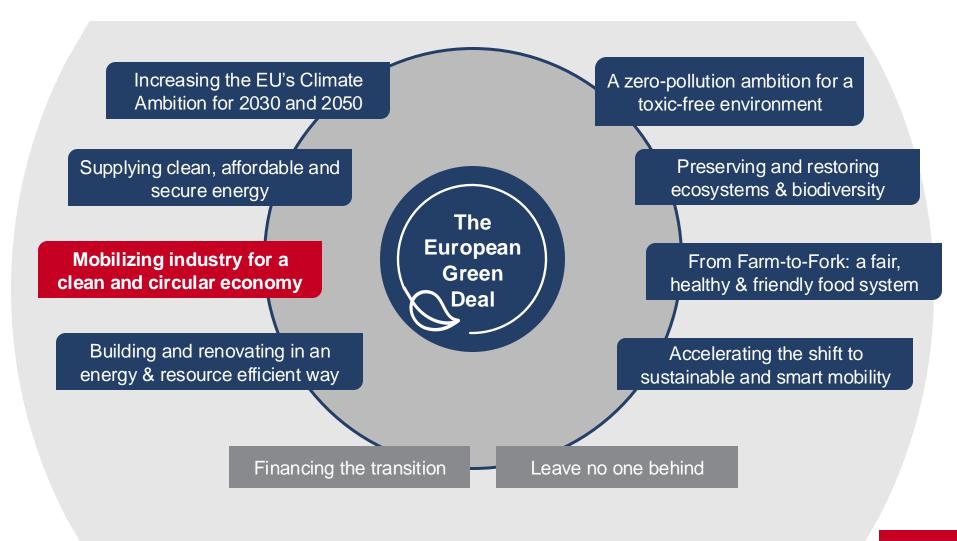


#### **Green Deal – EU's Man on the Moon Moment**





#### **Green Deal - EU's Man on the Moon Moment**







## **EUROPEAN GREEN DEAL**

Click on the title link to view the law

This document was last updated on: 10/07/2024



https://www.circulaw.nl

#### **ENERGY TRANSPORTATION** $\bigcirc$ • 0 0 0 0 0 00000 Energy Taxation **Combined Transport** Directive Directive CountEmissions EU regulation $\circ \circ \circ \bullet$ 00000 Ignalina programme

Revision Directive on

Directive on Technical

Roadside Inspections

of Commercial vehicles

Roadworthiness

**CLIMATE &** 

**EMISSIONS** 

**Environmental Noise** 

Industrial emmissions

Methane regulation

 $\circ \circ \circ \bullet$ 

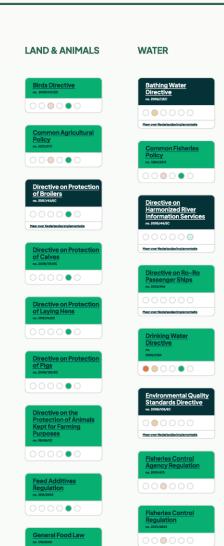
 $\bigcirc$ 

000000

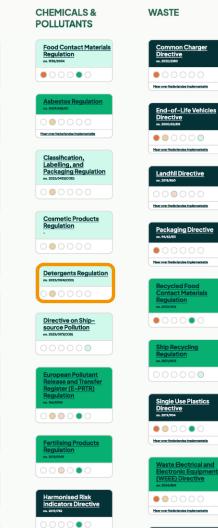
00000

 $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$ 

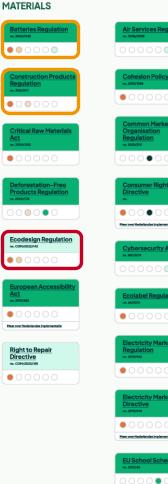
Carbon Removals



Fishery Statistics



Waste Framework



**PRODUCTS &** 



**CONSUMER GOODS** 



00000

**Environmental Impact** 

00000

InvestEU Regulation



```
\circ \circ \circ \circ \circ \circ
  Mercury Regulation
00000
  Microplastic Pellets
Regulation
 Nitrates Directive
Ozone Regulation
\bullet
  Pesticides Statistics
Regulation
no. 1385/2009
000000
000000
  Authorisation, and
Restriction of
Chemicals (REACH)
Directive
Restriction of
  (RoHS) Directive
\bullet
  Seveso III Directive
 00000
  Pesticides Directive
 0 0 0 0 0 0
  Toy Safety Directive
```

```
000000
Mear over Nederlandse Implementatie
```

<u>Directive</u>

no. 2018/851

Hormones Directive

```
000000
                            00000
 Green Claims Directive
                             EU Taxonomy
• 0 0 0 0 0
                             Nutrition and Health
Claims Regulation
                              Farm Sustainability
Data Network (FSDN)
00000
                            000000
  Market Manipulation
                              Environment and
Climate Action (LIFE)
•00000
 Sale of Goods Directive
                            000000
Economic Accounts
 Solvency Directive
 Textile Labelling
Regulation
                            00000
Practices Directive
• 0 0 0 • 0
                            000000
000000
                              Whistle-Blower
                              Directive
                             0 0 0 0 0 0
                             Meer over Nederlandse Implementatie
```

no. 2011/92/EU

00000

 $\bullet$   $\circ$   $\circ$   $\bullet$   $\circ$   $\circ$ 

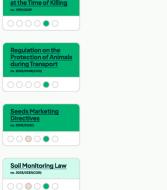
Multiannual Financial Framework Regulation

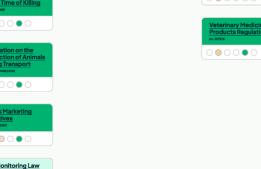
 $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$ 

 $\circ \circ \circ \circ \circ \circ$ 

00000

nancial Programm r Decommisionir





#### **CLIMATE NEUTRAL BY 2050**

The European Union aims to be climate neutral by 2050; an ambition that's known as the 'Green Deal'. Under the Green Deal, a great deal of new legislation is being

The different regulations and directives address several different perspectives of the climate neutrality effort.

