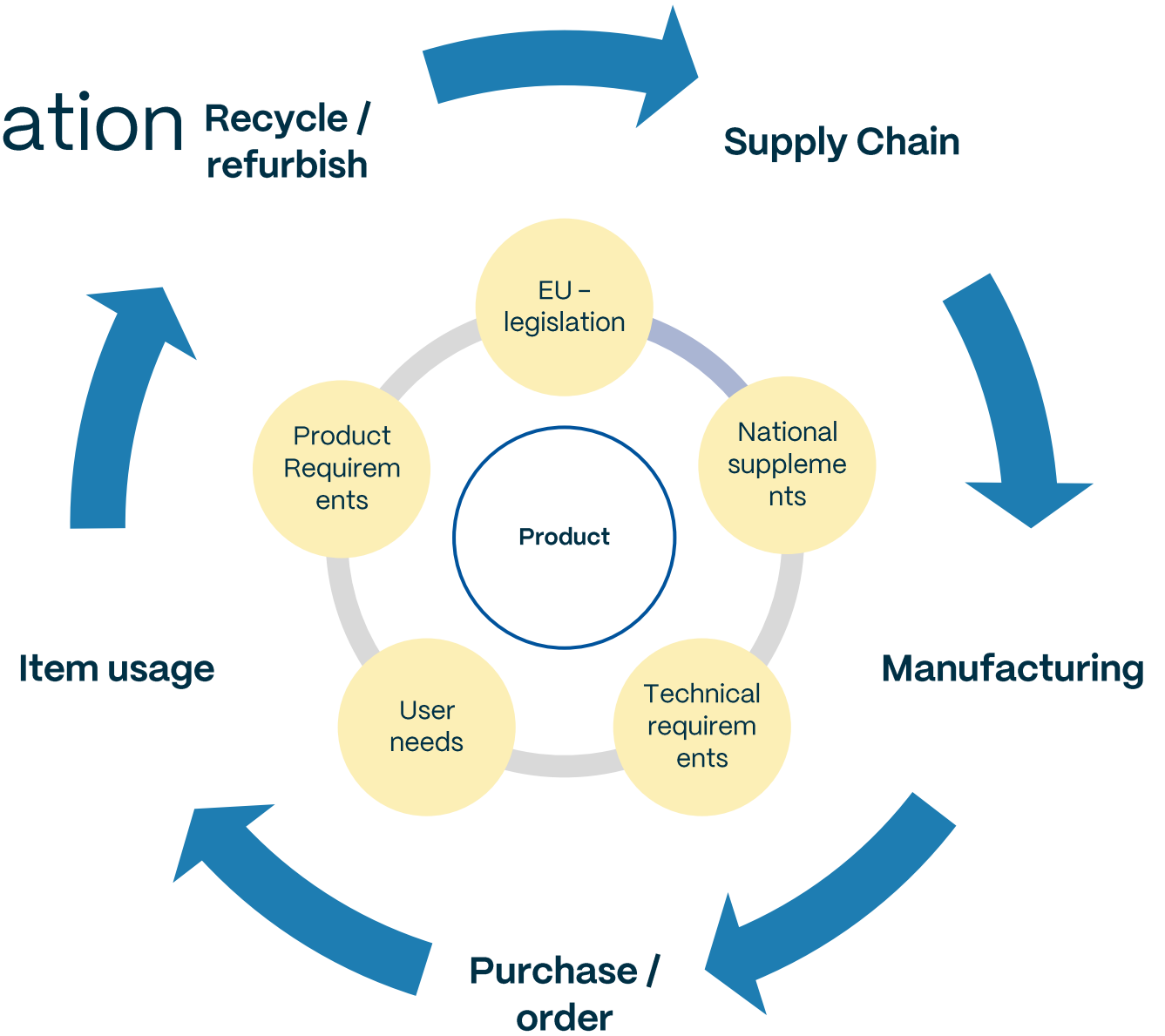# Digital Product Passport

JTC 24 – WG1 "Strategy and advisory group"

