

European Standardization Organizations

JTC 24 – Digital Product Passport – Framework and System

CEN CENELEC JTC 24

Chair: Thomas Knothe, Co-Chair: Thomas Rödding

Secretary CEN-CLC JTC 24: Samarkhel-Khan Yahya (DIN)

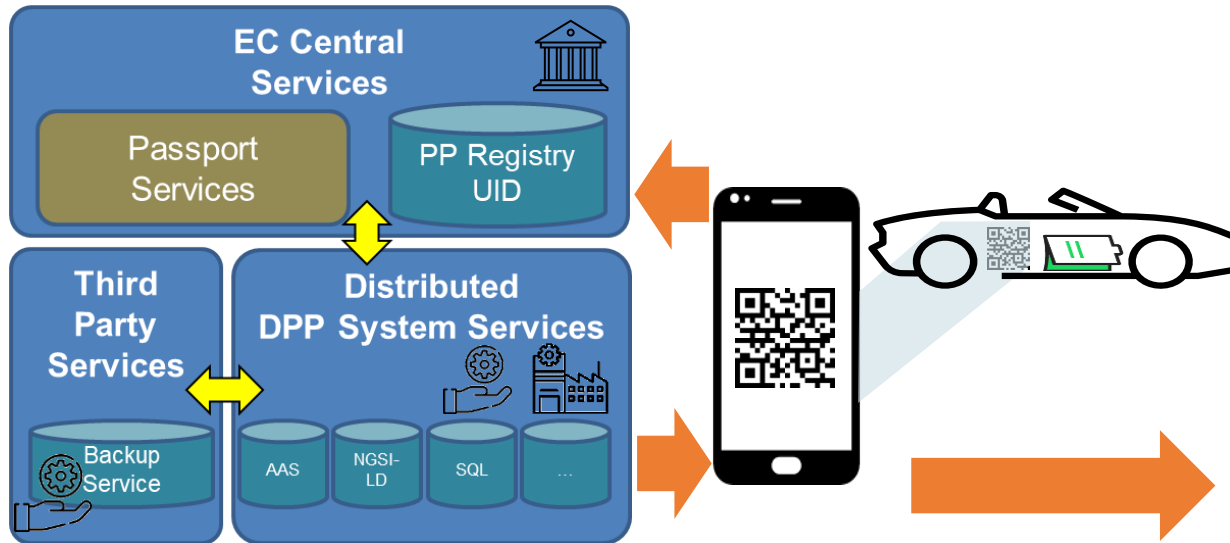
Project Manager CEN CENELEC: Benjamin DeVille (CCMC)

A small theoretical Input – How the EU DPP is working Example Battery Pass?

Customers, Partners and Authorities receive dedicated digital Information from product life



Example Battery Pass



107 Data Points around the product Life



Selection of mandatory Data

Battery ID: 0101010

General information



Manufacturing info
(identity, place, date)