Here, we give you an overview, including the current status of each proposal and the area of applicability.



proposed, revised or already enacted.

#### Instrument status (as of July 2024):

#### **IMPLEMENTED**

This Directive has been implemented into Dutch legislation, while Regulations are not subject to implementation.

#### ADOPTED

European lawmakers have reached consensus on the final version of the proposal, which has been formally adopted following a vote.

#### **UNDER NEGOTIATION**

The law is currently being negotiated with FU lawmakers.

#### Instrument referenced in:









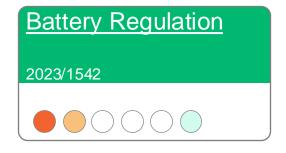




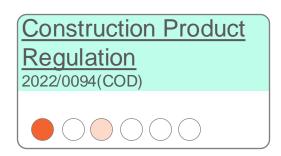
Sustainable & Smart **Mobility Strategy** 

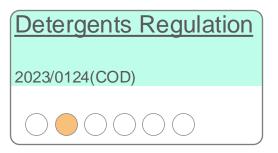


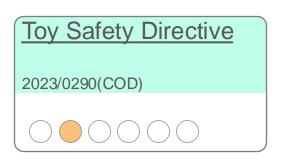
#### EU Green Deal Initiatives Requiring DPPs (5 out of 168)











- Circular Economy Action Plan
  - Zero Pollution Action Plan
- **Biodiversity Strategy**

- Fit for 55 Package
- Farm to Fork Strategy
- Sustainable & Smart Mobility Strategy





#### **Making Sustainable Products the Norm**



#### Strategy for Sustainable and Circular Textiles

- Binding eco-design requirements, incl. durability, reparability, and recycled fiber content
- → Stop microplastics pollution
- → Tackle fast fashion, textile waste, and the destruction of unsold products
- → Accurate green claims
- ♦ Sustainable global value chains

## New rules to empower consumers for the green transition

- Protection against greenwashing and the deliberate planning or design of products with limited lifespans
- → Information on product durability and reparability



### Making Sustainable Products the Norm

Complementary sectoral rules on construction and other product categories (e.g. batteries, chemicals, packaging) **Ecodesign for Sustainable Products** Regulation (ESPR) → Performance and information requirements for

- → Tackle the destruction of unsold goods
- → Waste prevention and reduction
- → Mandatory criteria for green public procurement
- → Digital Product Passport and new labeling rules
- → Stronger market surveillance

#### Support for circular business

**Ecodesign Working Plan** 

→ New rules for consumer electronics

- → Furopean circular business hub

#### New rules to empower consumers for the green

Strategy for Sustainable and

→ Binding eco-design requirements, incl.

→ Tackle fast fashion, textile waste, and

→ Accurate green claims ♦ Sustainable global value chains

- > Protection against greenwashing and



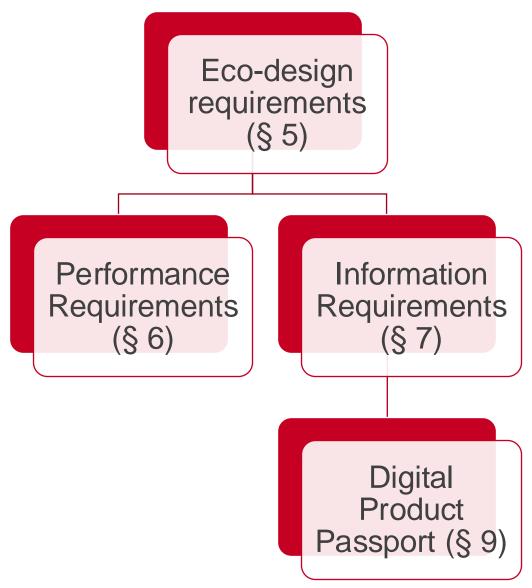
- → Corporate sustainability due diligence

#### **D** • BASF We create chemistry

# Ecodesign for Sustainable Products Regulation (ESPR)

- → Performance and information requirements for greener products
- → Tackle the destruction of unsold goods
- → Waste prevention and reduction
- → Mandatory criteria for green public procurement
- → Digital Product Passport and new labeling rules
- → Stronger market surveillance