Dr. Martin Schreck

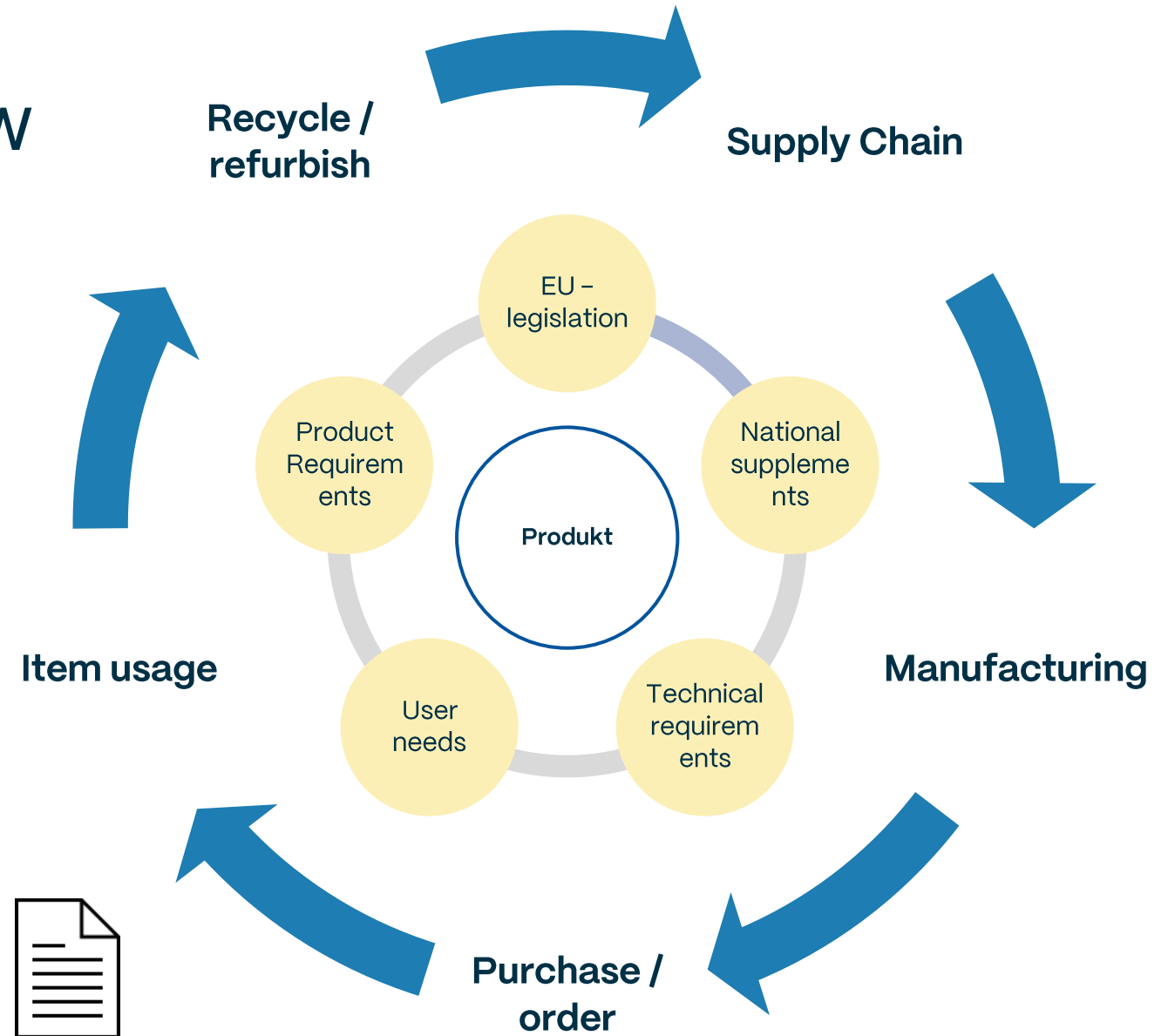Convenor, Specialist director Norwegian Building Authority

Today's flow of information

- Complex and dynamic processes across multiple (product) layers throughout the value chain

- Need for effective interaction between regulatory requirements and market needs

- Strict requirements for documentation and traceability over long periods of time

- Information that is not easily accessible and user–friendly

- Inefficient and streamlined information flow

Recycle / refurbish

Supply Chain

Manufacturing

Item usage

Purchase / order

Product

EU – legislation

National supplements

Technical requirements
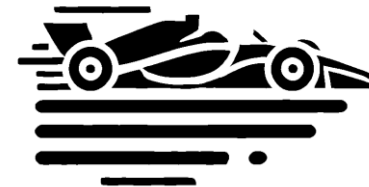
User needs

Product Requirements
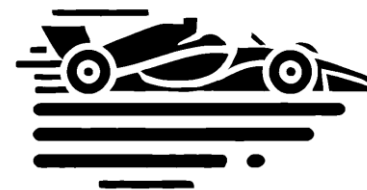
Digital information flow

- Complex and dynamic processes across the entire value chain

- Effective interaction between the authorities and the market

- Requirements for documentation and traceability over long periods of time

- Requirements for easily accessible information and user-friendliness

- Efficient and streamlined information flow

Recycle / refurbish

Supply Chain

Manufacturing

Purchase / order

Item usage

EU – legislation

National supplements

Technical requirements

User needs

Product Requirements

Produkt

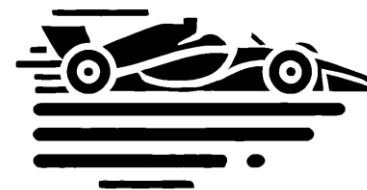# What have these items in common?

