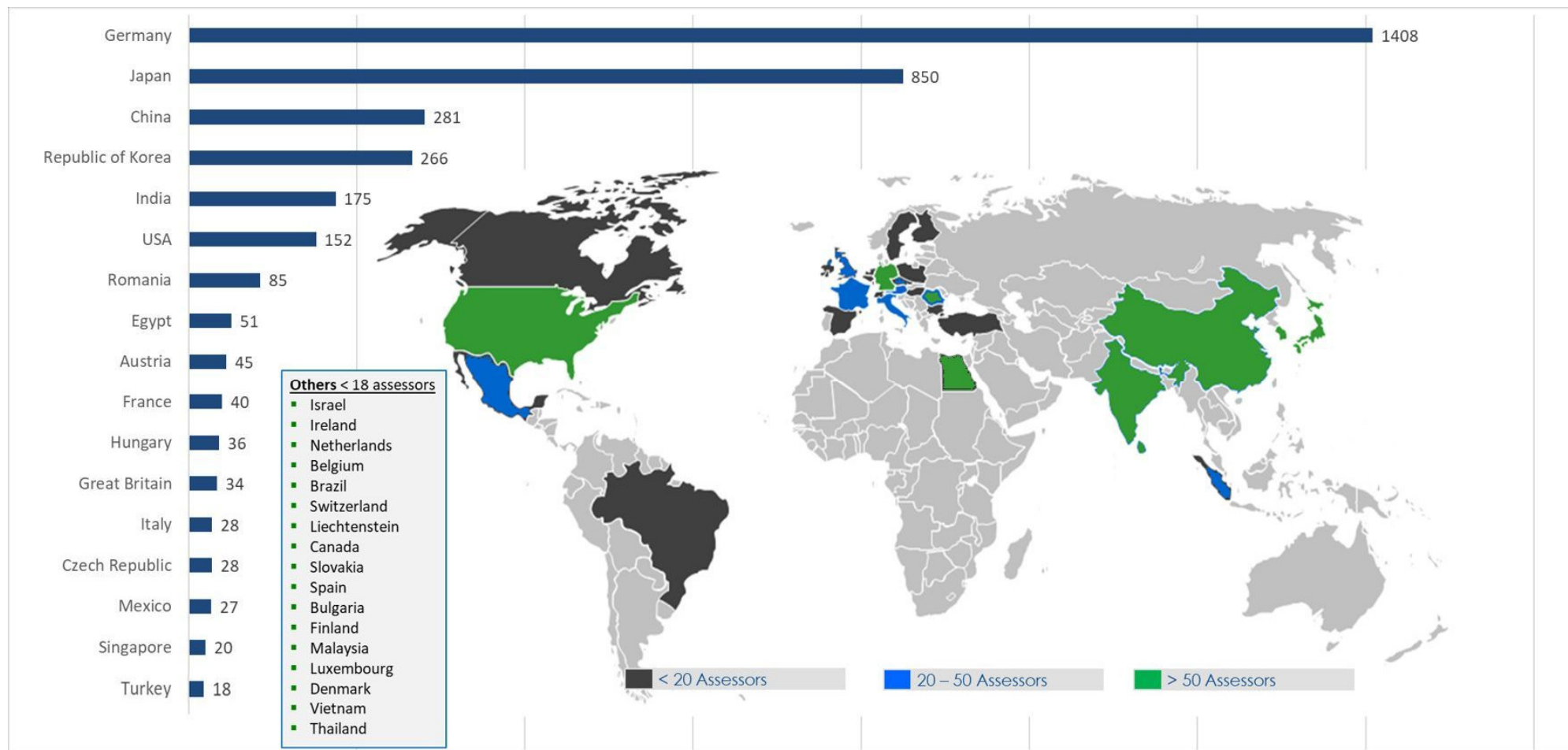
Registered intacs assessors Automotive SPICE: **3688**