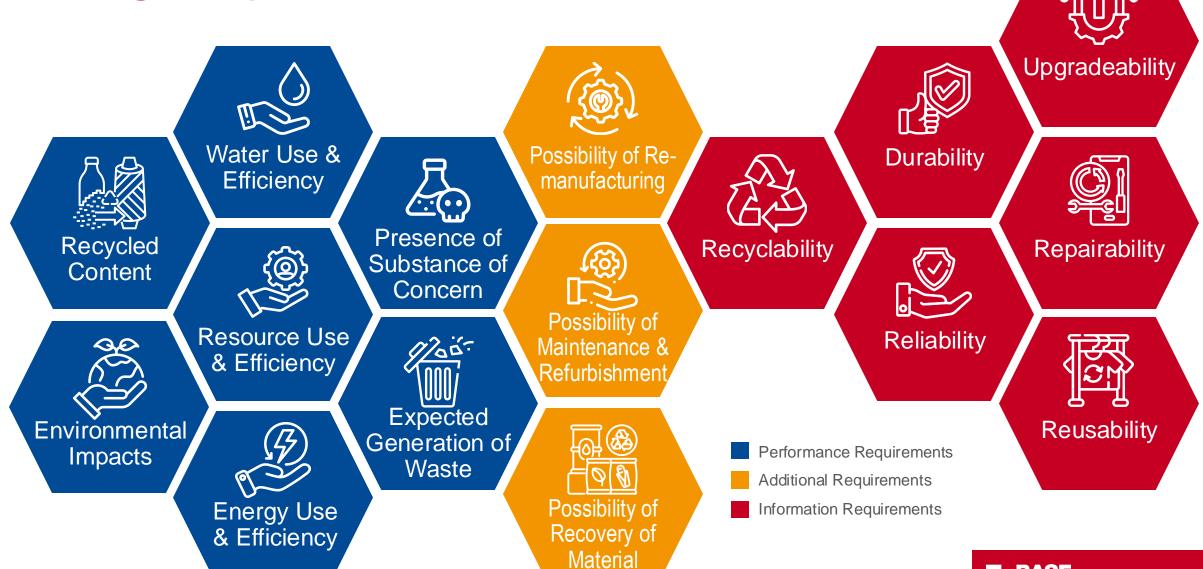
## Critical Aspects of the Ecodesign for Sustainable Product Regulation



- Durability, reliability, reusability, upgradability
- Reparability: possibility of maintenance and refurbishment
- Presence of substances of concern
- Energy use or energy efficiency
- Resource use or resource efficiency
- Recycled content
- Possibility of remanufacturing and recycling
- Possibility of recovery of materials
- Environmental impacts, including carbon and environmental footprint
- Expected generation of waste materials



## Ecodesign Requirements (see ESPR §5)



### What is a Substance of Concern (SoC) (see ESPR §2.27 ff)

- a) Regulation (EC) No 1907/2006, Article 59 → **REACH**, Substances of very high concern (SVHCs)
- b) Annex VI to Regulation (EC) No 1272/2008 → Classification and Labelling (CLP) Regulation
  - carcinogenicity categories 1 and 2
  - germ cell mutagenicity categories 1 and 2
  - reproductive toxicity categories 1 and 2
  - endocrine disruption for human health categories 1 and 2
  - endocrine disruption for the environment categories 1 and 2
  - persistent, mobile and toxic or very persistent, very mobile properties

- persistent, bioaccumulative and toxic or very persistent, very bioaccumulative properties
- respiratory sensitisation category 1
- skin sensitisation category 1
- hazardous to the aquatic environment categories chronic 1 to 4
- hazardous to the ozone layer
- specific target organ toxicity repeated exposure categories 1 and 2
- specific target organ toxicity single exposure categories 1 and 2
- c) Regulation (EU) 2019/1021, Persistent Organic Pollutants (POPs) legislation
- d) Negatively affects the reuse and recycling of materials in the product in which it is present.



## What Shall Not Be Covered by the Ecodesign for Sustainable Product Regulation (ESPR)?

Article 1, Paragraph 2

This (Ecodesign for sustainable Product) Regulation applies to **any physical goods** that are **placed on the market or put into service**, including **components** and **intermediate products**. However, it does not apply to:



Food

Regulation (EC) 178/2002



Feed

Regulation (EC) 178/2002



Medicinal products for human use

Directive 2001/83/EC



Veterinary medicinal products

Regulation (EU) 2019/6



Living plants, animals and micro-organisms



Products of human origin



Products of plants and animals relating directly to their future reproduction



**Vehicles** 

Regulation (EU) 167/2012, Regulation (EU) 168/2023, Regulation (EU) 2018/858



## What Shall Be Covered by the Ecodesign for Sustainable Product Regulation (ESPR)?

Article 1, Paragraph 2

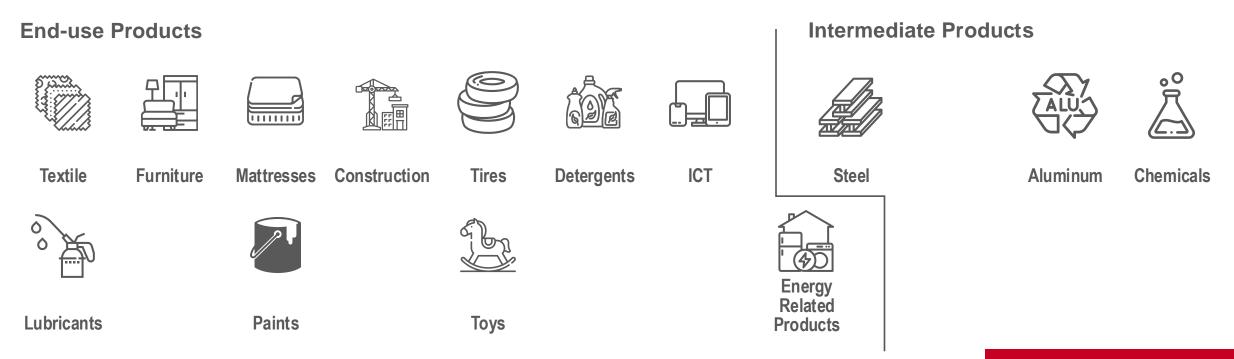
This (Ecodesign for sustainable Product) Regulation applies to **any physical goods** that are **placed on the market or put into service**, including **components** and **intermediate products**.



