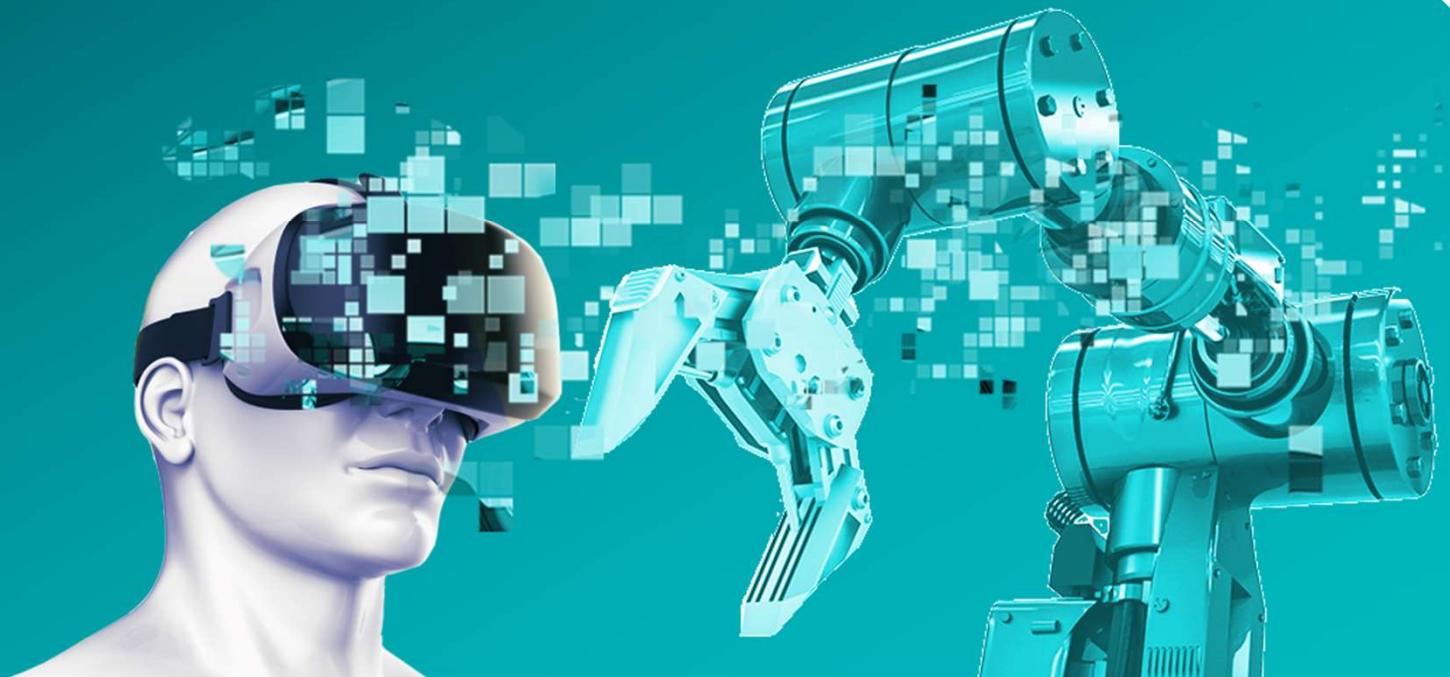


CPO Report 2018

January 2018



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Content

1. CPO Motivation & Drivers
2. CPO DIN SPEC Standardization
3. CPO accredited Certification

Executive Summary:

- CPO is means for realizing Industrie 4.0 & Society 5.0*
- CPO will be published as DIN SPEC Standard in Q1/2018
- CPO accredited certificates available from Q2/2018 on

Industrie 4.0 & Society 5.0 Aims

**Openness is Enabler! Be Smart & Fast!
CPO is the means!**

- Seamless connectivity
- Future-readiness
- Reduction of Complexity
- Agility & Flexibility
- Cost-reduction



30% of all costs are integration costs

DAIMLER

*The Code of PLM Openness (CPO) is the foundation for Daimler's PDM strategy and serves as the basis for the **externalization of business objects from all IT applications to a service-oriented middleware**. This is a key driver for an IT system landscape with different development speeds and release cycles, whereby the implementation of the Digital Twin, the introduction of model-based Systems Engineering as well as the delivery of IT for Autonomous Driving will be enabled.*

