

## AM Platform meeting

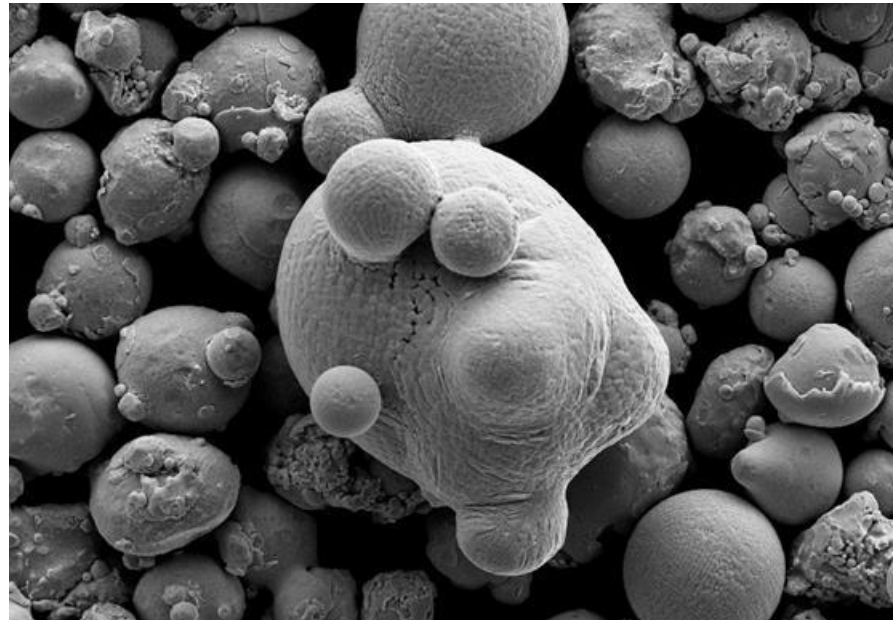
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*Highlights & clustering of running AM EU Projects*

### **TIFAN & COMBILASER**

15<sup>th</sup> AM Platform meeting

February 5-6<sup>th</sup> 2015  
Castello del Valentino  
Turin, Italy



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IK4-LORTEK (LORTEK)

## Content

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1- About IK4-LORTEK

2- Running AM projects



# COMBILASER

*“COMbination of non-contact, high speed monitoring and non-destructive techniques applicable to LASER Based Manufacturing through a self-learning system”*

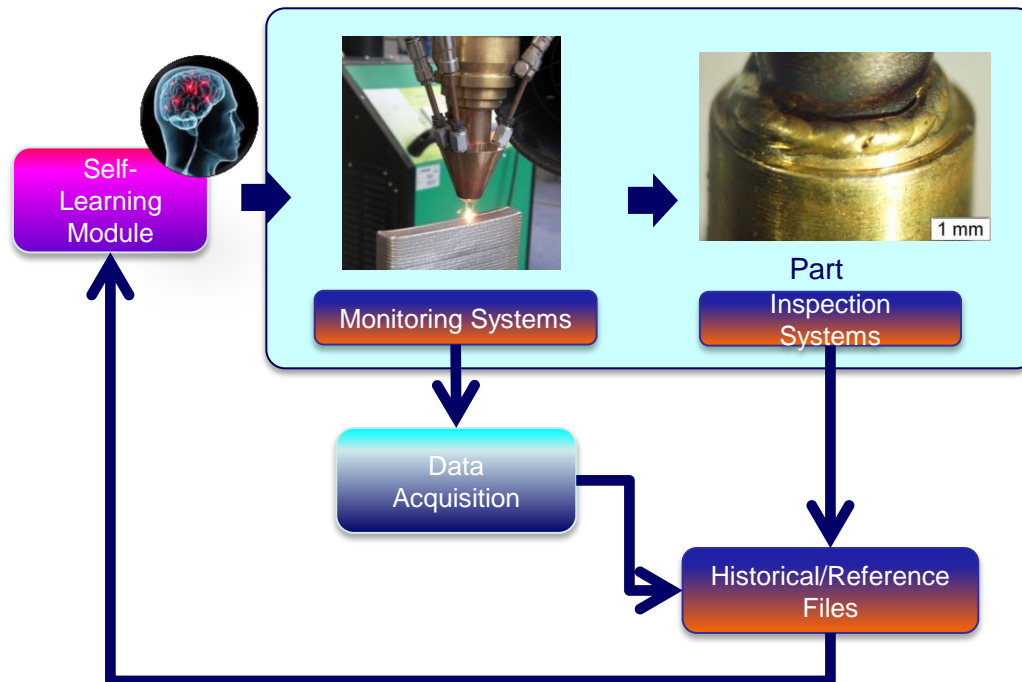
EC funded project (H2020-2014 call)  
Started in 01-01-2015



Participant No.	Participant organisation name	Country
1 LE (Coordinator)	Hidria AET	Slovenia
2 RTD	IK4-Lortek	Spain
3 RTD	Laser Zentrum Hannover	Germany
4 RTD	Recendt	Austria
5 UNI	The Universtiy of Sheffield	UK
6 SME	Laserline	Germany
7 LE	Orkli S. Coop.	Spain
8 SME	Talleres Mecánicos Comas	Spain
9 SME	Mondragon Assembly	France
10 SME	4D Gmbh	Germany
11 SME	CAVITAR	Finland
12 SME	SiEVA	Slovenia

# COMBILASER

The objective of COMBILASER project is the minimization of defects appearance in laser based manufacturing fulfilling the **Zero-failure manufacturing approach**. For that purpose, the combination of these two worlds (monitoring data vs detected defects by NDT) through a **Self-Learning System (SLS)** -human-centric system- will be developed. The subjective operator will be turned into **objective decisions** making use of frameworks that mimic human cognition (i.e. incremental learning, learning by examples...). This will enable a real and automatic self-adaptive feed back to the **laser manufacturing systems and its quality improvement**.



# COMBILASER





Thank you for your attention