

「DET DIGITALE PRODUKTPAS」

Er din virksomhed klar?

Velkommen

v. Tina Helsted Vengsgaard, Direktør, Dansk Standard
&
Betina Schiønning, Fagchef for Produktregulering og
Håndhævelse, Dansk Erhverv

Program



- 14:10** The European Commission's perspective on status, process, and background of the Digital Product Passport and its interplay with the Ecodesign for Sustainable Products Regulation
- 14:30** Ecodesign-forordningen – Rammen for det digitale produktpas
- 14:55** Det digitale produktpas – Hvad og hvordan?
- 15:20** Netværk og pause
- 15:50** CIRPASS-2 – Digital Product Passports Enabling At-Scale and Real-Life Circular Economy Use Cases in Electronics, Textiles, Tires and Construction Value Chains
- 16:10** Panel med fokus på virksomheds- og forbrugerperspektivet – v. Flying Tiger, Spejder Sport, Forbrugerrådet TÆNK & MiCollect
- 16:50** Opsamling og afrunding



The European Commission's perspective on status, process, and background of the Digital Product Passport and its interplay with the Ecodesign for Sustainable Products Regulation

v. Alexandru Ion, Digital Product Passport Team Leader, European Commission



Digital Product Passport

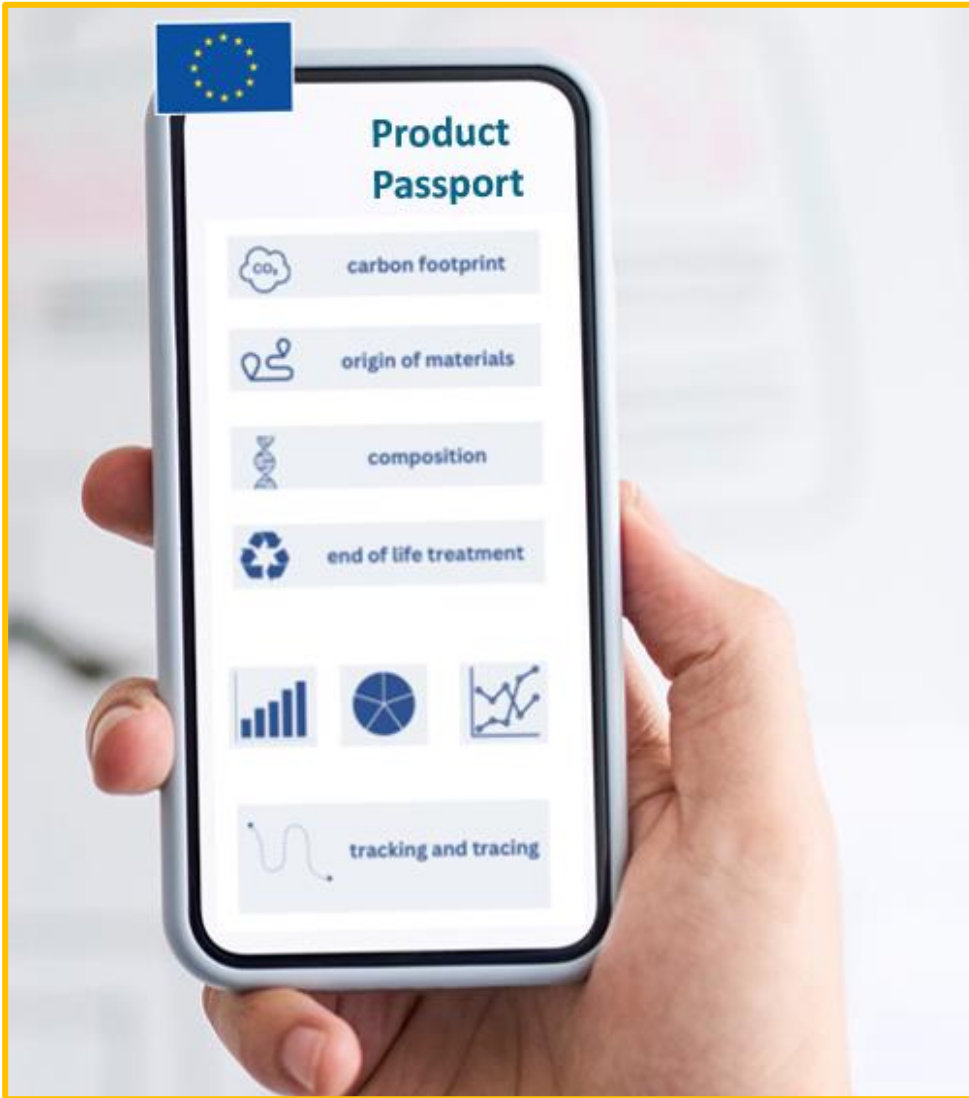
*Directorate-General for Internal Market,
Industry, Entrepreneurship and SMEs
Unit G.2 Single Market Implementation Tools*



The Digital Product Passport

Agenda

1. Digital Product Passport (DPP) - short introduction
2. The way forward: avoiding legal fragmentation between different legal acts





1

Introduction to the Digital Product Passport

Digital Product Passport



A **Digital Product Passport (DPP)** is a digital container of product specific information.

It serves as a digital identity for the product, enabling traceability and transparency throughout its value chain.

DPP can contain different types of information:



Instruction of use



Certificate of
conformity



Carbon footprint



Origin



Composition



Manufacturing
processes



Disposal options



Reuse options

Legal framework



- DPP's original legal basis can be found in the **Ecodesign for Sustainable Products Regulation (ESPR)**.
- It will be **complemented through product specific delegated acts** (*textiles, steel and aluminium, tyres, furniture, ICT, energy related products...*).
- **Other EU Regulations/Directives** may include DPP provisions.

DPP across sectoral legislation

Regulation	Status	DPP Implementation
Batteries and waste batteries	In force	Battery passport via QR code
Marketing of construction products	In force	Construction digital product passport system
Packaging and packaging waste	In force	Harmonised labelling system
Safety of toys	Proposal	Information on compliance, declaration of conformity, CE marking ...
Detergents and surfactants	Proposal	Technical requirements to be established via implementing acts

DPP secondary legislation



The DPP secondary legislation, which aims to complete the operational framework of the DPP, is planned for **adoption by mid-2026** and includes the following:

- 1 A **delegated act** setting out the requirements for DPP service providers, as well as a certification scheme to verify their compliance with such requirements where appropriate;
- 2 An **implementing act** setting out procedures to issue and verify the digital credentials of economic operators and other relevant actors;
- 3 An **implementing act** setting up requirements for the Central Registry;
- 4 A **delegated act** establishing rules & procedures on the life cycle management of unique identifiers & data carriers.



2

The way forward

Unlocking Single Market Potential

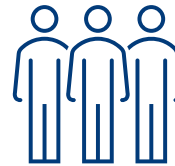


Digitalisation through the DPP is an opportunity to fundamentally transform single-market processes for:



Businesses

- Increased Supply Chain Transparency & Access to New Business Models
- Simplify Compliance



Consumers

- Enables Informed Purchasing
- Increased Trust in Product Information



Regulatory Authorities

- Improved Market Surveillance
- Streamlined Trade & Enforcement

The DPP will foster a more transparent, sustainable, & circular economy across the entire product lifecycle.

Avoiding legal fragmentation



The Challenge

- DPP provisions are to be integrated across a wide range of **sectoral legislation**.
- Aims are **multi-faceted**, serving varied objectives from consumer empowerment to circular economy and efficient market surveillance.

How are the challenges being addressed



The underlying DPP system will **operate uniformly**, regardless of the product sector



The Commission coordinates internally to ensure a good **alignment** between different Commission legislative proposals



Standardisation work is also being undertaken by CEN-CENELEC to **ensure interoperability** between different elements



The opportunity to integrate **horizontal provisions** through the New Legislative Framework is being analysed

Supporting businesses along the implementation

The Commission intends to develop:

- Technical guidance documentation for DPP registration and the use of the DPP registry;
- Open-source tools to help companies (incl. SMEs) to create DPPs and validate their DPPs structure.

Priority products set out in the ESPR Work Programme **

Final products included



Textiles/Apparel

2027*



Furniture

2028*



Tyres

2027*



Mattresses

2029*

Intermediate products included



Iron & Steel

2026*



Aluminium

2027*



Energy-related
products

2026 - 2030*



ICT products

2027-2029*

Products included under the transition rules

* indicative timeline for adoption

** Document 52025DC0187, COM/2025/187 final



European
Commission

Milestones



The **public consultation** for the **delegated act setting out the requirements for DPP Service Providers** closed on 1 July.



The **EU Harmonised Standards** undertaken by CEN-CENELEC is due to be completed by **early 2026**.



Launch of the **DPP registry** in **July 2026**.



Certain types of big batteries are the first product category for which the DPP becomes mandatory in **February 2027**.



The DPP is being introduced for a **wide range of other products, specified in ESPR Work Programme**, from **the end of 2027 onwards**.



Thank you!

Contact: GROW-DIGITAL-PRODUCT-PASSPORT@ec.europa.eu

Ecodesign-forordningen – Rammen for det digitale produktpas

v. Frederik Yde Jespersen, Technical Officer, Miljøstyrelsen



**Miljø- og
Ligestillingsministeriet**
Miljøstyrelsen

Ecodesign

Frederik Yde Jespersen
6. november 2025
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Reguleringslandskabet

