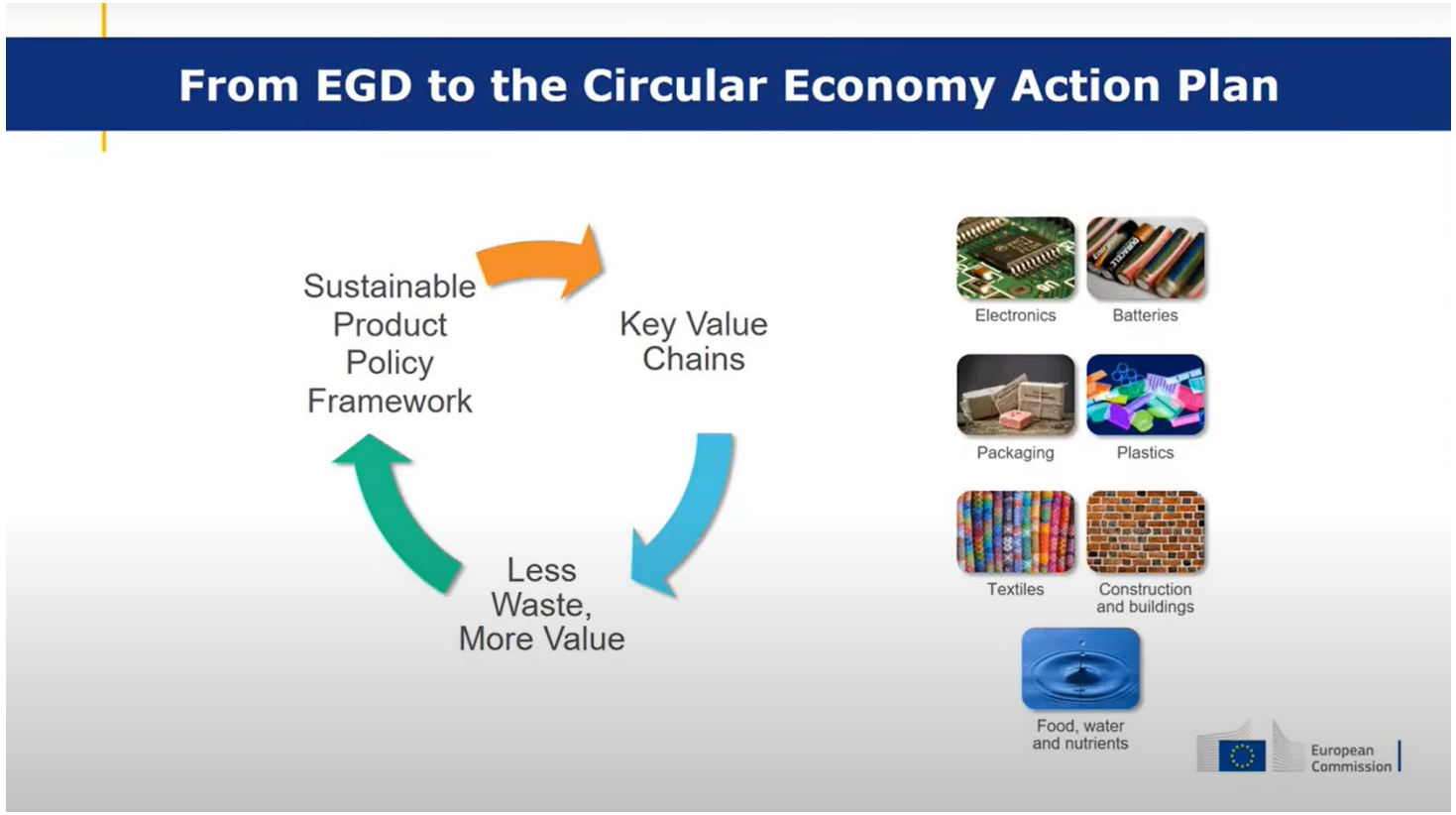
GS1 Switzerland

Digital Product Passport der EU – DPP ready mit GS1

Präsentation für den Sustainability Circle

Jonas Batt, Head of Industry Engagement
Consumer Goods/Retail

Ecodesign for sustainable Products Regulation (ESPR)

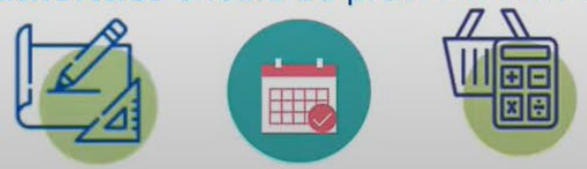


Die Ecodesign for Sustainable Products Resolution (ESPR) Verordnung wurde im EU Parlament am 23.04.2024 angenommen. Diverse Kategorien von Konsumgütern (exkl. Food jedoch Kunststoffe resp. Verpackungen) sind im Fokus der EU für eine Kreislaufwirtschaft in den kommenden Jahren.

