

# ADDITIVE MANUFACTURING EUROPEAN CONFERENCE



## Resilient supply chains with AM

MARIEL DIAZ – CEO Triditive

Triditive is a Spanish company leading the digital transformation of the industry.  
We are developing a disruptive **additive manufacturing technology**.

More than 2M€ investment to revolutionize the manufacturing industry

**STANLEY**<sup>®</sup>  
Ventures

  
techstars<sup>®</sup>

**hu·em**  
Hunosa empresas

 GRUPO  
**IDEPA**



TRIDITIVE develops pioneering technology to bring AM to the production floor



**AMCELL® 1400**  
Short batches, Increased printing volume  
Scalable solution (Polymer & Metal).

**AMCELL® 8300**  
High production capacity.  
Automated production (Polymer & Metal).

# Create your digital inventory and manufacture on-demand!

Machine monitoring and shopfloor connectivity

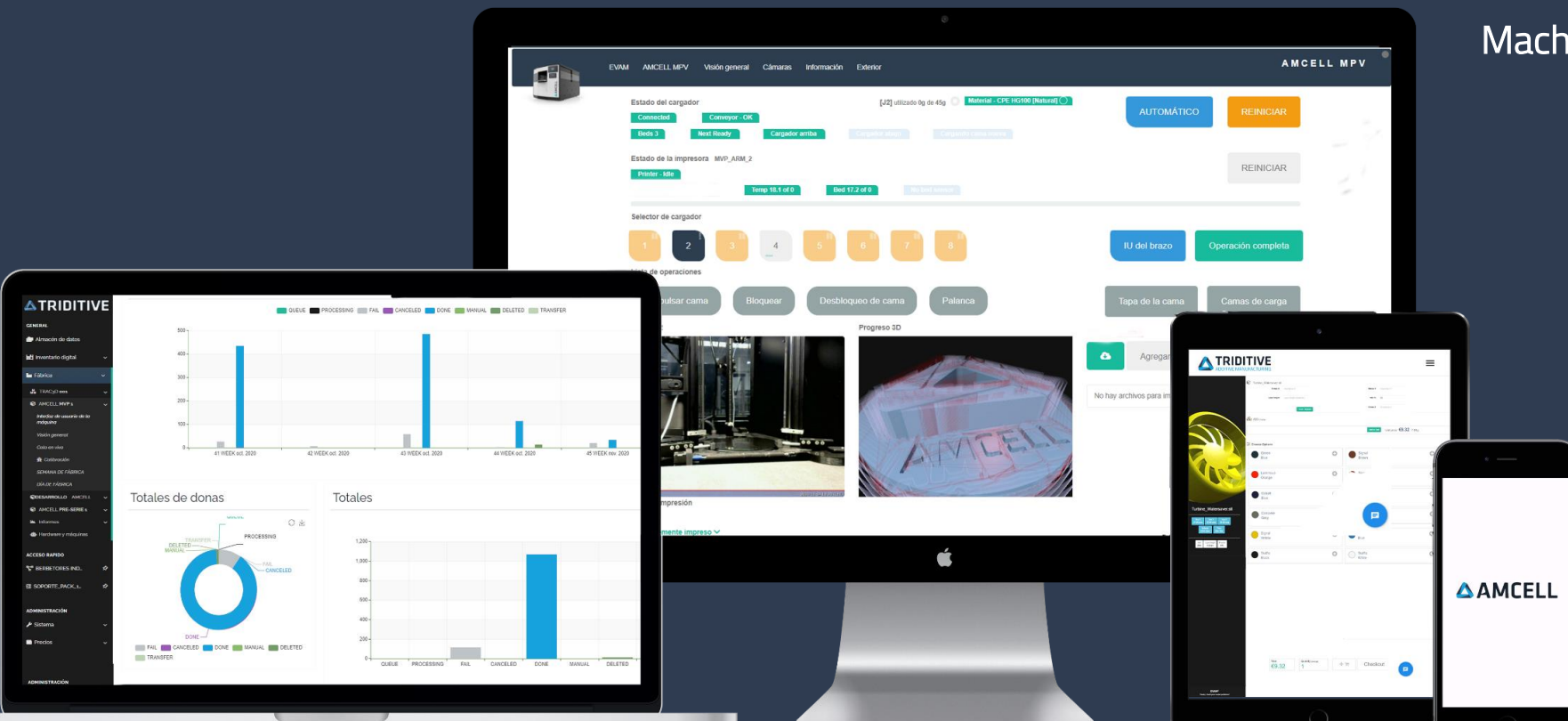
Build simulation and scheduling

Automatic quotation engine

Scaling of production

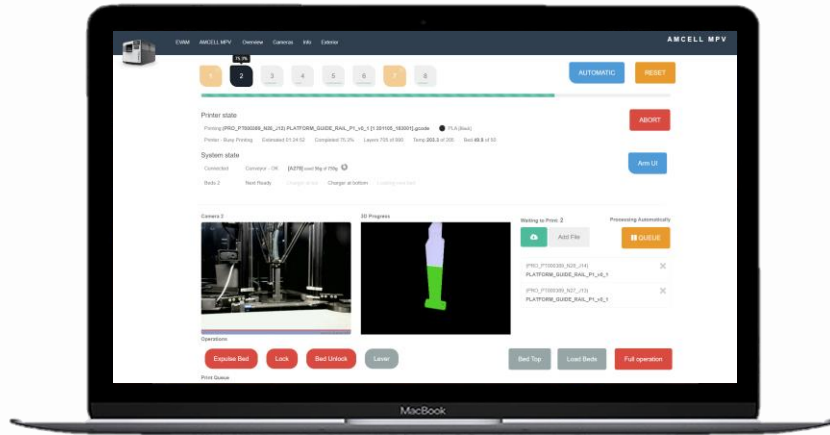
Digital inventory

Traceability



# Digitalization of the supply chain with AM

## Machine



Monitor the status of the machine. Connectivity to extract data and push the data into the cloud.

## Factory



Monitor the production line using real data that comes from the shop floor and bring it into the MES system.

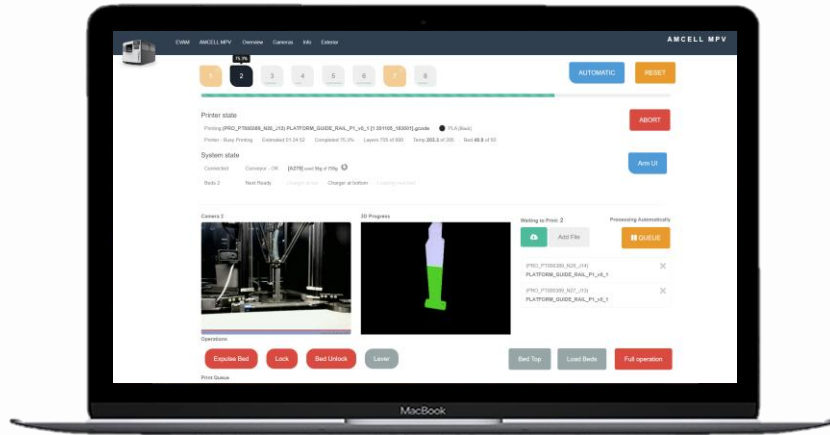
## Process



Get direct information about the part quality. Insights about the printing and use this knowledge to improve process parameters

# Digitalization of the supply chain with AM

## Machine



Monitor the status of the machine. Connectivity to extract data and push the data into the cloud.

Deliver machine data live to operator

Allows for remote control and monitoring

Higher machine utilization and optimization of production

Faster reaction time based on real-time machine alerts

Monitor the entire value chain

Higher reliability due to traceability

# Digitalization of the supply chain with AM

## Factory



Monitor the production line using real data that comes from the shop floor and bring it into the MES system.

- Connect different printers
- Digital inventory
- Distribute manufacturing
- Empower local manufacturing and scale
- Seamlessly collect and process your data



# Digitalization of the supply chain with AM

## Process



Traceability and quality assurance is important as we are moving from prototyping to series production.

Reduce the source of failure

Use it for certification processes

Analyze defects and how to solve those defects for next layer

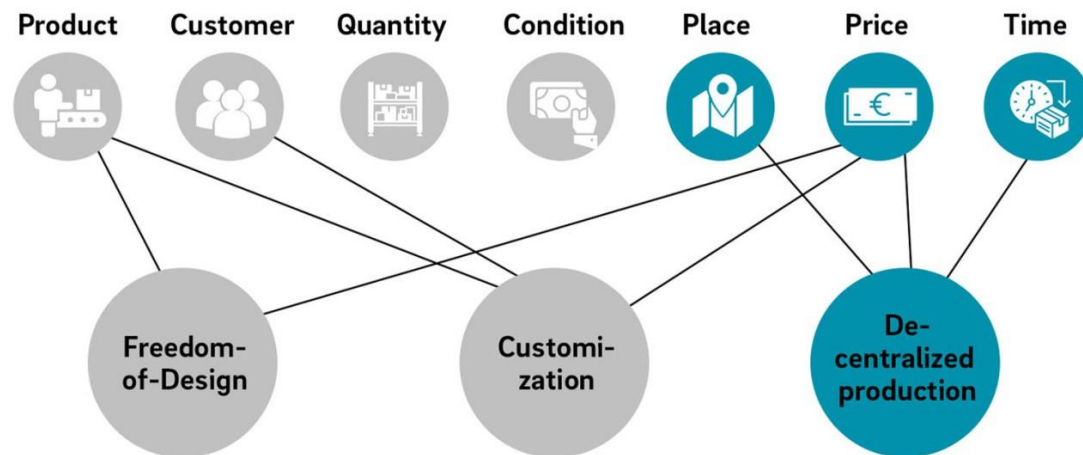
Automation to enhance productivity and reliability

Get direct information about the part quality. Insights about the printing and use this knowledge to improve process parameters

# The AM industry has ensured fast and flexible production in the crisis

## The 3 paths of disruption of Additive Manufacturing

The 7 "rights" of logistics



Source Roland Berger

Roland  
Berger 

“A digital inventory for parts, including spares, production equipment, and products, has the potential to mitigate supply chain risks in several ways. Having parts digitized and ready for printing, with all necessary information available, are faster to source or make. It also facilitates production via additive manufacturing, even if that option is reserved for emergencies only”

# How different sectors can benefit from the combination of digital supply chain and AM



Cost-savings

AM advantage  
70%



Lead time shortage

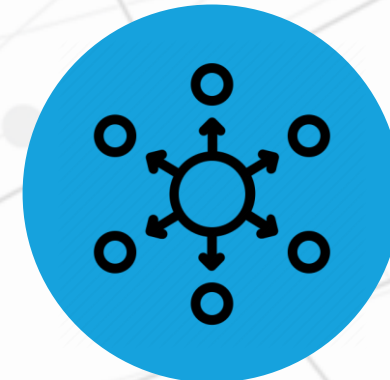
AM advantage  
70%



Quality

AM advantage  
similar

The whole Industry experienced a shift this year with the COVID-19 pandemic. Supply chains were disrupted, production lines were halted, and budgets were cut.



DESCENTRALIZED  
PRODUCTION

# “Automation becomes crucial when AM transitions from prototyping to mass production”

Source: McKinsey & Company



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