

Cloud-based **R**apid **E**lastic **M**Anufacturing



WP9 – Impact

D9.12 / D87 - CREMA Workshop Reports I

Deliverable Lead: ASC

Contributing Partners: ASC

Delivery Date: 09/2016

Dissemination Level: Public

Version 1.0

This deliverable should present the findings from and represent the general reporting about the first CREMA workshop, including the attendees, contents, feedback, etc.

As the first workshop has not been held so far, this document includes all the current planning and knowledge for the first workshop.



Document Status	
Deliverable Lead	Tim Dellas, ASC
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Note

This deliverable is subject to final acceptance by the European Commission.

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Project Partners



Ascora GmbH, Germany



Information Catalyst, United Kingdom



Technische Universität Wien, Austria



Technology Application Network Limited,
United Kingdom



German Research Center for Artificial
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IKERLAN S. Coop., Spain



Ubisense, United Kingdom



Tenneco automotive Europe bvba,
Belgium



FAGOR ARRASATE S. Coop., Spain



Goizper, Spain

Executive Summary

The first CREMA Workshop will be held on November 24th in Hernando, Spain. The workshop will be held in collaboration with the C2NET project, and currently, the workshop report only consists of the current planning for the agenda, which is found within this document.

As, according to the Description of Action, this document should “present the findings from and the general reporting about the [...] CREMA Workshops including the attendees, contents, feedback, etc.”, but the workshop is still two and a half months in the future, TANet will create an additional document with the missing rest of the contents and deliver it to the EC and the reviewers in December.

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1 Introduction (this should actually be Section 1 of each deliverable)

CREMA – Cloud-based Rapid Elastic MAnufacturing – is a project funded by the Horizon 2020 Programme of the European Commission under Grant Agreement No. 637066.

1.1 CREMA Project Overview

CREMA aims at simplifying the establishment, management, adaptation, and monitoring of dynamic, cross-organisational manufacturing processes following Cloud manufacturing principles. CREMA will also provide the means to integrate data from distributed locations as if the complete manufacturing was carried out on the same shop floor, by integrating extra- and inter-plant manufacturing assets and making them “mobile”.

CREMA will be built upon concepts and methods from the fields of Virtual Factories, Service-oriented Computing, Ubiquitous Computing, Cyber-Physical Systems, the Internet of Things and the Internet of Services, and naturally and most importantly Cloud computing. To achieve its goals, the project will define tools and approaches in these areas:

- Manufacturing Virtualisation & Interoperability
- Cloud Manufacturing Process and Optimisation Framework
- Cloud Manufacturing Collaboration, Knowledge and Stakeholder Interaction Framework

Thus, to achieve its goals, CREMA conducts original research and applies technologies from the fields of full end-to-end integration of Cloud manufacturing, integration of manufacturing assets and corresponding data sources, the design and execution of manufacturing processes, to the end user support via collaboration and interaction tools. For more information, please refer to the project Website¹.

1.2 Deliverable Purpose, Scope and Context

Within this document, the findings from and the general reporting about the first CREMA workshop in Hernando (ES) including the attendees, contents, feedback, etc. should be reported. As the workshop is still 11 weeks into the future, only the current planning can be shown and the rest will be delivered in another document in December 2016.

1.3 Document Status and Target Audience

This document is listed in the Description of Action (DoA) as “public”, since it provides general information about a public event organised by the CREMA partners and can therefore be used by external parties in order to get respective insight into the project activities.

¹ <http://www.crema-project.eu/>

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While the document is primarily aimed at the project partners, this public deliverable can also be useful for the wider scientific and industrial community. This includes other publicly funded projects, which may be interested in collaboration activities.

1.4 Abbreviations and Glossary

A glossary of common terms and roles related to the realisation of CREMA as well as a list of abbreviations is provided as an online glossary² / abbreviations list³.