EU Digital Product Passport

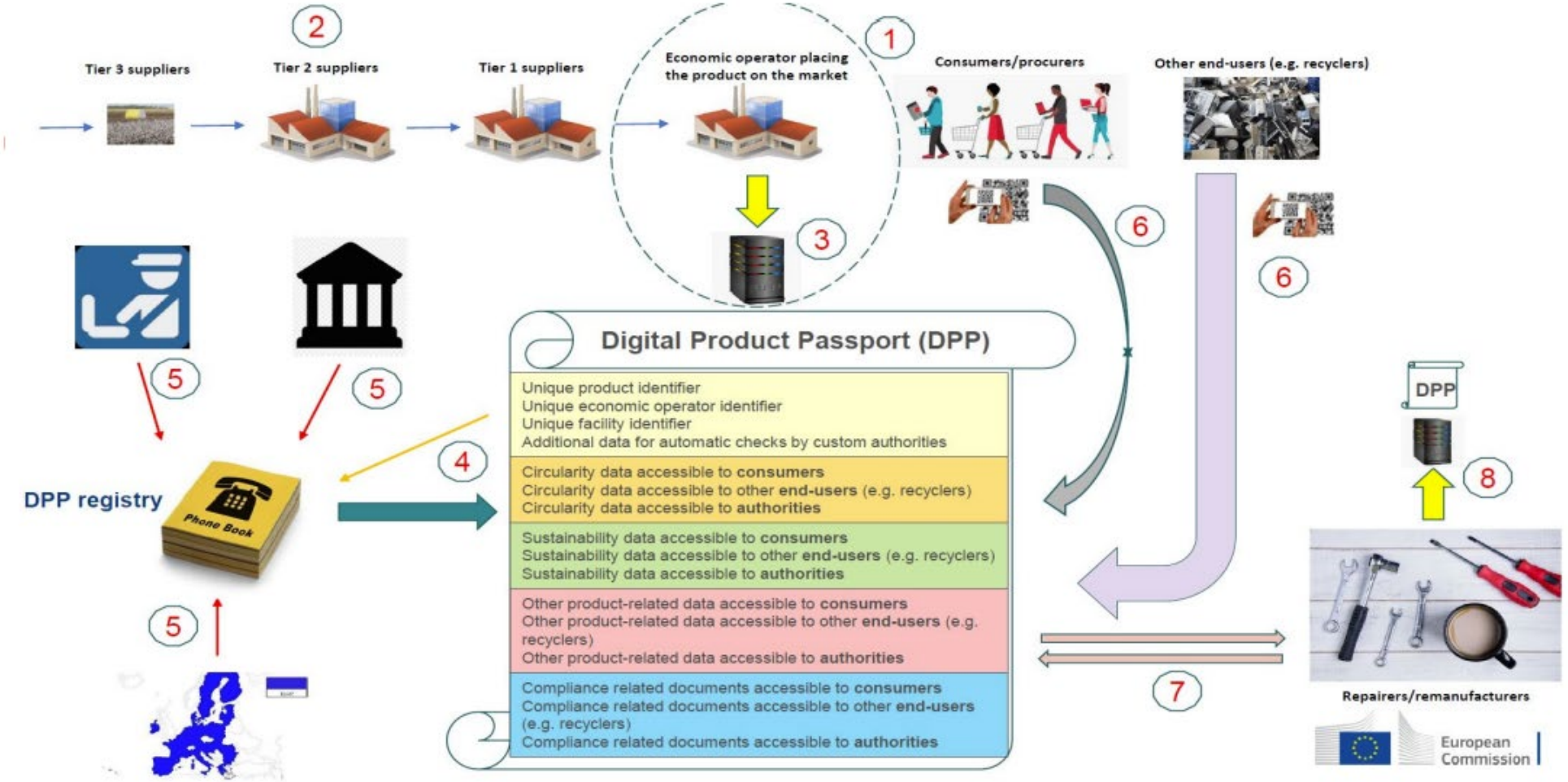
Spotlight on: Digital Product Passport

- Product sustainability and increased information **go hand-in-hand**
- **What is a Product Passport**?
  - Usually, a combination of **(1)** a **unique product identifier**, **(2) data** collected on the product by different value chain actors, **(3)** a **physical link** (tagging) between the product and the data.
- **Three main target groups** of the SPI Product Passport:
  - **Consumers** should be provided with clear information about the sustainability of the products they purchase, including on durability, repair and disposal options.
  - **Economic operators** should be enabled to receive relevant value chain information, including on technical and sustainability-related aspects of products
  - **Surveillance authorities** should be provided with key information on product compliance



