



# The Green Manufacturing Platform

Reduce harmful emissions and manufacturing's impact on the environment with the Xelerate platform.

\$140 Billion Total Addressable Market

3 VERTICALS



Aerospace



Medical



Industrial

Top 85 Aerospace Startups, 2020  
Top 100 Medical Startups, 2020

3 Department of Defense Contracts Awarded



2 Medical Contracts Awarded



8 Proof of Concepts Completed

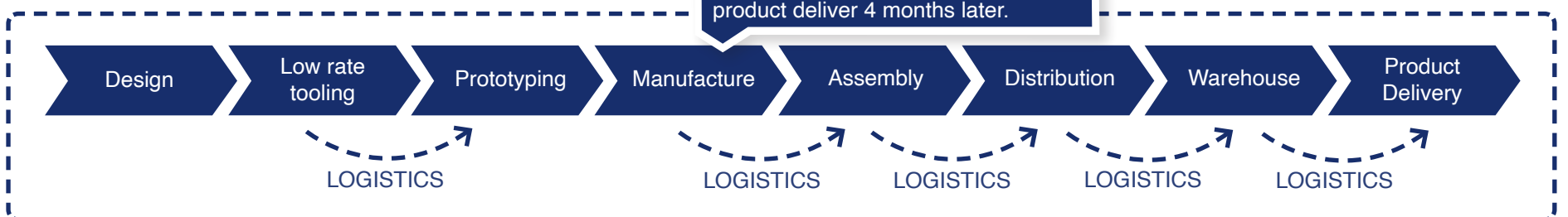
2 Patents Awarded

13 Patents Filed

Additive manufacturing (AM) ability to produce on-site, on-demand applications reduces warehousing and transportation needs – and more than 80 percent of harmful emissions and 90 percent of a manufacturing operation's impact on the environment are related to those supply-chain requirements.

## Non-Environmentally Friendly Manufacturing (Months)

Average wait time for a forging or casting is 87 weeks with a finished product deliver 4 months later.

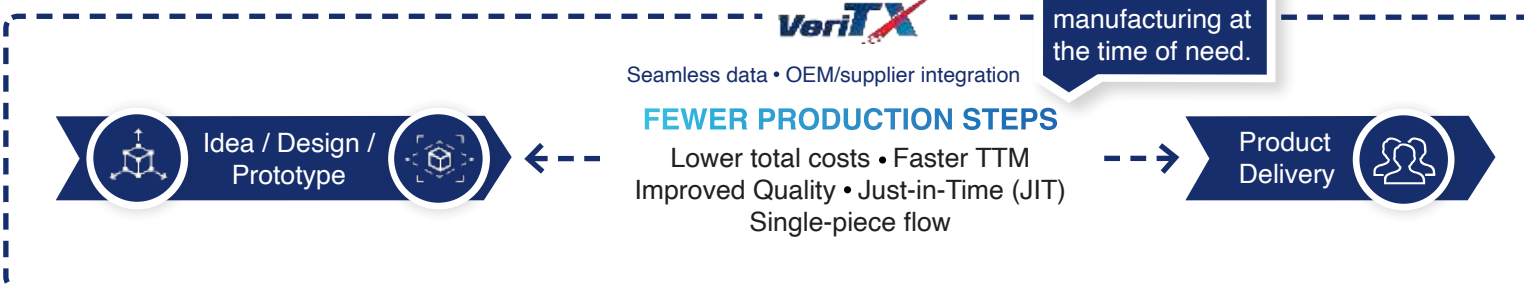


## Environmentally Friendly Manufacturing (Hours)



Seamless data • OEM/supplier integration

Point of use manufacturing at the time of need.



Customer & End-User  
GREATER THAN 50X Increased responsiveness possible

## Example Secure Digital Supply Chain Advantages:



### Cost

- Total costs: -30%
- Waste: -90%
- Prototyping time: -60%
- Non-value add costs: -80%



### Performance

- Up-time: +25%
- Mx errors: -30%



### Quality

- Inspection time: -40%
- Correct paperwork: +100%
- Authentic part: +100%



### Time

- Part lead times: -100x
- TTM: -4x
- Suppliers: -25%



### Security

- IP proliferation: -99%
- Production hacks: 0
- Date breaches: -99%



### Data

- Useful insights: +80%
- Meta-data usage: +80%
- Info flow speed: +70%



## Green Aerospace Case Study

Consider a single, 3D-printed latch on an aircraft: It's cheaper to produce, lighter in weight, and when amortized across an airline fleet, can save \$20 million while reducing CO2 emissions by 8,000 lbs. per plane per year.<sup>1</sup>

Source: <https://www.ien.com/additive-manufacturing/blog/21202882/challenging-the-four-big-myths-of-additive-manufacturing>



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