

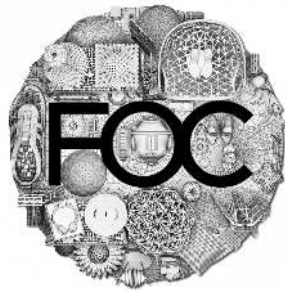
3D or not 3D?

Ilko Bosman

Eindhoven, 20 September 2016

Wie?

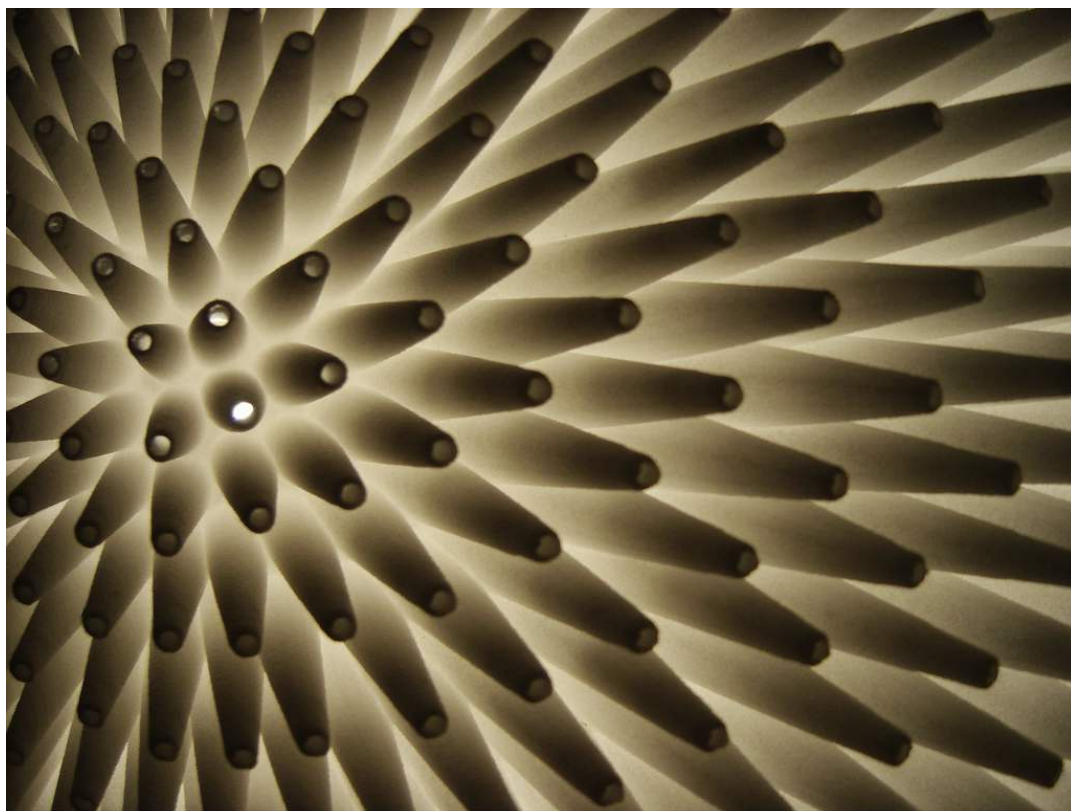
Ilko Bosman – 1978



3DSYSTEMS®

MakerPoint

Wat?

