



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: Katharina Sehnert (DIN)

Project Manager CEN CENELEC: Benjamin DeVille (CCMC)

Digital product passports (DPP) as part of European broader regulatory

European Green Deal

EU Plan: climate-neutral by 2050, safeguard biodiversity, establish a circular economy and eliminate pollution, while boosting the competitiveness of the European industry

Entered into force

Ecodesign for Sustainable Product Regulation (ESPR)

- Proposed in Mar 2022, as central part to the Commission's strategy for eco-friendly and circular products
- Aims to promote environmental sustainability across a broader range of products

Requires **digital product passports based on harmonized European Standards (hEN)**

Entered into force

Battery Regulation

- Entered into force in Aug 2023 replacing the EU Battery Directive
- Provides a legal framework aiming to promote sustainability, circularity, safety and transparency

Mandates a **battery passport** for all EV, LMT, and industrial (>2kWh) batteries starting Feb 2027

Proposal

End-of-Life Vehicle Regulation

- Proposed in Jul 2023
- Will replace the End-of-life Vehicle Directive
- Governs the entire vehicle lifecycle, from design to end-of-life treatment

Mandates a **circularity vehicle passport**

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)



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)

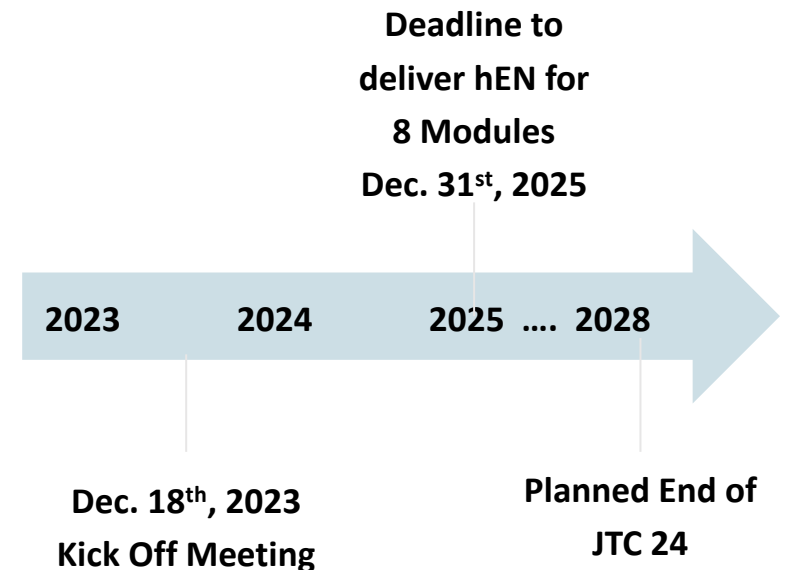
Battery Regulation + ...

Participants

Appr. 140 Experts in Delegations from 20 Member States + Switzerland, UK

Currently 24 Liaisons requests (European and Global)

Timing



Standardization Request - Scope



- ▶ Module 1 : Unique identifiers
- ▶ Module 2 : Data carriers and links between physical product and digital representation
- ▶ Module 3 : Access rights management, information, system security, and business confidentiality
- ▶ Module 4 : Interoperability
- ▶ Module 5 : Data processing, data exchange protocols and data formats
- ▶ Module 6 : Data storage, archiving, and data persistence
- ▶ Module 7 : Data authentication, reliability, integrity
- ▶ Module 8 : APIs for the DPP lifecycle management and searchability

Scope of JTC 24 - META Structure

★ EC foresee implementing acts for this elements – need interfaces

CEN CLC JTC 24 – Delivery Structure

Module 8 : APIs for the DPP lifecycle management and searchability

Module 3 : Access rights management, information, system security, and business confidentiality