The European Green Deal

Circular Economy Action Plan

Sustainable Products Initiative



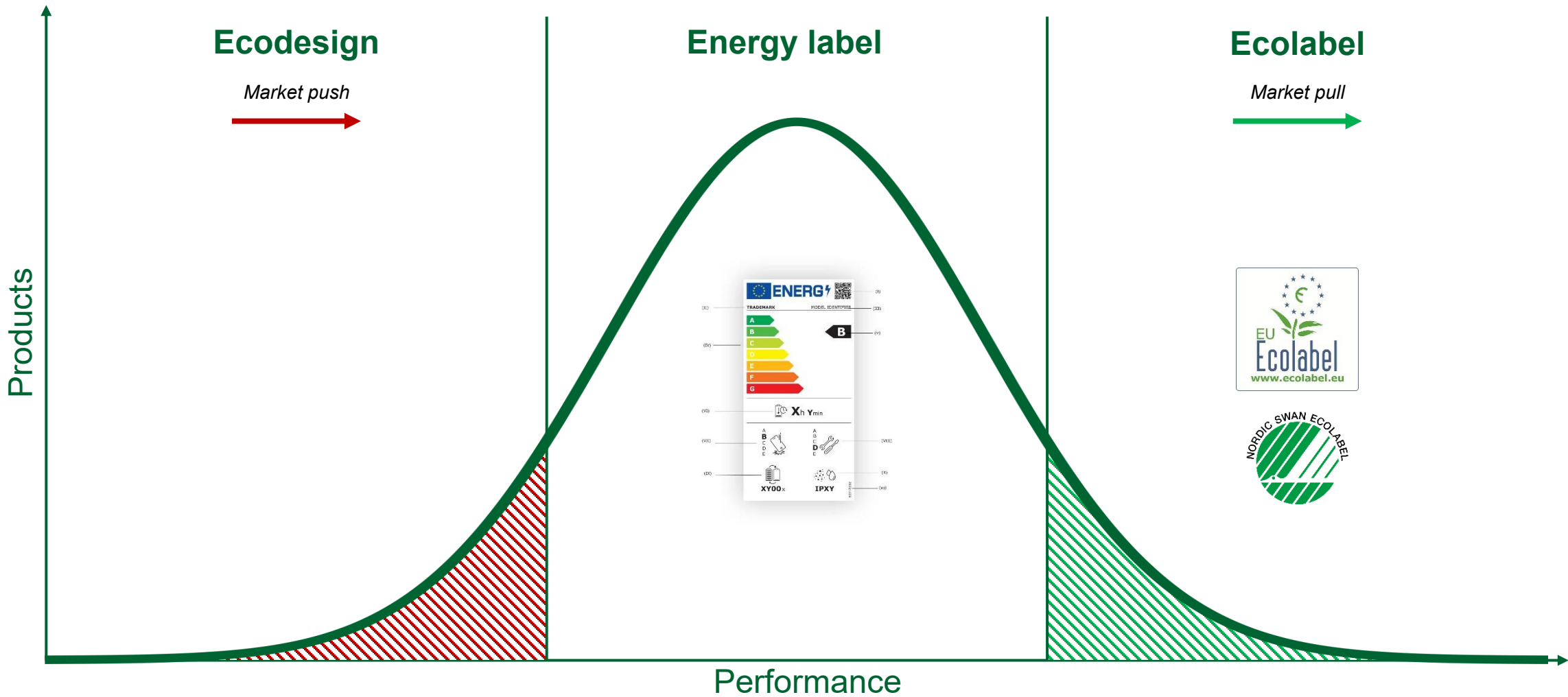
Green Deal Industrial Plan



Andre Planer og Initiativer

- EU Taxonomy
- Carbon Border Adjustment Mechanism (CBAM)
- Corporate sustainability due diligence directive (CSDDD)
- ...

EU Produktpolitikken

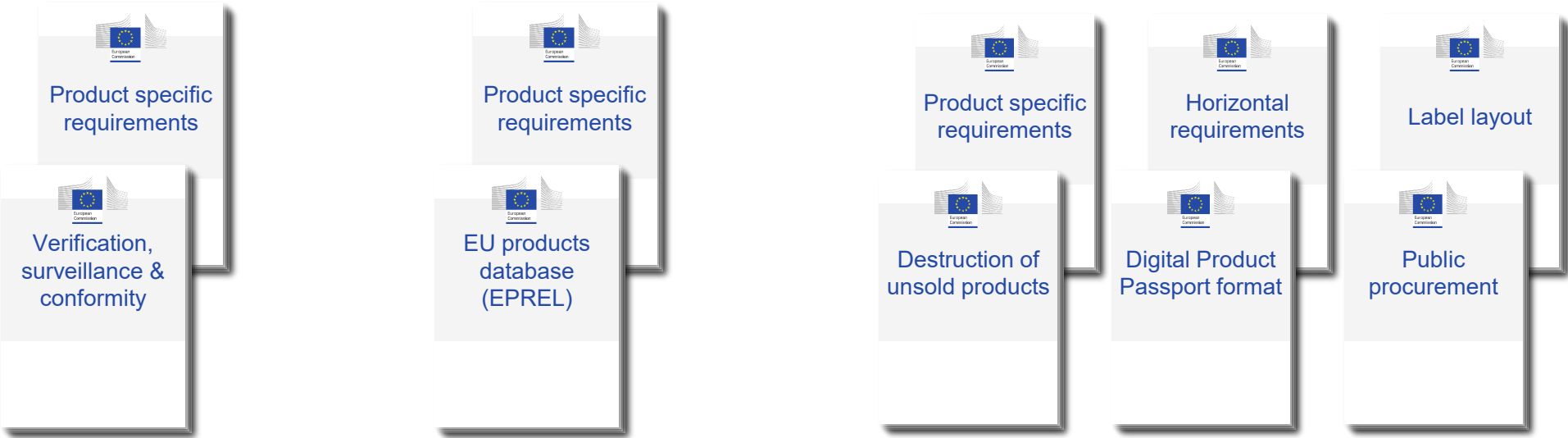


Fra direktiv til forordning



Primær

Sekundær



Ecodesignforordningen

FORORDNINGEN KORT FORTALT



Juridisk ramme for at vedtage bindende minimumskrav til produkter.



Ydeevnekrav som kan være kvantitative og kvalitative.



Informationskrav der kan indgå i et digitalt produktpas.



Offentlige indkøb kan reguleres for hver produktgruppe.



Destruktion af usolgte forbrugerprodukter oplyses og forbydes for en række produkter.

PRODUKTPARAMETRE

Holdbarhed

Pålidelighed

Genbrugelighed

Opgraderingsmuligheder

Reparerbarhed

Mulighed for vedligeholdelse og renovering

Tilstedeværelsen af problematiske stoffer

Energiforbrug og energieffektivitet

Vandforbrug og vandeffektivitet

Ressourceforbrug og ressourceeffektivitet

Genanvendt indhold

Muligheden for genfremstilling

Genanvendeligheden

Muligheden for nyttiggørelse af materialer

Miljøpåvirkninger, herunder CO₂-aftryk og miljøaftryk

Forventet generering af affald

Arbejdsplanen for Ecodesignforordningen

Forventet vedtagelse	2026	2027	2028	2029	2030
Ikke-energirelaterede produkter	Tekstiler og beklædning		Møbler	Madrasser	
		Dæk			
Mellemprodukter	Jern og stål	Aluminium			
Horisontale krav	Reparationsevne		Genanvendelighed		
Energirelaterede produkter	Radiatorer	Skærme	Opladere til elbiler	Lyskilder og lysstyring	Svejseudstyr
	Opvaskemaskiner		Elektriske motorer og hastighedsregulatorer		Mobiltelefoner og tablets
	Vaskemaskiner og vaskemaskine-tørretumblere		Køleskabe og fryser		Tørretumblere
	Kommercielle vaskemaskiner		Kommercielle køleskabe og fryser		Energiforbrug i standby/slukket tilstand
	Kommercielle opvaskemaskiner				
	Rumvarmere				Rumvarmere



Arbejdsplanen for Ecodesigndirektivet (-2026)

Solpaneler

Rum- og kombinationsvarmere

Vandvarmere

Træ/kul rumvarmere

Klimaanlæg, varmepumper og ventilatorer

Træ/kul kedler

Luftvarme- og køleprodukter

Ventilationsenheder

Støvsugere

Madlavningsapparater

Vandpumper

Industrielle ventilatorer

Varmesystem pumper

Eksterne strømforsyninger

Computere

Servere og lagerenheder

Strømtransformatorer

Kommerciel køling

Printere, kopimaskiner og scannere

Energimærkningsforordningen for smartphones og tablets

Trådte i kraft 20. juni 2025

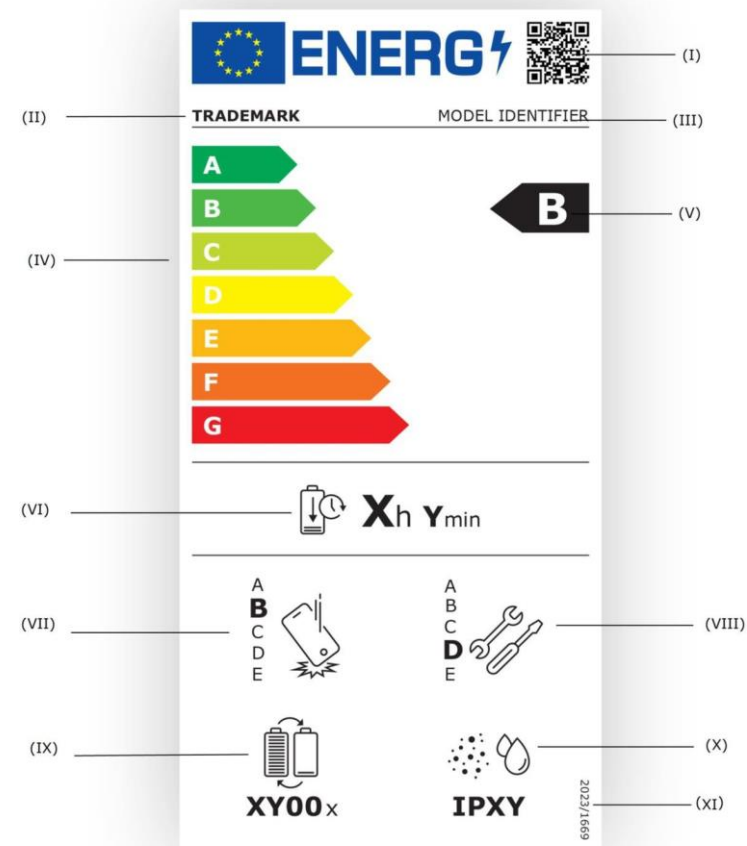
Modstandsdygtig over for fald, ridser, støv og vand

800 opladningscykluser med batterier med 80% kapacitet

Reservedele tilgængelige inden for 5-10 hverdage og i 7 år efter salgsophør

Ikke-diskriminerende **adgang** for professionelle reparatører til **erstatningssoftware**

Introduceret **reparerbarhedsindeks**





**Miljø- og
Ligestillingsministeriet**
Miljøstyrelsen

Spørgsmål?

Klik på kasser og titler for links

Frederik Yde Jespersen
6 November, 2025
+45 20 34 08 99

Klik på kasser og titler i præsentation for links

[Miljøstyrelsen om Ecodesign](#)

[EU Product Bureau](#)

Det digitale produktpas – Hvad og hvordan?

