

# The Mandatory Digital Product Passport (DPP)

## CONSUMER & INDUSTRIAL GOODS INDUSTRY

Global industries are entering a new era of mandatory transparency. Products are no longer evaluated solely by price, quality, or brand reputation – regulators, consumers, and investors now expect organizations to **prove the environmental, ethical, and operational history** behind every product they sell. At the center of this transformation is the **Digital Product Passport (DPP)** – a regulatory and technological framework that creates a persistent digital identity for products across their entire lifecycle.

Driven by evolving EU regulations, DPPs are becoming mandatory across textiles and fashion, consumer electronics, batteries and industrial equipment, consumer packaged goods, and automotive and industrial manufacturing. Products are no longer isolated physical items – they are becoming **living digital assets** accompanied by continuously updated lifecycle intelligence covering raw material origins, manufacturing conditions, carbon footprint, reparability, and end-of-life guidance.

5+

Regulated Sectors

Industries facing mandatory DPP compliance by 2026

2026

Compliance Horizon

Year products must carry verifiable digital lifecycle identities

100%

Lifecycle Coverage

From raw materials to recycling and reuse

A new generation of consumers – particularly Generation Alpha – expects radical transparency. Sustainability claims are no longer accepted at face value; they demand a verifiable "life story" accessible instantly through digital channels. For most organizations, this creates a fundamental challenge: traditional supply chains were built to move products efficiently, not to maintain auditable, real-time lifecycle intelligence across fragmented global ecosystems.

Turning products into transparent, intelligent digital ecosystems – Fortis & Peak Consulting & Investment

# The Strategic Challenge

## WHY LEGACY SUPPLY CHAINS FALL SHORT

Most organizations can manufacture and distribute products at scale — but they cannot fully prove or communicate the product's lifecycle story. The gap between operational capability and transparency readiness is widening as regulatory pressure intensifies and consumer expectations evolve. Five critical challenges define this landscape for consumer and industrial goods organizations today.

### Regulatory Pressure

Increasing mandates for Digital Product Passport compliance across the EU and beyond, with non-compliance carrying significant legal and reputational risk.

### Supplier Ecosystem Opacity

Limited visibility into multi-tier supplier networks and raw material origins makes it impossible to substantiate sourcing and sustainability claims.

### Fragmented Lifecycle Data

Product data is scattered across ERP, PLM, MES, and supply chain systems — often siloed by geography, function, or business unit.

### ESG Validation Gaps

Organizations struggle to validate and report ESG and sustainability claims with the rigor and auditability that regulators and investors now demand.

### End-of-Life Blindspots

No infrastructure exists to track or support repairability, reuse, and recycling — leaving circular economy commitments unverifiable and unactionable.



A global consumer goods manufacturer recognized that compliance alone was not the strategic objective. The larger opportunity was transforming transparency into trust, operational intelligence, and competitive differentiation.

# Transformation Powered by 3D&S + FortisIntel

## THE FOUR-PHASE EXECUTION FRAMEWORK

Fortis & Peak's proprietary **3D&S methodology** — powered by the **FortisIntel intelligence engine** — delivers end-to-end Digital Product Passport transformation across four disciplined phases. Each phase builds on the last, moving organizations from compliance gap identification through to a continuously optimized transparency ecosystem.

1

### DEFINE

Map lifecycle intelligence gaps and compliance risks across sourcing, manufacturing, logistics, and retail. Evaluate ERP, PLM, and MES interoperability.

2

### DESIGN

Architect the DPP ecosystem — persistent digital product identities, carbon footprint frameworks, QR-enabled consumer access, and repair/recycling integration.

3

### DELIVER

Deploy DPP infrastructure across product categories. Activate consumer-facing lifecycle access, real-time compliance monitoring, and automated regulatory reporting.

4

### SUSTAIN

Embed continuous lifecycle monitoring, dynamic sourcing optimization, ESG capability building, and circular product recovery programs into enterprise operations.

