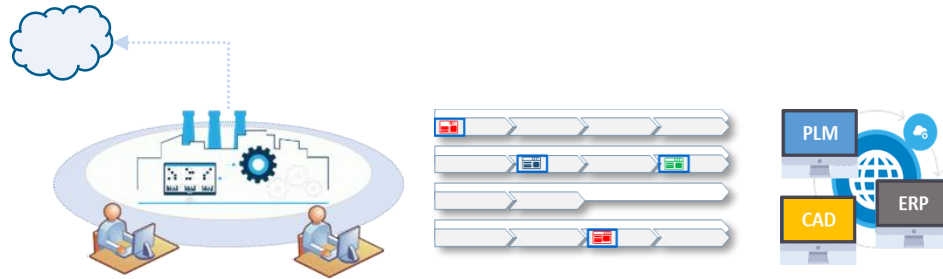


Applying digital solutions to the relationship between standardization and cataloguing: eCI@ss standard

Sebastian Kriegsmann

SMART Standards, enabler for digitization of industry stakeholders

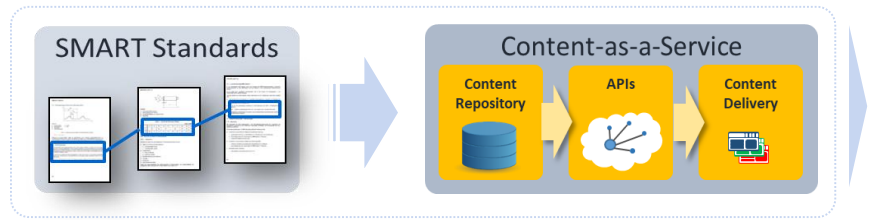
Industry



Benefits for industry:

- Higher process automation, improved quality and efficiency
- Interoperability of systems (Smart Manufacturing, e.g. Industry 4.0)
- Prerequisite for software integration, machine learning / AI

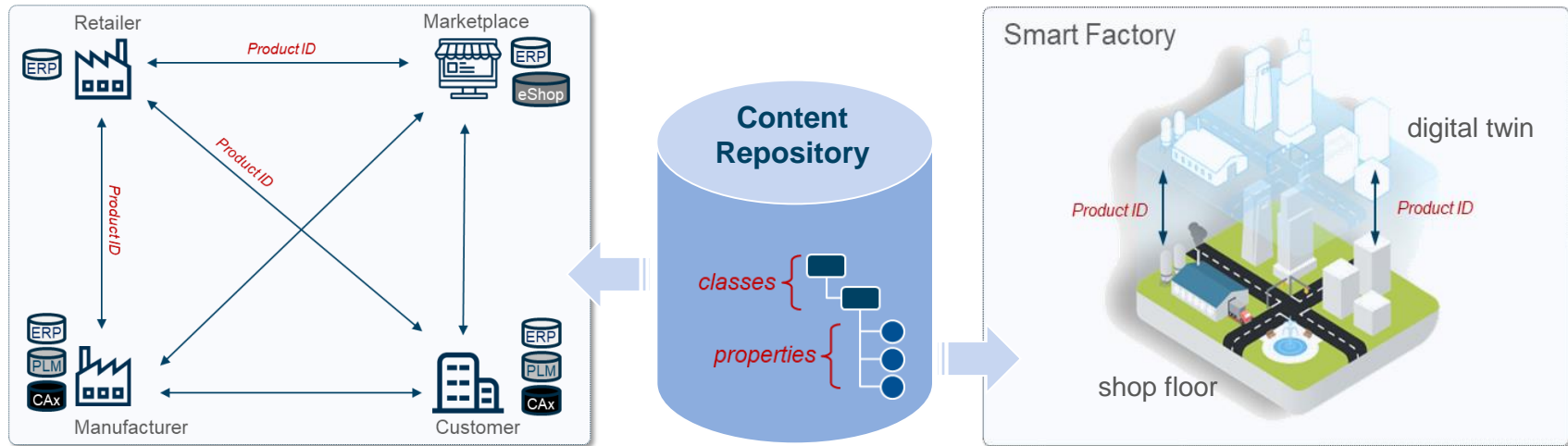
Standardization



Actual project status ISO / IEC:

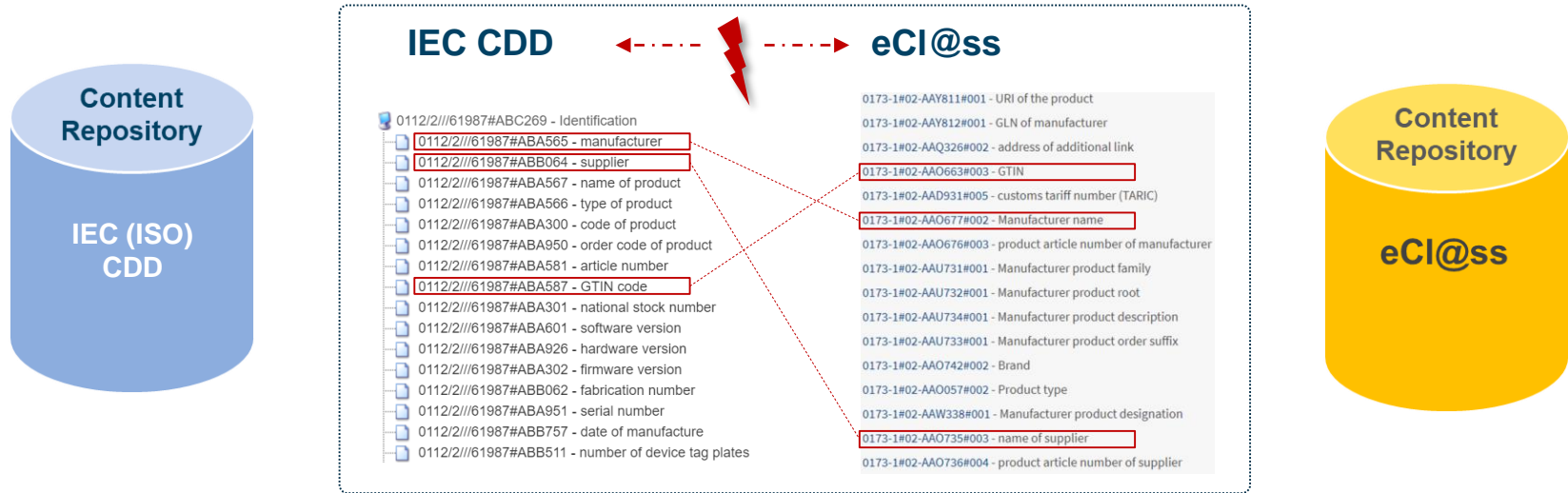
Running initiatives of “**machine readable standards**” at ISO and IEC are working on solutions to develop and provide machine executable content...

Standardized product properties ensure communication between market actors and within smart manufacturing environments → use case for SMART Standards



Product properties provided from a central content repository are an important use case for machine readable and executable standards

SMART Standards benefit from a comprehensive database describing properties... ... but there are currently two different and (partially) incompatible systems available



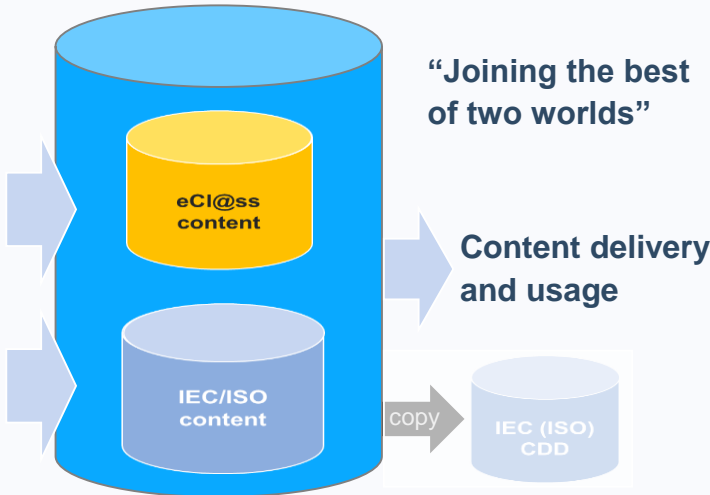
Problem: Differing properties, designations and semantics hinder interoperability between systems

To meet customer requirements, a single common data repository is strongly required

Single Common Data repository (SMART Standards)

[based on common data model IEC61360/ISO13584-42]

Content development



Illustrative (model to be defined)

Main steps to take:

1. Define **common processes and structures** between IEC,ISO and eCl@ss ensuring consistent and harmonized product properties
2. Assess and define measures to **harmonize existing databases**
3. Develop scenarios for a **sustainable financing model** that enables the work at IEC, ISO and eCl@ss

Pilot project to harmonize process for standardization of product properties

← 2020/21 →

International process alignment and partnership agreement ISO, IEC, eCI@ss

Setup

- Agreement on project scope and team
- Elaboration of MoU between ISO, IEC, eCI@ss

Concept & proposal of solution

- Reference process
- IT-architecture
- Common business model

Evaluation & decision on next steps
of results by steering committees in
ISO, IEC, eCI@ss

Project team:

- IEC + ISO commercial and technical representatives
- eCI@ss technical project manager
- DKE + DIN experts
- Representatives of important stakeholders (users of product properties) from industry (France / Germany / ...)

Thank you!

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DIN

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