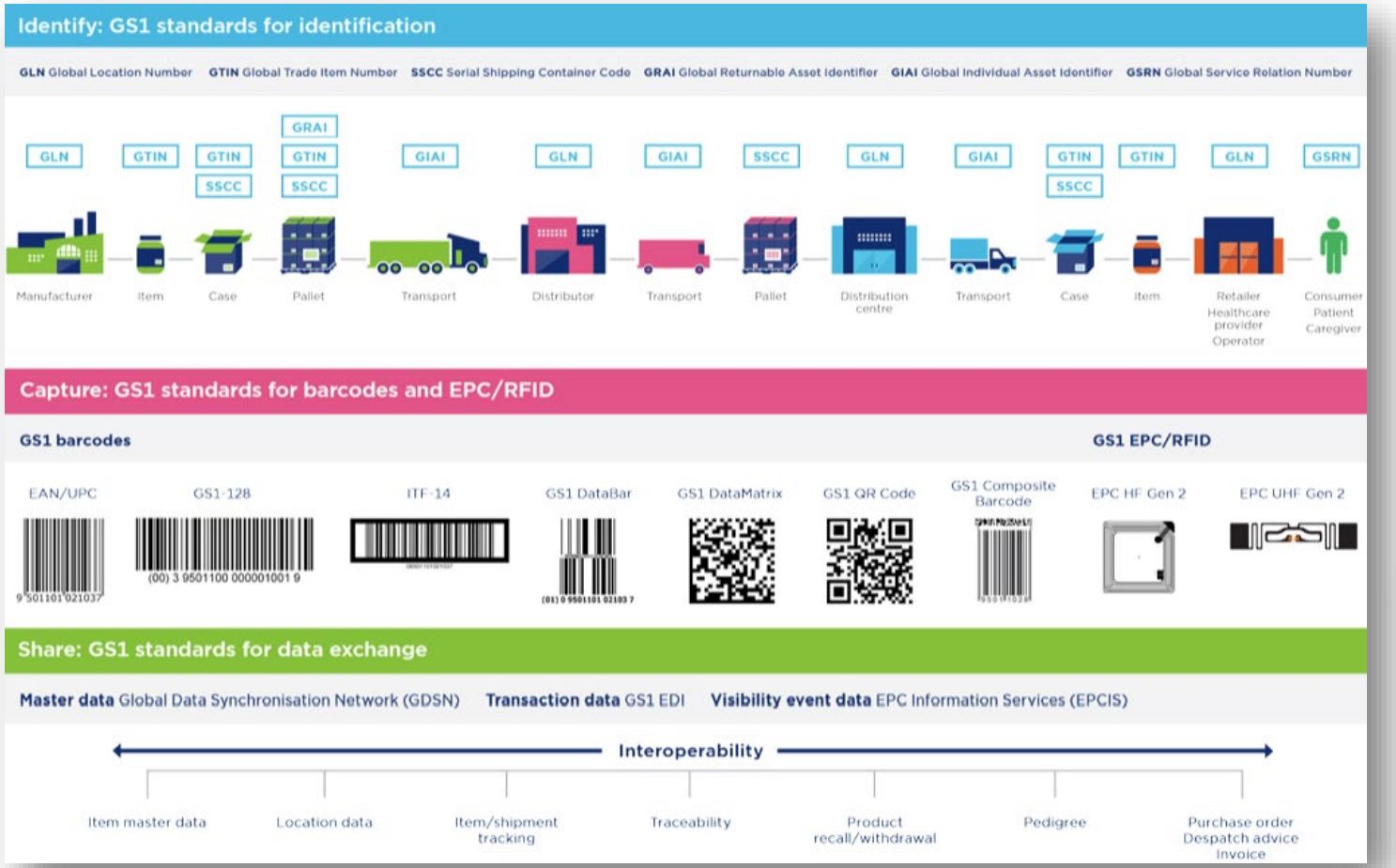
European Commission

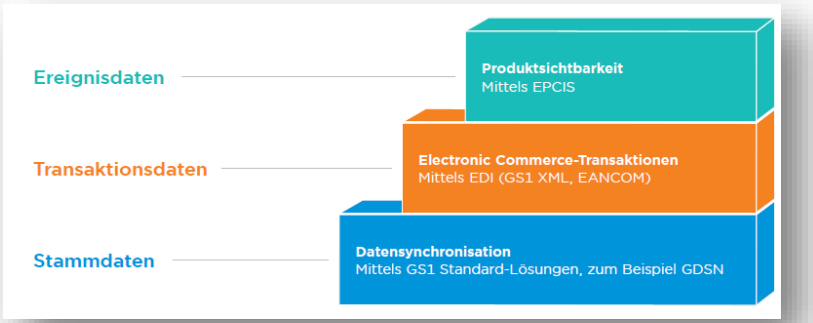
Ecodesign for Sustainable Products Regulation (ESPR) fordert einen Digital Product Passport



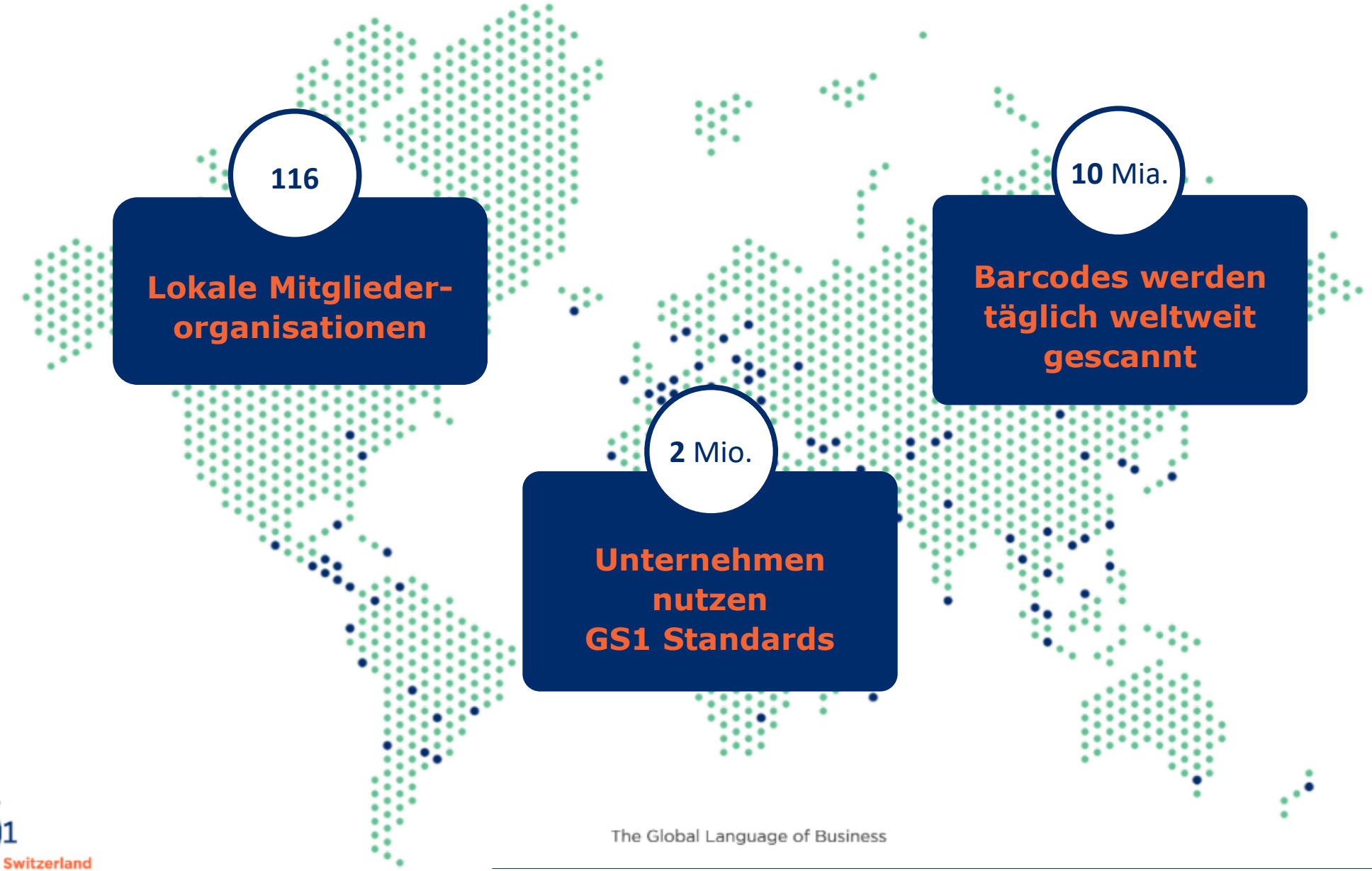
GS1 Standards

Ein globales Konzept zur eindeutigen Identifikation, Digitalisierung und Teilen von Supply Chain Daten