Module 7 : Data authentication, reliability, integrity

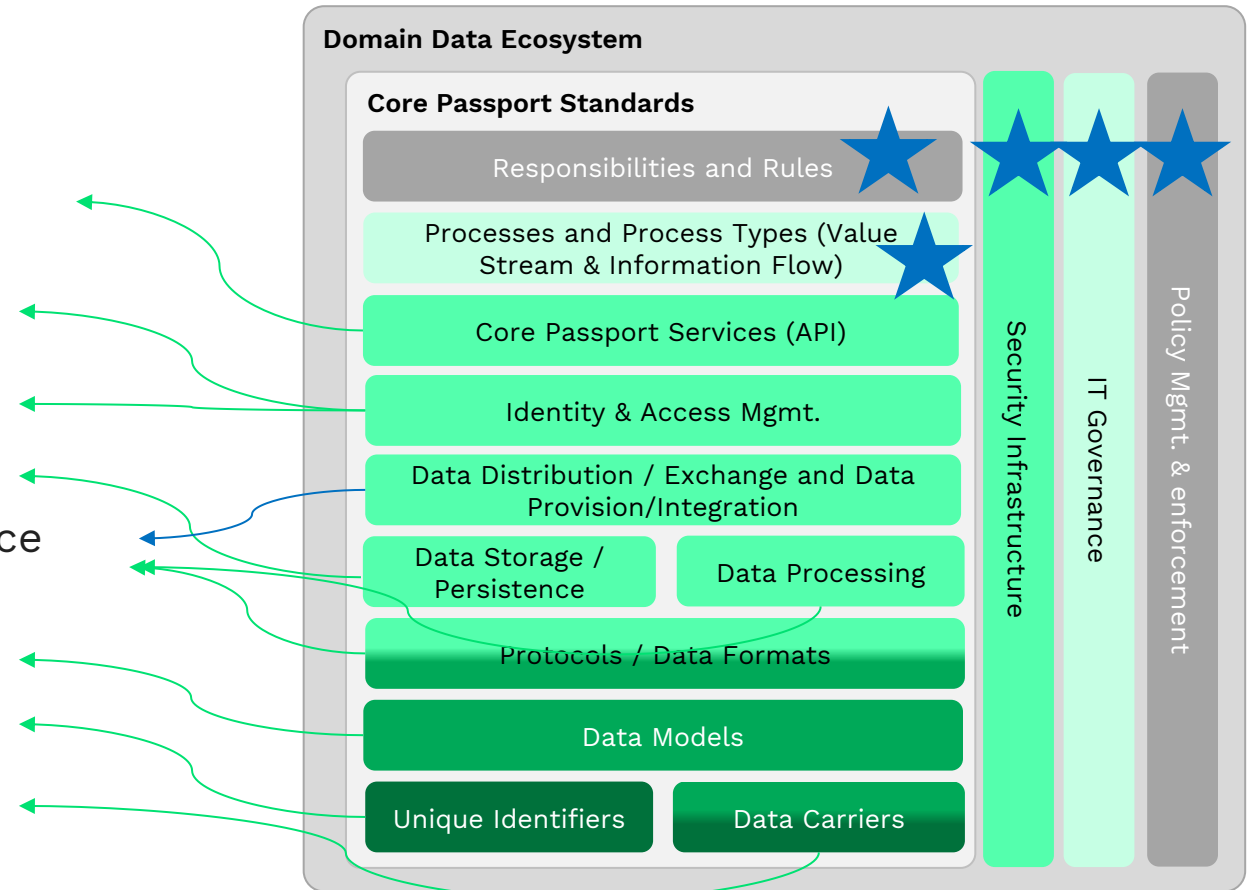
Module 6 : Data storage, archiving, and data persistence

