Lasers 4MaaS

@ BrightCon

20.-25.9.2026
Aalborg (DK) / Online

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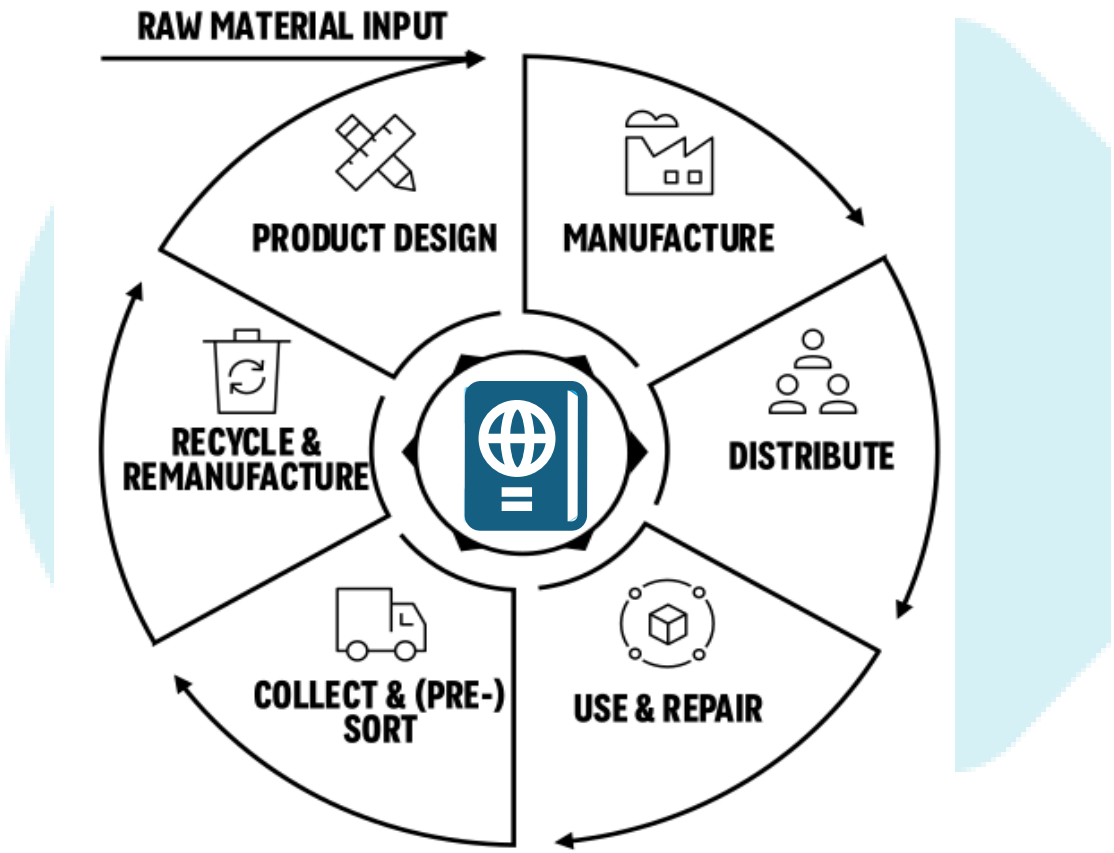
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Digital Product Passport compiler with LCA integration

Sander van Nielen, Franco Donati, Marco Cinelli – CML, Leiden University

EU Digital Product Passports (DPPs)

EU Ecodesign for Sustainable Products Regulation (ESPR)



Non-exhaustive overview of sectors engaged in DPPs and their legislative DPP coverage

Sector[1]	DPP covered by ESPR & delegated acts	DPP covered by sector specific regulation
Aluminum	✓	×
Aviation	×	×
Batteries	×	✓
Cleaning products	✓	×
Construction	×	✓
Energy related	✓	×
Furniture	✓	×
High tech	×	×
Iron & Steel	✓	×
Maritime	×	×
Mattresses	✓	×
Textile/Apparel	✓	×
Toys	×	✓

