

16. FACHTAGUNG RAPID PROTOTYPING

18. November 2011

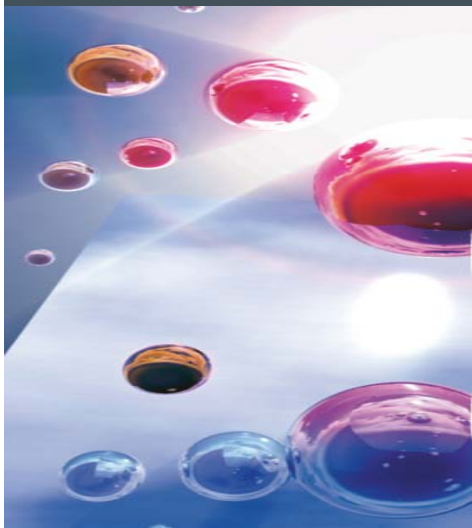
Additive Fertigung in
Entwicklung und Produktion

Hochschule Ostwestfalen-Lippe
University of Applied Sciences

HERZLICH WILLKOMMEN ZUR

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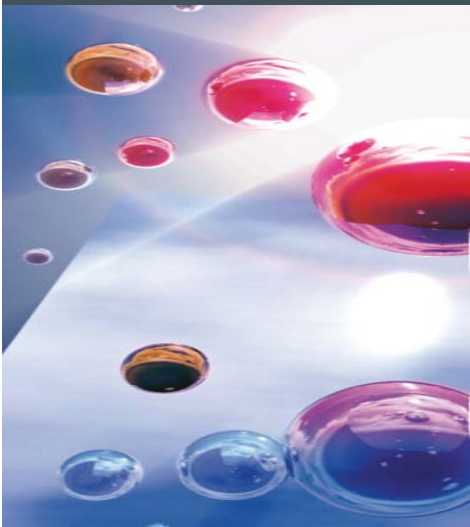
ADDITIVE FERTIGUNG IN ENTWICKLUNG UND PRODUKTION



Quo vadis Rapid Prototyping?

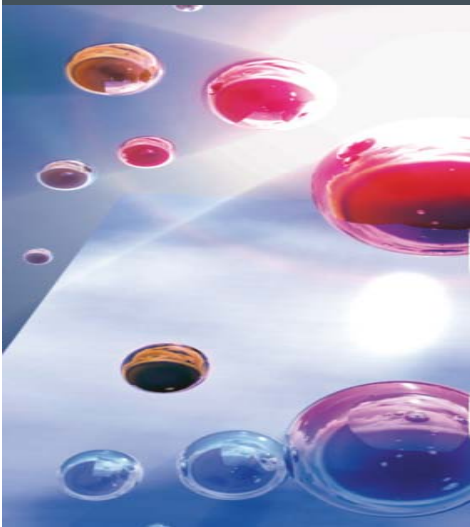
Prof. Dr.-Ing . Franz-Josef Villmer

Hochschule Ostwestfalen Lippe

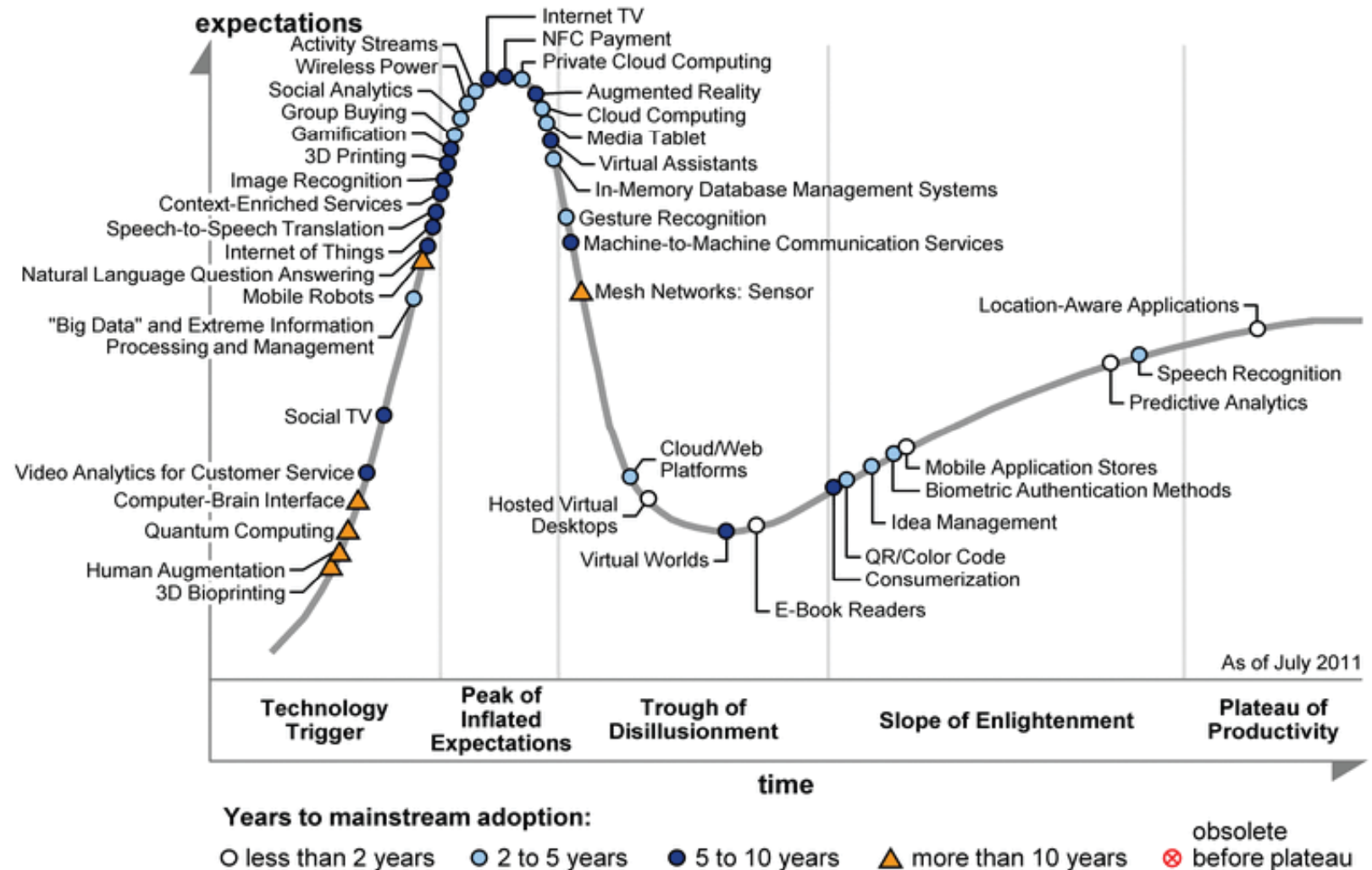


Quo vadis Rapid Prototyping?

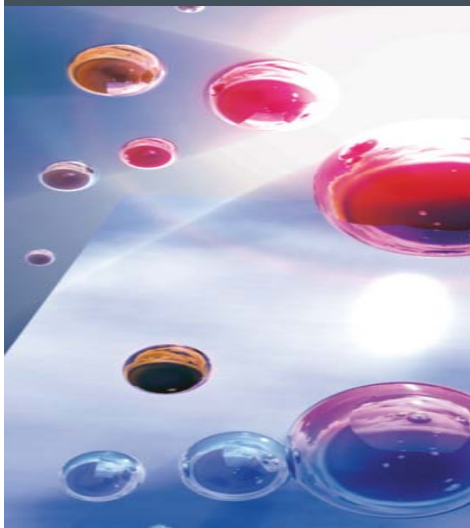
- Globale Wirtschaftsentwicklung
- Identitätskrise – Bezeichnungen
(RP/3D-Printing/AM/GFV/Additive Fertigung)
- Technologien - Anforderungen
- Concept Models – Direct
Manufacturing
- Dienstleister –
Produktionsunternehmen
- Hochschulen – Forschungsinstitute



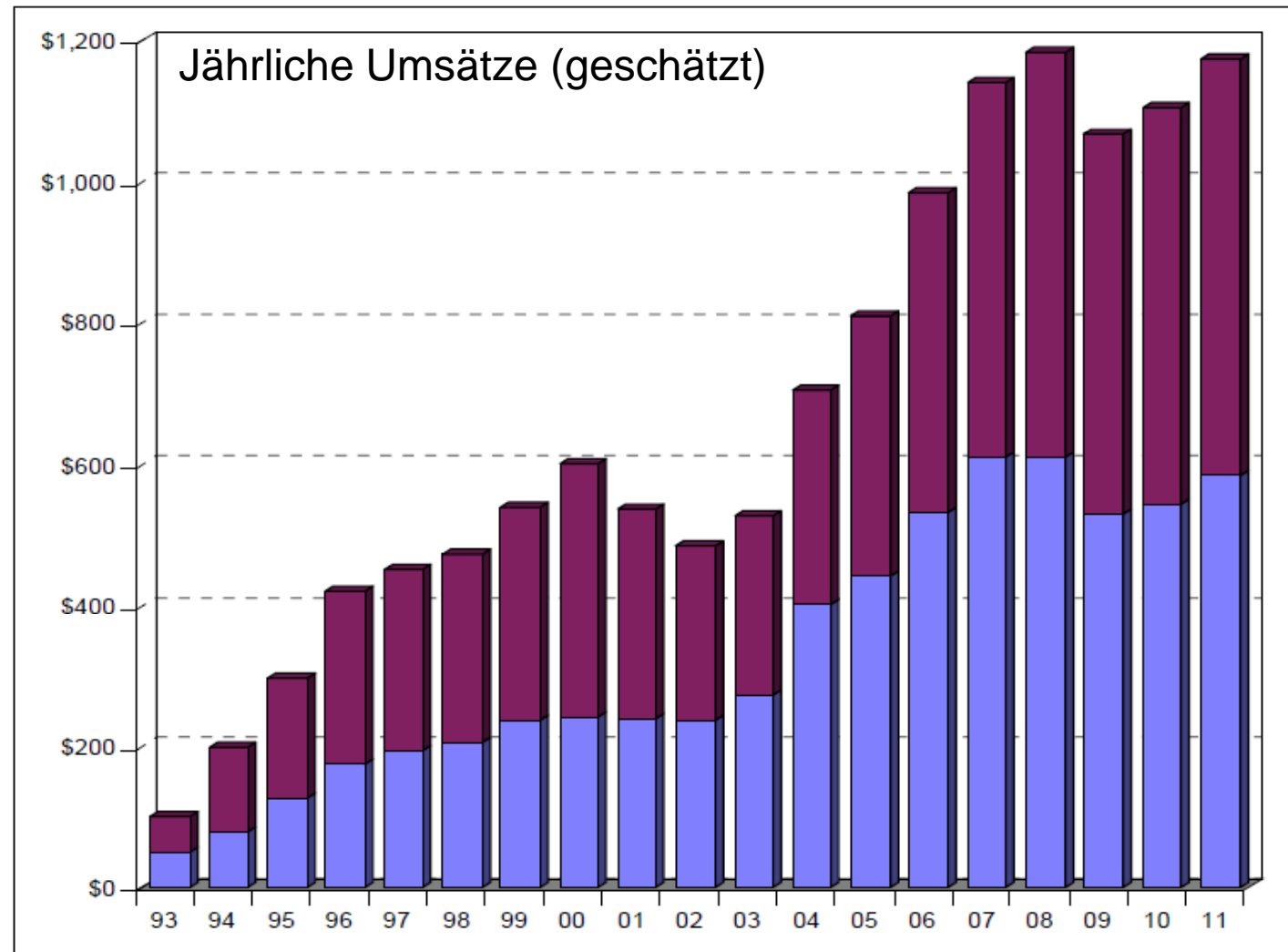
Quo vadis Rapid Prototyping?



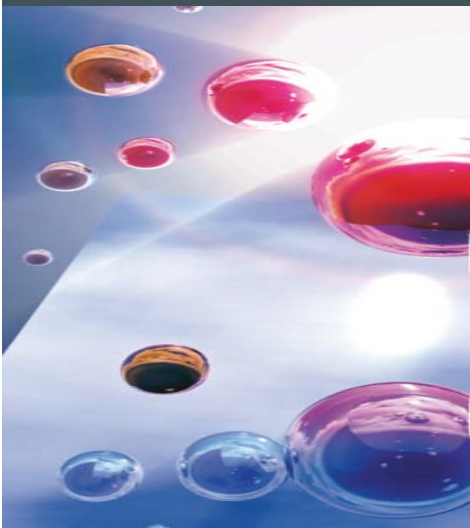
Source: Gartner Hype Cycle, Gartner (July 2011)



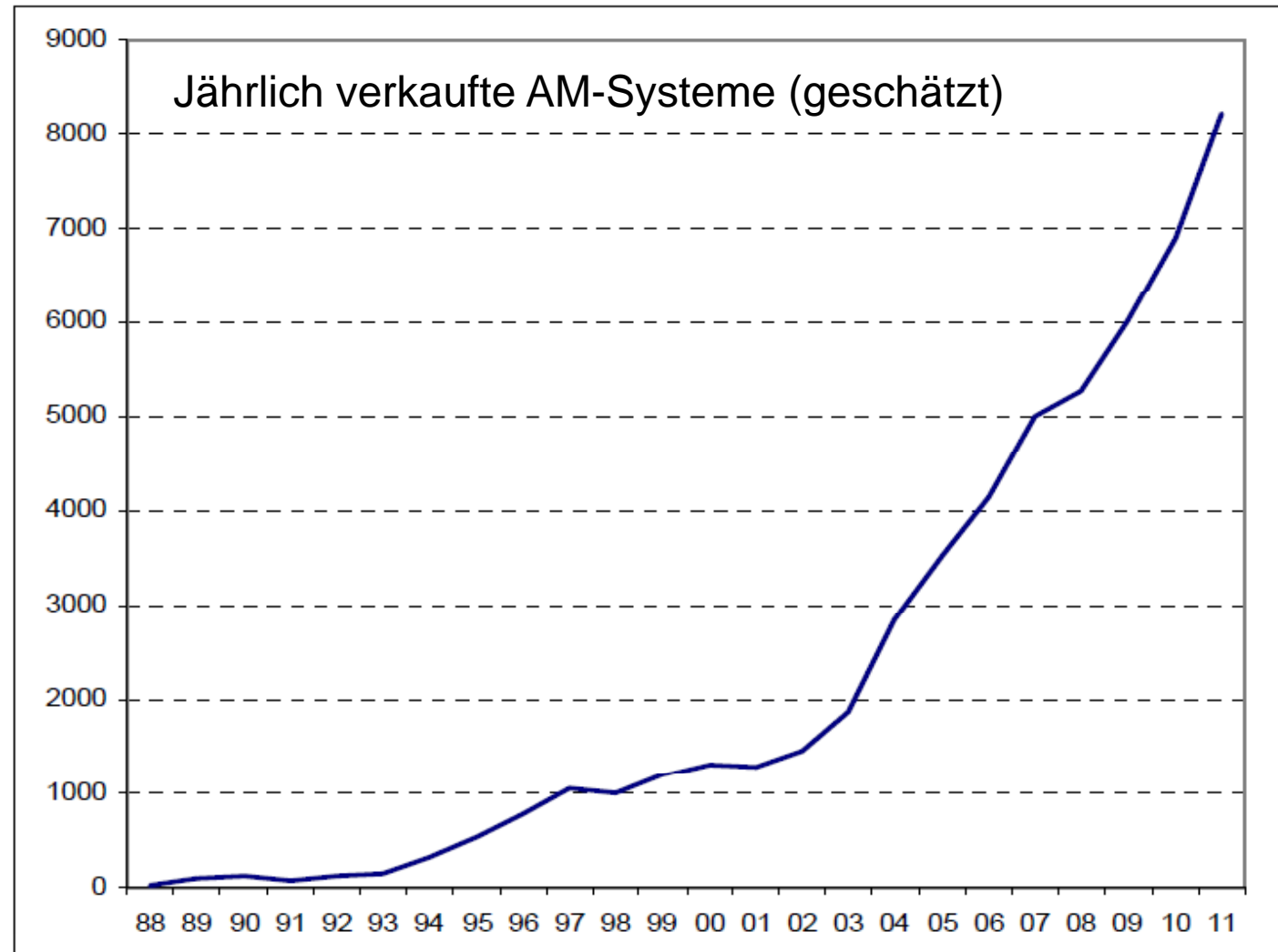
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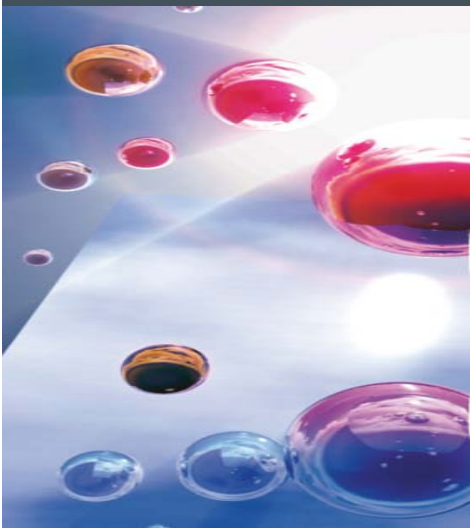
Source: Wohlers Report 2010



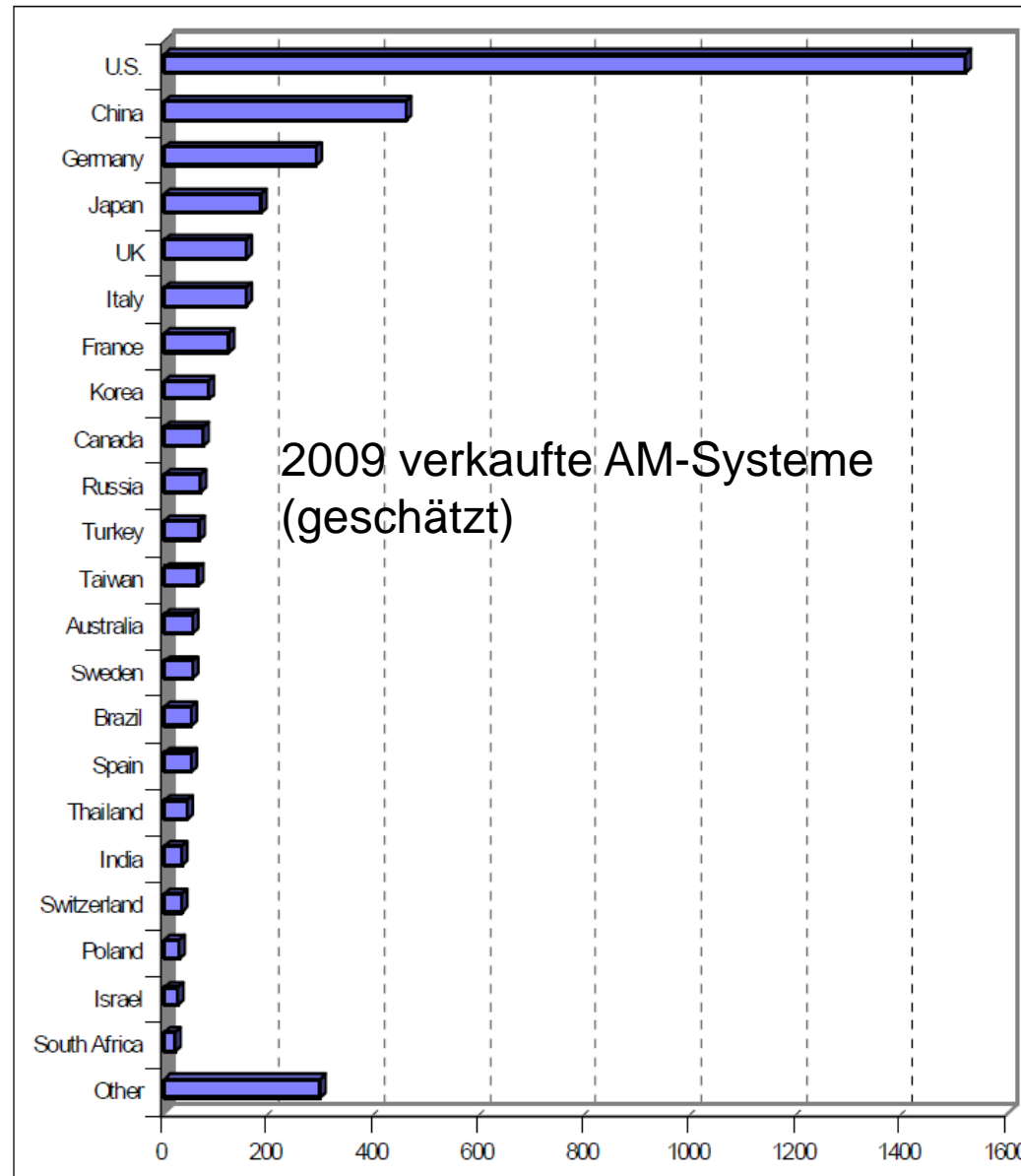
Quo vadis Rapid Prototyping?



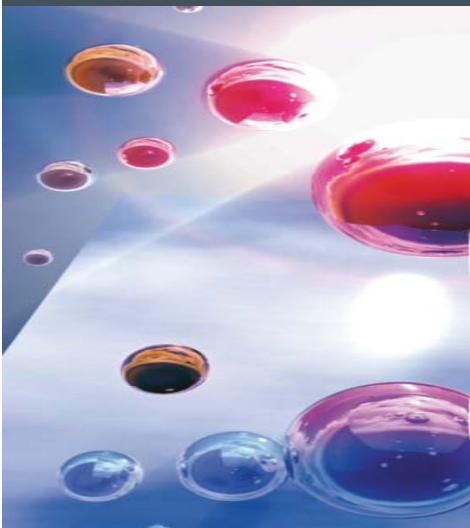
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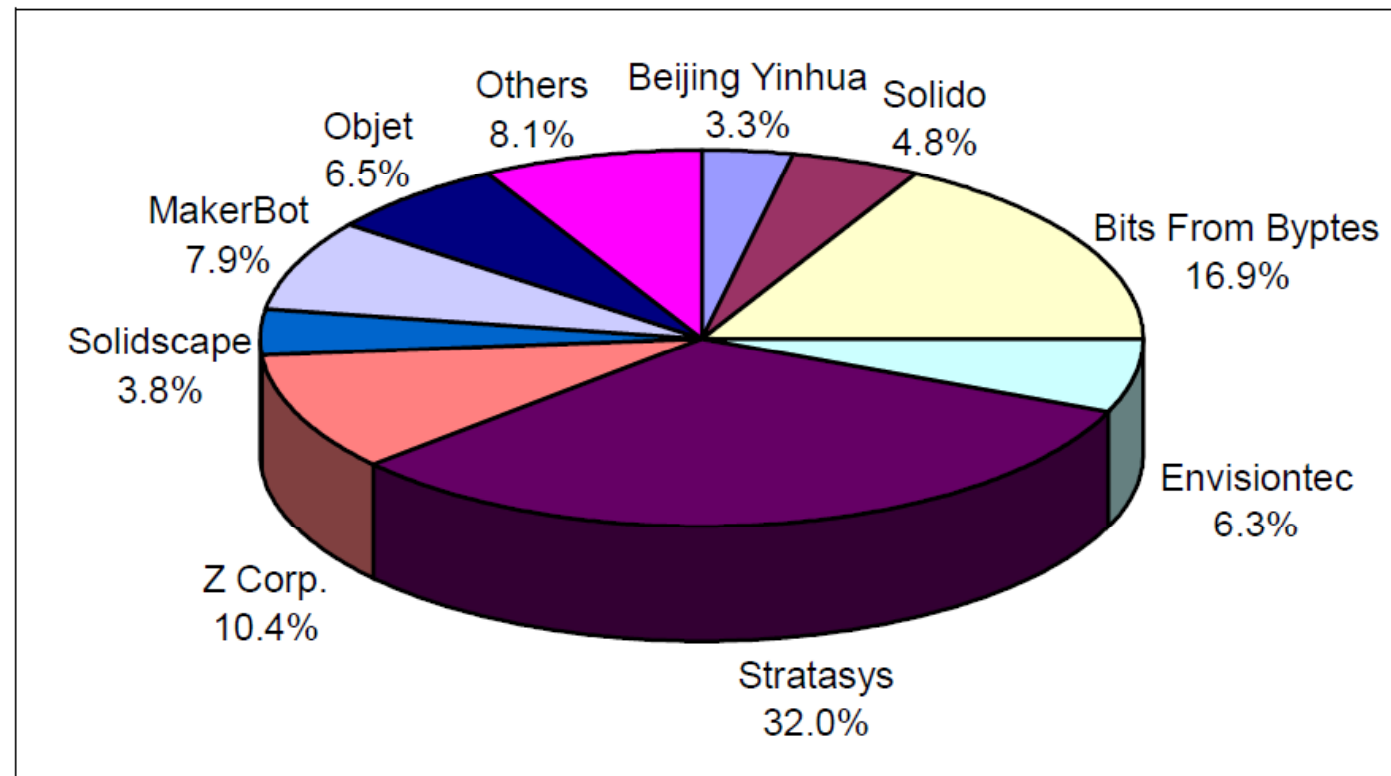


Source: Wohlers Report 2010

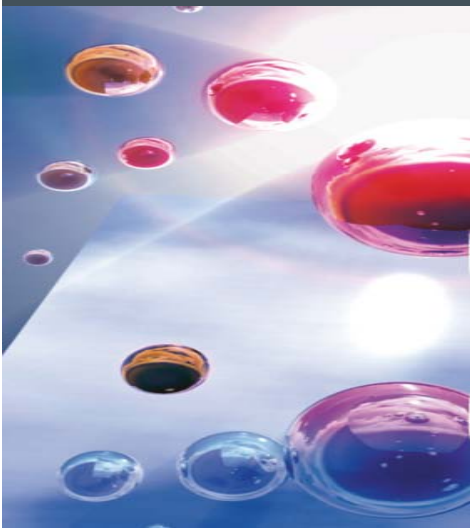


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Marktanteile der Hersteller nach verkauften Systemen

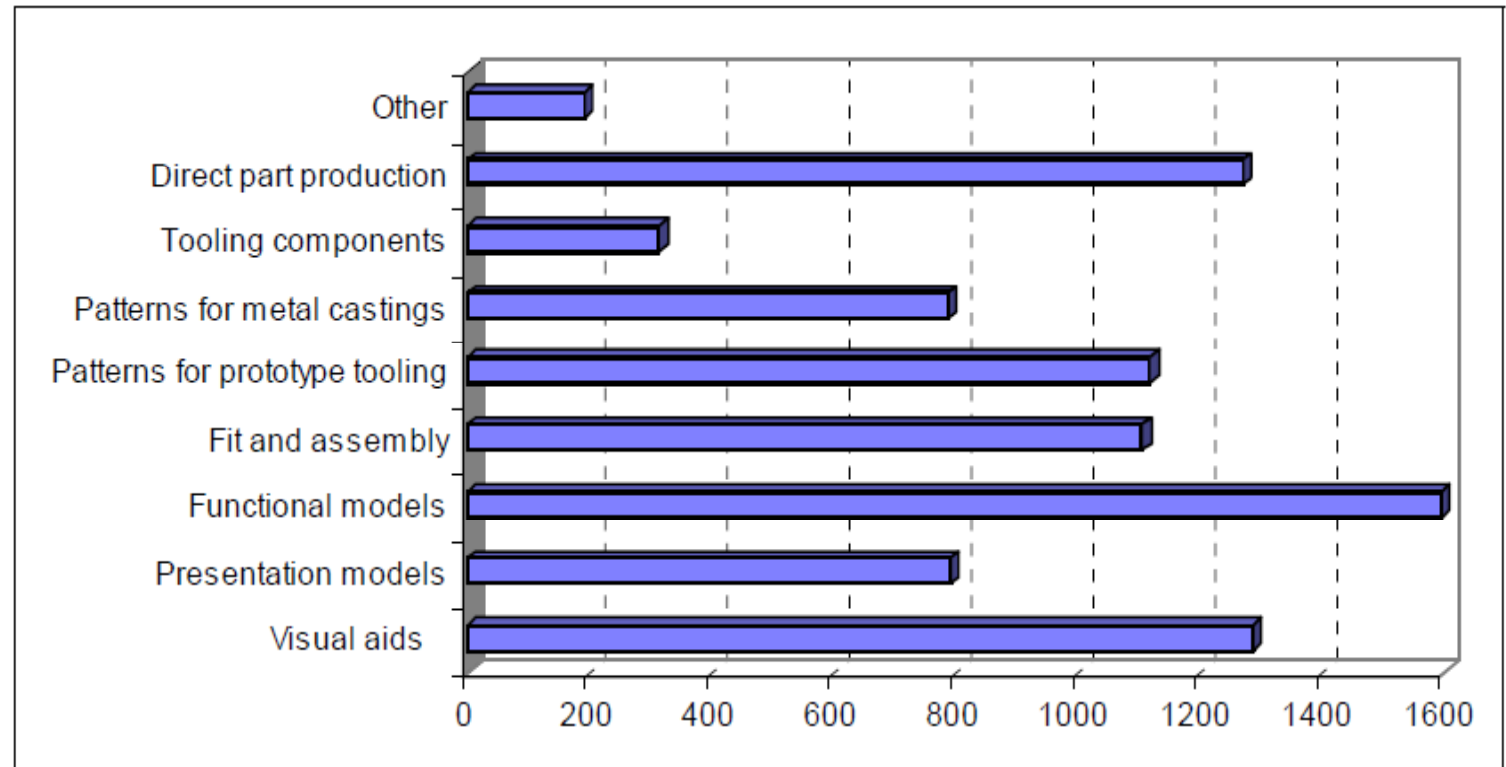


Source: Wohlers Report 2010

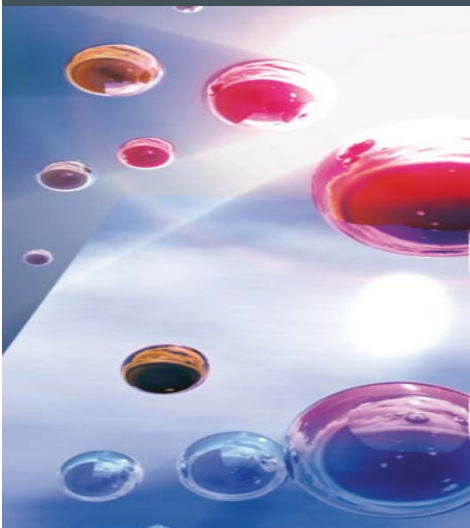


Quo vadis Rapid Prototyping?

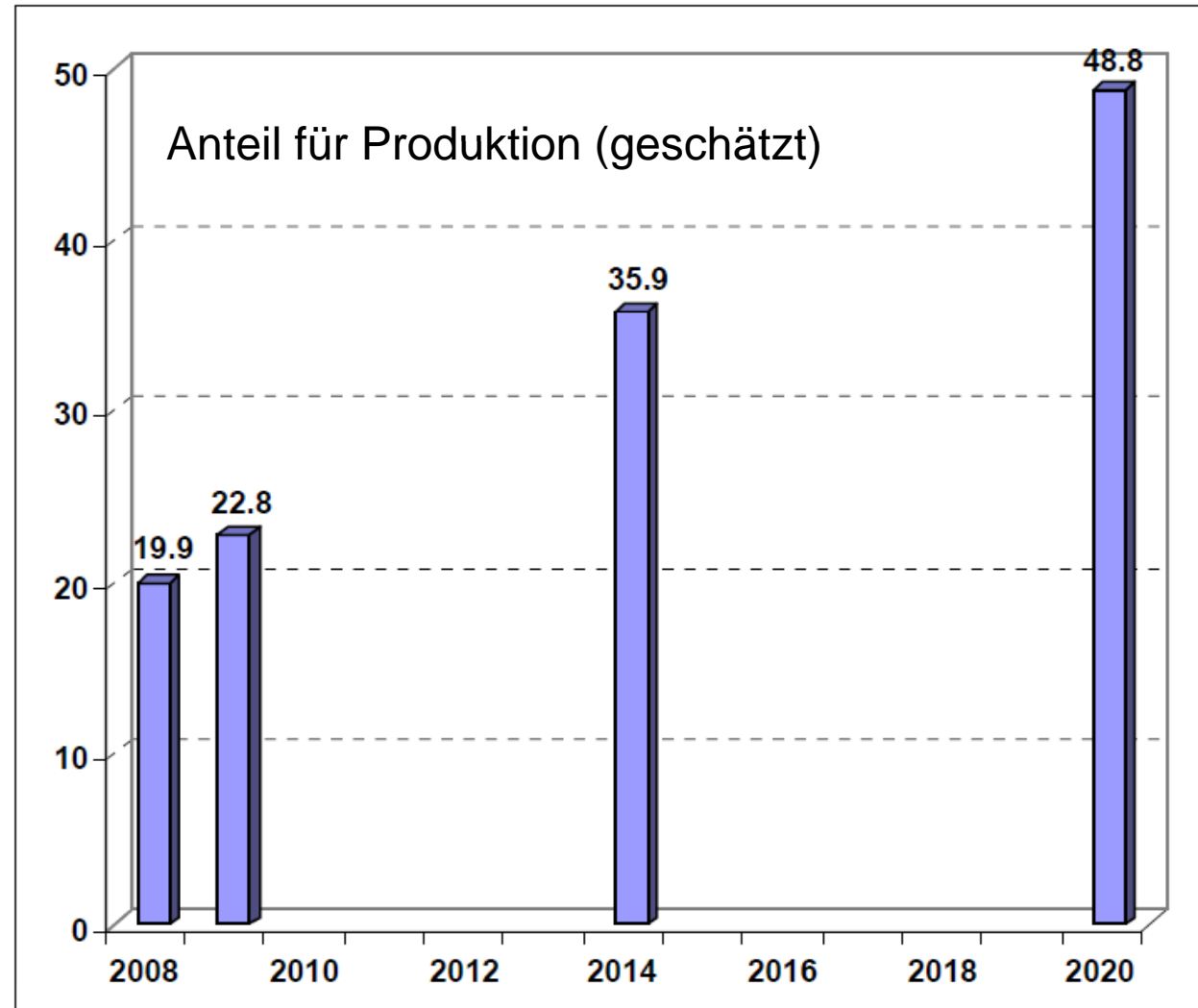
Wie Kunden die AM-Systeme nutzen



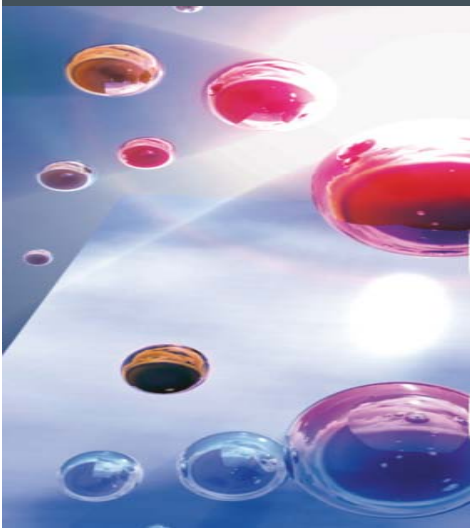
Source: Wohlers Report 2010



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Source: Wohlers Report 2010

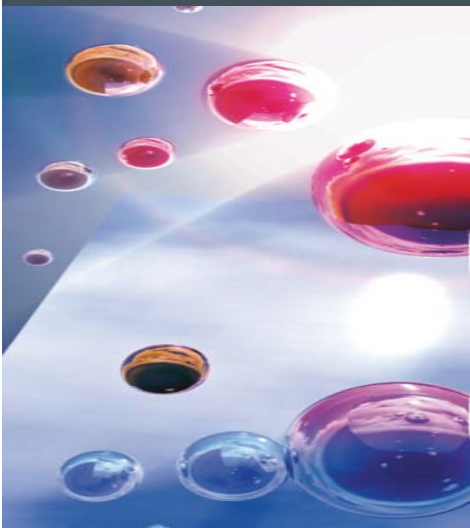
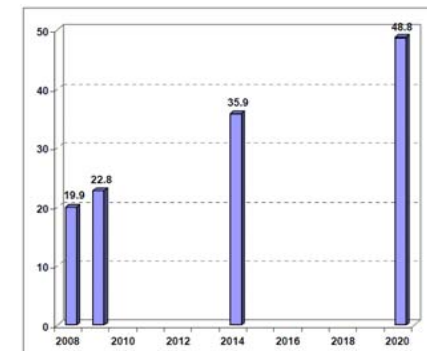


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Die Zukunft der Additiven Fertigung

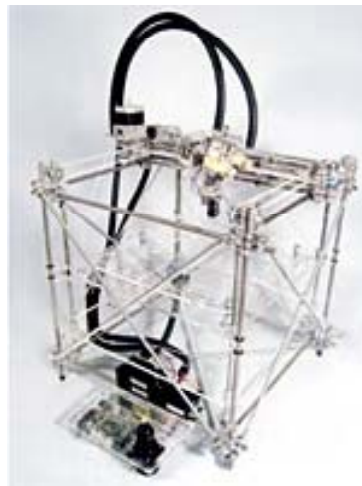
„In the future, many organisations will use AM to manufacture a wide range of custom and limited edition products and replacement parts. Companies will also use AM for short-run and series production for part quantities ranging from a few to thousands.“

Terry Wohlers

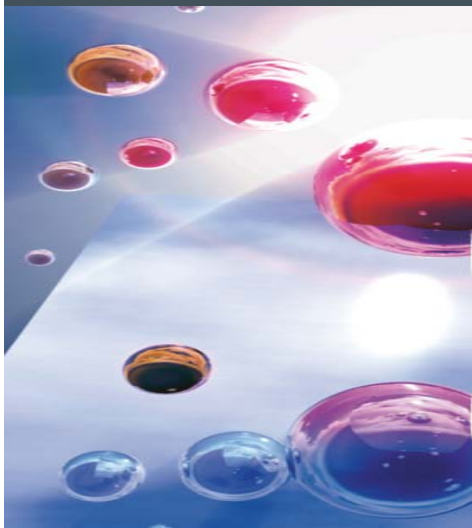
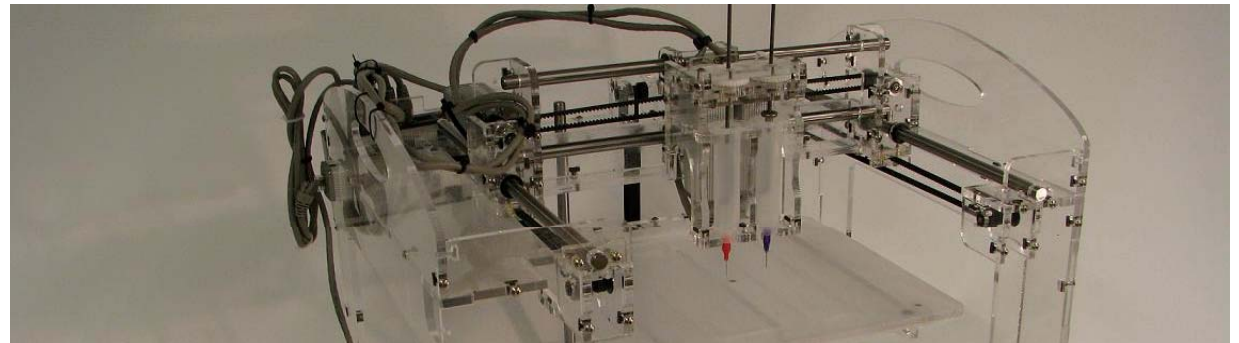


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Fabber- Open Source



Sources: A1 Technologies
Cornell University



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Anwendung der Additiven Fertigung

Früher:

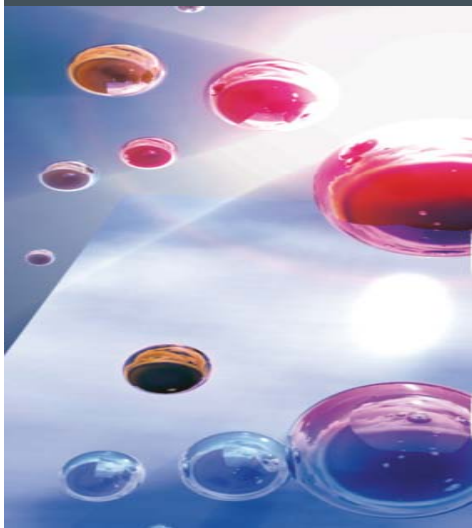
- Stark limitiert
- Versuch, andere Verfahren nachzuahmen



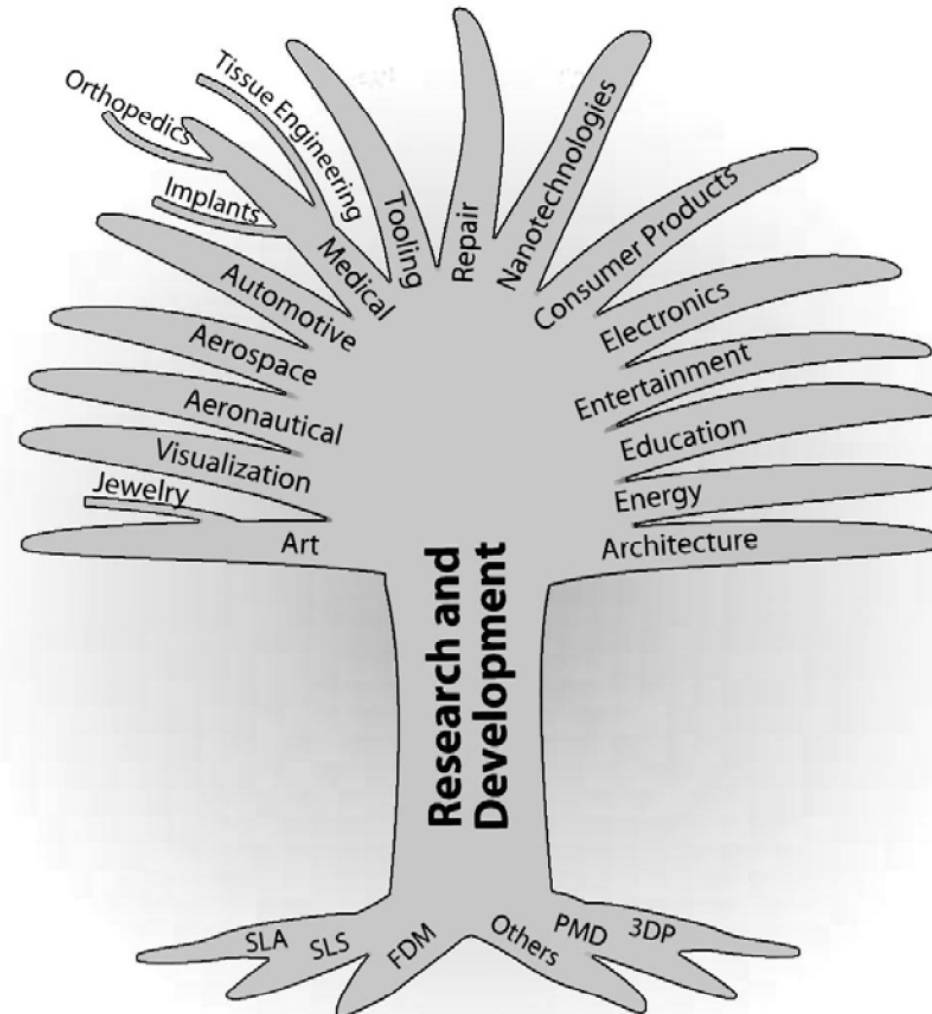
Source: Wohlers Report 2010

Heute:

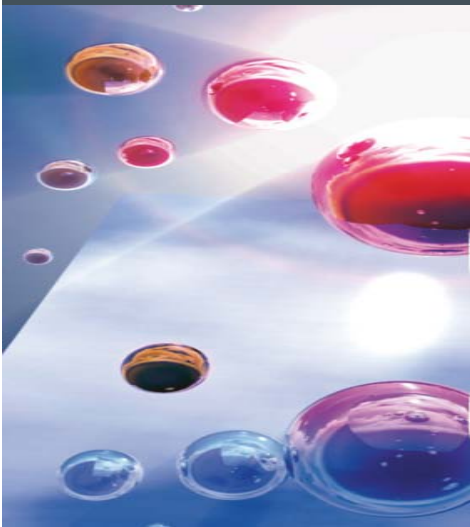
- Eigenständige Fertigung von Designmodellen bis Rapid Manufacturing



Quo vadis Rapid Prototyping?



Source: David L. Bourell, Ming C. Leu, David W. Rosen: The AM Roadmap



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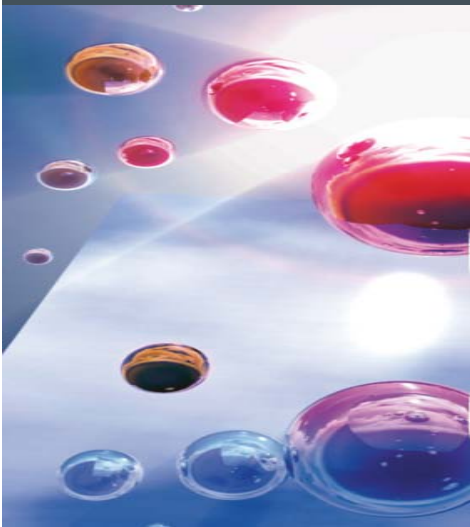
Die Zukunft der Additiven Fertigung

Professional

Luftfahrt
Automobile
Medizintechnik
Dentaltechnik
Motorsport

Consumer

Spiele / Avatare
Spielzeuge
Möbel
Hausgeräte
Kunst
Mode

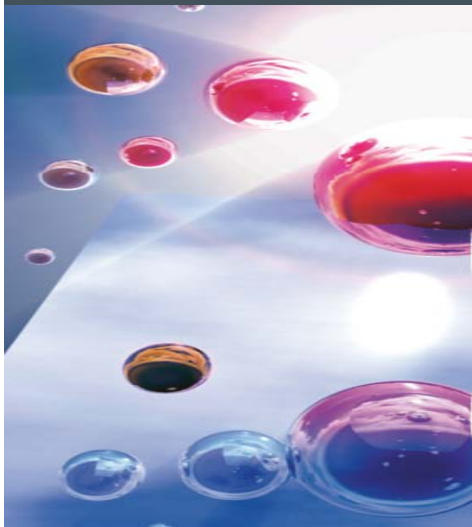


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Additive Fertigung in Entwicklung und Produktion

Innovationen, Prozesse, Anwendungen

Luft- und Raumfahrt

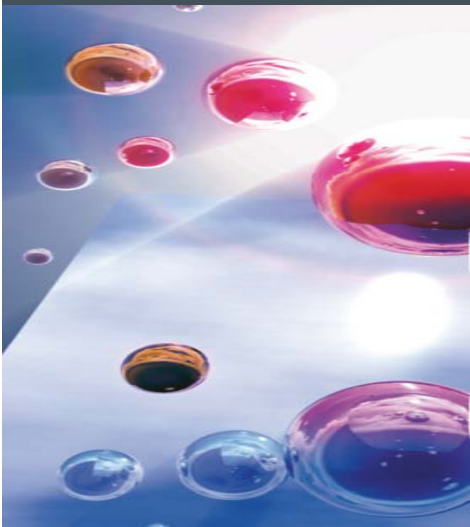
Medizintechnik

Neue Werkstoffe

Virtual Prototyping, Simulation

Forschung, Entwicklung und Studium

Neues Denken: Customized Products

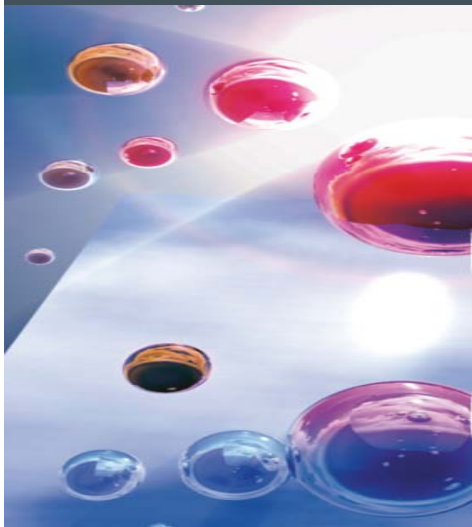


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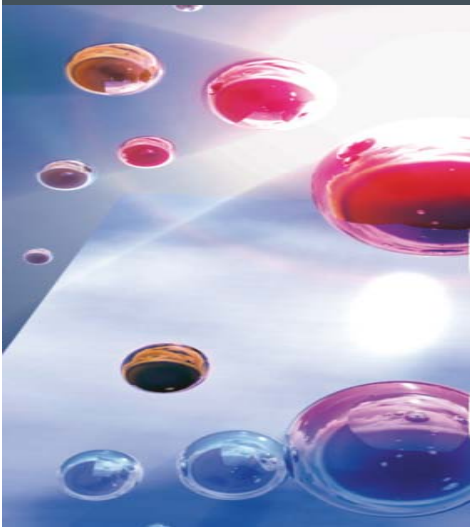
Vielen Dank für die Teilnahme!

Download der Vorträge:

<http://www.hs-owl.de/fb7/daten/rpt>

Bitte merken Sie schon vor:

**17. Fachtagung Rapid Prototyping
am 16. November 2012 in Lemgo**



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Auf Wiedersehen bei der
17. Fachtagung Rapid Prototyping
am 16. November 2012 in Lemgo

Get together

Finger - food and great talk

