



NORSK TITANIUM

Company Presentation May 2021

*Innovating the future of metal*



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# The production of structural grade metal alloys has barely evolved from the early days...

Forging then



Very high **labor** and energy input

Forging now



Very high **capital** and energy input

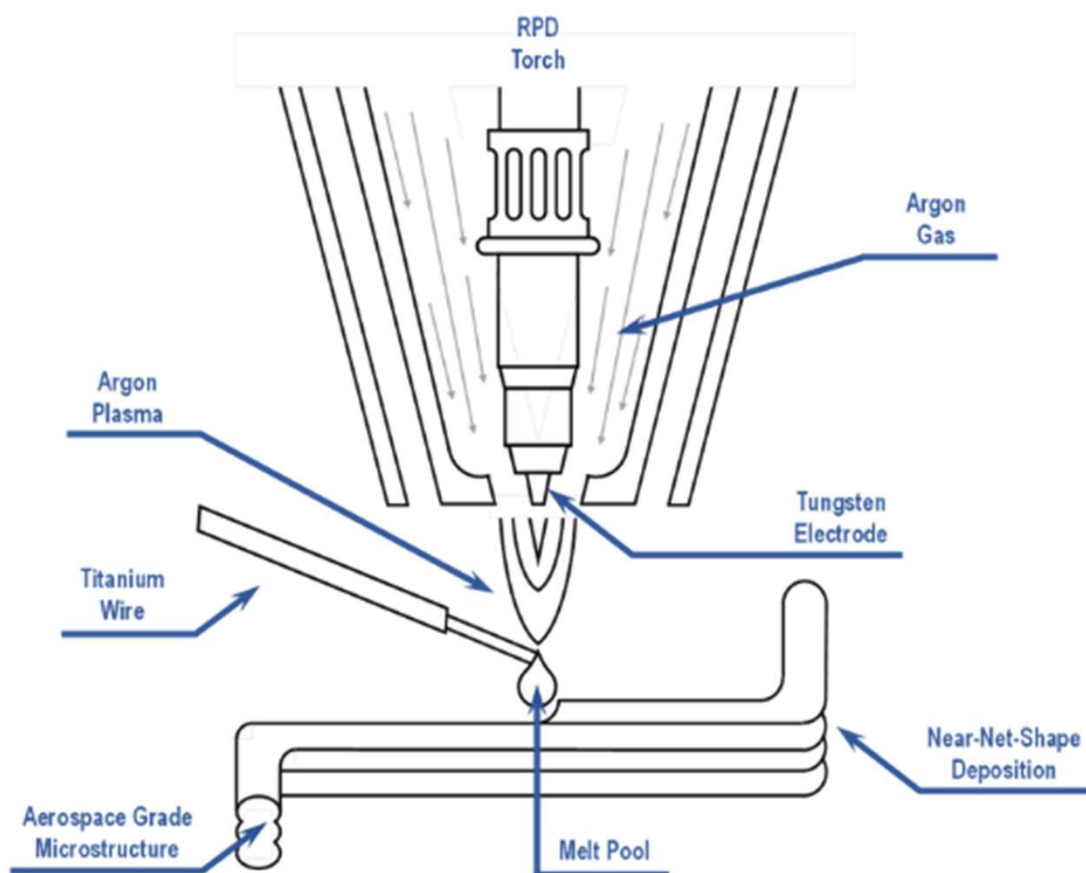


## Norsk's Disruptive Solution

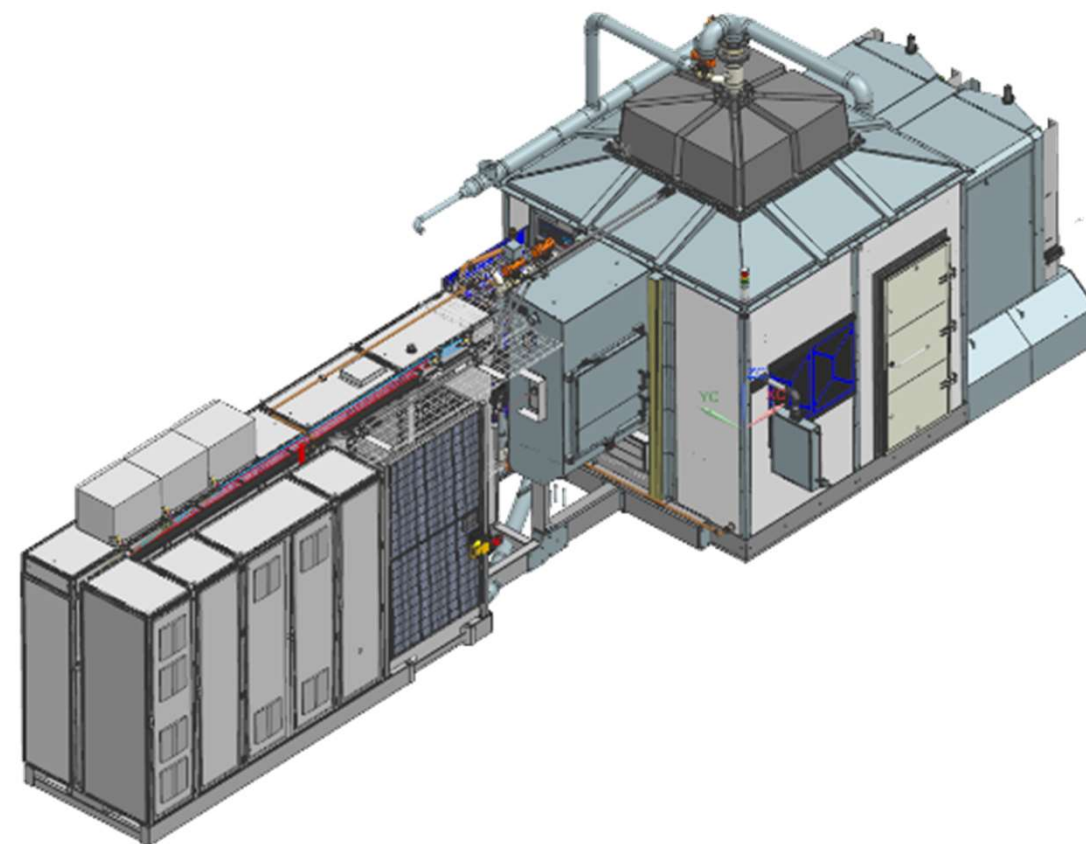
Norsk's Rapid Plasma Deposition (RPD™) technology is a highly innovative and scalable technology platform with all the benefits of 3D printing while delivering consistent forged quality material at high-rate production

