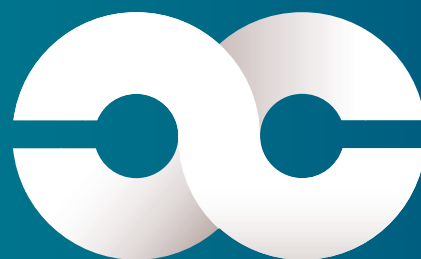




## The Open Call



**LIGHTCOCE**  
INNOVATE TOGETHER

## Contents

**This is the sixth edition of the newsletter related to the LightCoce Project. This issue is dedicated to an overview of the LightCoce Spin-off Company, focusing on the ecosystem, the value chain, and the pilot-scale facilities. Moreover, the last news will be presented.**

- [The Spin-off Company](#)
- [Breaking News](#)
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*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 814632.*

LightCoce Newsletter n° 6  
**December 2021**



### What is LightCocce project?

LightCocce is a research project funded by the European Community under the H2020 program, with the aim of creating an ecosystem of business innovation capable of upscaling and testing new multifunctional lightweight materials for SMEs.



### How LightCocce helps you overcome complex standards and regulations?

Standardization and regulatory compliance are key issues for further exploitation and commercialization of innovations. Testing will be in alignment with international standards (CEN, ISO, ASTM, etc.) and regulatory framework aiming to develop products towards EU standards.



### Which is the target market of LightCocce?

LightCocce can address different types of customers such as: Banks, Funds / Investors, Incubators / Accelerators Public Bodies and Owners of Infrastructures Research Institutes / Universities, Large Enterprises, SMEs, Startup / New Ventures Industrial Associations or GroupsRaw Materials Providers.



### Do you need to innovate your business?

Innovation services are open access under specific fees to all parties, such as: development of business model, marketability assessment, suggesting technology to enable your value proposition or embodying it in a product / service in favour of the user, ensuring the proper protection of the IP developed and identifying the funding opportunitiesat local or EU scale.



### Can large-scale modeling help you evaluate new opportunities?

The Modeling Group focuses on process modeling and simulation through the development of holistic models of processes through multi-scale modeling of materials and unitary operations. Moreover, predictive modeling at different levels will be implemented to generate a chain of models that leadto full-scale simulation of real structures, to evaluate the overall performance of solutions at a global level.



### Which professionals can benefit from LightCocce services?

The relevant reference markets are different, such as: Constructions Industry, Bricks and Tiles Industry, Aerospace Industry, Automotive Industry, Defense Industry.

# LightCocce Spin-off Company

The **spinoff LightCocce OITB** has been recently established in the framework of the EU-funded project LightCocce coordinated by NTUA.

The purpose of the spin-off is to create an **open-access business ecosystem** that will offer **specialized services** in the fields of **concrete and ceramic** materials for the construction, automotive, and aerospace industry.

The spin-off mission is to become a **one-stop provider** of holistic services for the development of novel concepts related to lightweight concrete, conventional and advanced ceramics, covering the **whole value chain** from the upscaling of new products, materials, or technology, to the commercialization.

More analytically, the development upscaling and testing services are provided by **5 pilot-scale facilities** that can produce materials on a scale closer to the industrial one, working to cover the gap between laboratory development and full-scale production.

If a company has concluded the upscale trial on a new product and wishes to investigate the potential of industrial production then it is important to conduct trials on a larger scale in order to access the upscaling potential, to identify possible problems related to the scale effect, and to find all the parameters for the real scale production.

The company aspires to become a **single-entry point** for its clients. In fact, apart from the pilot-scale services, it offers all complementary services required to support the commercialization of these materials, such as characterization, process modelling, quality assurance, monitoring, standardization, safety, market uptake, and innovation management.

LightCocce vision is to support the needs of industry and especially the small and medium enterprises which do not have the resources and infrastructures needed for research and to become a pan-European access point for services' delivery and innovation for the industries under concern.

