

European Standardization Organizations

JTC24 – Digital Product Passport – Framework and System

CEN CENELEC JTC24

Convenor: Thomas Knothe,

Secretary CEN CENELEC: Carolina Müller, Secretary DIN: Katharina Sehnert

Hvem er vi?



Martin Schreck

- **DiBK Specialist Director for CPR Acquis**
 - Revision of the Construction Products Regulation, standardisation of constriction products and participant in industry collaboration on product data templates.

Background

- Norwegian representative to the EU Commission DG GROW
- Work within standardization in several groups, member of SN/K027
- Manages a number of expert groups within various product groups as well as associated horizontal groups on sustainability and hazardous substances
- Participant in JTC24 AHG

Espen Schulze

- Cobuilder Group VP Research
 - Head of the Research department
 - Advisor to various digitalization projects in Europe
- Background
 - Expert in numerous standardization projects in CEN/TC 442 and ISO/TC 59
 - Project leader EN ISO 23387 Data templates for construction objects
 - JTC 24 Liaison representing CEN/TC 442
 - Task leader in a Feasibility Study on an EU Database for Construction Products
 - Member of buildingSMART International Product
 Domain Steering Committee

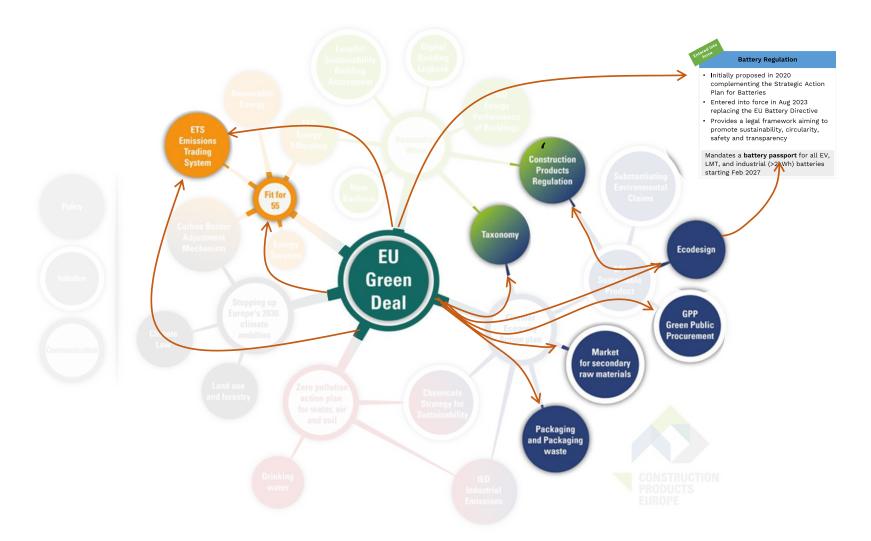
What is the European strategy on sustainability and market competetivnes?





Which ones are most relevant for DPP today?





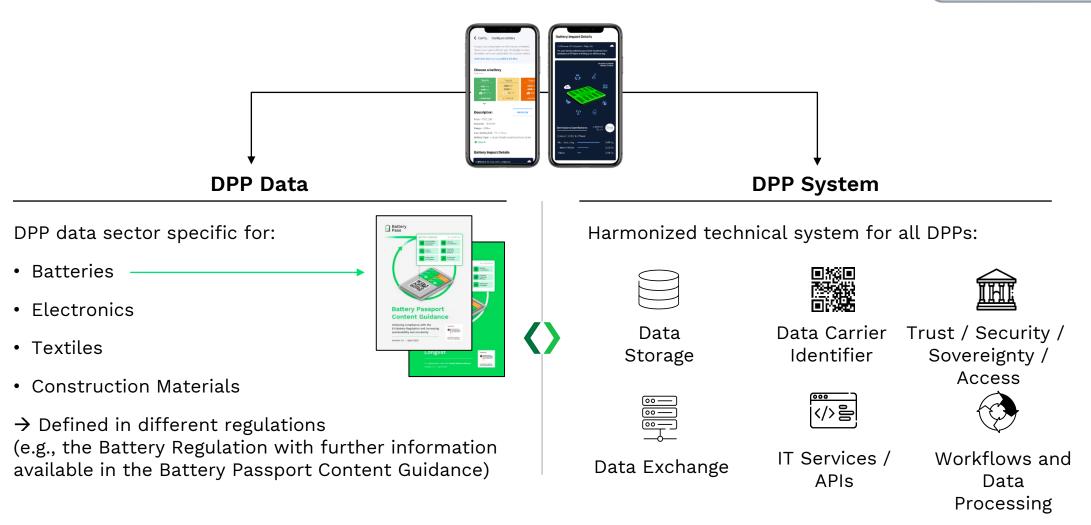
The EU introduces digital product passports (DPP) as part of its broader regulatory ambition towards sustainability with the first being required for batteries from 2027





