



D6.11 – COMMUNICATION KIT FIRST RELEASE

Project Information

GRANT AGREEMENT NUMBER	723699
PROJECT FULL TITLE	Driving up Reliability and Efficiency of Additive Manufacturing
PROJECT ACRONYM	DREAM
FUNDING SCHEME	RIA
START DATE OF THE PROJECT	01 Oct 2016
DURATION	36 months
CALL IDENTIFIER	H2020-FOF-2016
PROJECT WEBSITE	www.dream-euproject.eu

Deliverable Information

DELIVERABLE N°	39 (Relative Number D6.11)
DELIVERABLE TITLE	Communication Kit - First release
WP NO.	6
WP LEADER	BEWG
CONTRIBUTING PARTNERS	INSTM
NATURE	OTHER: Software, technical diagram, etc.
AUTHORS	Massimo Rinaldi
CONTRIBUTORS	Elena Bassoli
REVIEWERS	/
CONTRACTUAL DEADLINE	M1
DELIVERY DATE TO EC	M3

Dissemination Level

PU public

Document Log

Version	Date	Author	Description of Change
1	22/11/2016	Massimo Rinaldi	First Release
2	13/12/2016	Massimo Rinaldi	Second Release

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1 EXECUTIVE SUMMARY

The Public Communication Kit (First Release) is a public instrument that can be used for communication/dissemination purposes without asking prior advice on contents; project partners are always required to inform the Communication and Dissemination Manager about the specific channel where the Communication KIT will be used (Event, articles, conferences, meetings, social media) and the contact details to be currently used is:

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Publications/Presentations out of the Communication KIT must always follow the rules of the Article 29.1 of the GA: *“A beneficiary that intends to disseminate its results must give advance notice to the other beneficiaries of — unless agreed otherwise — at least 45 days, together with sufficient information on the results it will disseminate. Any other beneficiary may object within — unless agreed otherwise — 30 days of receiving notification, if it can show that its legitimate interests in relation to the results or background would be significantly harmed. In such cases, the dissemination may not take place unless appropriate steps are taken to safeguard these legitimate interests.”*

The Communication KIT documents will be available for free download from the Project Website and they will be updated at M18 (Communication KIT – Second release) and at M36 (Communication Kit – Final release).

The Communication KIT comprises:

- Agenda Template
- Deliverable template
- Logos, Backgrounds and Symbol
- Leaflet
- Poster 90x60
- Roll-up 170x55
- Press Release
- Work Package Presentation Template

Click below to download the communication KIT documents:

[Communication KIT link for download](#)

2 Agenda Template

Figure 1 – DREAM Agenda



HORIZON 2020

Project ID	723699
Project name:	DREAM
Project Start Date	01 October 2016
Project Duration	36 months

11th XXXXXXXXXXXX 201X

Day 1 Location
 XXXXXXXXXXXXX
 XXXXXXXXXXXXX – Italy

TIME	SUBJECT	WHO
14.00 – 14.10		
14.10 – 15.45		
15.45 – 16.00		
16.00 – 16.30		
16.30 – 17.00		
17.00 – 18.00		
20.30		



PHOTONICS PUBLIC-PRIVATE PARTNERSHIP



FoF
 Facilitator of the Future
 Public-Private Partnership

3 Deliverable Template

Figure 2 – DREAM Deliverable template



DX.Y – TITLE OF DELIVERABLE

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DELIVERABLE N°	
DELIVERABLE TITLE	
WP NO.	
WP LEADER	
CONTRIBUTING PARTNERS	
NATURE	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.
AUTHORS	
CONTRIBUTORS	
REVIEWERS	
CONTRACTUAL DEADLINE	
DELIVERY DATE TO EC	

Dissemination Level

PU public. **PP** Restricted to other programme participants (incl. Commission Services). **RE** Restricted to a group specified by the consortium (incl. Commission Services). **CO** Confidential, only for the members of the consortium (incl. Commission Services)