Über GS1 Global



Über GS1 Switzerland

Ecodesign for Sustainable Products Regulation (ESPR) fordert einen Digital Product Passport (DPP)

Non- & Near-Food

Next steps – first **working plan** / prioritisation

- Which products to regulate first?
- A transparent and inclusive process towards the 1st ESPR Work Plan

Food (Packaging)

Figure IV. The 7 shortlisted **intermediate products**.

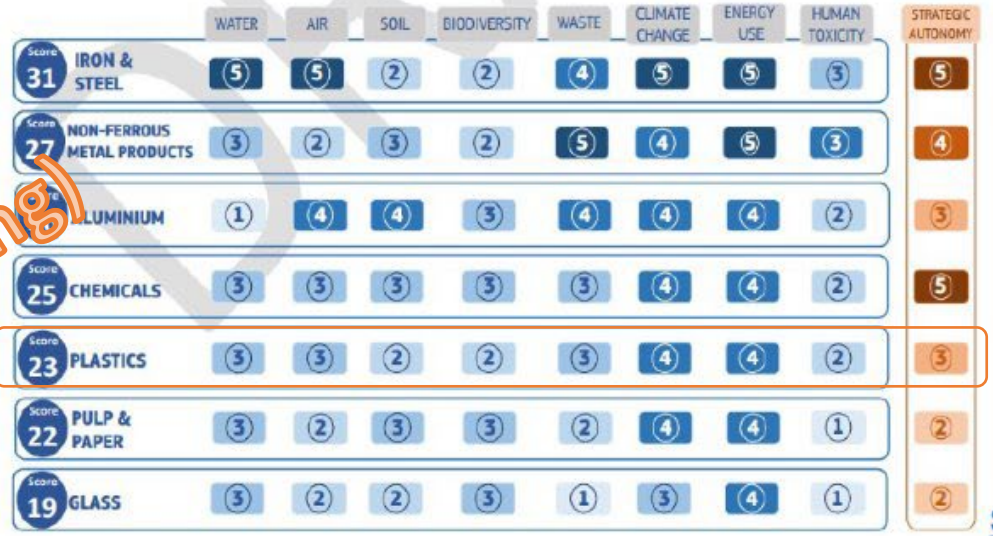
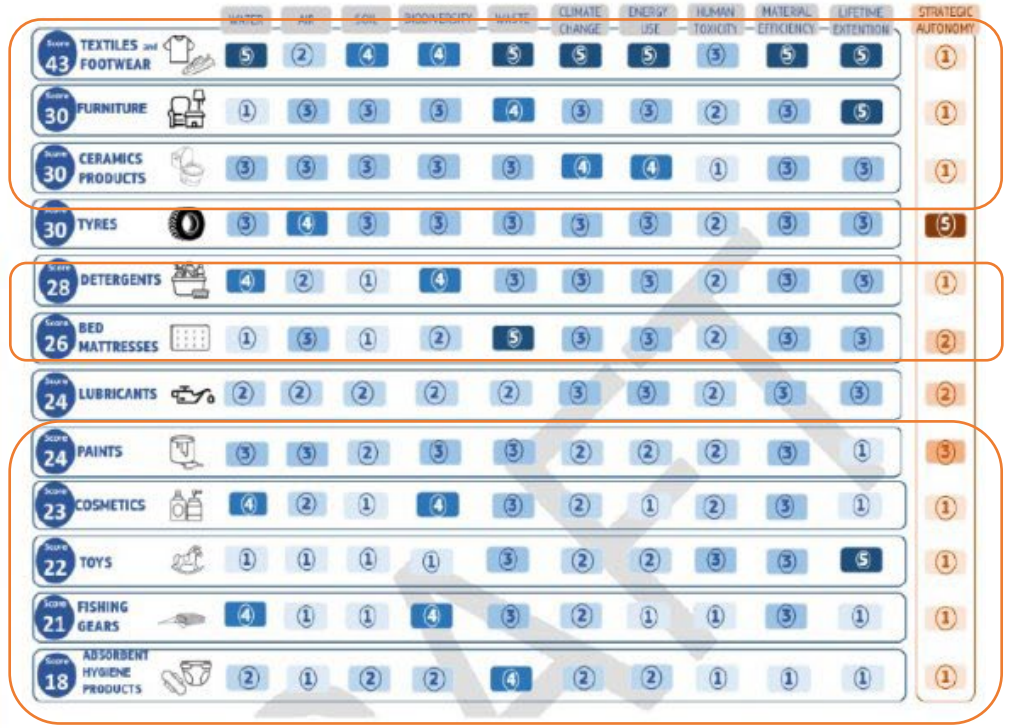


Figure III. The 12 shortlisted **end-use products**.