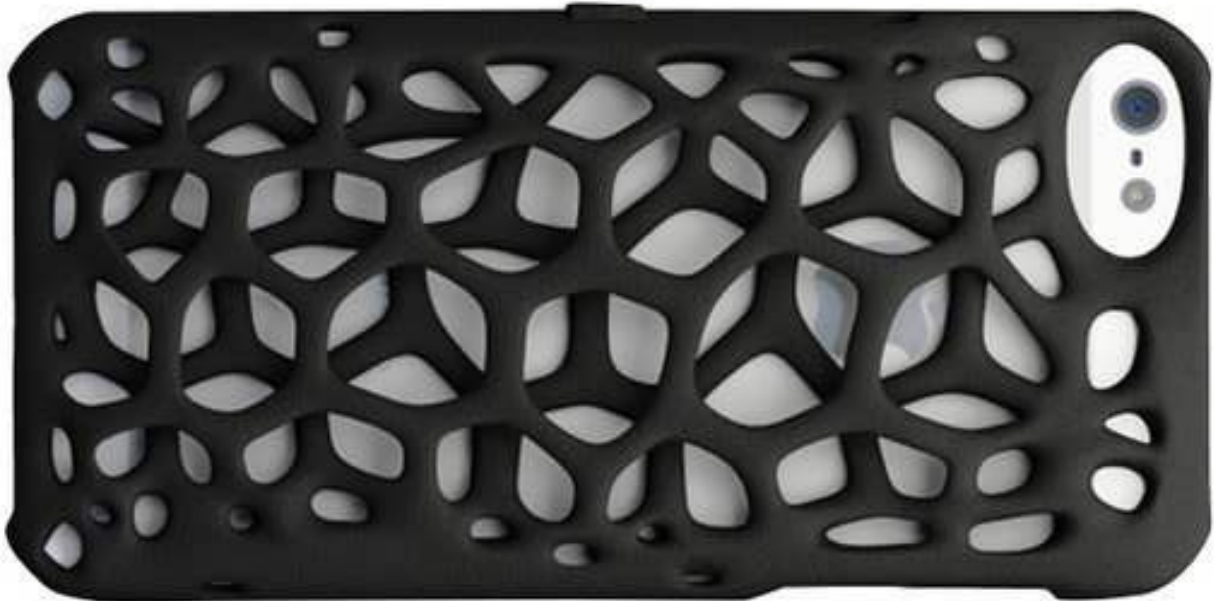


1597 BY JANNE KYTTANEN ©FOC 2005



Photo: Anja Jahn

Wat?



...en waar brengt je dat?

