

Annex I

Funded Research Projects Fact Sheets

SmartWins - Research Project Fact Sheet

Title of Project	Boosting Research for a Smart and Carbon Neutral Built Environment with Digital Twins - ongoing
Project Acronym	SmartWins
Funding Program	Horizon Europe
Project Identifier	HORIZON-WIDERA-2021-ACCESS-03-01
Total Budget/KTU Budget	1499974 € / 571875 €
Starting – Ending Date	10/2022-09/2025
Consortium	<ol style="list-style-type: none">1. Kaunas University of Technology – Coordinator (LT)2. Politecnico di Milano (IT)3. CERTH (GR)4. Contecht GmbH (DE)5. Innotrope SAS (FR)
Project Objectives	<p>The overall objective of the project “Boosting Research for a Smart and Carbon Neutral Built Environment with Digital Twins – SmartWins” is to build the capacities for the Kaunas University of Technology in Lithuania, through its “Sustainable Energy in the Built Environment” Research Group (SEBERG) within the Faculty of Civil Engineering and Architecture to conduct high-quality research on the topic of next generation digital twins, applied for allowing the transition to a smart, sustainable, resilient and carbon neutral built environment. The concept of the SmartWins project is to form a network between KTU and leading institutions in the field of energy and sustainability assessment of buildings with the use of Industry 4.0 practices related research and innovation management, for know-how transfer and development of a long-term research collaboration. KTU will twin with the Politecnico di Milano University (PoliMi, Italy), the Centre for Research and Technology, Hellas (CERTH, Greece), a spin-off of the Technical University of Berlin, Contecht GmbH (CON, Germany), and Innotrope (France), aiming to develop its excellence and international reputation in the field, to both cover fundamental research aspects, as well as to further develop its skills, practices and structures to conduct top-notch research.</p>
Work Packages	<p>WP1 Smart technologies for smart buildings: Digitisation, IoT and Indoor Environment Quality</p> <p>WP2 Research competence building. Research management and administration capacity building</p> <p>WP3 Linkages with businesses, citizen engagement and policy making</p> <p>WP4 Enhancing and enriching the educational activities of KTU</p> <p>WP5 Dissemination, exploitation, and communication</p> <p>WP6 Project management</p>
External References	<p>https://cordis.europa.eu/project/id/101078997</p> <p>https://ieeexplore.ieee.org/document/9922513</p>
Role in the Project	Coordinator