


**Horizon Europe
PROFILE FORM**

Organization Name / Department	Tallinn University of Technology	Organization Short Name	Taltech
Organization Type	<input checked="" type="checkbox"/> University <input type="checkbox"/> Public Research Centre <input type="checkbox"/> Large Scale Enterprise <input type="checkbox"/> Small and Medium Scale Enterprise	<input checked="" type="checkbox"/> Public Body <input type="checkbox"/> International NGO <input type="checkbox"/> National NGO	
Research Fields	<p>TalTech is a university that relies on academic competencies and professional management, responds actively to the needs of the rapidly developing society, and is involved in tackling the challenges of the digital era.</p> <p>The tasks of the R&D field of TalTech: To initiate and engage in basic and applied studies in the relevant fields of research To conduct target- and grant-based research and R&D services on a contract basis To initiate and engage in programs and projects related to R&D activities and the implementation of research results.</p>		
Short Description of the Organization / Department	<p><u>Applied Artificial Intelligence Group</u> conducts research in application of AI methods in various fields and systems. We investigate applicability of machine learning, ontology-based reasoning, automated theorem provers, knowledge discovery, and other AI methods for solving digitalisation problems of different industrial and governmental stakeholders.</p> <p>AI Group has been interested and involved in DPP data and system-related issues since 2019.</p>		
Previous Related Projects / Research Experience	<p>TalTech Department of Software Science has as-good-as-it-gets <u>Digital Product Passport (DPP)</u> development and deployment experience and expertise.</p> <ul style="list-style-type: none"> • 2021-2023 National Project “Study of interoperability of sustainable consumption and product life support information”; • 2022-2024 DIGITAL-2021-TRUST-01-DIGIPASS „Collaborative Initiative for a Standards-based Digital Product Passport for Stakeholder-Specific Sharing of Product Data for a Circular Economy (CIRPASS)“; • 2024-2027 DIGITAL-2023-CLOUD-DATA-04-DIGIPASS „Digital Product Passports Enabling At-Scale and Real-Life Circular Economy Use Cases in electronics, textiles, tires and construction value chains“ (Proposal in Decision Phase). <p>TalTech DPP competence group has 5 software scientists guided by Prof. Tanel Tammet https://www.etis.ee/CV/Tanel_Tammet/eng</p>		
Short Description of the Project idea (if foreseeable)	<p>Our skills and references are appropriate for new Calls where the expectation of the invitation is the use of Digital Product Passports in a new project. Who could cover proposal’s DPP needs better than those who have hands-on piloted the development of the DPP system and data itself.</p>		
Related Call/Topic	HORIZON-CL4-2023-TWIN-TRANSITION-01-04	Factory-level and value chain approaches for rem (Made in Europe Partnership)	

	HORIZON-CL4-2024-TWIN-TRANSITION-01-05	Technologies/solutions to support circularity for m (Made in Europe Partnership)
	HORIZON-CL4-2024-TWIN-TRANSITION-01-44	Digital transformation and ensuring a better use o data, which can optimise steel supply chains (Cle; Partnership)
	HORIZON-CL6-2024-CircBio-01-3	Innovative circular solutions for furniture
	HORIZON-CL6-2024-CircBio-01-2	Circular solutions for textile value chains based or producer responsibility
	HORIZON-CL6-2024-CircBio-01-6	Digital information systems for bio-based products
	HORIZON-CL6-2024-CircBio-02-1	Circular solutions for textile value chains through i sorting, recycling, and design for recycling
	HORIZON-CL6-2024-CircBio-02-2	Increasing the circularity in plastics value chains
	HORIZON-CL6-2024-CircBio-02-3	Increasing the circularity in electronics value chair
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