



The leading international network for industrial Additive Manufacturing

On time with 3D printing

Arvid Eirich

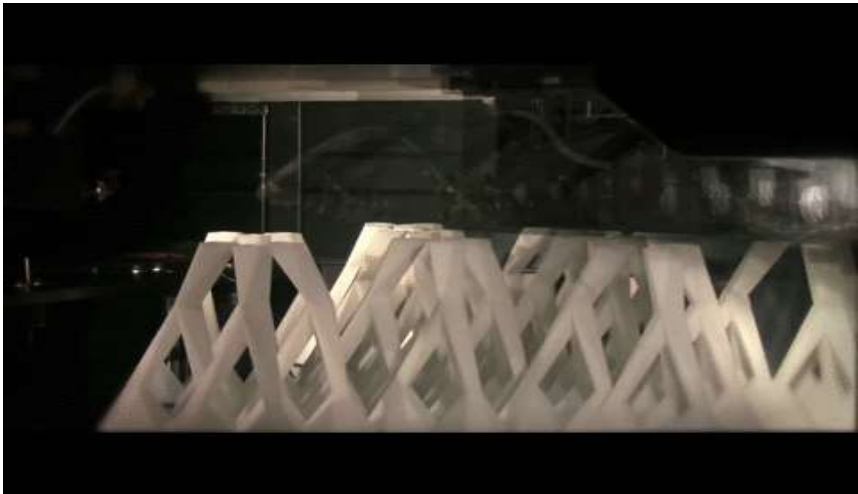
Technical Director "Mobility goes Additive" and
project 3D printing@Deutsche Bahn

Where the magic happens



3D printing / Additive Manufacturing

Fused Deposition Modeling (FDM)

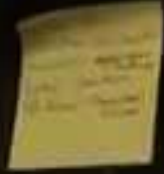
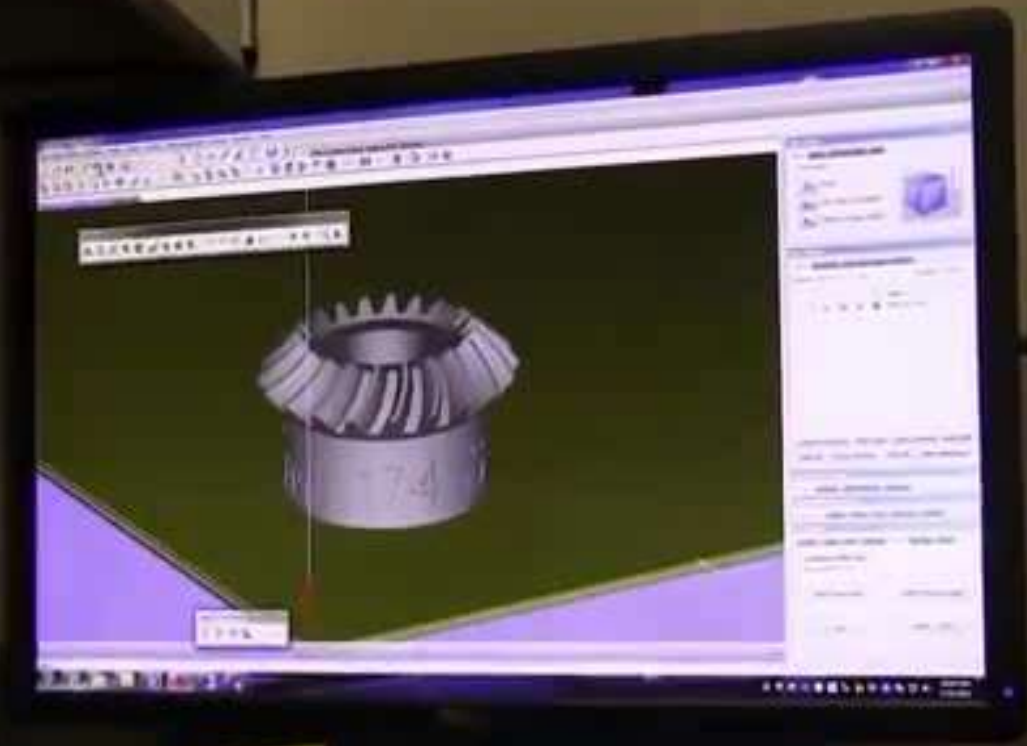


Source: i.materialise.com/

Selektive Laser Melting (SLM)



Source: EOS GmbH



3D Printing



200.000€ - 1.300.000€



400.000€



2.500€



2.200€

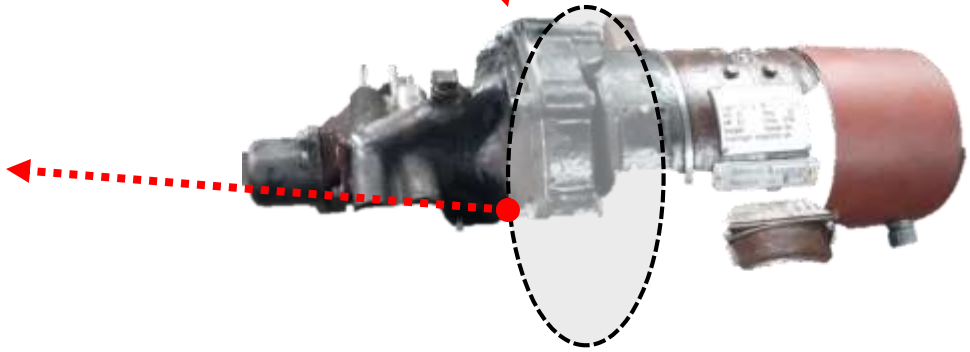
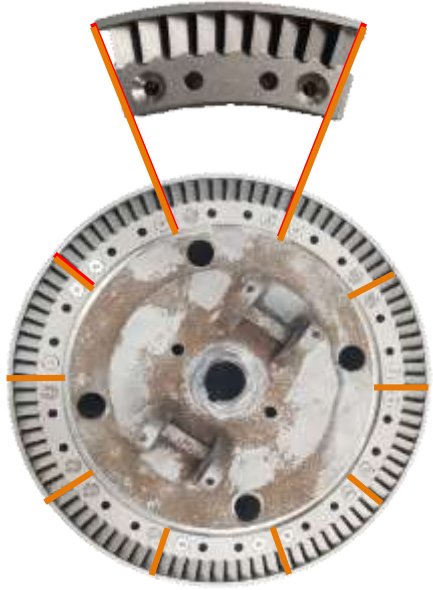
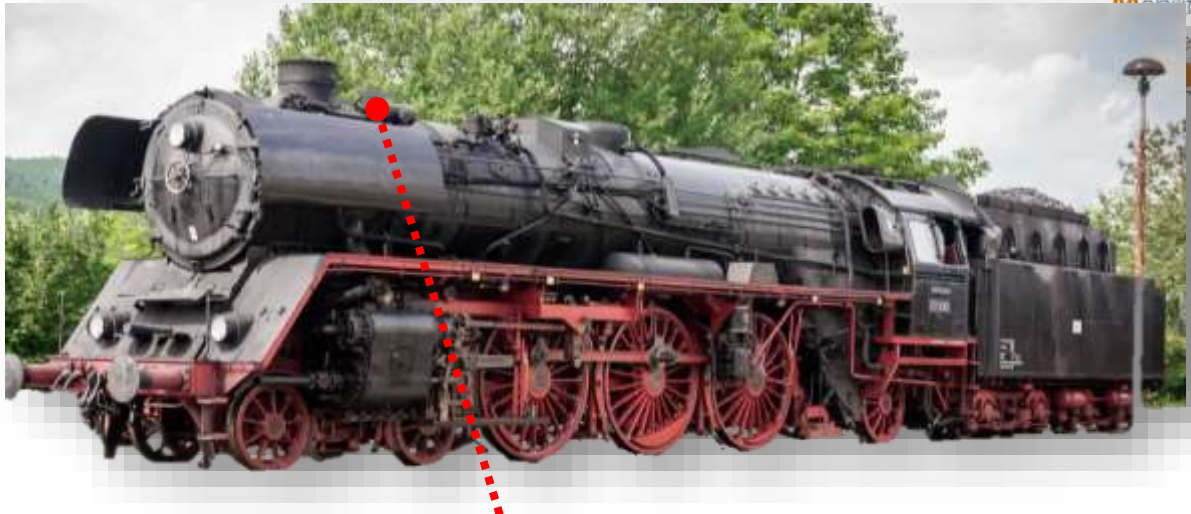


100.000€

Numbers of users and use cases is increasing



Keeping old technology alive



Including more safety and comfort



Cutting down waste of materials







Copyright: Under Armour



Copyright: EOS

Sounds interesting?



What is it that pushes the service providers?

Abfahrt *Departure / Départ*



Zeit <i>Time/Temps</i>	Über <i>Via</i>	Ziel <i>Destination</i>	Gleis <i>Platform/Voie</i>
13:30	RE 13059	Burg Stargard	2
13:31	RE4	Oertzenhof - Strasburg - Pasewalk	
13:32	RE 18510	Gnevkow - Utzedel - Demmin - Grimmen	
13:34	RE4	Malchin - Teterow - Neu Wokern	2
14:30	RE 18513	Oranienburg - Berlin	
14:31	RE4	Lübeck Hbf Luckenwalde Ueckerm. Stadthf.	
14:32	RE 13060	Gnevkow - Utzedel - Demmin - Grimmen	2
14:34	RE4	Kleeth - Malchin - Teterow - Lalendorf	
Stargard (Meckl). Bitte Aushänge beachten! +++			15/23:30 Uhr bis 1
Bauarbeiten vom 07. Mai 2015			

Current problems are solved
with proven solutions



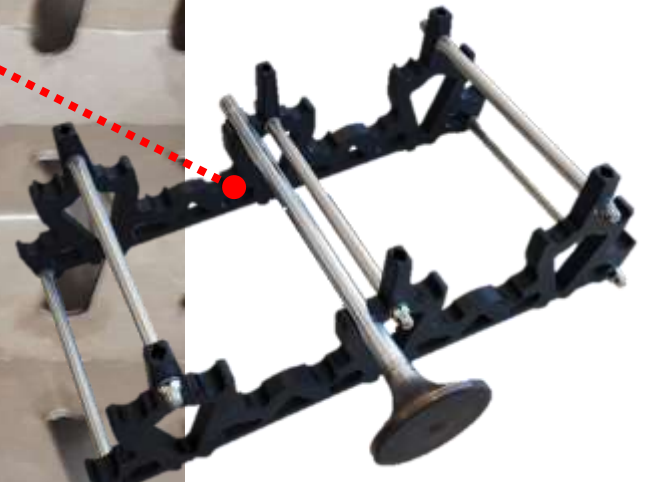
Start with simple replacements



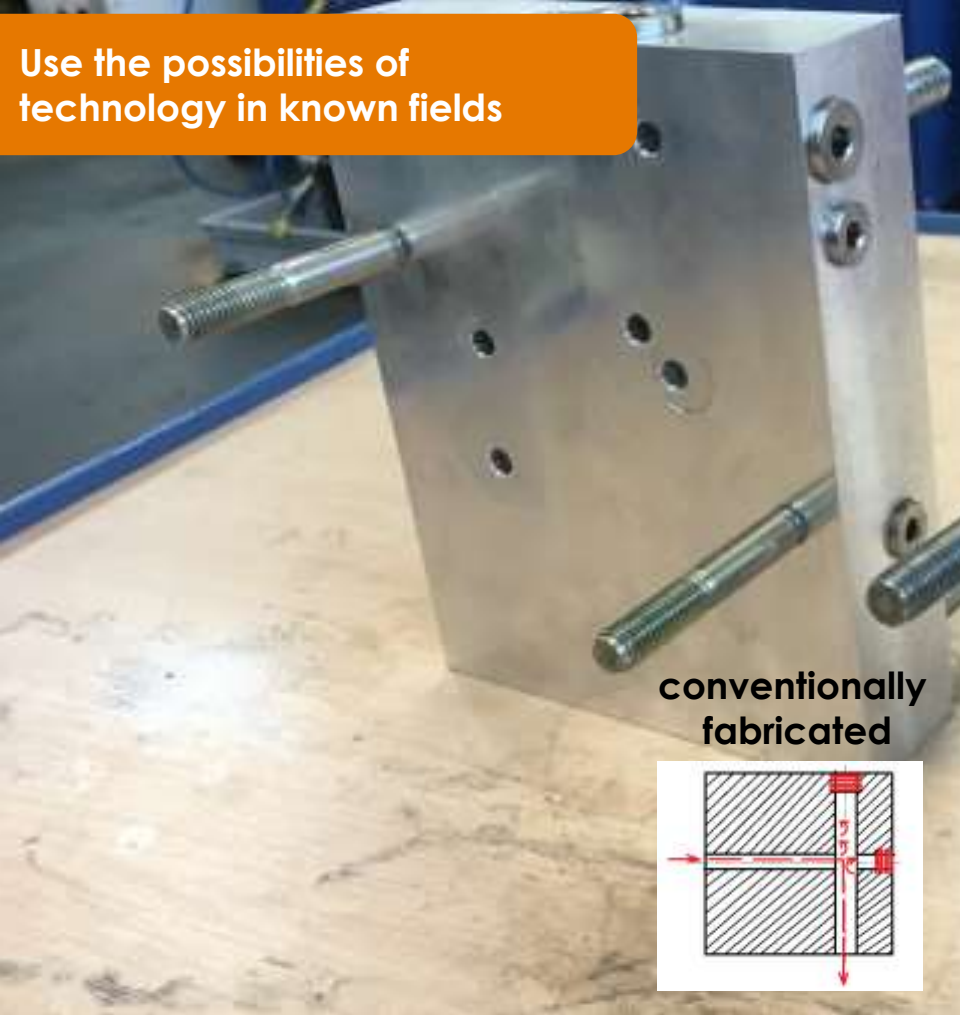
Increase the variety of use cases



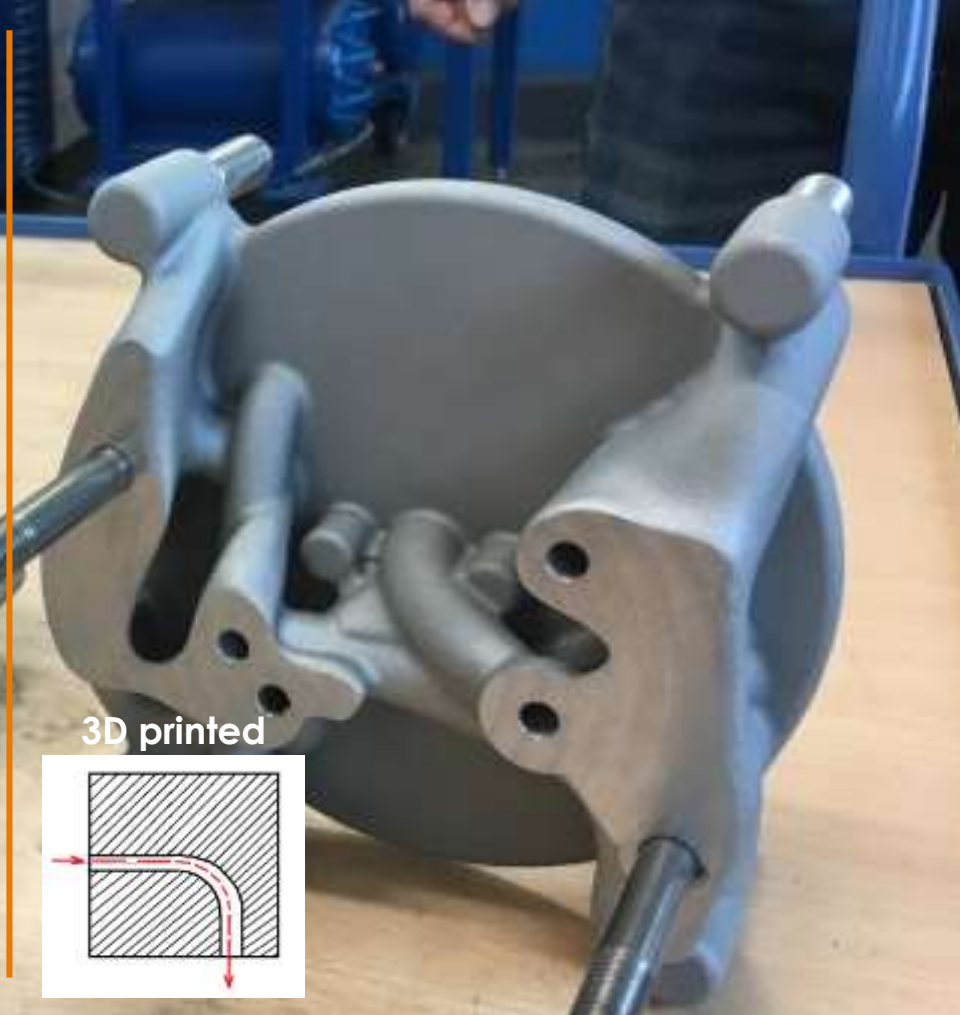
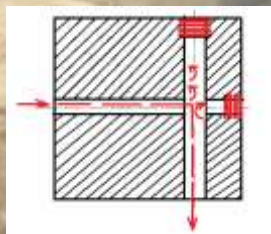
Gain more knowledge
with simple tools



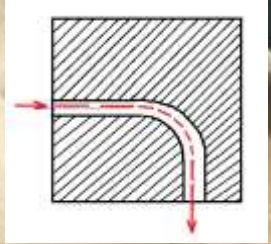
Use the possibilities of technology in known fields



conventionally fabricated



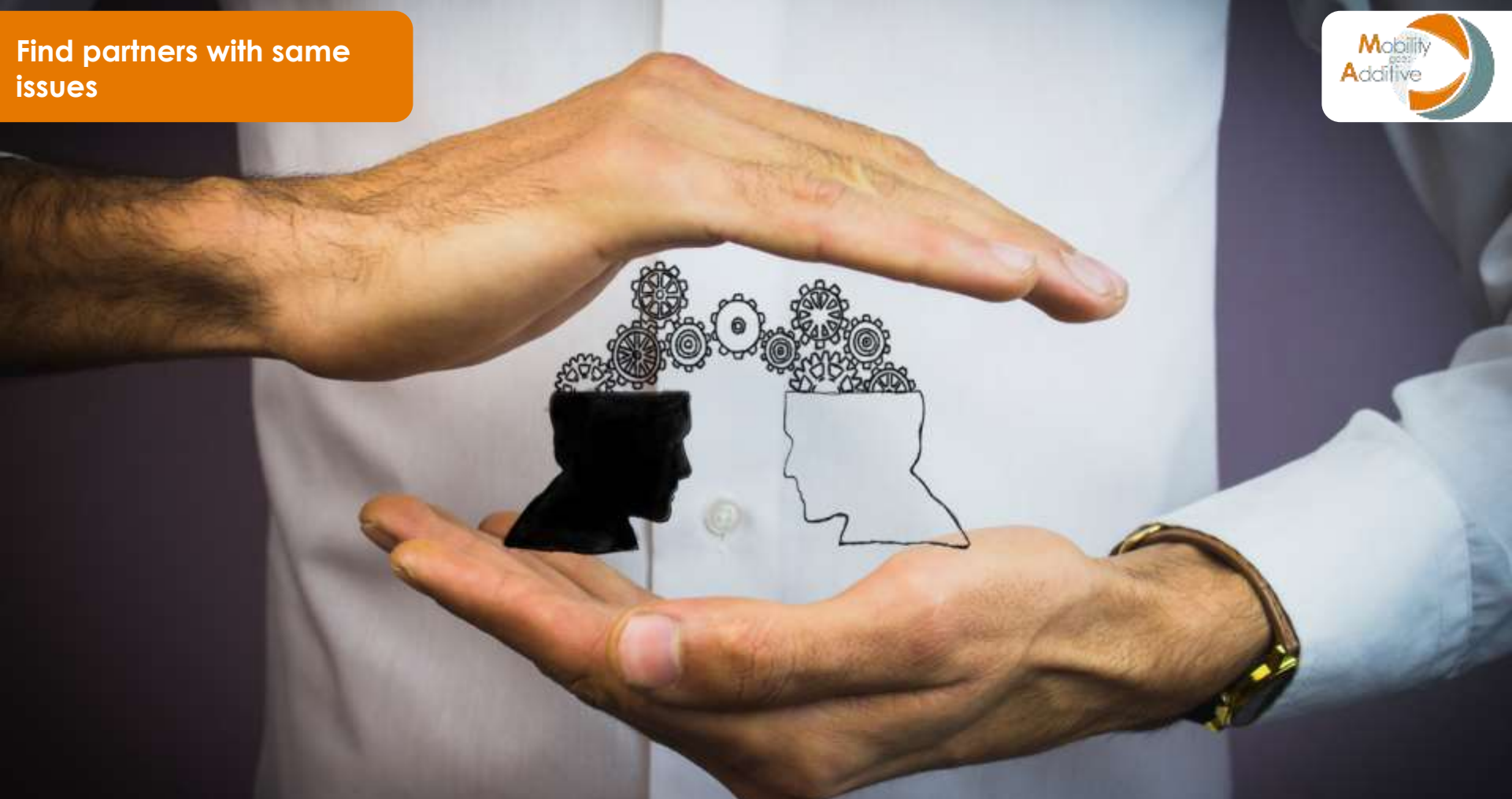
3D printed



Find the low hanging fruits



Find partners with same issues



Together is better than alone

XERION
BERLIN-LABORATORIES

Bundeswehr

JSC Technology
AMEXCI

LaFT
Laboratorium
Fertigungstechnik

LZS

SOLIDTEQ
RHEINMETALL GROUP

3dTrust

BIONIC PRODUCTION

GMH GRUPPE

GEFERTEC
Generative Fertigungstechnik

TECHNISCHE UNIVERSITÄT
ILMENAU

EF

Rolf Lenk Werkzeug-u.
Maschinenbau GmbH

BERGER
S2B

KIMA
Lehrstuhl für Konstruktion in
Maschinen- und Apparatenbau

DB SCHENKER

HOCHBAHN

OBB

EBK

EF

ILLIES

S

DSCS
Digital Supply Chain
Solutions

LW LEHVOSS
Group

ISEMP

SBB CFF FFS

Fraunhofer
GENERATIV

GKN ADDITIVE

JP
Industrieanlagen

TUV
SUD

Aircraft Philipp
Obereiss GmbH & Co. KG

HHLA

IKK

SBB CFF FFS

Fraunhofer
GENERATIV

GKN ADDITIVE

KARLSRUHE
UNIVERSITY
OF TECHNOLOGY

Apium
Additive Technology Center

KNORR-BREMSE

Mobility goes
Additive

PAUL SCHOCKEMÖHLE
LOGISTICS

TUM
TECHNISCHE UNIVERSITÄT
MÜNCHEN

industrialpartners
design & engineering

CFK
PRODUKTENTWICKLUNG

DMRC

EOS

leupold-legal.com

VOLKSWAGEN
AKTIENGESELLSCHAFT

hp

DLA

INM
Leibniz-Institut für
Neue Materialien

solidpro
Die Unternehmen der Technic Gruppe

SJ

SIEMENS

leupold-legal.com

Additive Industries
Industrial 3D printing for functional parts

WILDAU

KURZ
MOBELFAK

SLM
SOLUTIONS

TRINCKLE

TRENITALIA
GRUPPO FERROVIE DELLO STATO

DB

materialise
innovators you can count on

Faiveley
TRANSPORT

PhotonAG
industrial laser applications

FKM
LASER SINTERING
Precision. Speed. Reliability.

HACHTEL

brose

AM Polymer Research

DB

materialise
innovators you can count on

Faiveley
TRANSPORT

PhotonAG
industrial laser applications

FKM
LASER SINTERING
Precision. Speed. Reliability.

PROTIQ
MARKETPLACE

FIT
A 3D PRINTING MANUFACTURING GROUP

iGo3D

trinckle
3D printing solutions

AUTODESK.

3YOURMIND

BASF
We create chemistry

McKinsey
&Company

bp blue
production

HOFMANN
DER WÄRMEDÄCHER

iGo3D

hasenauer & hesser

bigrep

KEGELMANN
TECHNIK

toolcraft

BASF
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iGo3D

hasenauer & hesser

bigrep

KEGELMANN
TECHNIK

toolcraft

BASF
We create chemistry

INPECA

Ultimaker

bigrep

Deutsche Plasser

LEO Lane

3D SYSTEMS

CHANGE







Mobility
goes
Additive

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mobilitygoesadditive.com

Belief in the technology



Companies want to start with the holy grail ...



But what is the way to be
upfront?



Find together a way for approved parts



Train your employees on
the new technology





botspot.

Develop new materials together

