



This project is co-funded by the European Union and the Republic of Türkiye

Technical Assistance for Assessment of Türkiye's Potential on Transition to Circular Economy

EuropeAid/140562/IH/SER/TR

REGULATION ON ENVIRONMENTALLY FRIENDLY DESIGN REQUIREMENTS FOR SUSTAINABLE PRODUCTS (ESPR – EU No 1781/2024)


Activity 3.2.4. Training on Integrated Waste Management in Circular Economy

Özkan ÖZKARA-Ministry of Industry and Technology

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Ankara

- Legislation Transition
- The General Structure of the Legislation
- Objective and Scope of the Legislation
- Main Areas Regulated by the Legislation
- Databases and Digital Product Passport



Regulation on Environmentally
Responsible Design of Energy
Related Products
(2009/125/EC)
CBK: 5187

Regulation on Environmentally
Responsible Design Requirements
for Sustainable Products

Legislation Transition



**Indirect
References**



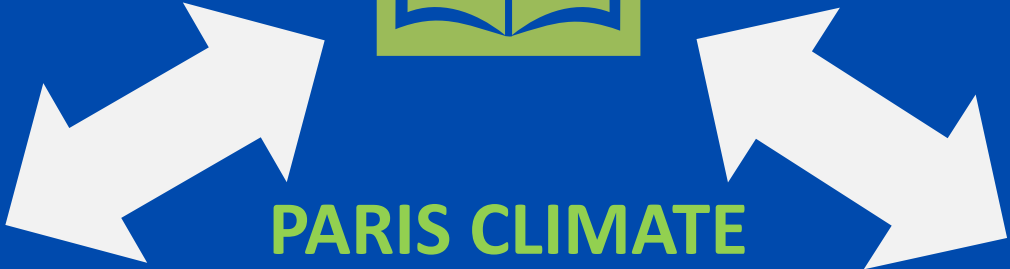
Direct References

**International
Obligations**

Databases

The General Structure of the Legislation

International Obligations



PARIS CLIMATE CONVENTION

TÜRKİYE

2030 National Contribution Statement
41% Emission Reduction - 695 mt CO2
2053 Carbon Neutral Country

EUROPEAN UNION

2030 Contribution Statement
55% Emission Reduction – 310 Mt of CO2
2050 Carbon Neutral

The ESPR supports the 2030 targets in the short term by reducing GHG emissions and resource use and in the long term by introducing carbon neutrality targets.

ESPR is designed to cover 65 % of products that cause emissions and 70 % of products that consume resources.

The General Structure of the Legislation

Indirect References

EU Green Taxonomy

Emission Trading System

Regulation of Carbon Border Adjustment Mechanism

Corporate Sustainability Reporting and Due Dilligence Directive

Waste Shipment Regulation

Regulation on the Prevention of Deforestation

Packaging and Packaging Waste Directive

Extended Producer Responsibility for Products -Sub-Regulations

Protection of Trade Secrets

Objective and Scope



Scope Expansion

Wide product range

The following products are excluded.
Food, feed, medical products, veterinary medical products, living plants, animals and microorganisms, products of human origin, products directly related to the future derivation of plant and animal breeds, vehicles and automobiles



New Requirements

Clarification of existing requirements and identification of additional requirements

Material footprint, life cycle assessment, integrated pollution reduction, recycled content, reduction of plastic use, etc.



Horizontal Scope

Additional product-specific requirements

Prohibition of disposal of unsold products, prohibition of software degradation of product performance, remanufacturing, performance upgrades,



Focus on Product Information

Tagging online databases

Digital product passport, energy labeling, environmental label,

Objective and Scope



Environmental Protection

- Achieving environmental goals
- Achieving Sustainable Development Goals
- Reduction of environmental impacts on a product basis
- Sustainability approach

- Improved product performance and long service life
- Transparent presentation of product information to the end user in decision-making
- Financial gains (energy, water efficiency, right to repair)
- Green public procurement



Customer



- Green energy and raw material supply
- Reduction of material costs
- International protection of the labour force in the supply of raw materials
- Transparent and environmentally sensitive procurement on the basis of sustainability