4 Logo

Figure 3 – DREAM Logo red version



Figure 4 – DREAM Logo grey version



5 Backgrounds

Figure 5 – DREAM background red version

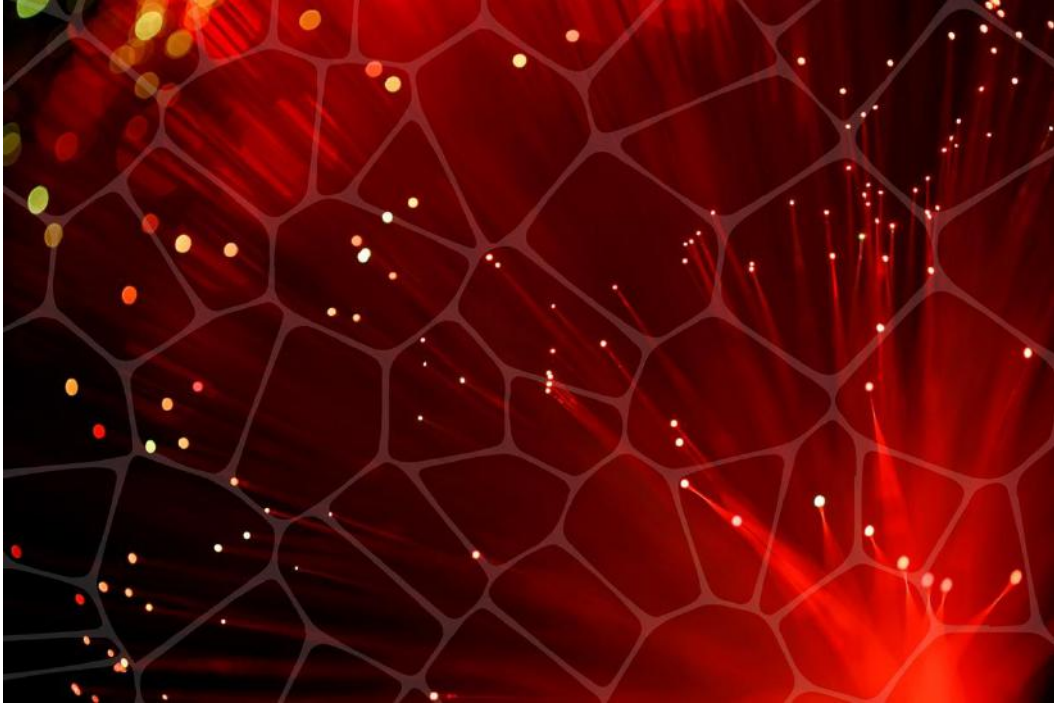
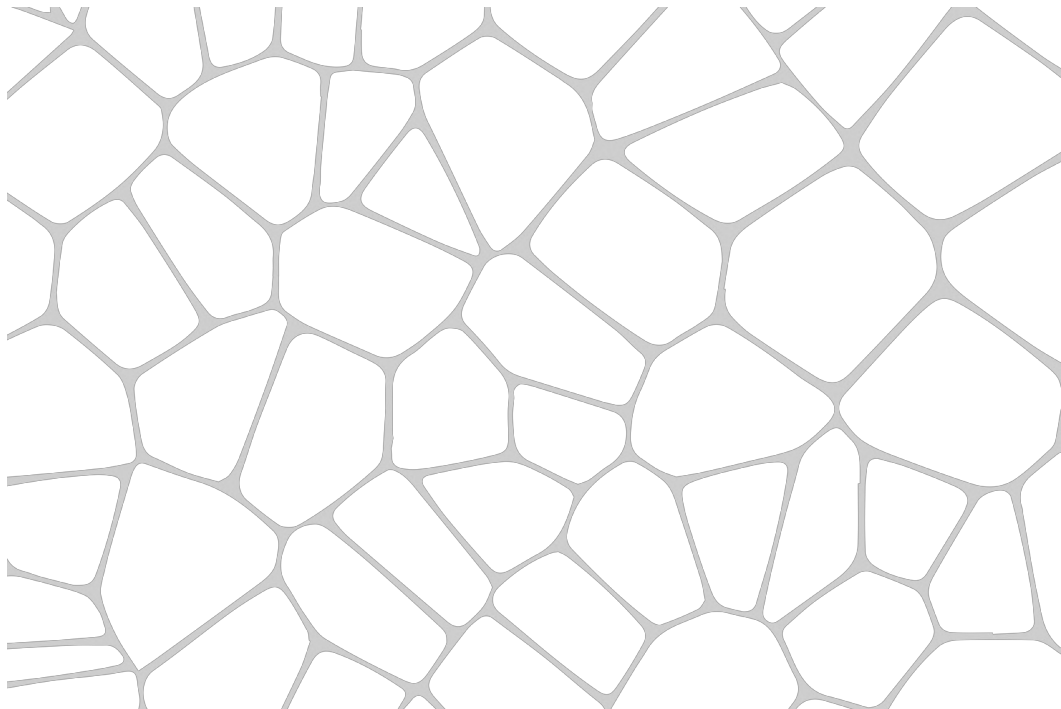
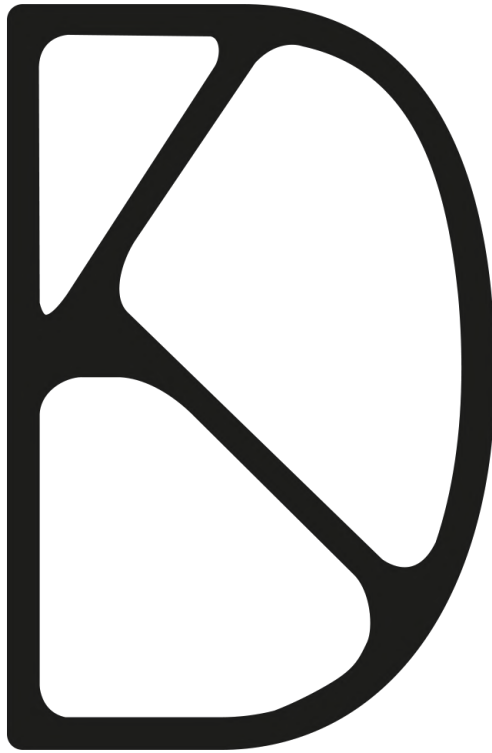