v. Rasmus Rohde, Fuldmægtig, Erhvervsstyrelsen

「DET DIGITALE
PRODUKTPAS」

DIGITAL PRODUKTPAS

Temadag v. Dansk Standard

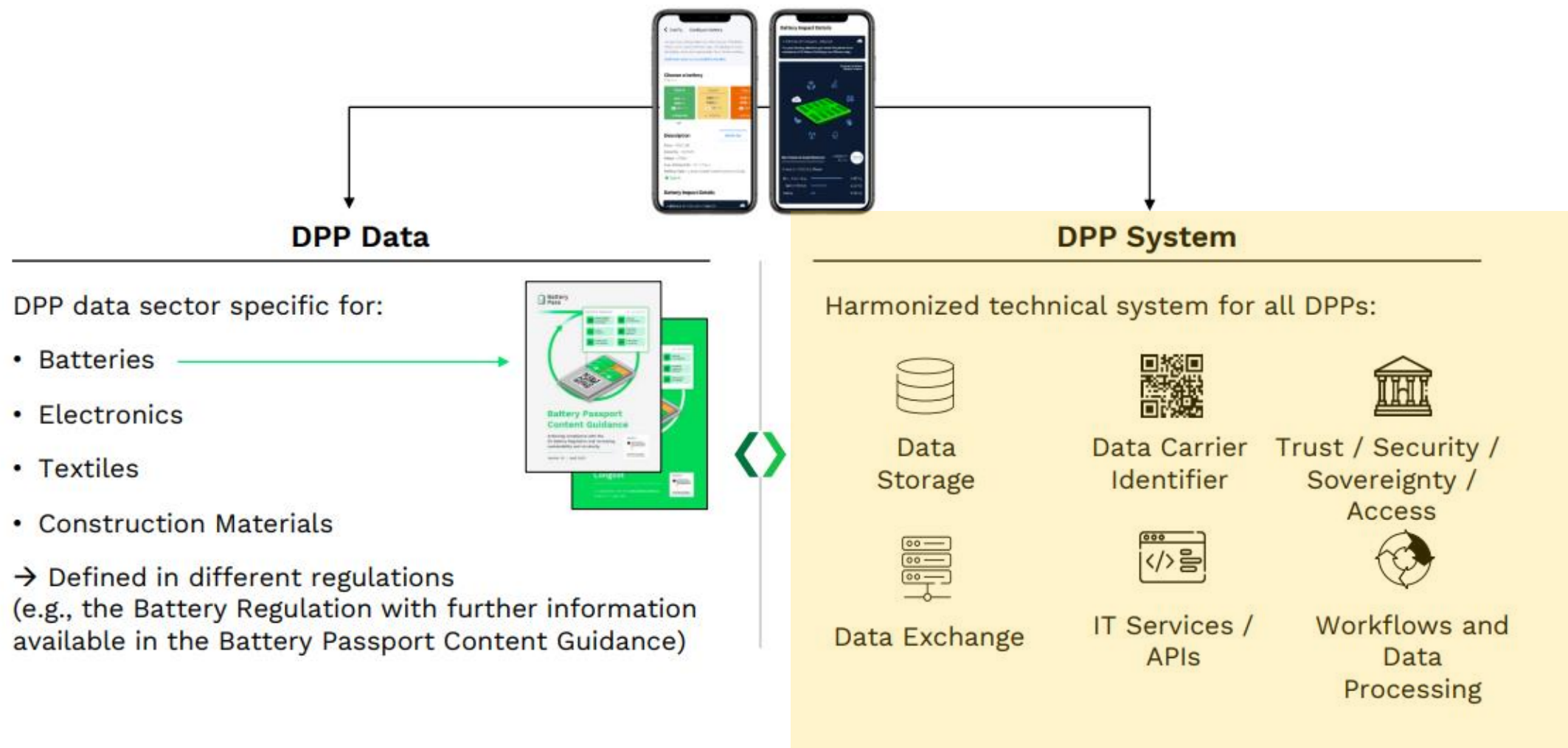
6. November 2025

GroenData@erst.dk

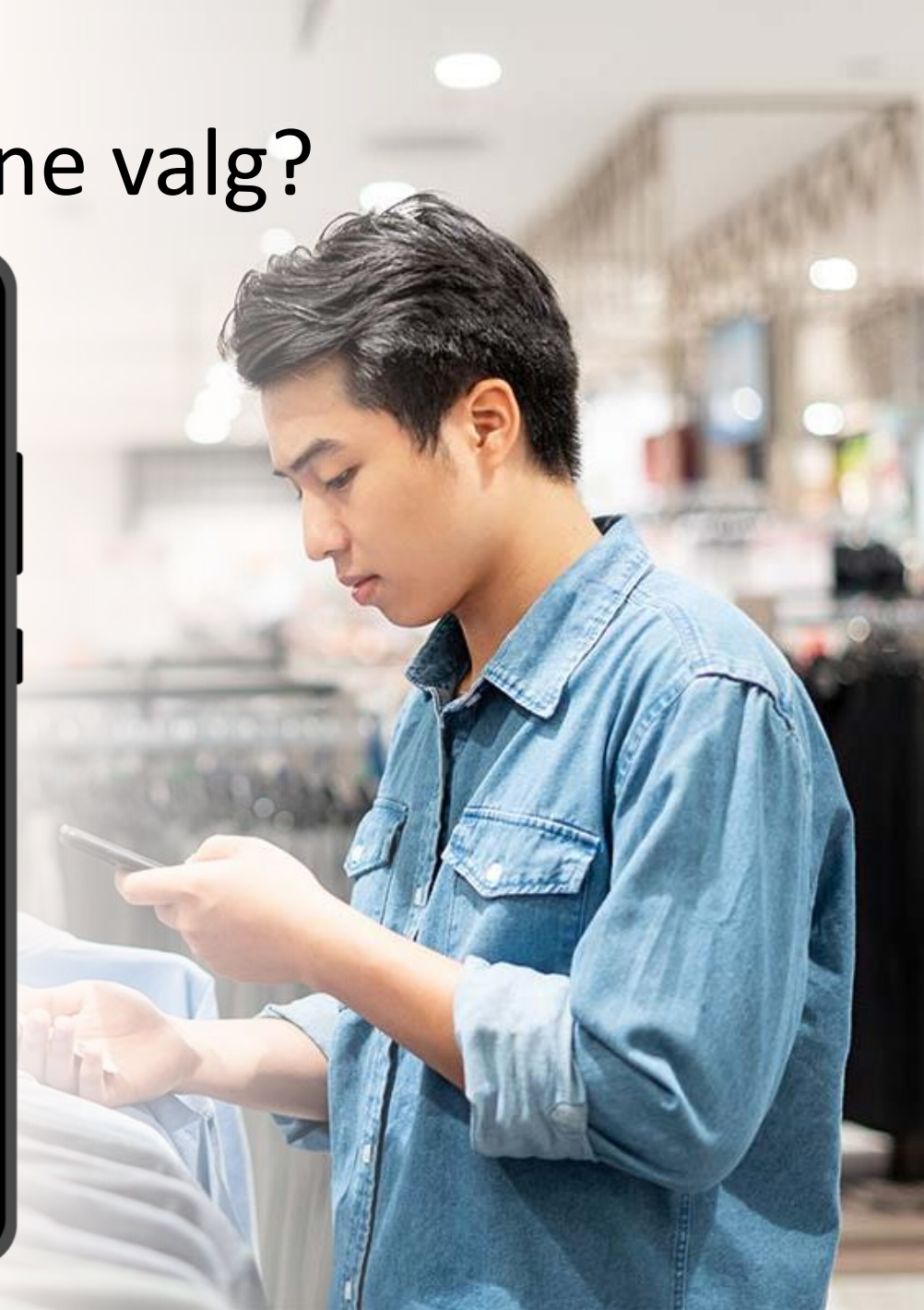


Medfinansieret af
Den Europæiske Union

A DPP consist on data and system



Hvordan skal man tage det grønne valg?



EPREL — Det europæiske produktregister for energimærkning

Registreringsidentifikator ▼

Eksempel: 1234567

Søg

Hvad er EPREL?

Opvaskemaskiner

Vaskemaskiner

Vaske/tørremaskiner

Køleskabe til husholdnings brug, hoteller og vin

Køleudstyr til kommerciel brug

Dæk

Smartphones og tablets

Elektroniske skærme

Klimaanlæg

Emhætter

Produkter til lokal rumopvarmning

Professionelle lagerkøleskabe/lagerfryseskabe

Anlæg til rumopvarmning/ anlæg til kombineret rum- og brugsvandsopvarm

Pakker med anlæg til rumopvarmning/ anlæg til kombineret rum- og brugsvandsopvarm

Temperaturstyring til anlæg til rumopvarmning

Smartphones og tablets

(EU) 2023/1669 for så vidt angår energimærkning af smartphones og tablets

ENERGY

A3517

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IP68

Bedre forståelse af mærket

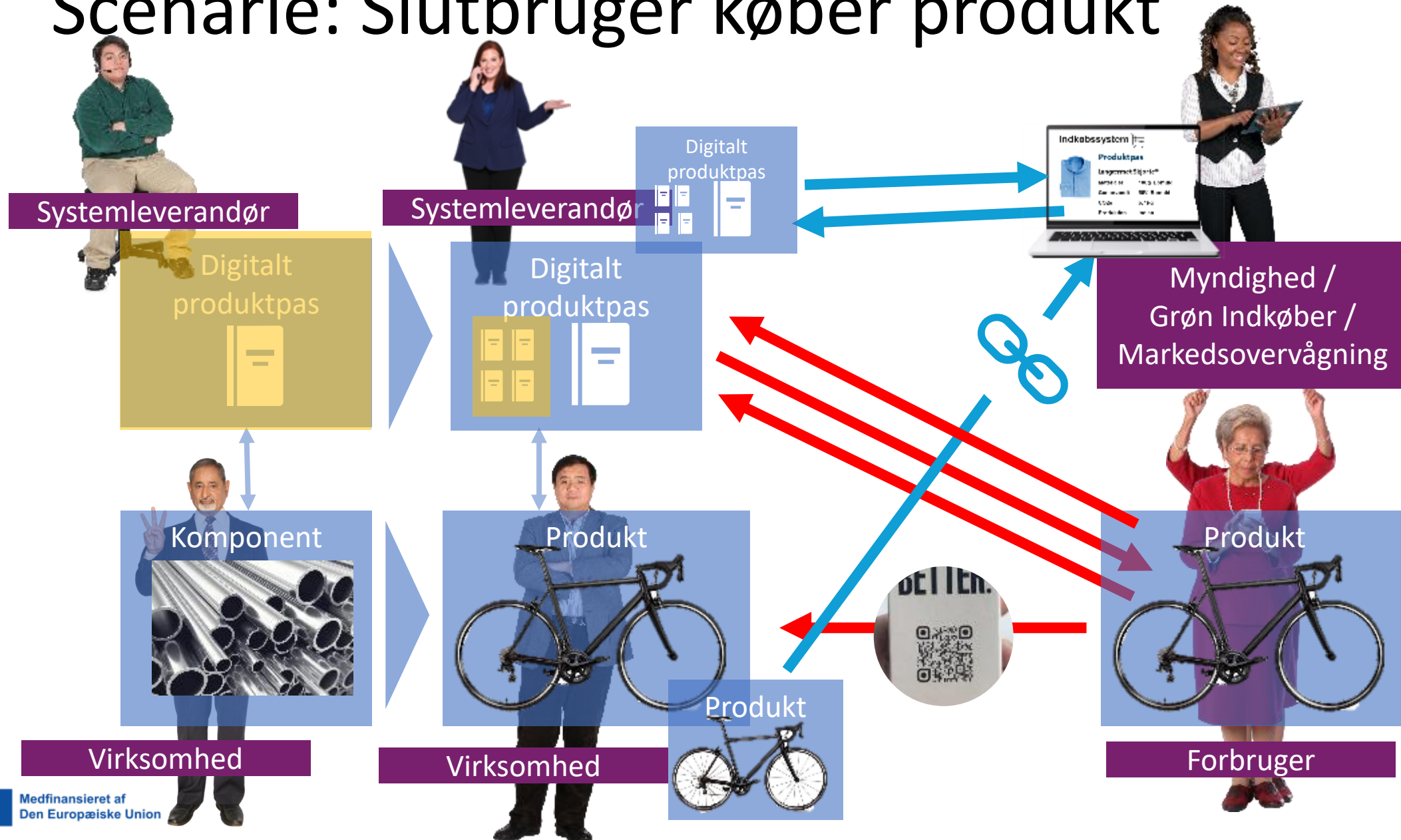
Download mærket til udskrivning.