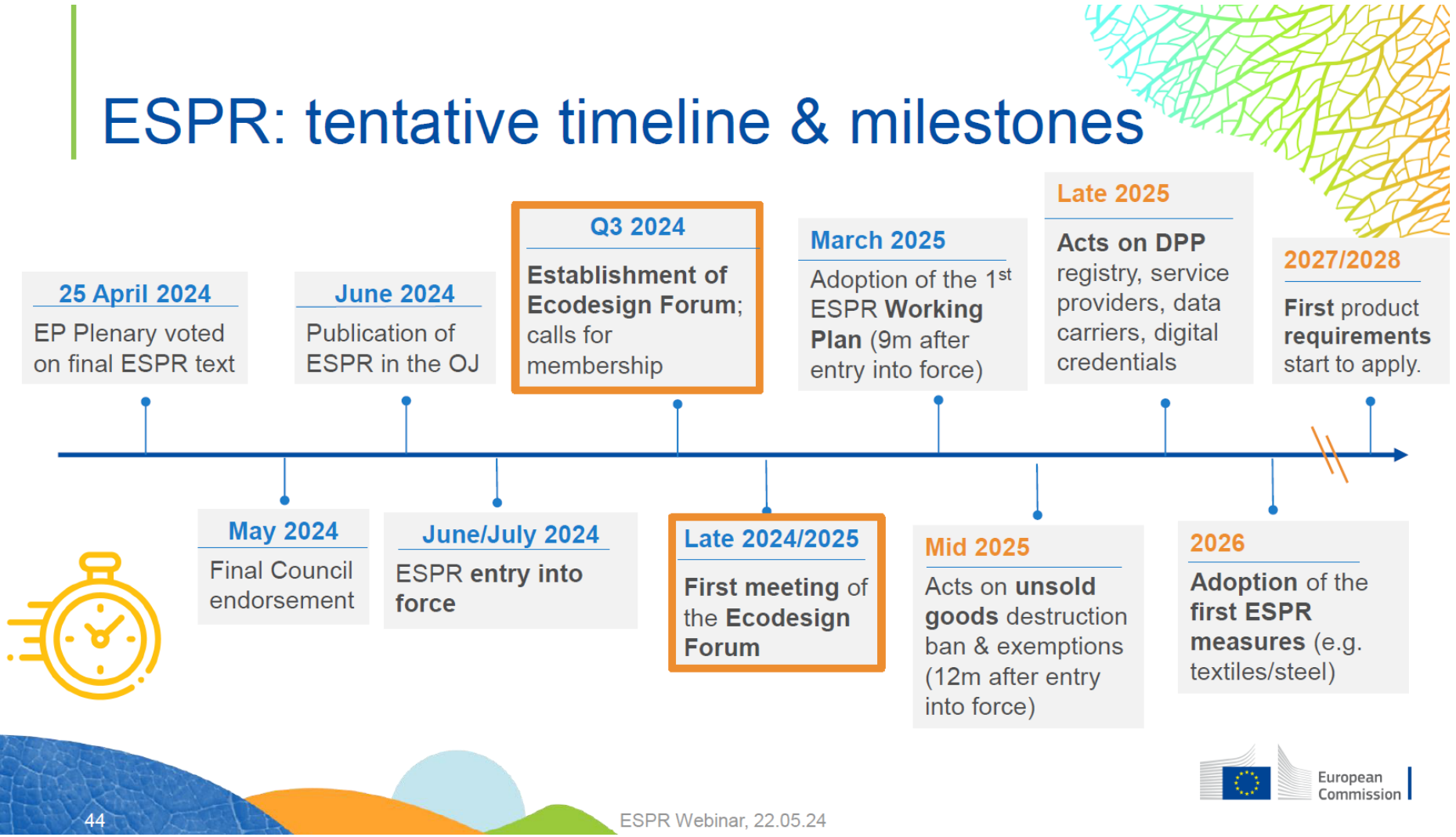


Source: JRC Preliminary ESPR WP Report

European Commission

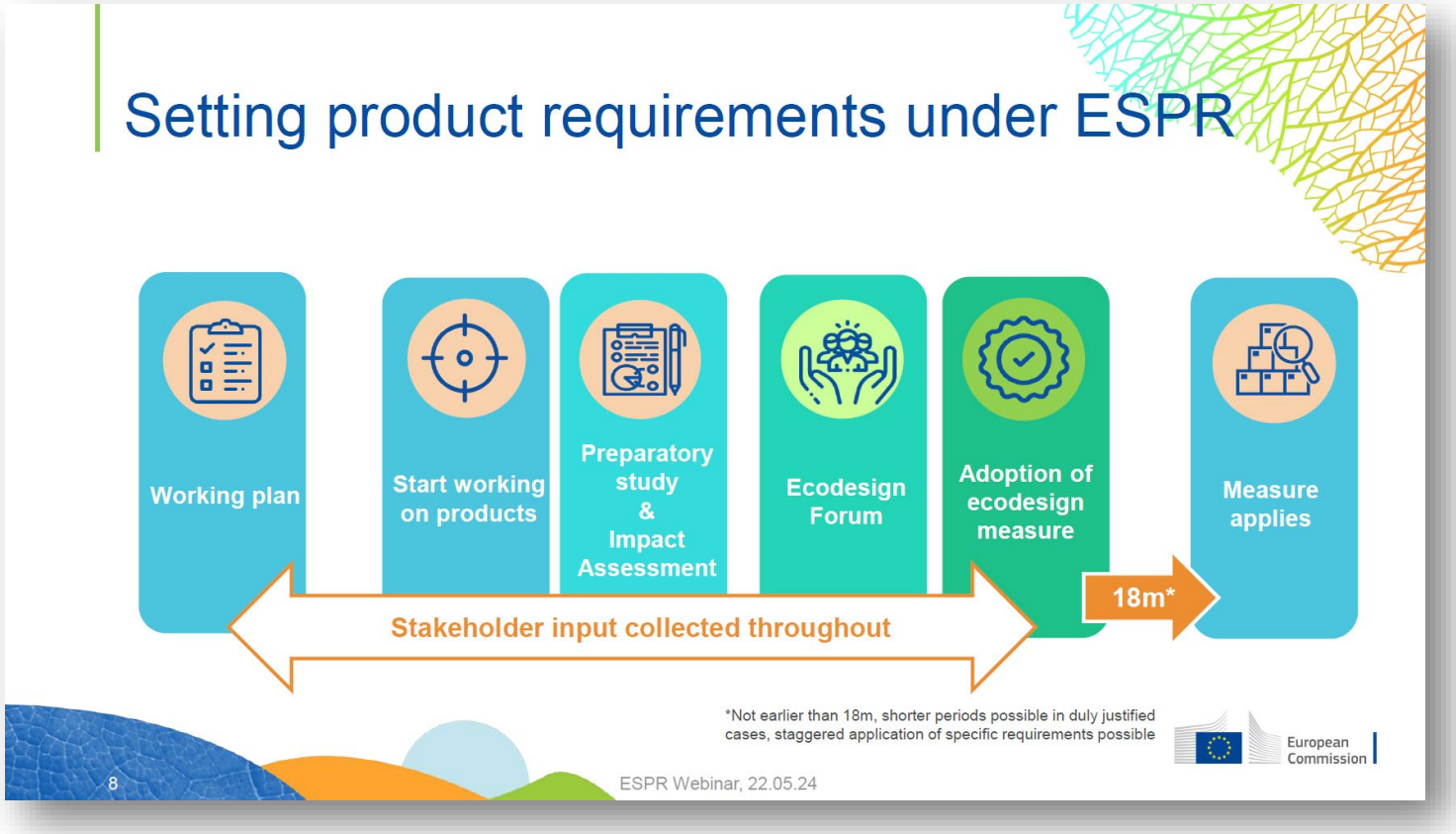
DPP Timeline (tentative per 22.05.24)