1.5 Document Structure

This deliverable is broken down into the following sections:

- Section 1 provides an introduction for this deliverable, including a general overview of the project, and outlines the purpose, scope, context, status, and target audience of this deliverable
- Section 2 provides the current planning for the first workshop

² <http://crema-project.eu/glossary>

³ <http://crema-project.eu/abbreviations>

2 Planning for Workshop I

The first CREMA Workshop will be held on November 24th in Hernando, Spain. The workshop will be held in collaboration with the C2NET project, and currently, the workshop report only consists of the current planning for the agenda, which is found within this document in the Annex.

As, according to the Description of Action, this document should “present the findings from and the general reporting about the [...] CREMA Workshops including the attendees, contents, feedback, etc.”, but the workshop is still two and a half months in the future, TANet will create an additional document with the missing rest of the contents and deliver it to the EC and the reviewers in December.

The first workshop will have an Industrial Focus and takes place in the heartland of three of our partners, FAGOR, GOIZPER and IKERLAN. Also, the area is deeply industrial, which means that there is enough possibility for additional audience from the industry.

The following projects have been contacted to this date, if they want to be part of the workshop. Green market projects sent a positive feedback, and the main organisers are CREMA and C2NET. The reason for inviting other research projects is, that projects with a similar focus can exploit the event for their needs, while giving feedback, networking opportunities and value for the workshop itself.

Table 1: Contacted Projects

Project Acronym	Website	Topic
PROSECO	http://proseco-project.eu/	FoF.NMP.2013-5 - Innovative design of personalised product-services and of their production processes based on collaborative environments
REEMAIN	http://www.reemain.eu	FoF.NMP.2013-1 - Improved use of renewable resources at factory level
SeISus	http://www.selsus.eu/	FoF.NMP.2013-8 - Innovative strategies for renovation and repair in manufacturing systems
SUPERFLEX	www.fp7-superflex.eu/	FoF.NMP.2013-6 - Mini-factories for customised products using local flexible production
CLOUDFLOW	www.eu-cloudflow.eu	FoF-ICT-2013.7.1 - Application experiments for robotics and simulation
C2NET	http://c2net-project.eu/	FoF-01-2014 - Process optimisation of manufacturing assets

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CREMA	http://www.crema-project.eu	FoF-01-2014 - Process optimisation of manufacturing assets
PREVIEW	http://www.preview-project.eu	FoF-01-2014 - Process optimisation of manufacturing assets
MEMAN	http://meman.eu/	FoF-03-2014 - Global energy and other resources efficiency in manufacturing enterprises
ICP4Life	http://www.icp4life.eu/	FoF-05-2014 - Innovative Product-Service design using manufacturing intelligence
DIVERSITY	https://www.diversity-project.eu/	FoF-05-2014 - Innovative Product-Service design using manufacturing intelligence
MANUTELLIGENCE	http://www.manutelligence.eu/	FoF-05-2014 - Innovative Product-Service design using manufacturing intelligence
ProRegio	http://www.h2020-proregio.eu/	FoF-05-2014 - Innovative Product-Service design using manufacturing intelligence
Co-FACTOR	http://www.cofactor-eu-project.org/	FoF-07-2014 - Support for the enhancement of the impact of FoF PPP projects
EFFECTIVE	http://www.effectivefof.eu/	FoF-07-2014 - Support for the enhancement of the impact of FoF PPP projects
FOCUS	http://www.focusonfof.eu/	FoF-07-2014 - Support for the enhancement of the impact of FoF PPP projects
FoF-Impact	http://www.effra.eu/impact/	FoF-07-2014 - Support for the enhancement of the impact of FoF PPP projects
Road2CPS	http://www.road2cps.eu/	ICT-01-2014 - Smart Cyber-Physical Systems
OPTIMISED		FoF-08-2015 - ICT-enabled modelling, simulation, analytics and forecasting technologies
MAYA	http://www.maya-euproject.com/	FoF-08-2015 - ICT-enabled modelling, simulation, analytics