Number of exam participants – Provisional level	<b>5453</b>
Passed	4772 (= 87 %)
Failed	664 (= 13 %)
Number of exam participants – Competent level	<b>304</b>
Passed	275 (= 89 %)
Failed	29 (= 11 %)



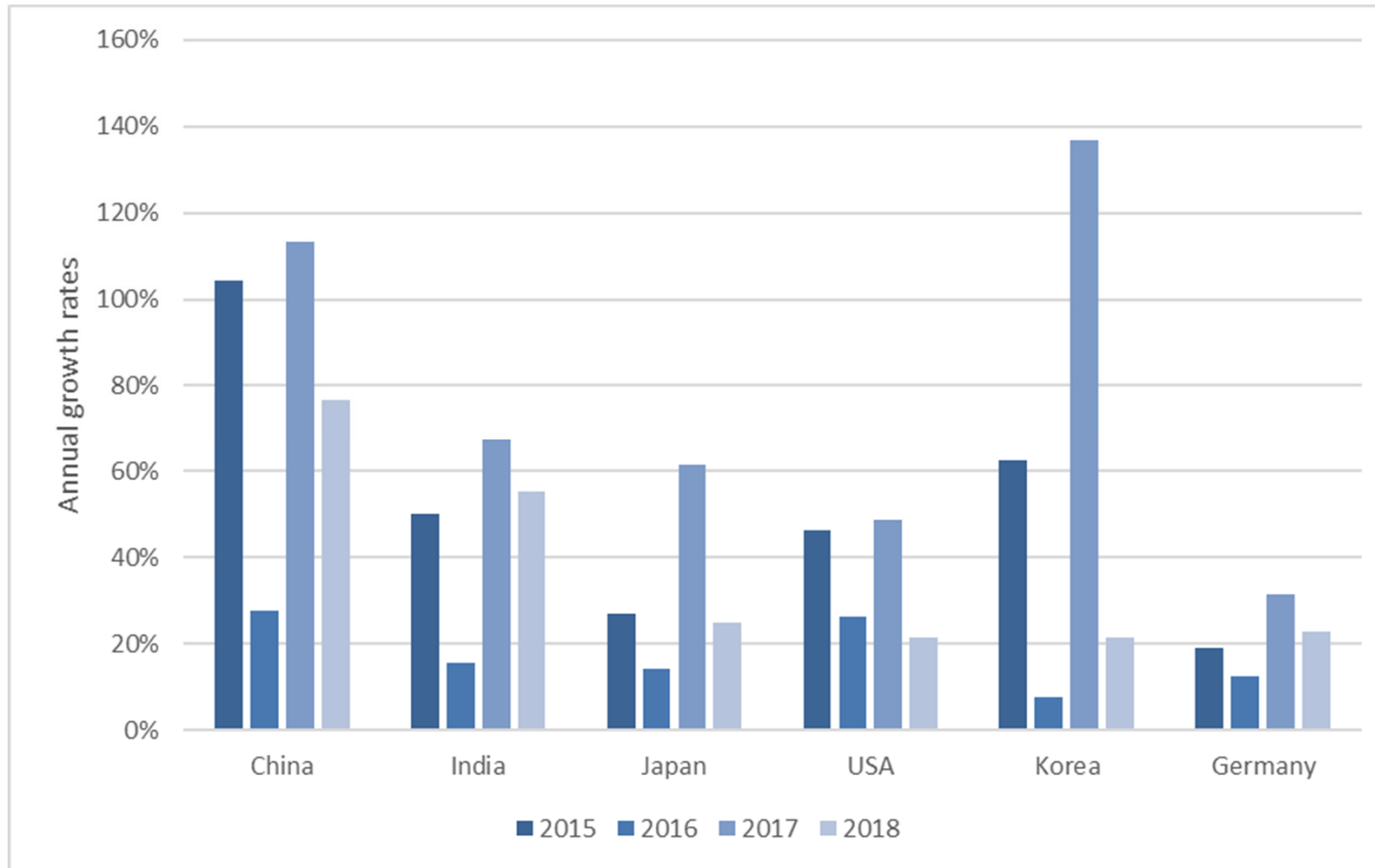
Source: © VDA QMC

# Assessor Statistics – International distribution



Source: © VDA QMC

## Assessor Statistics – Growth rates by country



Source: © VDA QMC

# Update of the Certification Procedures – Change Requests



New versions:

- Concept Experience Evidence [intacs07-010e EE Concept] Version 7.1
- Procedure Certification of Assessors [intacs06-004e Proc Assessor Cert] Version 9.2

Changes:

- Terminology and abbreviations more clearly defined
- Numbers for EE types not used any more, only letters to avoid confusion with old procedures and types
- Loophole closed: Instructor Certification has to fulfill same requirements as Principal Certification
- Time limit between exam and certification always 12 months
- Requirements for active contribution (EE-AC) defined more precisely:  
The minimum duration of the presentation is 30 minutes (excluding introduction, questions and answers).  
If there is more than one speaker they have to agree, who gets the EE-AC.  
**One** EE-AC for only **one** speaker.



# Update of the Certification Procedures

## Types of Experience Evidences (EE)

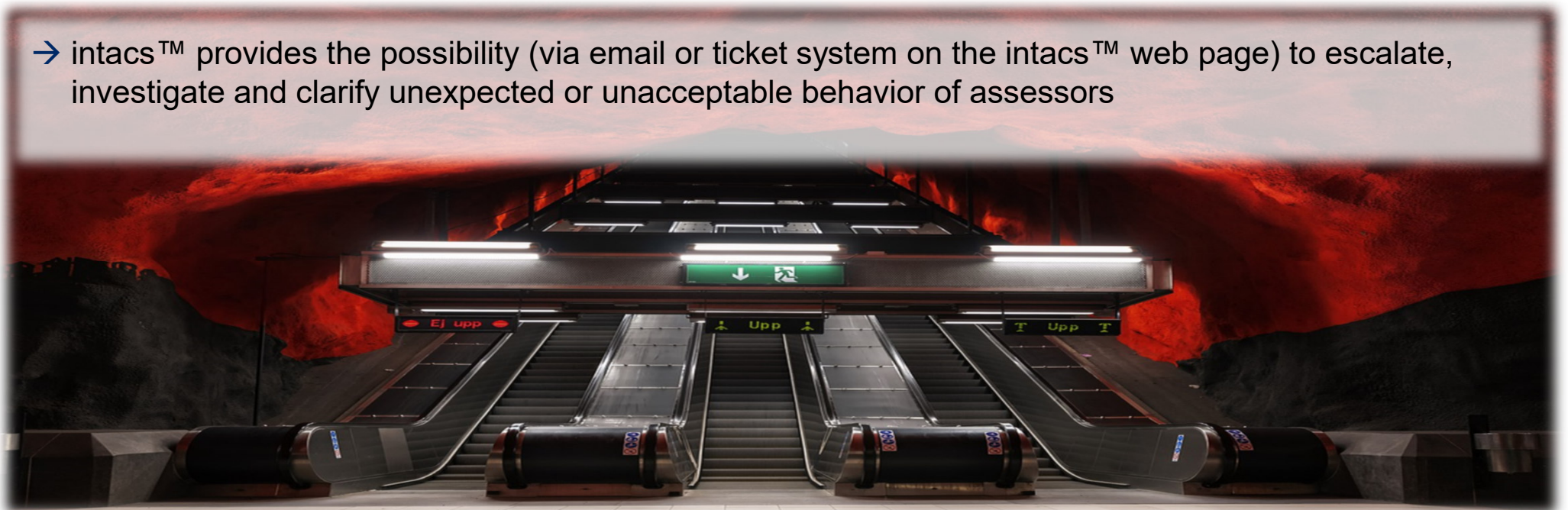


- Type **EE-AT**: AT = Assessment Team member  
Participating in ISO/IEC 15504 or ISO/IEC 330xx-compliant assessments as Assessment Team member
- Type **EE-AL**: AL = Assessment Leading  
Leading an ISO/IEC 15504 or ISO/IEC 330xx-compliant assessment as Lead Assessor
- Type **EE-IP**: IP = Internal Passive  
Participation in a company-internal event
- Type **EE-EP**: EP = External Passive  
Participation in an external event
- Type **EE-AC**: AC = Active Contribution  