Compliance Labels Certificates



Circularity



Supply Chain Due Diligence



Carbon Footprint



Manuals



State of Health



Typical voluntary Data

Battery ID: 0101010



Benchmarks



Repair Manual



Spare Parts



Connected Products



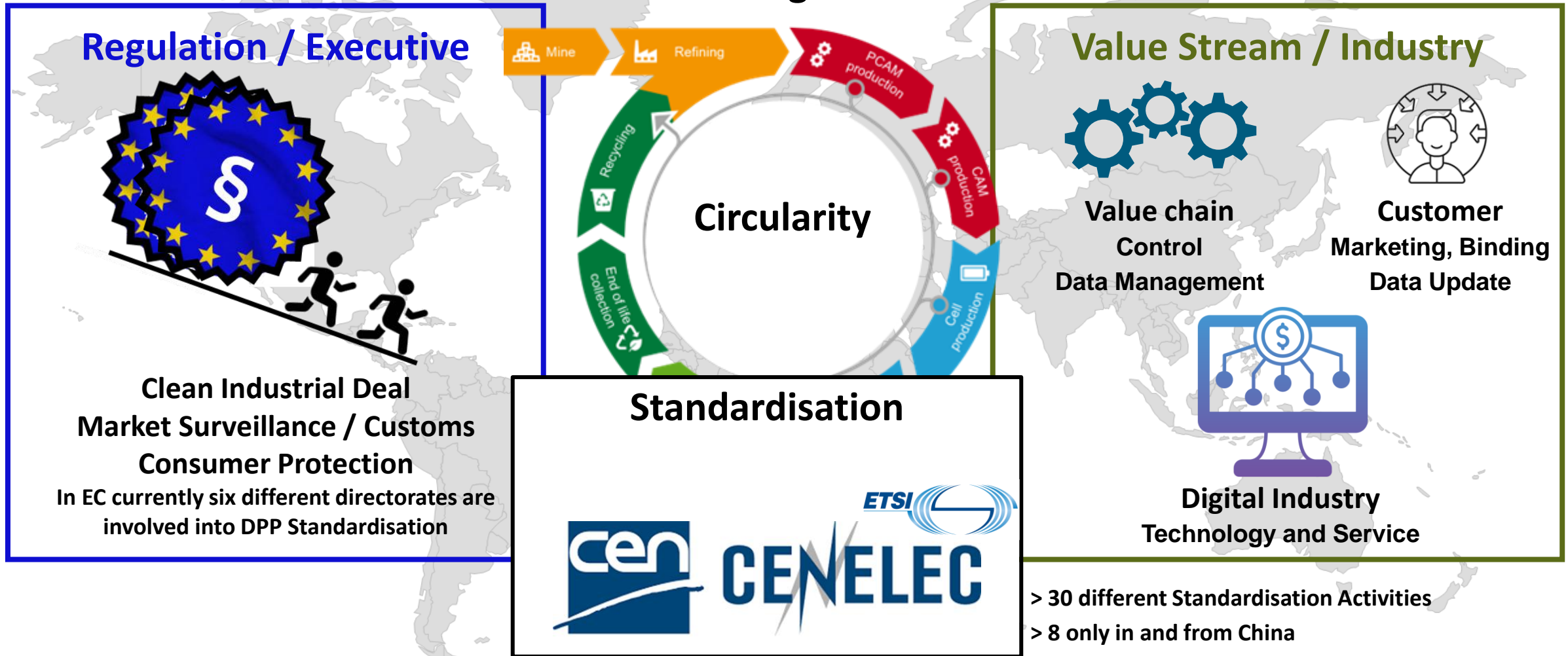
Service Centres



Upgrades

DPP Orientation – Helicopter View

Global Alignment



Why DPP are electrifying

Global und regional economy as well as politics meet Chances and Risks for Enterprises

Clean Industrial Deal - Regulation

Ecodesign for Sustainable Product Regulation (ESPR)

Centralized Regulation of Green Deal

Battery Regulation
From Feb. 2027
mandatory
Provision required

ESPR and other Regulations require EU DPP for most of the products to be established on the market

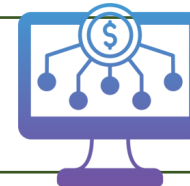
Cars: ZEV3, EoL-V, RED III, ESPR (z.B. Tyres), Euro7



Efficiency - Digitization - Business

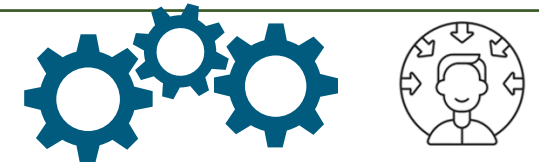
Market Volume

for Tech-Giants and in the niche
(app.300.000 cars/day)



Digitization

DPP supports digital integration, horizontally and vertically



Technology Push

Next chance for existing and upcoming technologies
(z.B. Blockchain, Data Spaces)

New Opportunities

e.g for personalized advertisement, know, whats happen with the product after sales.

