





- Independent, non-profit, network
- Unite, represent, support
- Companies, Research, Education, Govt...
- Over 80 members, NL + BE
- Entire ecosystem

#### Content



- ▶ Het publiek & wij
- ▶ Waarom spreken we over 3D-printing?

#### Description

R. BAKER METHOD OF MAKING DECORATIVE ARTICLES Filed Nov. 12, 1920 April 14, 192s. 1,533,300

I WITNESSES: INVENTOR 1/7

ATTORNEY Patented Apr. 14, 1925 UNITED y 1,53 ATENT ELECTRIC MANUFACTURING COMPANY,

A CORPORATION OF PENNSYLVANIA.

\ METHOD OF MAKING DECORATIVE ARTICLES.

Application filed November 12, 1920. Serial No. 423,647...

To all whom it may concern: Be it known that I, RALPH BAKER, a citizen of the United States, and a resident of 'Wilkinsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Methods of Making Decorative Articles, of which the following is a specification.

This invention relates to ornamental arc welding, more especially to utilizing an electric arc, such as is ordinarily employed for electric welding, for the formation of deposits to produce receptacles or containers of ornamental and useful shapes.

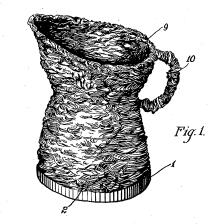
I have found that metal derived from a fusible metal electrode by the passage of a current therethrough may be so **deposited in superposed layers as to form various articles of an ornamental and useful nature**, it being among the objects of my invention to produce such objects of various designs.

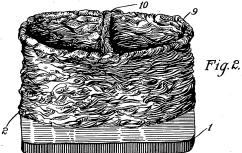
April 14, 1925.

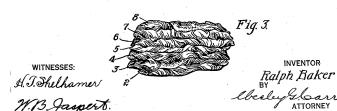
1,533,300

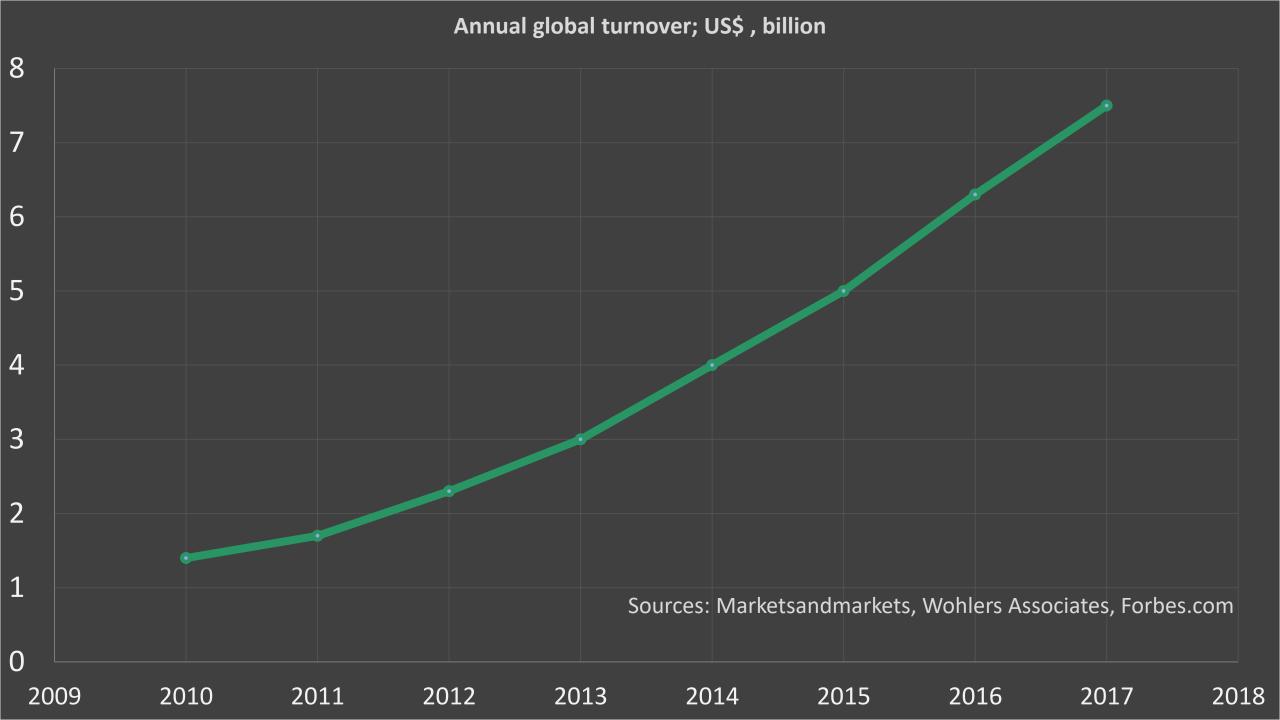
R. BAKER

METHOD OF MAKING DECORATIVE ARTICLES
Filed Nov. 12. 1920



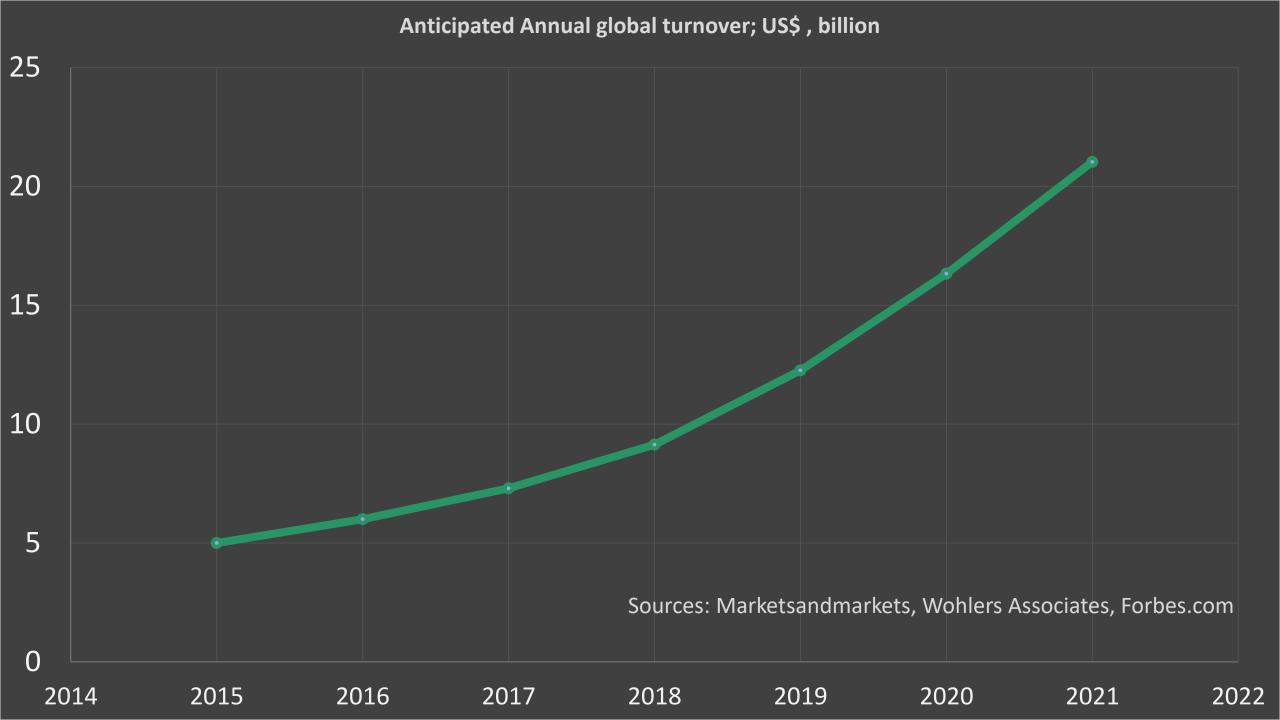






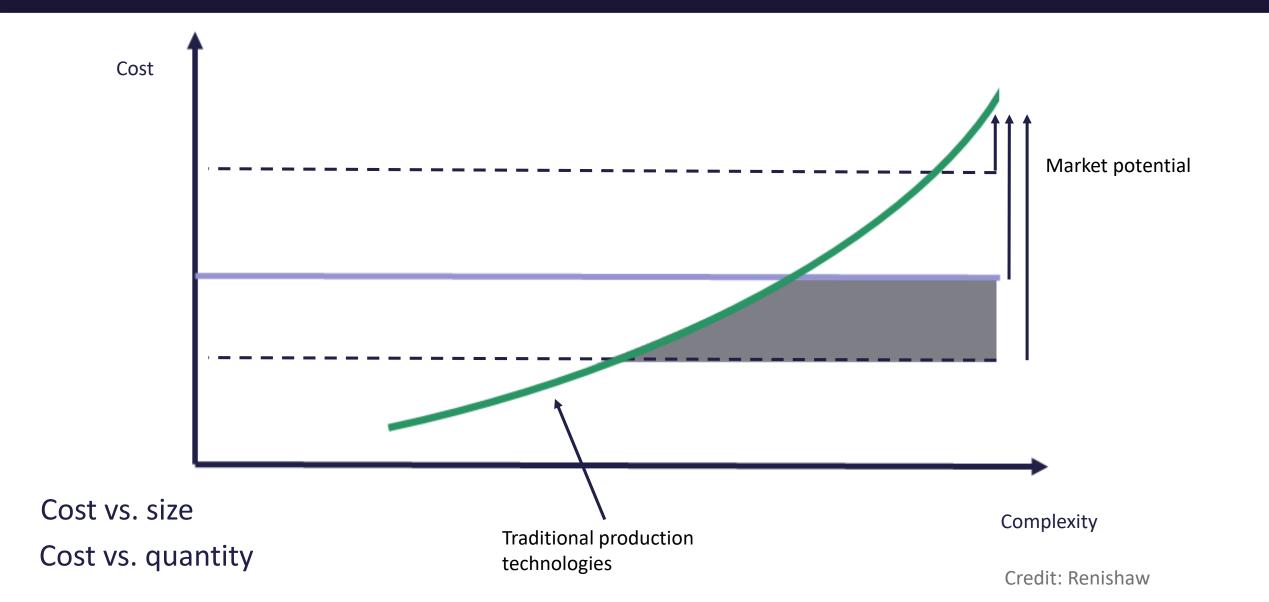