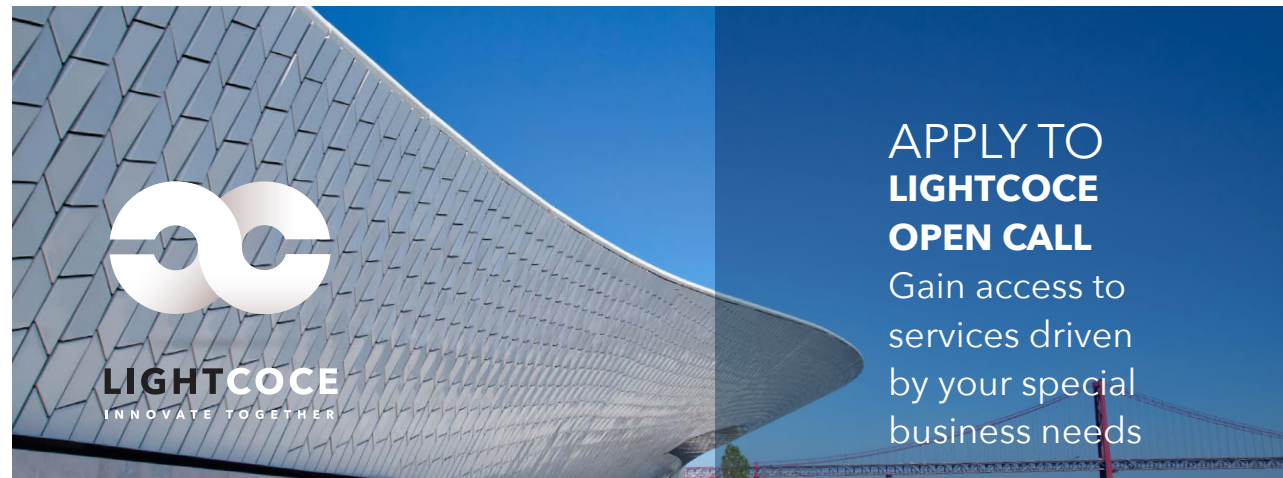
### LightCocce Spin-off on YouTube

Follow the LightCocce Spin-off on:

- LinkedIn
- Facebook

# Breaking News

## LightCoce Open Call – Get on board



### Take part into the LightCoce Open call!

Are Lightweight Ceramics or Concrete an essential part of your business?

Are you interested in developing a novel business idea within the lightweight materials' value chain, free of charge?

Gain access to services driven by your special business needs.

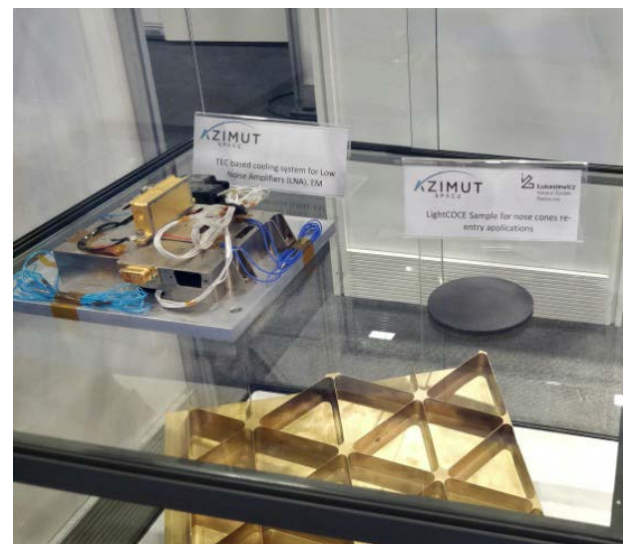
### Follow our Open Call

<https://lightcoce.com/open-call/>

## LightCoce at Space Tech Expo 2021 Bremen (Germany)

**Space Tech Expo** is the leading event in Europe for space technology. In 2019, it brought more than 400 exhibitors and 5,000 experts from all over the world to Bremen, a city that is one of the space centres in Germany and Europe. From now on the B2B event for the space industry has been held annually.

In the November 2021 edition, **Azimut Space GmbH** exhibited the recent successes in developing re-usable, high temperature (2000°C) materials for thermal protection of re-entry vehicles.



## LightCoce at the UniSMART Community Social Event

The 2nd of December, 2021 the LightCoce Open call has been presented to the **UniSMART Community** dinner. The annual event that brings together more than two hundred Italian companies from the innovating ecosystem of the **University of Padova**.

The event has been an incredible opportunity to disseminate the LightCoce open innovation and to engage new companies in our value chain.