Mark Vaes
Hoofd technologie

Jonas Wintermans
Oprichter & Coo

Daan Kersten
Oprichter & Ceo

Iko Bosman
Hoofd finance & IT

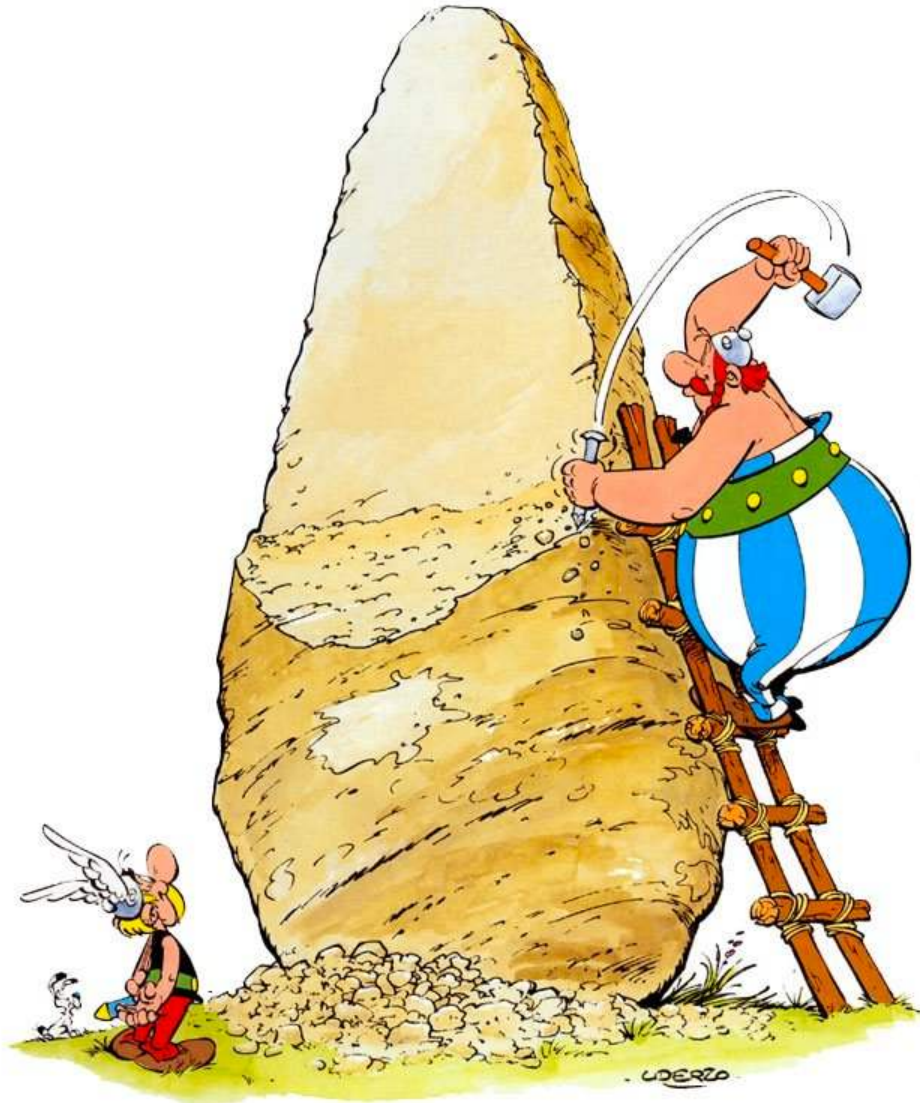
Remco Pennings
Hoofd partnerships



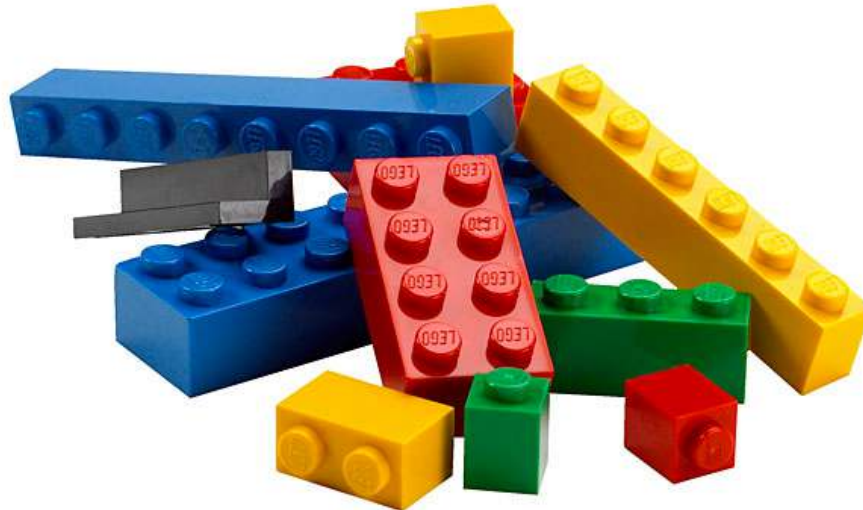
Additive Industries
Industrialising 3D printing for functional parts

De 3D-musketers

3D printen...niet zo heel nieuw



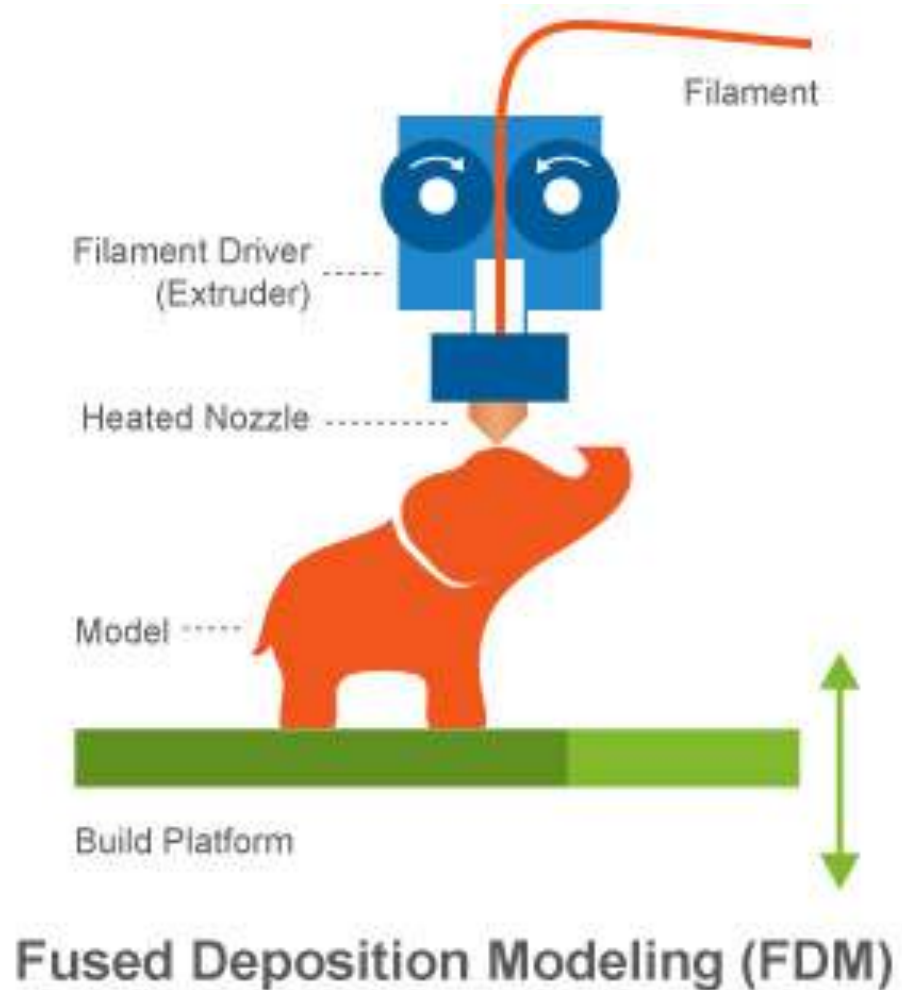
En dichterbij dan je denkt...



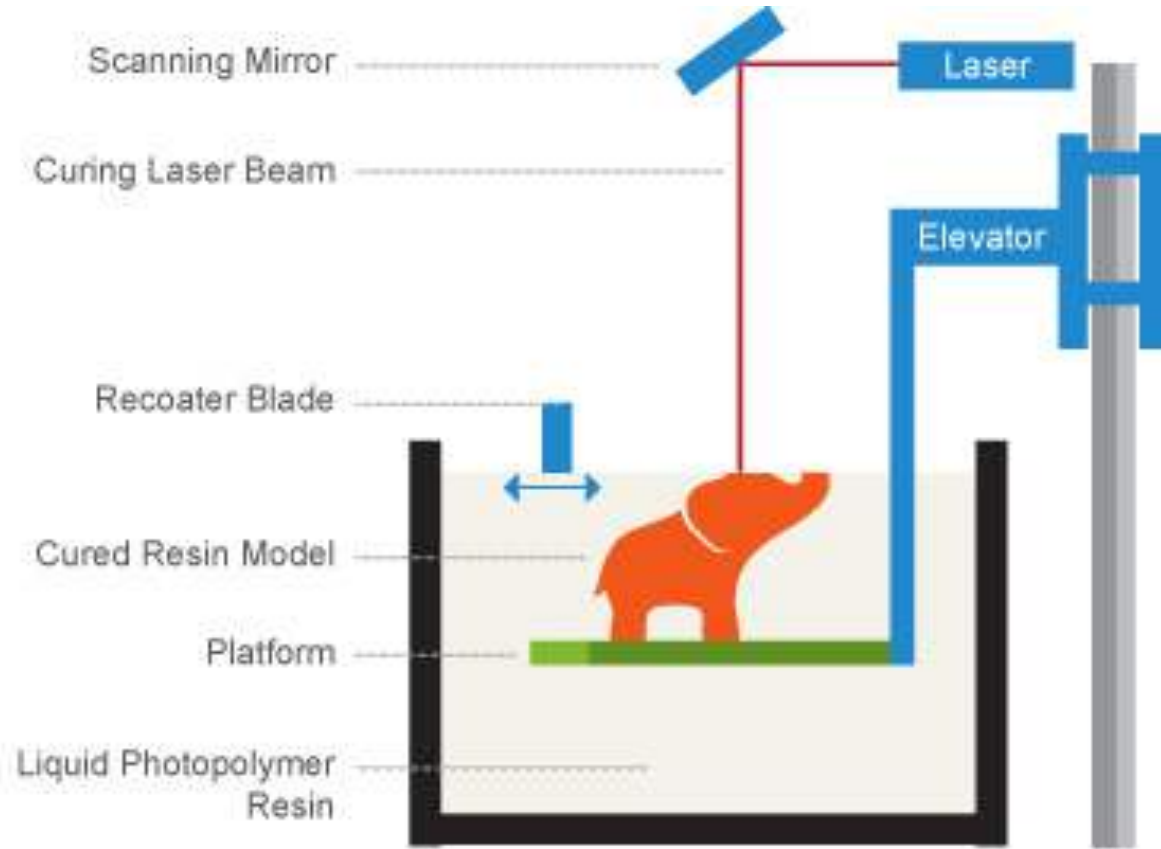
Toekomstmuziek? Denk even terug...



3D printing is een verzamelterm



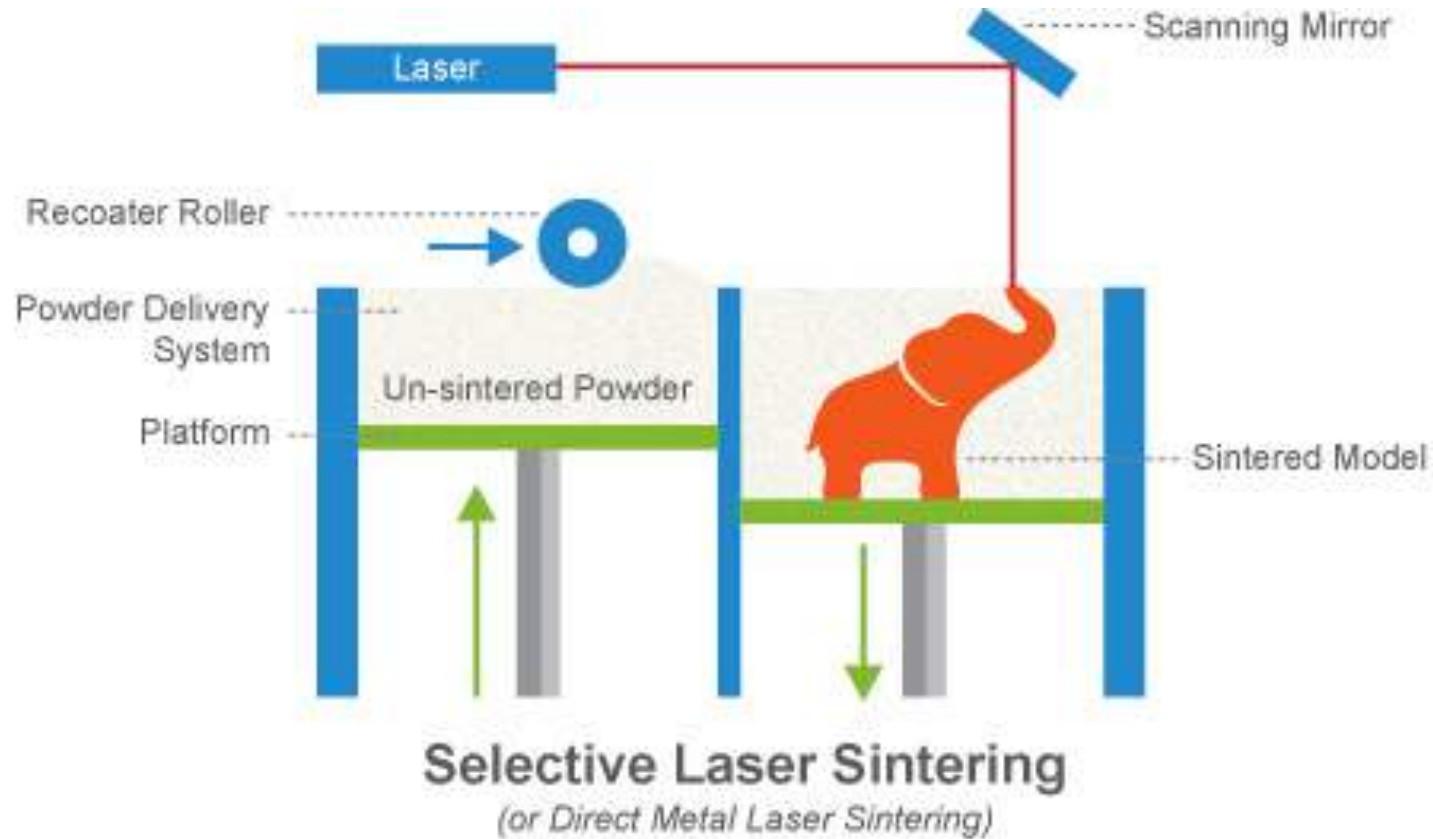
3D printing is een verzamelterm



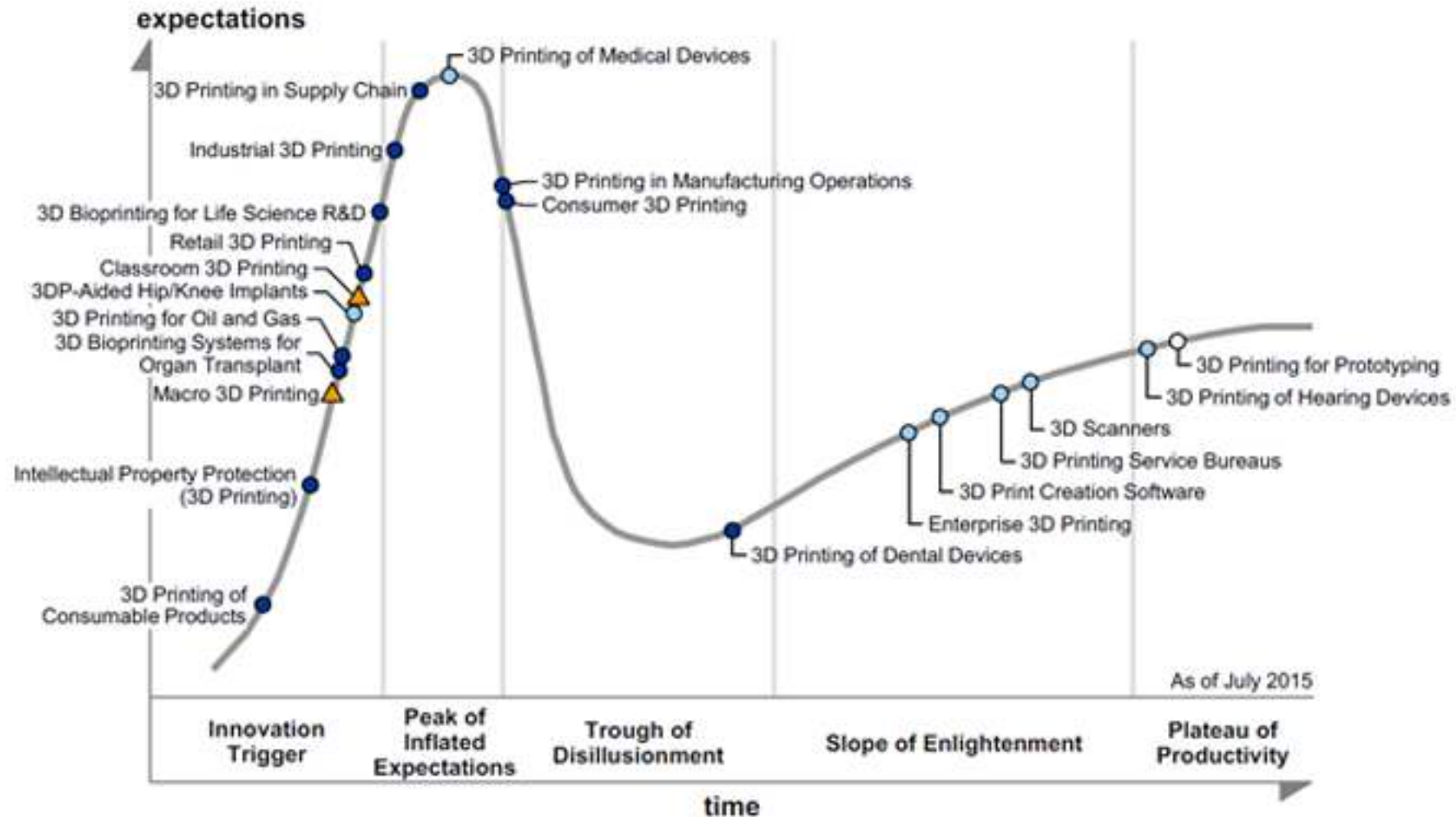
Stereolithography



3D printing is een verzamelterm



Waar ligt de toekomst?



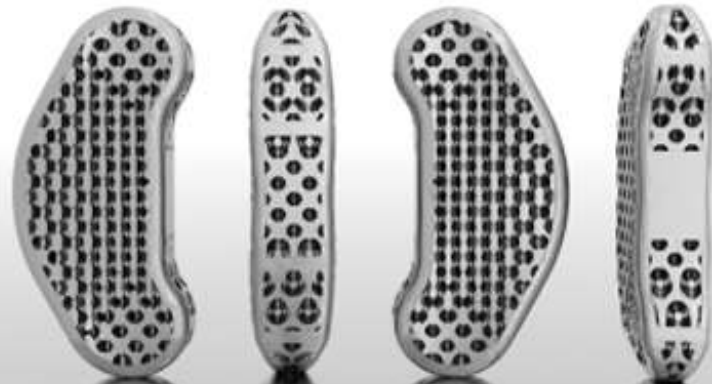
Plateau will be reached in:

○ less than 2 years ● 2 to 5 years ● 5 to 10 years ▲ more than 10 years ⊗ obsolete before plateau

De eerste bubbel ligt al achter ons



3D Printing is geen product



Business modellen: Online communities?

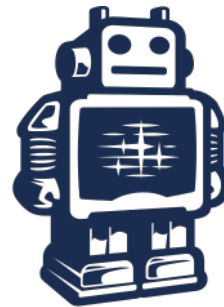
- Enkelstuks
- Lage prijzen
- Volume bundelen
- Mass customisation
- Lokale productie
- Toegankelijk voor elk budget

shapeways[★]



YOUIMAGINE

 **sculpteo**



Ultimaker



3D HUBS

Mass customisation?

JEWELRY DESIGNED BY YOU
CUSTOM MADE BY US

You do the chic, we do the geek.

START DESIGNING

Follow 2,008 followers Like 9k



1 Choose your jewelry.



2 Design it yourself.



Blackout ring

€35.00



Whisper necklace

€70.00



OPEN HAND PROJECT



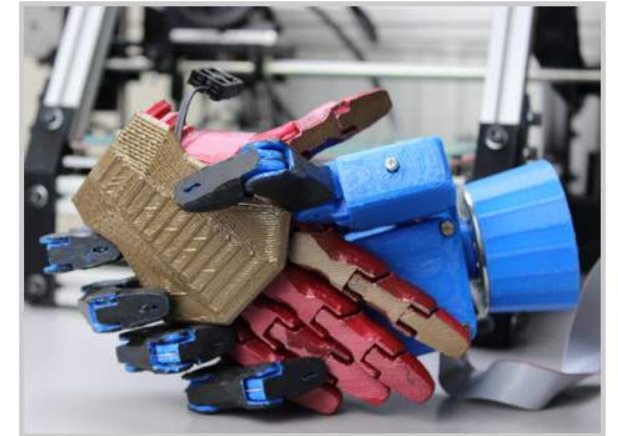
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Welcome

The aim of the Open Hand Project is to make robotic prosthetic hands more accessible to amputees.



emerging
\$1000.
at these

(Smart) Industries?

- Kleine series
- Geen tooling
- Snel produceren
- Veel variatie
- Nieuwe structuren



Industry 4.0

- Internet of Things
- Big Data
- Cloud Computing
- Digital Manufacturing
- Cybersecurity



Risico's?