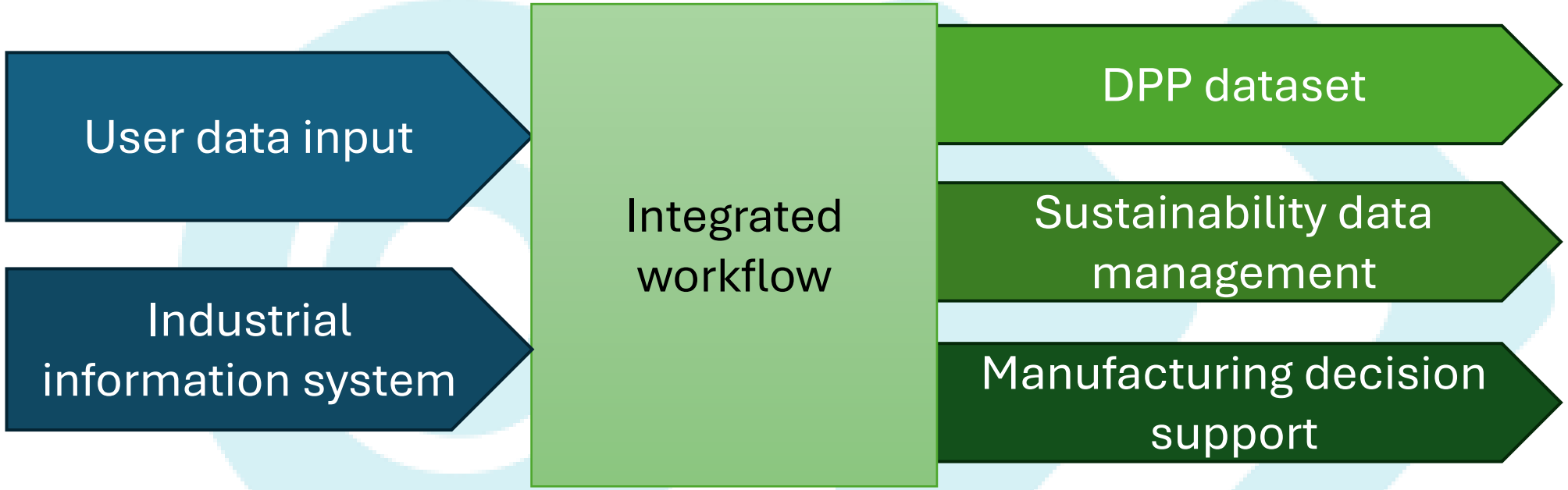
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L4M multifunctional sustainability tool