European Standard (EN) / harmonized European Standard (hEN)



EN

**Increase
Products safety and quality**

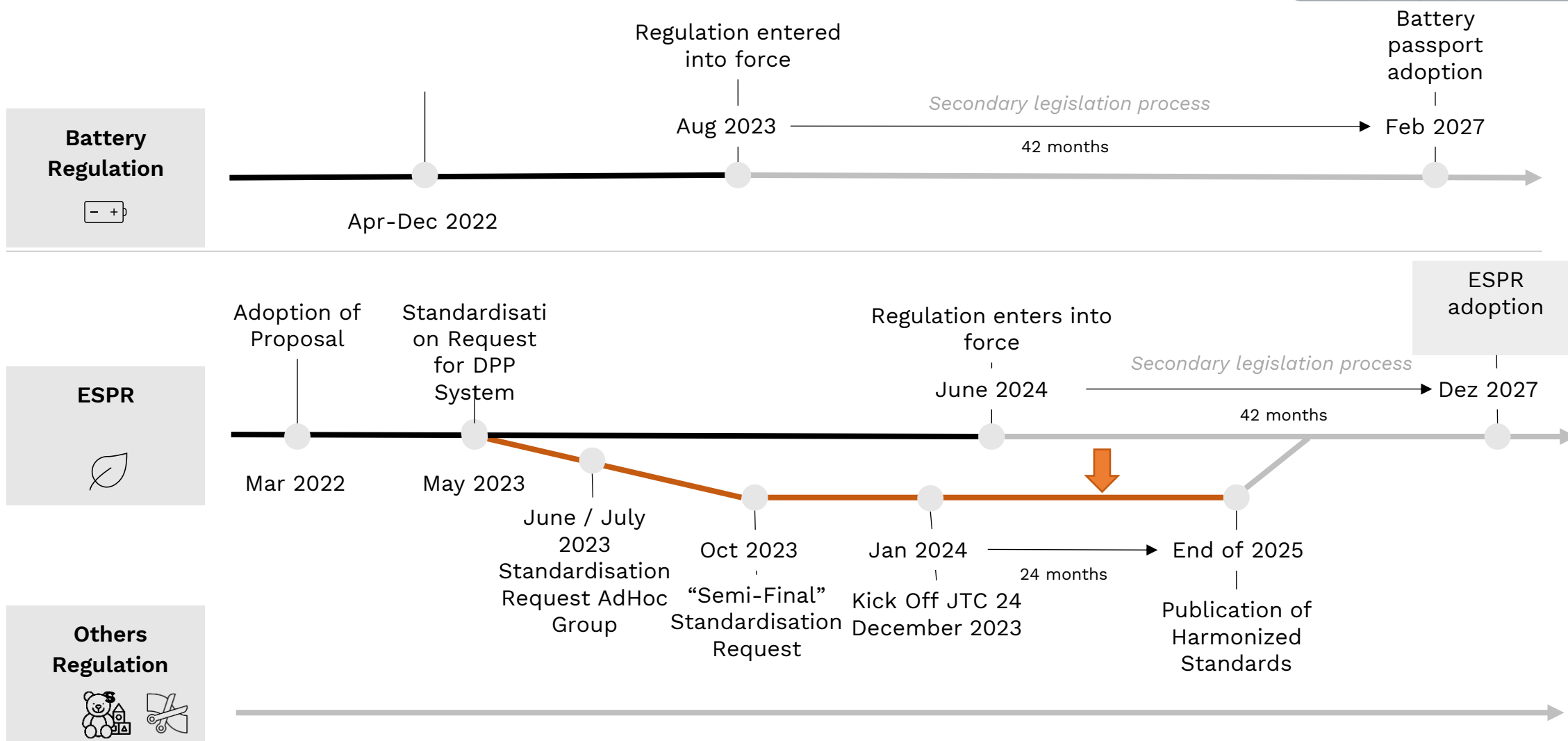
Lower  
Transaction costs and prices 

hEN

To demonstrate presumption of
conformity regarding
relevant EU legislation
of products, services and process
(listed in official journal of EU)



Tough Timeline for Standardisation



CEN CLC JTC 24 “Digital Product Passport Framework and System”