## What Shall Be Covered by the Ecodesign for Sustainable Product Regulation (ESPR)?

Article 18, Paragraph 5

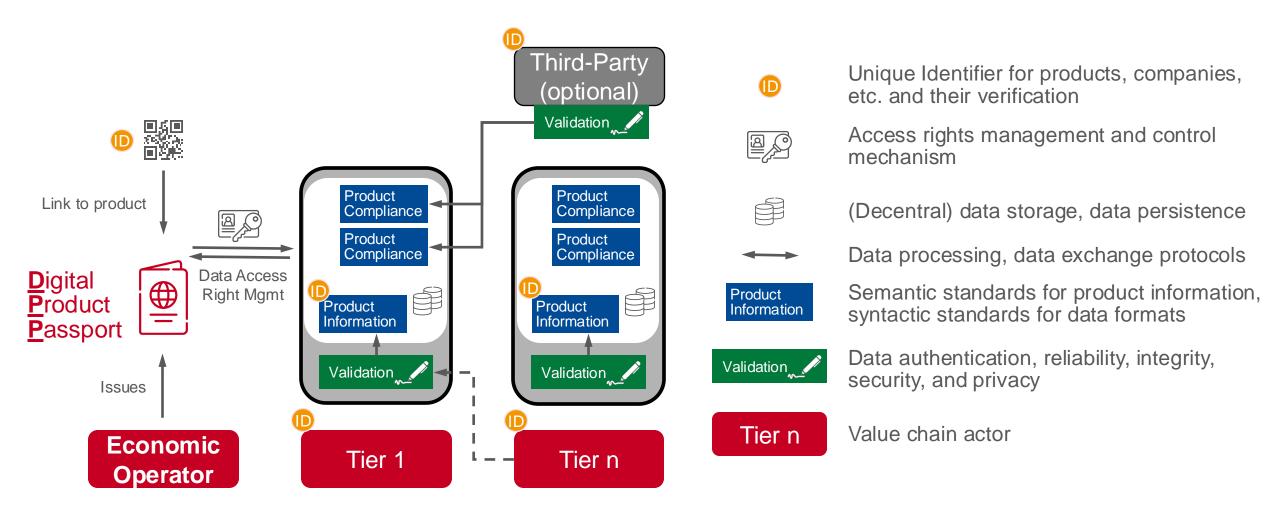
In the first working plan, which shall be adopted by 19 April 2025, the Commission shall prioritise the following product groups.



## Why is a Digital Product Passport (DPP) Required

- The Ecodesign for Sustainable Product Regulation (ESPR) requires the introduction of digital product passports (DPPs)
  - ▶ §1.1: "This Regulation also establishes a digital product passport, provides for the setting of mandatory green public procurement requirements and creates a framework to prevent unsold consumer products from being destroyed." and
  - ▶ §1.2: "This Regulation applies to any physical goods that are placed on the market or put into service, including components and intermediate products."
- ESPR §4 empowers the commission to adopt **delegated acts** (... that) shall include at least the elements listed in §8.
- ESPR §8 requires that products may only be placed on the market or put into service if a digital product passport ('product passport') is available in accordance with delegated acts to be adopted under the future Regulation.

## What is the Digital Product Passport (DPP)? (see ESPR §9 - §15)





## What is the Digital Product Passport (DPP)? (see ESPR §9 - §15)

#### **DPP System Standardization Request (SREQ)** WWW Look-up **Access Rights Unique Identifier Data Carrier DPP Web Portal** Mechanism Management Data **Data Storage &** Authentication, **Data Security & DPP Registry** Interoperability Persistence Reliability, Integrity Privacy

