DIGITAL PRODUCT PASSPORT
FOR BATTERIES

EU Battery Derivative 2024

WHAT IS IT?

A Digital Product Passport (DPP) is a global reporting framework to govern rules around measurement, auditing, and reporting of ESG parameters across the battery value chain.

From 1st February 2027, all EV and industrial batteries on the EU market will require a unique battery passport to be identified with a QR code.

Open standard
EU Ecodesign regulations provides strict Technical requirements for DPP

Free Access
Consumers should have free access to information in the DPP
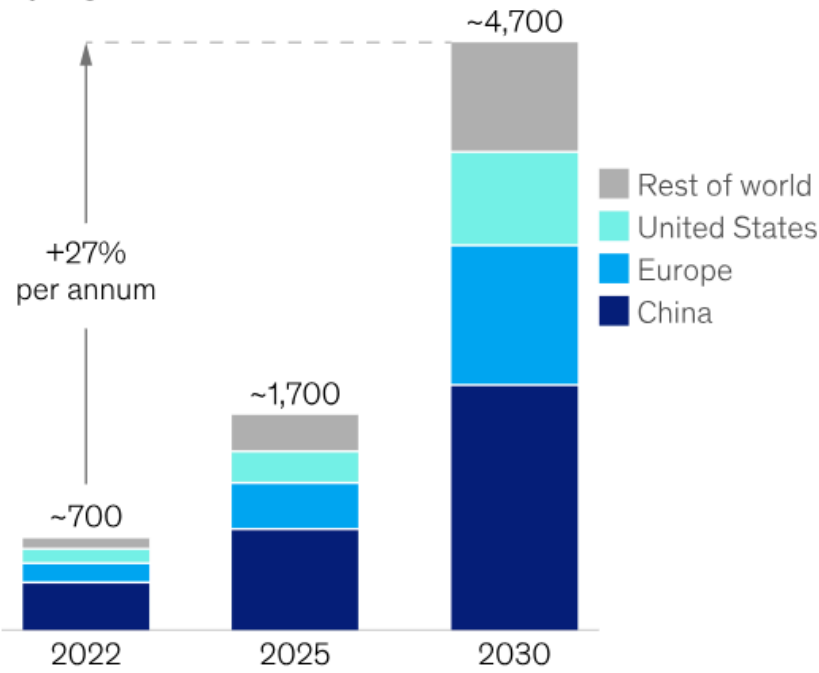
Globally Transferable
DPP should be transferable and extendable along the value chain

Interoperable with other DPP solutions

Global Li-ion battery cell demand, GWh, Base case

By region

~4,700

+27% per annum

~1,700

~700

Rest of world
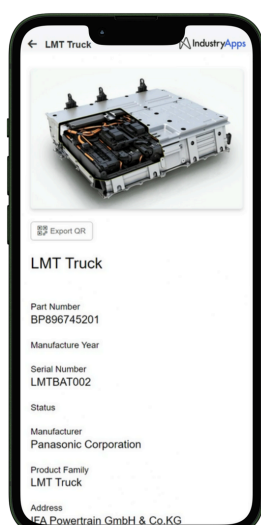United States
Europe
China

2022   2025   2030

¹Including passenger cars, commercial vehicles, two-to-three wheelers, off-highw
Source: McKinsey Battery Insights Demand Model

WHO ALL ARE IMPACTED?

- All OEMs + Tier1 / Tier2 Suppliers
- EV Battery Manufacturers
- Industrial Battery Manufacturers

DPP: EV Battery

IndustryApps
DPP as a service

AAS

DPP 4.0

Loading...

THE CHALLENGES

The implementation of Digital Product Passports (DPP) necessitates a high level of digital maturity across the entire horizontal value chain. Currently, only a limited number of battery manufacturers possess the capability to meet these demanding requirements.

