Now

14. LOOP-E

LOOP-E

LOOP-E is a CIRCULOOS Experiment for Demonstration led by Simtera and TDC, piloted with ROLD (component manufacturer) and BEKO Europe (appliance assembler) - building a real-time Digital Product Passport connecting ROLD’s microswitch to BEKO's ovens.



LOOP-E

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Funded by the European Union

This project has received funding from the European Union’s “Horizon Europe” programme under grant agreement 101092295

Challenge

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- Production data fragmented across disconnected shop-floor systems – not DPP-ready
- No way for assemblers to aggregate trustworthy data across suppliers into one product-level passport
- EU deadlines approaching: mandatory Battery DPP from Feb 2027, ESPR rollout 2027-2030

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Value proposition and Impact

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- A new offering on Simtera’s FabMetrics Solution: low-code AIoT platform capturing verified production data at the shop floor
- TDC's DPP Orchestration Module: aggregates multi-supplier data into one product-level DPP, published via NGSI-LD to RAMP
- Validated end-to-end in the ROLD-BEKO pilot; GRETA LCA already returns real CO_2/GWP scores per operation
- Built to measure and reduce environmental impact across the value chain - not just report it after the fact

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Business case

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- Simtera LOOP-E Driven Offering
  - Gives component manufacturers a live, trustworthy record of every unit produced - replacing manual, disconnected shop-floor tracking.
  - ~€691M TAM, €3.39M cumulative revenue over 5 years, EBITDA-positive from year one.
- TDC LOOP-E Driven Solution
  - Gives assemblers one verified passport per product, built from every supplier's data and ready for EU compliance deadlines.
  - ~€13.75–16.5M TAM, €3.51M cumulative revenue over 5 years (24-client trajectory by 2031), EBITDA-positive from 2030.
- Combined ~€6.9M 5-year revenue; both platforms being registered as exploitable results in RAMP.

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