Provide an active contribution to the ISO/IEC 15504 / ISO/IEC 330xx community
- Type **EE-CT**: CT = Course Trainer  
Provide an intacs™ Assessor Training Course (observed or standalone)

# Escalation Activities

- Each assessor has to fulfill the requirements of ISO/IEC 15504 / ISO/IEC 330xx
- Each assessor has to respect the procedures defined and provided by intacs™
- Each assessor has to respect the requirements of the certification body (VDA QMC)
- Each assessor has to sign and follow the intacs™ Code of Conduct

→ intacs™ provides the possibility (via email or ticket system on the intacs™ web page) to escalate, investigate and clarify unexpected or unacceptable behavior of assessors



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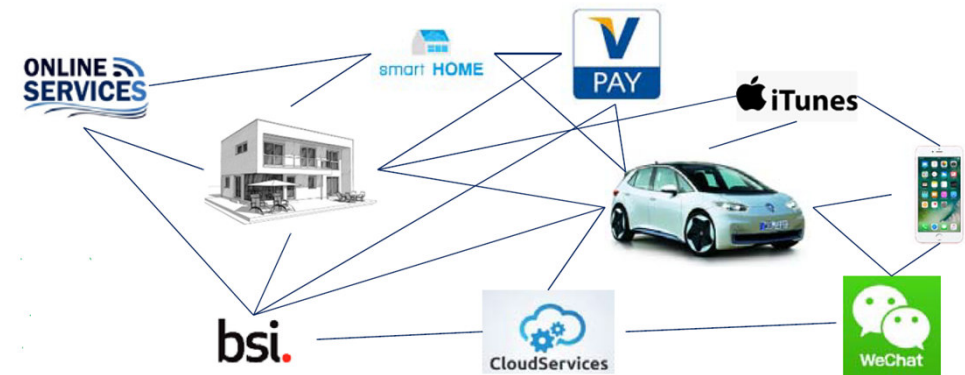
## 2. intacs™ - Vision and Strategy

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- intacs™ member survey
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# Challenges for our global business – Disruptive Digital Transformation

- The ideal world: closed embedded development
  - Approved customer requirements
  - Closed development with classical methods
  - Finished product with one Start of Production (SOP)
  - Durability with statistic process control
- The digital reality:
  - Digital platforms and eco systems
  - Open Source / Communities
  - Network of OEMs, suppliers, IT providers, ...
  - Agile never finishes...

