



DELIVERABLE 6.4

Final guidelines and protocols for the deployment of STREAM-0D in multistage production lines.

Grant Agreement number: 723082

Project acronym: STREAM-0D

Project title: Simulation in Real Time for Manufacturing with Zero Defects

Project coordinator: INSTITUTO TECNOLÓGICO DE ARAGÓN

Call: H2020-FOF-2016

Topic FOF-03-2016: Zero-defect Strategies at System Level for Multi-stage Manufacturing in Production Lines

Project start date: 01/10/2016

Duration: 48 months

Reporting period: From 01/04/2019 to 30/09/2020

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723082

Disclaimer

This document contains material, which is the copyright of the STREAM-0D consortium, and may not be reproduced or copied without permission. All consortium partners have agreed to the full publication of this document. The commercial use of any information contained in this document may require a license from the proprietor of that information. The reproduction of this document or of parts of it requires an agreement with the proprietor of that information. The document must be referenced if used in a publication.

© 2016 - 2020 STREAM-0D Consortium

Partners

No.	Name	Short name	Country
1	INSTITUTO TECNOLÓGICO DE ARAGÓN	ITAINNOVA	Spain
2	FERSA BEARINGS	FERSA	Spain
3	ZF TRW – LUCAS VARITY GmbH	TRW	Germany
4	STANDARD PROFIL	SP	Spain
5	LABORATORY FOR MANUFACTURING SYSTEMS AND AUTOMATION	LMS	Greece
6	ECOLE CENTRAL NANTES	ECN	France
7	INTEGRATED ENVIRONMENTAL SOLUTIONS LIMITED	IES	UK
8	STAMTECH SRL	STAM	Italy
9	DAY ONE SRL	DAY-ONME	Italy
10	CENTER FOR TECHNOLOGY RESEARCH AND INNOVATION LTD	CETRI	Cyprus

Document Information

Project	STREAM-0D
Work Package	6
Deliverable n.	6.4
Version	1
Title	Final Guidelines and Protocols
Responsible beneficiary	ITAINNOVA
Involved beneficiaries	ITAINNOVA, STAM, IES, LMS
Type¹	R
Dissemination level²	CO
Due delivery date	30-9-2020
Actual submission date	30-9-2020

¹ **Types. R:** Document, report (excluding the periodic and final reports); **DEM:** Demonstrator, pilot, prototype, plan designs; **DEC:** Websites, patents filing, press & media actions, videos, etc.; **OTHER:** Software, technical diagram, etc.

² **Dissemination levels. PU:** Public, fully open, e.g. web; **CO:** Confidential, restricted under conditions set out in Model Grant Agreement; **CI:** Classified, information as referred to in Commission Decision 2001/844/EC.

Executive Summary

This deliverable is a final compilation of the methodology that must be followed to deploy the STREAM-OD service in a generic production lines. The STREAM-OD turn-key service consists of a collection of protocols and methodologies to be implemented in production lines (particularized to each production line) with the aim to convert said lines into zero-defect production lines.

The STREAM-OD solution consists of five phases or building blocks: i) Industrial requirements; ii) Reduced Order Models; iii) Online data gathering and data analysis; iv) Adaptive control and v) Integration, plus an additional sixth phase where a technical and economic assessment of the benefits and advantages of the new system is carried out.

The following picture shows a scheme of the phases and modules of STREAM-OD and how they interact:

