

THE JOURNEY TO DIGITAL MANUFACTURING

Christoph Schell
President, 3D Printing and
Digital Manufacturing



TRANSFORMING INDUSTRIES

FOURTH INDUSTRIAL REVOLUTION

Massive Societal and
Economic Change

Acceleration of
Digital Manufacturing

Sustainable Impact

CATALYSTS FOR TRANSFORMATION



3D Printing



Industrial
Internet of
Things



Big Data and
Analytics



Robotics



New Ecosystem
Collaboration



Artificial
Intelligence

OUR PORTFOLIO



HP JET FUSION 4200
Production



HP JET FUSION 4210
Mass production



HP JET FUSION
300/500 SERIES
Full color prototyping
and short runs



HP METAL JET
Mass production

MATERIALS
PLATFORM

• INTEGRATED
SOFTWARE SUITE

• BIG DATA AND
ANALYTICS BACKBONE

SCALING TO PRODUCTION



FedEx



JABIL

Medtronic

KTM

FORECAST^{3D}



materialise

Danfoss



proto labs®

GoProto

VERTICAL INDUSTRIES FOCUS

AUTOMOTIVE



INDUSTRIAL



MEDICAL



CONSUMER



AN EXPLOSION OF APPLICATIONS

AUTOMOTIVE

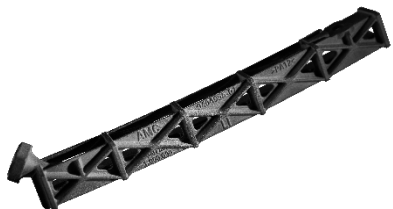
EV BATTERY COOLING



LIGHTWEIGHTING

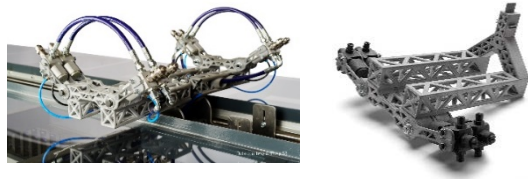


WINDOW GUIDE



INDUSTRIAL

ROBOTIC ARM



TUBE BENDING TOOL



ROBOT ARM GRIP



MEDICAL

DENTAL ALIGNERS



ORTHOTICS



PROSTHETICS



CONSUMER

VR HEADSET AND CHARGER



BIKE HELMET



PERSONALIZED / CUSTOM FOOTWEAR



DIGITAL MANUFACTURING REQUIRES AN ECOSYSTEM

3D Design

Workflow
and Data

Automation

Post-
Processing

Materials

Production
Services

SIEMENS

materialise

GIRBAU
INDUSTRIAL™

BASF
We create chemistry



**DASSAULT
SYSTEMES**

PROTOLABS
Manufacturing. Accelerated.

sculpteo

EVONIK
INDUSTRIES

Deloitte.

AUTODESK

FAST RADIUS

FORECAST3D

GoProto

dressler
group

Henkel

SIGMADESIGN



AND A DATA AND SOFTWARE BACKBONE

OPTIMIZING
PART DESIGN



DELIVERING
PART QUALITY



ENABLING
PRODUCTIVITY



DATA & LEARNING
4+TB of data
generated each build



WHAT'S NEXT: ACCELERATING PRODUCTION

PARTNERS & ECOSYSTEM

Digital Manufacturing
Network

Design Services
and Software

Digital Manufacturing
Integrators

HP SYSTEMS INNOVATION

Productivity, Quality,
and Performance

Software and Data

Materials Innovation

CUSTOMER SUCCESS

Vertical Focus
(eg Automotive)

Driving More Applications

Service and Support



THIS IS NOT YOUR FATHER'S HP!

INDUSTRIAL TRANSFORMATION REQUIRES NEW WAYS OF DOING BUSINESS

Market
Creation
and HP's
Unique Value

E2E Vertical
Focus,
Insights, and
Expertise

New Thinking,
New Business
Models

Building New
GTM, New
Opportunities
for Partners

NOT JUST THE FOURTH INDUSTRIAL REVOLUTION,
A SUSTAINABLE REVOLUTION



The background of the entire image is a deep blue with several bright, glowing blue and green light rays or laser beams crisscrossing across it. Scattered throughout the scene are numerous 3D printed mechanical components. On the left side, there are several small, elephant-shaped parts with a porous, lattice-like texture. In the center and right, there are larger, more complex parts including circular gears with intricate internal patterns, a circular plate with multiple small holes, and various other mechanical brackets and connectors. The overall aesthetic is high-tech and futuristic, emphasizing advanced manufacturing technology.

CHANGING THE WAY THE WORLD
DESIGNS AND MANUFACTURES

DRIVING THE
NEXT DIGITAL
INDUSTRIAL REVOLUTION

A woman with long brown hair is seen from behind, looking out over a futuristic city at sunset. The city features a large pyramid-like structure, a geodesic dome, and several tall, modern skyscrapers. A winding, glowing blue track or path runs through the city. The sky is a warm orange color, and the overall scene is bathed in the golden light of the setting sun.

THANK YOU