## FortisIntel — The Intelligence Engine

Maps end-to-end product lifecycle ecosystems, enables DPP integration and traceability, tracks carbon footprint and circularity metrics, and provides real-time compliance intelligence across all product categories.

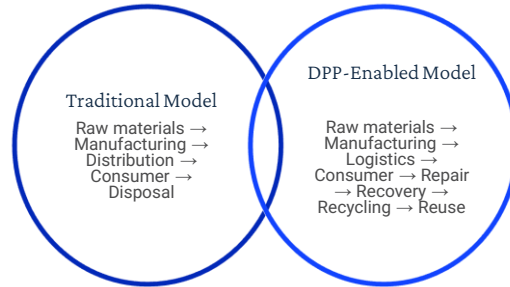
## 3D&S — The Execution Framework

A structured transformation methodology that moves organizations from fragmented product information to a unified lifecycle intelligence ecosystem — with measurable outcomes at every phase and scalable infrastructure for long-term compliance and growth.

# Transformation Architecture & Measurable Impact

## FROM TRADITIONAL MODEL TO DPP-ENABLED LIFECYCLE INTELLIGENCE

The shift from a traditional product model to a DPP-enabled lifecycle model is not merely a compliance upgrade – it is a fundamental reimagining of how products are tracked, verified, and optimized from raw material to recovery. The architecture below illustrates the intelligence and execution layers that power this transformation.



The DPP-enabled model extends the product lifecycle far beyond the point of sale, creating a continuous loop of intelligence, recovery, and reuse that supports both regulatory compliance and circular economy performance.



### Regulatory Readiness

Improved compliance posture for Digital Product Passport mandates across all regulated product categories and geographies.



### ESG & Carbon Verification

Verified sustainability and carbon reporting with auditable data trails that satisfy investor, regulatory, and consumer scrutiny.



### Circular Economy Performance

Stronger recycling compliance and circular product recovery, with repair and reuse instructions embedded directly into product records.



### Supplier Traceability

Increased supplier and material traceability across multi-tier ecosystems, reducing sourcing opacity and supply chain compliance risk.



**Outcome: Real-time, verifiable product intelligence embedded into enterprise operations – supporting compliance, consumer trust, and circular growth simultaneously.**

# Strategic Positioning & Signature Insight

FORTIS & PEAK CONSULTING & INVESTMENT

In the future economy, products will not only be judged by what they do – but by the transparency, intelligence, and accountability embedded within their lifecycle story.

Leading organizations are now transforming their supply chains into **intelligent transparency ecosystems**, embedding Digital Product Passports into the core of product strategy, operations, and customer engagement. The competitive advantage belongs to those who move beyond compliance as a minimum standard and embrace lifecycle intelligence as a strategic differentiator – building consumer trust, reducing ESG risk, and unlocking circular economy value simultaneously.

## FortisIntel Creator

Lifecycle intelligence and digital traceability platforms that power end-to-end product transparency at enterprise scale.

## 3D&S Owner

An execution-driven transformation methodology that moves organizations from fragmented data to unified lifecycle intelligence.

## Ecosystem Architect

A firm that transforms supply chains into transparent, intelligent ecosystems – from raw material to recovery and reuse.

## DPP Leader

A recognized leader in Digital Product Passport and lifecycle intelligence transformation across consumer and industrial sectors.

Fortis & Peak Consulting & Investment partners with global consumer and industrial goods organizations to transform products into intelligent, transparent, and future-ready digital ecosystems – delivering measurable compliance, trust, and circular growth outcomes through the combined power of FortisIntel and the 3D&S framework.

Get in Touch

[www.fortisandpeak.com](http://www.fortisandpeak.com)  
[info@fortisandpeak.com](mailto:info@fortisandpeak.com)



Transforming Products Into

Transparent · Intelligent · Future-Ready Digital Ecosystems