

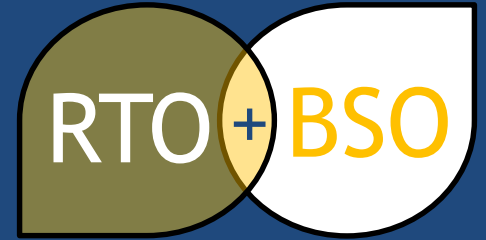
Summary

The aim of AMiCE is to support SMEs in the adoption of new advanced manufacturing technologies and circular economy principles. By providing the knowledge needed to endeavour such challenge, the Alliance will connect SMEs with innovation actors, namely RTOs and policy, who will give support in terms of expertise and capabilities. To do this, AMiCE will develop three tools for facilitating this process and effectively tackling the challenges of the regions involved.

Project partners - Regional tandems

The partnership of AMiCE is formed by 5 regional tandem partners. Each tandem is formed by an RTO providing the technical expertise plus a BSO.

SAXONY Chemnitz University of Technology University of Applied Science Zittau/Görlitz	LOWER SILESIA LETIA Technology Park of Legnica Institute of Technology Transfer Ltd. Wroclaw	CZECH REPUBLIC Technical University of Liberec RDA of Usti Region
LIGURIA University of Genoa - Polytechnic School Liguria Regional Chamber of Commerce	SLOVAKIA University of Zilina BIC Bratislava	CATALONIA Leitat



Pilot - Ansaldo Energia - AM for gas turbine spare parts manufacturing

The Challenges of CE

How we tackle them

The Results

1 Knowledge and technology transfer:

Ansaldo Energia (AEN), international player in the power generation industry, introduced additive manufacturing technologies for gas turbine spare parts production

Innovation 4.0 knowledge network

The replacement of conventional casting process via SLM opens a door for upgrades of key components. One example is the burner head which has the function to mix fuel and air for the pilot flame.



1

Our supply-chain maturity models, help us to obtain benefits for spare part production with a rapid manufacturing and faster time to market and stock reduction consequently

2 Testing and production facilities

AEN in collaboration with Genoa Additive Manufacturing Laboratory (GEAM) a joint between Italian Institute of Welding (IIS) and University of Genoa, are studying a guide lines for AM process qualification
<https://www.ansaldoenergia.com/Pages/Lighthouse-Plant.aspx>

Learning and demonstration network

The Company attended in several congresses on additive topics to spread his experience, such as:

RM FORUM 2018 Additive Technologies - Milan

National Welding Days 2019 - Genoa

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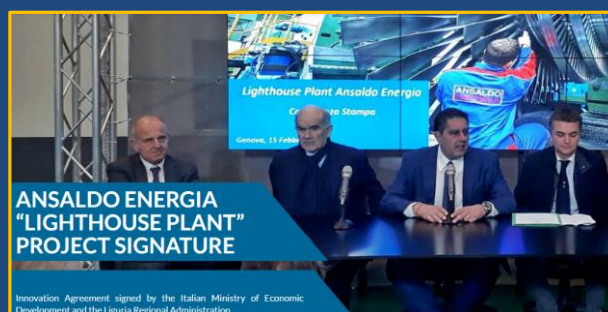
Feasibility studies for the development of prototype through non-destructive and destructive laboratory test

3 Business development

Additive technology specialization courses for technical coordinators on additive techniques in collaboration with IIS and updates with expert suppliers

Innovation 4.0 cooperation hotspot

AEN aims to create and promote new knowledge in the area of additive manufacturing to increase its business



3

The Quality product, which has always been the goal of AEN, help to maintain Customer satisfaction and loyalty