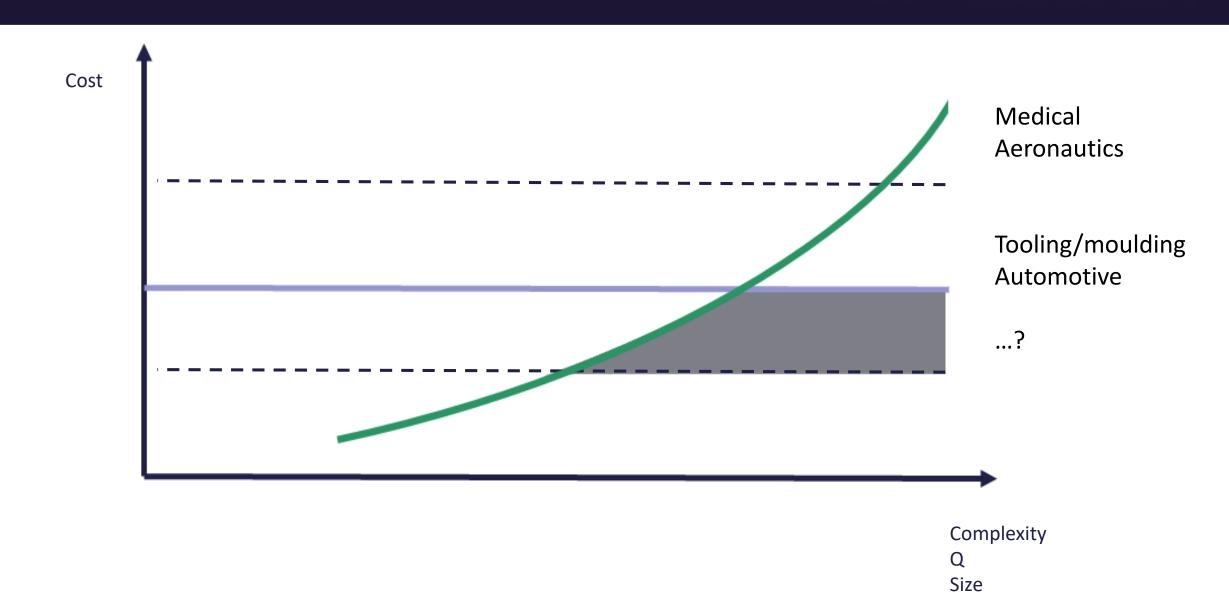


2040 - 2060

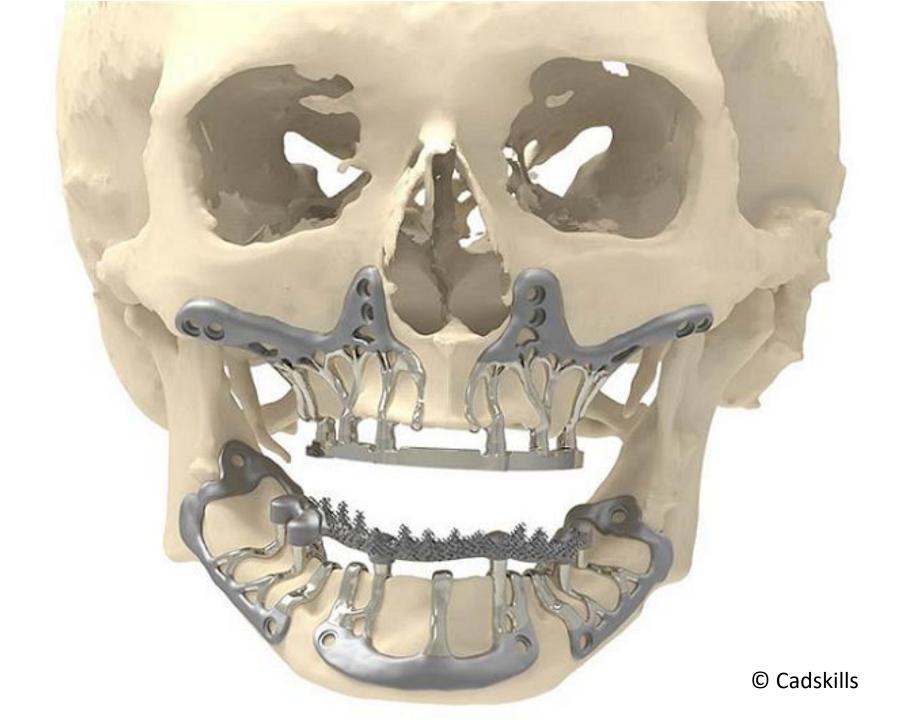




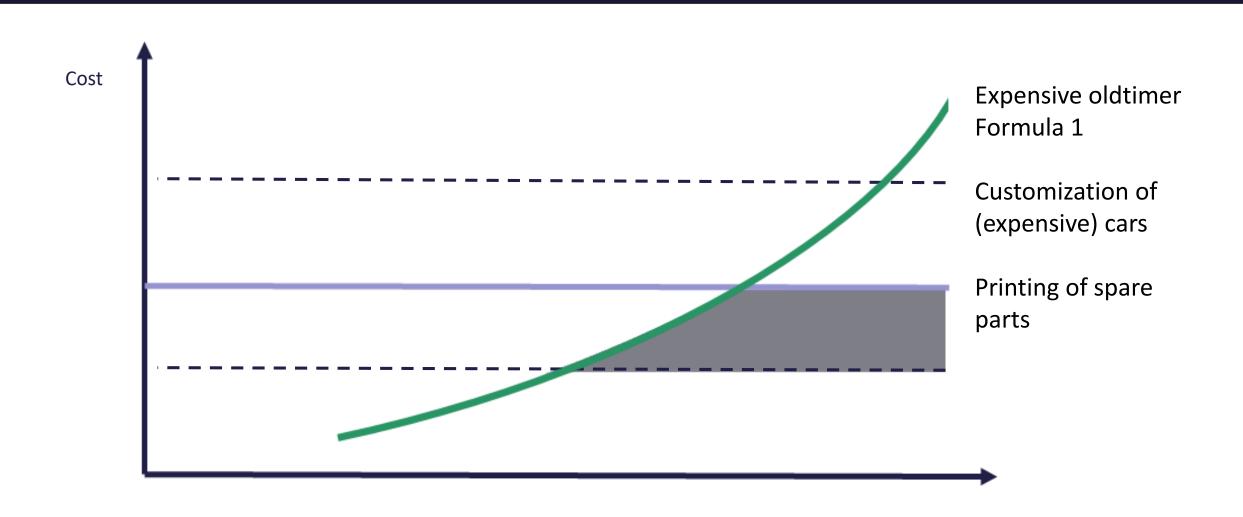




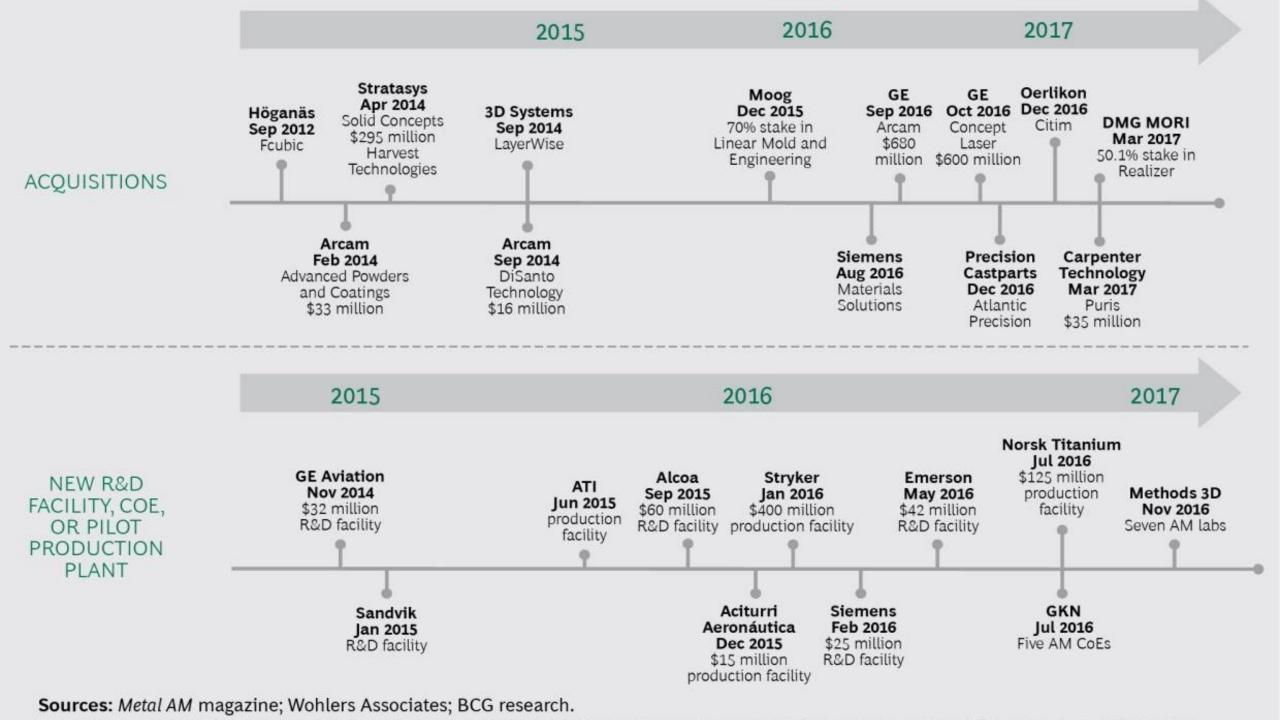










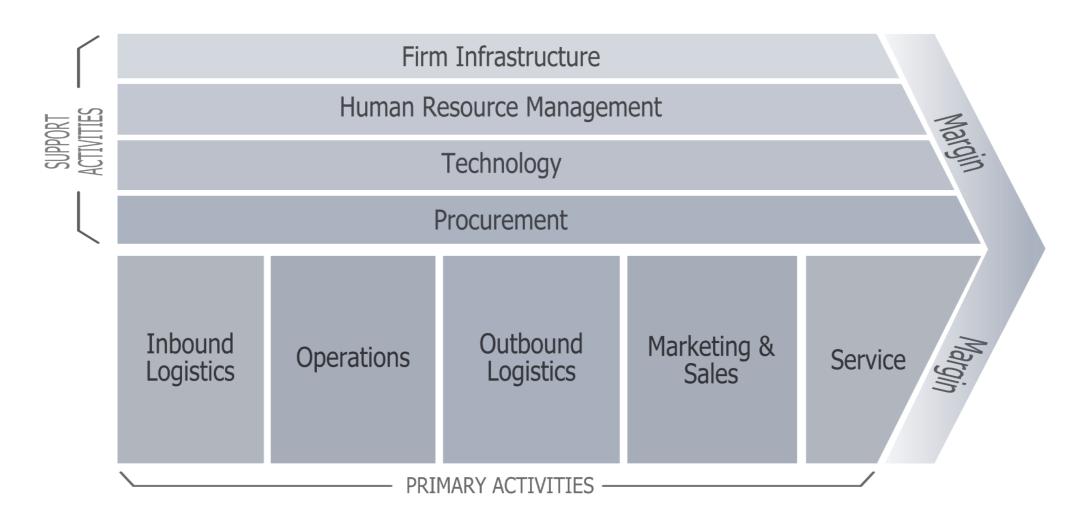


#### Content



- ▶ Het publiek & wij
- ▶ Waarom zijn we hier?
- ▶ Het AM-ecosysteem

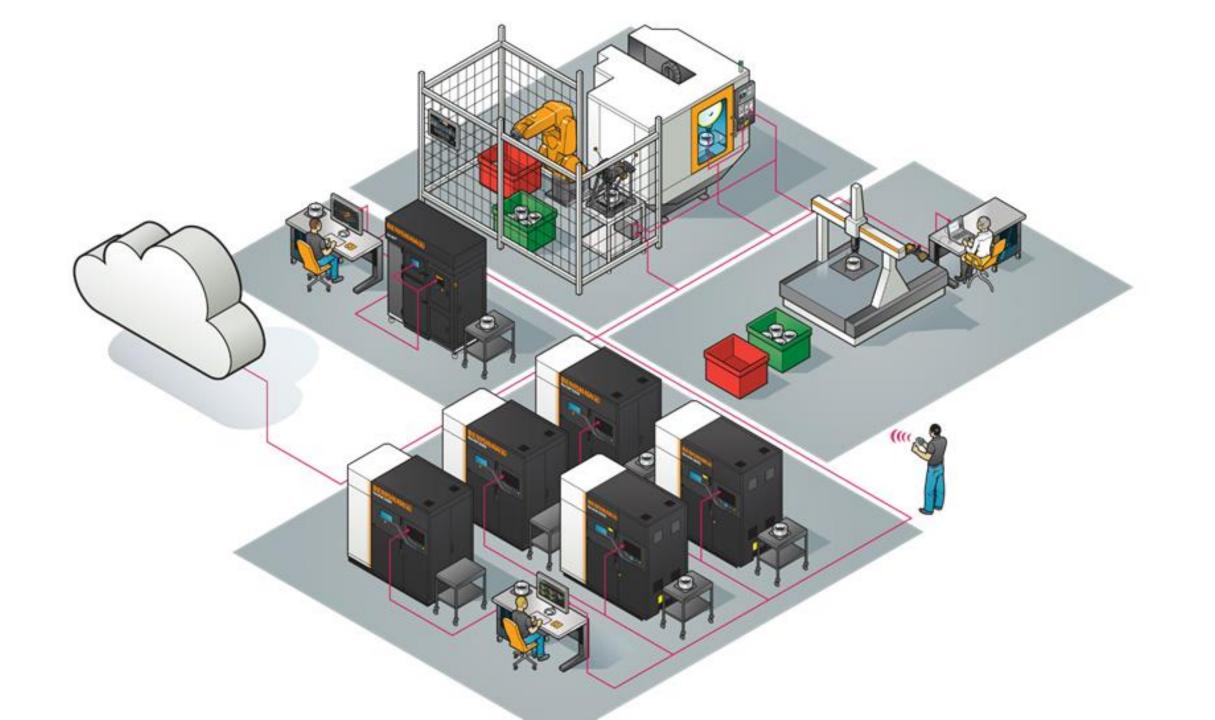






Firm Infrastructure				
Human Resource Management				
Technology				
Procurement				
Inbound Logistics	Operations	Outbound Logistics	Marketing & Sales	Service











# Technology

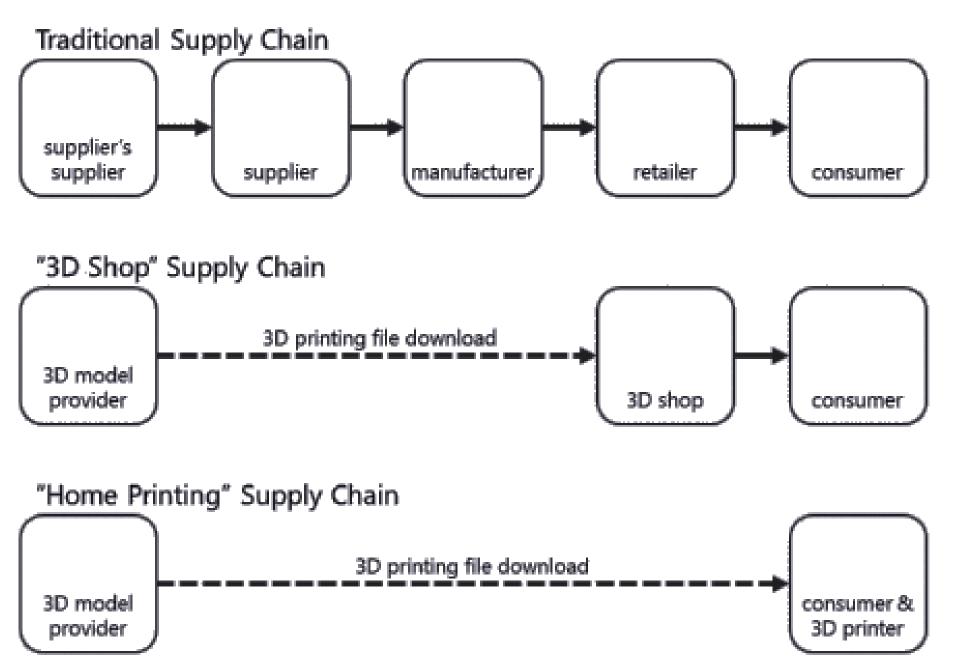


Firm Infrastructure				
Human Resource Management				
Technology				
Procurement				
Inbound Logistics	Operations	Outbound Logistics	Marketing & Sales	Service

