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Autonomous Digital Low Carbon Plastic Manufacturing


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ORGANISATION PROFILE

Photocentric Limited, founded in 2002 is a UK-based manufacturer specialising in photopolymer chemistry and additive manufacturing. With a subsidiary in Phoenix, USA the company is profitable, turnsover €15m and has 150 employees, 17% of revenues are devoted to R&D.

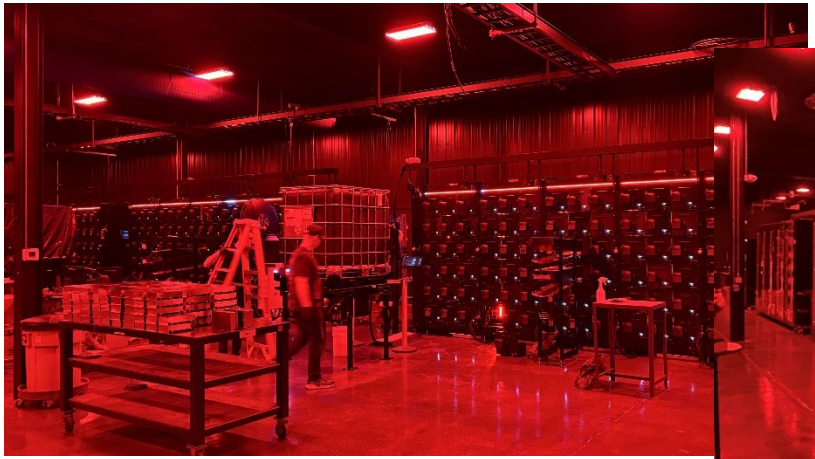
The company was established to commercialise patented technology for pre-packaged photopolymer, revolutionising the stamp-making process. Over the past 24 years Photocentric has evolved into a global leader in the development and manufacture of photopolymer resins and LCD-based 3D printing technology. Innovation is at the core of Photocentric's business.

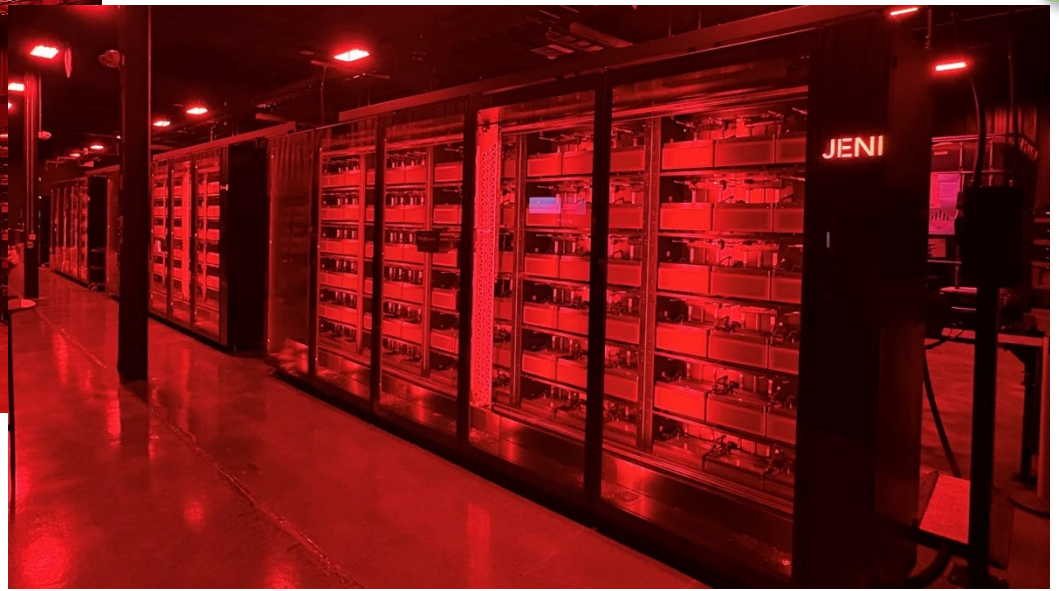
The company has 25 granted patents and has pioneered several industry firsts, including the world's first daylight-activated photopolymer and the first LCD-driven 3D printer.

Photocentric's R&D activities have led to JENI the first fully robotic, automated mass manufacturing machine for making plastic parts, it's like injection moulding but without tooling.

The company also has made the first enclosed chamber 3D printer for printing in space and formed it into a separate business, CosmicMaker. This has successfully made its first parabolic flight and printed ceramic and plastic.

JENI CUSTOMER INSTALLATION





PROPOSAL INTRODUCTION (I)

Vision: To transform manufacturing by removing tooling and making products digitally. Then to make those plastics from bio waste instead of oil.

