

Digital Product Passport Infrastructure

EU ESPR readiness for lithium-ion battery systems across the data centre portfolio.
EU Batteries Regulation (EUBR) (2023/1542)

01

The context

Why DPP is now a board-level risk for Schneider Electric.



The GDPR moment for supply chains is here.

Market bans. Product recalls. GDPR-style enforcement. The EU has made supply chain transparency a board-level risk.

4%

of global annual turnover

Maximum fine for EPR / Digital Product Passport non-compliance — mirrored on the GDPR enforcement architecture.

2027

EU DPP mandate live for batteries

Battery passports mandatory from **18th February 2027**. Textiles, electronics, construction follow in sequence through 2030.



You're likely more exposed than you think.

The ESPR Digital Product Passport requirement isn't a future problem. The regulatory framework is already in force. Battery passports go live in 2027. Textiles, electronics and construction follow in sequence.

For most enterprises with global supply chains — Schneider Electric included — current traceability infrastructure was not built for this.

Companies that treat this as a one-time IT project repeat that cost for every category. Those that build the right infrastructure once stay audit-ready across all of them.



Fragmented data

Product data lives across disconnected ERP, PLM and supplier systems.



Manual reporting

Cannot meet the immutability and auditability standards regulators require.



Reporting ≠ infrastructure

Existing compliance tools address reports, not the underlying data layer.



Per-category rebuild

Each new product category triggers a fresh implementation cycle.

02

The solution

One integration. Audit-ready across every category. Built for ESPR.

THE PLATFORM

Compliance-grade Digital Product Passport infrastructure.

LW3 makes product data **immutable, auditable, and regulator-ready** — across the entire product portfolio, from a single integration layer.

Built on Algorand blockchain infrastructure. Designed for EU ESPR. Deployable by category, scalable across the full range.

WHAT THIS MEANS IN PRACTICE



One integration

to existing data sources — ERP, PLM, supplier feeds.



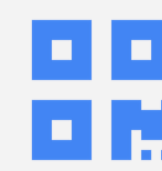
Automated DPP

generation per product or batch, mapped to ESPR schema.



Immutable trail

that satisfies regulatory inspection on demand.



Consumer & regulator

access via QR code or API — zero friction at point of need.

From your existing data to a regulator-ready passport.

01



Connect

Connect existing product data — ERP, PLM, supplier feeds. LW3 maps and normalises to the ESPR schema.

02



Generate

LW3 generates a compliant Digital Product Passport per product or batch. Immutable record created on Algorand.

03



Publish

Passport published to the EU registry. QR code and API endpoint ready for consumer, retailer and regulator access.

The Algorand infrastructure provides cryptographic proof of data integrity — meaning regulators don't have to take your word for it. The record speaks for itself.

Evidence it works.

BUILT ON

Algorand

A Layer-1 blockchain processing 6,000+ transactions per second with a carbon-negative footprint.

6,000+

transactions / sec

99.9%

uptime SLA

C-

carbon-negative

Used by the IMF, the Italian government and global financial institutions for high-integrity data applications.

REGULATORY ALIGNMENT

✓ Full ESPR / DPP schema compliance

Aligned to EU Regulation 2024/1781 from day one.

✓ EU EBSI-aligned architecture

European Blockchain Services Infrastructure standards.

✓ GDPR-compatible data handling

Personal data separation by design.



PILOT RESULTS

Time to first passport, categories covered, integration time, audit outcomes — anonymised pilot data available on request.

The cost of LW3 is not a software decision.
It's a risk management decision.

COST OF NON-COMPLIANCE

If you do nothing

- Up to 4% of global annual turnover in fines
- Market bans on non-compliant products
- Product recalls
- Reputational damage in EU markets
- Repeated cost per product category

LW3 INVESTMENT

If you act now

- One integration to existing data sources
- Scalable across all product categories
- Audit-ready from day one of enforcement
- No compliance rebuild per category
- Pilot pricing & engagement model on request

What we've already de-risked for you.

The questions procurement, IT and legal will raise — and the answers, on the record.



Vendor lock-in

Your product data remains yours. LW3 is an infrastructure layer. Full data portability on request.



Data sovereignty

EU data residency available. GDPR-compliant architecture with personal data separation by design.



Blockchain reliability

Algorand: 99.9%+ uptime, 6,000+ TPS, carbon-negative. Chosen by IMF and sovereign governments.