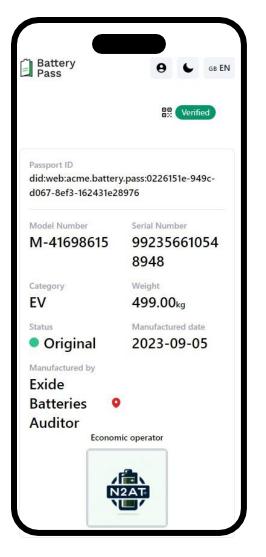






## **DPP Vision / Battery Passport**

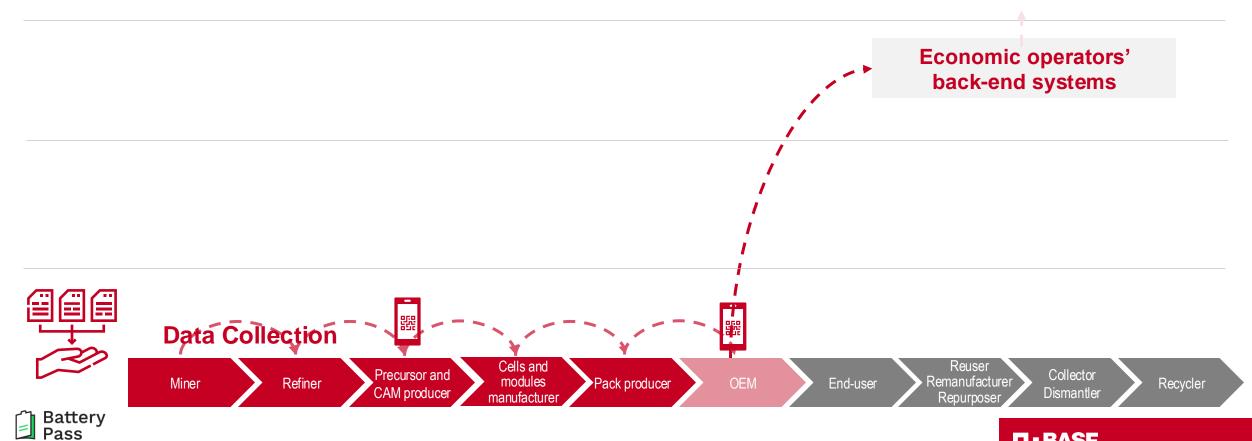












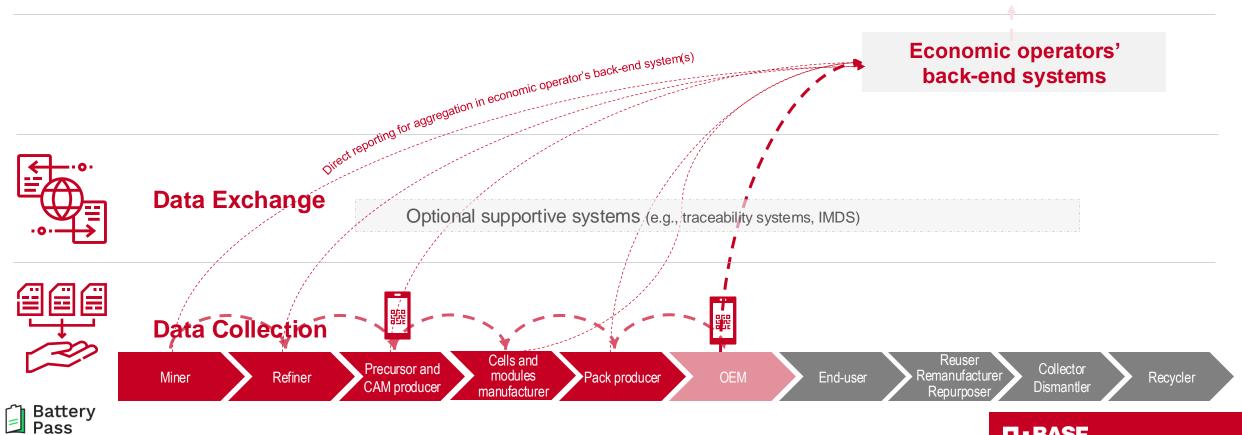








#### **Battery Passport Systems**



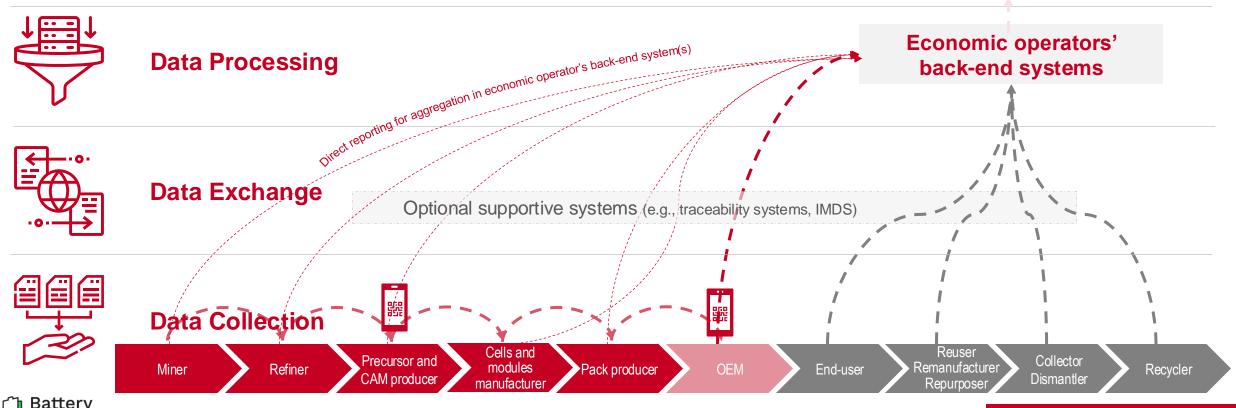








#### **Battery Passport Systems**









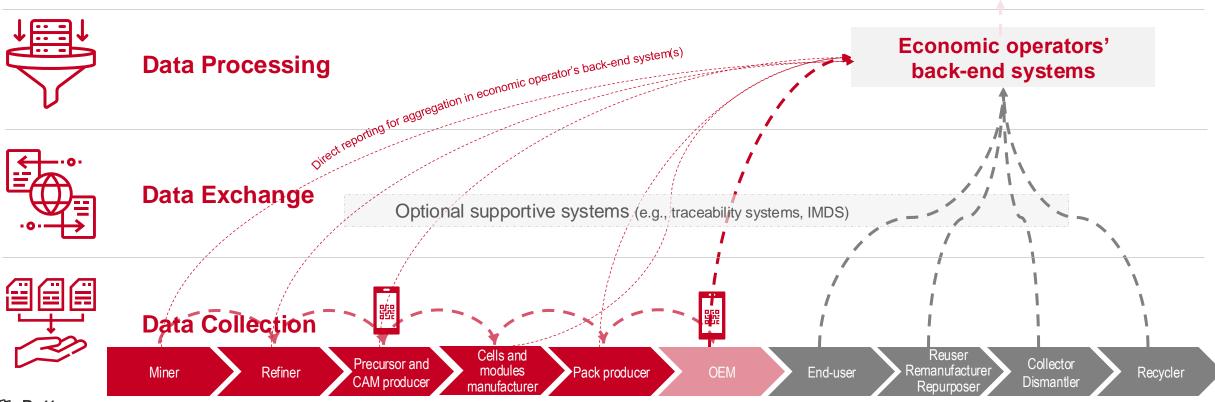
**Data Access** 

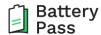






**Battery Passport Systems** 



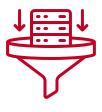






**Data Access** 

Lifecycle Management, Roles & Responsibilities



**Data Processing** 

Audit, Rulesets, Standards



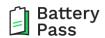
**Data Exchange** 

Interoperability ("What", "How")