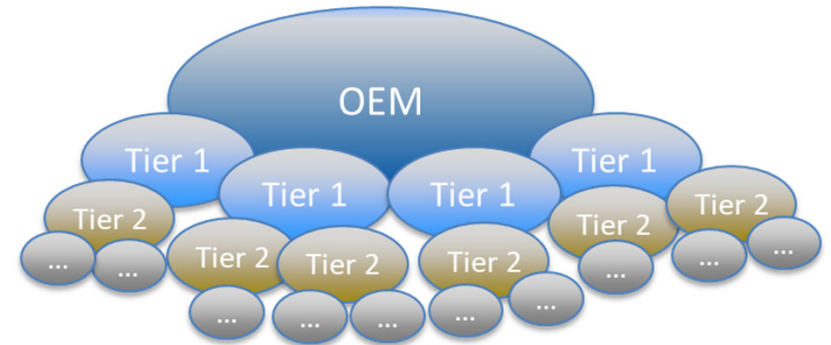




# Challenges for our global business – Extension of value/supply chain

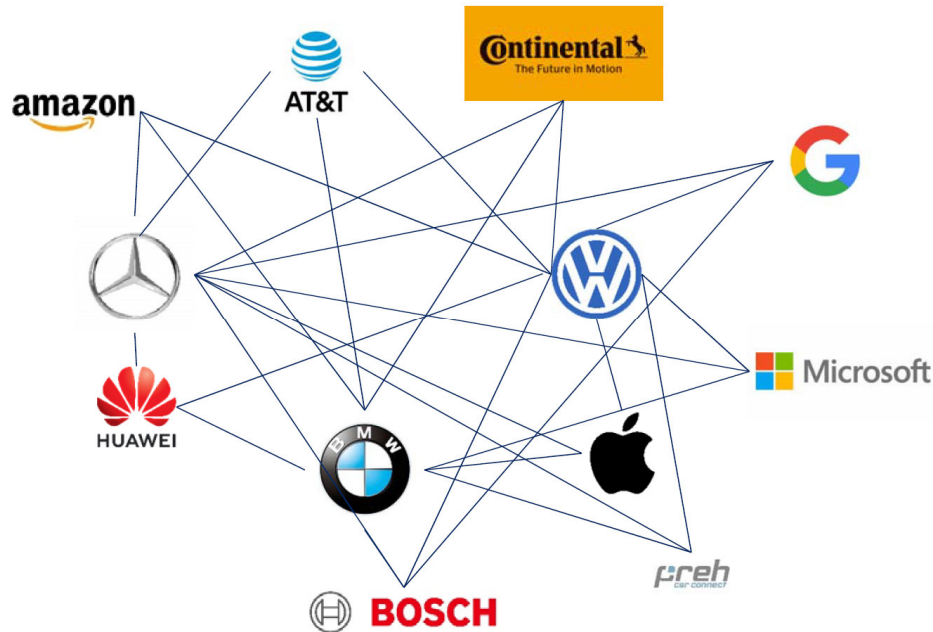
The old world: hierarchical structures

- Delivery from the bottom (OEM  $\leftarrow$  1<sup>st</sup> Tier  $\leftarrow$  2<sup>nd</sup> Tier  $\leftarrow$  ...)
- Business domination by OEMs
- Defined standards
- Structured rules



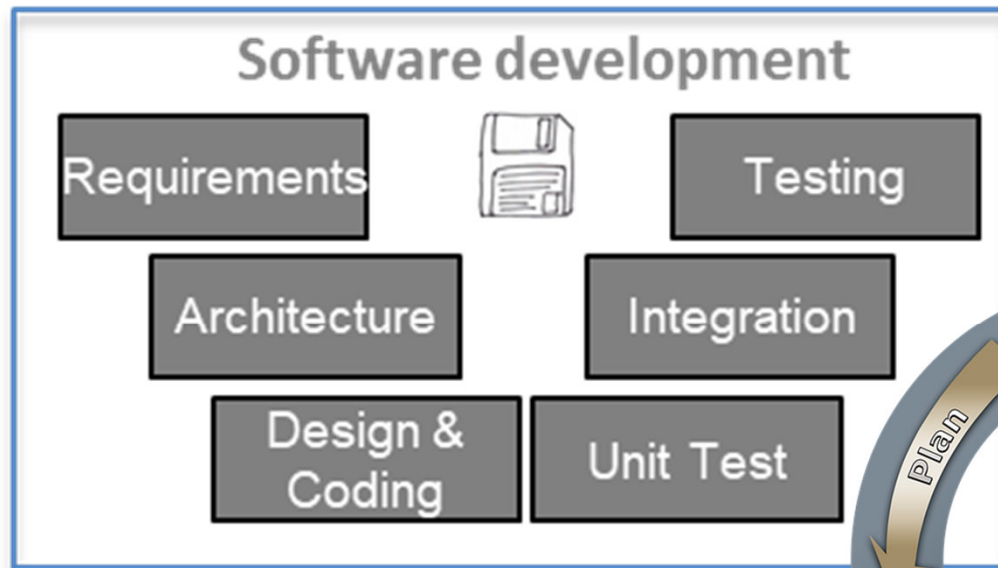
The new work:

- Shared development by network
- Platform-dominated businesses
- Co-operative working models
- More customer touchpoints

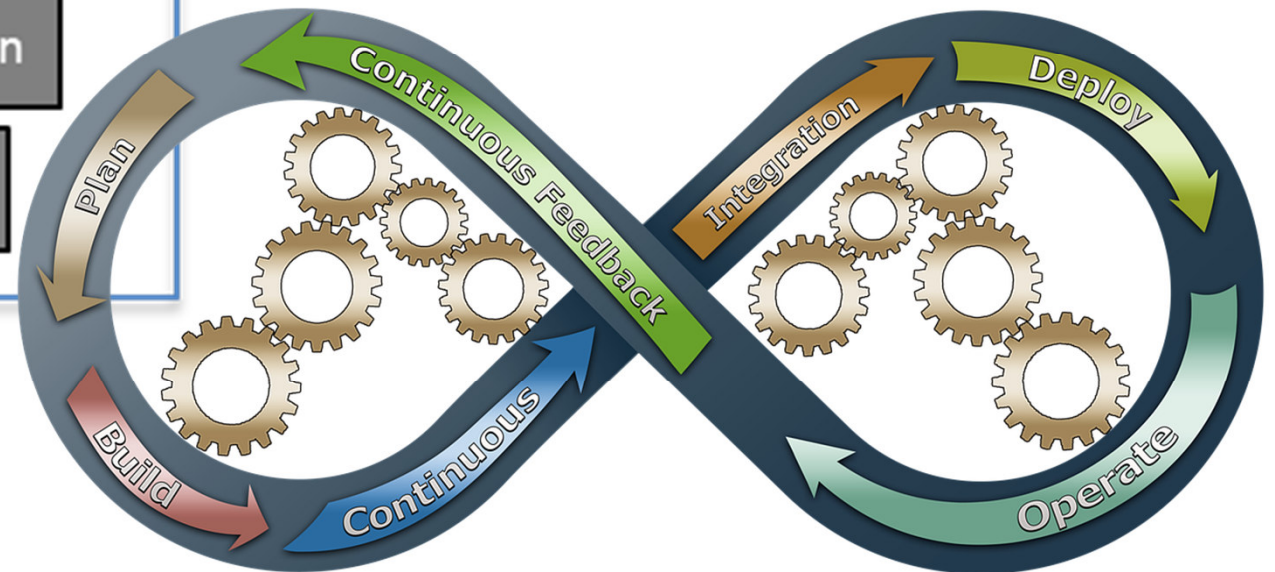




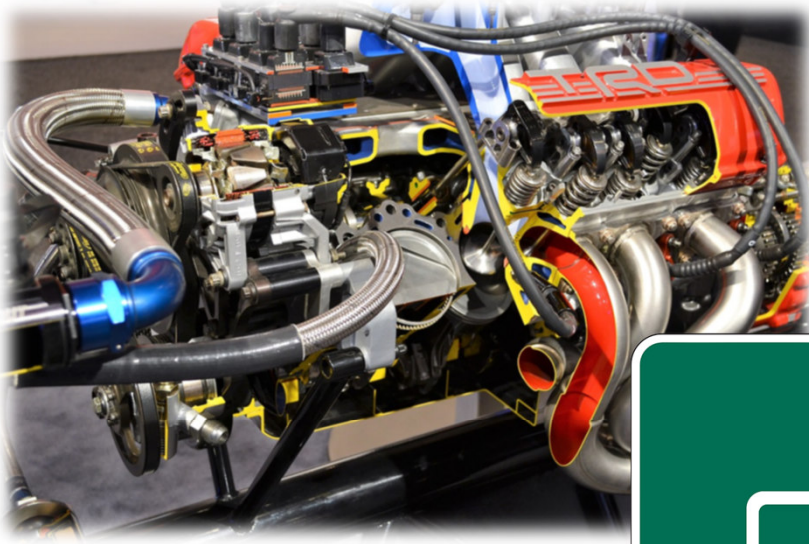
## Challenges for our global business – Change of development methods



