



D1.3 Simulation scenarios and preliminary KPIs assessment - I

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1.1	24/10/2019	Pablo Rodriguez Velasco (NISSAN)	Reviewing of document
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2.0	30/10/2019	Dionisis Andronas (LMS)	Second version of the document
2.0	02/12/2019	Jesús Pablo González (EURECAT)	Revision and Submission

Executive Summary

This deliverable contains the description of the assessment procedures that are implemented within T1.2 “Manufacturing environment and workload modelling” for the preliminary evaluation of KPIs derived in T1.5 “Definition of performance indicators for assessment” and T6.1 “Analysis of human factors based on initial models/simulations”. Those procedures include the development of a digital model framework that will be applied for representing robot and human tasks, referring to the enlistment of challenges, requirements and solutions presented in T1.1 “Use cases requirements analysis and specification of the robotic system”. The models will be used for examining the feasibility of conceptual layouts in addition to assessing KPIs in aspects of cycle time, ergonomics, etc. Metrics that are either related with algorithm performance or human factors will be evaluated through surveys. The present documentation starts by presenting metrics and topics that need to be considered for the evaluation procedures. It continues with the description of evaluation methodologies and summarizes the report by discussing expected outcomes by the end of T1.2.