CONSTRUCTION PRODUCTS EUROPE

Digital Construction

Workshop
Brussels, 7th October 2025

PDT Norway

- Norway's Digital Roadmap for the construction industry
- Need for open common data dictionaries
- Collaboration with Standards Norway
- Collaboration with Norwegian Building Authorities
- Way forward and recommendations



PDT Norge

Digital Construction Workshop
Brussels, 07.10.2025

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PDT Norway – team attending today's meeting



Jøns Sjøgren
CEO - Norwegian Construction Products Association

- Chairman PDT Norway
- Board member Construction Products Europe
- Chairman ISO/TC 59 - Buildings and civil engineering
- Vice Chairman Construction Board in Standards Norway
- Board member GS1 Norway
- Board member EPD Norway



Frank Jaegtnes
CEO – Norwegian Association of Electrical Manufacturers and distributors

- Chairman Byggstand
- Board member PDT Norway
- Board member ETIM International
- Board member European Union of Electric Wholesalers (EUEW)
- Board member NEMKO Group
- Responsible PDT Plattform



Halvard Høilund Kaupang
Project Manager PDT Norway

- Technical expert in PDT Norway
- Expert in JTC 24 DPP and WG 1 Semantic core group
- Expert and author in CEN/TC 442
- Expert en ISO/TC 59/SC 13 WG 10
- MIH Technical Working Group

Background - our biggest challenge

BYGGEVARE INDUSTRIEN

Sustainability

Circular economy
Social, economic and environmental sustainability



Affordability

Housing and construction that people and society can afford to buy / invest in

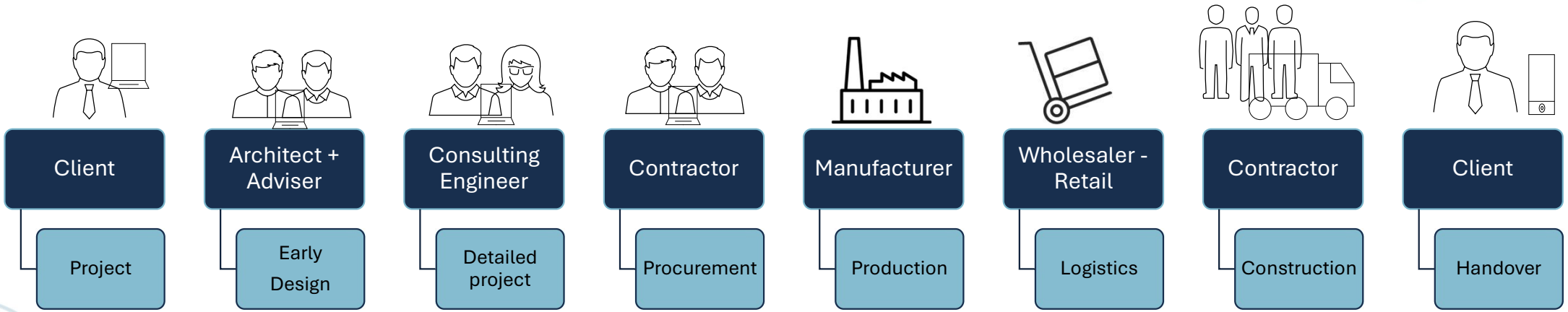


Digitalisation and standardisation



Challenge: - supply chain in Construction

- Low growth in productivity (if any)
- Silo based and fragmented
- Digital gap between product data and BIM
- Suboptimal business models
- Low ability (willingness) to change



National and Local Government and Building Authorities

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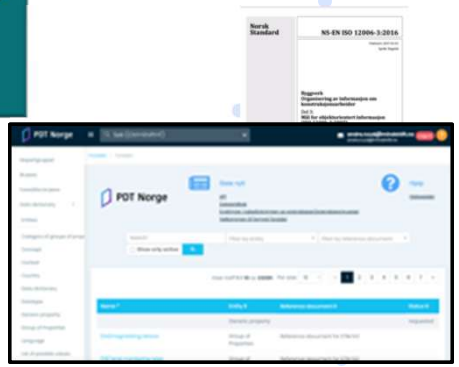
The history and evolution of PDT Norway

2005-2020
BIM,
buildingSMART
CEN / ISO



2020

Digital Roadmap
Data dictionaries identified as core digital component. Preliminary work in CEN/TC 442.