Supply chain

Main Areas Regulated by the Legislation



Environmentally Sensitive Design Requirements



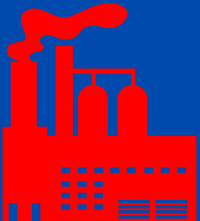
Digital Product Passport



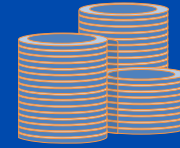
Labels



Prohibition of Destruction of Unsold Products



Obligations of Economic Operators



Incentives



Conformity assessment and Conformity of Products



Market Surveillance and Supervision



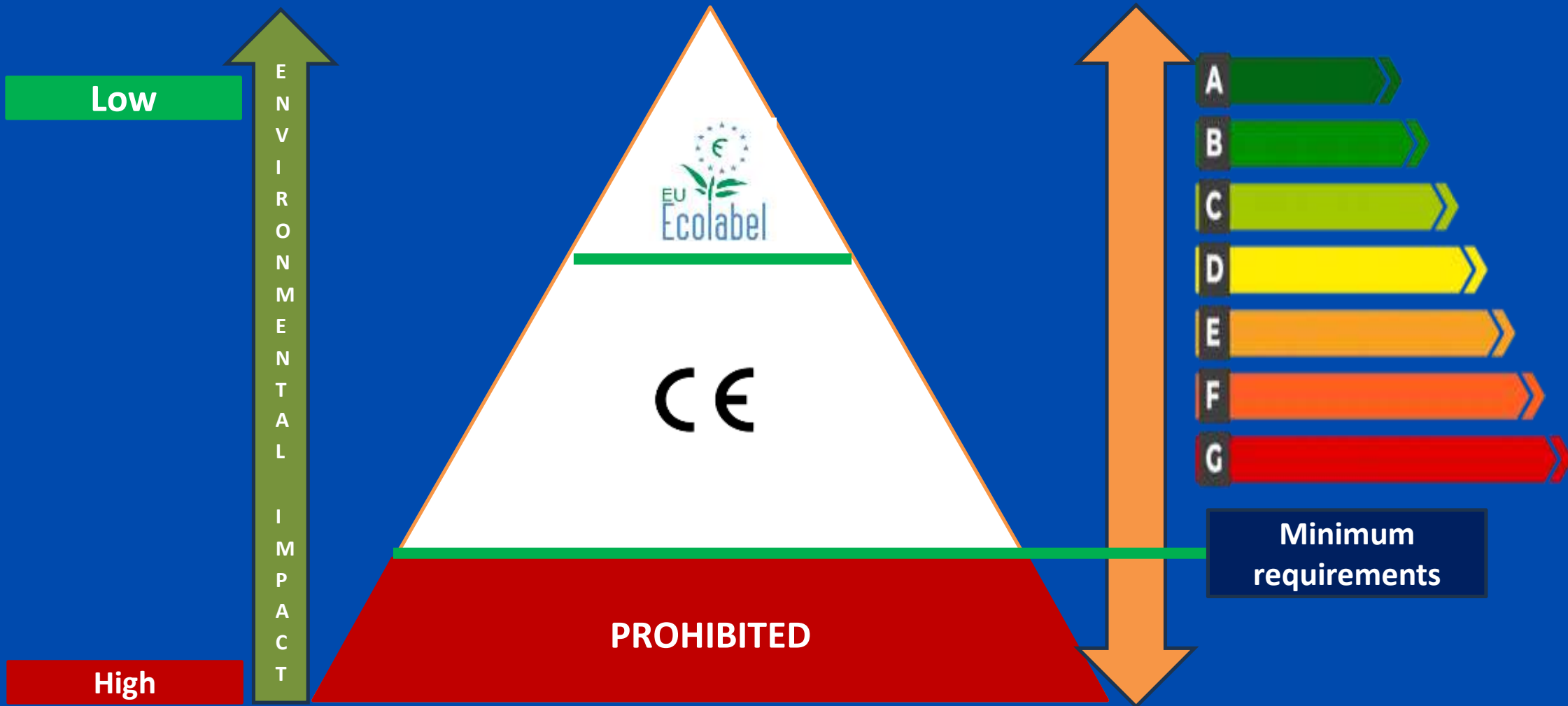
Product Notifications

Environmentally Sensitive Design Requirements

- Durability,
- Reliability,
- Reusability,
- Upgradeability,
- Repairability,
- Possibility of maintenance and renovation,
- The presence of substances of concern,
- Energy use or energy efficiency,
- Resource utilization or resource efficiency,
- Recycled content,
- Possibility of remanufacturing and recycling,
- Possibility of recovery of materials,
- Environmental impacts, including carbon and environmental footprint,
- Expected waste material production.



Labels



- The labelling system aims to ensure that end users prefer environmentally friendly and highly efficient products.
- These objectives are supported by the Energy Labelling Regulation No. 1369/2019/EU issued by Presidential Decree and the product legislation issued under this regulation.
- The «Environmental Label» criteria provided by the Environmental Label Regulation will be part of the environmentally sensitive design criteria.

