

Project Idea	Recycled raw materials for Concrete 3D Printing
Organization name, town and country	Faculty of Materials Engineering and Physics, Cracow University of Technology / ATMAT Sp. z o.o. CRACOW, POLAND
Addressed topic(s)	<i>Expertise relevant to multiple topics</i>

Cracow University of Technology

Faculty of Materials Science and Physics

- Active in EU-funded projects and applied research in sustainable construction
- Strong background in knowledge transfer to industry

ATMAT Sp. z o.o.

Advanced Manufacturing & Automation Technologies

- Manufacturer and developer of industrial 3D printers, including custom 3DCP systems
- Experience in mechanical design, robotics, and automation for additive manufacturing



Recycled raw materials for Concrete 3D Printing

The Idea:

We are developing concrete mortars with reduced carbon footprint, optimized for 3D Concrete Printing (3DCP) – an additive technology that builds structures layer-by-layer without traditional formwork. Our mixes use recycled aggregates (e.g., crushed demolition concrete, ceramics), polymer waste and cement substitutes including fly ash and GGBFS.

Why It Will Succeed:

- **Market demand / general interest in** low-carbon construction solutions
- **Use of proven materials** from circular economy sources
- **Advances in 3DCP mix rheology** enable printability with waste materials contents
- **Regulatory push** for sustainable building practices



Competences / type of partners sought

Looking for Partners With:

- Material Science expertise
- Additive Manufacturing background
- Waste Processing companies, powerplants etc.
- Academic or R&D institutions



EU INDTECH 2025 Brokerage Event

Contact details

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