**Data Collection** 

Availability, Automation, Harmonization, Sovereignty, Validation





### **DPP-Reality In the Process Industry. ID Link**

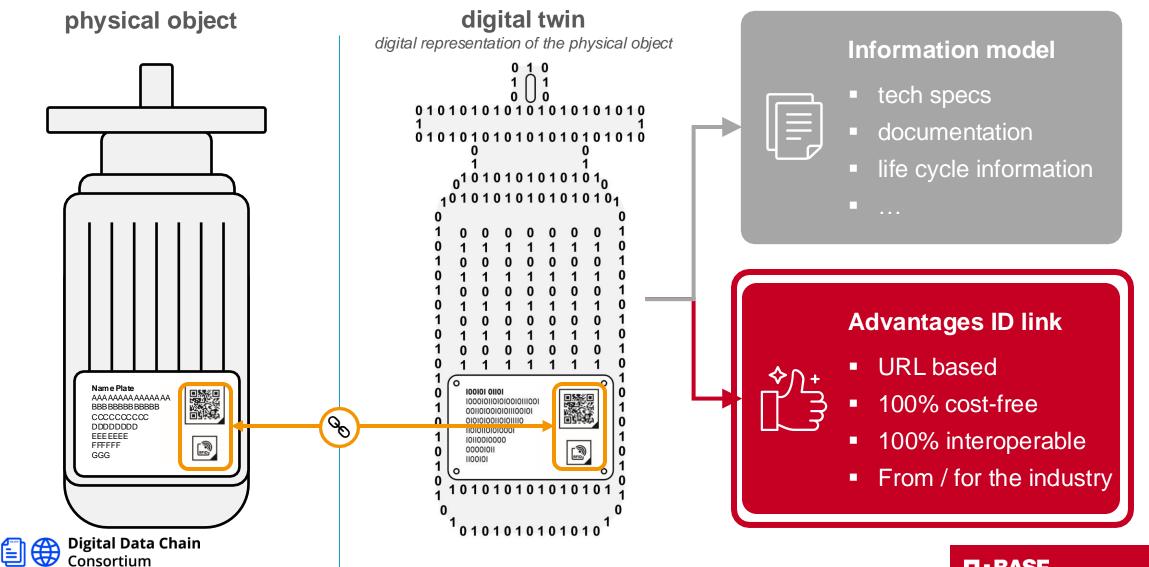




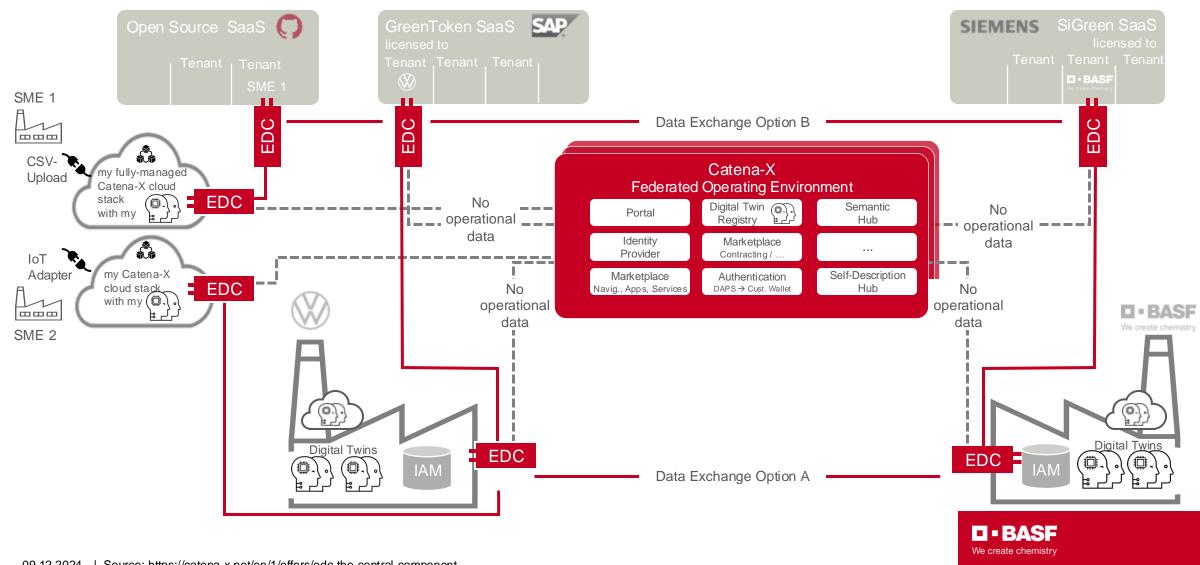


Digital Data Chain Consortium

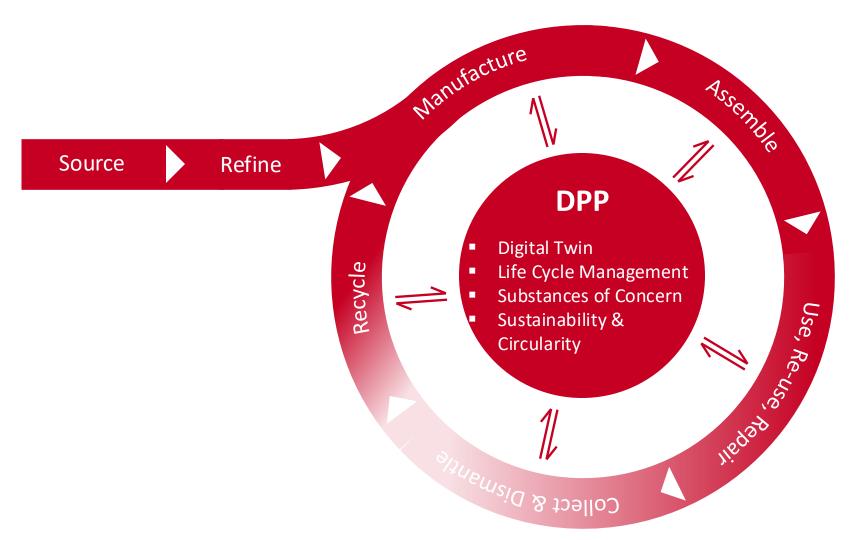
### **DPP-Reality In the Process Industry. ID Link**



