



An experimentally-validated multi-scale materials, process and device modelling & design platform enabling non-expert access to open innovation in the Organic and Large Area Electronics Industry (MUSICODE)

Grand Agreement: 953187

Project Start Date: 01/01/2021

Project Duration: 48 months

Deliverable 8.3

Short Activity Summary (M19-M24)

Date: 18-01-2023



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the Call DT-NMBP-11-2020 "Open Innovation Platform for Materials Modelling"

Project co-funded by the European Commission within Horizon 2020 Research and Innovation Programme		
Dissemination Level		
PU	Public	
PP	Restricted to other programme participants (including the Commission Service)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (excluding the Commission Services)	x

Deliverable author(s): Elefterios Lidorikis (Uoi), Argiris Laskarakis (AUn), Britta Nestler (KIT), Ravi Silva (USUR), Sandra Jenatsch (FLUXIM), Aron Kneer (TINNIT), Borek Patzak (CVUT), Davide Di Stefano (ANSYS), Dario Campagna (ESTECO), Chrisostomos Varlamis (OET), Peter Baumann (AIXTRON)

Contributors: Each of the authors above represents their team, with the responsibility to compile and edit the material collected by their teams. All team members from each partner contributed to the material and results shown in this report.

Draft Revisions:

17/12/2022 v0.1 prepared by the coordinator.

17/01/2023 v1.0 compiled by the coordinator using input from partners.

18/01/2023 v2.0 approved by the coordinator.

Copyright

@ Copyright 2021-2024 The MUSICODE Consortium

Coordinator:	University of Ioannina (Uoi)	Greece
Partners:	Karlsruhe Institute of Technology (KIT)	Germany
	University of Surrey (SURREY)	UK
	Aristotle University of Thessaloniki (AUn)	Greece
	Czech Technical University in Prague (CVUT)	Czechia
	Fluxim AG (FLUXIM)	Switzerland
	TinniT Technologies GmbH (TINNIT)	Germany
	ANSYS (ANSYS)	UK
	Esteco SPA (ESTECO)	Italy
	Organic Electronic Technologies (OET)	Greece
	AIXTRON (AIXTRON)	Germany

This document may not be copied, reproduced, or modified in whole or in part for any purpose without written permission from the MUSICODE Consortium. In addition to such written permission to copy, reproduce, or modify this document in whole or part, an acknowledgment of the authors of the document and all applicable portions of the copyright notice must be clearly referenced.



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the Call DT-NMBP-11-2020 "Open Innovation Platform for Materials Modelling"

"The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein."

Contents

Publishable summary	4
1. Introduction	5
2. Overview of objectives and work progress for the period M19-M24	5
2.1 List of objectives	5
2.2 Overview of work progress for the period	6
2.3 Highlights of significant results and achievements	8
2.4 Status of deliverables and milestones.....	9
2.5 Major deviations from workplan-risk mitigation	10
3. Work carried out per Task	11
3.1 WP1: Specifications & Ontology.....	11
3.2 WP2: Development of multiscale Modelling tools.....	15
3.3 WP3: Model validation by analytical characterization	26
3.4 WP4: Development of Open Innovation Modelling Platform	35
3.5 WP5: Cooperation with EU stakeholders for population of the workflows.....	38
3.6 WP6: User cases	43
3.7 WP7: Dissemination, Communication and Exploitation activities	52
4. Project Management & Administration	58
4.1 Project Management.....	58
4.2 Administrative, financial and Risk implementation	58
4.3 Data Management Plan	58
4.4 WP8 deliverables	59
5. Concluding remarks	60

Publishable summary

This Short Activity Summary (M19-M24) provides a brief report on the activities of the partners during the M19-M24 of the MUSICODE project. Progress is reported separately for each task in relation to the planned workplan and the project objectives. The report also summarizes the main achievements, the risks that materialized and corrective actions applied, as well as on the progress in the implementation of the workplan towards the M24. Finally, a short summary of the project management activities is provided.