

HORIZON
2020

MModel based coNtrol framework for Site-wide OptmizatiON of data-intensive processes

Résultats

Informations projet

MONSOON

N° de convention de subvention: 723650

[Site Web du projet](#)

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[10.3030/723650](https://doi.org/10.3030/723650)

Projet clôturé

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30 Juin 2016

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€ 5 497 190,00

Coordonné par

FONDAZIONE LINKS - LEADING INNOVATION & KNOWLEDGE FOR SOCIETY

 Italy

Ce projet apparaît dans...



RESULTS PACK

11 Mai 2020



Intelligence artificielle: Booster l'industrie européenne

CORDIS fournit des liens vers les livrables publics et les publications des projets HORIZON.

Les liens vers les livrables et les publications des projets du 7e PC, ainsi que les liens vers certains types de résultats spécifiques tels que les jeux de données et les logiciels, sont récupérés dynamiquement sur [OpenAIRE](#) .

Livrables

Documents, reports (21)

[Communication and Dissemination Strategy](#)

A public report, led by CERTH, documenting the Communication and Dissemination Strategy

[Final Requirements and Architecture Specifications](#)

A public report, led by FRAUNHOFER, documenting the final Requirements and Architecture Specifications; this document updates D2.5

[Final Cross-sectorial Domain Model](#)

A public report, led by TUK, documenting the final Cross-sectorial Domain Model; this document updates D2.7

[Initial Cross-sectorial Domain Model](#)

A public report, led by TUK, documenting the Initial Cross-sectorial Domain Model

[Final Demonstrators in the Aluminium and Plastics domain](#)

A public report, led by GLN, documenting the final Demonstrators in the Aluminium and Plastics domain; this deliverable updates D7.3

[Initial Process Industry Domain Analysis and Use Cases](#)

A public report, led by AP, documenting initial Process Industry Domain Analysis and Use Cases

[Final Demonstrators Evaluation and Impact Report](#)

A public report, led by AP, documenting the final Demonstrators Evaluation and Impact results; this deliverable updates D7.5

[Updated Report on the standardization landscape and applicable standards](#)

A public report, led by AENOR/UNE, documenting the updated view on standardization landscape and applicable standards

[Initial Demonstrators in the Aluminium and Plastics domain](#)

A public report, led by AP, documenting the initial Demonstrators in the Aluminium and Plastics domain

[Final Process Industry Domain Analysis and Use Cases](#)

A public report, led by KIMW, documenting the final Process Industry Domain Analysis and Use Cases; this document updates D2.3

[Initial Demonstrators Evaluation and Impact Report](#)

A public report, led by GLN, documenting the initial Demonstrators Evaluation and Impact results

[Final Evaluation Framework](#)

A public report, led by LCEN, documenting the final Evaluation Framework; this document updates D7.1

[Initial Requirements and Architecture Specifications](#)

A public report, led by FRAUNHOFER, documenting the initial Requirements and Architecture Specifications

[Report on the contributions to standardization](#)

A public report, led by AENOR, documenting contributions to standardization

[Report on the standardization landscape and applicable standards](#)

A public report, led by AENOR, documenting the standardization landscape and applicable standards

[Updated Process Industry Domain Analysis and Use Cases](#)

A public report, led by GLN, documenting the updated Process Industry Domain Analysis and Use Cases; this document updates D2.2

[Test and Integration Plan](#)

A public report, led by FRAUNHOFER, documenting the Test and Integration Plan

[Initial Deployment and Maintenance Report](#)

A public report, led by GLN, documenting the initial Deployment and Maintenance activities

[Final Deployment and Maintenance Report](#)

A public report, led by AP, documenting the final Deployment and Maintenance activities; this deliverable updates D6.4

[Initial Evaluation Framework](#)

A public report, led by LCEN, documenting the initial Evaluation Framework

[MONSOON platform usage scenarios](#)