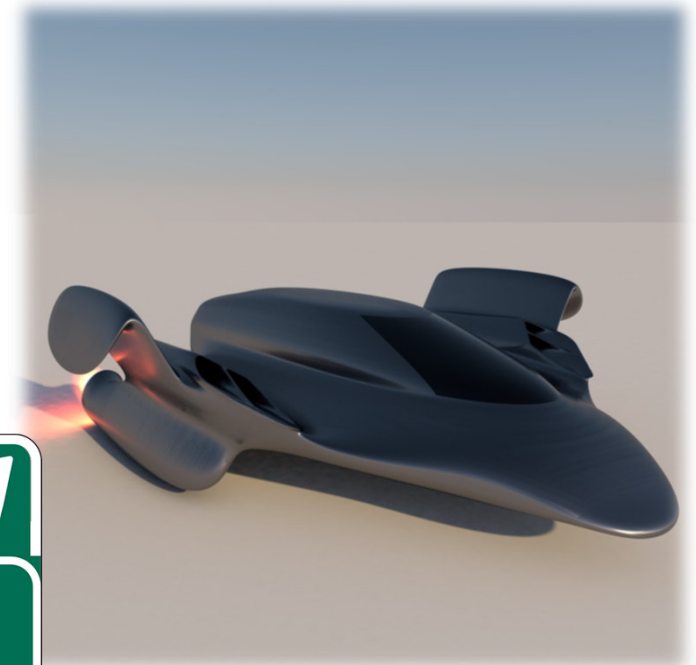
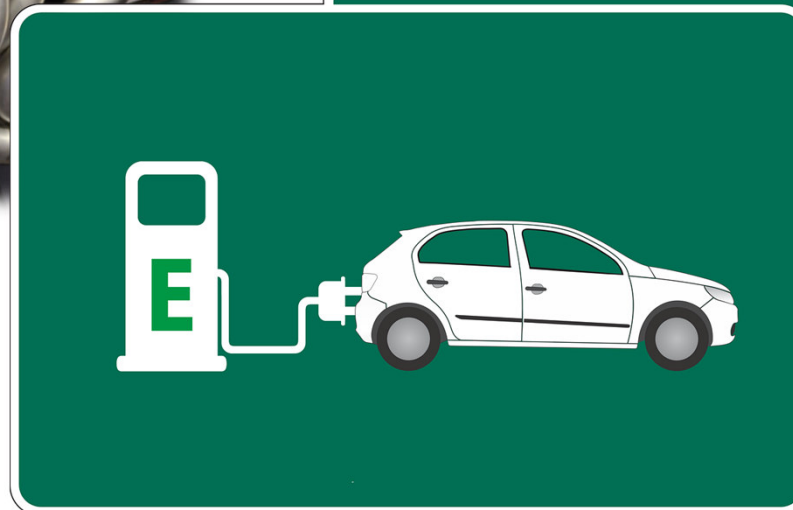
... and Automotive SPICE® ???



