

# DREAM

The DREAM Project, funded by the European Commission, is approaching the development of a competitive supply chain to increase the productivity of laser-based AM and to bring it a significant step further towards larger scale industrial manufacturing, within the fields of prosthetic, automotive and moulding manufacturing.

DREAM collaborates with the key EU projects HYPROCELL, BIONICAIRCRAFT, ENCOMPASS & LASIMM, PARADDISE, AMOS, MMTECH, HIPERLAM, motivated by a mutual interest in the field of Additive Manufacturing (AM) and driven to promote the benefits of European Strategic Actions for AM, under the patronage of the Common Dissemination Booster.

## DREAM SUMMER SCHOOL IS ADDRESSED TO:



Post-Graduate



Early-stage & senior researchers



Professionals



Technicians from industries

## OBJECTIVES

DREAM Summer School focuses on:

- › The potential improvement of AM in real manufacturing conditions in terms of productivity, quality and reliability, also using a LCA approach
- › The competitiveness at all steps of the AM supply chain to bring it to a significant step further towards larger industrial scale

## Organising Committee

beWARRANT



UNIMORE  
UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA

IN COLLABORATION WITH  
W.TRAINING

## More info

[www.dream-euproject.eu](http://www.dream-euproject.eu)

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[channel/UC1Rjj6yO1VxkFIO\\_iJejU9g](https://www.youtube.com/channel/UC1Rjj6yO1VxkFIO_iJejU9g)



Registration

Common Dissemination Booster

These projects have received support from the European Commission's  
Common Dissemination Booster



PHOTONICS<sup>21</sup>

PHOTONICS PUBLIC PRIVATE PARTNERSHIP



Factories of the Future  
Public Private Partnership



This project has received funding from the European Union's Horizon2020  
research and innovation programme under grant agreement n. 723699.

Powered by beWarrant S.L.

# DREAM

## Summer School

*Metal Additive manufacturing for real industrial  
applications: from the lab to the product*

3-7 June 2019 | Maranello (Italy)



[dreameuproject](https://www.facebook.com/dreameuproject)

[DreamEuproject](https://twitter.com/DreamEuproject)

EARLY BIRD REGISTRATION:  
870 euro (all inclusive): until 21 April 2019

## SCHOOL PROGRAMME

### Monday, 3rd June 2019

LOCATION: Dept. of Engineering "Enzo Ferrari", via Vivarelli 10, Modena

*Welcome Cocktails*

14.00 - 15.30: **Participant presentation.** *Isella Vicini*, BeWarrant - *Elena Bassoli*, University of Modena

15.30 - 16.00: **DREAM Project: an introduction.** *Elena Bassoli*, University of Modena

16.00 -17.00: **Basics of AM and PBF.** *Andrea Gatto*, University of Modena

17.00 - 18.30: Visit to Dept. of Engineering Laboratories and practical activities

Transfer to Maranello Village, via Terra delle Rosse 12, Maranello

**Dinner at Maranello Village**

### Tuesday, 4th June 2019

MORNING LOCATION: Museo Ferrari - Via Dino Ferrari, 43 - 41053 Maranello (MO)

9.00 - 10.00: **A real case of AM in the automotive sector.** *Andrea Merulla*, Ferrari S.p.A.

10.00 - 11.00: **AM components in industrial assembly line.** to be confirmed, Ferrari S.p.A.

11.00 - 12.00: **Electron microscopy approach to raw metal powders quality check.** *Eleonora Santecchia*, Marche Polytechnic University

12.00 - 13.00: Guided tour to Ferrari Museum

13.00 - 14.00: **LIGHT LUNCH**

AFTERNOON LOCATION: Dept. of Engineering "Enzo Ferrari", via Vivarelli 10, Modena

15.00 - 17.00: Racing Team Experience with the More Modena Racing Formula SAE team

Transfer to Maranello Village, via Terra delle Rosse 12, Maranello

**Dinner at Maranello Village**

### Wednesday, 5th June 2019

MORNING LOCATION: University of Modena

9.00 - 10.00: **Supports generation, AM equipment general set-up.** *Andrea Fontanesi*, Poly-Shape

10.00 - 11.00: **Group activities:**

Group 1: Practical experience on the experimental characterization of parts produced by PBF

Group 2: Practical experience on the characterization of powders for PBF

11.00 - 12.00: **Group activities:**

Group 2: Practical experience on the experimental characterization of parts produced by PBF

Group 1: Practical experience on the characterization of powders for PBF

12.00 -13.00: **Innovative materials for Additive Manufacturing.** *Federica Bondioli*, Politecnico di Torino

13.00 - 14.00: **LIGHT LUNCH**

14.00 - 15.00: **Main applications and problems of SLM technology in tools production.** *Daniele Miceli*, RB S.p.A.

AFTERNOON LOCATION: R.B. Spa, via Luigi Gavioli 1, Mirandola

15.45 - 16.45: **Group activities:**

Group 1: Practical experience on the removal of a finished job

Group 2: Visit to RB premises

16.45 - 17.45: **Group activities:**

Group 2: Practical experience on the removal of a finished job

Group 1: Visit to RB premises

Transfer to Maranello Village, via Terra delle Rosse 12, Maranello

**Dinner at Maranello Village**

### Thursday, 6th June 2019

LOCATION: University of Modena

9.00 - 10.00: **Horizon 2020 "DREAM" project main achievements.** *Elena Bassoli*, University of Modena

10.00 - 11.00: **Machine, high level parameters.** *Olli Nyrhilä*, EOS Finland Oy

11.00 - 12.00: **Design of novel additive manufacturing materials for biomedical applications.** *Daniel Cristea* and *Camelia Gabor*, Transilvania University

12.00 - 13.00: **Test and certification.** *Fabio Alemani*, Adler Ortho France

13.00 - 14.00: **LIGHT LUNCH**

14.00 - 14.15: **Horizon Europe perspective for Research & Innovation projects.** *Isella Vicini*, beWarrant S.L.

14.15 - 14.30: **Additive Manufacturing R&I Group in partnership with the Common Dissemination Booster of the European Commission.** *Cinzia Iacono*, Warrant Hub

14.30 - 15.10: **HyProCell Project: Development and validation of integrated multiprocess HYbrid PROduction CELLS for rapid individualized laser-based production.** *Rodolphe Gie*, Poly-Shape France

15.10 - 15.50: **AMOS Project: Additive Manufacturing Optimization and Simulation Platform for repairing and re-manufacturing of aerospace components.** *Udisien Woy*, Nuclear Advanced Manufacturing Research Centre of UK

15.50 - 16.30: **Paraddise Project: A Productive, Affordable and Reliable solution for large scale manufacturing of metallic components by combining laser-based ADDitive and Subtractive processes with high Efficiency.** *Eneko Ukar*, University of Basque Country

16.30 - 18.00: **Panel Discussion/Round Table: AM future trends for a widespread adoption at industrial level.** Chair: *Elena Bassoli*, University of Modena

18.00 - 18.30: **School Closing and Graduation**

Transfer to Museo Enzo Ferrari, Via Paolo Ferrari 85, Modena

19.30 - 21.30: Museo Enzo Ferrari Visit and Gala Cocktail

### Friday, 7th June 2019

Side event visit to Modena

The logo for the DREAM project, featuring the word "DREAM" in a bold, stylized, distressed font. The letters are white with a dark, textured background, giving it a metallic or industrial appearance.