ESPR: tentative timeline & milestones



DPP Prozess pro Kategorie

Unternehmen/ Verbände können die Anforderungen pro Kategorie 18 Monate vor Implementierung in EU Ecodesign Foren diskutieren



Mögliche DPP Anforderungen

Non- & Near-Food

Key product aspects under ESPR

Article 5 – Ecodesign requirements

Table 10. Regulated aspects and improvement potential aspects not currently regulated in the EU for the 12 shortlisted end-use products

Mögliche DPP Anforderungen pro Kategorie

TEXTILES

Regulated aspects

Emissions during production
Fibre names and labelling
Separate collection of textiles waste
EU Ecolabel criteria (voluntary)
GPP criteria (voluntary)

Potential ESPR requirements

- Minimum recycled content in product and in packaging
- Maximum limit of water consumption during production
- Maximum limit of chemical consumption during production
- Design for reliability, recyclability and durability
- Design for minimising water consumption during use
- Maximum limit of fertilisers, pesticides and insecticides
- Minimum content of material with sustainability certification
- Maximum level of GHG emissions
- Limiting the number of materials used in a single product
- Use of components and material coding standards
- Use of design techniques that ease non-destructive disassembly and re-assembly
- Availability of guarantees specific to remanufactured clothing
- Use of modular design
- Maximum level of energy consumed
- Restricting the use of certain materials or manufacturing practises
- Minimum durability and reliability

FURNITURE

Regulated aspects

EU Ecolabel criteria (voluntary)
GPP criteria (voluntary)

Potential ESPR requirements

- Minimum recycled content
- Design for disassembly and repair, re-use, refurbishing and recycling
- Minimum content of raw material with sustainability certification
- Design ensuring the durability
- Limiting the number of materials used in a single furniture product
- Design techniques that ease non-destructive disassembly and re-assembly
- Compatibility with commonly available spare parts
- Minimum durability and reliability
- Availability of spare parts
- Use of components and material coding standards
- Minimum percentage of energy use from low carbon sources

TYRES

Regulated aspects

Emissions during production
Fuel efficiency, wet/ice grip, external rolling noise and suitability for severe snow use
Efficient management of tyres

Potential ESPR requirements

- Recycling and recycled content target
- Reliable testing measures for abrasion
- Re-trading tyres for waste reduction
- Upgrading the rolling resistance
- Sustainable sourcing for rubber

CERAMICS

Regulated aspects

Environmental impact
Specific regulations, such as floor covering Commission Decision (EU) 2021/476 and building COMMISSION STAFF WORKING DOCUMENT (2016) 180

Potential ESPR requirements

- Maximum limit of water consumption
- Design for minimising water consumption during use
- Design for reliability and disassembly
- Minimum recycled content
- Sourcing of raw materials from certified sustainable practices
- Maximum weight per item
- Minimum percentage of energy use from low carbon sources
- Minimum service life for plaster moulds
- Technical lifetime and resistance to stress
- Availability of spare parts
- Maximum level of GHG emissions
- Maximum energy consumed during manufacturing

DETERGENTS

Regulated aspects

Emissions to water
Information related to dosage
Labelling of ingredients
Environmental and human health risk assessment
EU Ecolabel criteria (voluntary)

Potential ESPR requirements

- Availability of spare parts and refills
- Maximum limit of water and energy consumption
- Minimum content of biodegradable substances/materials
- Prohibition of secondary packaging in certain cases
- Maximum level of product-to-packaging ratio
- Minimum content of material with sustainability certification
- Mandatory design of refillable packaging ratio
- Design for minimising water consumption during use
- Minimum cleaning performance at low temperature

BED MATTRESSES

Regulated aspects

EU Ecolabel criteria (voluntary)
GPP criteria (voluntary)

Potential ESPR requirements

- Design for disassembly, refurbishing and recycling
- Minimum content of materials with sustainability certification
- Minimum recycled content
- Minimum durability
- Maximum level of GHGs emitted
- Maximum energy consumed during manufacturing
- Minimum percentage of energy use from low carbon footprint sources

Mögliche DPP Anforderungen pro Kategorie

Table 9 (continued). Regulated aspects and improvement potential aspects not currently regulated in the EU for the 12 shortlisted end-use products

LUBRICANTS

Regulated aspects

Emissions during production (under revision).
Waste collection and disposal.
Separate collection of textiles waste.
EU Ecolabel criteria (voluntary).

Potential ESPR requirements

- Maximum level of GHG emissions.
- Minimum percentage of recycled oil in lubricant.
- Design to determine a maximum coefficient on friction.
- Design to ease reuse.
- Minimum durability.
- Minimum percentage of energy use from low carbon sources.

COSMETICS

Regulated aspects

Protection of human health.
Use of nanomaterials.
Ban of animal testing.
Ban and restriction of certain hazardous substances.
Information on the packaging.
Use and justification of claims used in the cosmetic products.
Environmental and human health risk assessment.
EU Ecolabel criteria (voluntary).

Potential ESPR requirements

- Prohibition of secondary packaging in certain cases.
- Maximum limit of water consumption.
- Maximum energy consumed during manufacturing.
- Mandatory design of refillable packaging.
- Maximum level of product-to-packaging ratio.
- Availability of refills and spare parts.
- Design for minimising water consumption during use.
- Minimum content of material with sustainability certification.
- Minimum content of biodegradable substances/materials.

FISHING GEARS

Regulated aspects

Labelling (plastic nature) and informational (e.g. share of plastic/metal/rubber) requirements.
Waste delivery to harbours.
Use of fishing gears, characteristics, construction limitations and prohibitions.

Potential ESPR requirements

- Design of traps and pots with effective escape mechanism with biodegradable mechanisms.
- Design to allow the traceability of components.
- Design to facilitate separation of recyclable materials.
- Minimum recycled content.

PAINTS

Regulated aspects

Emissions of VOCs.
Environmental and human health risk assessment.
Ambient air quality assessment and management.
Waste management.
EU Ecolabel criteria (voluntary).

Potential ESPR requirements

- Minimum packaging-to-product ratio.
- Design for reliability.

TOYS

Regulated aspects

Safety of use.
Ban and restriction of certain hazardous substances.
Waste management.

Potential ESPR requirements

- Minimum recycled content.
- Design for minimum reliability and durability.
- Sourcing of materials from certified sustainable practices.
- Design to facilitate reuse, repair, refurbishing and recycling.
- Availability of spare parts.
- Minimum percentage of energy use from low carbon sources.

AHP

Regulated aspects

Safety of use.
Labelling requirements on plastic composition.
Environmental and human health risk assessment.
EU Ecolabel criteria (voluntary).

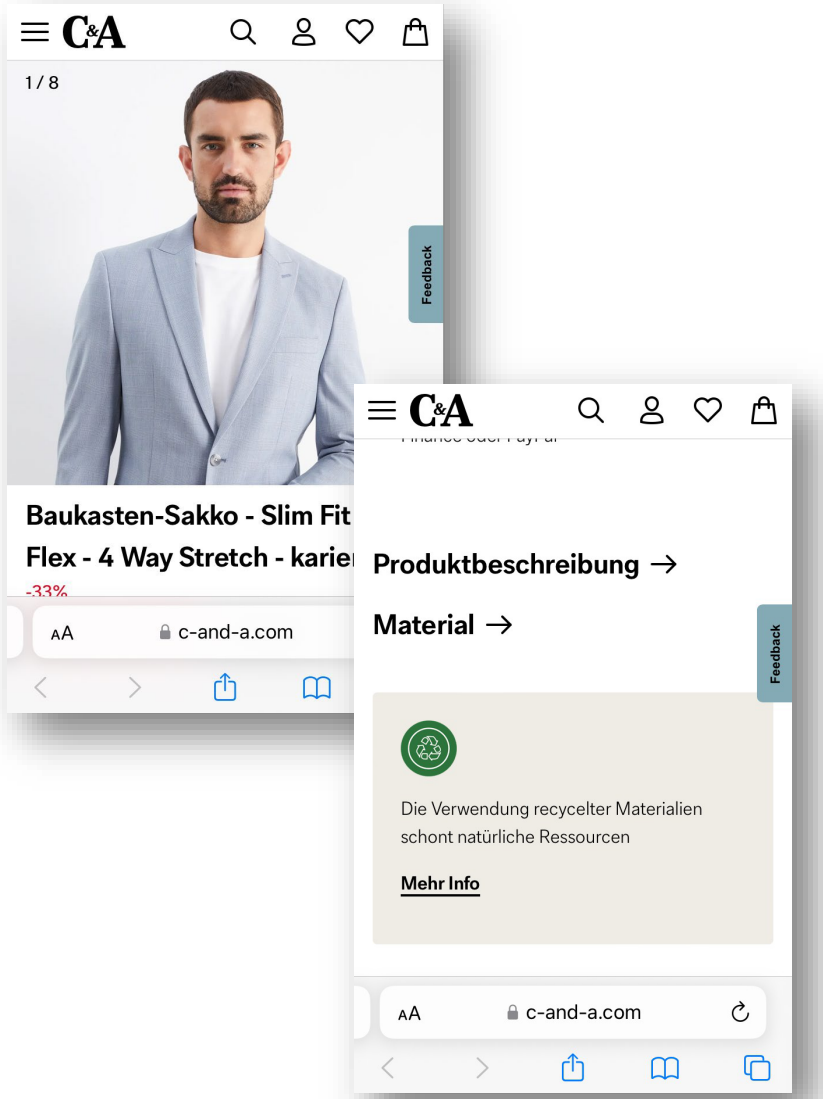
Potential ESPR requirements

- Minimum recycled content.
- Design for disassembly.
- Minimum content of material with sustainability certification.
- Design for recyclability.