Prohibition of Destruction of Unsaleable Products

Production

- Resource Efficiency
- Production Planning
- Definition in Sustainability Reporting
- Extended Producer Responsibility
- Duty of Due Diligence



Recycling

- Extended Producer Responsibility
- Recycling/Recovery
- Reflection of Financial and Environmental Aspects in Sustainability Reports.
- Violations and Penalties

- The first application will start in Textile Ready-to-Wear Clothing and Footwear as of 2026.
- Products whose destruction will be prohibited will be announced by the Authorised Institutions.
- The requirements for products whose disposal will be prohibited will be defined in product-specific implementation communiqués.

Economic Operators

Manufacturer

Importer

Distributor

Merchant

E-Commerce Sites

Search Engines

Service Providers

Businesses Involved in the Supply Chain

- The obligations in the Law No. 7223 on Technical Regulations are the same as the obligations in the new regulation.
- Implementation communiqués may define additional obligations on environmental awareness and sustainability based on production, distribution and recycling.



 **Promotion of High Efficiency Class Products**

 **Green public procurement**

Objective

- ✓ Encouraging the production and use of products belonging to the highest efficiency class in Energy Labelling
- ✓ Promoting high efficiency products through public procurement



Conclusion

Ensuring environmental protection through end users with high efficiency class products

*Incentives will be applied on the basis of Energy Labelling Framework Regulation and Environmental Labelling Regulation.

Conformity assessment and Conformity of Products Market Surveillance and Supervision



Economic Operators

Manufacturers, in particular; must carry out the necessary conformity assessment methods for the products they will place on the market.



Conformity Assessment Organizations

Assessment of the product's compliance with the legislation together with testing and inspection services.















Certificated Organisations

Third-party certification of the product's compliance with the legislation by the organisations appointed by the authorised bodies and completion of the conditions before the product is placed on the market



Manufacturers, importers or authorised representatives cannot positively change the environmental performance of products through software and cannot engage in misleading activities.

Final Products

		WATER	AIR	SOIL	BIODIVERSITY	WASTE	CLIMATE CHANGE	ENERGY USE	HUMAN TOXICITY	MATERIAL EFFICIENCY	LIFETIME EXTENSION
Score 43	TEXTILES and FOOTWEAR 	5	2	4	4	5	5	5	3	5	5
Score 30	FURNITURE 	1	3	3	3	4	3	3	2	3	5
Score 30	CERAMICS PRODUCTS 	3	3	3	3	3	4	4	1	3	3
Score 30	TYRES 	3	4	3	3	3	3	3	2	3	3
Score 28	DETERGENTS 	4	2	1	4	3	3	3	2	3	3
Score 26	BED MATTRESSES 	1	3	1	2	5	3	3	2	3	3
Score 24	LUBRICANTS 	2	2	2	2	2	3	3	2	3	3
Score 24	PAINTS 	3	3	2	3	3	2	2	2	3	1
Score 23	COSMETICS 	4	2	1	4	3	2	1	2	3	1
Score 22	TOYS 	1	1	1	1	3	2	2	3	3	5
Score 21	FISHING GEARS 	4	1	1	4	3	2	1	1	3	1
Score 18	ABSORBENT HYGIENE PRODUCTS 	2	1	2	2	4	2	2	1	1	1

Intermediary Goods

	WATER	AIR	SOIL	BIODIVERSITY	WASTE	CLIMATE CHANGE	ENERGY USE	HUMAN TOXICITY
Score 31 IRON & STEEL	5	5	2	2	4	5	5	3
Score 27 NONFERROUS METAL PRODUCTS	3	2	3	2	5	4	5	3
Score 26 ALUMINIUM	1	4	4	3	4	4	4	2
Score 25 CHEMICALS	3	3	3	3	3	4	4	2
Score 23 PLASTICS	3	3	2	2	3	4	4	2
Score 22 PULP & PAPER	3	2	3	3	2	4	4	1
Score 19 GLASS	3	2	2	3	1	3	4	1

Product Notifications



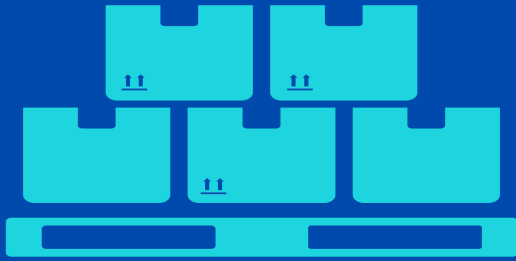
- Resource Efficiency
- Energy and water efficiency
- Carbon and water footprint
- Emission values
- Recovery rules
- Reproduction
- Class upgrade
- ...