2021

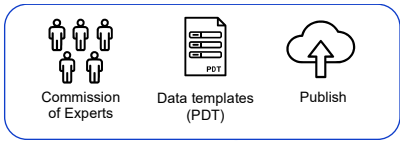
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Not for profit organization founded by 13 industry associations, the building authorities, research institute and notified body SINTEF

2022

Development and implementation of the PDT Norway platform and governance tool in compliance with CEN/TC 442 standards

2023



Making alliances, conducting pilot development on data dictionaries and templates, establishing relation to Byggstand (EDI/PEPPOL)



2024

ISO/FDIS 23387



Piloting data flow and participate in formal standardization in CEN/TC 442 and JTC 24 DPP

2025



JTC 24 standards



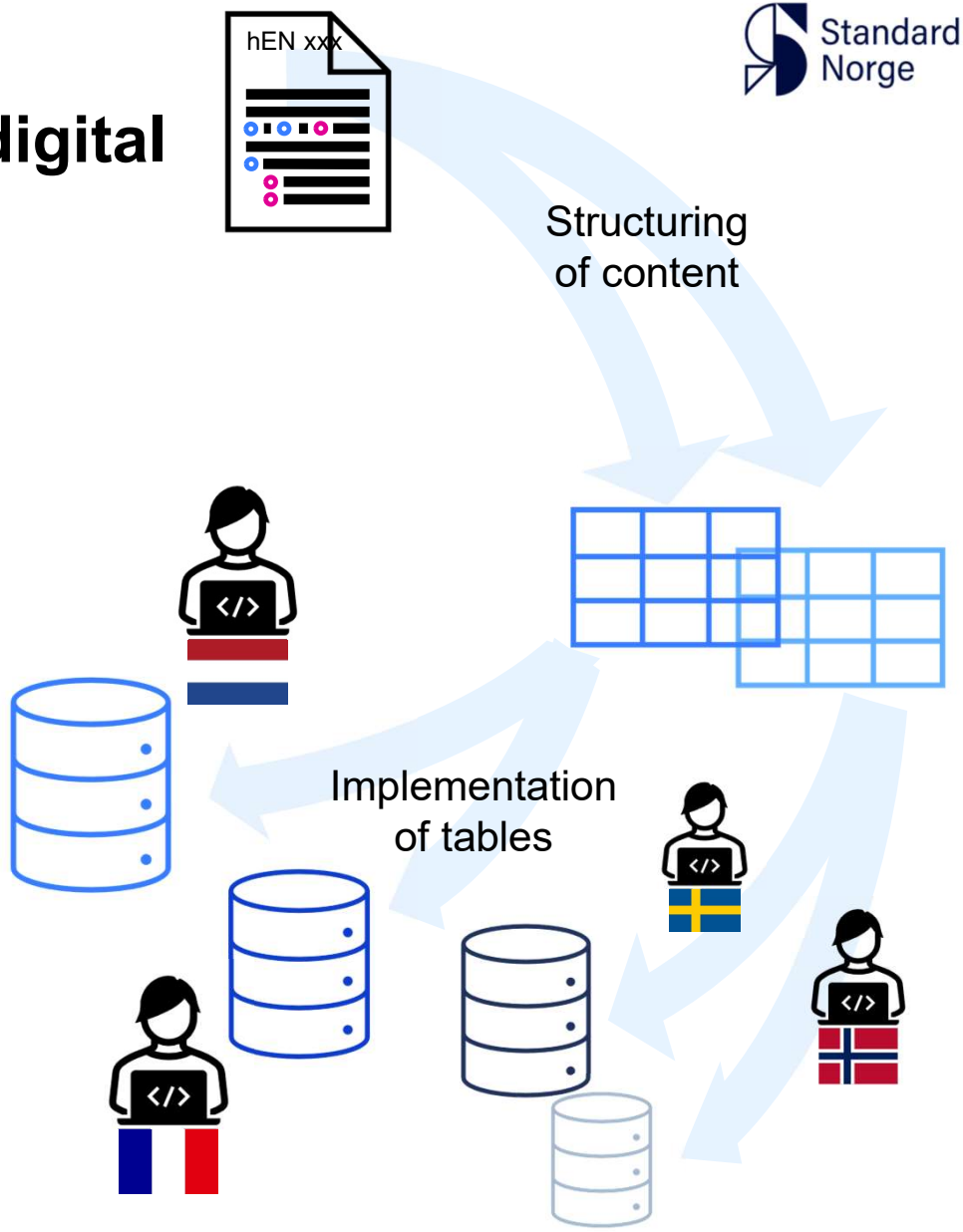
CEN/TC 442
WG 12
Digital DoPC
(«SmartCE»)