Ecodesign for sustainable Products Regulation (ESPR)

- Globale Firstmover wie z.B. C&A sind bereits aktiv
- Sie nutzen den GS1 Digital Link*
- Beispiel: https://qr.c-a.com/01/04065547065277/21/1000030077

* kostenloser Service für GS1 Mitglieder



Ecodesign for sustainable Products Regulation (ESPR)

- Nationale Firstmover ziehen nach!!!
- Sie nutzen den GS1 Digital Link*

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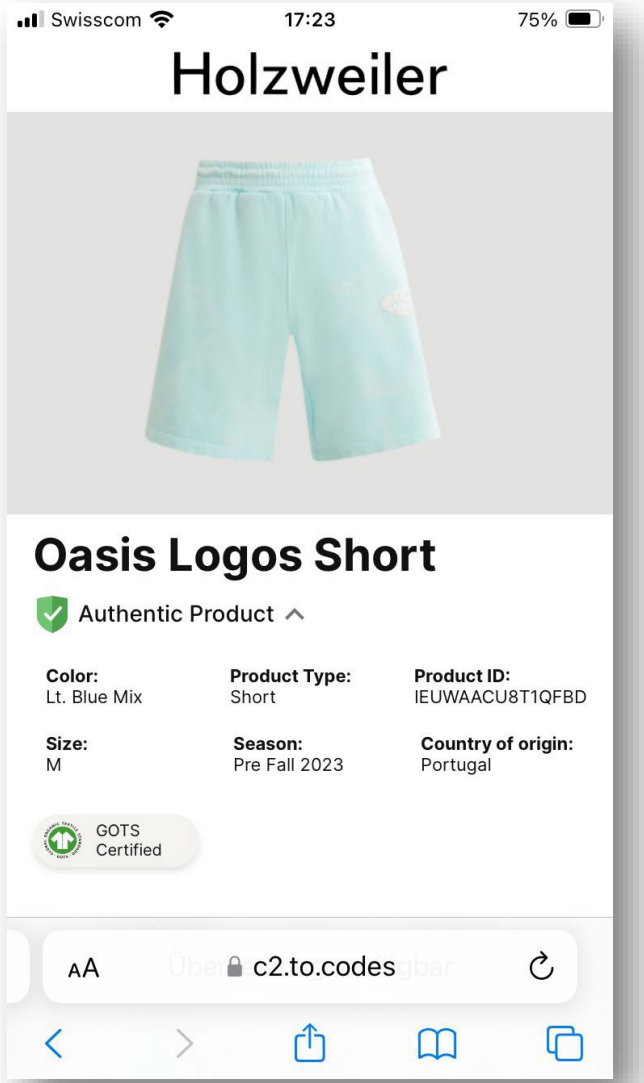
* kostenloser Service für GS1 Mitglieder



Der DPP bringt neue Vorgaben

Neue Massnahmen: a) Nachhaltigkeit als Einkaufskriterium in öffentlicher Beschaffung, b) Zerstörungsverbot für unverkaufte Ware, c) stärkere Marktüberwachung der genannten Kategorien

Ausgewählte GS1-DPP Unterstützer im Ökosystem

Joint statement on the Draft standardisation mandate on Digital Product Passport

In the context of the European Commission Draft Standardisation Request on the Digital Product Passport (DPP), we, representatives of ten associations, are **concerned about the provisions requiring the data carrier to include six cross-sectoral basic data elements that can be consulted offline**: (I) DPP owner; (ii) unique operator identifier; (iii) facility identifier; (iv) unique product identifier; (v) additional product identifier (optional); (vi) and product group (information on the type of product).[1]

These provisions would not add to information that is already generally found on pack (ie DPP owner and main facility) or is already implicit in the product description, which is also provided on the packaging (ie product group). Most crucially, these provisions would likely negatively affect the readability of the data carrier and lead to larger packages, while bringing economic operators unnecessary costs and complexities:

Ilias Iakovidis
DG CONNECT
European Commission

Michele Galatola
DG GROW
European Commission

GS1 Mitglieder nutzen bereits viele GS1 Tools

GDSN

2D-Datenträger

GS1 Digital Link

GS1 firstbase

GS1 Switzerland Mitglieder machen sich DPP-ready

- **READYNESS:** Erste GS1 Switzerland Mitglieder bereiten sich sowohl mit a) Daten und/ oder b) Systemen bereits jetzt auf den DPP vor
- **KOSTENLOS:** GS1 Switzerland Mitglieder können kostenlos bei uns für Ihre Schweizer GTIN (EAN Nummern) einen GS1 Digital Link lösen und die gewünschten Datenquellen anbinden
- **KONTROLLE:** Als Alternative kann sich auch jedes Unternehmen via Github Anleitung selber einen Resolver bauen und GS1 Digital Links für sich programmieren.
  Auf dem Kanal finden man auch noch viele weitere Bauteile, die helfen können, GS1 Standard zu unterstützen: https://github.com/gs1
  - Die verschiedenen LinkTypes von GS1 findet man hier: https://www.gs1.org/voc/?show=linktypes

GS1 White Paper

GS1 Digital Link (kostenloser Service für GS1 Mitglieder)

- GS1 Mitglieder können kostenlos **einzelne oder mehrere URL's** an den QR-Code mit der GTIN **anbinden**
- **Sie bestimmen wann, welche Links verfügbar sind** (z.B. bei Promotionen)
- Links **via GS1 Switzerland oder** von Ihnen via **API angebunden** werden
- Nutzbar für den **EU Digital Product Passport**

Anfragen für (Test)Produkte mit GTIN/GCP 076… via Kontaktformular

GS1 Switzerland Solution Partner für DPP

NEXSWISS

ID SYSTEMS identification automation

WIPOTEC

Vollständige Liste mit weiteren Fachgebieten unter https://www.gs1.ch/de/netzwerk/solution-partner/solution-partner-finden

GS1 Digital Link – die einfachste DPP Lösung

Non- & Near-Food & Food

Fragen & Diskussion

Wir helfen gerne

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