

3YOURMIND CUSTOMER USE CASES



USE CASE

Leading Automotive OEM

Goal:

Internally coordinate and schedule AM projects to streamline activities across multiple production sites.

Challenge:

Sub optimal project coordination and lengthy production management processes.

Solution:

3YD Shop-floor automation software Agile ERP and MES. Improving order management, reporting and machine utilization, thus saving an estimate of **\$1,000,000** in operational cost per site per year.

Results:



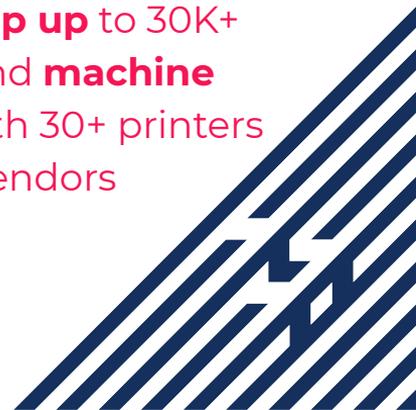
Time reduction of 79% for project coordination and 83% for data preparation



Reduction of necessary process steps by 90% for project coordination and by 73% for data preparation process



Production ramp up to 30K+ parts per year and **machine connectivity** with 30+ printers from different vendors



USE CASE

National maritime defense

Goal:

Find AM use cases for R&D and create a centralized AM Hub for all organizational branches.

Challenge:

Quickly be able to print at point of need while being connected to existing hard- and software. Guarantee outstanding IP protection for sensitive parts and processes.

Solution:

Holistic on-premise implementation of Agile PLM, ERP and MES. Robust APIs and machine connectivity for streamlined processes.

Results:



First on-premise installation within 3 months



Meeting all customer **connectivity** and **security requirements**



Established **blueprint for distributed manufacturing: second site** was set up shortly after



USE CASE

Multinational Oil & Gas Company

Goal:

Find AM suitable metal spare parts. Efficient part identification to scale throughout the corporate group.

Challenge:

Almost no technical part documentation (3D data, technical drawings). Very old spare parts, messy ERP and lack of AM knowledge.

Solution:

AMPI use case screening for metal parts with two technology recommendations (WAAM and DMLS). Identification of part categories. Creation of 3DP supplier network.

Results:



Batch assessment of **parts from 4 different oil fields**



10% suitable use-cases found within **valves, impellers and crossheads**



Parts identification process **10X faster**



Establish **Digital Warehouse Roadmap**



USE CASE

Leading home appliance OEM

Goal:

Finding Use Cases for new PA6 Printer Technology

Challenge:

Cost uncertainty of new process, different criteria than for standard AM Parts and messy ERP data for evaluation.

Solution:

AMPI (AM Part Identifier) algorithms tailored with internal AM team. Creation of internally and externally available parts library and Agile ERP for ordering and pricing.

Results:

€ **50-70% average cost saving per AM part** compared to conventional manufacturing

 Qualification processes times **reduced and standardized**

 **70%+ time reduction** in finding suitable use cases

USE CASE

Leading medical company

Goal:

Running an AM serial production for medical equipment components

Challenge:

Operating a Machine Park with:
8+ Machines , **14+** Materials, **15.000+** Parts/year,
\$855.000+ Order Volume/ ear

Solution:

Shop-floor automation with **3YOURMIND's ERP**
+ MES

Results:



Allowing to handle **6800 parts (50% increase)**



\$435k additional revenue with existing machines



Significant reduction of production **steps** and total production **time**

USE CASE

Leading railway company

Goal:

Find new AM part to reduce lead time, decrease production costs, add supply chain resilience

Challenge:

Aging machines without suppliers, lack of AM knowledge, collecting information from across european repair locations

Solution:

3YOURMIND AM Part Identifier Software.
Platform is available for **field workers** who submit parts, then with that data parts are qualified for 3D printing

Results:



Each strong AM business case saves **50%-70% over current procurement methods**



Qualification processes is **standardized and optimized**



Reduction of lead time on some casted parts **from 10 to 5 months** achieved

USE CASE

Contract manufacturer for luxury goods

Goal:

Setting a paperless system from order intake to production, implementation of automatized price engine, reduction of the time spent on quoting

Challenge:

Mass production of all kinds of models of Chanel mascara brushes, replacement and improvement of ERPRO's current workflows

Solution:

Digitalization of the workflows with 3YD's Agile ERP

Results:



Comments and processing steps **tracked digitally accessed by QR Code**



Reached **1,000,000 parts per month** using Biosourced PA11 with **>10 machines** and **24/7 production**



Reached **high-level Quality Requirements**



USE CASE

Leading railway company

Goal:

Reduce the costs **of spare parts using AM**

Challenge:

Poor technical information (no 3D drawings) and messy ERP data for spare parts, lack of AM knowledge

Solution:

3YOURMIND Agile PLM Software

AM Part Identification reduced by 50% compared to the manual process.

Technology recommendation and **automatic pricing** for AM parts in **WAAM, DMLS and FDM**.

Distributed manufacturing enabled.

Results:



10.3 % of relevant AM parts identified over 30K+ spare parts



AM parts delivery in **10 business days**, shortened average lead time by **2.5 months**



€ 1.1 million cost savings per year (considering 0 stock / On-demand printing)



Thank you!

If you have any questions, you can contact



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