Formater: PDF-fil

Model	A3517
Udgiver	Apple
Smartphone	Nej
IOS	Nej
Android	Nej
Udsendes af brugeren	Nej
Holdbarhed pr. cyklus	4 000
Holdbarhed i cyklusser — indstillinger	1 000
Batterikapacitet	3 149 mAh
Har beskyttelsescover	Nej
Holdbarhed ved gentagne frie fald — fald uden	180
Holdbarhed ved gentagne frie fald	B (A-E)
IP-sertifisering (kapslingsgrad)	IP68
Nedsænkningedybde i vand	6 m
Hårdhed på Mohs hårdhedsskala	5
Oplader	5 W
Krævet udgangseffekt	

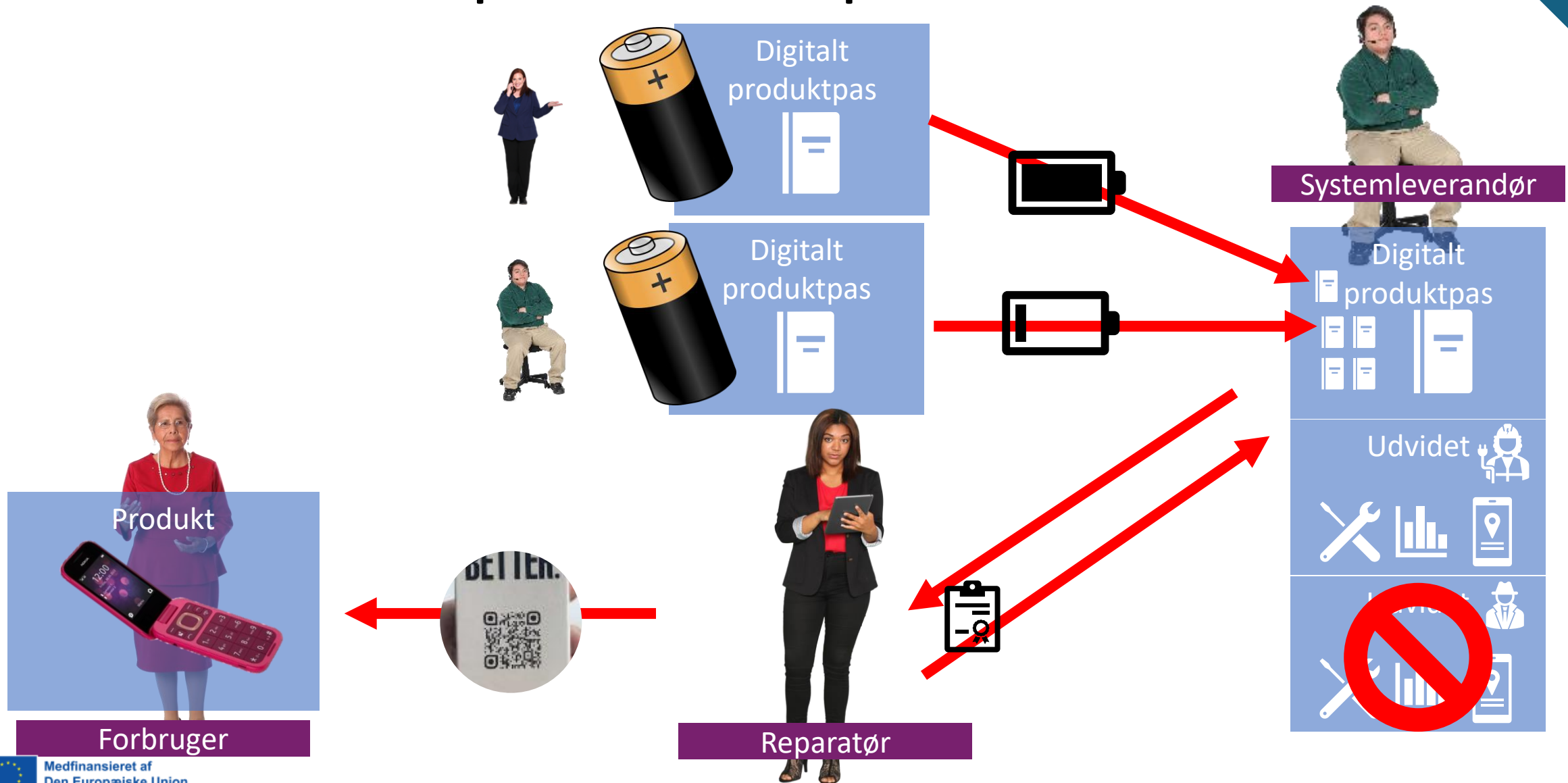
Scenarie: Slutbruger køber produkt

Systemet for det
Digitale Produktpas

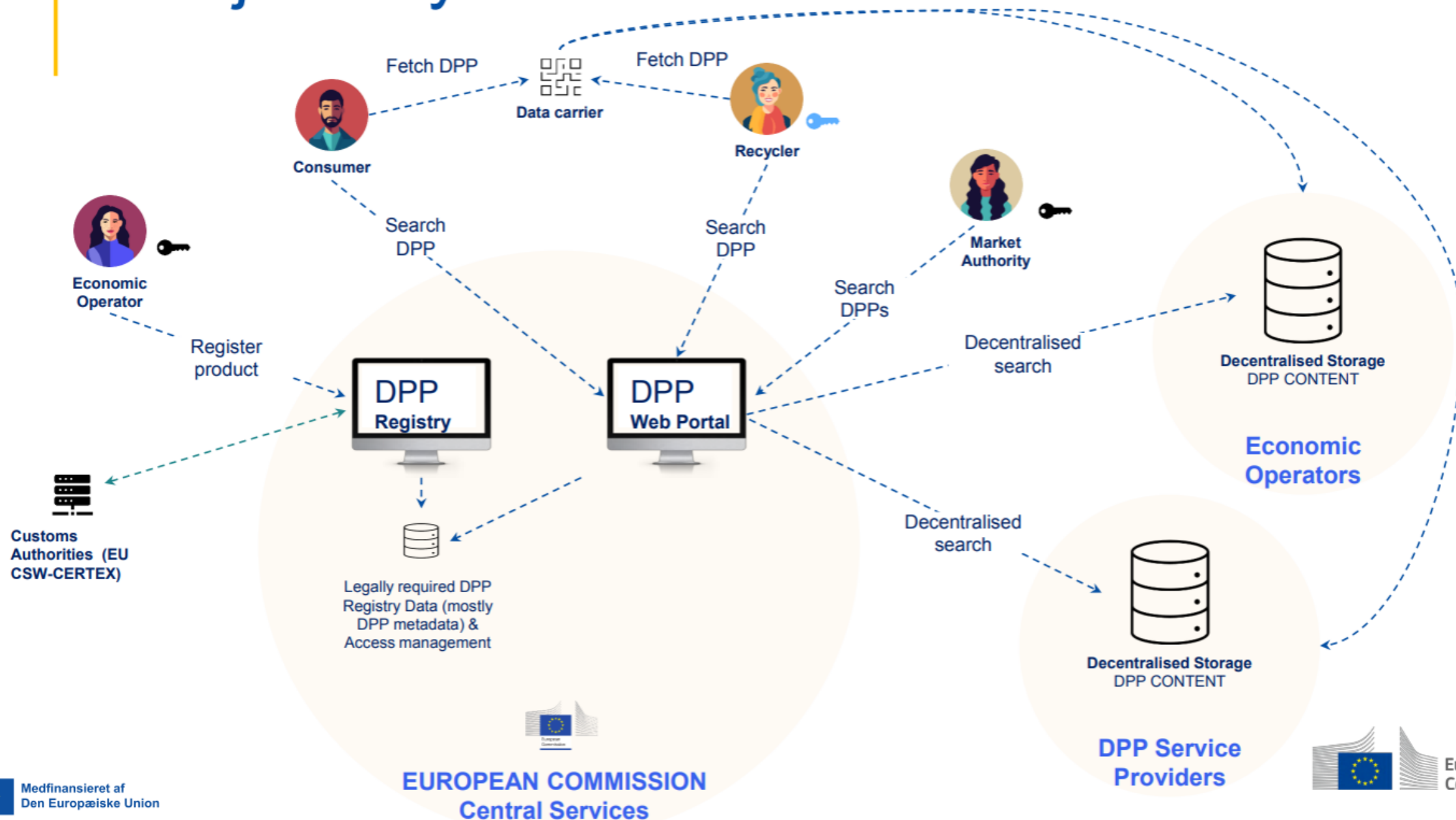


Scenarie: Reparation af produkt

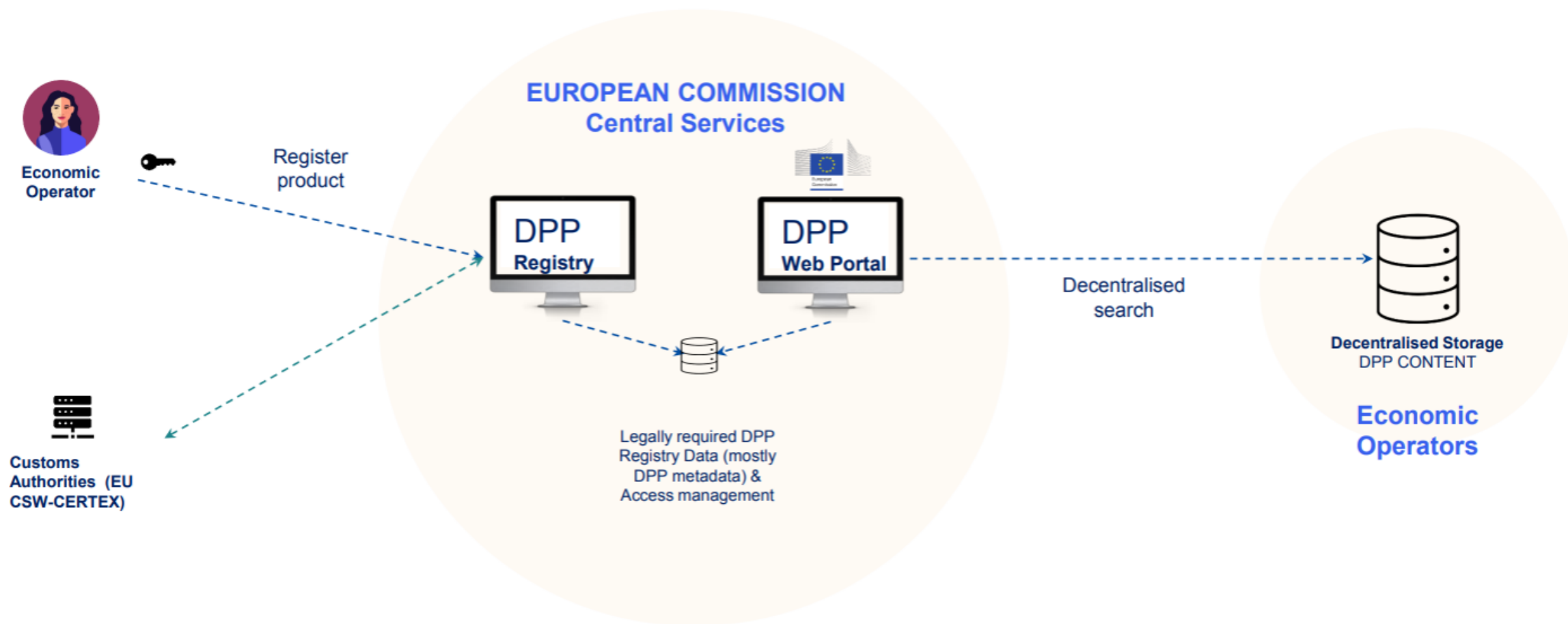
Systemet for det
Digitale Produktpas



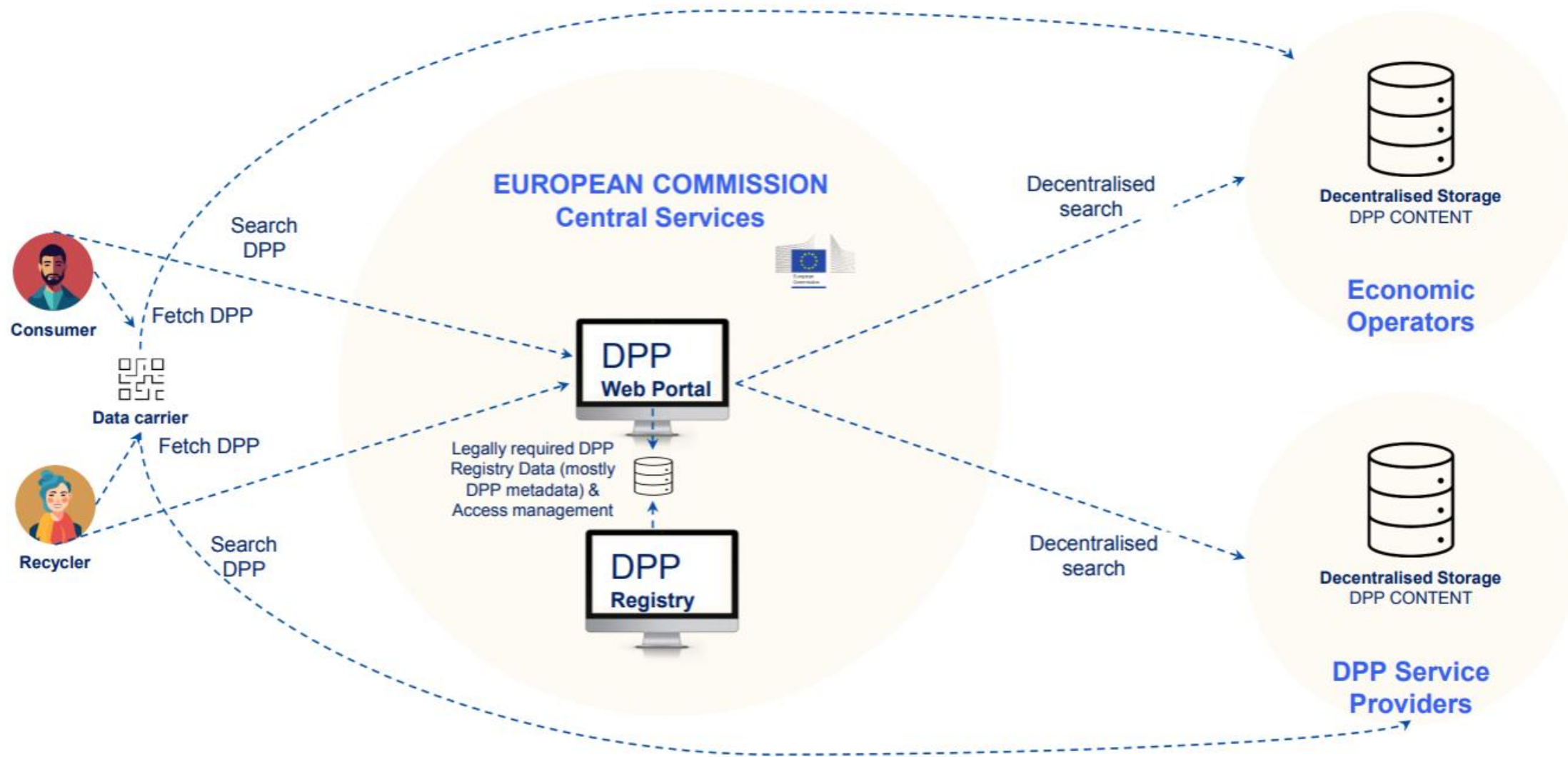
User journey - overview



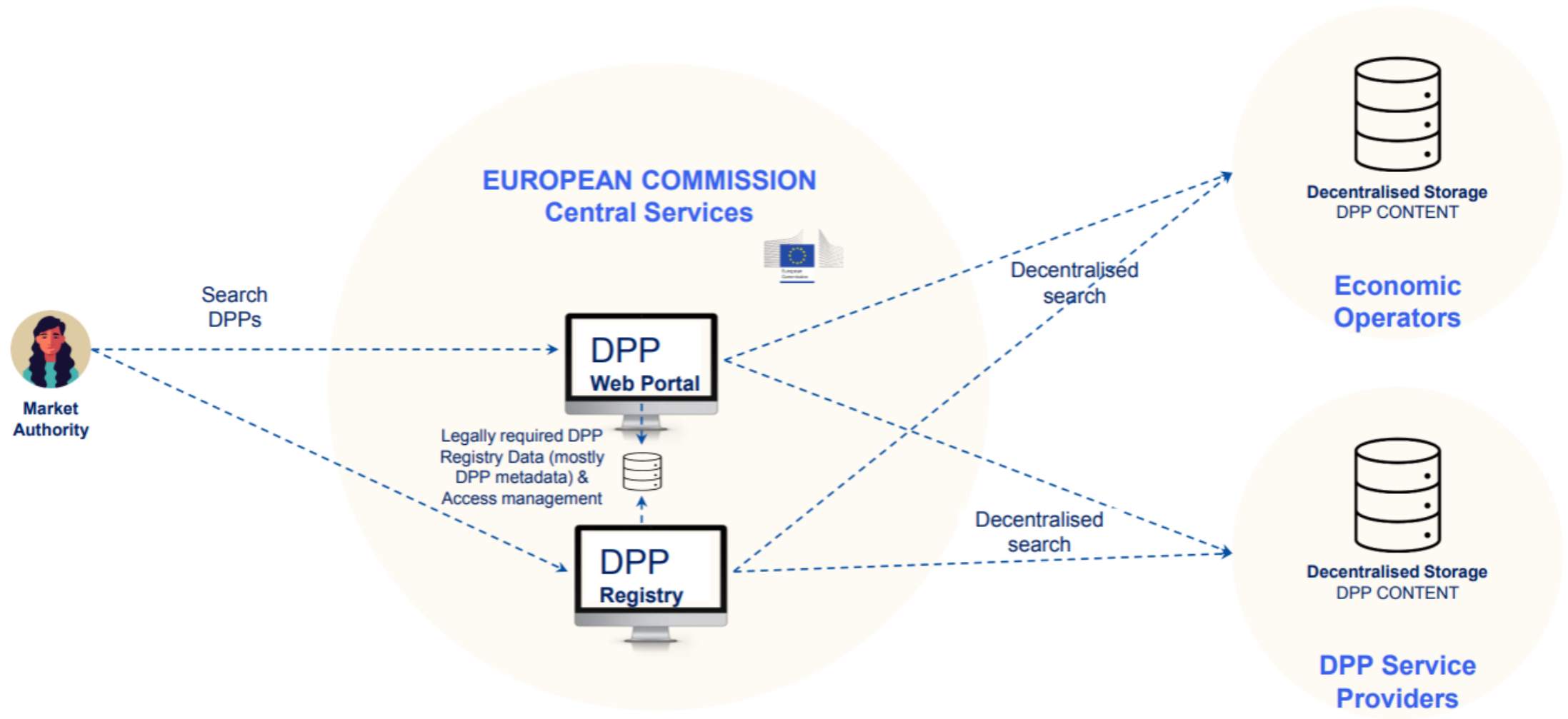
User journey – Economic Operator



User journey – Consumer & Recycler



User journey – Market Authority



PAUSE

Vi starter igen 15:50

CIRPASS-2

– Digital Product Passports Enabling At-Scale and Real-Life Circular Economy Use Cases in Electronics, Textiles, Tires and Construction Value Chains