Module 5 : Data processing, data exchange protocols and data formats

Module 4 : Interoperability

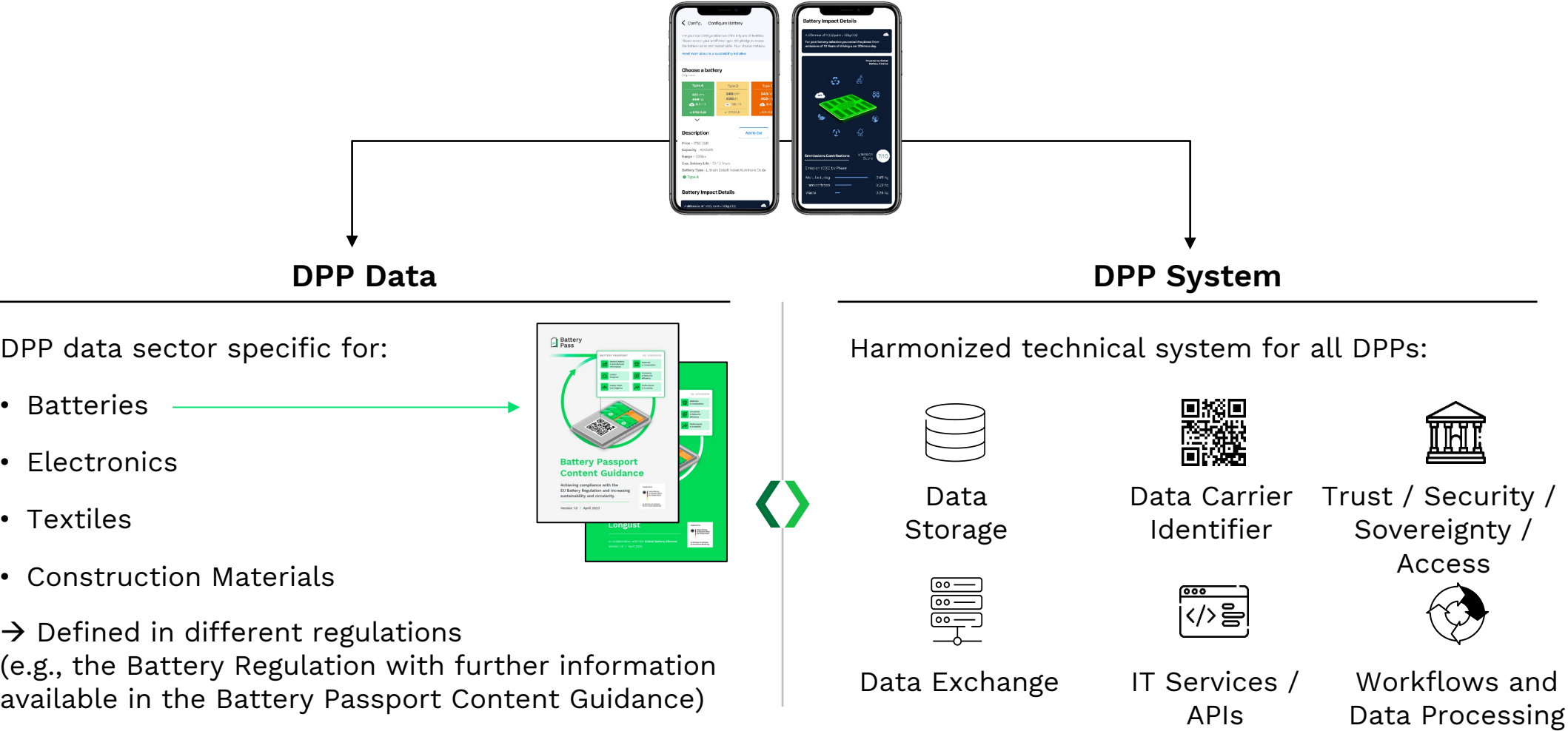
Module 1 : Unique identifiers

Module 2 : Data carriers and links between physical product and digital representation

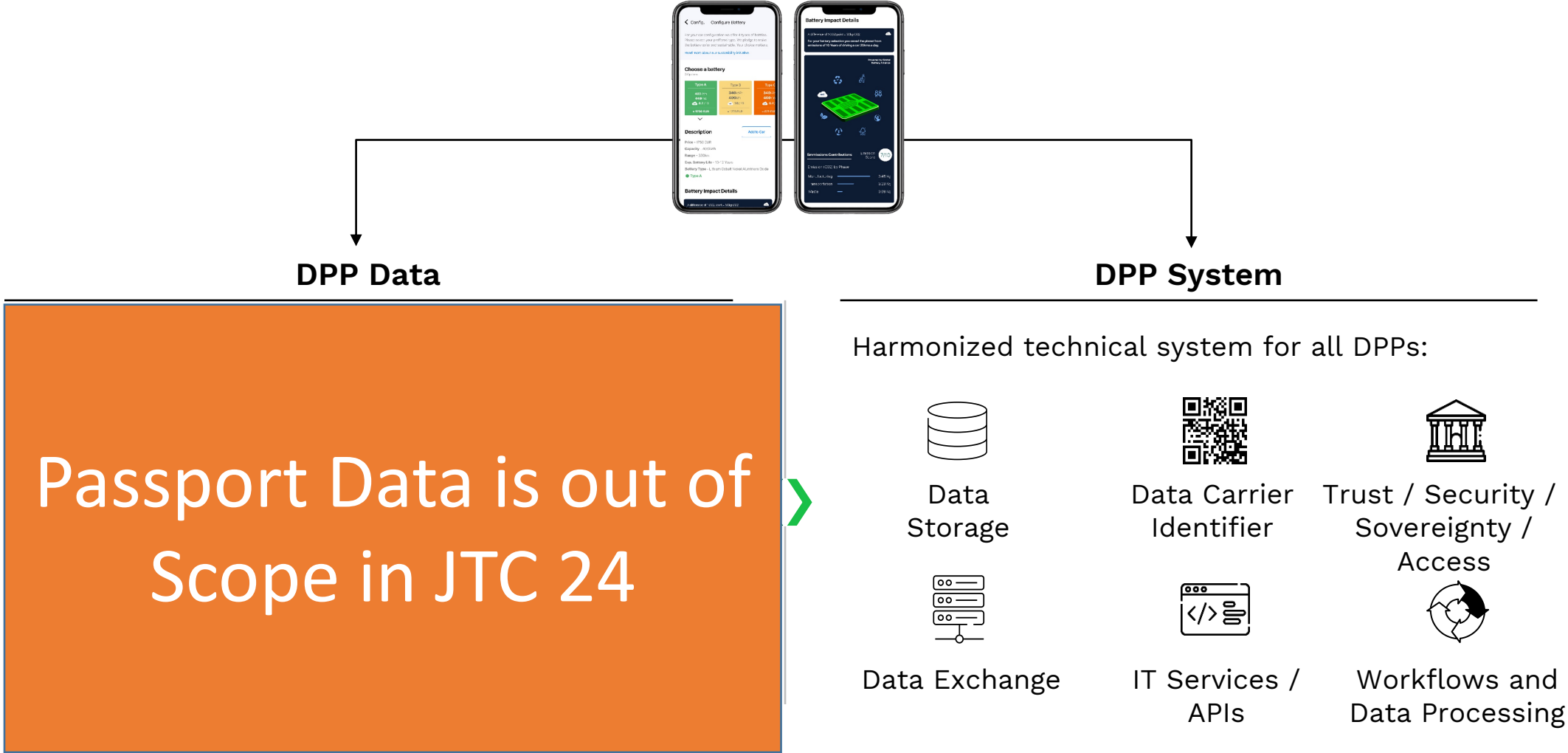


Meta Structure based on ISO 11354
From Battery Pass Project

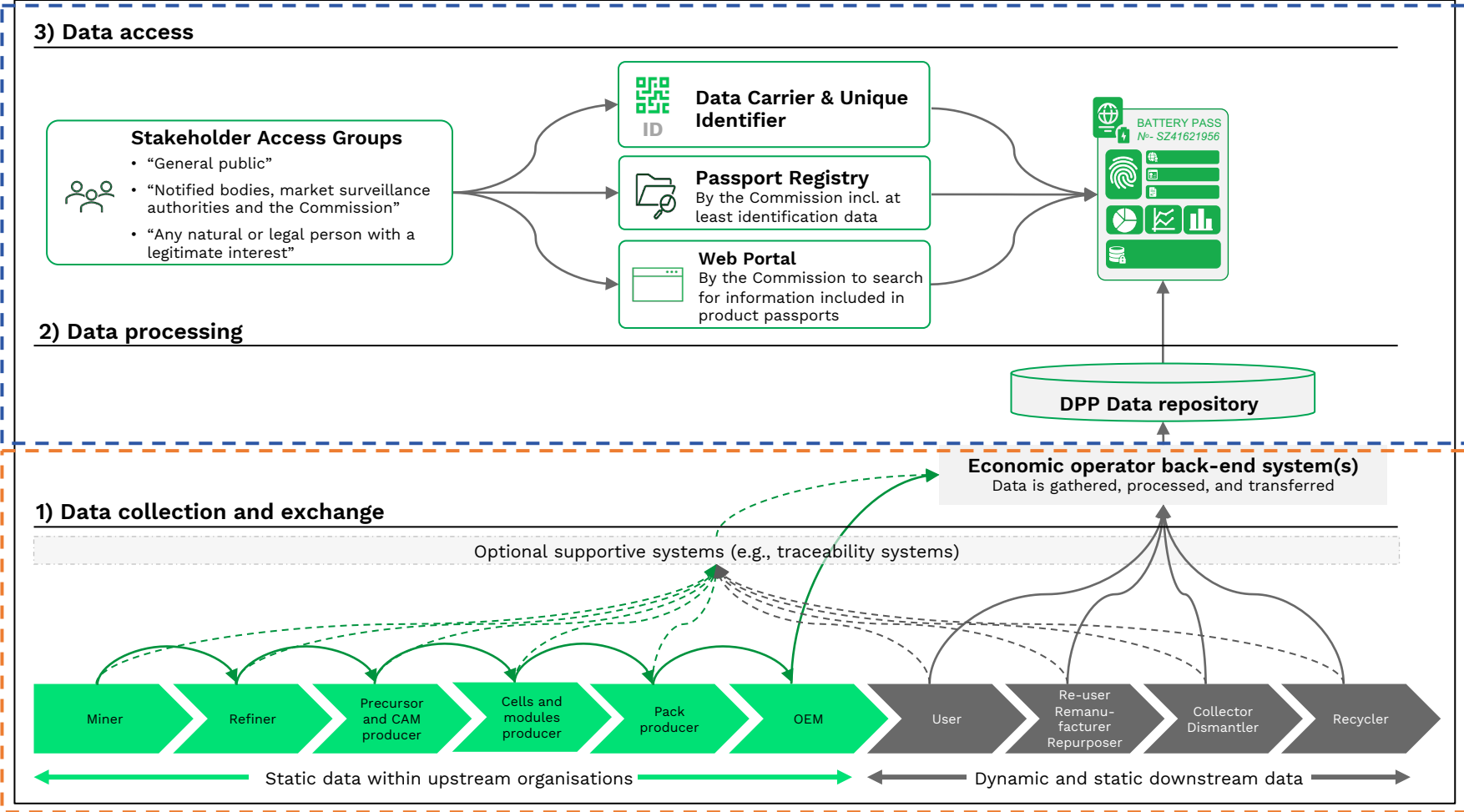
System Scope of JTC 24 is to deliver harmonised standards for the DPP System