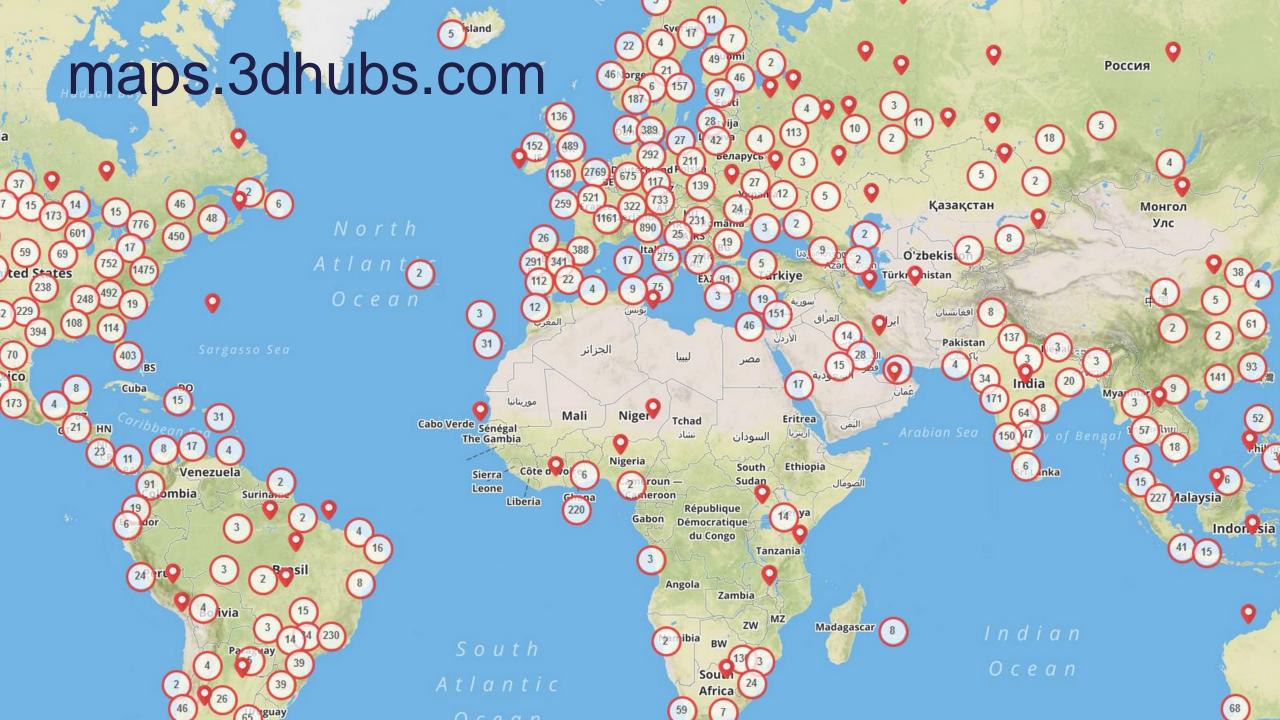




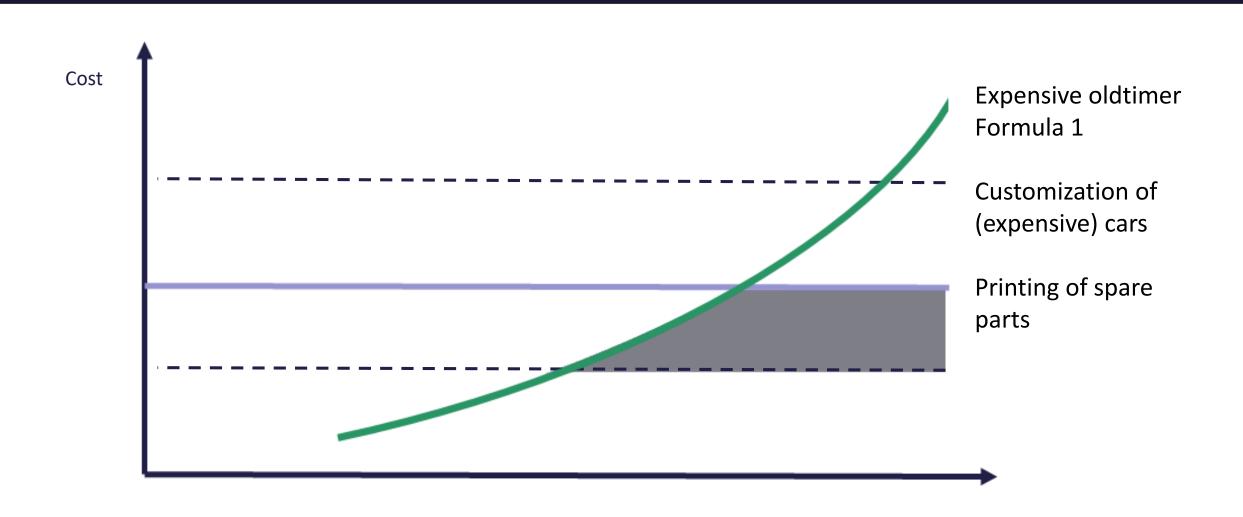
Firm Infrastructure				
Human Resource Management				
Technology				
Procurement				
Inbound Logistics	Operations	Outbound Logistics	Marketing & Sales	Service



A. Wieland, scmresearch.org (2014)











Firm Infrastructure				
Human Resource Management				
Technology				
Procurement				
Inbound Logistics	Operations	Outbound Logistics	Marketing & Sales	Service

#### ADDITIVE MANUFACTURING TECHNOLOGIES



Markforged



Procurement				
Inbound Logistics	Operations	Outbound Logistics	Marketing & Sales	Service



Procurement				
Inbound Logistics	Operations	Outbound Logistics	Marketing & Sales	Service



Procurement				
Inbound Logistics	Operations	Outbound Logistics	Marketing & Sales	Service

### Content



- ▶ Het publiek & wij
- ▶ Waarom zijn we hier?
- ▶ Het AM-ecosysteem
- Opportuniteiten



Where's the money?

For individuals







Where's the money?

For individuals

It's where the lack of skills is.



Where's the money?

For companies in the AM Value Chain

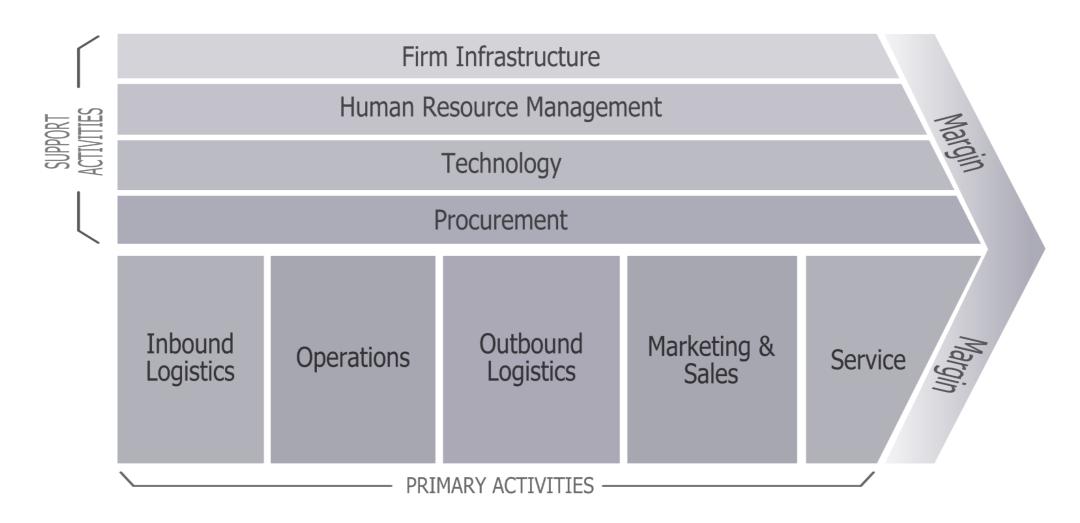




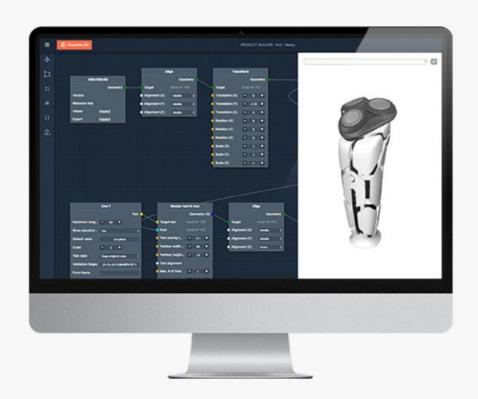


- → Hybride, Combinatie Additive/subtractive
- → Multiple-source polymerisation
- → Printing in trucks?
- → In Between....