- Life Cycle Assessment
- Waste and hazardous materials
- Recycled content
- Packaging and waste packaging
- Microplastic content
- Emission reduction
- ...

- Prohibition of destruction
- Spare parts supply and lead times
- Labeling
- Upgrade via software
- Product information forms
- Digital Product Passport
- ...

Product Notifications



Final Products

- Textile Ready-Made Clothing and Shoes
- Solar Panels
- Ambient Heaters
- Furniture
- Ceramics
- Tires
- Detergents
- Bed Mattresses
- Lubricants
- Paint and Varnish
- Cosmetics
- Toys
- Fishing Gear
- Hygiene products



Intermediary Goods

- Iron and Steel Products
- Aluminium
- Chemicals
- Plastics and Polymers
- Glass
- Paper and pulp
- Glass
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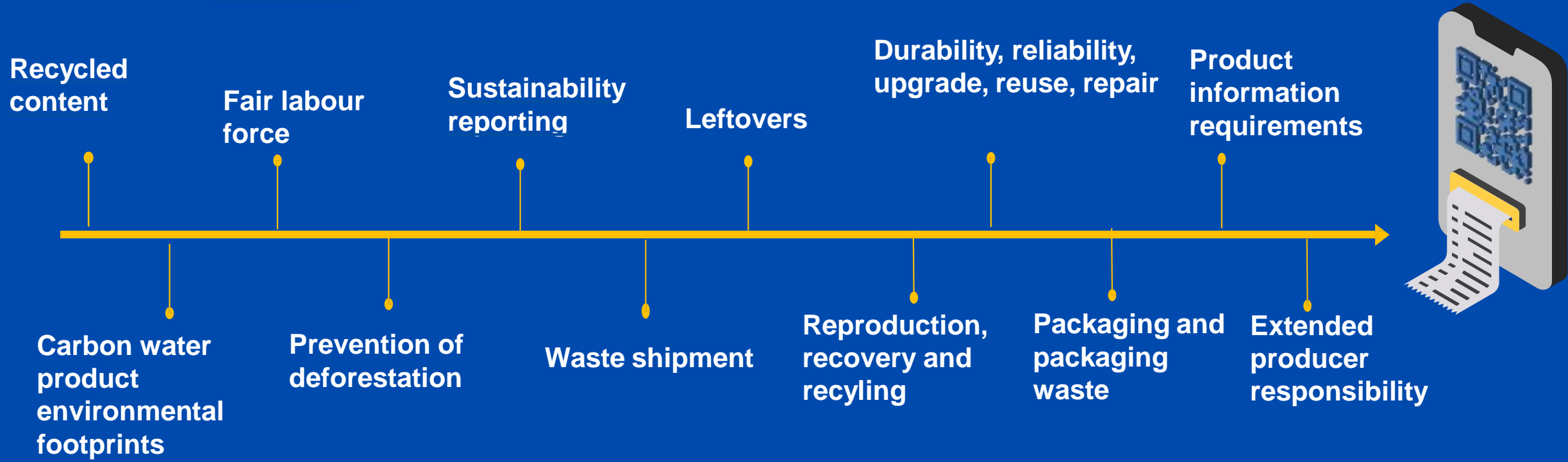


By 2030, implementation communiqués for products will be put into practice.

Digital Product Passport



Digital Product Passport



!! Documents subject to certification as a result of third party surveillance activities will also be included in the DPP.

* DPP contents will be clarified in the implementation communiqués to be published for products until 2030. DPP content of products and product groups may vary.

Digital Product Passport

DPP- System Architecture



DPP- Data

All standards and protocols related to IT architecture

Data Carrier, Unique Product Identifier, Unique Operator Identifier Unique Facility Identifier

Standards

- ISO/IEC 15459 series

- These standards relate to single and unique identification in Information Technology.

DPP Registration and Tracking

- Economic Operators
- Customs Authorities

DPP contents will be determined in the implementation communiqués to be published for the products.

Possible contents for Economic Operators

- Commercial title address of economic operators
- Global Trade Identification Number or Equivalent (Harmonised system codings)
- TARIC Encodings
- Origin encodings
- Authorized Representative
- ...

Potential Definitions for Products

- General Description of The Product
- Recycled Content
- Matter of Concern Substance Content
- Product Environmental Footprint Calculations
- Performance Classes
- Product Technical Parameters
- Product Lifecycle Assessment
- Environmental Label
- ...

*The implementing regulation for the DPP is planned to be published by the EU Commission by the end of 2025.

Digital Product Passport

Section Open to Authorised Institutions

This is the section where Authorised Institutions, Market Surveillance and Inspection, Customs Authorities can access the data.