Startup risk

Pilot structure with defined scope, deliverable and exit clause. Prove value before full rollout.



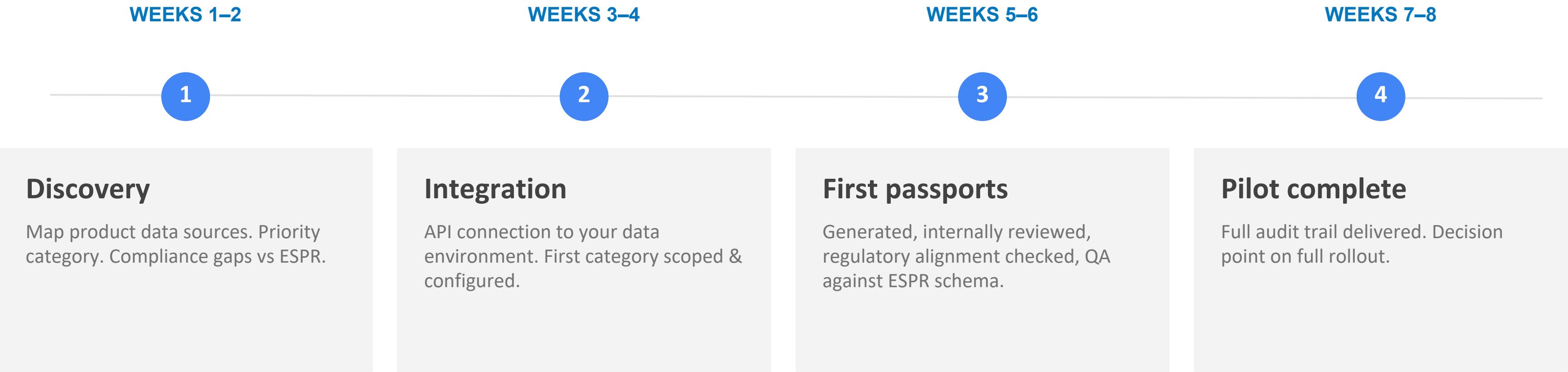
Integration complexity

API-first. Works with SAP, Oracle and bespoke ERP/PLM environments. Scoped in discovery.

Two horizons — separated deliberately.

A contained pilot with one category and a real proof point. Then full portfolio coverage. You evaluate before you commit.

EXAMPLE PILOT STRUCTURE



Full portfolio coverage typically follows over the subsequent three to four months — depending on the number of categories and the data environment.

The next step is a structured pilot.

One product category of your choice. Clear deliverable. Defined scope. Decision point before any rollout commitment.

AT THE END OF THE PILOT YOU WILL HAVE

- ✓ A fully compliant Digital Product Passport for your pilot category
- ✓ A complete audit trail ready for regulatory inspection
- ✓ A clear integration map for remaining product categories
- ✓ An evidence-based decision on full rollout — with no obligation to proceed

OUR COMMITMENT

If the pilot doesn't deliver a regulator-ready passport for your chosen category, you don't pay for rollout.

PROPOSED NEXT STEPS

- 01

This week

Confirm pilot scope and priority product category.
- 02

Next week

Discovery call with your IT and compliance leads.
- 03

Within 30 days

Pilot agreement signed. Integration underway.

“

LW3

You aren't buying just a compliance stack. You are buying a *reduction in uncertainty* and *access to new circular* business models.

That's why we offer a contained pilot — something real to evaluate, before any commitment to full rollout.

Building net-zero digital infrastructure.

LW3 is a deep-tech company building the Digital Product Passport and sustainability-intelligence platform for hard-to-abate sectors — energy, mobility, manufacturing, aviation. Built on post-quantum-secure blockchain, IoT, AI and digital-twin technologies.

RECOGNITION

Dec 2023	Winner — Algorand Foundation Global Impact Pitch (US)
Sep 2024	Winner — India–EU EV Battery Tech, Govt of India & EU R&I
Feb 2025	Top 3 globally — Cardano Venture Hub, Switzerland
Nov 2025	Selected — Forbes DGEMS S200 2025 Cohort

Berlin · Hyderabad · Guwahati

Thank you.

Book your Demo call today!



CONTACT

Debrupa Sarkar

Founder's Office, LW3 Private Limited

PHONE	+91 9629187298
EMAIL	debrupa@logisticsw3.com
WEB	www.logisticsw3.com
OFFICES	Berlin · Hyderabad · Guwahati