*Dr. Siegmund Haasis,
CIO Research&Dev. Mercedes-Benz Cars*



Volkswagen

*Volkswagen, like all other automotive OEM's, has invested highly in its existing IT systems. The migration to new systems – especially for large monolithic systems – requires huge efforts and costs. Hence the extreme importance for Volkswagen for the **assurance of interoperability, supportability, cost effective maintainability and scalability** of the implemented systems.*

Matthias Keller,
Head of PDM

Code of PLM Openness (CPO)

Means for realizing Industrie 4.0 & Society 5.0

- Seamless Integration Plug & Play
- Reducing Complexity & Costs
- Increasing Agility & Flexibility

Standard Criteria Catalogue for

- Interoperability, Infrastructure, Extensibility, Interfaces, Standards, Architecture, Partnership

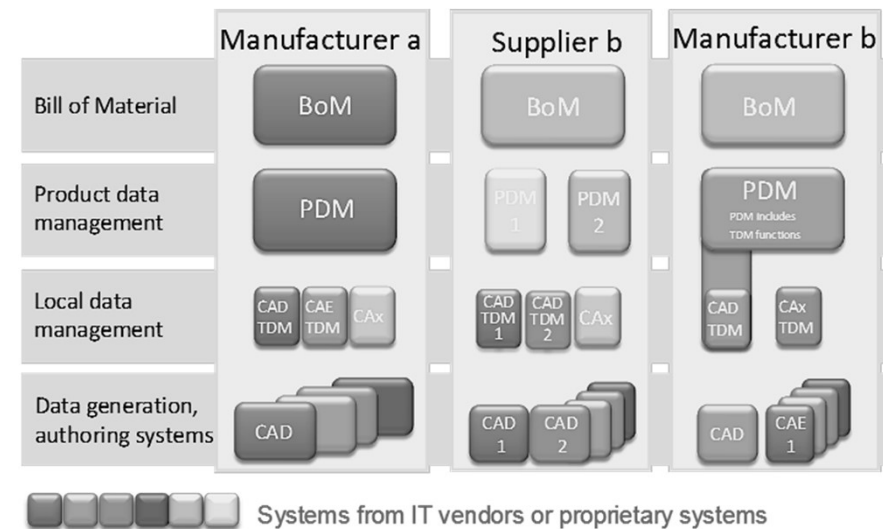
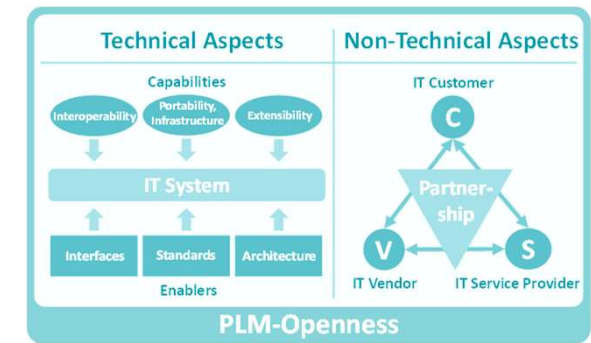
Patronage of BMWi (Ministry for Economic Affairs)

- Standardized as DIN SPEC 91372 (as basis for ISO-Standardization)

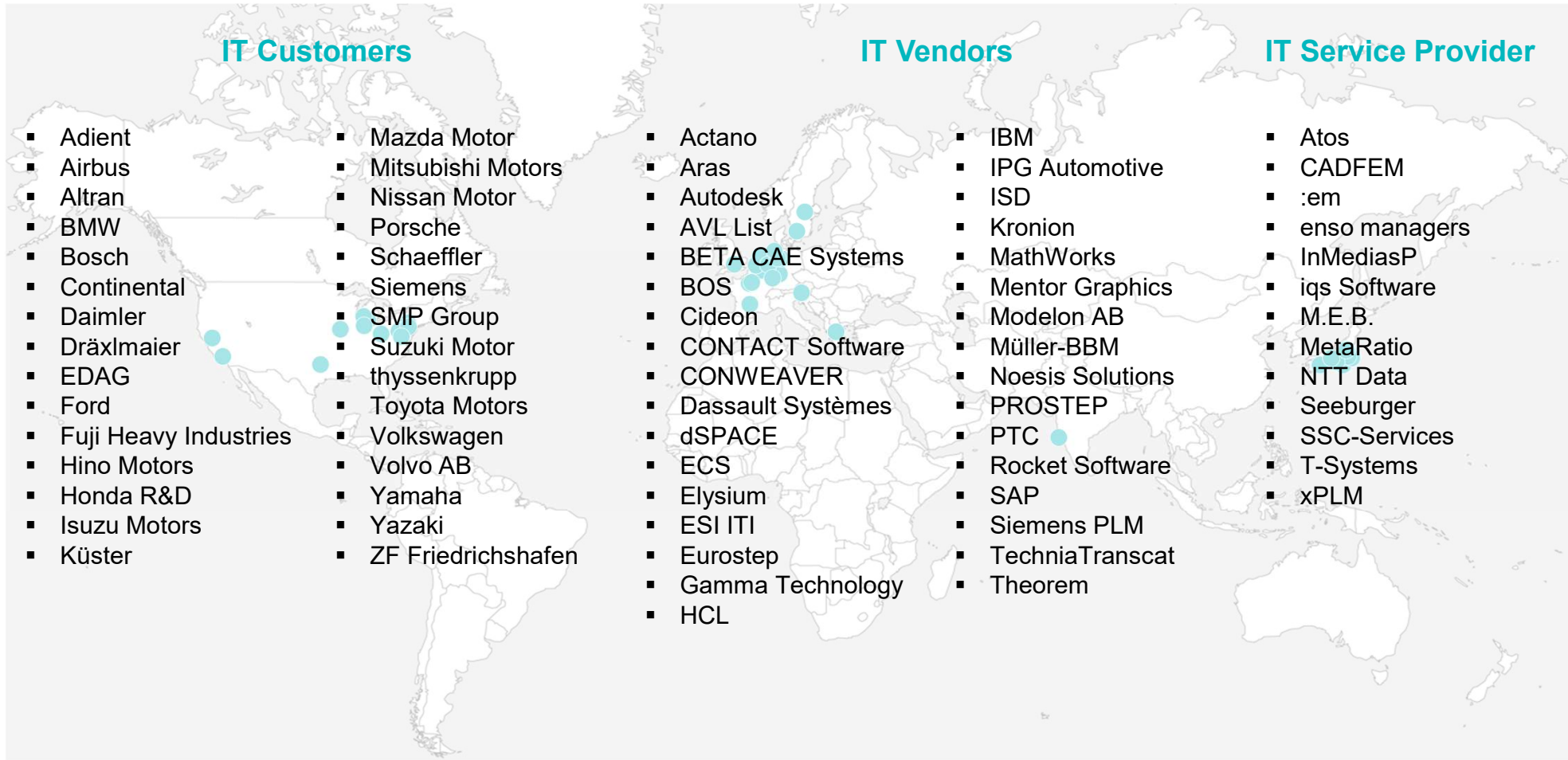
Trust at the Market

- Accredited Certification Program

Open for Everybody: www.prostep.org/en/cpo
cf. https://en.wikipedia.org/wiki/Code_of_Openness