### Catena-X Architecture to Power Sovereign Data Exchange for DPP



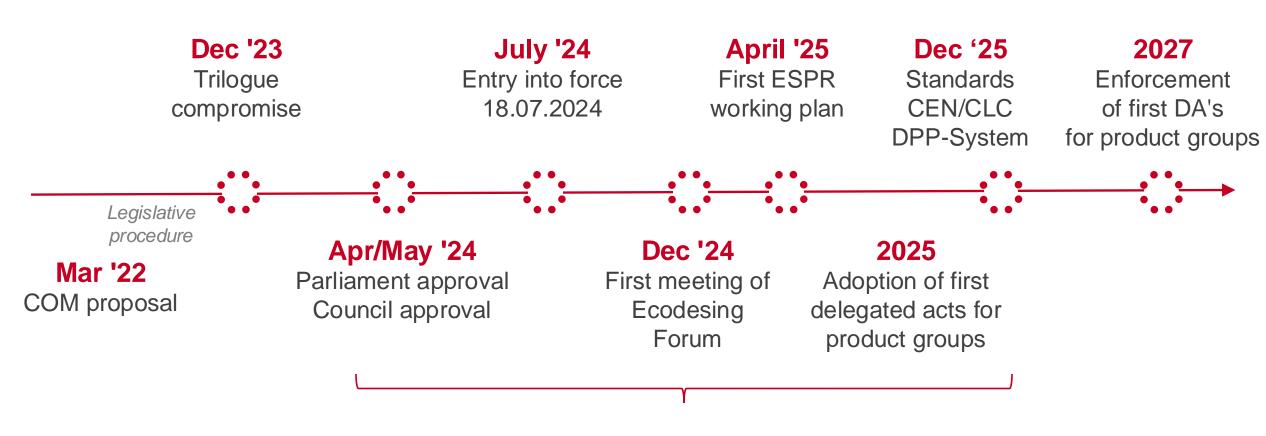
## Mind the Product Lifecycle and the Involved Data



- Do you know your supply chain actors who can access the DPP data?
- Right granularity (model, batch, item)?
- DPP-Data available?
- Backup of the DPPs done?
- Market surveillance mechanisms?