Name of presenter / event

They are allowed to participate in street traffic if they follow the rules

JTC24 standardizes the traffic rules for the DPP vehicles, not the vehicles themselves.

!!The economic operator decides which vehicle they want to use!!

DPP–System (structure)

DPP[1] – data content
Content: sector–controlled information and functionality, data management and possibly IT infrastructure

DA[2]

SREQ[3]

ECO Design Reg.

DPP[1] – framework
Content: fixed digital joint functions across the industrial sectors to ensure interoperability across the sectors and actors

[1] Digital produktpass
[2] Delegated act
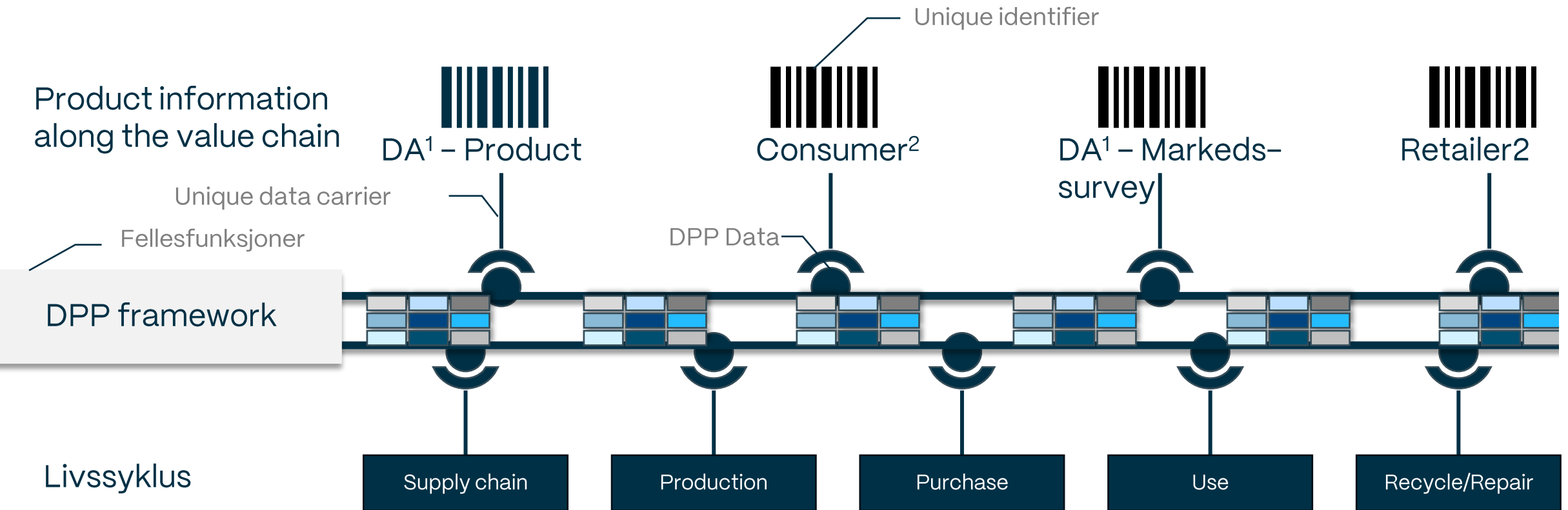[3] EU request of technically binding standard from CEN/CENELEC

Sector–specific information content:

- A delegated act can either require the use of existing standards, or order new ones via CEN and CENELEC.
- Implemented sector–by–sector.
- Takes into account sector–specific requirements for security, information and content

Common system for all sectors:

Unique IDs

Data carriers and links between physical product and digital representation

Management of access rights, information, system security and business confidentiality

Data Authentication, Reliability, Integrity

Interoperability (technical, semantic, organizational)

Data processing, data exchange protocols, and data formats

Data Storage, Archiving, and Data Retention

Automatic interface for management and searchability across the entire DPP lifecycle

DPP – system (Principle of operation)

Product information along the value chain

Unique identifier

DA[1] – Product

Consumer[2]

DA[1] – Markeds–survey

Retailer2

Unique data carrier

Fellesfunksjoner

DPP Data

DPP framework

Livssyklus

| Supply chain | Production | Purchase | Use | Recycle/Repair |

1 – specified in future delegated acts
2 – Rights defined in ESPR

Identified functionality needs

- The DPP system and framework will support about 37 use cases as common functions.

- Common functions in DPP frameworks are facilitated by combining the functionality of eight different modules in the DPP system.

- There is a high degree of dependencies between these modules

- Major interdisciplinary dependencies: