



TRL Evaluation and Validation

TECHNOLOGY MATURITY ASSESSMENT AND ROADMAP FOR SCALING AND TRANSFER

KEY WORDS

TECHNOLOGICAL MATURITY,
TECHNOLOGICAL VALIDATION,
SCALING UP

DESCRIPTION

The Laboratory for Exploration in Environmental Architectural Materials (LEMAA) develops a service for studying and validating the Technology Readiness Level (TRL) of technologies, materials, and products, with an emphasis on solutions based on recycled plastics for architecture, construction, and design. Through the review of technical evidence, analysis of the validation environment, and the consistency between prototypes, tests, and results, the achieved TRL is determined, gaps for advancing to the next stage are identified, and a roadmap is structured for piloting, scaling up, technology transfer, and application for R&D&I funding.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

Gathering and organizing technical evidence (prototypes, tests, documentation); Evaluating TRL according to validation criteria by stage (laboratory / relevant environment / operation); Defining technical gaps and activity plan to increase TRL; Developing a scaling roadmap (piloting, validation and production)

APPLICATIONS

- Maturity assessment for technologies and products under development
- Support for applying for R&D&I funds and progress reports
- Pilot planning and scaling up of solutions with recycled material
- Preparation for technology transfer (licensing, agreements, industrial adoption)
- Prioritizing trials and prototypes to reduce technical risk

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