# RPD™ dramatically reduces labor, capital and energy intensity

## Norsk's RPD™ process



## Norsk's proprietary MERKE IV machine





# Norsk – a global technology leader in metal 3D printing

RPD™



**Proprietary, market leading, high-deposition rate metal 3D printing process – Rapid Plasma Deposition (RPD™)**

**Dramatically reduces material consumption, lead time and supply chain cost, while lowering CO<sub>2</sub> emissions**



**Producing forge-equivalent titanium near-net-shapes**



**25 active customer engagements and partnerships with commercial aerospace, defense and industrial manufacturers**



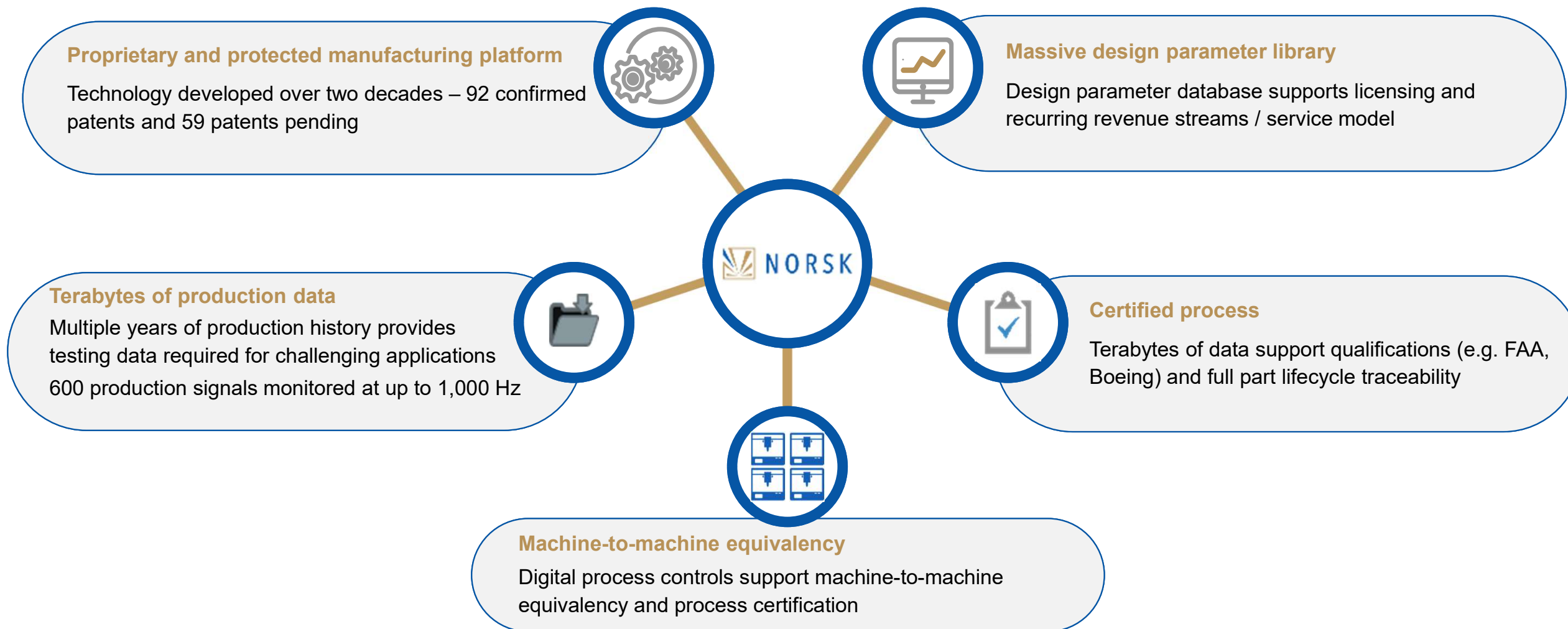
**The only FAA-approved structural titanium 3D printing manufacturer in commercial aircraft production**