# Welcome to LightCoce partners 4 / 26 - sixth group



## AZIMUT SPACE GMBH

Azimut Space GmbH is a Space Engineering company with more than 14 years of experience in thermo-mechanical engineering and in the development of payloads and subsystems.

The company, founded in 2007 primarily as a thermal engineering company, has expanded its portfolio over the years, and now offers complete thermal solutions, thermal engineering services, thermal hardware as well as development of instruments and subsystems.

### Contact info:

[www.azimutspace.com](http://www.azimutspace.com)  
[info@azimutspace.com](mailto:info@azimutspace.com)



## STAM

Stam is a private engineering company, based in Genoa, Italy. The main mission of the company is to provide engineering services to industries. Since its establishment in 1997, the company has been specializing in design and development of high-tech solutions, based on conventional and non-conventional robotics and mechatronics.

Stam invests a significant part of its turnover in R&D thus providing their customers with most qualified and edging competencies to drive development based on availability and affordability of technological trends. Innovation, research and development are the core competencies of Stam.

### Contact info:

[www.stamtech.com](http://www.stamtech.com)  
[stam@stamtech.com](mailto:stam@stamtech.com)



## SUSTAINABLE INNOVATIONS EUROPE

Sustainable Innovations Europe is a Spanish engineering SME whose technical team has more than 10 years of experience in European research collaborative projects. The company main goal is to fill the gap between research activities and market implementation, that's to say turning sustainable ideas into profitable and environmentally friendly business models. SIE expertise lies on research to market, business strategies and sustainable communication methods, helping organizations promote their innovations under a sustainable and circular economy thinking method. The core competencies offered by SIE, which are associated with the connection between research activities, are structured in four main pillars; Research2Market, Business Strategy, Communication and Training, that can be summarized on the knowledge in legal and economic barriers for the market uptake combined with the dissemination & communication of new technologies at European and International level.

### Contact info:

[www.sustainableinnovations.eu](http://www.sustainableinnovations.eu)  
[info@sustainableinnovations.eu](mailto:info@sustainableinnovations.eu)



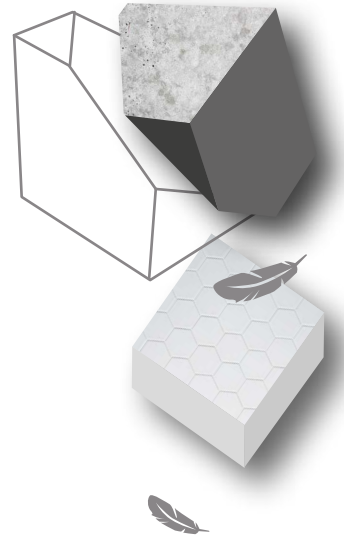
## TECHNICAL UNIVERSITY OF NUREMBERG

Technical University of Nuremberg (THN); Faculty of Materials Engineering: The THN currently has over 13,500 students in 12 faculties. THN is very active in research and has the highest third-party funding of all Bavarian universities. An interdisciplinary and application-oriented cooperation with industrial partners and associations takes place in around 100 well-equipped laboratories at the university. Since 1973 when, THN was funded, the knowledge of the bricks and their properties as well as the associated production processes have been passed on to the students in the Faculty of Materials Technology. Energy Campus Nuremberg (EnCN): THN has been a partner of the Energie Campus Nuremberg (EnCN) since 2011. EnCN is working on realizing the vision of a sustainable energy industry based on renewable energies. It is a new research platform for the development and demonstration of a closed renewable energy chain from energy generation, storage/transport to the efficient use of energy.

### Contact info:

[www.th-nuernberg.de](http://www.th-nuernberg.de)  
[info@th-nuernberg.de](mailto:info@th-nuernberg.de)

# Inspiration



**“The best way to predict the future  
is to create it.”**

Alan Kay

# Connect with us!

Are you eager to know more  
about the state of the art of lightweight  
concrete and ceramics?

Are you a professional or a company  
providing services that LightCoce  
might need?

Are you an expert in the field  
of lightweight materials?

Contact us to share your  
feedbacks and ideas  
on this page:  
[info@lightcoce-oitb.eu](mailto:info@lightcoce-oitb.eu)



[www.lightcoce-oitb.eu](http://www.lightcoce-oitb.eu)



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LightCoce Project

Project Coordinator:

Maria Taxiarchou  
taxiarh@metal.ntua.gr



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