		and forecasting technologies
MC-SUITE	http://www.mc-suite.eu/	FoF-08-2015 - ICT-enabled modelling, simulation, analytics and forecasting technologies
CxMan	http://www.caxman.eu/	FoF-08-2015 - ICT-enabled modelling, simulation, analytics and forecasting technologies
IMPROVE	http://improve-vfof.eu/	FoF-08-2015 - ICT-enabled modelling, simulation, analytics and forecasting technologies
BEinCPPS	http://www.beincpps.eu/	FoF-09-2015 - ICT Innovation for Manufacturing SMEs (I4MS)
Fortissimo 2	http://www.fortissimo-project.eu/	FoF-09-2015 - ICT Innovation for Manufacturing SMEs (I4MS)
I4MS-Growth	http://i4ms.eu/	FoF-09-2015 - ICT Innovation for Manufacturing SMEs (I4MS)
OPENMIND	http://www.openmind-project.eu/	FoF-10-2015 - Manufacturing of custom made parts for personalised products
ReCaM	http://recam-project.eu/	FoF-11-2015 - Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots
openMOS		FoF-11-2015 - Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots
PERFoRM	http://www.horizon2020-perform.eu	FoF-11-2015 - Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots
MANTIS	http://www.mantis-project.eu/	ECSEL-01-2014 - ECSEL Key Applications and Essential Technologies (RIA)
AUTOWARE		FoF-11-2016 - Digital automation
COMPOSITION		FoF-11-2016 - Digital automation
DAEDALUS		FoF-11-2016 - Digital automation
DIGICOR		FoF-11-2016 - Digital automation

DISRUPT		FoF-11-2016 - Digital automation
FAR-EDGE		FoF-11-2016 - Digital automation
NIMBLE		FoF-11-2016 - Digital automation
SAFIRE		FoF-11-2016 - Digital automation
vf-OS		FoF-11-2016 - Digital automation
ConnectedFactories		FoF-11-2016 - Digital automation

Annex

This is the current workshop agenda on September 8th:



1st CREMA/C2NET Industrial Workshop



Date: 24th of November, 2016
Location: Orona Fundazioa | Jauregi Bidea s/n | 20120 Hernani | Gipuzkoa (Spain)

Agenda (Draft)

09:00 – 09:30	Registration
09:30 – 09:40	Opening session Welcome and event presentation (CREMA/C2NET) Basque Government short talk (TBD)
9:40 – 10:00	Keynote speaker presentation – Industry 4.0 Implementation Strategy (TBD)
10:00 – 10:15	Digitising European Industry (Max Lemke, Head of Unit, Components and Systems, EC – TBC)
10:15 – 11:00	The CREMA / C2NET viewpoint on future Industrial trends and a taste of the services that can be deployed in the Industrial Arena
11:00 – 11:30	Coffee Break
11:30 – 12:15	CREMA – Cloud Services for the Manufacturing Sector
12:15 – 13:00	C2NET – The complete Networked solution for Industry
13:00 – 14:00	Lunch break
14:00 – 14:45	Second Keynote speaker presentation – Key hurdles to be overcome to make the Digitising Economy a reality (TBD)
14:45 – 15:15	Interactive Session: Feedback from audience to capture the Pros and Cons if Industry 4.0. What hurdles need to be overcome from an Industrial viewpoint
15:15 – 15:45	CREMA / C2NET Response to the Interactive Session and potential solutions to the Industry 4.0 Implementation and Deployment Strategies
15:45 – 16:00	Coffee Break
16:30 – 17:00	Panel discussion Finishing off with closing remarks for the end of the Event



This event in the frames of “CREMA - Cloud-based Rapid Elastic Manufacturing” and “C2NET - Cloud Collaborative Manufacturing Networks” projects which have received funding from the European Union’s Horizon 2020 research and innovation programme under Grant Agreements N°s 637066 and 636909 respectively.