A public report, led by FRAUNHOFER, documenting MONSOON platform usage scenarios

Other (25)

[Final Lifecycle Management plugin](#)

A public prototype deliverable, led by LCEN, implementing and documenting the final Lifecycle Management plugin; this deliverable updated D5.7

[Final Virtual Process industries Resources Adaptation](#)

A public prototype deliverable, led by FRAUNHOFER, implementing and documenting the final Virtual Process industries Resources Adaptation; this deliverable updates D3.5

[Final Integrated Resource Optimization Toolkit, Decision Support](#)

A public prototype deliverable, led by FRAUNHOFER, implementing and documenting the final Integrated Resource Optimization Toolkit, Decision Support; this deliverable updates D5.5

[Initial Big Data Storage and Analytics Platform](#)

A public prototype deliverable, led by FRAUNHOFER, implementing and documenting the Initial Big Data Storage and Analytics Platform

[Updated Virtual Process industries Resources Adaptation](#)

A public prototype deliverable, led by CAP, implementing and documenting the updated Virtual Process industries Resources Adaptation; this deliverable updates D3.4

[Initial Runtime Container](#)

A public prototype deliverable, led by CAP, implementing and documenting the Initial Runtime Container

[Initial Online and Deep Machine Learning Functions](#)

A public prototype deliverable, led by PROB, implementing and documenting the Initial Online and Deep Machine Learning Functions

[Final Online and Deep Machine Learning Functions](#)

A public prototype deliverable, led by CERTH, implementing and documenting the final Online and Deep Machine Learning Functions; this deliverable updates D5.3

[Initial Trend Analysis Functions](#)

A public prototype deliverable, led by CERTH, implementing and documenting the Initial Trend Analysis Functions

[Updated Big Data Storage and Analytics Platform](#)

A public prototype deliverable, led by PROB, implementing and documenting the updated Big Data Storage and Analytics Platform; this deliverable updates D4.3

[Final Trend Analysis Functions](#)

A public prototype deliverable, led by PROB, implementing and documenting the final Trend Analysis Functions; this deliverable updates D5.1

[Initial Integrated Resource Optimization Toolkit, Decision Support](#)

A public prototype deliverable, led by TUK, implementing and documenting the Initial Integrated Resource Optimization Toolkit, Decision Support

[Final Big Data Storage and Analytics Platform](#)

A public prototype deliverable, led by CAP, implementing and documenting the final Big Data Storage and Analytics Platform; this deliverable updates D4.4

[Initial Virtual Process industries Resources Adaptation](#)

A public prototype deliverable, led by ISMB, implementing and documenting the Initial Virtual Process industries Resources Adaptation

[Final Semantic framework for dynamic multi-scale industry modelling](#)

A public prototype deliverable, led by TUK, implementing and documenting the final Semantic framework for dynamic multi-scale industry modelling; this deliverable updates D4.1

[Final Real time Communications Framework](#)

A public prototype deliverable, led by ISMB, implementing and documenting the final Real time Communications Framework; this deliverable updates D3.2

[Initial Lifecycle Management plugin](#)

A public prototype deliverable, led by LCEN, implementing and documenting the Initial Lifecycle Management plugin

[Updated Real time Communications Framework](#)

A public prototype deliverable, led by FRAUNHOFER, implementing and documenting the updated Real time Communications Framework; this deliverable updates D3.1

[Initial Semantic framework for dynamic multi-scale industry modelling](#)

A public prototype deliverable, led by TUK, implementing and documenting the Initial Semantic framework for dynamic multi-scale industry modelling

[Final Runtime Container](#)

A public prototype deliverable, led by CAP, implementing and documenting the final Runtime Container; this deliverable updates D3.7

[Final Integrated MONSOON Platform](#)

A public prototype deliverable, led by GLN, implementing and documenting the final Integrated MONSOON Platform; this deliverable updates D6.2

