



materialise **co-am**

## Enhancing Your **Supply Chain**



# Overview

Industry 4.0 and additive manufacturing are changing the world of traditional manufacturing by enabling more connected and agile factories. However, this process is not tried and true and the lack of connectivity and data in modern factories is rearing its ugly head.

In order to harness the immense power that Industry 4.0 affords manufacturing, connected software solutions along the digital thread are necessary.

## **Typical Factory Floor:**

- Additive Manufacturing Machines
- Varying Software
- ERP
- PLM

This disjointed factory floor leads to unreliable metrics and data and thus an inefficient overall manufacturing process. The good news is GrabCAD, in conjunction with our partners IndusIntel and Materialise CO-AM, have the perfect solution.

# IndusIntel: MachineScope

IndusIntel at their core are problem solvers that specialize in improving pre-existing processes with data by using their solution MachineScope. MachineScope's comprehensive dashboarding system affords all manufacturing operations the ability to integrate, scale and achieve broader success.

By implementing this technology with your 3D printers and current factory floor, you will reap the benefits of accurate, timely data points to drive your execution.

## Improve operations efficiency

- Additive builds are complex and take a long time to complete. MachineScope's just-in-time notifications avoid waiting in front of the printer.
- Know about excessive machine downtimes and plan for material availability to avoid build delays.
- Out of the box KPIs and dashboards saves time and efforts assembling data and creating historical reports.

## Data driven cost analysis and cost optimization

- "Manufacturing as a service" is the future of additive, powered by creating detailed usage KPIs to charge for the service.
- Paperless logging of cost-sensitive operational activities enables accurate analytics to identify areas of cost optimization.

## Single pane of glass for operations visibility

- 80% of Additive manufacturers will need a factory workflow management system.
- Single system for scheduling, build versioning, policies management, monitoring machines, performance and analytics.
- Easy to use, multi-vendor closed loop workflow management system.

"MachineScope will help you uncover the gaps in your operations continuity as well as optimize the cost."

Sachin Saswade  
IndusIntel CEO

**80% of additive manufacturers will need a factory workflow management system.**

# Materialise: CO-AM Software Platform

Materialise is a leader in additive workflow and manufacturing execution system software. Materialise enables businesses to scale their additive manufacturing infrastructure by allowing third party enterprise systems to integrate into their platform.

By connecting IT, hardware and software technologies with APIs, 3D printing businesses can improve overall visibility to their additive manufacturing processes - leading to increased productivity and machine utilization.

## Powering innovation

Materialise works to provide highly regulated industries the end-to-end infrastructure that enables capturing, managing and reporting of manufacturing data.

Industry segments:

- Aerospace
- Defense
- Oil & Gas
- Consumer Goods
- Automotive

## Managing change

Companies must embrace change that comes with Industry 4.0 and Materialise provides support for this process:

- Systems
- People
- Process

## Uniting AM

The current world of additive manufacturing is fragmented and this lack of cohesion leads to inefficiencies in output.

Materialise's goal:

- Workflow Automation
- Connected Digital Thread
- End to End Data Backloop

“Materialise is a additive manufacturing execution system allowing for a connected digital thread and a connected ecosystem helping our customer solve mission critical problems on the additive factory floor.”

Vishal Singh

**Materialise, Sr. Director of CO-AM Platform & Cloud Transformation**

# In Summary

The world of additive manufacturing is on the cusp of breaking onto the main stage of global manufacturing but there are gaps that are holding it back. With solutions like IndusIntel and Materialise, the evolution of manufacturing through 3D printing can continue.

To learn more about Stratasys' Software Partners, visit: [grabcad.com/featured-software-partners](http://grabcad.com/featured-software-partners)

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