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Standard Norge

Challenges going from analogue to digital

- Paper and PDF = multiple interpretations
- One standard may lead to multiple tables
- One table may be implemented multiple times and assigned different identifiers
- Different tables, data identifiers or dictionaries from
  - Countries or NSBs
  - Technical committees
  - Industry organizations
- Risk of duplicates across standards, borders and systems = more chaos and higher cost

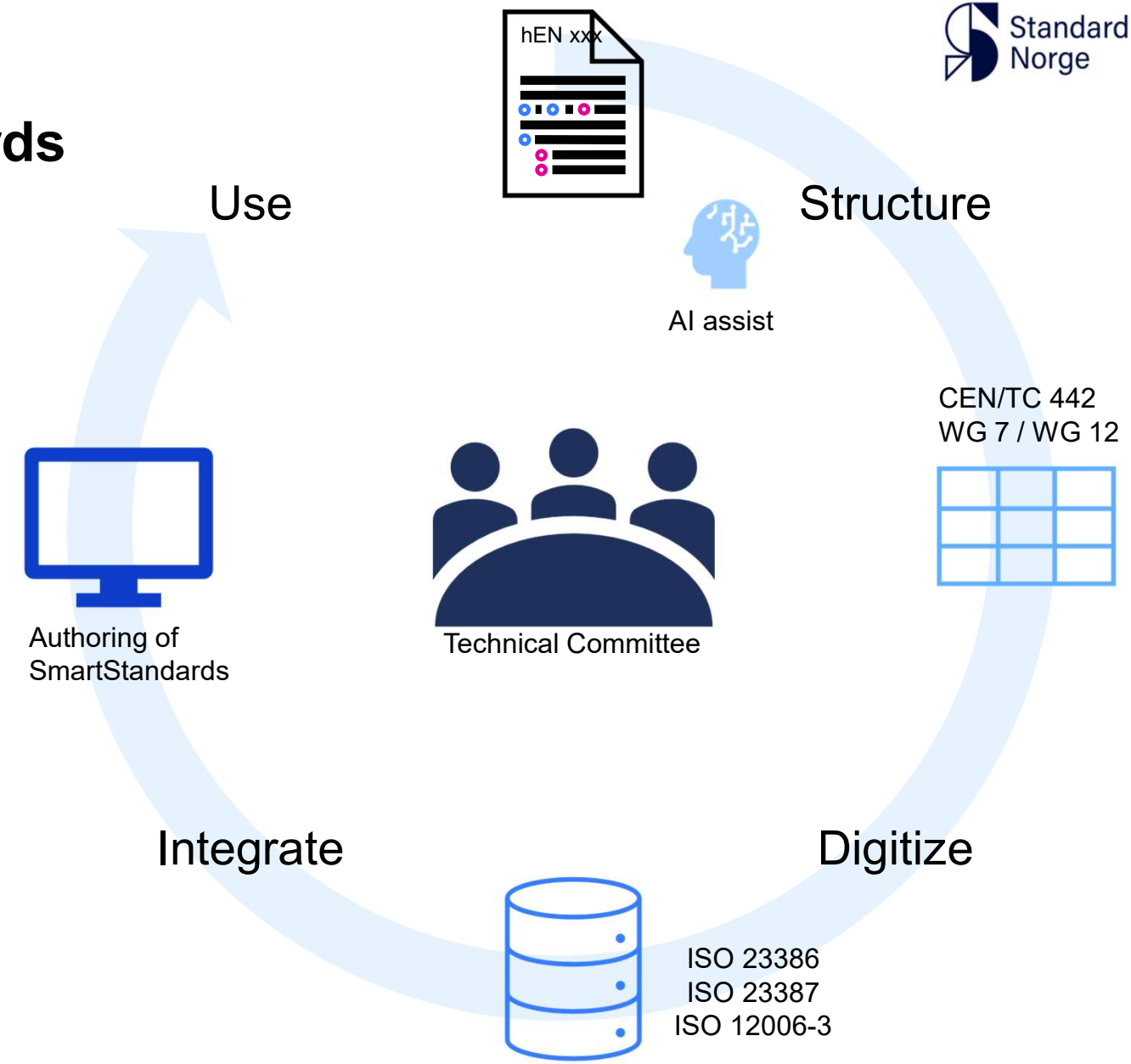


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Standard Norge

How to digitalise standards the “correct” way?

- Pilot project with Standards Norway (owner of standards)
- **Part 1:** Structuring of content into *tables* with AI
- Next parts:
  - Assign identifiers
  - Manage the data dictionary
  - Test integrations of a dictionary with the SmartStandards tool
  - Explore possibilities of integrating dictionaries in smart standards
  - Explore possibilities for other integrations and data flow