## Challenges for our global business – Elimination of old technologies

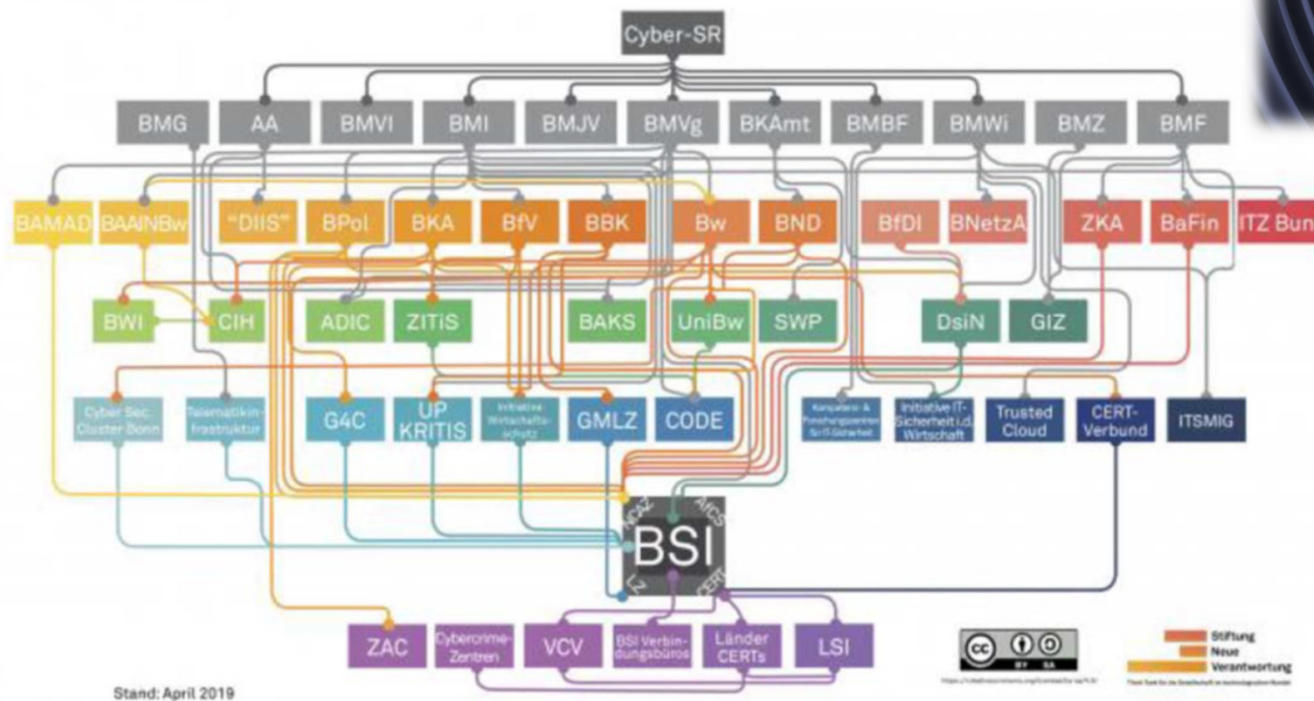


Next 



# Challenges for our global business – Increasingly strict legislation

## German governance security organization





# intacs™ member survey

In 2018 all intacs™ members were asked to give a feedback about intacs™

Top 3 results:

- In general, satisfied with scope of services offered by intacs™
- Good communication within the community
- Support of additional PAMs, e.g. ISO 20000 IT Service Management

Worst 3 results:

- Paying for intacs™ services
- Development of an Agile PAM
- General interdisciplinary approach



# Survey Results – Target groups and domains

Target groups of intacs™

- Assessors
  - Training Providers
  - Instructors
  - Certification Bodies
  - Communities, e.g. Gate4Spice, CSN, KSN, NSPICE, ...
- ... and **managing the interfaces** between all of them.



Focus on new domains and fields:

- IT Services
- Mobile network operators
- Digital supply chain
- Medical Devices
- ...



# Survey Results – Current and future tasks and responsibilities



- Support for ISO 20000 IT Service Management
- Support for Functional Safety and Cyber Security
- Integration of models for the digital supply chain (SPICE, IT Service Management, IT Security, ...)
- Development of user guidelines for agile development
- Influence of Automotive SPICE® Assessments on future IATF 16949 Certification
- Further development of the intacs™ training system (modularity and maintainability for further models)
- Promotion of youth development (intacs™ based scholarship)
- And finally...

New intacs™ website (layout, technology interface)



# DO YOU HAVE ANY QUESTIONS?

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