







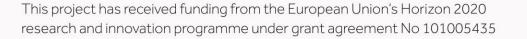






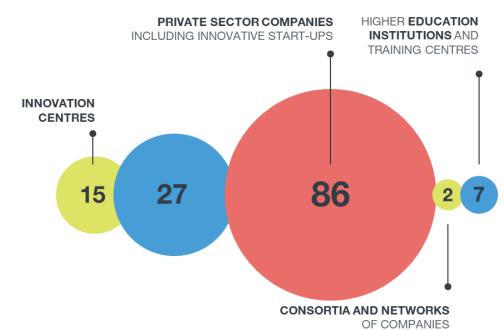
Presentazione seconda Open Call





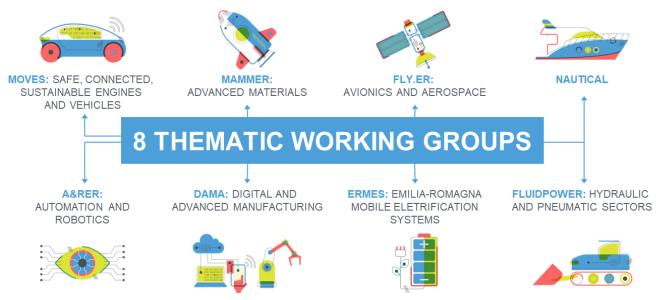


CLUST-ER MECH – AUTOMOTIVE & MANUFACTURING







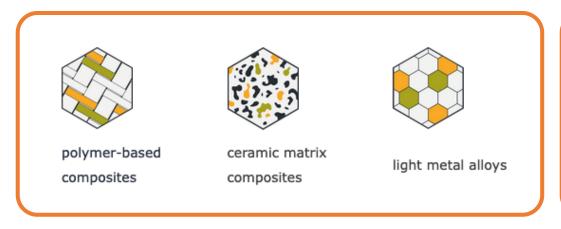


About AMULET

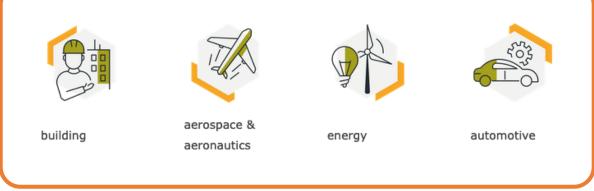


- AMULET builds upon the framework of the INNOSUP-01 programme for H2020, which aims to develop new cross-sectoral industrial value chains by fostering the collaboration & integration of SMEs through the active participation of clusters.
- The ultimate goal of AMULET is to significantly contribute to CO₂ emissions reduction in the EU by boosting the role of SMEs.
- New lightweight value chains are going to be created by fostering the use and penetration of 3 types of materials
 in 4 targeted sectors

The 3 types of materials



The 4 targeted sectors



Partnership



FRANCE



ITALY



GERMANY



South West Hungarian ENGINEERING CLUSTER

HUNGARY



POLAND



ITALY



SPAIN



CZECH REPUBLIK



BELGIUM



POLAND



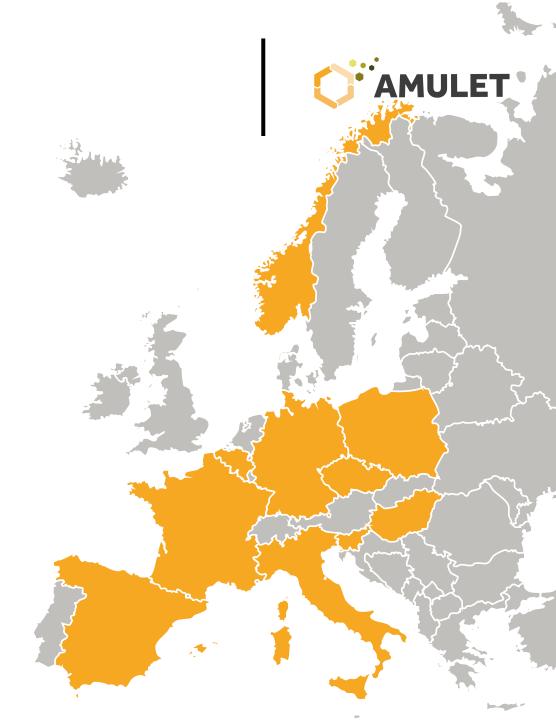
NORWAY



SPAIN



SLOVENIA



About AMULET





FINANCIAL SUPPORT

THEMATIC CHALLENGE COMPETITIONS

NON FINANCIAL SUPPORT









THEMATIC CHALLENGE COMPETITIONS



1st Open Call - Results







Industrial Challenges



The ultimate goal of AMULET is to significantly contribute to CO2 emissions reduction in the EU by boosting the role of SMEs.