Figure 6 – DREAM background grey version



6 Symbol

Figure 7 – DREAM symbol



7 Leaflet

Figure 8 – DREAM leaflet

Innovation Target

KPI1
at least 15% weight reduction of parts optimized in topology and for Additive Manufacturing

KPI2
reduction of more than 10% of material cost

KPI3
increase over 15% of productivity achieved for PBF process

KPI4
increase over 5% of production speed of laser PBF systems

KPI5
increase above 20% of fatigue strength of metal parts produced with laser PBF (up to +120%)

Aims

Widening the application of Additive Manufacturing to medium femoral stems, by overcoming the current limitations through the combined innovation of part modeling, raw material, and process parameters (medium size prosthetic titanium components).

Redesigning the engine subframe mount and producing it by Powder Bed Fusion, with expected groundbreaking drops of weight, cost, and time, (lightweight automotive Aluminum components).

Redesigning the insert by a topological optimization approach to channel design and producing it by Powder Bed Fusion, with improved functionality and impressive prolongation of fatigue life (steel mould inserts with improved functionality and longer fatigue life).

Business Cases

Medium size prosthetic titanium components

Lightweight automotive Aluminum components

Mould inserts

beWARRANT

EOS

POLY-SHAPE

MIND.4D

Project

Title: Driving up Reliability and Efficiency of Additive Manufacturing

Acronym: DREAM

Call identifier: H2020-PDF-2016

Topic: FOF-10-2016: Photonic Laser-based production

Funding scheme: Research and Innovation Action

Grant Management number: 733636

Duration: 36 months

Start Date: 01 Oct 2016

Estimated Project Cost and EU Contribution: €3,242,430.00

Project Website: www.dream-eu.org

Project Contacts:
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Project Manager: Massimiliano Vichi, massimiliano.vichi@unimore.it
Dissemination Manager: Massimo Paoletti, massimiliano.paoletti@unimore.it