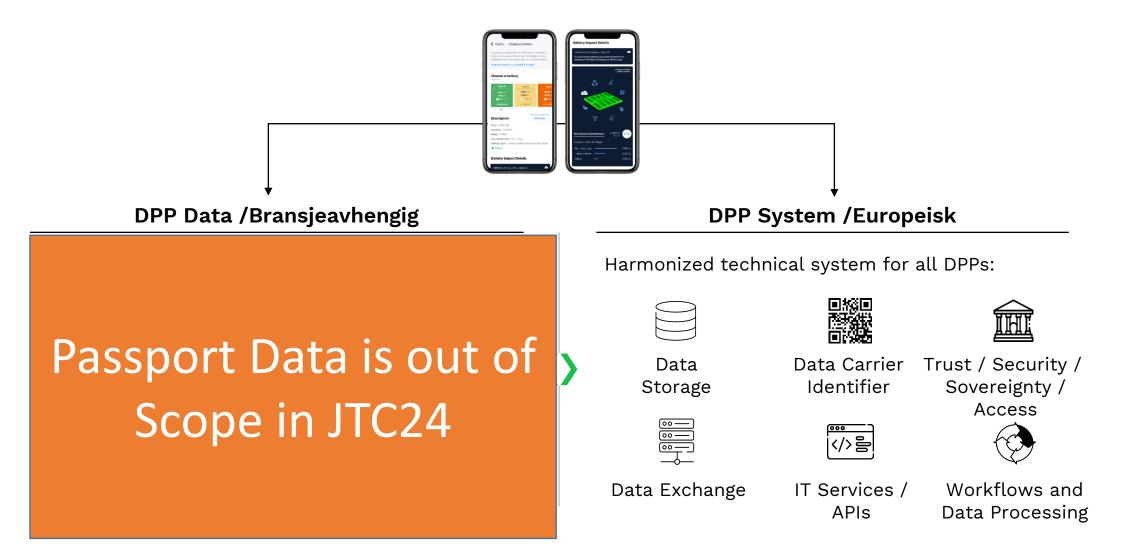
A DPP consist on data and system





System Scope of JTC24 is to deliver harmonised standards for the DPP System





Example of a DPP – the Battery Pass Up to 90 data attributes, clustered into seven categories