Objectives

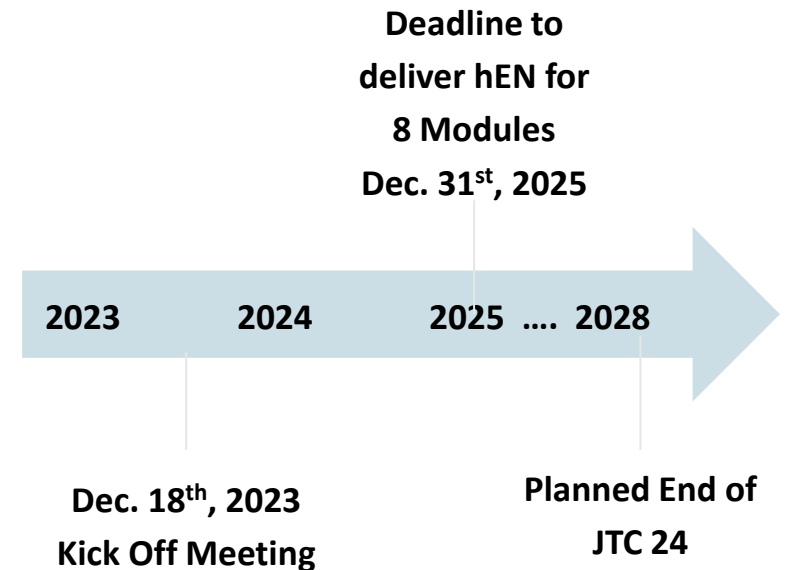
Fulfill the **Standardization Request (SReq)** to define **harmonized standards for the DPP System** according to **Ecodesign for Sustainable Products Regulation (ESPR)** **Battery Regulation + ...**

Participants

Appr. 300 Experts in Delegations from 20 Member States + Switzerland, UK, Norway

Currently 32 Liaisons requests (European and Global)