Consortium

Short name	Participant Organization	Country
INSTM (I/N)	Consorzio Interuniversitario Nazionale per lo Studio e la Tecnologia dei Materiali	Italy
EOS (I/E)	EOS GmbH Electro-Optical Systems	Germany
UTBv (I/N)	Università Transilvania di Braşov	Romania
BEWO (S/M)	BeWarrant	Belgium
MIND4D (S/M)	S.C. Mind Four D S.R.L.	Romania
POLYS (S/M)	Poly-Shape S.A.S	France
ADLERFR (S/M)	Adler Ortho France S.A.R.L.	France
RB (S/M)	R.B. S.R.L.	Italy
FERRARI (I/E)	Ferrari S.p.A.	Italy

The Challenge

- Part modeling and topological optimization
- Raw material optimization to avoid powder contamination
- Process optimization, including innovations of the control software of the Additive Manufacturing machine to enable high throughput production
- Validation and Standardisation of the process on industrial components for three different materials (titanium, Aluminum, and steel)

Project

Project ambition

- Novel component geometry:**
 - Part redesign by applying topology optimization/design for Additive Manufacturing
 - Lower cost, building time and part weight
- Use of improved and new raw materials:**
 - Device to remove contamination from the raw material
 - Use of nanostructured titanium powders
- Superior process control:**
 - Better control of the effects of laser parameters on melt pool, instability, cooling defects
 - Prior control of the heat input and augmented fatigue life
 - Innovations of Additive Manufacturing machine control software
 - Increase of productivity
 - Higher reliability

Objective

The aim of DREAM is to significantly improve the performance of laser Powder Bed Fusion of titanium (Ti), aluminum, and steel components in terms of speed, costs, material use and reliability also using a Life Cycle approach, whilst producing workpieces with controlled and significantly increased fatigue life, as well with higher strength-to-weight ratios.

The motivation for the project is to go far beyond the state of the art in laser-based Powder Bed Fusion, by mastering of all stages of the process chain, among the numerous industrial applications, the project is focused on components for prosthetic, automotive and moulding applications to optimize the procedures respectively for titanium, aluminum and steel.

DREAM targets the development of a competitive supply chain to increase the productivity of laser-based Additive Manufacturing and to bring it a significant step further towards large scale industrial use.

8 Poster 90x60

Figure 9 – DREAM poster 90x60

DREAM
Driving up Reliability and Efficiency of Additive Manufacturing

Objective
The aim of DREAM is to significantly improve the performance of laser Powder Bed Fusion of titanium (PBF), aluminium, and steel components in terms of speed, costs, material use and reliability, also using a Life Cycle approach, whilst producing work pieces with controlled and significantly increased fatigue life, as well with higher strength-to-weight ratios.
The motivation for the project is to go beyond the state of the art in laser-based Powder Bed Fusion, by mastering of all stages of the process chain along the numerous industrial applications, the project is focused on components for prosthetics, automotive and moulding applications to optimize the process reproductively for titanium, aluminium and steel.
DREAM targets the development of a competitive supply chain, which increases the productivity of laser-based Additive Manufacturing and to bring it a significant step further towards larger scale industrial use.

Consortium

Short name	Participant Organization	Country
INSTM (I)	Consorzio Nazionale Interuniversitario per le Scienze e Tecnologie dei Materiali	Italy
EOS (E)	EOS GmbH Electro-Optical Systems	Germany
UTIN (U)	Universidade Tecnológica do Brasil	Brazil
BEWA (B)	BeWarrant	Belgium
MIND4D (M)	S.C. Mind Four D S.R.L.	Romania
POLYS (P)	Poly-Shape S.A.S.	France
ADLERFR (A)	Adler Ortho France S.A.R.L.	France
RB (R)	R&B S.p.A.	Italy
FERRARI (F)	Ferrari S.p.A.	Italy

Project
Title: Driving Up Reliability and Efficiency of Additive Manufacturing
Acronym: DREAM
Call Identifier: H2020-FOF-2016
Topic: FOF-13-2016: Photonics Laser-based production
Funding scheme: Research and Innovation Action
Grant Management number: 723659
Duration: 36 months
Start Date: March 2016
Estimated Project Cost and EU Contribution: €3,242,435.00
Project Website: www.dream-euproject.eu
Project Contacts:
Project Coordinator: Elena Baciok, elena.baciok@unimib.it
Project Manager: Irena Vokri, irena.vokri@warrantgroup.com
Dissemination Manager: Massimo Inaldi, massimo.inaldi@warrantgroup.com

The Challenge

Project

Business Cases

Medium size prosthetic titanium components

Lightweight automotive Aluminium components

Mould Inserts

ADLER ORTHO FRANCE

FERRARI

A.B.I. S.p.A.