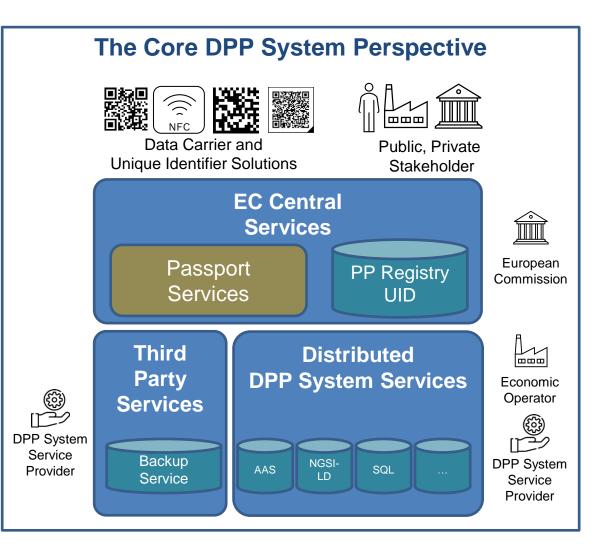


Not exhaustive

Ch Pattory	Labels and certifications ¹	Supply chain due diligence	Circularity & resource efficiency	
Battery Pass	Symbols and labels	Due diligence report	Recycled content shares	
Battery ID: 0101010 Battery passport ID: 1111010	? Meaning of labels & symbols	Materials and composition	Manuals for removal, disassembly, dismantling	
Responsible economic operator General information	Declaration of conformityCompliance of test results	A Hazardous substances	Component part numbers & spare parts information	
Manufacturing info (identity, place, date)		द्भे Battery chemistry	Safety measures/instructions	
(identity, place, date)	Carbon footprint	Critical raw materials	Performance & durability	
Category Battery category	Carbon footprint (5 metrics)	Materials used in cathode,	Capacity, energy, power, SoH	
Battery weight	Weblink to CF study	anode, electrolyte	Expected lifetime	
🗘 Battery status	CF performance class		P Negative events	

Who should be interested into JTC24





European Commission and National Authorities (e.g. Market Surveillance)

Economic Operators, brings products on the market (e.g. manufacturers, importers)

DPP System and Service Providers (e.g. for operating services, backup services)

DPP System Component Suppliers (e.g. for Data Carrier)

Partners in the value chain (e.g. supplier, dealer, recycler) to know how data has to be provided, how to get access

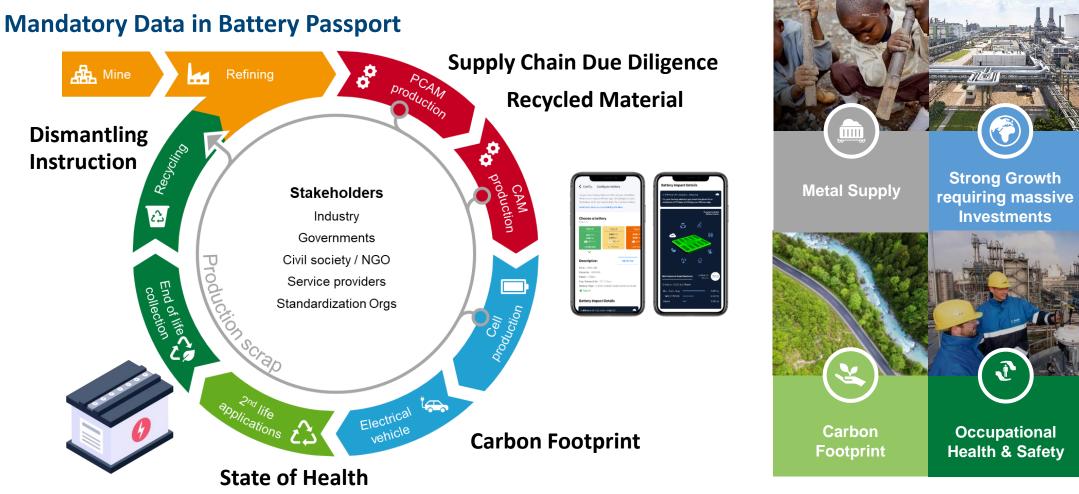
Standardisation Bodies (e.g. for sector specific data standardisation)

Consumer Organisations to ensure applicability of DPP

Why Circularity requires Digital Product Passport (DPP)?