Timing

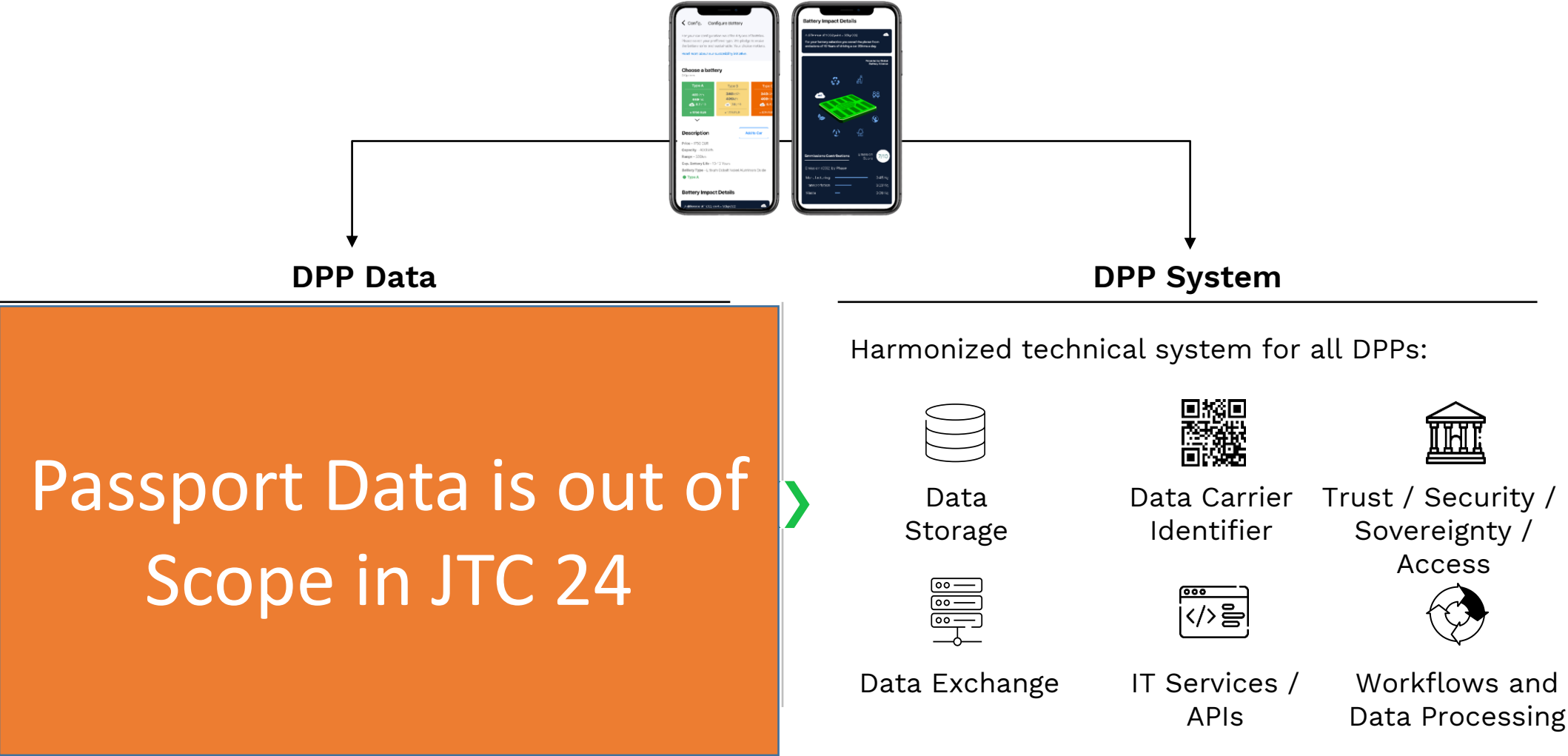


Most product groups require a DPP and are affected by JTC 24, except food, animal food, pharmaceutical

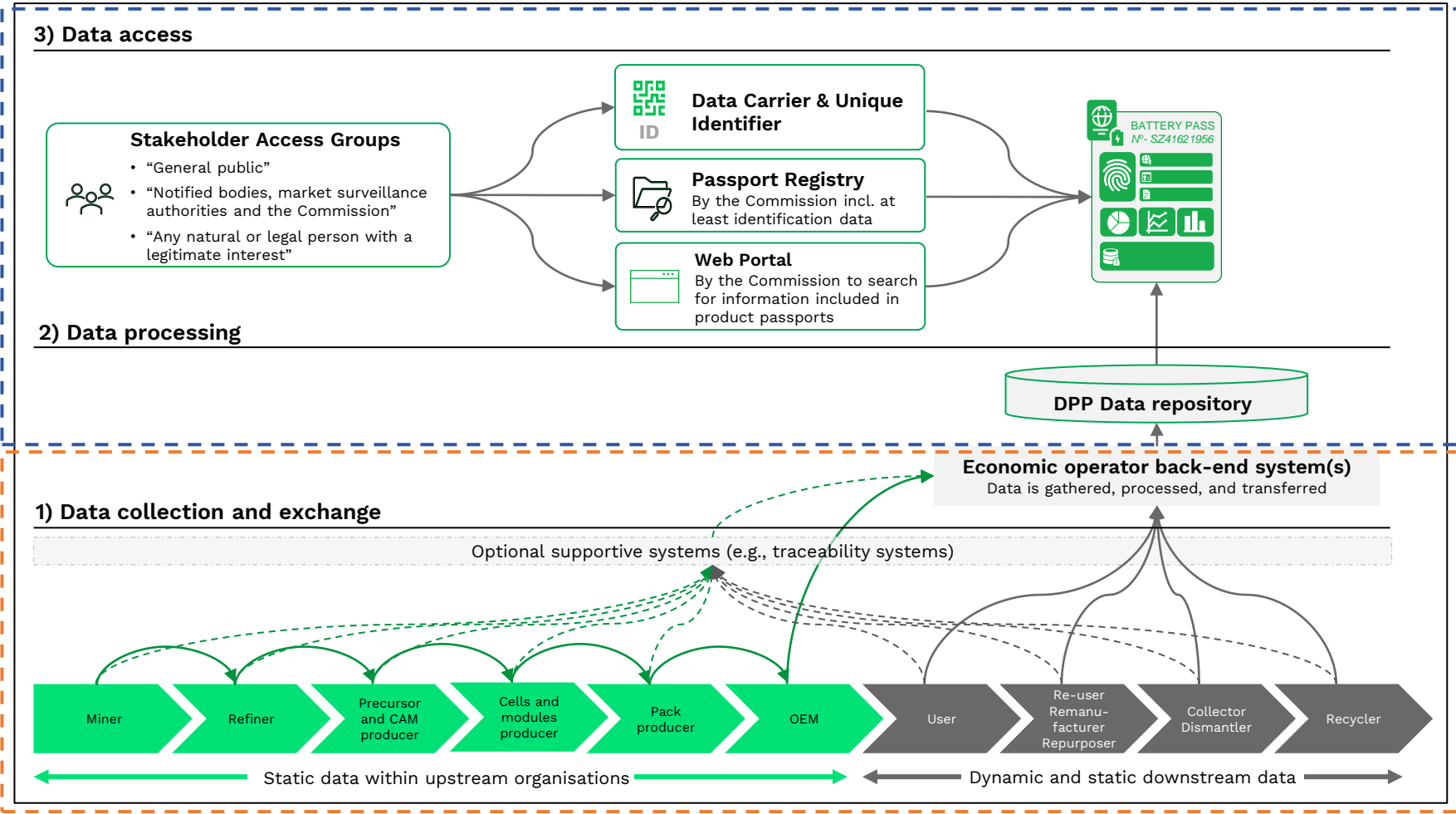
Main Regulations
ESPR
Batteries (Traction and industry)
Toys
Detergents
Construction Materials
Critical Raw Materials

