- **Project : Additive Manufacturing of Lime-based Mortars for Architectural Heritage.**

LIM3PRINT
A WAY TO RESTORE

- **Company: TESELA, MATERIALS INNOVATION AND HERITAGE S.L.**
- **Country: SPAIN**
- **Sector: Professional, scientific, and technical activities**
- **Partners: CETIM Technological centre (A Coruña, Galicia, Spain)**
- **Contacts: Gaspar Carrasco-Huertas, Ph.D. (Project Manager)**

CREATHRIV-EU Project GA:101074265

Co-funded by the European Union

# ABOUT TESELA (COORDINATOR)

- Technology-Based Company SME
- Since 2015
- Padul, Granada, Spain.
- Born as SPIN-OFF (Granada University)

TESELA™
materiales | innovación | patrimonio

# HEADQUARTERS

SUSTAINABLE CONSTRUCTION CLUSTER OF ANDALUSIA
- PADUL -


GRANADA UNIVERSITY.
SCIENCE FACULTY
- GRANADA -

# MAIN TEAM FOR LIM3PRINT

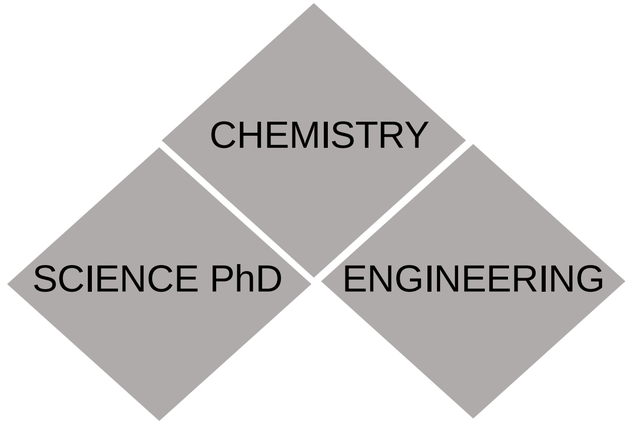
**Eugenio Navarro**
CEO

**Gaspar Carrasco-Huertas, PhD**
R&D Project Manager

**Gabriela Tarifa**
R&D Researcher

**Miriam Alguacil**
R&D Technician

# MEMBERS BACKGROUND

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# ABOUT CETIM (SERVICE PROVIDER)

- Private non-profit Technology Centre located in A Coruña (Galicia, Spain).
- Promote R&D in different economic sectors.
- Expertise area: Sustainable Building Materials & development of adv. construction materials.
- Role in the project: Optimization of formulation developed to make it suitable to be 3D printed at laboratory scale.

Technological Centre

# HEADQUARTERS

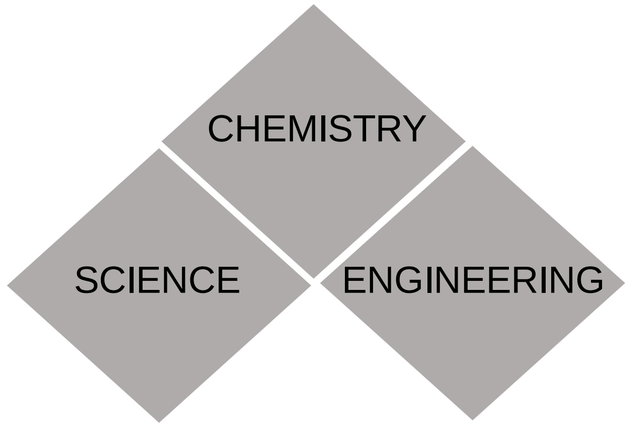
A Coruña
- GALICIA, Spain-

# MAIN TEAM FOR LIM3PRINT

**M. Alberto Miguéns Blanco**
Lead Researcher of Sustainable Building Materials

**Cintia Pérez Battistessa**
Researcher of Sustainable Building Materials

# MEMBERS BACKGROUND

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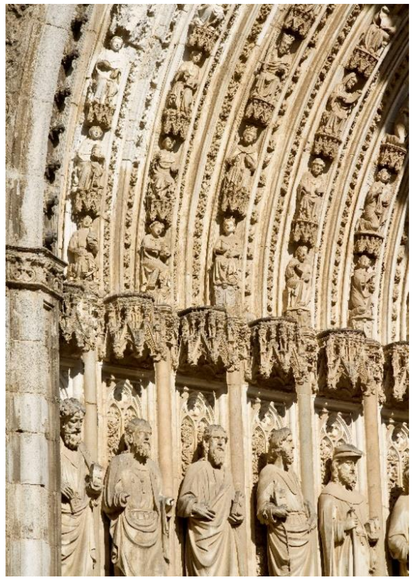
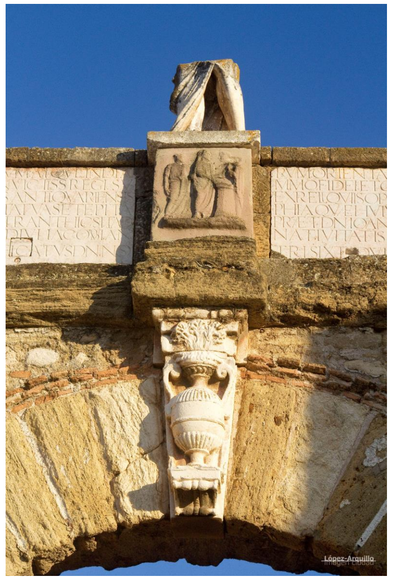
CreaThriv-EU
EuroCluster CCIs

# THE CHALLENGE:

**Expand the potential of a new generation of lime-mortars materials in a 3D additive manufacturing (AM) process in a similar way to 3D Concrete Printing for repairing Historical Heritage Singular Artifacts.**

## THE SOLUTION

Develop mortars based on hydraulic lime-mortar materials currently used in heritage applications in combination with new binders, additives, and 3D printing process.

*Left: Building materials 3D printer to be used in the project.*
*Mid: Jamb statues. Santiago de Compostela cathedral (Spain)*
*Left: Damaged heritage artifact*

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# IMPORTANCE FOR THE BUILDING & CRAFT SECTOR

- Increase the knowledge-based economy and at the same time, it will increase European innovation-based assets.
- Improve the existing repairing solutions for built heritage using lime-based mortars and 3D printing approaches.

# IMPORTANCE FOR TESELA

- Accelerate European expansion and internationalization process, growth and employment generation.
- Opportunity for Europe towards the adoption of a new green economy model through the integration of the additive manufacturing in craft sectors dedicated to restoring built heritage.