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)

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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

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Publishable summary

MuPIF is a modular, object-oriented integration platform allowing to create complex, distributed, multi physics simulation workflows across the scales and processing chains by combining existing simulation tools (B. Patzák, 2013). In the Musicode project the MuPIF platform will serve and interact with the user applications providing a tool for creation and execution of complex simulation workflows on distributed computing resources. This report documents the alpha release of MuPIF simulation platform, which is intended to provide initial working setup to support Musicode operation. This document summarizes development done or foreseen to support successful project operation, notably in terms of (i) aligning with semantic requirements and domain specific ontology, (ii) adding support of new required data types and functionalities, and (iii) support for HPC resource utilization.