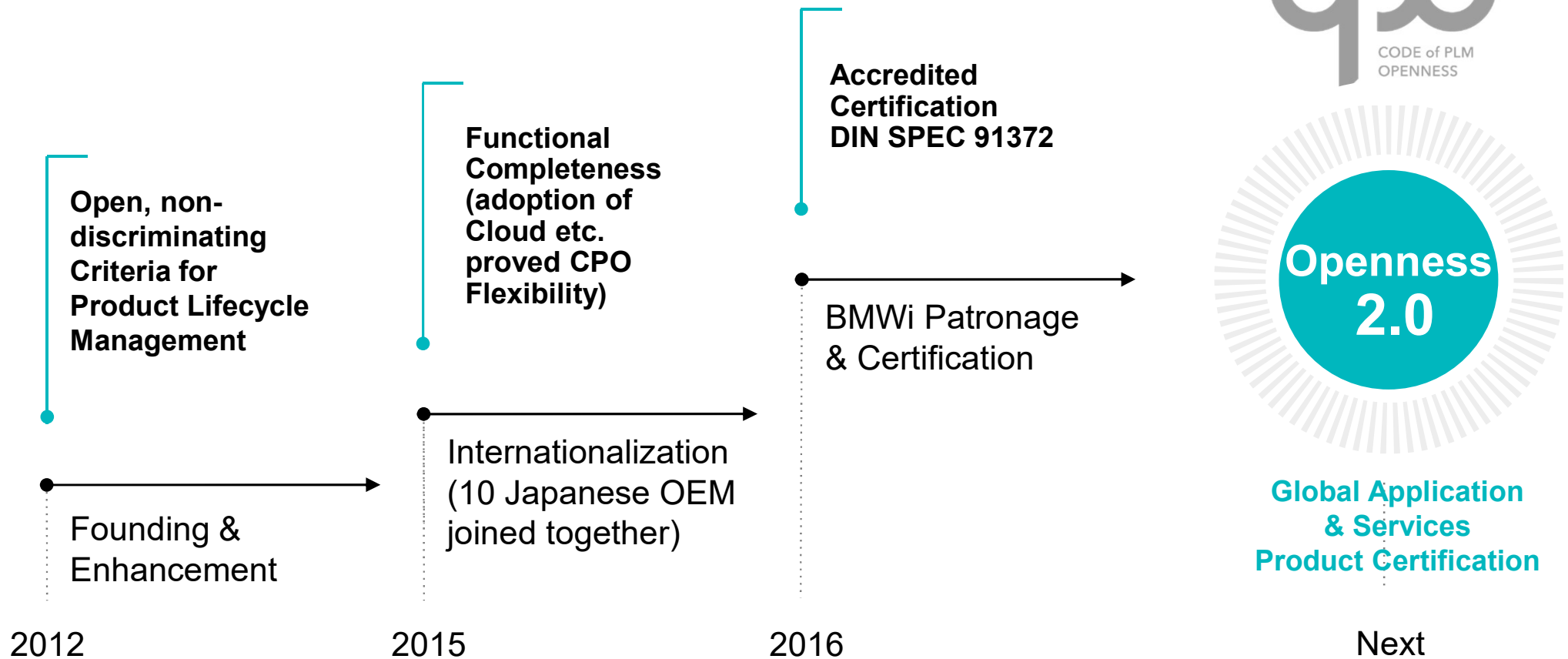


76 Committed CPO-Partners



CPO: Roadmap toward Openness 2.0

Past – Today - Tomorrow



Roadmap: DIN SPEC & Accredited Certification



CPO DIN SPEC Standardization

CPO DIN SPEC Standardization

DIN SPEC is a strategic instrument for establishing and disseminating specifications

- Fast way to assure national and international support /acceptance (standardization)
- Market players are used in relying on national and international standards
 - incl. certification bodies

DIN SPEC Standardization of CPO and Certification-relevant Documents:

- PSI 16 (CPO V1.4): DIN SPEC 91372-1 (public in 03/2018)
- Certification Handbook: DIN SPEC 91372-2 (public in 04/2018)
- CPO/Handbook Mapping: DIN SPEC 91372-3 (public in 04/2018)

Team: CPO Core Team + Certification Experts



CPO Certification



Status: Management Summary (Step 1)

Proceeding:

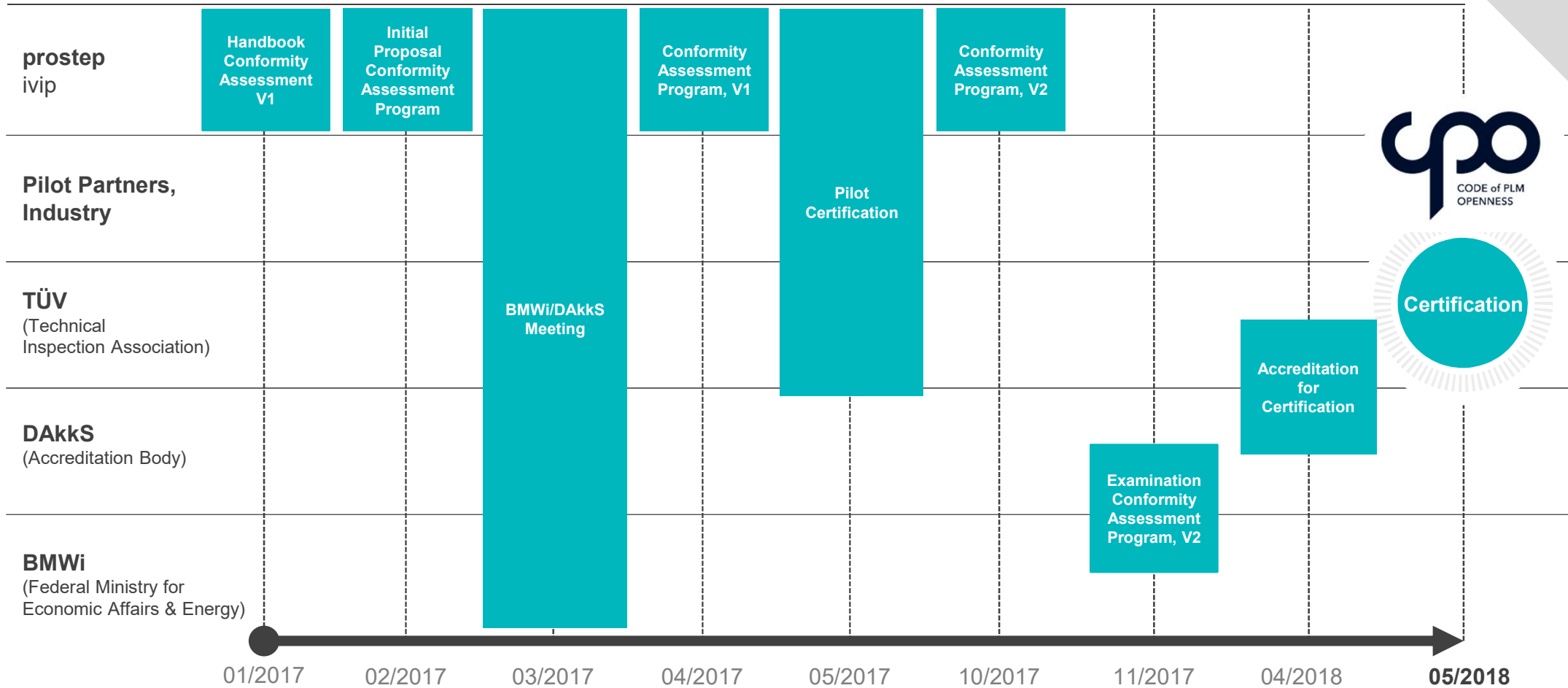
- Gaining support of German government (BMWi) and Accreditation Body (DAkkS)
- Developing a certification program (Step 1: Organization) for IT vendors, based on CPO
- Assuring high-quality and practicability of the program by conducting certification pilots
- Applying for accreditation of the program at the DAkkS
- Supporting certification on the market (same as with ISO 9000 etc.), from Symposium 2018 on



Review Piloting:

- Documents (certification ref. book, program, list of requirements) realized and communicated
- Pilot certification started
 - Pilot partners (incl. place of audit, size):
 - CONWEAVER (Germany, SME)
 - HCL (India, big group)
 - PROSTEP AG (Germany, SME)
 - PTC (US, big group)
 - SIEMENS PLM (UK, big group)
 - Pilot audits results very positive
 - Lessons learned incorporated into Certification Handbook

CPO Certification (Step 1) Roadmap



Outlook: Product Certification

CPO Certification follows 2-steps-approach:

Step 1: Organizational Certificate (define method, gather experiences, open market)

⇒ Ensure readiness of organizations to realize IT Openness
(equivalent to ISO 9001 for quality management)

Step 2: Product Certificate (enhance existing documents, add specific technological KPI)

⇒ Ensure IT Openness

Status:

Step 1 is operational in 04/2018 (see slides before)

Step 2:

- First discussions started in CPO Core Team in 03/2017
- Strong alignment with Japanese OEM desired
 - Meeting with Japanese OEM on 01.12.2017
- Concrete specification phase of technological KPI will start in 01/2018
 - Decided at CPO Core Team Meeting on 23.11.2017

CPO Public Relations

Latest Public Relation Activities

Events & Blogs: Symposium 2017



<http://blog.prostep.org/2017/05/17/it-openness-certification/>

Press: 09/2017 DIN Mitteilungen “Value of Openness”



<https://www.beuth.de/de/publikation/it-systeme-fuer-plm/279072451>

Internet:

CPO Homepage:

<http://www.prostep.org/en/cpo>

Wikipedia:

https://en.wikipedia.org/wiki/Code_of_Openness

White Paper:

CPO and Cloud: Impact Analysis

Standization:

DIN SPEC 91372-1



Thank you for your Attention

www.prostep.org