In order to consolidate new lightweight industrial value chains in







AEROSPACE & AERONAUTICS



ENERGY



AUTOMOTIVE

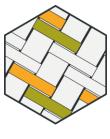
AMULET will identify current sectoral challenges per type of advanced material



LIGHT METAL ALLOYS



CERAMIC MATRIX
COMPOSITES



POLYMER-BASED COMPOSITES

Industrial Challenges – 2° Open Call



Consult the list of challenges

		Fiber-reiforced polymers	Ceramic matrix composites	Light metal alloys
Aerospace & Aeronautics		8	2	2
Energy		5	2	2
Automotive	The state of the s	6	1	2
Building		1	2	1

2nd Open Call

- SME consortia consisting of 2 or 3 SMEs
- Funding instrument includes a lump-sum grant of up to 120,000€ per project (60k€ per SME)
- **Up to 7 SME consortia** will complete the full program (all 3 stages)
- Duration of the full program 15 months
- The proposals aiming to reach Technology Readiness Level (TRL) 7, starting from TRL 4-5.
- Applications should address (exactly) one of the Open Challenges

Thematic competitions



2nd Open Call:

10th of January – 22nd of March

	APPLICATIONS		FEASIBILITY STUDY		DEMONSTRATION	F	OLLOW UP SUPPORT FOR INNOVATION
0	3 online matchmaking events	<u>(i)</u>	Up to 25 consortia move forward to submit a feasibility study	(1)	Up to 7 consortia move forward to demonstrate their solutions	(1)	A more customized and tailored educational program will be made available to the best up
Fo	Open: 10th January – 22nd March 2023	(3)	Duration: 4 months	(3)	Duration: 9 months		to 7 SME consortia
	36 challenges		10 pages			(3)	Duration: 2 months
\Diamond	Aprox. 36 solutions invited to the Jury Day online	\Diamond	€23,000 (per consortia)	\Diamond	€80,000 (per consortia)	\Diamond	€17,000 (per consortia)

Stage 1

Feasibility study

 Output: Proof of concept - detailed plan for demonstration (Stage 2) and exploitation (Stage 3) as well as the updated project-specific technical and business indicators (document <10 pages)

Activities:

- preliminary analyses to develop the solution,
- solution description,
- market analysis and impact,
- organisational structure (e.g. requirements, resources needed),
- preparation of timeline and financial projections.

Stage 2

Demonstration

 Output: Physical prototype(s) and results from the validation (report)

Activities:

- manufacturing of prototype parts and components,
- characterization, simulation and modelling,
- prototype integration into system,
- technical testing,
- verification of the solution.

Stage 3

Follow up support for innovation

- Output: Exploitation plan: dedicated studies ensuring a successful exploitation (report, supporting documents)
- Outsourcing these activities to external experts & companies (more than 50% of the Stage 3 budget).

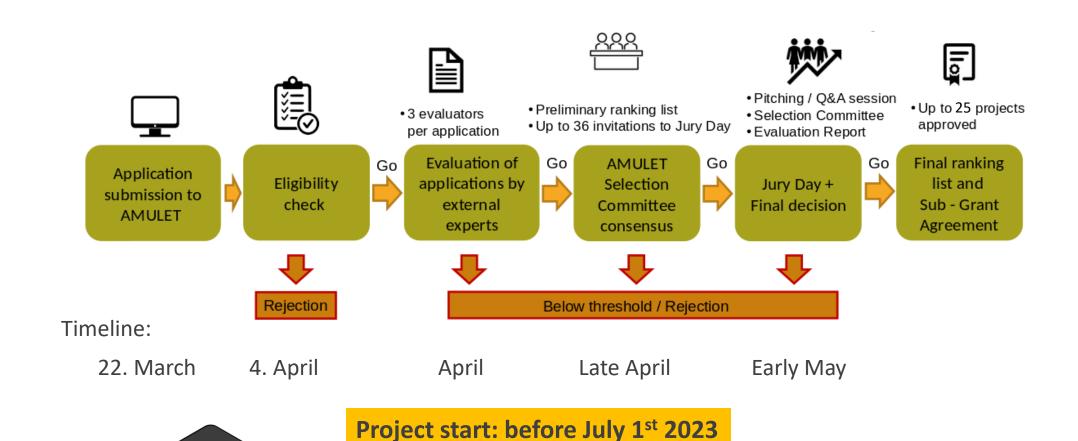
Activities:

- marketing strategy, IPR and dedicated studies in the targeted domains (sector, material),
- effort-intensive analysis (technology scouting and surveillance),
- foresight studies and scenario planning,
- tailored market studies including competitive analysis.