v. Dr. Stefan Schork, Manager Automation, The German Electro and Digital
Industry Association (ZVEI)

CIRPASS-2

Digital Product Passports Enabling At-Scale and Real-Life Circular Economy Use Cases in electronics, textiles, tires and construction value chains

Schork, Stefan (ZVEI e.V.)

November 6th, 2025 – Danish Chamber of Commerce and Danish Standards – The Digital Product Passport

-
- The information provided in this presentation is for information purposes only.
 - The CIRPASS-2 consortium partners are not responsible for any damage that could result from making use of this information.
 - The information provided should not be interpreted as representing the views of CEN/CENELEC JTC 24 nor of the European Commission.

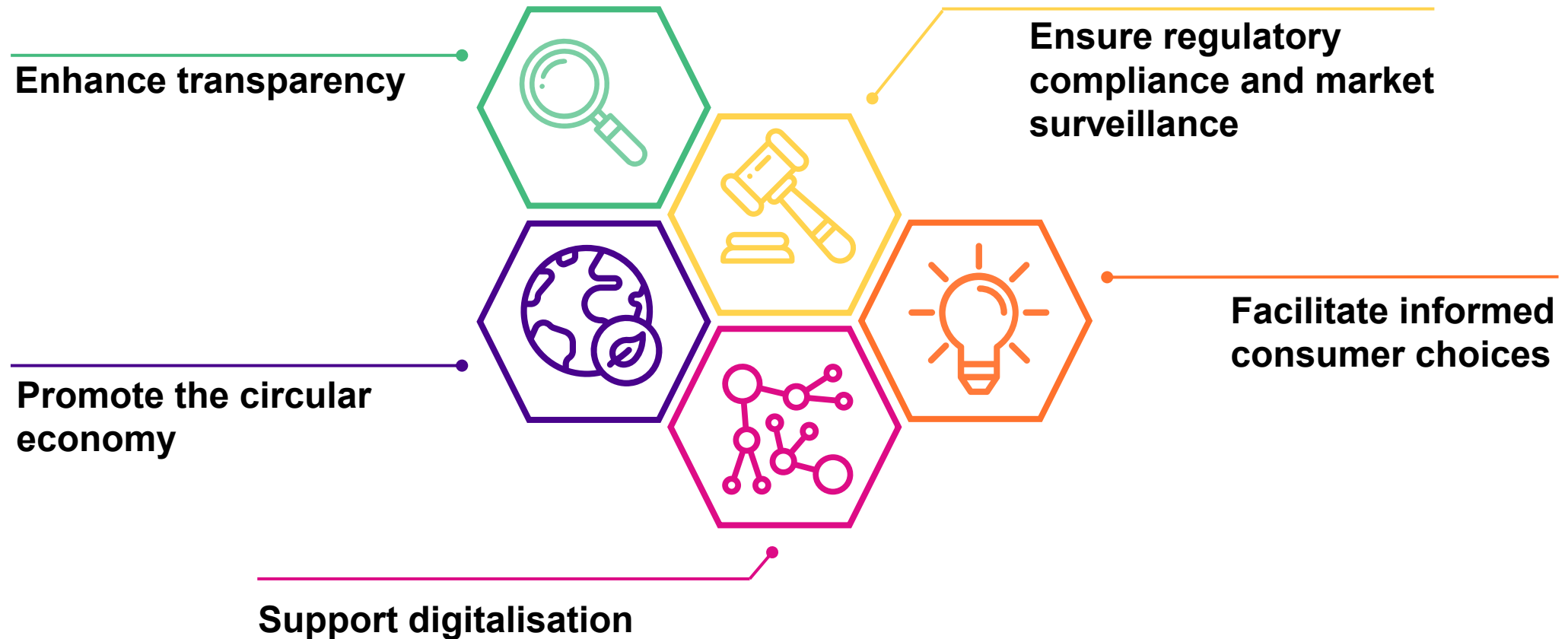
Digital Product Passport in a Nutshell

A **Digital Product Passport (DPP)** is a structured collection of product-related, **machine-readable** data with pre-defined scope and agreed data management and access rights conveyed through a **unique product identifier** and that is accessible via electronic means through a **data carrier**.