Project ambition

Innovation Target

Novel component geometry:
a) Part redesign by applying topology optimization design for Additive Manufacturing
b) Lower cost, building time and part weight

Use of improved and new raw materials:
a) Device to remove contamination from the raw material
b) Use of nanostructured titanium powders

Superior process control:
a) Better control of the effects of laser parameters on melt track instability/cooling defects
b) Finer control of the heat input and augmented fatigue life
c) Innovations of Additive Manufacturing machine control software
d) Increase of productivity
e) Higher reliability

KPI1: at least 10% weight reduction of part sub-assembly together with Additive Manufacturing

KPI2: increase at least 20% of production speed of laser PBF systems

KPI3: reduction of at least 10% of material cost

KPI4: increase over 10% of productivity achieved for the process

KPI5: increase at least 20% of fatigue strength of metal parts produced with laser PBF due to a100%

KPI6: increase at least 20% of productivity achieved for the process

KPI7: increase at least 20% of productivity achieved for the process

KPI8: increase at least 20% of productivity achieved for the process

KPI9: increase at least 20% of productivity achieved for the process

KPI10: increase at least 20% of productivity achieved for the process

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KPI98: increase at least 20% of productivity achieved for the process

KPI99: increase at least 20% of productivity achieved for the process

KPI100: increase at least 20% of productivity achieved for the process

ADLER ORTHO FRANCE

beWARRANT

EOS

FERRARI

MIND.4D

POLY-SHAPE

A.B.I. S.p.A.

University of Brescia

9 Roll-up 170x55

Figure 10 – DREAM roll-up 170x55



Objective

The aim of DREAM is to significantly improve the performance of laser Powder Bed Fusion (LPBF) of titanium, aluminium, and steel components in terms of speed, costs, material usage and reliability, also using a fully data-driven approach to reduce scrap, with consequent and significant increases in quality, as well with higher strength in applications.

The motivation for the project is to guide beyond the state of the art an industrial Powder Bed Fusion by reaching all stages of the process chain, among the numerous industrial applications, the project is focused on components for prosthetic, automotive and aviation applications to optimize the production requirements for the key attributes and cost.

DREAM targets the development of a competitive supply chain to overcome the productivity of conventional Additive Manufacturing technology, it is a significant step further towards large scale industrial use.

Project

Title: Bringing up Productivity and Efficiency of Additive Manufacturing
 Acronym: DREAM
 Call identifier: 101017-DC-2019
 Topic: FGF-19-2018-Project 6 - Laser-based production
 Funding scheme: Research and Innovation Action
 Grant Management number: 725966
 Duration: 30 months
 Start Date: 01 Oct 2019
 Estimated Project Cost and EU Contribution: € 2.242,000,00
 Project Website: www.dream-eu-project.eu

Project Co-ordinator: Elna Steinhilber
 Project Coordinator: Elna Steinhilber, elna.steinhilber@unipi.it
 Project Manager: Inês Vici, ines.vici@unipi.it
 Dissemination Manager: Massimo Turchetti, massi.turchetti@unipi.it

The Challenges

Innovation Target

Business Cases

1 Medium size prosthetic titanium components

ADLER TRIESTE

2 Lightweight automotive Aluminium components

FERRARI

3 Mould inserts

WIPAC

10 Press Release

The text prepared for the press release is the following:

“Industry 4.0 is now becoming real with the DREAM project that focuses on powder bed fusion technology that can produce innovative metal components faster, more flexibly and more precisely than ever before. DREAM stands for “Driving up Reliability and Efficiency of Additive Manufacturing” and it has been funded under Horizon 2020 Factories of the Future Initiative with an EU contribution of more than 3,2 millions of euros. The Project starts in October 2016 and with a 36 months duration implements a disruptive photonics technology to enable the 4th Industrial revolution through the implementation of laser-based metal Additive Manufacturing.

