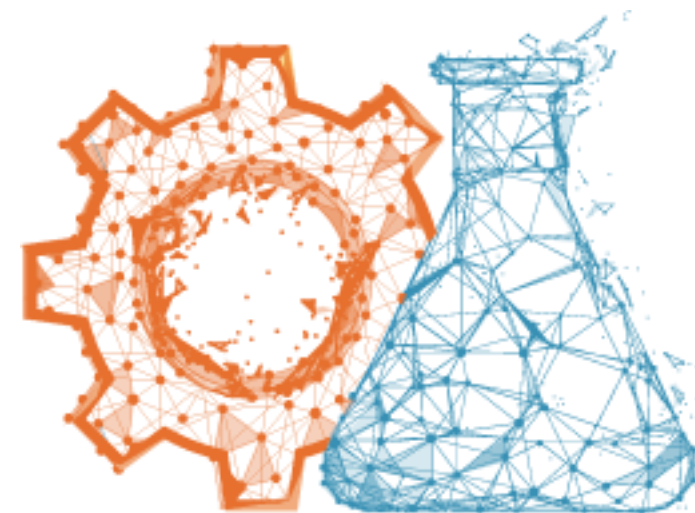


# ESPERIENZA DI TEC EUROLAB: PROGETTO AMULET

14 FEBBRAIO 2023

WEBINAR «ORIENTARSI NEI CASCADE FUNDING  
EUROPEI: UNA BUSSOLA PER L'ACCESSO ALLE  
OPEN CALL EUROPEE»



Ing. Fabio Esposito – R&D Manager

# CHI SIAMO

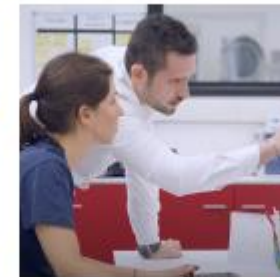
TEC Eurolab è un laboratorio di terza parte per le prove sui materiali: indipendente, imparziale e accreditato UNI CEI EN ISO/IEC 17025:2018 e NADCAP.

Centro di eccellenza per prove di laboratorio e controlli non distruttivi, è in grado di affiancare ogni azienda manifatturiera nella ricerca e nel raggiungimento dei massimi standard di qualità e sicurezza dei propri prodotti e processi.

Possiamo aiutarti su ogni richiesta specifica.



TESTING



FORMAZIONE



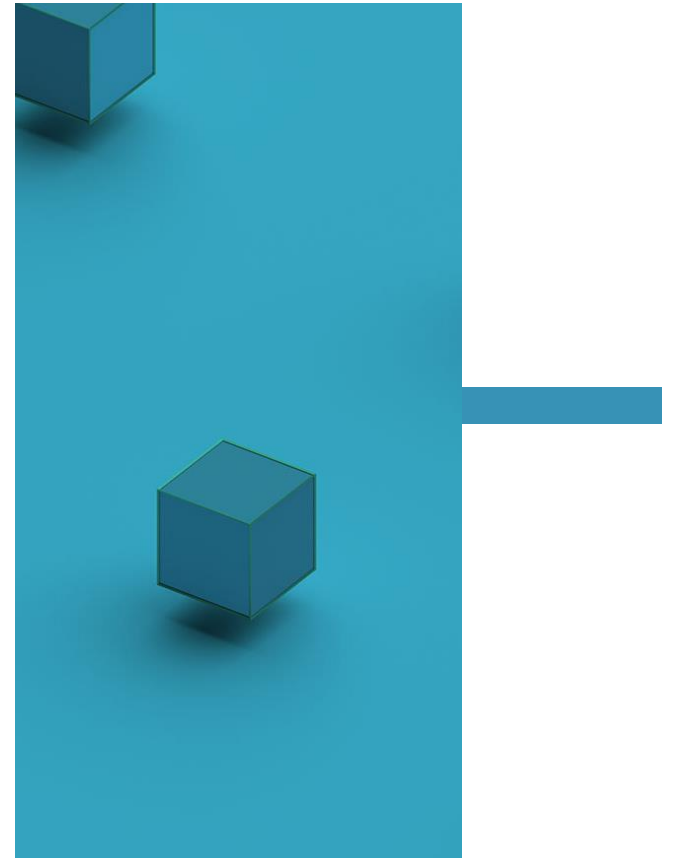
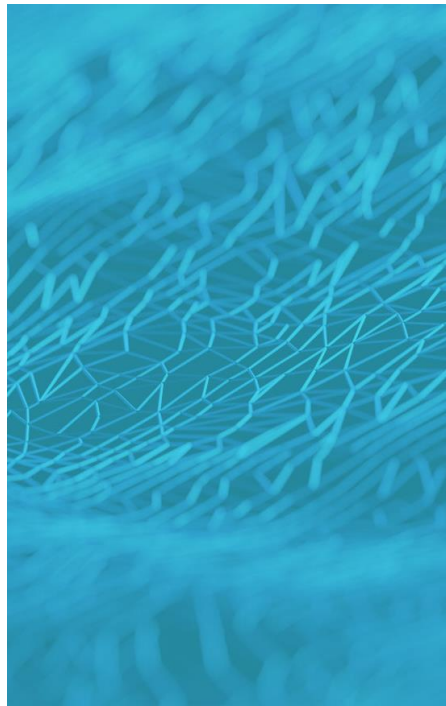
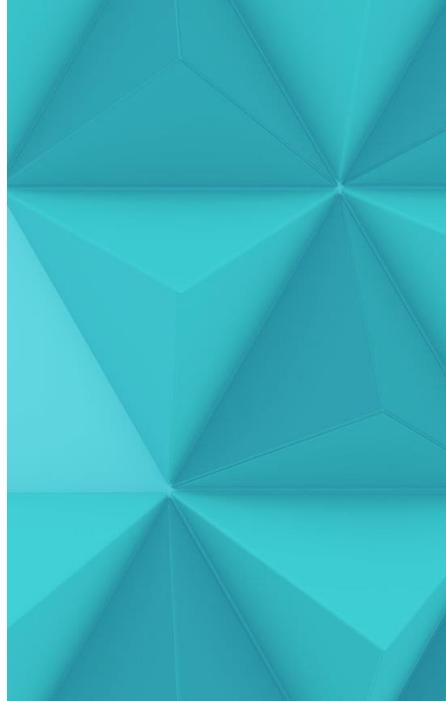
CERTIFICAZIONE

# I NOSTRI NUMERI

**3** stabilimenti

**85** collaboratori

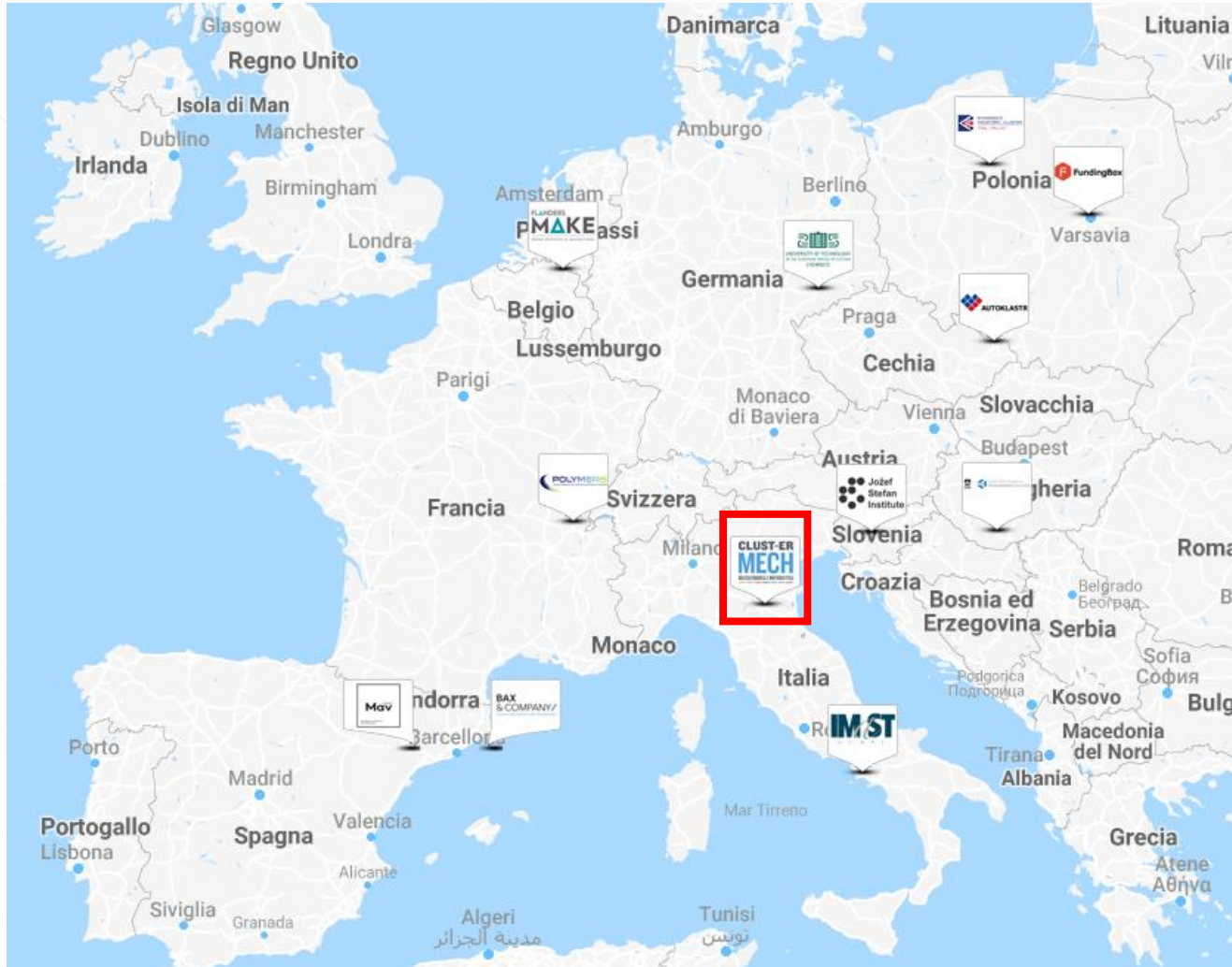
**5.000** mq testing area



# NETWORKING E PARTNERSHIP



# AMULET: I PARTNER



**AMULET**

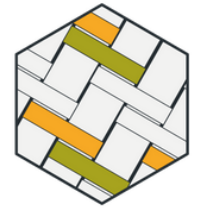
Advanced Materials & Manufacturing  
Technologies United for LightwEighT



Light metal  
alloys



Ceramic matrix  
composites



Polymer-based  
composites



Building



Aerospace  
&Aeronautics



Energy



Automotive

# AMULET: IL MATCHMAKING

AMULET Info Day and Matchmaking Platform

**AMULET**

**1ST OPEN CALL**

**DEADLINE EXTENDED FOR APPLICANTS**

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The banner features a purple sidebar with navigation icons (home, search, profile, etc.) and a bottom bar with icons representing various industries: a globe, a factory worker, an airplane, a wind turbine, and a car.

Vertical sidebar with icons: microphone, people, question mark, star, briefcase, messages, settings, power.

**Fabio Esposito**  
TEC Eurolab Srl | R&D Manager  
8 months ago

Hello, I am Fabio Esposito, R&D Manager of TEC Eurolab, an Italian company whose main services are focused on the characterization of materials and components through chemical, mechanical, physical and NDT tests. We would like to talk about possible cooperations related to light metal alloy and composite material. We can support companies in their project.

Comment 2

**Gani Melik Onder**  
Alloyadditive | R&D Engineer  
8 months ago

My name is Gani. I'm R&D engineer at additive manufacturing start-up company called AlloyAdditive from Turkey. Our company works on wire+arc additive manufacturing (waam) technology. We can produce large scale parts from Ti64, Inconel and stainless steel alloys mainly. We would like to talk about possible cooperations related to light metal alloy challenges. Best Regards. [ganimelikonder@alloyadditive.com](mailto:ganimelikonder@alloyadditive.com)

Comment 0

<https://virtual-stage.eventtia.com/en/amulet-h2020/login>

# AMULET: IL PROGETTO

## Nuovi materiali sostenibili per l'industria edilizia

### 3DMgO

3D printing materials based on magnesium oxide binder

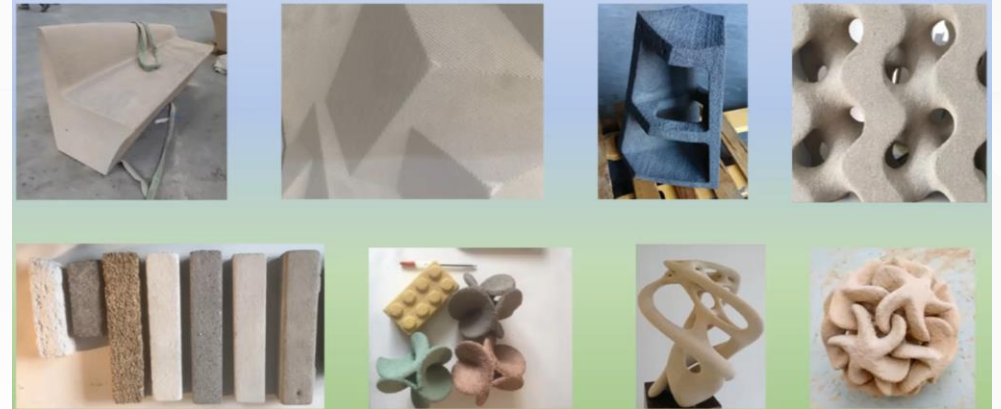
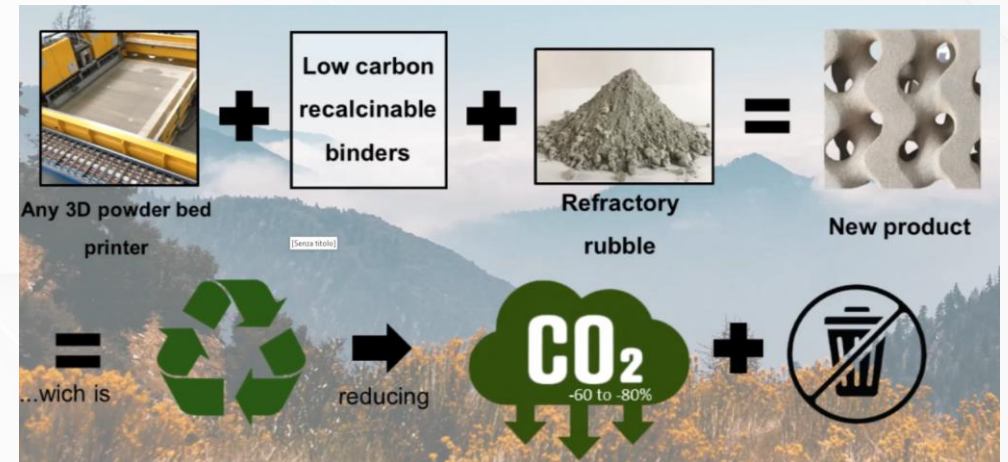
Coordinator:	Georg Breitenberger individual company (Austria)
Partner:	TEC Eurolab srl (Italy)
Material:	Ceramic Matrix Composites
Challenge:	26

Many raw mineral materials have become rare. The overexploitation of resources is damaging the landscape and biodiversity. In the 3DMGO project, ParaStruct and Tec Eurolab want to show how used blast furnace linings and magnesia production residues can be made usable through additive manufacturing. The project aims to contribute to the circular economy and waste valorisation.

**ParaStruct**  
a brand from Georg Breitenberger individual company

Georg Breitenberger  
Individual Company

**TEC-Eurolab**



# AMULET: ATTIVITÀ SVOLTE

**This application was successfully submitted**

Status: Submitted

Started 8 months ago by @georg\_breiten

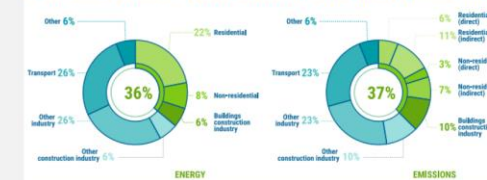
Edited 7 months ago by @georg\_breiten

★	✓	<b>BASIC AND LEGAL INFORMATION*</b>	View
★	✓	<b>PROJECT*</b>	View
★	✓	<b>EXCELLENCE*</b>	View
★	✓	<b>IMPACT*</b>	View
★	✓	<b>IMPLEMENTATION*</b>	View
★	✓	<b>ETHICS SELF ASSESSMENT*</b>	View
	✓	<b>STATISTICAL SECTION</b>	View
★	✓	<b>DECLARATION OF HONOUR*</b>	View
★	✓	<b>PROCESSING OF PERSONAL DATA*</b>	View

## Problem that we want to solve :

Our buildings and the construction industry are responsible for 36% of global energy consumption and 37% of global CO2 emissions. Most building products are not very sustainable.

Figure 2. Buildings and construction's share of global final energy and energy-related CO<sub>2</sub> emissions, 2020



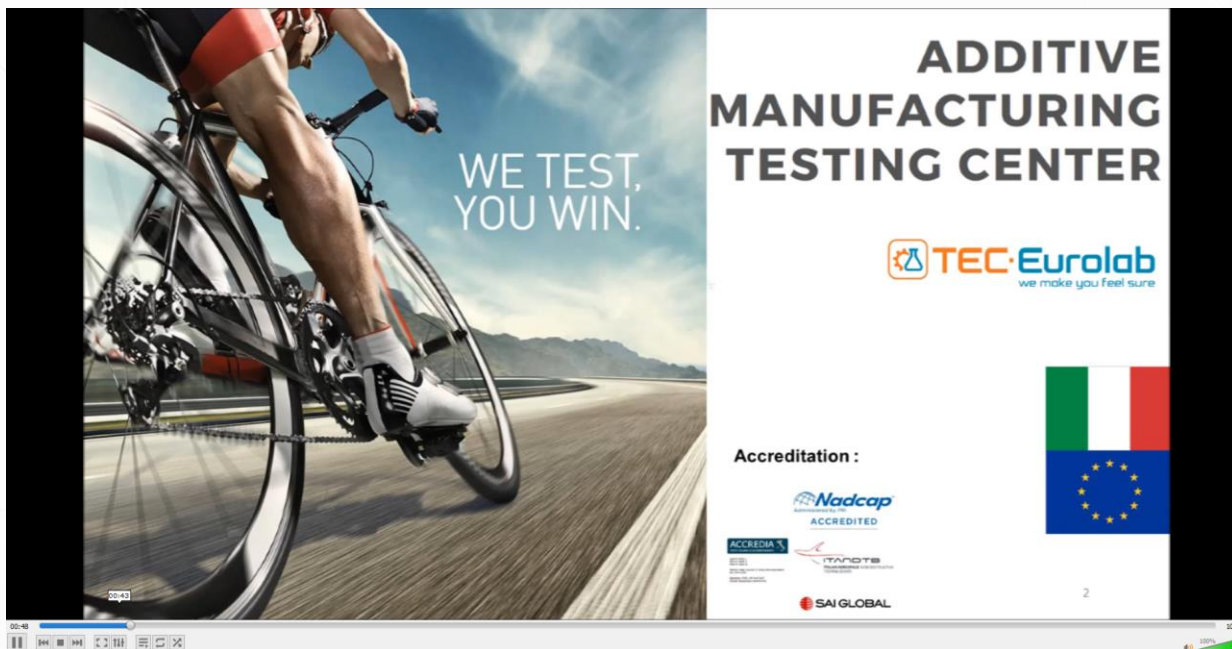
Note: "Buildings construction industry" is the portion (estimated) of overall industry devoted to manufacturing building construction materials such as steel, cement and glass. Indirect emissions are emissions from power generation for electricity and commercial heat. Source: IEA 2021a. All rights reserved. Adapted from "Tracking Clean Energy Progress".



Cement production alone emits more CO<sub>2</sub> than global air travel. Sand and gravel are increasingly scarce resources. 3D powder printing combined with alternative mineral binders and recycled materials from deconstruction offers a solution to the problem.



# AMULET: ATTIVITÀ SVOLTE



- Bilanci 2019-2021
- Bilanci 2019-2021
- Bilancio 2019 EN
- Bilancio 2020 EN
- Bilancio 2021 EN
- 
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- 
- 
- dichiarazione ULA triennio
- SME\_Micro\_Enterprise\_Declaration.doc
- Verbale nomina CFO
- VIES\_VAT verification
- VIES\_VAT verification
- 
- Visura EN
- 
- Visure Linked Company

## CONTATTI

**Ing. Fabio Esposito – R&D Manager**

[esposito@tec-eurolab.com](mailto:esposito@tec-eurolab.com)

## LE NOSTRE SEDI

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Via Grieco, 91 - Campogalliano (MO) Italy

Via Della Resistenza, 7/5- Campogalliano (MO) Italy