Los van:

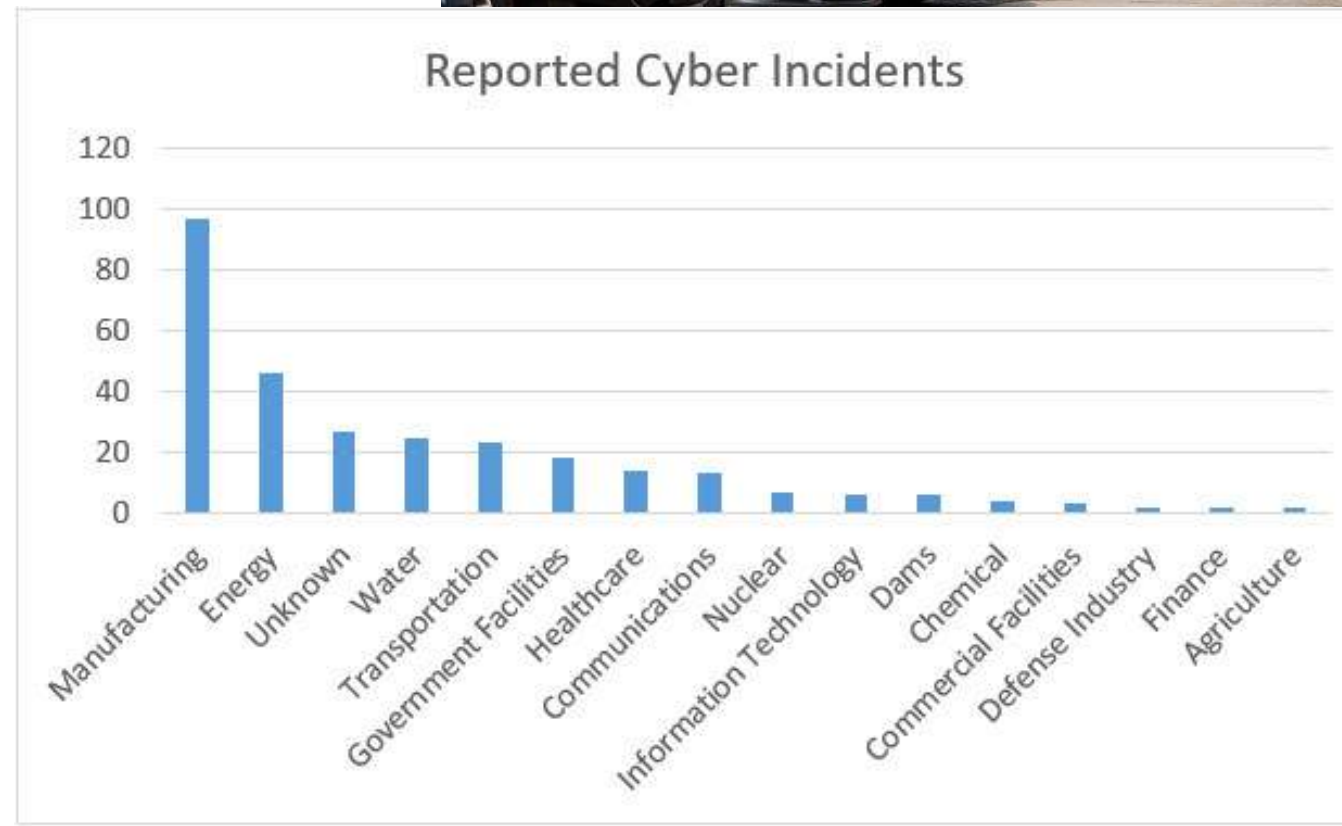
- Onvolwassen technologie
- Geen design for 3D
- IP protectie?
- Gebrekkige integratie



Risico's?



- Is de sector er klaar voor?
- Risico analyse?
 - Cyber attacks?
 - Unmanned operation?
 - Data leaks / privacy?
 - Accountability?
- Impact assessment?
 - Data storage
 - Data exchange
 - Connected systems



Vragen?