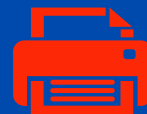
Product information

Technical file contents, requirements defined in product application communiqués, origin, additional information defined in other relevant legislation, certification

Customs Controls, Market Surveillance and Inspection

Instant sharing of problems in the product with the EU authorities, receiving and processing product-related data in other databases

DPP- Data



Section Open to Customers

Informing customers about the product parameters to be provided by economic operators in product application communiqués

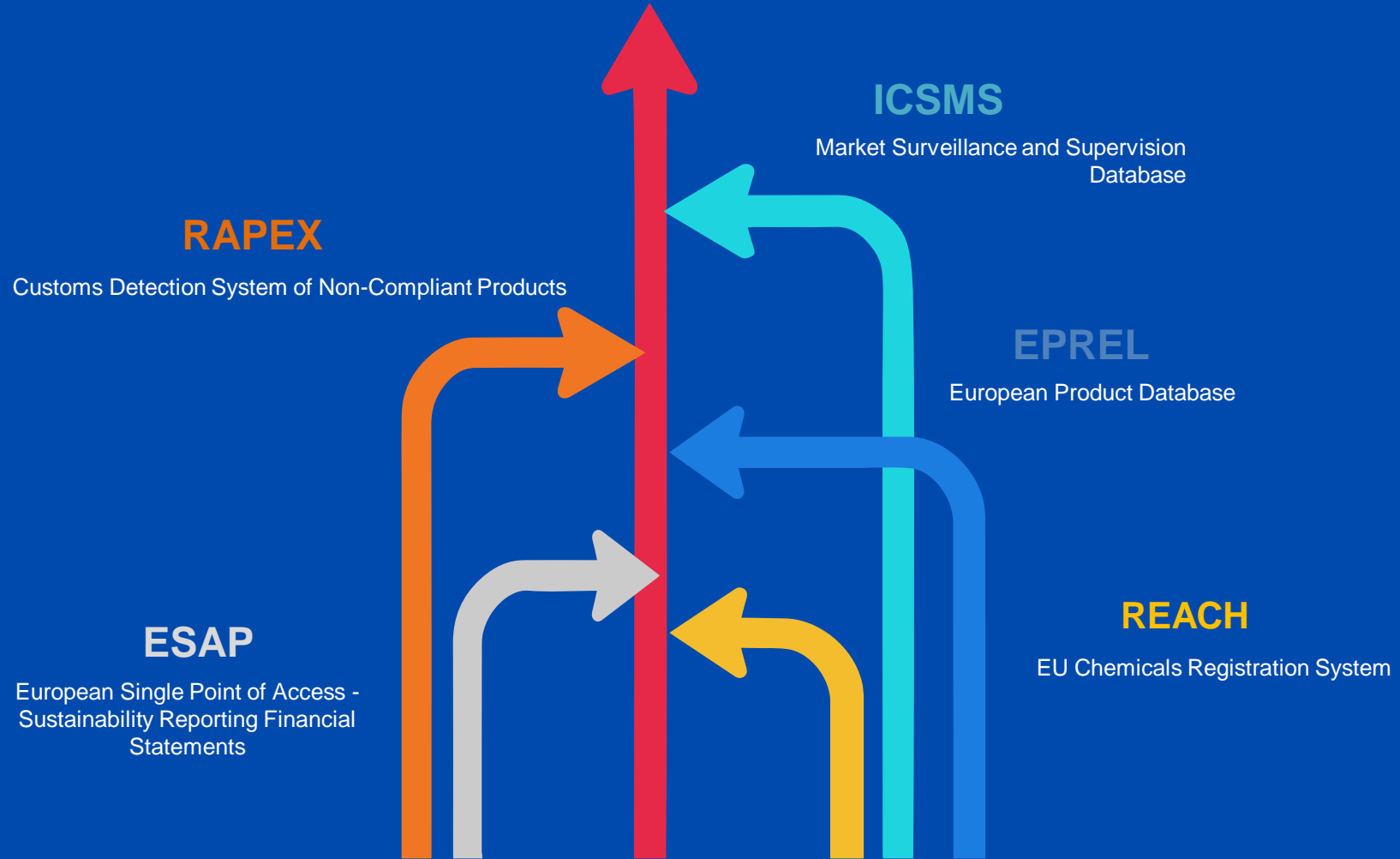
Labels

Energy labelling, Environmental Labelling, Hazardous Chemical Contents

Product information forms

Energy, water efficiency, carbon and water footprint, maintenance, access to after-sales services, warranty

Digital Product Passport





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Thanks for your attention.



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