Evaluation process

- from application to stage 1

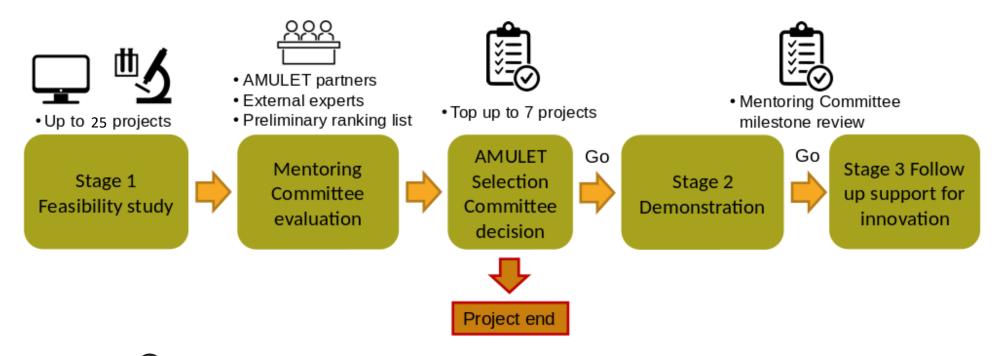




AMULET support program – from stage 1 to stage 3



3 stages, Milestone Reviews to proceed to next stage





How to proceed?



1. Consult the Industrial Challenges – AT THIS LINK

AEROSPACE & AERONAUTICS

Polymer-based composites

1_A&A_PBC_LightAIRCRAFT

Title: Wet lay-up/vacuum bag process optimization for lightweight aircraft structures

Challenge summary

Wet lay-up/vacuum bag process optimization for lightweight aircraft structures, comparing different carbon fiber fabrics and core materials regarding weight and mechanical properties.

Scope of the challenge

 Production optimization of carbon fiber reinforced epoxy parts for light-weight aircraft by wet lay-up/vacuum bag process to achieve maximal mechanical performance (tensile-, compressive-, flexural strength, modulus etc.)

Objectives of the challenge

- Objective 1: Producing test panels (monolithic and sandwich) for mechanical testing with wet lay-up technology, materials to be used:
 - 200 gsm carbon fiber woven fabric (aero grade)
 - 160 gsm carbon fiber woven fabric (aero grade)
 - 200 gsm carbon fiber biaxial non-woven fabric
 - 80 gsm UD carbon fiber fabric
 - 300 gsm UD carbon fiber fabric
 - Airex C-70 PVC foam (or equivalent) with 5 mm thickness
 - AHC-Hex-48 aramid paper honeycomb, 48 kg/m3 3,2 mm cell size, 8 mm

How to proceed?





1. Consult the Industrial Challenges – <u>AT THIS LINK</u>



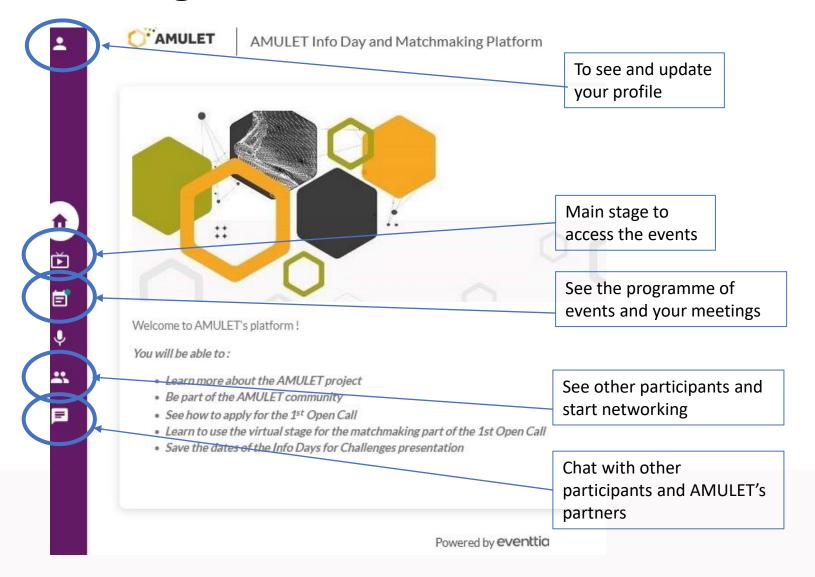
- 2. Need to find an international partner? Register for the next matchmaking event on the Eventtia platform
 - 1. Registration on this link: https://live.eventtia.com/en/abd1
 - 2. Once the registration has been approved, go to the virtual stage: https://virtual-stage.eventtia.com/en/abd1/home

NEXT MATCHMAKING EVENT IS SCHEDULED FOR

20 FEBRUARY 2023 - 10AM - 12PM

Matchmaking Platform & Events







How to proceed?





1. Consult the Industrial Challenges – <u>AT THIS LINK</u>



2. Need to find an international partner? Register for the next matchmaking event on the Eventtia platform

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3. Want to apply? 1. Submission through AMULET Open Call microsite

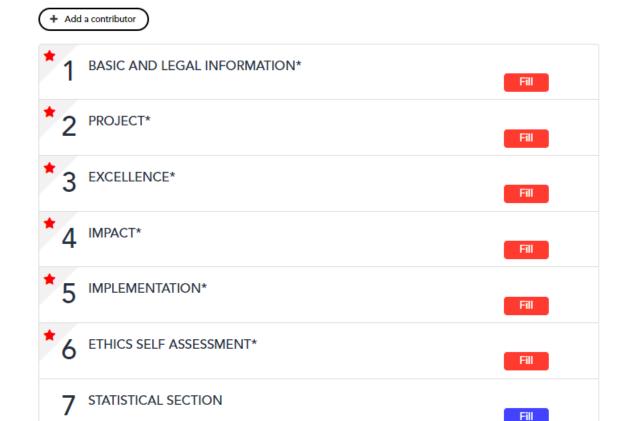
https://amulet-2oc-h2020.fundingbox.com/

- Deadline on 22nd March 2023, 17:00 Brussels Time.
- 3. Proposal must be written in English in all mandatory parts in order to be eligible.
- 4. Multiple submissions: one SME can receive the AMULET grant only once.
- **5.** All mandatory sections of the application form must be filled in.
- **6. Absence of conflict of interest** (you should not be related to AMULET partners)
- 7. Have a European dimension

Application form

DECLARATION OF HONOUR*

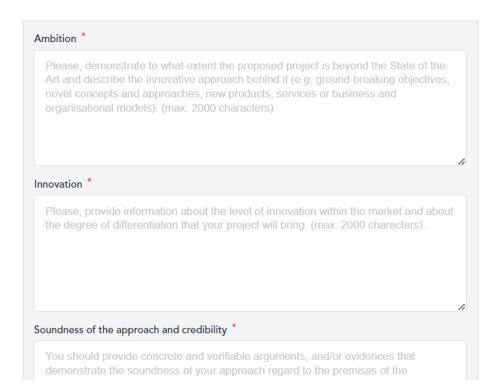
PROCESSING OF PERSONAL DATA*







In this section, you should provide information on the innovation component of the product/service, its differentiation and on the research component in which it leverages. You should also demonstrate the soundness of the idea you're proposing and how collaboration and integration of different innovation actors fits in it. It will be scored by the AMULET evaluators (with a minimum threshold of 3 out of 5 points) with special attention to the ambition of your project and the innovation you're planning to introduce.



How to proceed?





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NON FINANCIAL SUPPORT





Training Support to SMEs



Educational Materials

- Technical related knowledge
- Business/management knowledge

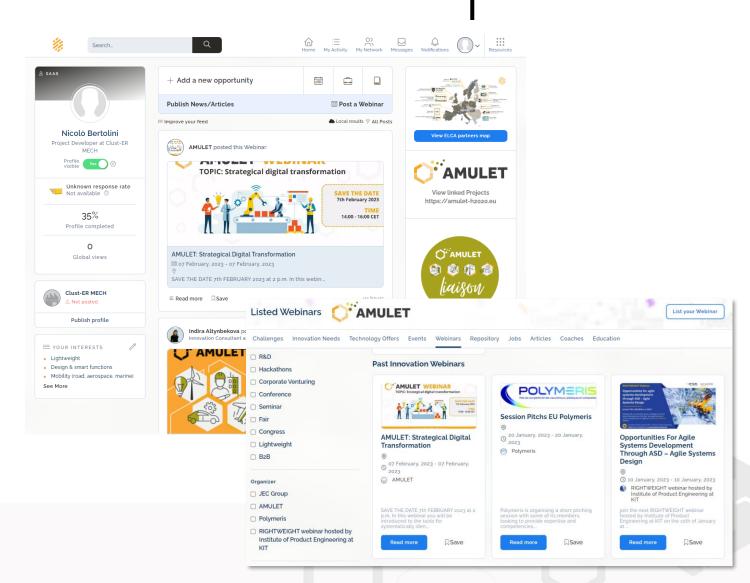
Repository with papers, news articles, tutorials, ...

Announcement of webinars within the topics of AMULET - SMEs in the competition will get priority in participation

All materials and access to coaching services go through

ELCA PLATFORM

https://elca.innogetcloud.com



Educational Support to SME's



Available for all European SMEs – not only for SMEs attending the thematic competitions

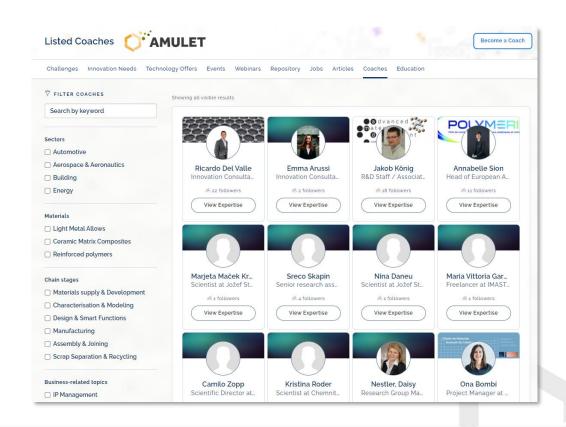
Individual Coaching & Guidance

SMEs can benefit from free coaching service by AMULET experts - each one with different expertise.

Procedure when a request is submitted

- Short intake (written or phone)
- Setting up coaching plan (SME & coach): >5hours
- After completion: evaluation form

Click here for the ELCA Platform



Topics

Technological

AMULET

Materials

Polymer based composites Light Metal Alloys Ceramic Matrix Composites Material Supply & Development
Characterisation & modeling
Design & Smart functions
Manufacturing
Assembly & Joining
Circular Economy

Sectors

Automotive
Aerospace & Aeronautics
Energy
Building

Business/Management

IP Management
Market Research
Internationalisation
Business Planning
Technical Surveillance
Funding

Useful links



- Consult the Industrial Challenges AT THIS LINK
- WANT TO ATTEND A MATCHMAKING EVENT?

Registration on this link: https://live.eventtia.com/en/abd1

Once the registration has been approved, go to the virtual stage:

https://virtual-stage.eventtia.com/en/abd1/home

WANT TO APPLY?

Go to the AMULET Open Call microsite https://amulet-2oc-h2020.fundingbox.com/

Interested in coaching services and/or educational materials?

Register on the ELCA platform https://elca.innogetcloud.com



MAIL





AMULET H2020



AMULET H2020



amulet-h2020.eu



AmuletH2020







This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101005435

AMULET support – Eligible costs



Lump-sum grant provided in each of the stages of the support program to SME beneficiaries (up to 120 k€, max. 60 k€ per SME).

Costs incurred during the lifetime of the AMULET support.

Eligible costs categories:

- personnel costs,
- other direct costs (travelling, consumables, equipment, and costs of other goods and services),
- indirect costs (25% flat rate of the direct eligible costs),
- Subcontracting: includes tasks/services subcontracted to academic and industry experts (allowed in Stages 2&3, max. 30% of total lump sum)

AMULET support – Payments



	STAGE 1: FEASIBILITY PLAN		STAGE 2: DEMONSTRATION		STAGE 3: FOLLOW
	M1- M4 up to 26 consortia		M5-M13 up to 7 consortia		UP SUPPORT FOR INNOVATION
					M14-M15
					up to 7 consortia
How much?	40% - up to	60%- up to	40%- up to	60%- up to	100%- up to 17,000€
	9,200€	13,800€	32,000€	48,000€	
Payment due?	Month 1	Month 4	Month 7	Month 13	Month 15
Requirements?	signature of	validation of	validation of	successful	successful conclusion
	the Sub-	the	the	conclusion	and validation of the
	Grant	Deliverable(s)	Deliverable	and	Deliverable
	Agreement	established	established	validation of	established for this
		for this stage	for mid-term	the	stage (i.e.
		(i.e. 'Proof of	stage (i.e.	Deliverable	'Exploitation Plan').
		Concept	'Validation of	stabilised for	
		[PoC]' and	Results '	this stage (i.e.	
		'Business		'Prototype'	
		Plan'.			