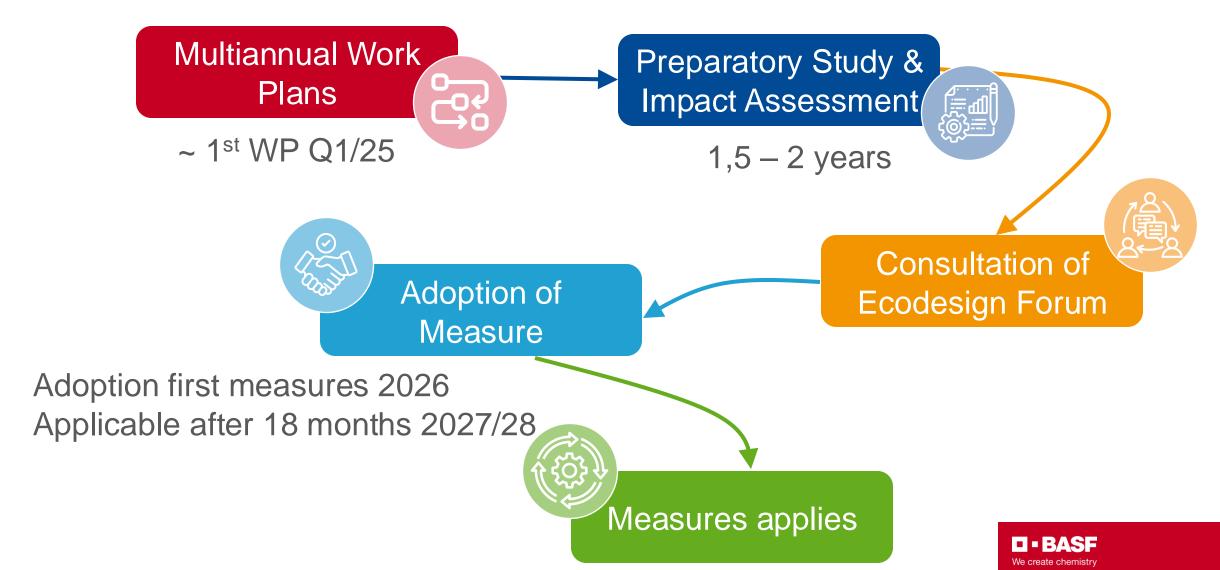
#### **Timeline**



Preparatory studies and stakeholder surveys



#### Timeline con't



#### Wrap-up & Checklist

- 1. Is there a viable **Business Case**?
- 2. Are you an **Economic Operator**?
- 3. Are your **products falling under** the **ESPR**?
- 4. Is your **product part of** a prioritized **product groups**?
- 5. Are you aware of the data required to report on the **Ecodesign Requirements**?
- 6. Are you aware of the **product categories**' priorities and **timelines**?
- 7. Do you possess the relevant **information**, **performance**, and **additional requirements**?
- 8. Is your MDM / PIM ready to host the DPP-Data?
- 9. Do you know the downstream actors and their R&Rs along the product lifecycle?
- 10. Are you aware of the **market surveillance** mechanism?
- 11. Can you issue a unique identifier for the granularity required?
- 12. Can you back up DPPs?
- 13. Is there a viable Business Case?



### **Take Home Messages**

- Horizontal DPPs are key
  - ► Standards for technical implementation
  - ➤ Standards for Interoperability ("what" & "how")
  - Standards for assessment algorithms (e.g. PCF)
- Data Sovereignty is key
  - Decentralized DPP Data Storage
- Chem-X addresses these key requirements
  - ► Launch & Press Release in January 2025



## References in the Sequence of Appearance

- EU Green Deal EU's Man on the Moon Moment https://youtu.be/F2Z7rio5sow?si=ZK8jhl6a6SvvM-Rx
- EU Green Deal <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52019DC0640">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52019DC0640</a>
- EU Green Deal overview <a href="https://www.circulaw.nl/European green deal.pdf">https://www.circulaw.nl/European green deal.pdf</a>
- Batteries and waste batteries regulation, (EU) 2023/1524 https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1781
- Ecodesign for Sustainable Product Regulation (ESPR), (EU) 2024/1781 <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1781">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1781</a>
- Proposal for Construction Product Regulation (CPR), 2022/0094(COD) − https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:52022PC0144
- Proposal for Detergents and Surfactants Regulation, 2023/0124(COD) https://eur-lex.europa.eu/legal-content/en/TXT/?uri=COM:2023:217:FIN
- Proposal for Toys Safety Regulation, 2023/0290(COD) <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:52023PC0462">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:52023PC0462</a>
- EU Green Deal Legislative Train Schedule <a href="https://www.europarl.europa.eu/legislative-train/theme-a-european-green-deal">https://www.europarl.europa.eu/legislative-train/theme-a-european-green-deal</a>
- Make sustainable Products the norm <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52022DC0140">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52022DC0140</a>
- Ecodesign for Sustainable Product Regulation (ESPR) <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1781">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32024R1781</a>
- JRC Preliminary Study on New Product Priorities (Draft) <a href="https://susproc.jrc.ec.europa.eu/product-bureau/sites/default/files/2023-01/Preliminary%20ESPR%20WP%20Report\_MERGED\_CLEAN\_.pdf">https://susproc.jrc.ec.europa.eu/product-bureau/sites/default/files/2023-01/Preliminary%20ESPR%20WP%20Report\_MERGED\_CLEAN\_.pdf</a>
- JRC Preliminary Study on New Product Priorities <a href="https://publications.jrc.ec.europa.eu/repository/handle/JRC138903">https://publications.jrc.ec.europa.eu/repository/handle/JRC138903</a>
- Critical Aspects of the DPP <a href="https://cirpassproject.eu/wp-content/uploads/2024/03/A2-EC-Michele-Galatola.pdf">https://cirpassproject.eu/wp-content/uploads/2024/03/A2-EC-Michele-Galatola.pdf</a>
- ESPR EU COM Homepage <a href="https://commission.europa.eu/energy-climate-change-environment/standards-tools-and-labels/products-labelling-rules-and-requirements/ecodesign-sustainable-products-regulation\_en</a>
- DPP System Standardization Request (SREQ) <a href="https://ec.europa.eu/growth/tools-databases/enorm/mandate/604\_en">https://ec.europa.eu/growth/tools-databases/enorm/mandate/604\_en</a>
- The Battery Pass project <a href="https://thebatterypass.eu">https://thebatterypass.eu</a>
- Digital Data Chain Consortium Identity Link <a href="https://www.digitaldatachain.com">https://www.digitaldatachain.com</a>
- Catena-X Architecture and Offering <a href="https://catena-x.net/en/1/offers/edc-the-central-component">https://catena-x.net/en/1/offers/edc-the-central-component</a>
- ESPR Timeline and next steps https://commission.europa.eu/document/download/c5db3b9e-23ae-42c8-a50a-b549f20a377d\_en?filename=2024\_05\_22\_EC%20Presentation%20ESPR%20Webinar\_final.pdf





We create chemistry

## Thank you!



#### **Questions? Comments? Please connect with me**



/in/adrian-von-muehlenen



Book an appointment



adrian.von-muehlenen@basf-intertrade.com



+49 172 86 99 530

