Dr.-Ing. Paris A. Fokaides
paris.fokaides@gmail.com
http://www.serg-web.com

Research Project Fact Sheet

Title of Project	**Next-generation Dynamic Digital EPCs for Enhanced Quality and User Awareness - ongoing**
Project Acronym	D^2EPC
Funding Program	H2020 - Building a low-carbon, climate resilient future (LC)
Project Identifier	Call Identifier H2020-LC-SC3-2019, Topic LC-SC3-EE-5-2019
Total Budget	199629 €
Starting – Ending Date	04/2019-03//2021
Consortium	1. Centre for Research & Technology, Hellas (GR) 2. Kaunas University of Technology, (LT) 3. GeoSystems Hellas (GR) 4. Cleopa GmbH (DE) 5. SEnerCon GmbH (DE) 6. UNE - Asociación Española de Normalización (ES) 7. DEMO Consultants BV (NL) 8. SGS Tecnos, S.A. (ES) 9. Hypertech Energy Labs (GR) 10. Austrian Standards International (AT) 11. Frederick Research Center (CY) 12. Austrian Energy Agency (AT)
Project Objectives	**General:** Next-generation Dynamic Digital EPCs for enhanced quality and user awareness (D^2EPC) project aspires to deliver the next-generation EPCs framework, based on a set of novel and user-friendly, holistic and human-centric indicators, which cover significant aspects of buildings energy performance including smartness, sustainability, environmental, human comfort and financial aspects. D^2EPC will be based on Level 3 6D-BIM literacy, integrating smart meters real-time data and activities profiling into the calculation process through digital twins. The proposed scheme will provide sufficient background for the redefinition of EPC related policies, through regular benchmarking and upgrade of the reference buildings, as well as with the integration of geolocation and "polluter pay" practices into the EPC rationale. The implementation of the proposed project is also anticipated to foster the energy saving consciousness of buildings' users, through their regular information on the actual energy performance of their buildings. The proposed D^2EPC scheme is expected to transform EPCs into a user-friendly, reliable and cost-effective informative tool for the wide public, as well as to establish the grounds for turning EPCs registries into consistent policy making databases.
Work Packages	WP1 Foundations for next generation dynamic EPCs (dEPCs): Identifying challenges, needs and opportunities WP2 Development of the Operational Framework for dEPC Schemes WP3 Building digitalisation and inverse modelling for implementing next generation dEPCs WP4 Digital Platform for Dynamic EPCs Issuance and Enabled Applications WP5 Demonstration and Impact Assessment WP6 Policy-related Implication for the enforcement of the next generation EPCs scheme WP7 Project Communication, Dissemination and Exploitation WP8 Project Management & Coordination
External References	