1

COMPLEX DATA COLLECTION

DPP requires granular data collection during manufacturing- Very few battery manufacturers have this level of digital traceability

2

EXTENTABILITY

The Digital Product Passport (DPP) is more than a static data sharing portal; it should be transferable and extendable, enabling every member along the value chain to augment the DPP with additional information. This introduces significant complexity in building and managing DPP platforms
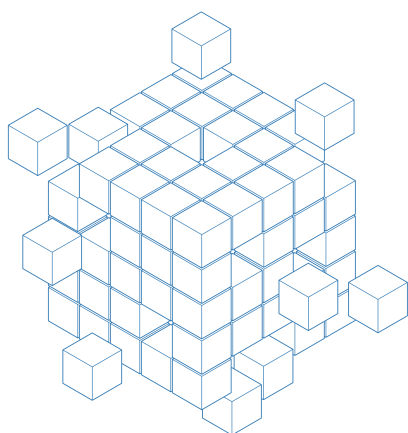
3

TECHNICAL SKILL SHORTAGE

Most of todays battery industry is based in developing countries, who would face skill shortage in managing a comprehensive IT platform
Maybe better: Due to the shortage of specialists, it is getting more and more diffcult to organize a powerful and reliable supplychain.

4

NEED FOR SOPHESTICATION

The EV industry is characterized by constant innovation and high dynamism. The necessity for individual Digital Product Passports (DPP) for each product, encompassing a wide range of data including components, recycling, and reuse information, poses a significant challenge in terms of data storage and processing. This underscores the need for a comprehensive platform approach rather than relying on individual point solutions.

5

BE ONE OF THE FIRST

Achieving the demands of DPP would require extensive global programs- The time line of 2027 requires actions to be initiated now to ensure minimal disruption.
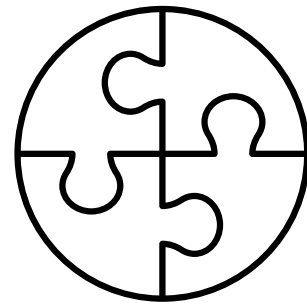
Steps for compliant Battery DPP

PLUG AND PLAY APPROACH FOR DPP
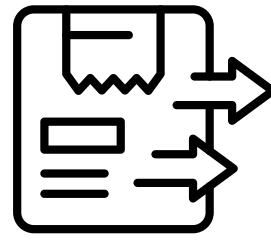
STEP 01
CONSOLIDATE YOUR DATA

The Digital Product Passport (DPP) in Battery requires a comprehensive list of data elements across your value chain. Initiate the process by digitally collecting this data to meet regulatory requirements

STEP 02
Integrate your Suppliers

Many of the data elements required for the Digital Product Passport (DPP) originate from suppliers. Adopt a Digital Ecosystem approach that empowers them to efficiently transfer their component's DPP

STEP 03
Publish your DPP

Setup a DPP platform to consolidate data during production and publish them as part of your product Labelling,

STEP 04
Define Customer Services

Enhance your DPP beyond data sharing with Add-on services for Ordering, Recycling or reusing.

Learn more at:

WHY INDUSTRYAPPS

Mission

IndustryApps solves the whole data story and brings a Plug and Play platform strategy for achieving this complex digital transformation demand

A FLEXIBLE /COST OPTIMAL APPRAOCH FOR DPP
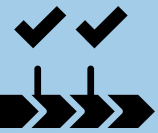
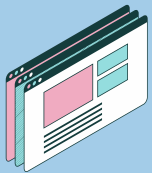- OPEN / DYNAMIC DATA MODEL
- SEMANTICS IN 15 GLOBAL LANGUAGES
- EDGE/CLOUD/HYBRID
- ADD SERVICES TO DPP INTEGRATE AI FOR NEW CAPABILITIES
- ONBOARD SUPPLIERS
- CHOOSE FROM A SUITE OF TEMPLATES OR BUILD YOUR OWN FOR THE BRAND

WHAT IS THE BUSINESS MODEL?

DPP AS A SERVICE IS A FULLY MANAGED PRIVATE DATASPACE FOR EACH COMPANY. YOU CAN PILOT YOUR 10 PRODUCTS FOR FREE - AND THEN SUBSCRIBE THE SOLUTION AT A MONTHLY VOLUME BASED APPROACH

IndustryApps
Appstore for Industry 4.0

Publish your Digital Product Passport:
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www.industryapps.net