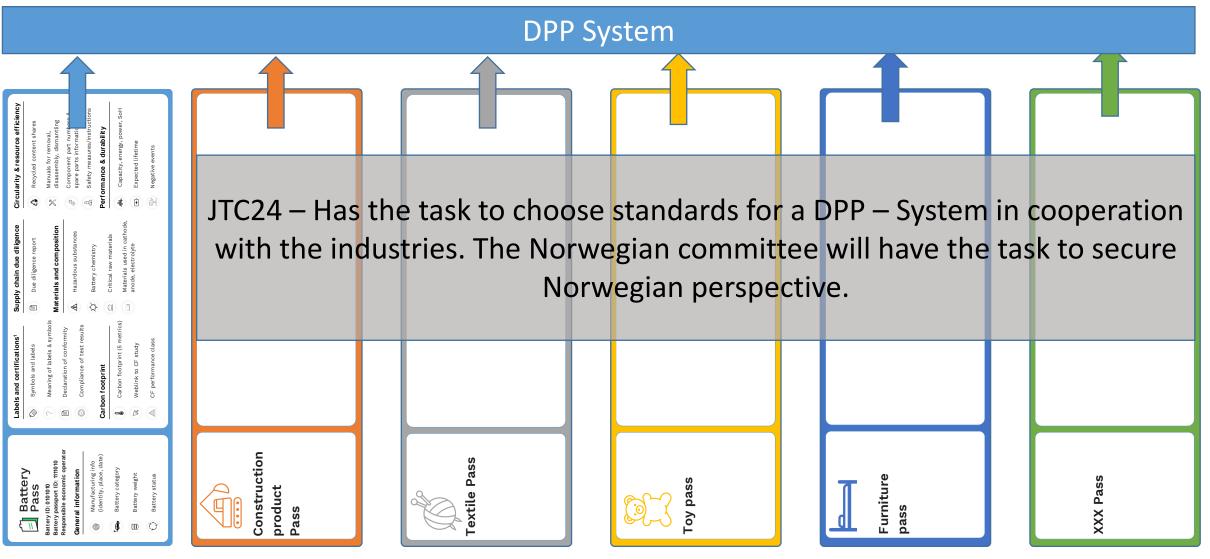
Combine circularity with the other sustainability aspects – example batteries