The DPP is an **information system** for the **data-enabled Circular Economy**.



Overview of the key benefits of DPP



Key product aspects under ESPR

Article 5 – Ecodesign requirements



What are CIRPASS and CIRPASS-2 ?



- Funded by the European Commission under the **Digital Europe Programme**
- **Duration:** 18 months (from Oct 2022 to March 2024)
- **Coordination and Support Action**
- **2M euros funding**
- **31 partners**



Build consensus on a standards-based DPP system

- Funded by the European Commission under the **Digital Europe Programme**
- **Duration:** May 2024 – April 2027
- **Innovation Deployment Action**
- **6M euros funding**
- **50 partners**



Deploy at scale Digital Product Passports in four target value chains and demonstrate data-enabled B2B activities that promote circularity

CIRPASS-2 consortium partners



- **White:** CIRPASS partner
- **Yellow:** new partner

<https://cirpass2.eu/who-we-are/>

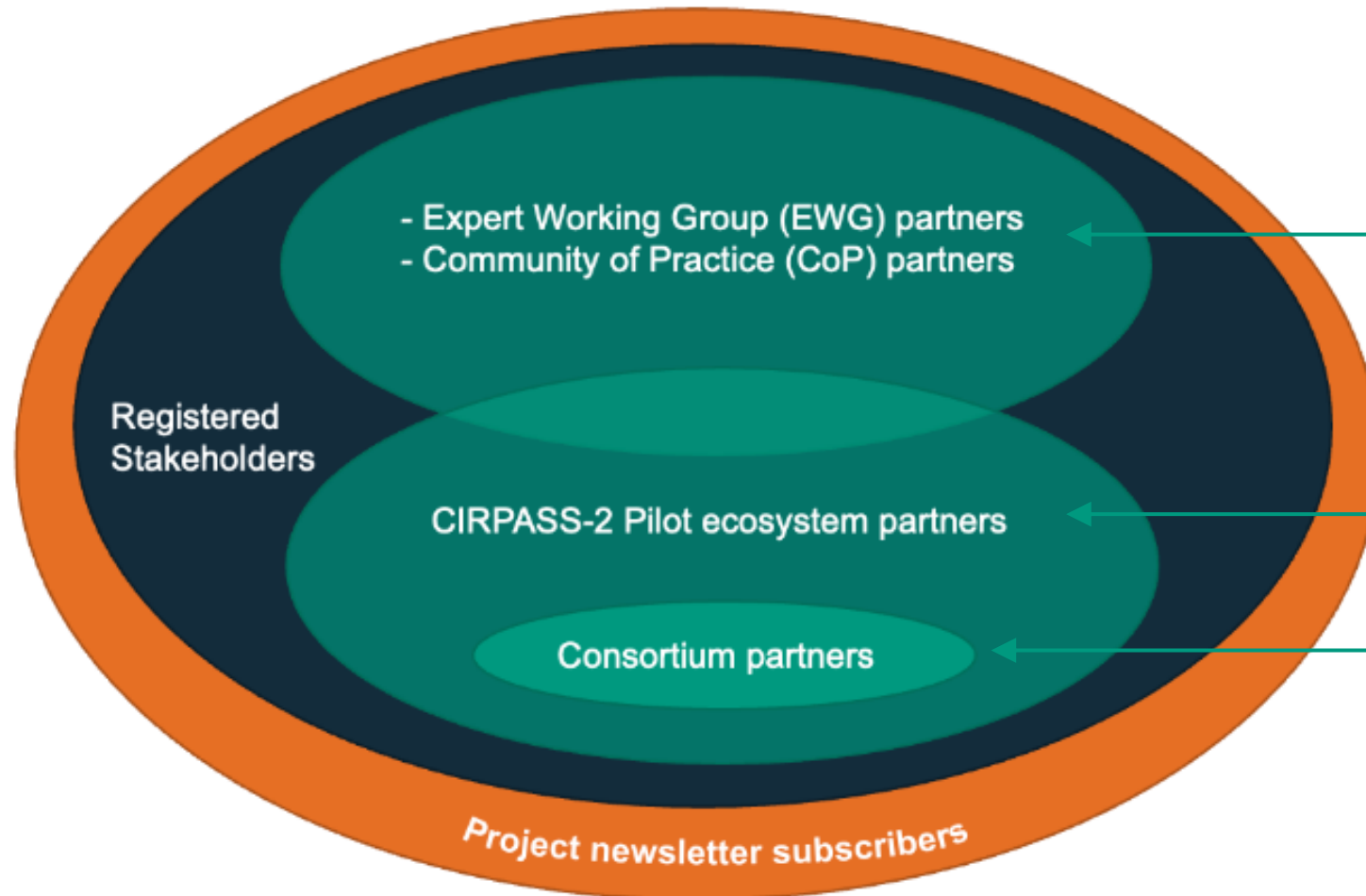
- **This list does not include :**
 - Pilot ecosystem partners
 - Expert working group (EWG) partners

1	CEA	France
2	TALLINNA TEHNIKAÜLIKOO	Estonia
3	Mindworks Industries OU	Estonia
4	DIGITALEUROPE AISBL*	Belgium
5	E CIRCULAR APS	Denmark
6	F6S NETWORK IRELAND LIMITED	Ireland
7	DIN	Germany
8	VDE VERBAND DER ELEKTROTECHNIK ELEKTRONIK INFORMATIONSTECHNIK EV	Germany
9	Global Textile Scheme	Germany
10	maki Consulting GmbH	Germany
11	Ekodenge Ltd	Turkey
12	STIFTELSEN CHALMERS INDUSTRIETEKNIK	Sweden
13	Netherlands association of applied scientific research	Netherlands
14	BioInnovationService	France
15	TECHNISCHE UNIVERSITEIT DELFT NL	Netherlands
16	Energy Web AG	Switzerland
17	ASOCIACION DE EMPRESAS TECNOLOGICAS INNOVALIA	Spain
18	CBT COMUNICACION Y MULTIMEDIA SL	Spain
19	ASOCIACION PARA DESARROLLO DE LA ECONOMIA DEL DATO	Spain
20	GS1 IN EUROPE	Belgium
21	AOC Innovation	France
22	+IMPAKT LUXEMBOURG SARL	Luxembourg
23	Platform Industry 4.0 Austria	Austria
24	Fujitsu	Belgium
25	Fraunhofer IZM	Germany
26	Extra Red	Italy
27	Euratex	Belgium
28	Worldline	France
29	Physikalisch-Technische Bundesanstalt	Germany
30	Ioxio Oy	Finland
31	Suomen Tekstiili ja Muoti ry (Finnish Textile and Fashion)	Finland
32	Kezzler	Norway
33	EON	Hungary
34	Avery Dennison Atma GmbH	Austria
35	CIRCULAR.FASHION UG (HAFTUNGSBESCHRANKT)	Germany
36	TripleR	Belgium
37	Scantrust	Netherlands
38	Arcelik A.S	Turkey
39	Digital Data Chain Consortium GbR	Germany
40	ZVEI	Germany
41	Whatt.io	Sweden
42	ASCDI	USA
43	OBADA Foundation	USA
44	Gorenje gospodinjiski aparati, d.o.o	Slovenia
45	Hisense Gorenje Europe, d.o.o.	Slovenia
46	Michelin	France
47	Cobuilder AS	Norway
48	Global Electronics Council	USA
49	Textile Exchange	USA
50	IPOINT-SYSTEMS GMBH	Germany

CIRPASS-2 in numbers

CIRPASS-2 Stakeholder Community

>4500



- Expert Working Group (EWG) partners
- Community of Practice (CoP) partners

>600

CIRPASS-2 Pilot ecosystem partners

>100

Consortium partners

50

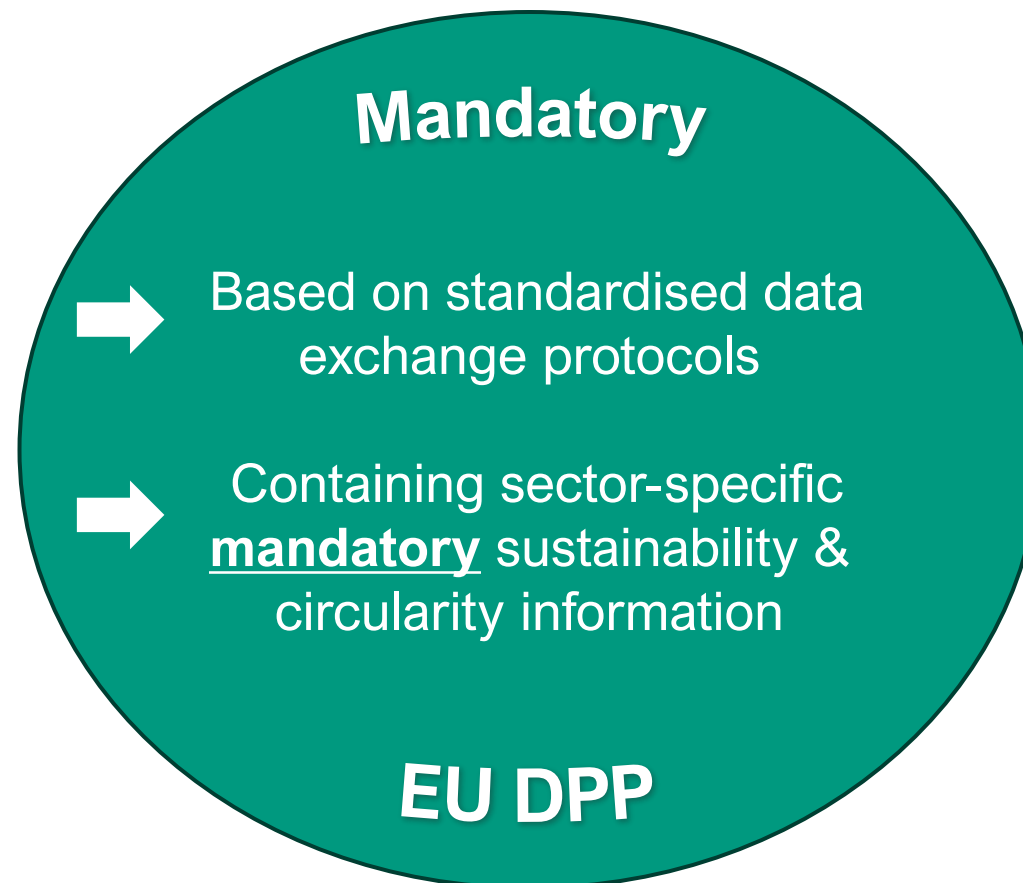
organisations

- How can **all industrial sectors** agree on a common DPP system that is:
 - compliant to the regulatory requirements,
 - capable of supporting the massive issuing of DPPs in 2027,
 - is extensible and flexible to support beyond-mandatory data exchanges to enable new circular business models?”