Motivation: Digital manufacture reduces carbon, lowers transportation, lowers stock holdings, makes products available on demand and can make better products. It can enable products to be made in the West at the same cost as Asia and is the future of manufacturing.

Content: You're looking for partners who can provide interesting applications to apply digital manufacturing to or processes to convert the bio waste so that the plastics can be made in a lower carbon manner. We have started the process making plastic bottle caps in the 10s of millions so most products can be considered viable.

PROPOSAL INTRODUCTION (II)

Expected outcome: We validate a large manufacturing opportunity to provide both cost and carbon savings to European manufacturers on making plastic parts.

Impacts: Detach Europe from Chinese imported plastic oil derived materials or injection moulding tooling

Schedule: We're ready to start now, project lasts 18 months or longer

PARTNERS

Current Photocentric Ltd UK

Partner search: Involved in the creation of plastic for injection moulding or the large volume moulding of plastic parts

CONTACT INFO

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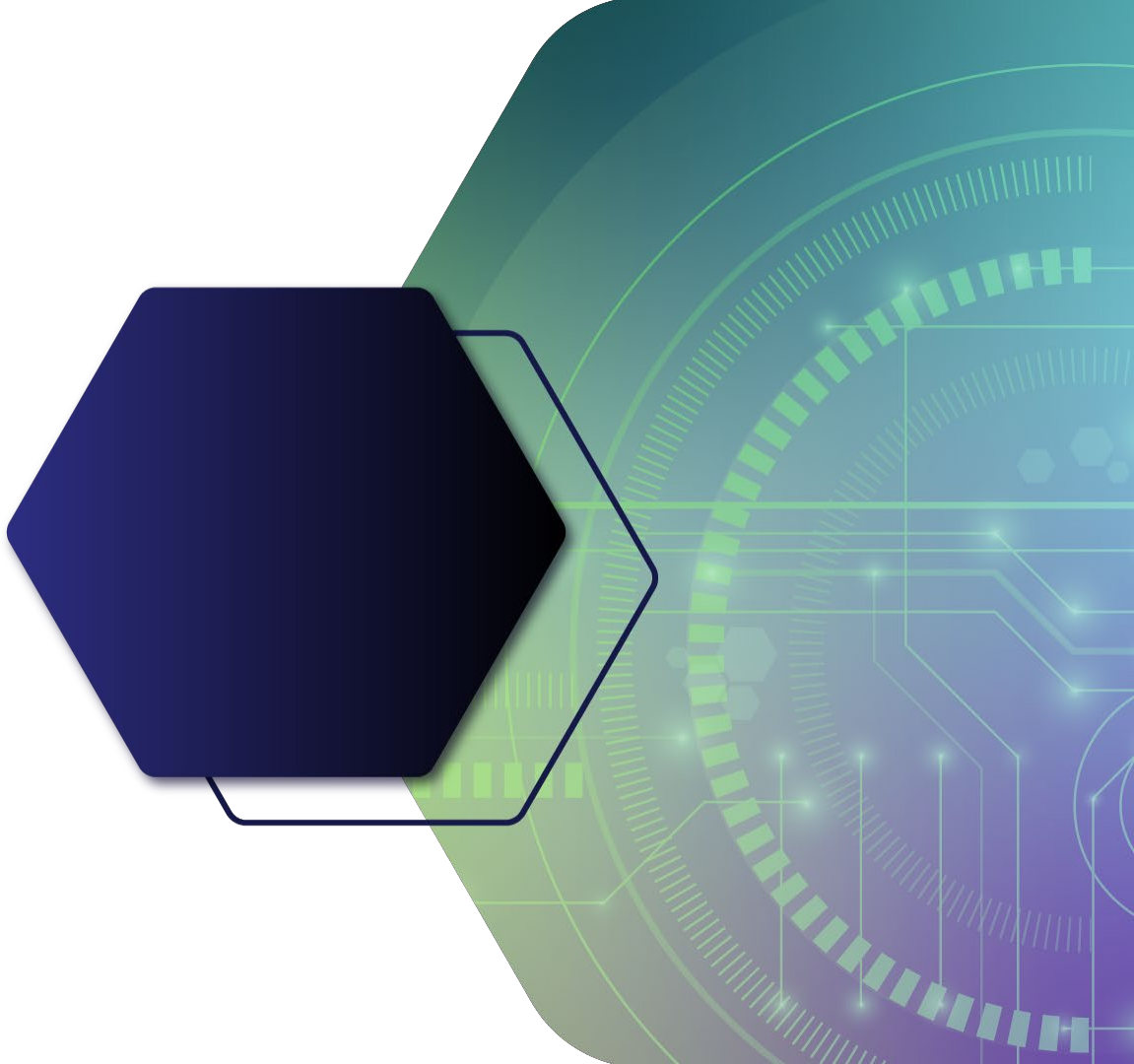

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