Source: BASF, Torsten Freund

Frame work system foundation for sectorspecific digital product passport

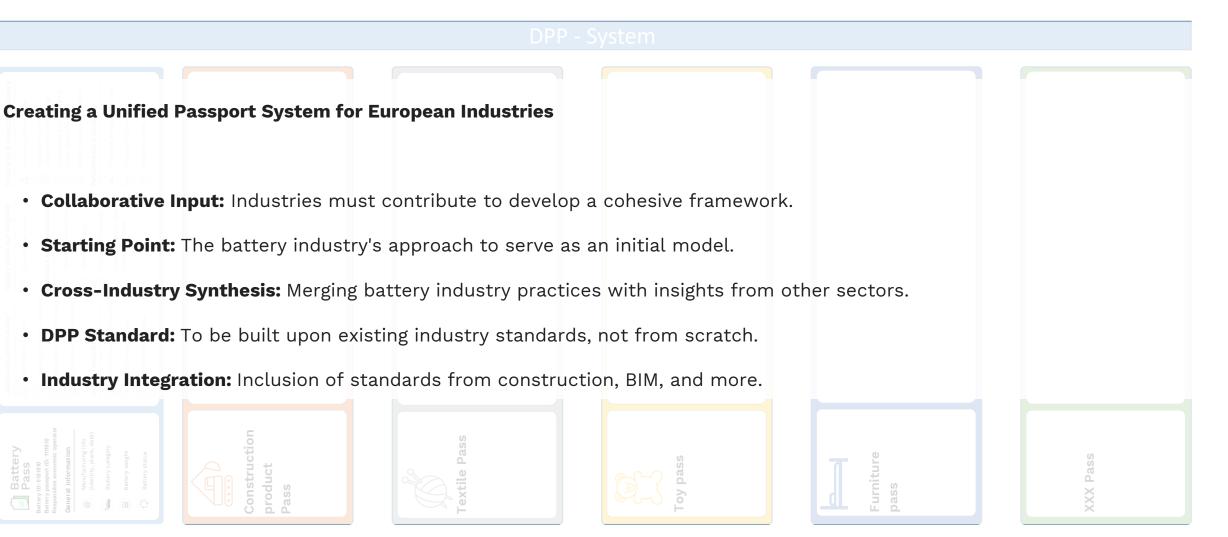




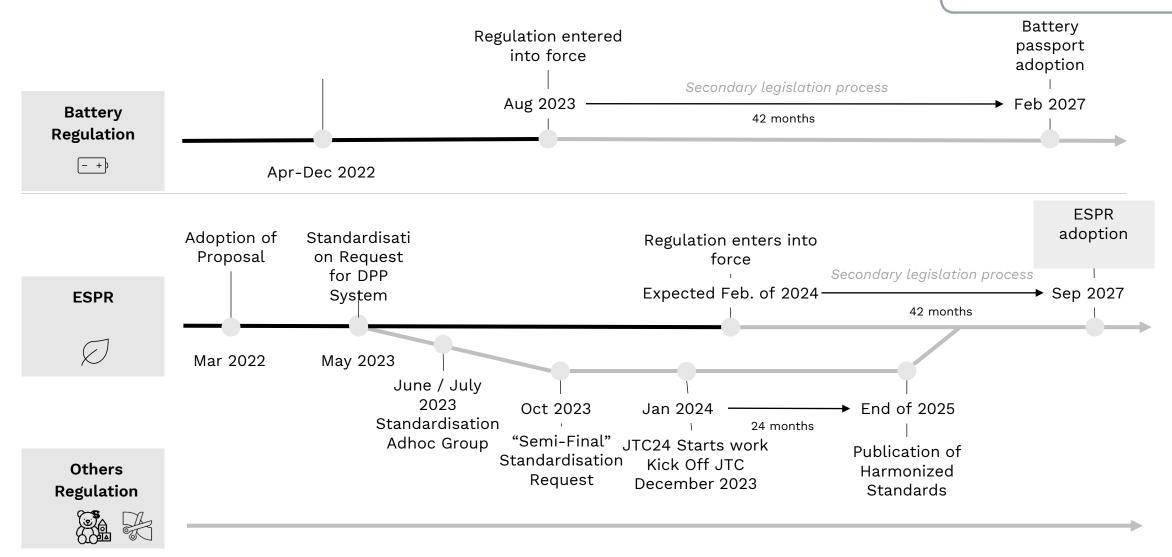
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The task for JTC 24





Tough Timeline for Standardisation



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List of Standards to be delivered by JTC24



List of European standards to be drafted and deadlines for their adoption as referred to in Article 1

	Reference information	Deadline for the adoption by the ESOs	
1.	European standard(s) on unique identifiers	31 December 2025	
2.	European standard(s) on data carriers and links between physical product and digital representation	31 December 2025	
3.	European standard(s) on access rights management, information, system security, and business confidentiality	31 December 2025	
4.	European standard(s) on interoperability (technical, semantic, organisation)	31 December 2025	
5.	European standard(s) on data processing, data exchange protocols and data formats	31 December 2025	
6.	European standard(s) on data storage, archiving, and data persistence	31 December 2025	
7.	European standard(s) on data authentication, reliability, integrity	31 December 2025	
8.	European standards on Application Programming Interfaces (APIs) for the product passport lifecycle management and searchability	31 December 2025	

How to participate into JTC24



Provisional Work Group Overview					Technical Exp	
Advisory group	Technical coordination	System elements			standards (hE - Select and	
Work group 1	Work group 2	Work group 3	<u>Work group 4</u>	Work group 5	ElaborateElaborate	
Facilitate, coordinate and excgange between working groups	Use cases	Unique Identifier for Product	Individual decentral Data Repository	API for CRUD (Create, read, update, delete) of data	Convener of	
allocation of new work	System architecture	Unique Identifier for Economic Operator	System for (role /function/attribute- based) access rights management	Querying of Passport Data	Part of Liaiso	
coordinate the development of work program	Liaisons	Unique Identifier for Facilities	Verification of authentication	Back Up Data Base	Meetings Plenary Meet	
Progress monitoring	Interaction with sector specific data standardisation	Data Carrier	Verification of DPP conformance	Data Modelling:	Work Group	
clarify non-technical issues	Interaction with EC	Registry	Cryptographic verification of DPP (digital signature check)	DPP Issuing Service	Time Frame JTC24 – 5 Yea Delivery of hE	
		Routing Services	Data verification of data integrity and originality Logging Monitoring	Data modelling services Schema Definition		

Technical Expert for elaborating harmonised standards (hEN) for system elements

- Select and adopt existing standards
- Elaborate interoperability solutions
- Elaborate new standards

Convener of Working Groups (WG)

Part of Liaison Organisations (e.g. ETSI)

Plenary Meeting – 4 times/year – Decisions Work Group Meetings - Elaboration

JTC24 – 5 Years Delivery of hEN until end of 2025