

CERAMICS AM KEY DRIVERS FOR THE ADOPTION

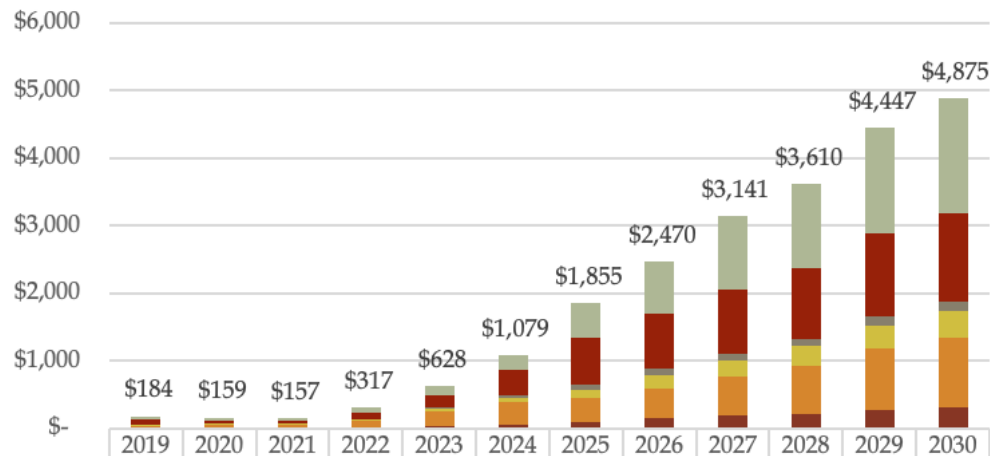
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Ceramics UK Webinar | October 8, 2020

A bright and bold future ahead

SmarTech
ANALYSIS

Total Revenue (\$USM) Opportunity Associated with Ceramics Additive Manufacturing



	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Ceramics AM	\$184	\$159	\$157	\$317	\$628	\$1,079	\$1,855	\$2,470	\$3,141	\$3,610	\$4,447	\$4,875
■ Technical Applications	\$43	\$40	\$37	\$75	\$132	\$206	\$504	\$775	\$1,081	\$1,237	\$1,554	\$1,694
■ Traditional Applications	\$77	\$46	\$44	\$99	\$184	\$383	\$695	\$814	\$954	\$1,041	\$1,226	\$1,296
■ Traditional Materials	\$6	\$5	\$7	\$11	\$17	\$35	\$77	\$91	\$107	\$116	\$140	\$147
■ Technical Materials	\$16	\$14	\$13	\$24	\$42	\$65	\$126	\$189	\$231	\$280	\$337	\$395
■ High-end HW Revenues	\$36	\$48	\$50	\$91	\$210	\$322	\$357	\$447	\$581	\$713	\$912	\$1,027
■ Low-cost HW Revenues	\$5	\$7	\$7	\$18	\$43	\$67	\$95	\$154	\$187	\$224	\$279	\$316

Early adopters are up to 8 years ahead

Industrial



Aerospace and IGT



Medical

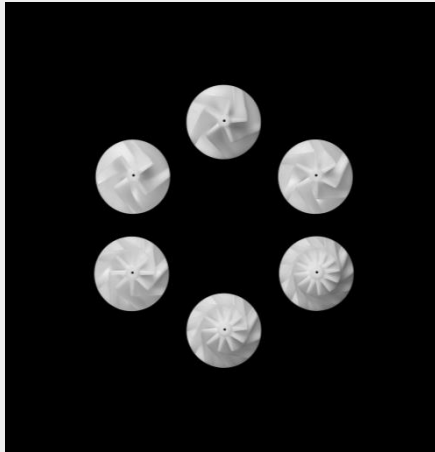


Dental



Accelerate time to market

- **Faster product development**
- Develop **new products** for existing and **new markets**