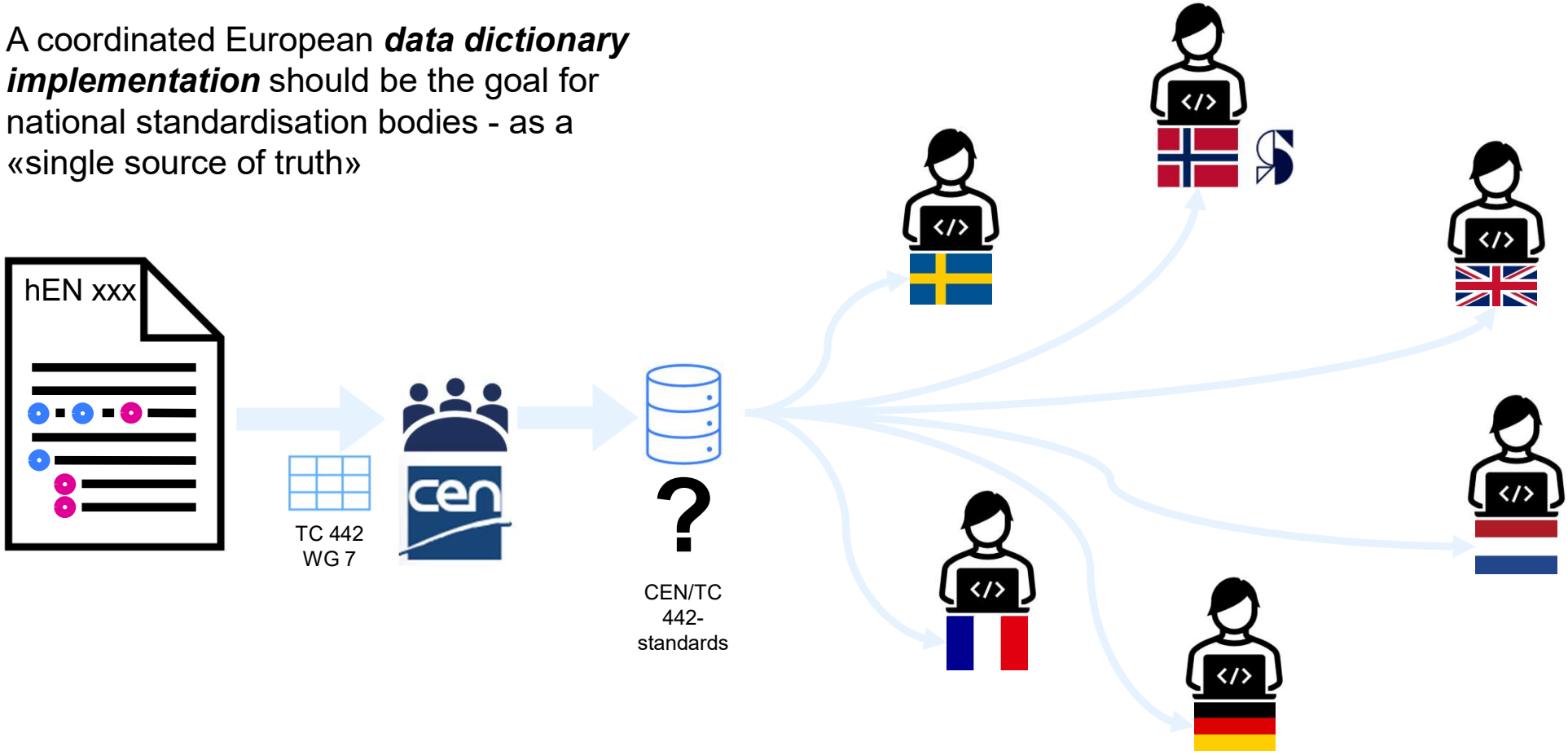


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Standard Norge

Data dictionary – a coordinated approach

A coordinated European ***data dictionary implementation*** should be the goal for national standardisation bodies - as a «single source of truth»



Norwegian Building Authorities and PDT Norway

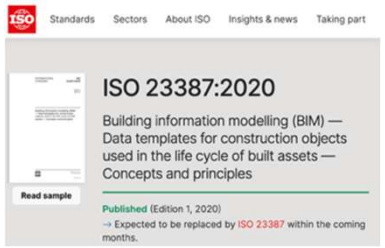
A joint effort for digitalisation

Norwegian Building Authorities has **established standardized data templates and associated structures** as a foundation for reporting and data flows related to:

- Waste management
- Materials suitable for reuse
- Greenhouse gas emissions

Templates are developed in accordance with applicable **ISO standards** and is designed to receive data and **integrate with building permit processes**.

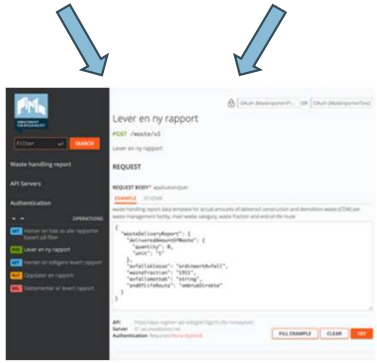
ISO Standard



API Standard

Open API Specification

Swagger



DiBK Reporting Service

We intend to encourage the value chain to harmonize product data in line with international standards, thereby facilitating an efficient and digitalized flow of data

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Way forward and recommendations

- Open and accessible data dictionaries are prerequisites for digitalisation of Europe's construction industry
- A single source of truth for technical properties in standards should be sought through collaboration between EU, CEN/NSB and the industry
- This requires new business models for standards
- PDT Norway is open for collaboration with other national and European initiatives



Digitalization takes collaboration