The specific aim of DREAM is to significantly improve the performances of laser Powder Bed Fusion of titanium, aluminium and steel components in the following terms: weight reduction (15%), production speed increase (5%), material cost reduction (10%), process productivity increase (+15%) and fatigue test increase (from 20% up to 120%) with a sustainable Life Cycle Approach.

In order to upscale the results and to reach an industrial relevant level of productivity, the project focuses on four main challenges: part modeling and topology optimization, raw material optimization to avoid powder contamination, process and software innovation, validation and standardization of the process on industrial components for the different materials.

The coordinating partner, Consortium of Italian Universities for the Science and Technology of Materials (INSTM), has a long time experience in Additive Manufacturing technique which allows to support optimally all the project tasks, from the topological optimization to the study of new set of laser parameters; the INSTM Local Research Units involved in the project are Modena and Reggio Emilia with both the Department of Engineering “Enzo Ferrari” (DIEF) and the Department of Sciences and Methods for Engineering (DISMI), Parma (Dept. of Industrial Engineering) and Ancona (Polytechnic University of Marche, Dept. of Materials, Environmental Sciences and Urban Planning); in addition the project involves one of Romania’s largest academic institutions, Transilvania University of Brasov, with extensive R&D experience in Additive Manufacturing.

The project management and dissemination is in charge of BEWarrant, a Belgian consultancy company, part of Warrant Group S.r.l., that provides full-spectrum consulting services in European Projects.

DREAM involves all the major players of the industrial supply chain to bring laser-based additive manufacturing a significant step further towards larger scale industrial manufacturing. The project is strongly user driven and it implies the participation of one of world leaders among the system and powder suppliers, EOS GmbH; an emerging engineering design company as Mind Four D S.R.L. and the major European additive manufacturing service provider, Poly-Shape S.A.S.

DREAM tests the application of Additive Manufacturing on three relevant end-users test cases: engine automotive aluminum components of Ferrari S.p.a.; medium size prosthetic titanium components of Adler Ortho S.p.A and steel mould insert of R.B. S.r.l..

Finally, through innovations in part modelling, materials and additive processing, DREAM will add competitiveness at all steps of the manufacturing chain, so that each of the Consortium partners will benefit from a reinforced industrial leadership, consisting in the offer of: more efficient additive manufacturing systems; optimized on-demand services for the production of cost-effective component, novel engineering design services combining topology optimization and design; more lightweight and reliable products”.

Figure 11 – DREAM press release



Industry 4.0 is now becoming real with the DREAM project that focuses on powder bed fusion technology that can produce innovative metal components faster, more flexibly and more precisely than ever before. DREAM stands for “Driving up Reliability and Efficiency of Additive Manufacturing” and it has been funded under Horizon 2020 Factories of the Future Initiative with an EU contribution of more than 3,2 millions of euros. The Project starts in October 2016 and with a 36 months duration implements a disruptive photonics technology to enable the 4th Industrial revolution through the implementation of laser-based metal Additive Manufacturing.

The specific aim of DREAM is to significantly improve the performances of laser Powder Bed Fusion of titanium, aluminium and steel components in the following terms: *weight reduction (15%), production speed increase (5%), material cost reduction (10%), process productivity increase (+15%) and fatigue test increase (from 20% up to 120%)* with a sustainable Life Cycle Approach.

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Finally, through innovations in part modelling, materials and additive processing, DREAM will add competitiveness at all steps of the manufacturing chain, so that each of the Consortium partners will benefit from a reinforced industrial leadership, consisting in the offer of: more efficient additive manufacturing systems; optimized on-demand services for the production of cost-effective component, novel engineering design services combining topology optimization and design; more lightweight and reliable products.

11 Work Package Presentation Template

Figure 11 – DREAM work package presentation



HORIZON 2020



Meeting name

XXXXXXXXXX

WP X

Title of WP



PHOTONICS PUBLIC PRIVATE PARTNERSHIP