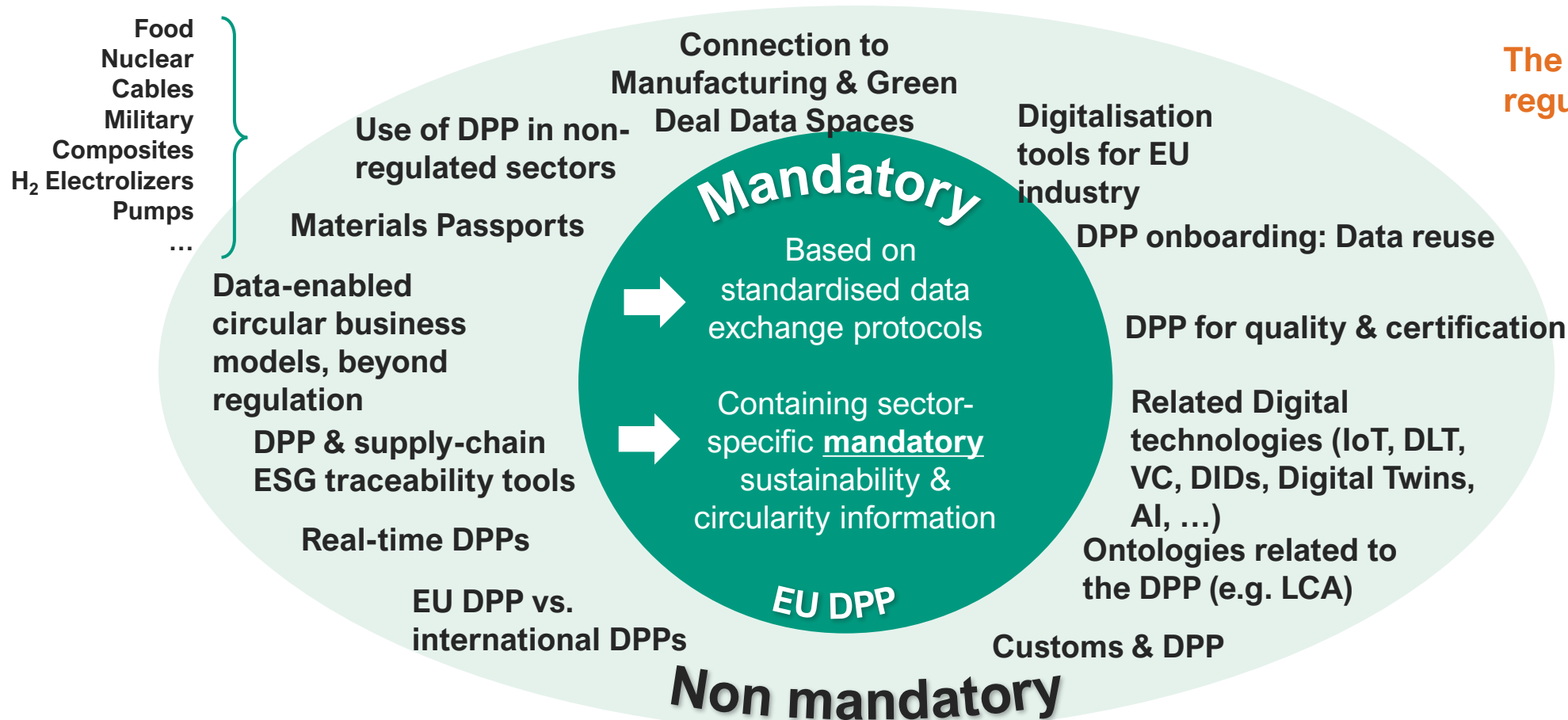
Why is the DPP System an incredible opportunity?

- **Vision:** The DPP links the EU internal market to the data economy.



Why is the DPP System an incredible opportunity?

- **Vision:** The DPP links the EU internal market to the data economy.



The DPP is not just a regulatory tool.

- At scale and real-life deployments of Digital Product Passports:
 - All pilots must demonstrate B2B activities that promote circularity and provide **quantitative proof** of DPP 'value' (both economic and environmental).

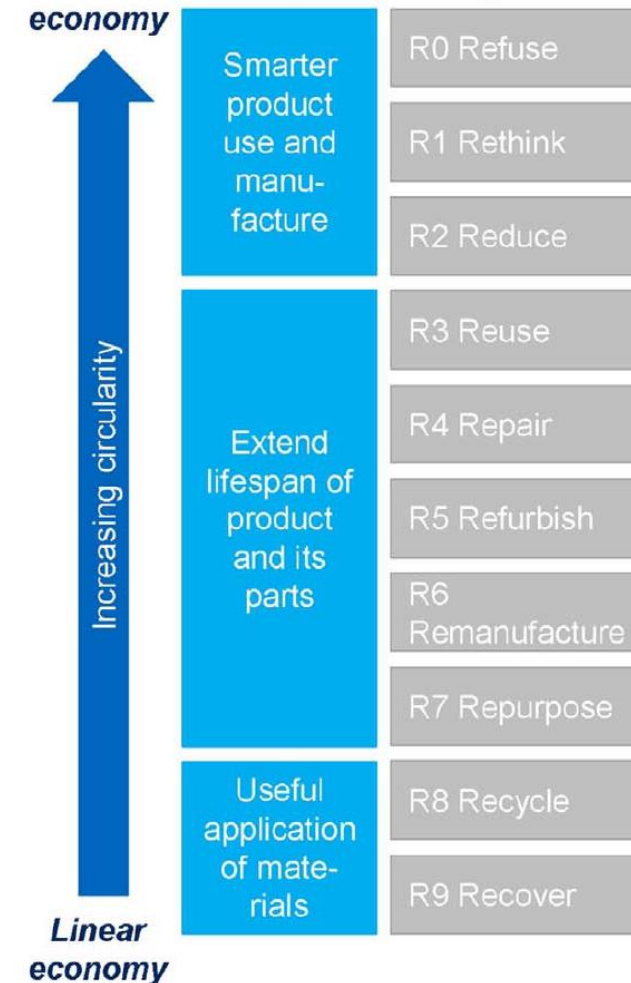
- Propose a DPP system architecture that is simultaneously aligned and interoperable with:
 - 1 - the requirements of the Ecodesign for Sustainable Product Regulations (ESPR)
 - 2 - the beyond-regulatory needs of industry, and
 - 3 – international DPP initiatives.

- Support CEN/CENELEC JTC-24

What is a “lighthouse pilot” ?

Each “pilot” comes with its own “**eco-system**” including:

- A pilot leader
- A number of **up-stream** partners who will create DPPs for their products
- A number of **downstream** B2B “R” partners, referring to 9R Framework for Circular Economy
- Circular economy business models and DPP **use cases** (necessarily including B2B data exchanges)



*9R Framework for Circular Economy.
Source: J. Kirchherr et al. (2017, page 5)*

CIRPASS-2 DPP Pilot Ecosystems



Circular workwear



Textiles lifecycle



Circular garments



Textile sorting



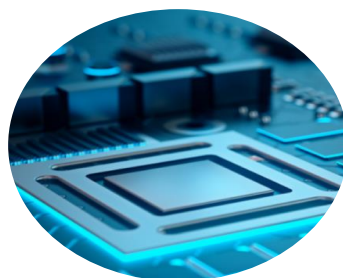
Mattresses



Down-feather bedding



Cordless vacuum cleaners



AAS-based for electronic products



Audio equipment



IT second-hand market



Tumble-dryers



Tyres



Construction sector

CIRPASS-2 DPP Pilot Ecosystems



Circular workw



n-feather bedding



Cord
o



e-dryers

- Pilot diversity is the key to ensuring that the DPP system proposal is both cross-sectoral and future-proof.
- Prove that the DPP can be **more** than just a regulatory burden for companies but it can effectively promote sustainability.
- Investigate the impact of the EU DPP in a **GLOBAL** context.



CIRPASS-2 Lighthouse Pilot Ecosystems (13)



Pilot	Pilot Leader(s)	DPPaaS?	Upstream Ecosystem Typology	Targeted Products	Targeted "R" Strategies	Downstream Ecosystem typology
PA1	IOXIO	yes	STJM (Finnish Textile and Fashion Industry association), VTT (Research Institute), SITRA (Finnish Innovation Fund), 1 entreprise brand, several SME brands	Textiles - Workwear (PaaS)	Reuse, Repair, Maintenance, Remanufacturing and, eventually Recycling	Coordinated by STJM: Reuse/repair: 1 SME, 1 entreprise, Reman : 1 SME, Waste Collection : 1 SME, Recycling : 1 SME
PA2	Kezzler	yes	Global top 10 brand, SME brand, Upstream traceability solution provider, ERP & CRM system provider, GS1	Textiles - Fashion	Reduce, Reuse, Repair	Retailer, Inventory management system provider, Refurbish : Supply-chain management operator, Repair : SME repair service, Reuse : Resale Service Platform Recycler : Sorting and recycling operator
PA3	EON	yes	Entreprise brand, SME fashion brand	Textiles - Fashion	Resell, Collection, Sorting and Recycling	Collecting, sorting, re-selling, and recycling : 1 SME
PA4	atma.io & circular.fashion	yes	2 entreprise brands/retail, B2G data model consultant	Textiles - Fashion & Sportswear	Resell, Repair, Sorting, Recycle, Circularity validation	Sorting technology provider : SME Sorting : 1 entreprise, 1 SME Repair, upcycle : 1 SME
PA5	TripleR	yes	6 mattress manufacturers, DPP platform provider	Textiles - Mattresses	Collectors, Remanufacturers/Refurbishers /Dismantlers and Recycling	Refurbish : 2 SME
PA6	Scantrust	yes	label pro 1			Recycling : 1 SME
PB1	Arcelik	no				Arçelik A.Ş
PB2	DDCC, ZVEI	yes	owner/operators)	equipment	Remanufacture, Repurpose	DDCC owner/operator partners and ZVEI member companies
PB3	Whatt.io	yes	2 brands, Importer	Electronics - Audio and Emergency Lighting Equipment	Repair, Maintenance, 3D parts manufacturing	Maintenance : commercial building staff Repair : 2 additive manufacturing labs
PB4	OBADA/TBS	yes	ASCDI (trade association and marketplace, trust anchor for its members)	Electronics - IT equipment	Repair, Recycle	2 B2B marketplace
PB5	EcoWise	yes	Gorenje (manufacturer)	Electronics - Tumble Dryers	Repair, Refurbishment, and Recycling	1 end of use collector
PC1	Michelin	no	Industry governance body, 2 ecoorganisms	Tyres	Remanufacturing, Recycling	2 retreaders, 2 collectors, 1 recycler, 1 sorting technology provider,
PC2	Cobuilder	yes	2 manufacturers, eco-organism, legal expert	Construction products	Reuse, Repair, Refurbishing, Repurposing, Recycling	Contractors, quality control

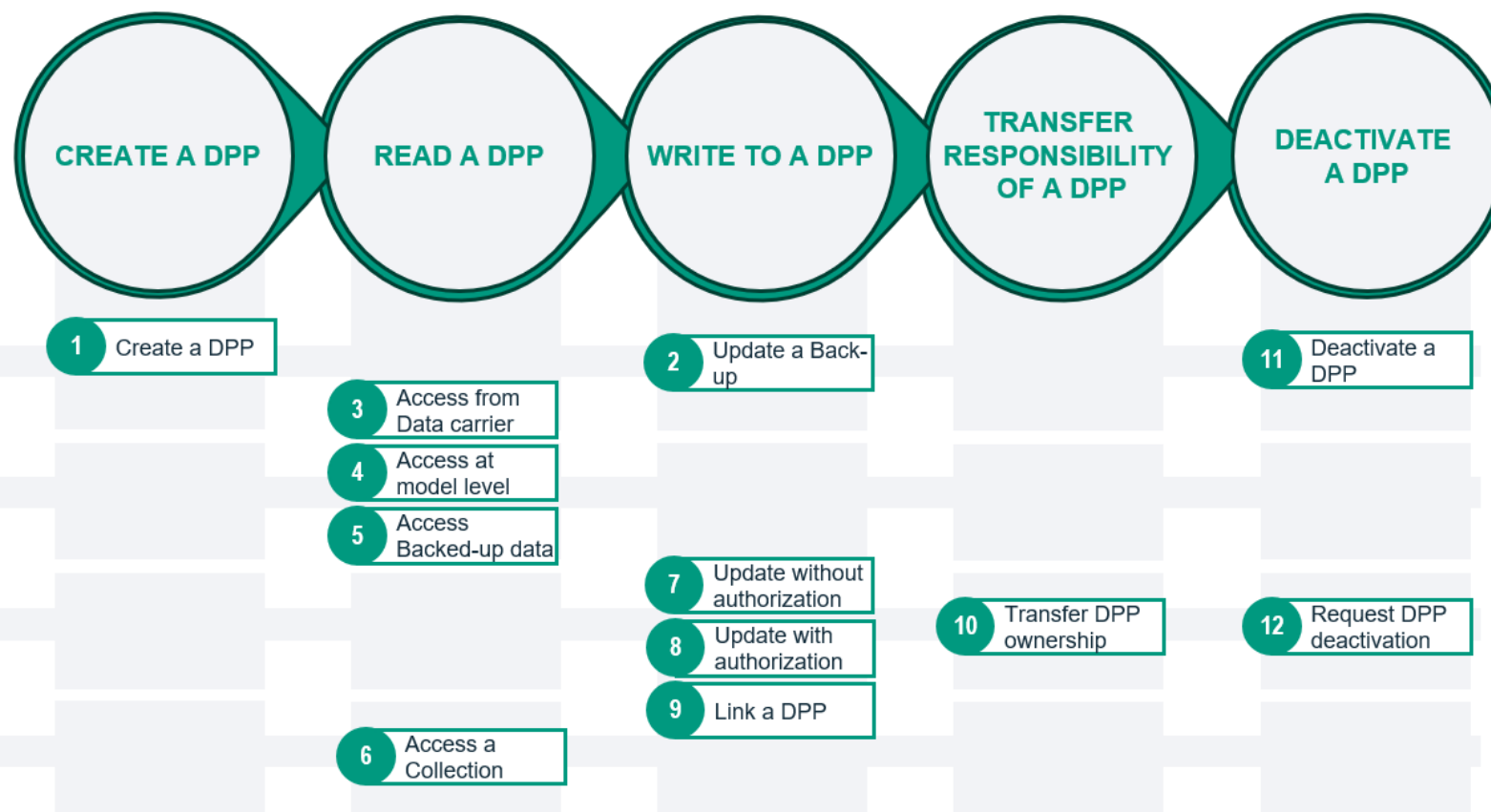
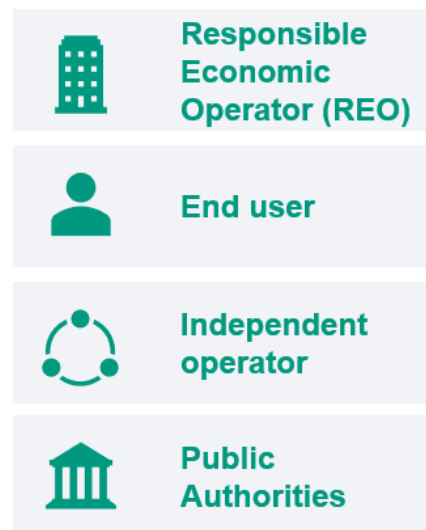
For more information please visit:
<https://cirpass2.eu/lighthouse-pilots/>

Requirements for the DPP IT system – User stories

USER STORY **N**

LIFECYCLE STAGES ▶

ROLES ▼



Download report



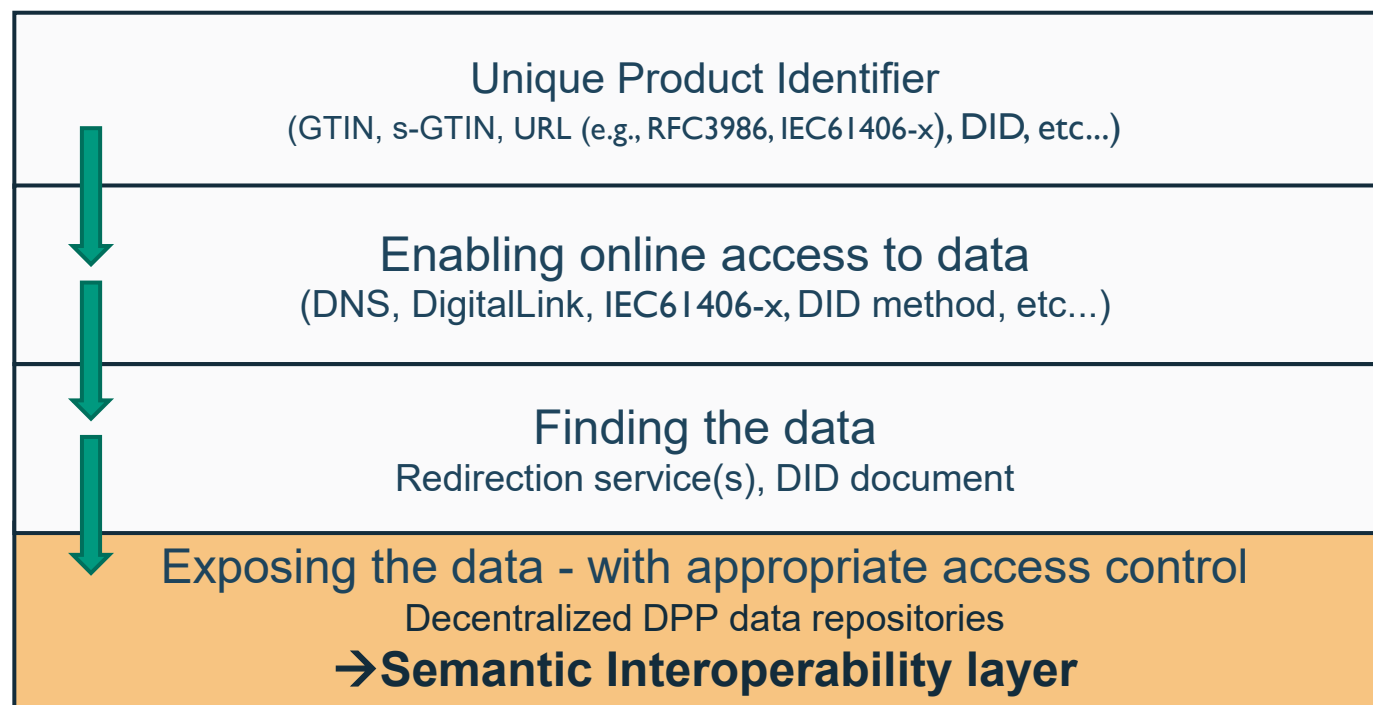
CIRPASS proposal for the DPP system: Flexibility built-in!

DPP-enabled
product



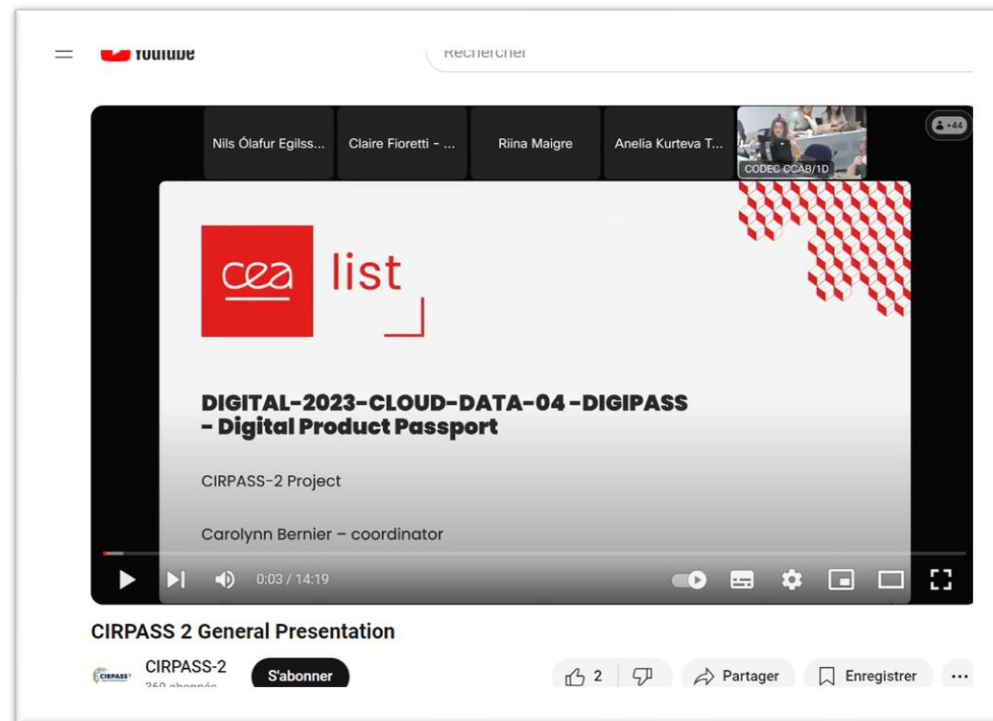
Semantic interoperability:

- across data ecosystems
- across sectors
- across jurisdictions (beyond EU)



For further general information about CIRPASS-2

- Please see 15 minutes presentation by Carolynn Bernier, project coordinator
- Available <https://cirpass2.eu/videos/>



Thank you!

www.cirpass2.eu

Contact us : info@cirpass2.eu



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Panel med fokus på virksomheds- og forbrugerperspektivet

Moderator: Betina Schiønning, Fagchef for Produktregulering og Håndhævelse, Dansk Erhverv

- Flying Tiger v. Britt Nørager Eriksen, Senior Compliance Development Specialist
- Spejder Sport v. Andreas David Laursen, Manager of Research & Development (R&D) and Compliance (ESG)
- Forbrugerrådet TÆNK v. Nikola Kiørboe, Seniorrådgiver
- MiCollect v. Merete Skov Pedersen, CEO og forperson for det danske standardiseringsudvalg for det digitale produktpas

Opsamling og afrunding

v. Betina Schiønning, Fagchef for Produktregulering og
Håndhævelse, Dansk Erhverv
&
Bjørn Nørrekjær Hvidtfeldt, Fagleder, Dansk Standard.

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