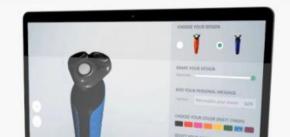


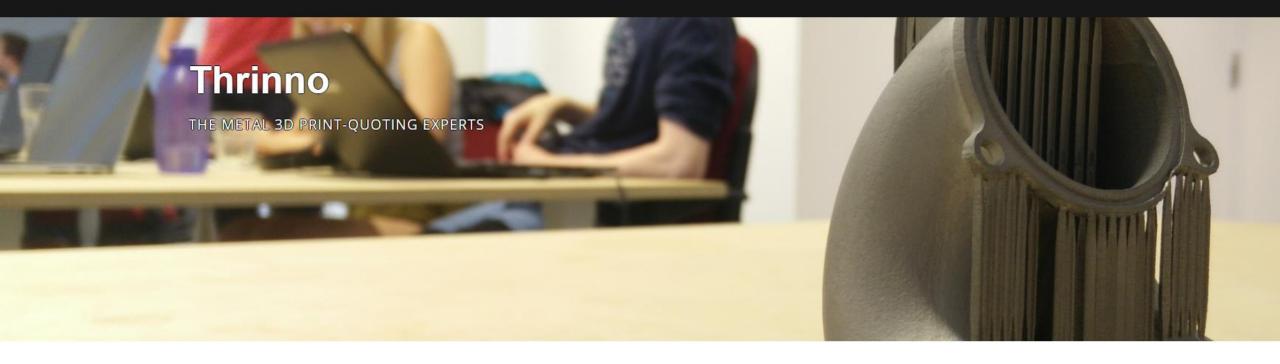
### **Product Parametrization**

The Twikbot platform transforms your product from a digital input (3D file, 3D scan, Al) to a configurable format for visual customization and digital manufacturing.

- Product parametrization from your input (3D file, 3D scan, Al)
- Define tweaks within parameters: twist, scale, multiply bend and more
- Emboss, deboss and cut-through
- Define materials and finishes
- Combine 3D model with assets: fonts/images/patterns/textures

## Visual Product Customization





### **About**

### Mission

To become the industry standard software for simple, accurate pricing for metal 3D printing.



### **U** · BASF We create chemistry



♠ BASF Germany

Compa

**BASF New Bus** 

About us ~

Scouting

Home > Company / BASF N

BUSINESS & FINANCIAL NEWS

Joint Press Release

# Optimizin for 3D pr

- BASF and Belgian comp
- Chemical company inve

### ADDITIVE INDUSTRIES SLUIT CONTRACTEN MET SAUBER EN 3RD DIMENSION

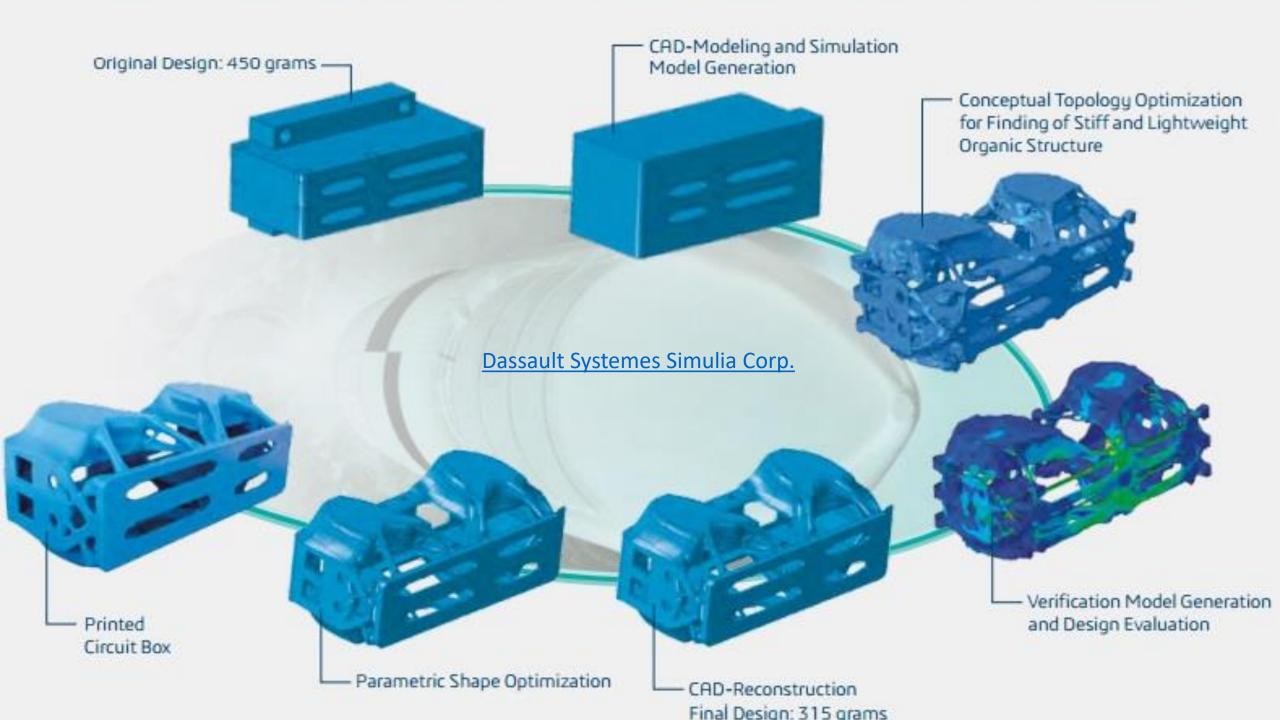
22 okt 2018 | Manufacturers



tnership

achieve serial

Ludwigshafen/Germany, Leuven/Belgium – July 19, 2018 – BASF is expanding its cooperated scurer on the qualification of a Ludwigshafen/Germany, Leuven/Belgium – July 19, 2018 – BASF is expanding its cooperate payload fairing. A new Optimized design made company, which is headquartered in Leuven. The two partners are working together within the framework of an open and coftware for various 3D printing technologies and bring them





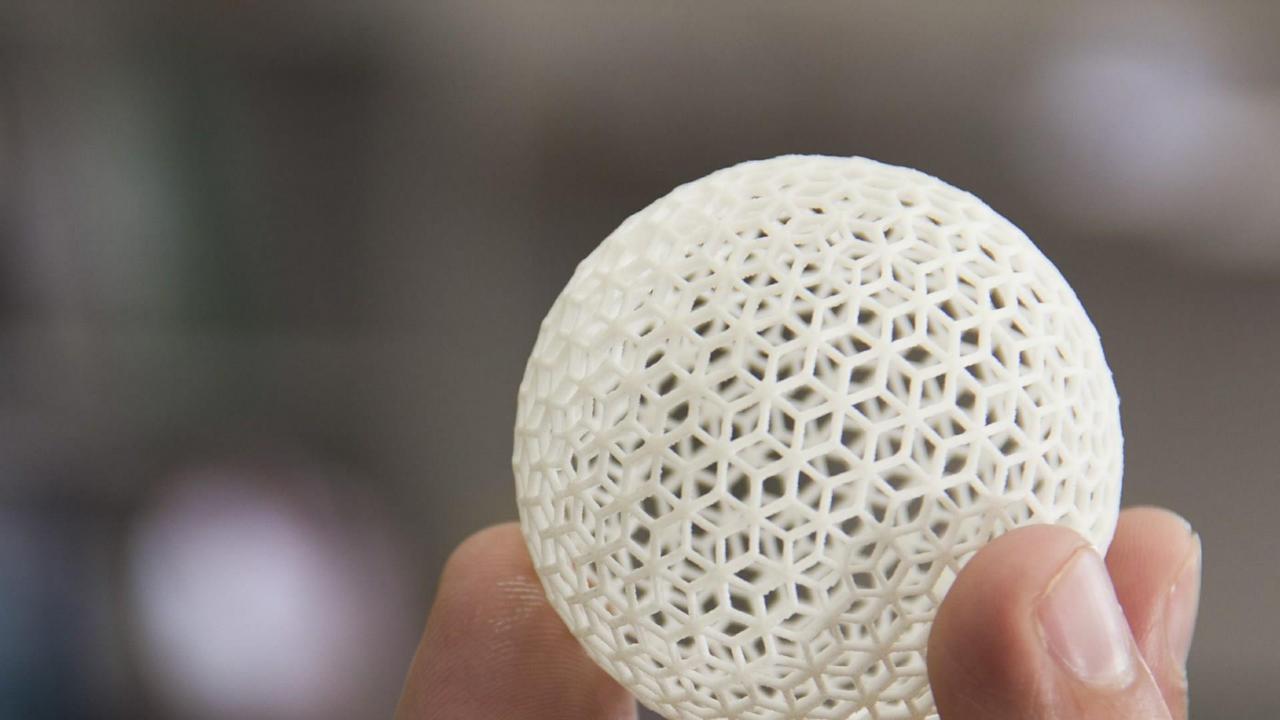




© Renishaw











Where's the money?

For companies outside the AM Value Chain

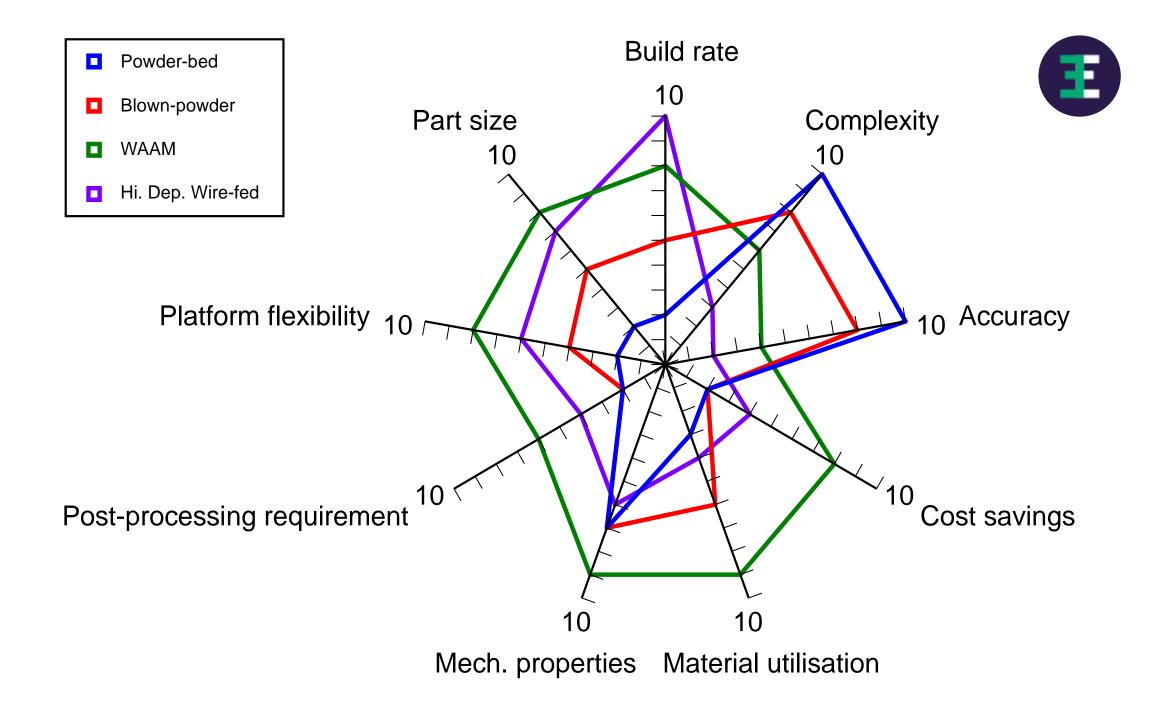
#### ADDITIVE MANUFACTURING TECHNOLOGIES



Markforged







## Start met de toepassing



- material efficiency light weight structures
- flow optimalization
- integration of functions
- mass customization





### Conclusion



Where's the money?

For individuals

It's where the lack of skills is.

For companies in the AM Value Chain

It's "in between"

For companies outside the AM Value Chain

It's in the Competitive Advantage → Faster, lighter, better,





Thank you!

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