

January 2019 Corporate Update

Presented by David Budge CEO
Aurora Labs Ltd.

January 2019

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Corporate Snap Shot

ASX:A3D

MARKET CAPITALISATION AND ENTERPRISE VALUE¹

Total Ordinary Shares on issue	no.	75,477,196
Share price (23 Jan 19)	A\$/share	0.48
Total Quoted Options on issue ²	no.	3,686,000
Listed option price (23 Jan 19)	A\$/option	0.16
Market Capitalisation	A\$m	36.2
Cash (as at 31 Dec 18)	A\$m	2.5
Enterprise Value	A\$m	33.7

TOP SHAREHOLDERS (23 JAN 2019)

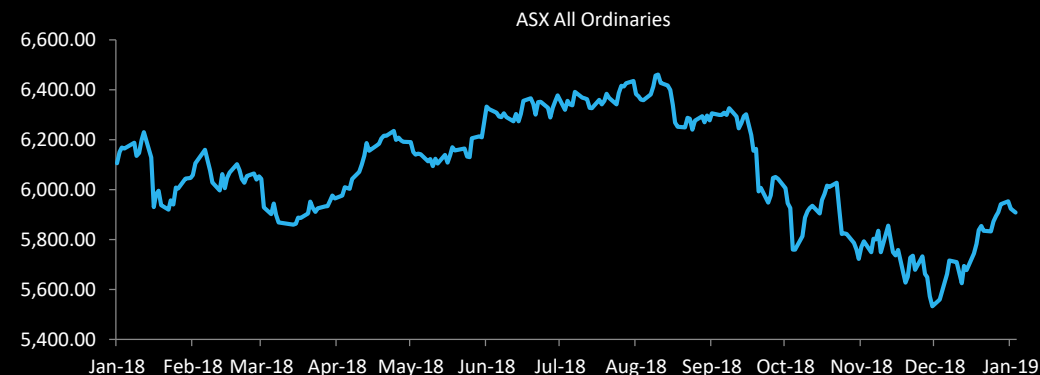
NAME	SHARE HELD	% OF SHARES ON ISSUE
David Budge Managing Director	23,946,785	31.7%
Top 20 Shareholders	41,849,297	55.4%

Notes

1. Excludes unquoted options and performance shares.
2. Listed options A3DO, Exercise Price \$1.00. Expiring 17/04/2020.

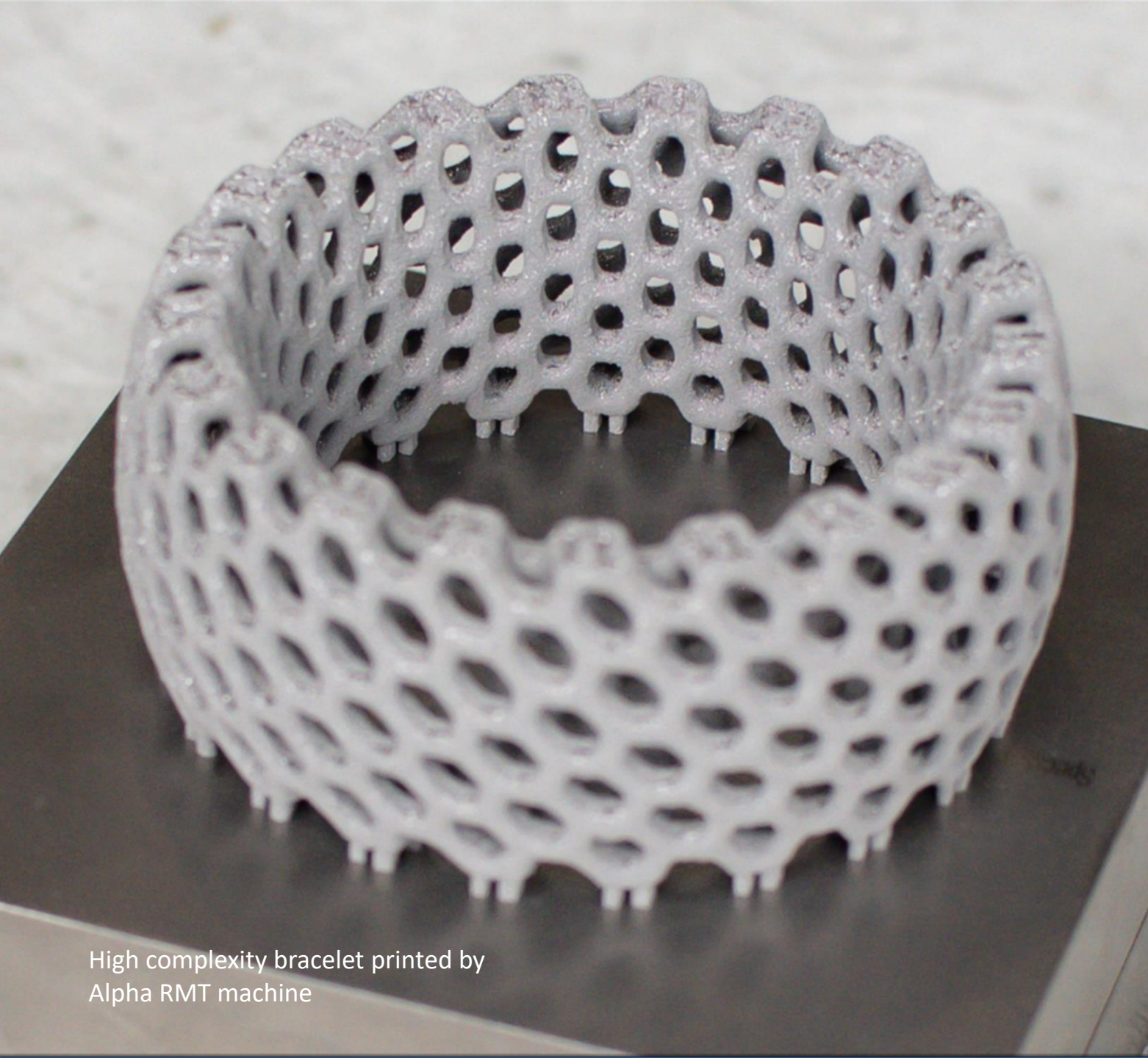
Source: As at 23 Sep 2019, Company Announcements.

SHARE PRICE / VOLUME HISTORY (A\$; MILLIONS)



Aurora Labs

auroralabs3d.com



High complexity bracelet printed by
Alpha RMT machine

Summary

- 🧑‍🚀 Our vision is to challenge and displace tradition metal manufacturing with a cost effective 3D printing alternative
- 🧑‍🚀 Aurora designs and manufactures 3D metal printing machines, consumables and software for the world market
- 🧑‍🚀 Started in 2014 (ASX listed in 2016) to solve the two key problems of 3D metal printing, high machine cost and very slow print speeds.

A Complete Printing Solution

Our complete printing solution (Printing Ecosystem) is currently under development and will potentially deliver:



PRINTERS

Fastest printers in the world



POWDERS

Low cost high quality powders



PARTS STORE

Digitally certified parts available anywhere in the world
Aurora's printers are available



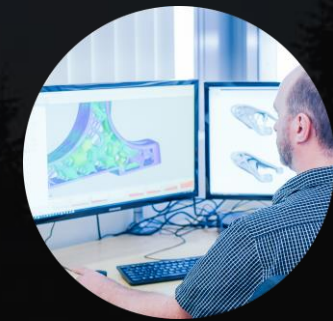
DRM CERTIFICATION

Provide control of production and certification of parts
being fit for purpose



AdditiveNow¹

World class consultancy, advisory, design, qualification
printing and one-off/short run production printing.



¹"AdditiveNow Pty Ltd (ACN 630 628 134) is a company established as an incorporated joint venture between Aurora Labs Limited and Advisian Digital, a division of the WorleyParsons Group of Companies."



Market



GLOBAL METAL MANUFACTURING

Our ultimate market is the global manufacturing market which is expected to reach 4 Trillion dollars by 2020¹



OIL & GAS

Major projects of \$147b by 2019²



AUTOMATIVE MARKET

“The profit of the 17 most important (manufacturers) rose in 2017 to a total of around 106 billion euros (\$121 billion)”³



POWER GENERATION TURBINES

Sales of power generation gas turbines is projected to be \$112.11 billion from 2017-2026⁴



HEAVY EQUIPMENT

Agricultural machinery (sized at about \$126 billion in 2013⁶), construction equipment (valued at \$138.5 billion in 2012⁷) and mining equipment (valued at \$71 billion in 2012⁸)



GLOBAL METAL MANUFACTURING

Requiring some 37,400 new passenger and dedicated freighter aircraft at a value of US\$5.8 trillion over the next 20 years⁵

1. Research and Markets, Global Metal Manufacturing Market Briefing 2018 – ResearchAndMarkets.com, February 21, 2018, <https://www.businesswire.com/news/home/20180221005897/en/Global-Metal%20Manufacturing-Market-Briefing-2018>

2. Source: Goldman Sachs, Top Projects 2018, April 9 2018

3. <https://www.forbes.com/sites/neilwinton/2019/04/03/healthy-global-auto-sales-growth-looks-doomed-in-2019/>

4. <https://www.turbomachinerymag.com/electrical-generation-gas-turbines-will-see-sales-increase-but-overcapacity-looms/>

5. <https://www.airbus.com/aircraft/market/global-market-forecast.html>

6. Global Agricultural Machinery Industry, http://en.wikipedia.org/wiki/Agricultural_machinery_industry.

7. “Construction Equipment Market Analysis by Product And Segment Forecasts to 2020,” Grand View Research, September 2015, <http://www.grandviewresearch.com/industry-analysis/construction-equipment-market-analysis>.

8. “Mining Equipment Market Will Reach USD 117.0 Billion by 2018: Transparency Market Research,” PR Newswire, Oct. 22, 2014, <http://www.prnewswire.com/news-releases/mining-equipment-market-will-reach-usd-1170-billion-by-2018-transparency-market-research-280051182.html>.



2018 Highlights

Continuing development of material parameters including printing complex parts including turbines, valves, etc.

RMT

- 🚀 Printing simple parts rapidly
- 🚀 Printing at 8x market speed
- 🚀 Printing at 20x market speed (40 kg per day)

DNV GL

- 🚀 Term Sheet

VEEM

- 🚀 Term Sheet

PPU

- 🚀 Producing first powder

FMG

- 🚀 Term Sheet

FORMNEXT IN GERMANY

- 🚀 Unveiling core technology to global audience

ADDITIVENOW¹

- 🚀 JV Contracts signed and work beginning soon



¹“AdditiveNow Pty Ltd (ACN 630 628 134) is a company established as an incorporated joint venture between Aurora Labs Limited and Advisian Digital, a division of the WorleyParsons Group of Companies.”

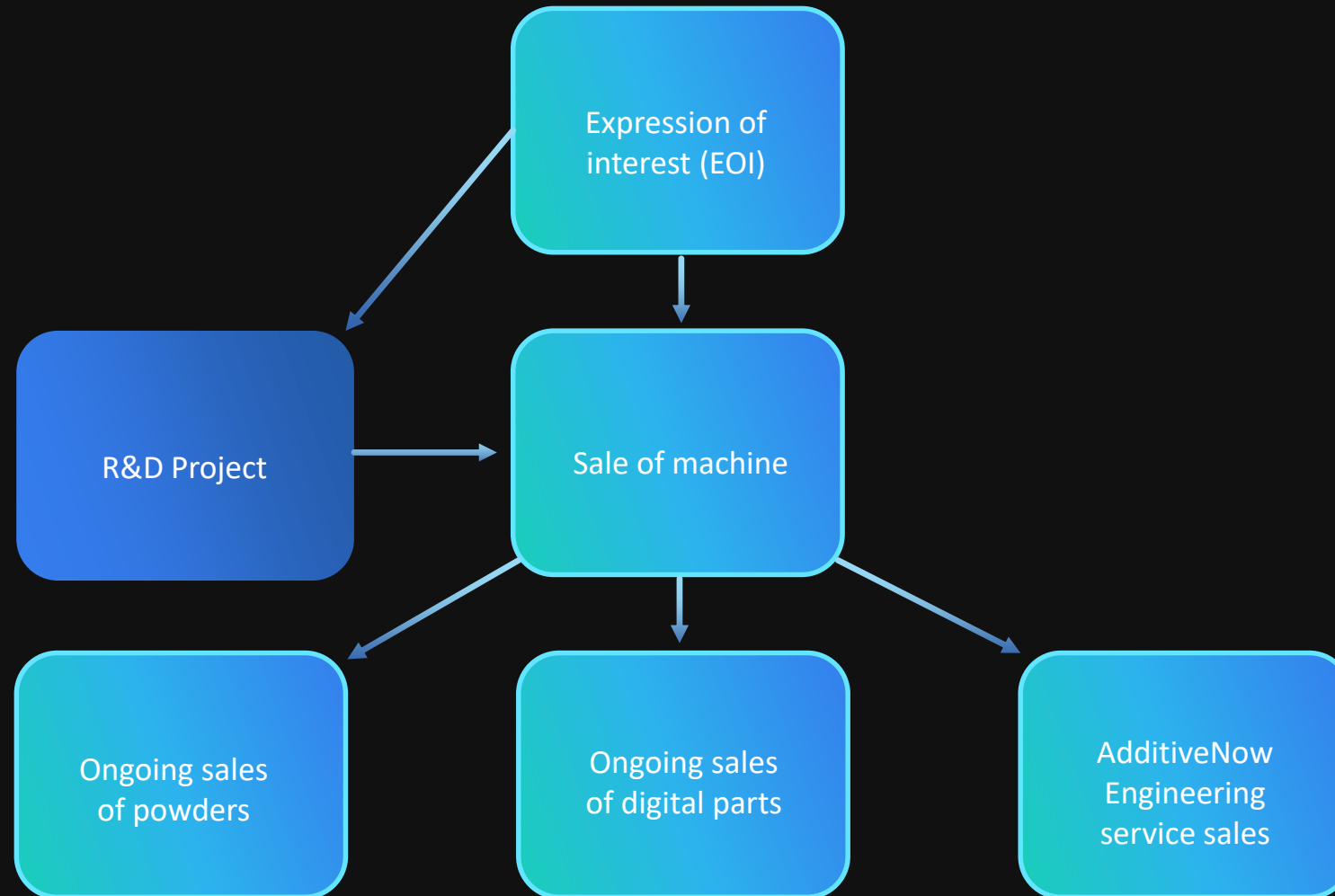


Formnext 2018

- Formnext, held in Frankfurt, Germany, is the world's premier Additive Manufacturing event with 26,919 visitors coming from outside of Germany in 2017
- David Budge explained Multilayer Concurrent Printing (MCP) patent pending technology which enables very fast printing
- Significant interest from the Tier 1 industry leaders present
- 300+ prospects have been processed
- Industries represented include:
 - Power generation turbines
 - Automotive
 - Aviation
 - Chemical processing
 - Heavy machinery
 - Industrial equipment
 - Many others



Sales Process Graphic



Industry Partners

Potential Industry Partners from Formnext



AVIATION / AEROSPACE
1 x USA, 1 x Europe



OIL & GAS COMPANIES
Tier 1



AUTOMOTIVE
1 x USA, 1 x Europe



TURBINE MANUFACTURE
Land based



CHEMICAL PROCESSING
Tier 1



HEAVY EQUIPMENT MANUFACTURERS
2 x USA

AdditiveNow™

AdditiveNow™¹ uses Aurora Labs' rapid manufacturing metal 3D printing technology along with engineering expertise from Advisian Digital to design, produce and deploy complex components for energy and resources operators.



Consultation



Engineering



Short Run Production



Aurora Labs

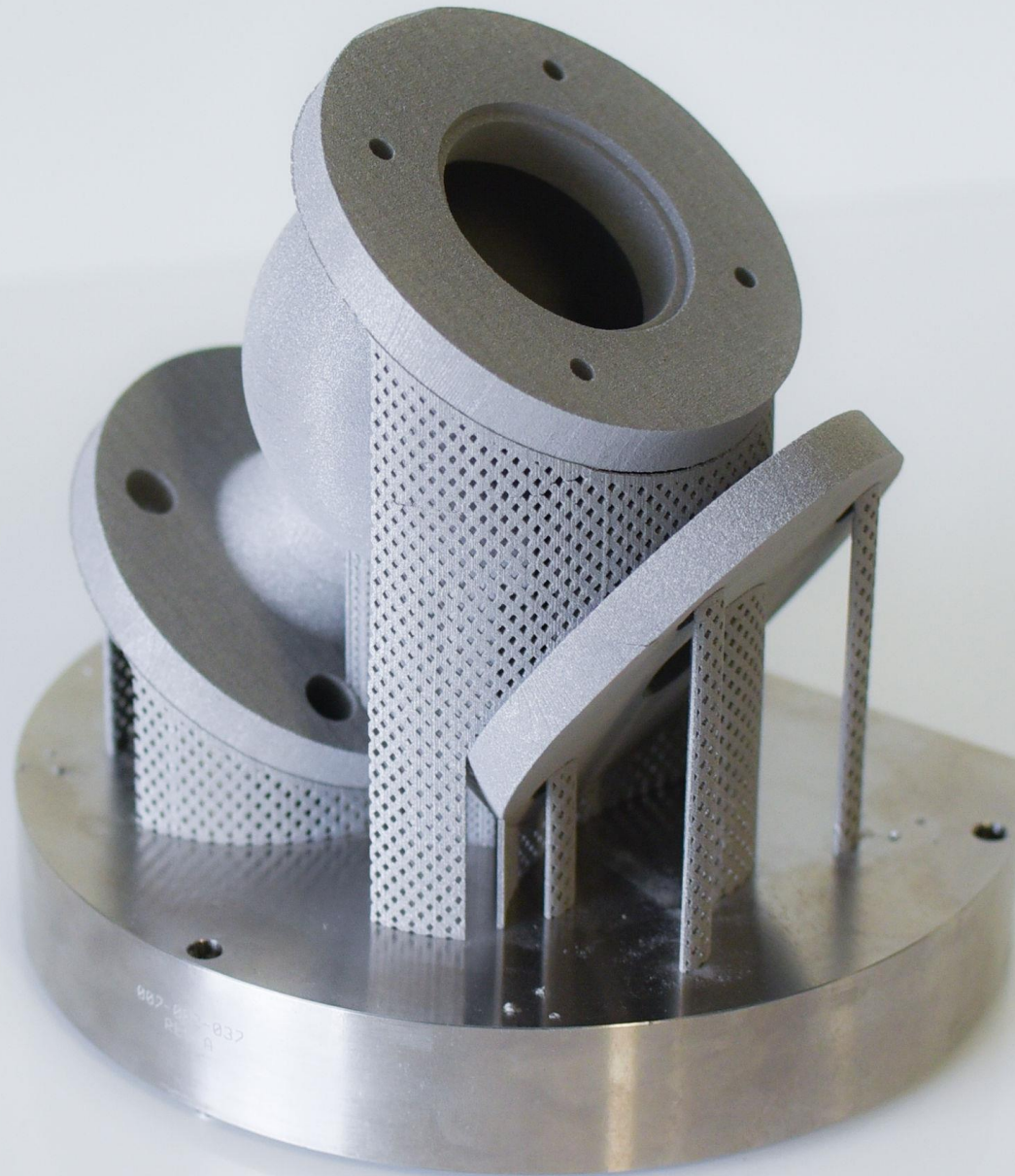
| auroralabs3d.com

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Industry Partners



The Technology





RAPID MANUFACTURING TECHNOLOGY (RMT)

- 👤 Commercially available in 2019
- 👤 A revolution in the high speed mass production of complex metal parts.
- 👤 Order of magnitude increase in printing speeds
- 👤 Large format version of RMT planned with 2.5m x 1.5m x 1m build volume – world's largest



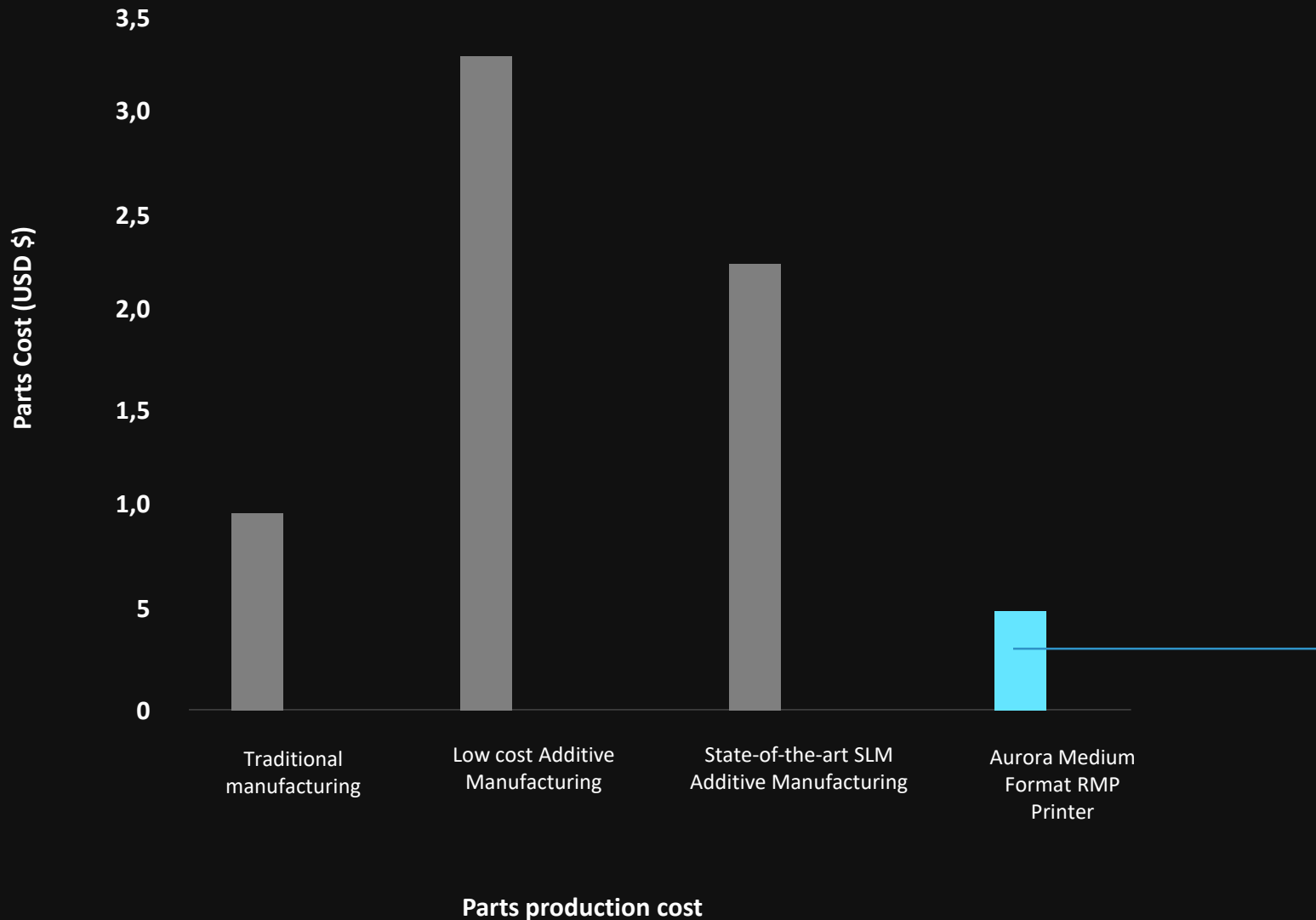
Turbofan exhaust mixer printed on Alpha RMT printer



All parts printed on Alpha RMT printer



The Cost Equation

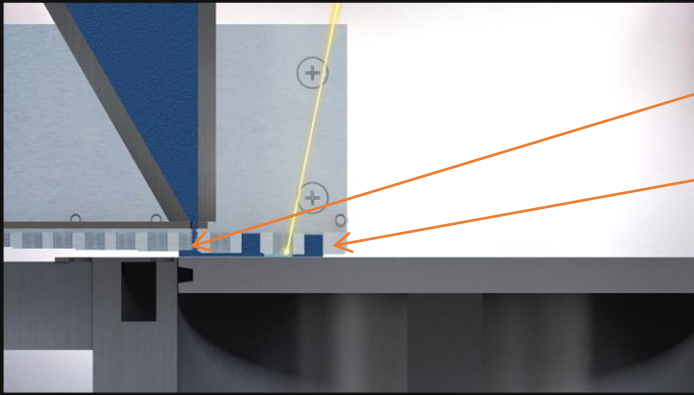


- Order of magnitude increase in production speed
- Leads to an order of magnitude drop in cost of printed parts

$\frac{1}{2}$

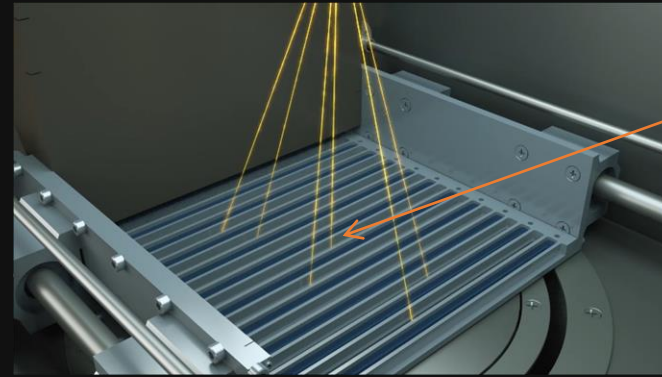
The cost of traditional manufacturing

Part production costs based on manufacturing a Worthington 4LR or 6LR impeller ring

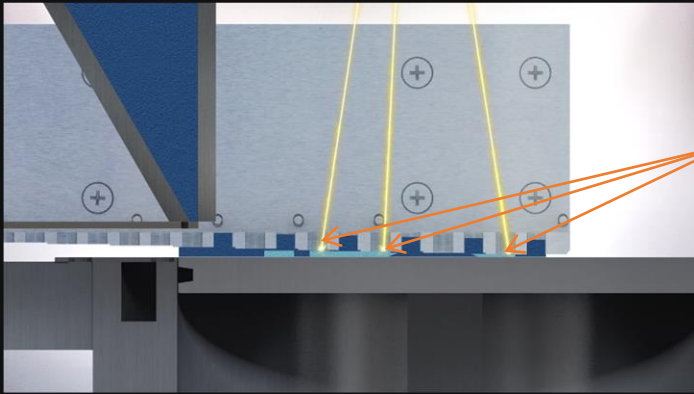


Powder drop

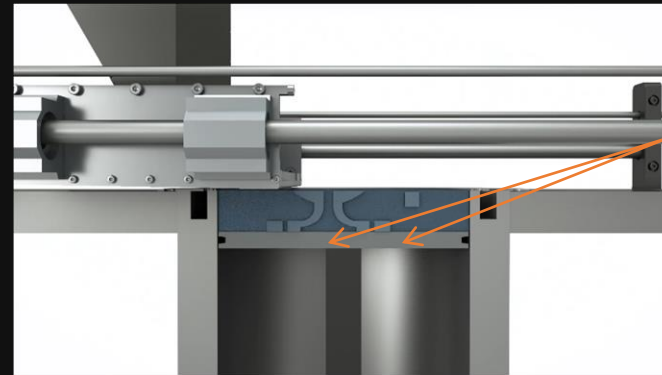
Powder level lowers as bed is coated for layer 1



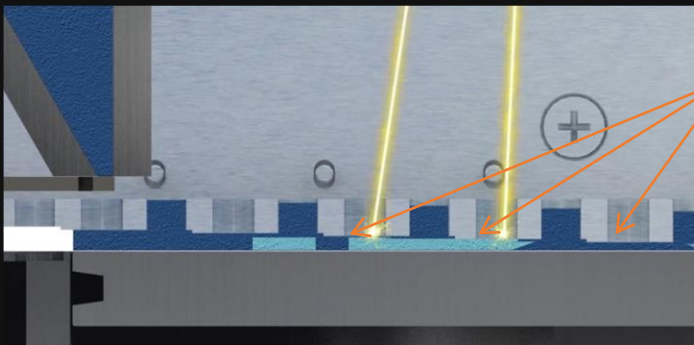
Lasing on multiple levels



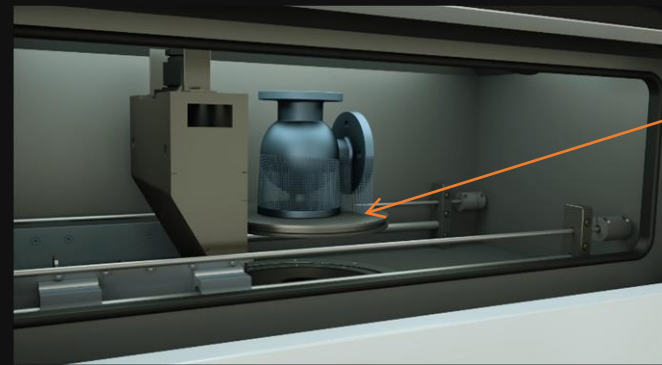
Lasing on operative surface layers 1,3 and 4



Part takes shape under powder bed



Each layer increase distance to bed plate by a set height



Completed part removed with build plate

Watch Multi Level Printing Video here

https://auroralabs3d.com/#!media/videos/20181116_01



Aurora Labs

auroralabs3d.com

Opportunities in 2019

ADDITIVE NOW

JV Established and looking to receive first orders

RMT PRINTERS

Considerable interest generated at Formnext has led to ongoing evaluation of technology

POWDER

Work continues on the research and development required for this project

PARTS MANUFACTURE

For projects, agile manufacture and proof of concept

CERTIFICATION AND DRM

Delivery of Digitally Certified Parts through Aurora Labs virtual Store



316 SS valve,
printed by Aurora



Bronze bush,
printed by Aurora

Thank You