[Final Multi-scale Model based Development Environment](#)

A public prototype deliverable, led by CERTH, implementing and documenting the final Multi-scale Model based Development Environment; this deliverable updates D4.6

[Initial Integrated MONSOON Platform](#)

A public prototype deliverable, led by AP, implementing and documenting the Initial Integrated MONSOON Platform

[Initial Real time Communications Framework](#)

A public prototype deliverable, led by CAP, implementing and documenting the Initial Real time Communications Framework

[Initial Multi-scale Model based Development Environment](#)

A public prototype deliverable, led by CAP, implementing and documenting the Initial Multi-scale Model based Development Environment

[Project Website](#)

A public website deliverable, led by CERTH, implementing and documenting the MONSOON project website

[Final Project Advertising Materials and Results](#)

A public report, led by GLN, documenting the final Project Advertising Materials and Results; this deliverable updates D8.3

[Initial Project Advertising Materials and Results](#)

A public report, led by GLN, documenting the initial Project Advertising Materials and Results

Publications

Conference proceedings (5)

Forecasting faults of industrial equipment using machine and deep learning classifiers

Auteurs: Nikolaos Kolokas, Thanasis Vafeiadis, Dimosthenis Ioannidis, Dimitrios Tzovaras (CERTH)

Publié dans: IEEE International Conference on Innovations in Intelligent Systems and Applications, 2018

Éditeur: IEEE

MONSOON project – design of big data analysis platform in process industries (in Slovak)

Auteurs: Martin Sarnovsky, Peter Bednar (TUK)

Publié dans: Data a znalosti, 2017, Page(s) 93 - 97

Éditeur: University of West Bohemia

Forecasting bath and metal height features in electrolysis process

Auteurs: Achilleas Pasiadis, Thanasis Vafeiadis, Dimosthenis Ioannidis, Dimitrios Tzovaras

Publié dans: International Workshop on IoT Applications and Industry 4.0, 2019

Éditeur: International Workshop on IoT Applications and Industry 4.0

Anomaly detection in aluminum production with unsupervised machine learning classifiers

Auteurs: Nikolaos Kolokas, Thanasis Vafeiadis, Dimosthenis Ioannidis, Dimitrios Tzovaras

Publié dans: International Symposium on Innovations in Intelligent Systems and Applications, 2019

Éditeur: IEEE

Anode Quality Monitoring Using Advanced Data Analytics

Auteurs: Bilal Azennoud, Ameline Bernard, Vincent Bonnivard, Hervé Pedroli

Publié dans: Light Metals 2019: Electrode Technology for Aluminium Production, 2019

Éditeur: Springer, Cham

Peer reviewed articles (2)



Big Data Processing and Analytics Platform Architecture for Process Industry Factories

Auteurs: Peter Bednar, Martin Sarnovsky, Miroslav Smatana (TUK)

Publié dans: Big Data and Cognitive Computing Journal, 2018, ISSN 2504-2289

Éditeur: MDPI

Cross-Sectorial Semantic Model for Support of Data Analytics in Process Industries

Auteurs: Martin Sarnovsky, Peter Bednar, Miroslav Smatana

Publié dans: "Processes Journal, Special Numéro: ""Big Data Analysis in the Process Industry""", 2019, ISSN 2227-9717

Éditeur: MDPI

Non-peer reviewed articles (1)



Optimizing industrial processes through MONSOON

Auteurs: Jose Antonio Jimenez (UNE)

Publié dans: Revista UNE, 2018, Page(s) 24 - 25, ISSN 2605-0013

Éditeur: Spanish Association for Standardization (UNE)

Other (1)



The efficiency of production processes

Auteurs: Claudio Pastrone

Publié dans: Platinum, 2019

Éditeur: Newbusinessmedia

Dernière mise à jour: 17 Août 2022

Permalink: <https://cordis.europa.eu/project/id/723650/results/fr>

European Union, 2025

