Now

CIRCULOOS

1. Searcle

Workshop presentation

SEARCLE

Project Introduction

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User case definition

In short :

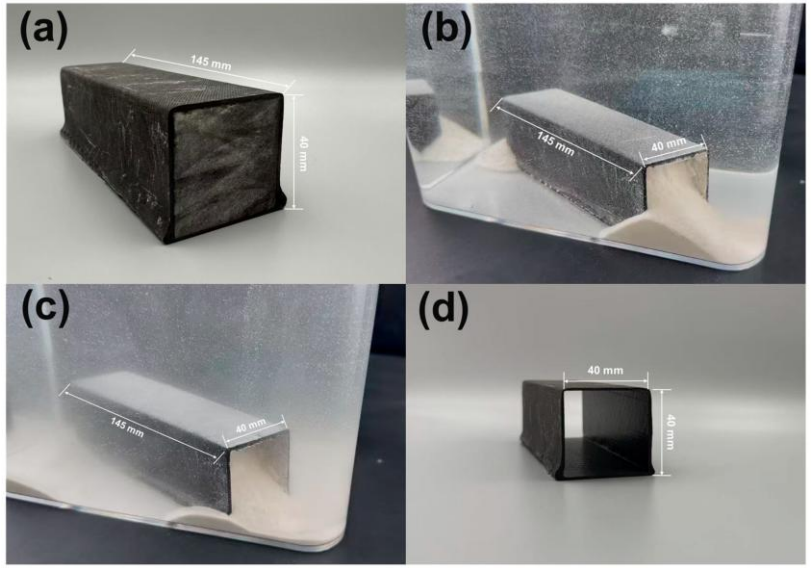
Our product :

Sacrificial Core

Our goal :

3D printed & Water soluble

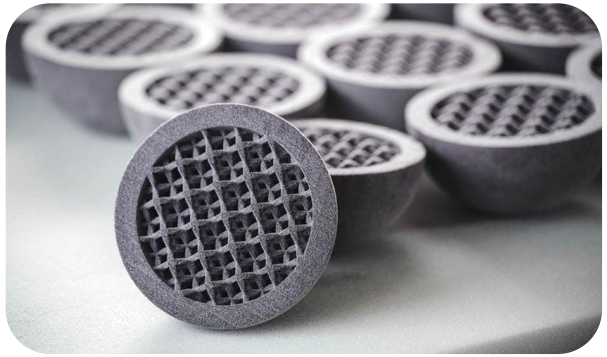


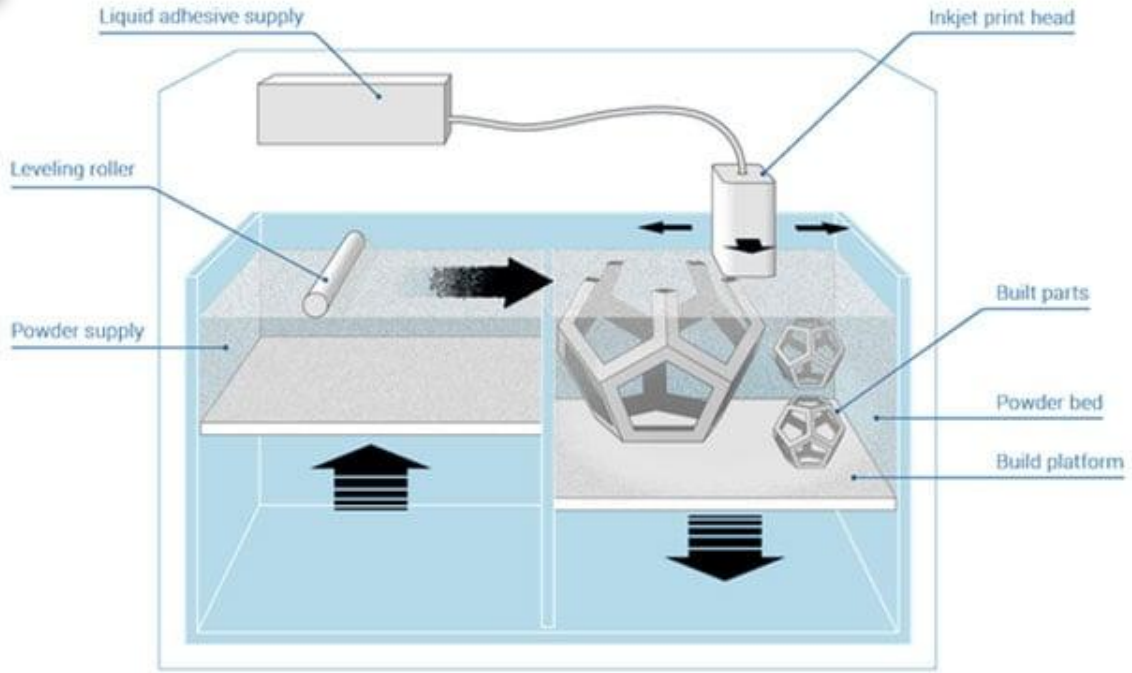




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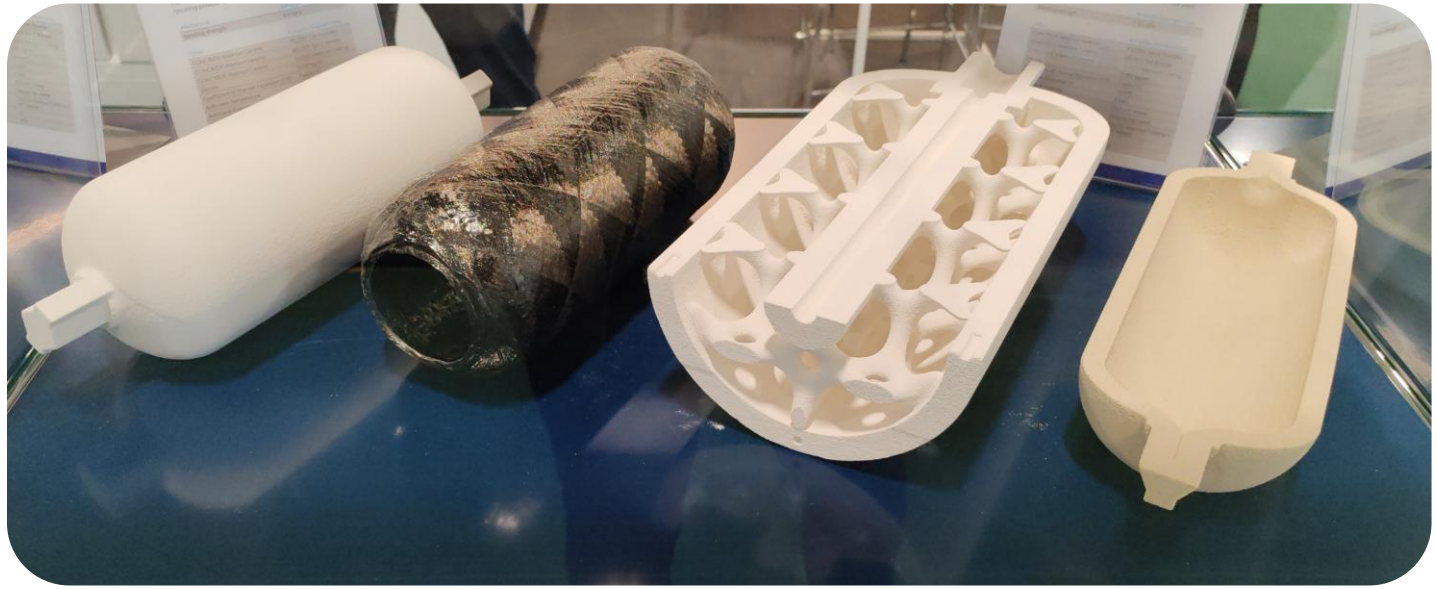




Binder Jetting

- Binder Jetting Unlocks Design Freedom
- More energy efficient
- Simplified process

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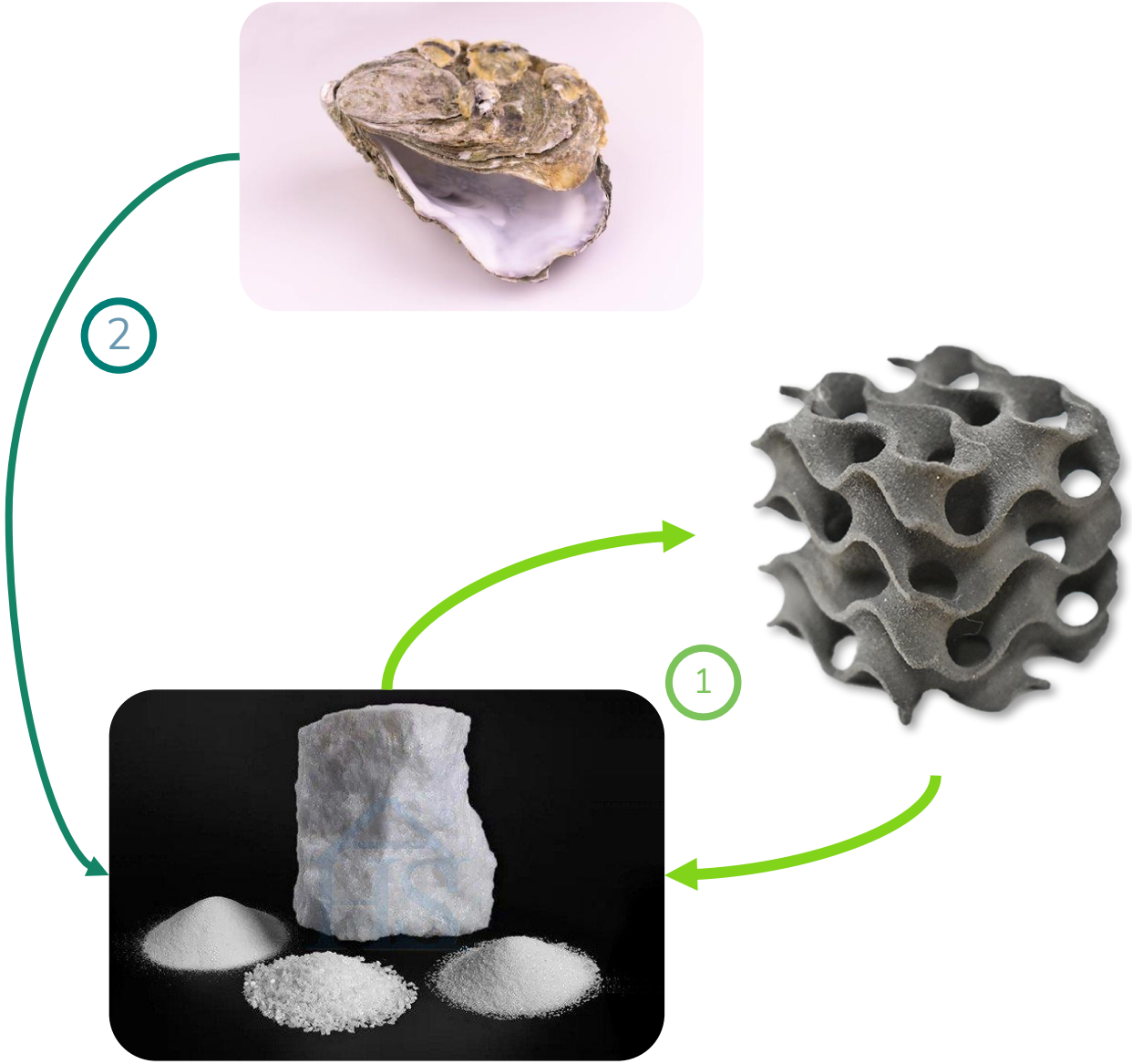
From innovation to circular opportunity

- ✓ Waste based material
- ✓ Low carbon impact
- ✓ Closed-loop material

→ Turning Innovation Adoption into Circular Opportunity



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Circular Economy

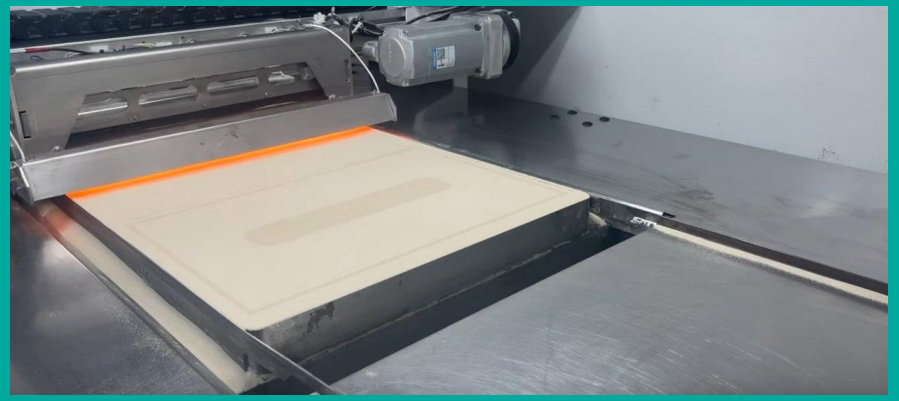
1. Recycling of used soluble molds (up to 80%)
2. Materials formulated from shell waste and alumina

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Printing assessment and demonstrator

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- Results demonstrated at JEC World 2026
- Formulated material tested in CONCR3DE industrial 3D printing machine





Material formulation and performance assessment

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- Material characterization (XRD, FTIR, SEM, TGA...)
- Mechanical assessment (Compression, printability, defects)
- Scientific data stored in **Circuloos Data-Platform** through Searcle Material repository