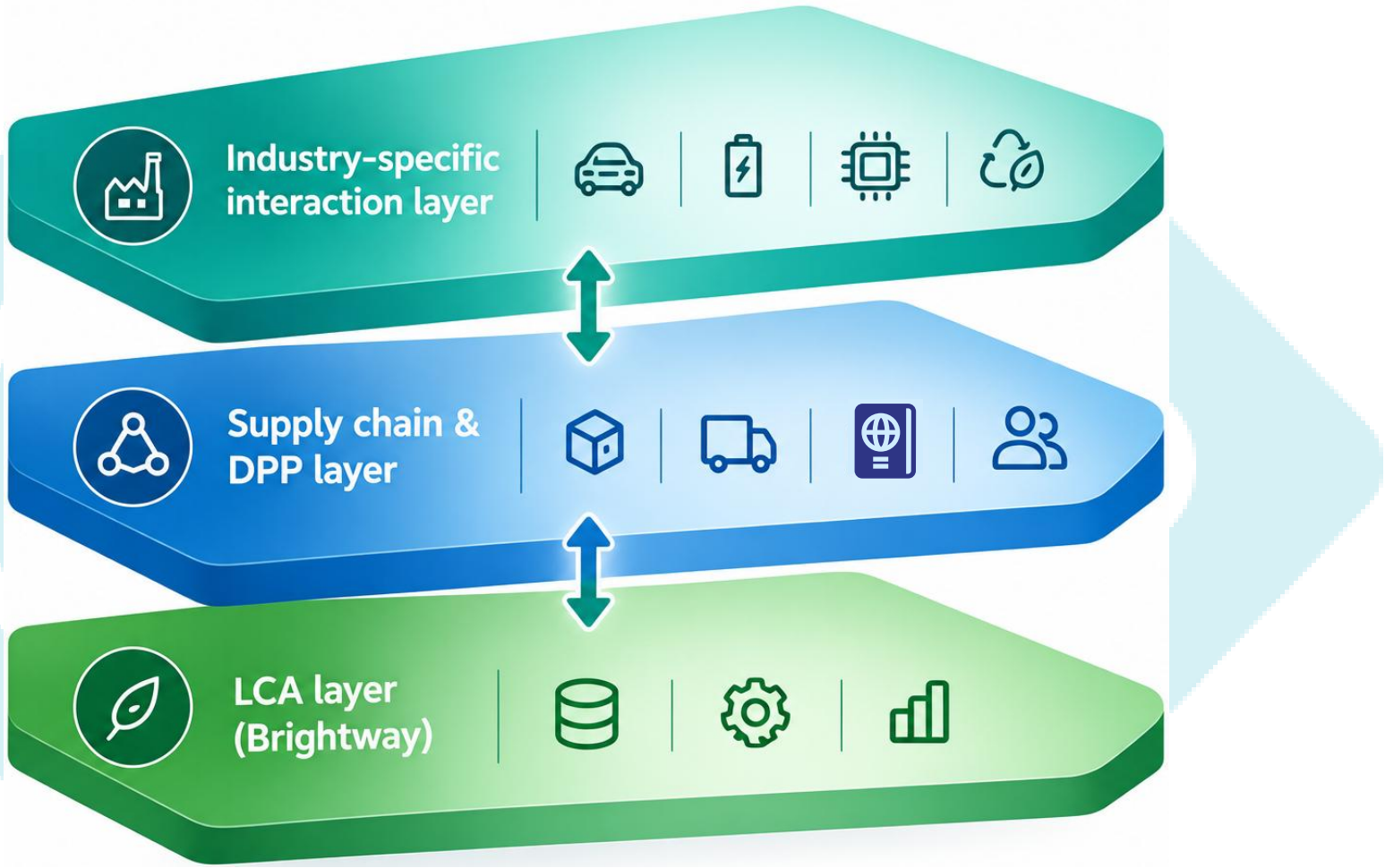


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Three-layer architecture



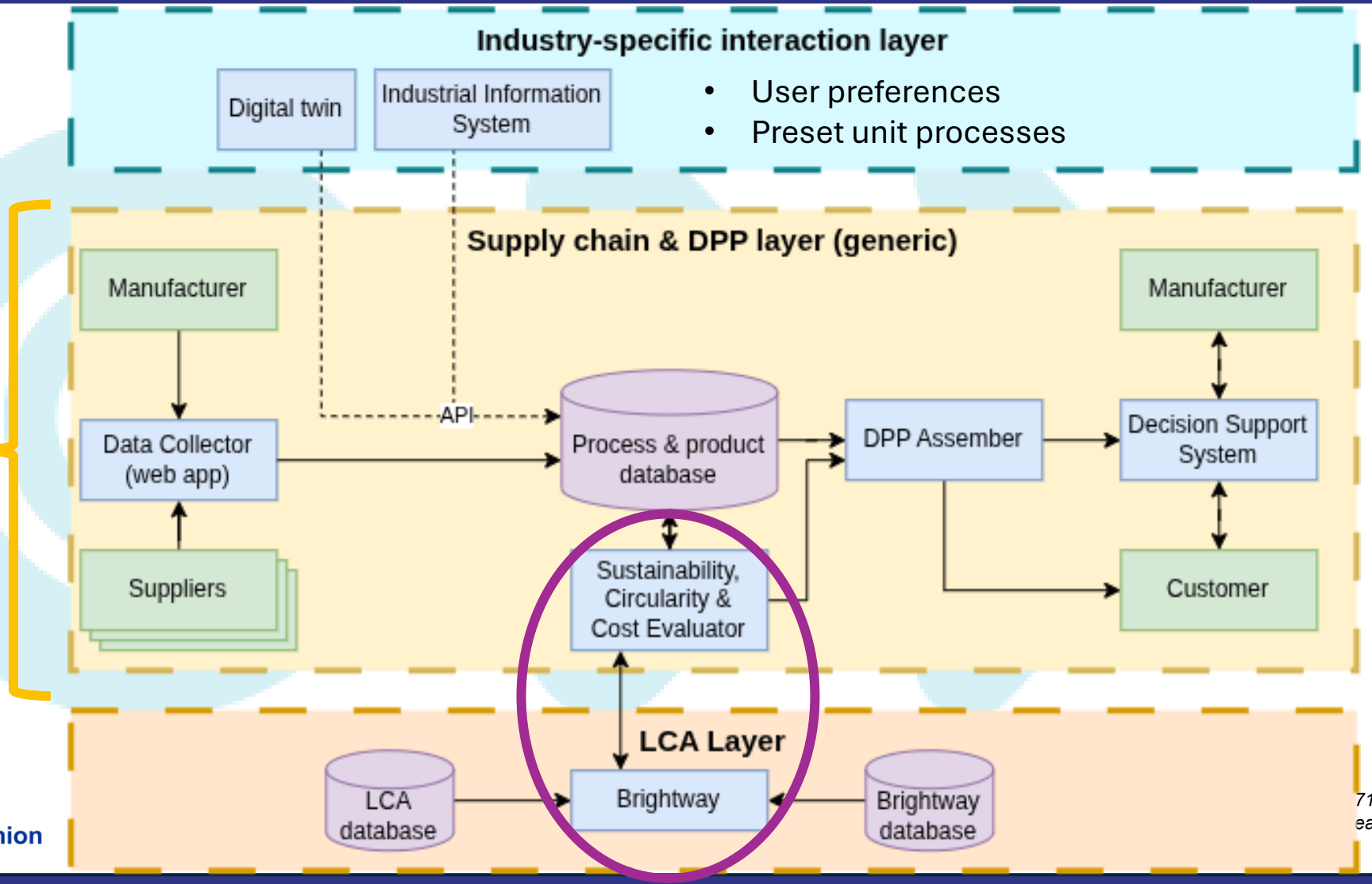
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Three-layer architecture

✅ Implemented as Django web app



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Thank you for your attention

Try it: l4m-ssvannielen.eu.pythonanywhere.com
Reuse it: https://github.com/CMLPlatform/SCE_API
Reach out: s.s.van.nielen@cml.leidenuniv.nl



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