Iron & steel
Aluminium
Textile, notably garments and footwear
Furniture, including mattresses
Tyres
Detergents
Paints
Lubricants
Chemicals
Energy related products
ICT products and other electronics

System Scope of JTC 24 is to deliver harmonised standards for the DPP System



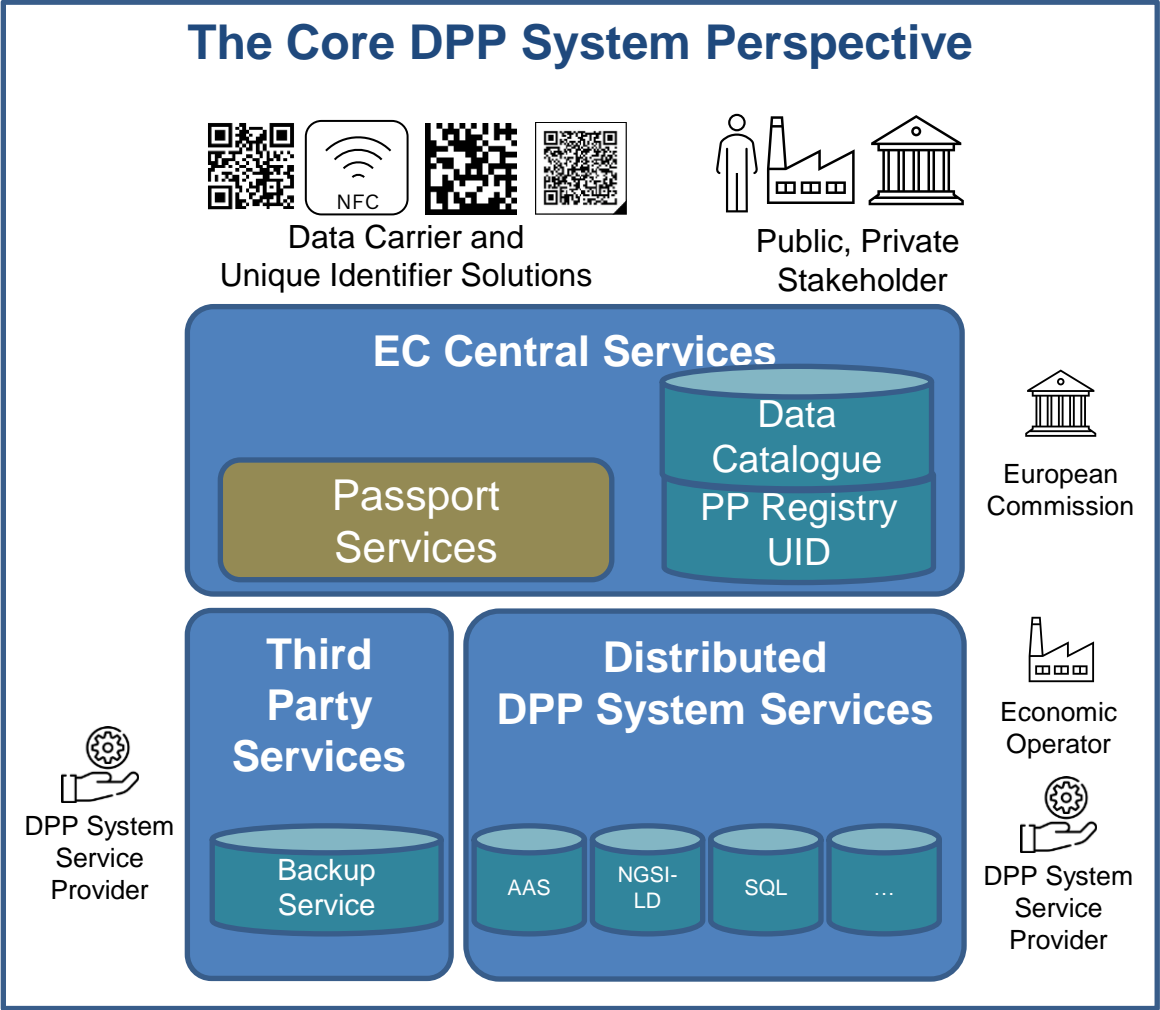
Process Scope of JTC24



Scope in JTC 24:
Data Access,
Data Processing

Out of Scope in JTC 24:
Data Collection and
aggregation

Organisation Scope : Who should be interested into JTC24



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

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

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

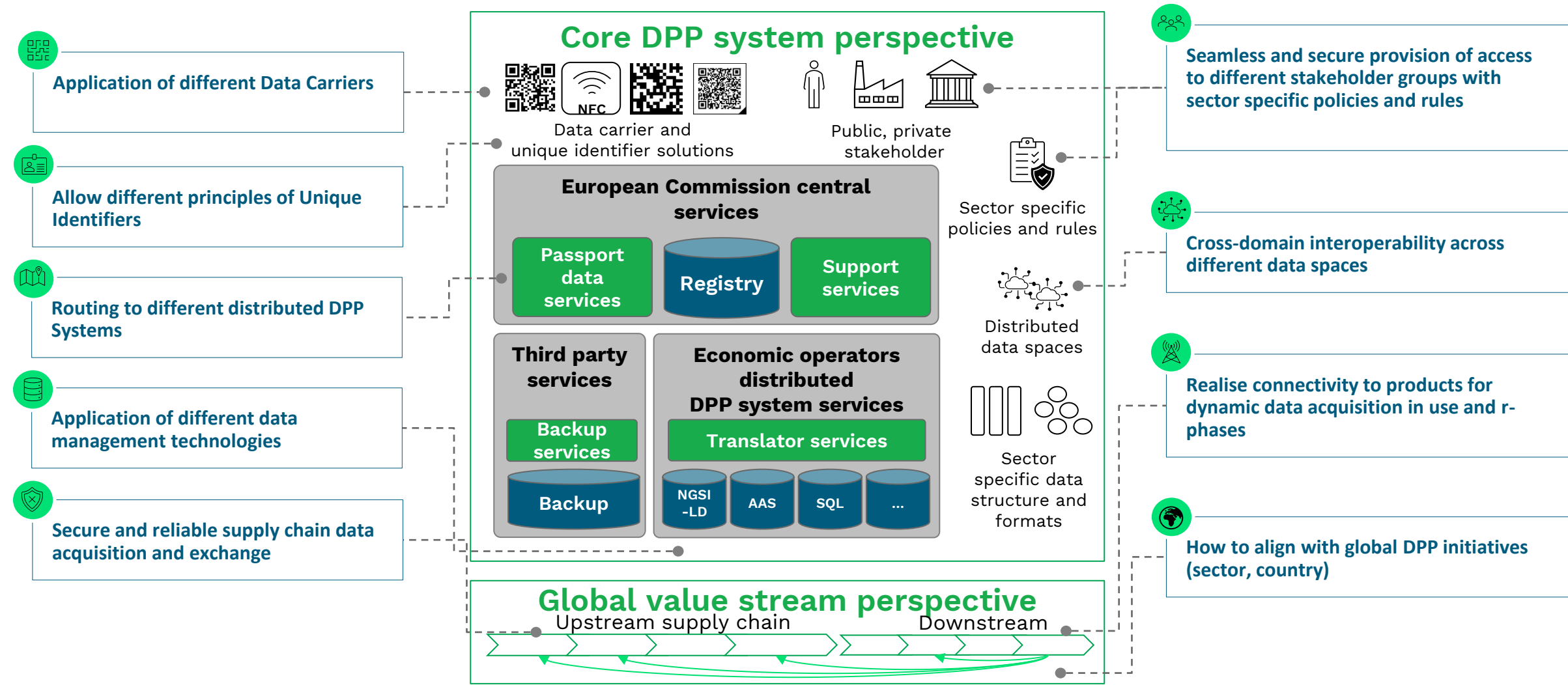
DPP System Component Suppliers
(e.g. for Data Carrier)

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

Major Interoperability Goal – Co-existence of standards/technologies



How to participate in JTC 24



Work Group Overview

Strategic Advisory	Unique identifiers and data carriers	Security	Interoperability framework
<u>Work group 1</u>	<u>Work group 2</u>	<u>Work group 3</u>	<u>Work group 4</u>
Facilitate, coordinate and exchange between working groups	Unique Identifier for Product	Individual decentral Data Repository	API for CRUD (Create, read, update, delete) of data
Liaisons	Unique Identifier for Economic Operator	System for (role /function/attribute-based) access rights management	Querying of Passport Data
Clarify non-technical issues	Unique Identifier for Facilities	Verification of authentication	Back Up Data Base
Interaction with sector specific data standardisation	Data Carrier	Verification of DPP conformance	Data Modelling:
Business plan	Registry	Cryptographic verification of DPP (digital signature check)	DPP Issuing Service
	Routing Services	Data verification of data integrity and originality	Data modelling services
		Logging Monitoring	Schema Definition

- Technical Expert** for elaborating harmonised standards (hEN) for system elements
- Select and adopt existing standards
 - Elaborate interoperability solutions
 - Elaborate new standards

Meetings
Plenary Meeting – app. 3 times/year
Work Group Meetings – Elaboration – weekly
Alignment with European Commission - monthly

Time Frame
Delivery of hEN until end of 2025

Status Workgroups

<div>WG 1</div> <div>Strategic Advisory Group</div> <div>Convener: Martin Schreck (SN)</div> <div><ul style="list-style-type: none">Common Time Line elaboratedSystem Picture (Architecture) elaboratedUse Cases and User Stories elaboratedBusiness PlanLiaisonsMonthly Update with EC</div>	<div>WG 2</div> <div>Unique identifiers and data carriers</div> <div>Convener: Johan Dahlgren (SIS)</div> <div><ul style="list-style-type: none">NWIP for Data Carrier and Unique Identifier establishedDrafts for Data Carrier and Unique Identifier elaborated</div>	<div>WG 3</div> <div>Security</div> <div>(Torgeir Waterhouse, SN)</div> <div><ul style="list-style-type: none">NWIP establishedConvenor appointed and approvedDrafts realized in February 2025</div>	<div>WG 4</div> <div>Interoperability framework</div> <div>Convener: Otto Handle (ASI) Co-Convener: Richard Merkel (DIN)</div> <div><ul style="list-style-type: none">NWIP established for all related modules:<ul style="list-style-type: none">Data processing and exchangeData storageAPIData ModellingFirst Drafts elaborated in December 2024</div>
Complete Drafts expected for official assessment end of March 2025			

Thank you very much



Chair JTC 24
Thomas Knothe
thomas.knothe@ipk.fraunhofer.de



Co-Chair JTC 24
Thomas L. Rödding
thomas.roedding@narravero.com

www.cencenelec.eu

Follow us:    

Tag us @standards4EU

Secretary JTC 24
Samarkhel-Khan Yahya
samarkhel-khan.yahya@din.de