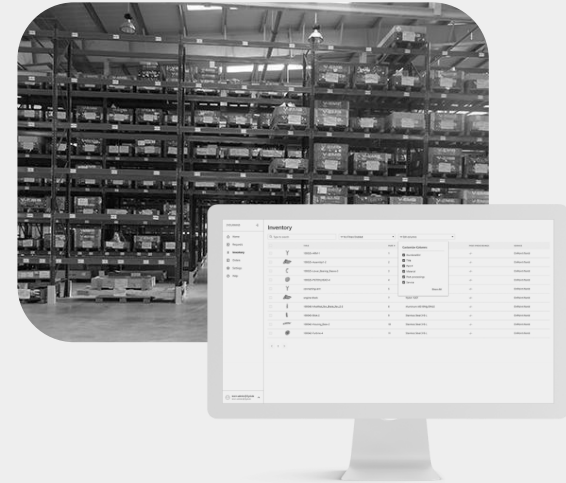
Customization of products

- **Profitable mass customization**



Digital supply chain

- From expensive warehouses to **digital inventories**
- **Supply chain stability** – print anywhere, anytime



A collection of 3D printed parts, including a tablet, a caliper, and various mechanical components, arranged on a technical drawing background. The parts are rendered in a light blue color with soft shadows, suggesting they are physical prototypes. The background features a grid and various technical drawings, including a disassembled device and a tablet. A blue caliper is positioned on the right side of the image, and a tablet is at the bottom right. The overall scene is set against a light blue background with a grid pattern.

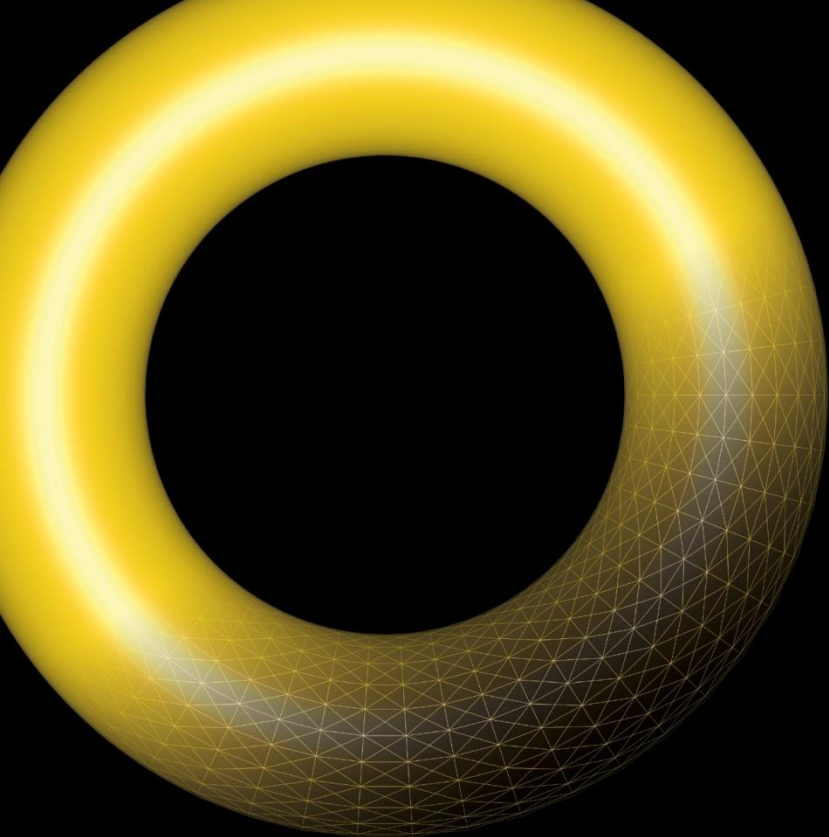
Isn't 3D Printing a Rapid Prototyping technology?

How many parts can be produced in production environment?

- Application: ceramic nozzle
- Dimensions: 6,25 x 6,25 x 15 mm³
- Material: alumina | LithaLox 350

Parts per run	135
Production time per part	< 1 min
Parts per day	1620
Parts per year	215.000 on CeraFab S65
	860.000 on 4xCeraFab S65





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