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



Process Scope of JTC24

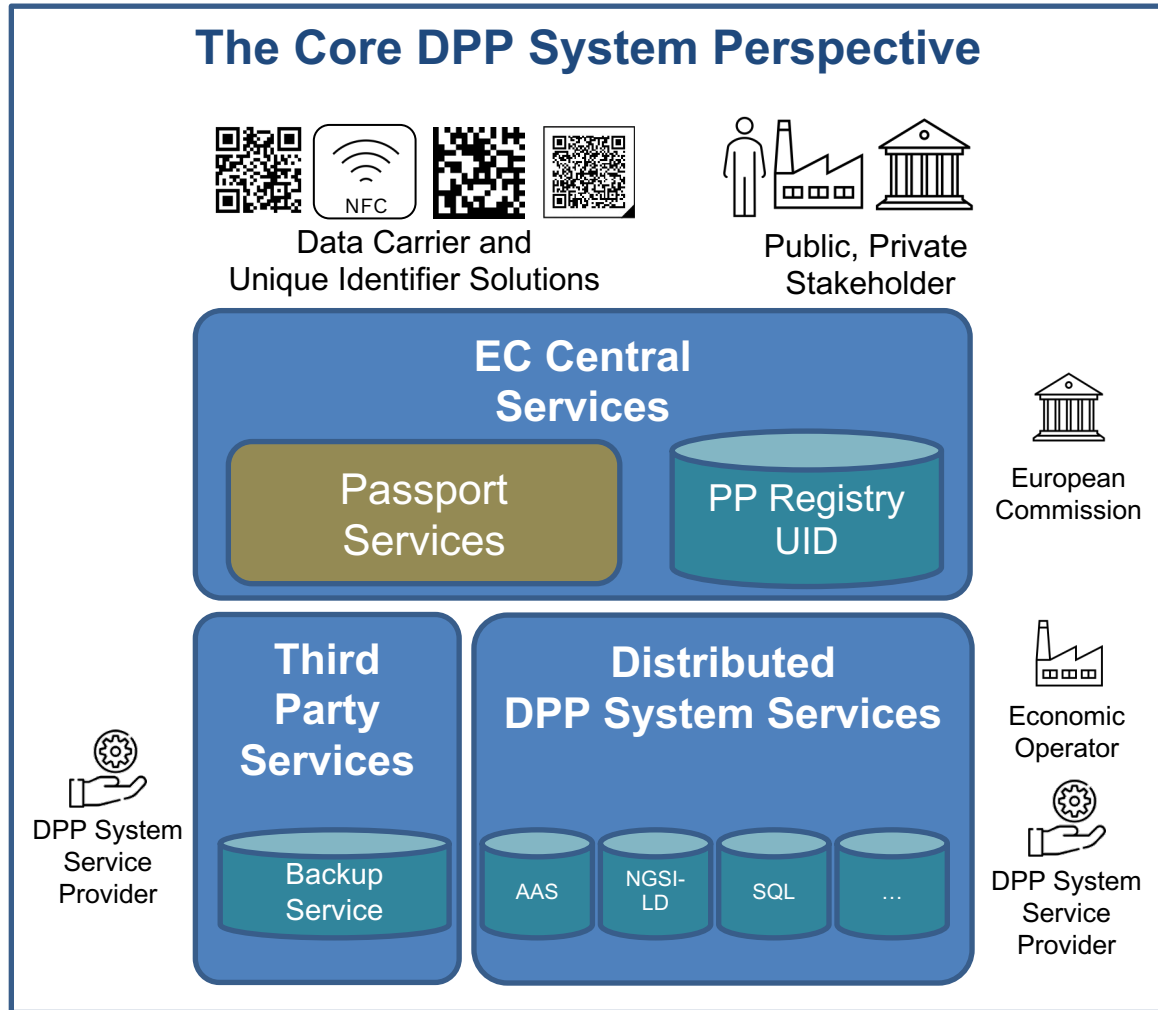


Scope in JTC 24:
Data Access,
Data Processing

Out of Scope in JTC 24:
Data Collection and
aggregation

1) Galatola, M. Digital Product Passport (DPP). Circular Economy Europe. [Online] [Cited: 20 03 2023.] <https://circulareconomy.europa.eu/platform/sites/default/files/michele-galatola-european-commission.pdf>

Organisation Scope : 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)

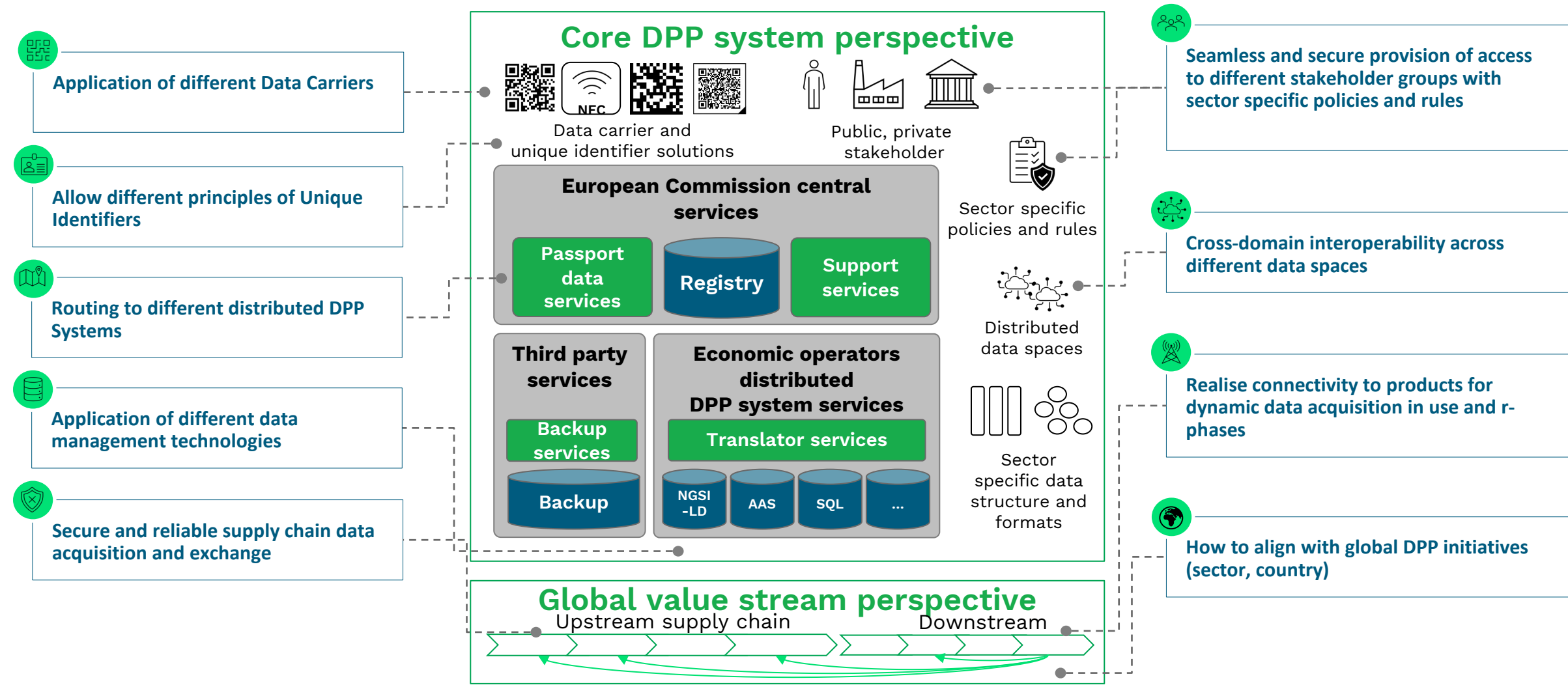
DPP System Component Suppliers
(e.g. for Data Carrier)

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

Major Interoperability Goal – Co-existence of standards/technologies



Status Workgroups

WG 1 Strategic Advisory Group

Convener: Martin Schreck (SN)

- Common Time Line elaborated
- System Picture (Architecture) elaborated
- Use Cases and User Stories elaborated
- Business Plan
- Monthly Update with EC

WG 2 Unique identifiers and data carriers

Convener: Johan Dahlgren (SIS)

- NWIP for Data Carrier and Unique Identifier established
- Drafts for Data Carrier and Unique Identifier elaborated

WG 3 Security

(Torgeir Waterhouse, SN)

- NWIP established
- Convenor appointed and approved

WG 4 Interoperability framework

Convener: Otto Handle (ASI)

Co-Convener: Richard Merkel (DIN)

- NWIP established for all related modules:
 - Data processing and exchange
 - Data storage
 - API
 - Data Modelling

Thank you very much



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