MADpro

Mass production of digital esthetic prostheses

The Project

Millions of people worldwide require an esthetic prosthesis such as artificial eyes, many more need dental prostheses. These prostheses are manufactured or adjusted in labor intensive processes that require skilled personnel.

We develop a digital, cloud-based, scalable process where the prostheses are designed by a computer using image data and produced with full color 3D-printers. Here we can leverage our 3D printer driver *Cuttlefish* for the best color match as well as our data-driven design software solutions *Cuttlefish:Eye* and later *Cuttlefish:Tooth*.

The digital workflow is licensed to partners with good connections to the target market, who sell the prostheses to ocularist or dentists who have to supply millions of patients.

The Team

Location: Fraunhofer IGD - Darmstadt

Members: Johann Reinhard, Philipp Urban

AHEAD Infos   **Batch:** Sept 22   **Phase:** 2   **Track:** Licensing

The Business Model

Unique Selling Proposition: The digital and automated workflow provides a consistently high quality of the prostheses while saving time and costs.

Unfair Advantage: Proven solution for automatic design of ocular prosthesis matched with best 3D printing color reproduction.

Revenue Model: Revenue share on each sold prosthesis.

Venture Readiness Level

VRL	Ideation	Incubation	Traction	Growth

Technology Readiness Level

TRL	1	2	3	4	5	6	7	8	9

The Side Facts

Customer Focus: B2B

Searching For: - Investors for our project partner Ocupeye
- Pilot customers or users, sales partners, expert interview partners

Industry Tags: healthcare, software & services

Technology Tags: 3D printing, customization, digital healthcare, machine learning, medical devices, personalized treatment