

Digital Battery Passport: Pilot Experience from Argentina

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Advancing and Scaling-up Solutions to Reduce Pollution and Exposure from Used Lead-Acid Batteries
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14 BASEL CONVENTION REGIONAL AND COORDINATING CENTRES

They assist the regions and subregions of UNEP: Latin America and the Caribbean (GRULAC); Africa; Asia and the Pacific; Eastern Europe; Western Europe.



- **They provide training and technology transfer in the management of hazardous and other wastes, as well as in the prevention and minimization of their generation.**
- They are autonomous institutions operating under the authority of the Conference of the Parties (COPs), the decision-making body of the Convention composed of all Parties to the Convention.
- They have been established within intergovernmental institutions or national institutions that possess the relevant experience and capacity to carry out the task of providing technical assistance and capacity-building at the regional level.
- They operate under a framework agreement between the host government or institution and the Basel Convention Secretariat on behalf of the Conference of the Parties.

TRANSFERENCIA DE TECNOLOGÍA Y ASISTENCIA EN CAPACITACIÓN EN SUDAMÉRICA 10 PAÍSES DE AMÉRICA LATINA

The Basel Regional Centre for South America for Training and Technology Transfer (CRBAS, BCRC Argentina) on hazardous and other wastes has been located at the National Institute of Industrial Technology (INTI) since 1999.

It serves as a key reference for the environmentally sound management of waste, technology transfer, and legislative assistance in the South American region, providing training and strengthening national capacities on the international agenda of chemicals and waste in the region's productive sectors.

Established under Article 14 of the Basel Convention.



EU Battery Regulation 2026: Current Status

- EU Batteries Regulation (EU 2023/1542) now in force
- Aligned with European Green Deal (EGD) 2050 targets
- Supports European Climate Law (EUCL) neutrality goals
- Key 2026 compliance obligations are now active

Scope and 2026 Regulatory Milestones

- Covers Electric Vehicle (EV), Light Means of Transport (LMT), Industrial (>2 kWh/≤2 kWh), Portable, and Starting, Lighting, Ignition (SLI) batteries
- Carbon Footprint (CFP) declaration mandatory from 18 Feb 2026
- Supply-chain due diligence for Cobalt (Co), Lithium (Li), Natural Graphite, and Nickel (Ni) from 18 Aug 2026
- European Union Central Digital Product Passport (EU DPP) Registry live 19 July 2026

2027 Deadlines and Recycled Content Targets

- Battery Passport (Battery Digital Product Passport) mandatory for Electric Vehicle (EV), Light Means of Transport (LMT), and Industrial batteries >2 kWh (18 Feb 2027)
- Battery due diligence obligations effective 18 Aug 2027
- 2031 recycled content thresholds: Cobalt (Co) 16%, Lead (Pb) 85%, Lithium (Li) 6%, Nickel (Ni) 6%
- 2036 recycled content thresholds: Cobalt (Co) 26%, Lead (Pb) 85%, Lithium (Li) 12%, Nickel (Ni) 15%
Electric Vehicle (EV) battery Carbon Footprint (CFP) delegated act pending late 2026

Real-World Implementation and Pilot Projects

- The Battery Pass: consortium-led guidance and BMW i3/i4 pilots
- Volvo/Northvolt/Contemporary Amperex Technology Co., Limited (CATL): cobalt traceability from mine to pack
- Catena-X Automotive Network: operational Digital Product Passport (DPP) data chain using Electronic Identification, Authentication and Trust Services (eIDAS) and Gaia-X
- Circular Interoperability of Resource Passports (CIRPASS-2): EU-funded interoperability testing across sectors
- Commercial platforms: Viboo, TWAICE, and passport-ready gigafactories
- Concept originated from Global Battery Alliance (GBA) / United Nations Environment Programme (UNEP)

Digital Product Information System (DPIS) – Digital Product Passport (DPP) for Used Lead-Acid Batteries (ULABs) in Uruguay

Implemented by:

Basel Convention Regional Centre for South America (BCRC Argentina / INTI-CRBAS), in coordination with the Basel Convention framework and UNEP-related initiatives.

Country: Uruguay

Objective:

To design and implement a Digital Product Information System (DPIS) based on a Digital Product Passport (DPP) approach to improve the traceability and environmentally sound management of used lead-acid batteries (ULABs), supporting circular economy strategies.

Digital Product Information System (DPIS) – Digital Product Passport (DPP) for Used Lead-Acid Batteries (ULABs) in Uruguay

Main activities and expected outcomes

Activities:

- Assessment of the current regulatory framework and existing information flows related to ULAB management.
- Identification of key stakeholders involved throughout the battery lifecycle.
- Definition of the information requirements and data structure for the Digital Product Passport.
- Development of a traceability approach linking battery information with collection, transport and treatment stages.
- Design and implementation of a pilot system, including evaluation of interoperability and potential replication.

Expected outcomes:

- Improved availability of reliable information throughout the battery lifecycle.
- Enhanced traceability of used lead-acid batteries.
- Support for Extended Producer Responsibility (EPR) schemes and environmentally sound management.
- A replicable approach for other countries in the region.

Digitalization for Circular Economy (D4CE)



The D4CE initiative promotes the use of digital technologies to enable circular economy models through improved information exchange, transparency and collaboration.

Key objectives:

- Advance the development of Digital Product Information Systems (DPIS).
- Support interoperability and data exchange across value chains.
- Enable access to reliable product information throughout the lifecycle.
- Facilitate the transition from linear to circular economic models.

Relevance for DPP implementation:

D4CE provides a global perspective on how digital infrastructures can support product traceability, resource efficiency and circularity across different sectors.



iThank you!

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