**USD 150B total addressable market for titanium parts**

# 3D printing technology platform enabled by a digital backbone

## Digital backbone enabling a highly scalable business model





# Producing forge-quality structural hard-metal alloys at significantly lower cost with smaller environmental footprint

**Improved efficiency and shorter lead time**

**5-20x** faster than incumbent processes

**Up to 75%** less machining costs

**Sustainable manufacturing – reduced environmental footprint**

**25-75%** less material use vs. incumbent processes

**50-75%** reduction in required machining

**1,100 MT** annual CO2 savings from fully utilized RPD machine<sup>1</sup>

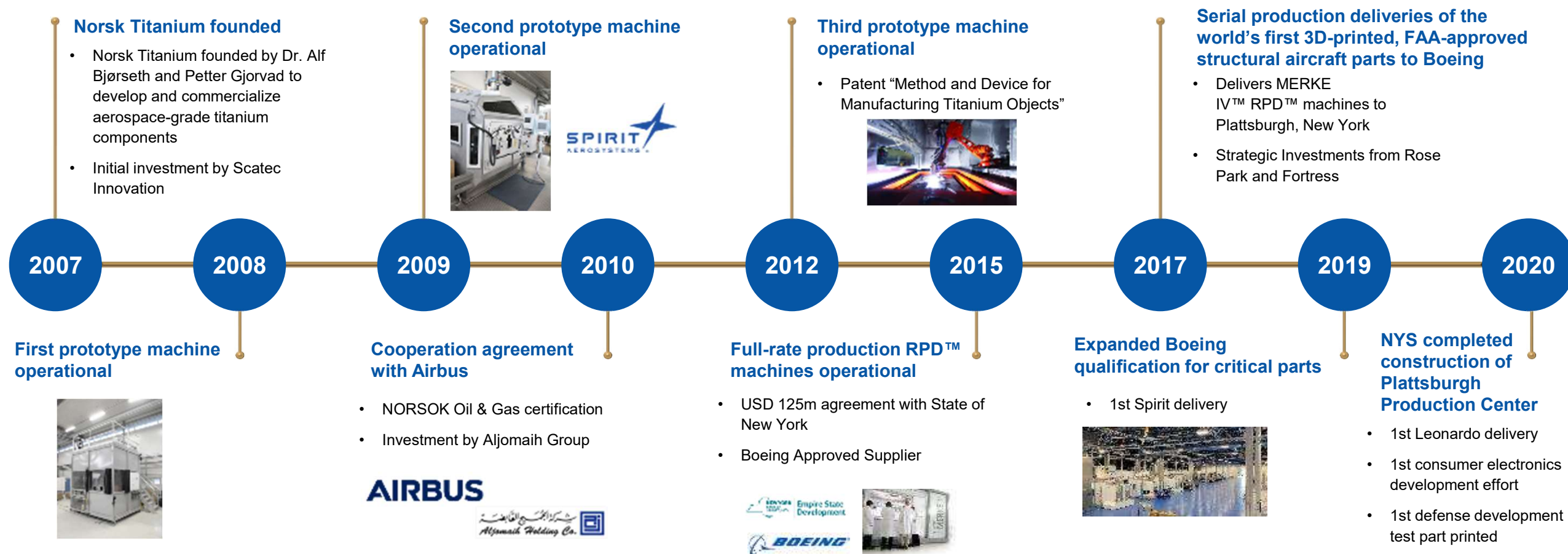
**25 – 50% in total cost savings vs incumbent processes**

Source: <https://www.eia.gov/tools/faqs/faq.php?id=74&f=11>

1) Each fully utilized Norsk RPD machine saves approximately 2 GWh in energy consumption representing approx. 1,100 MT of CO2 emissions annually

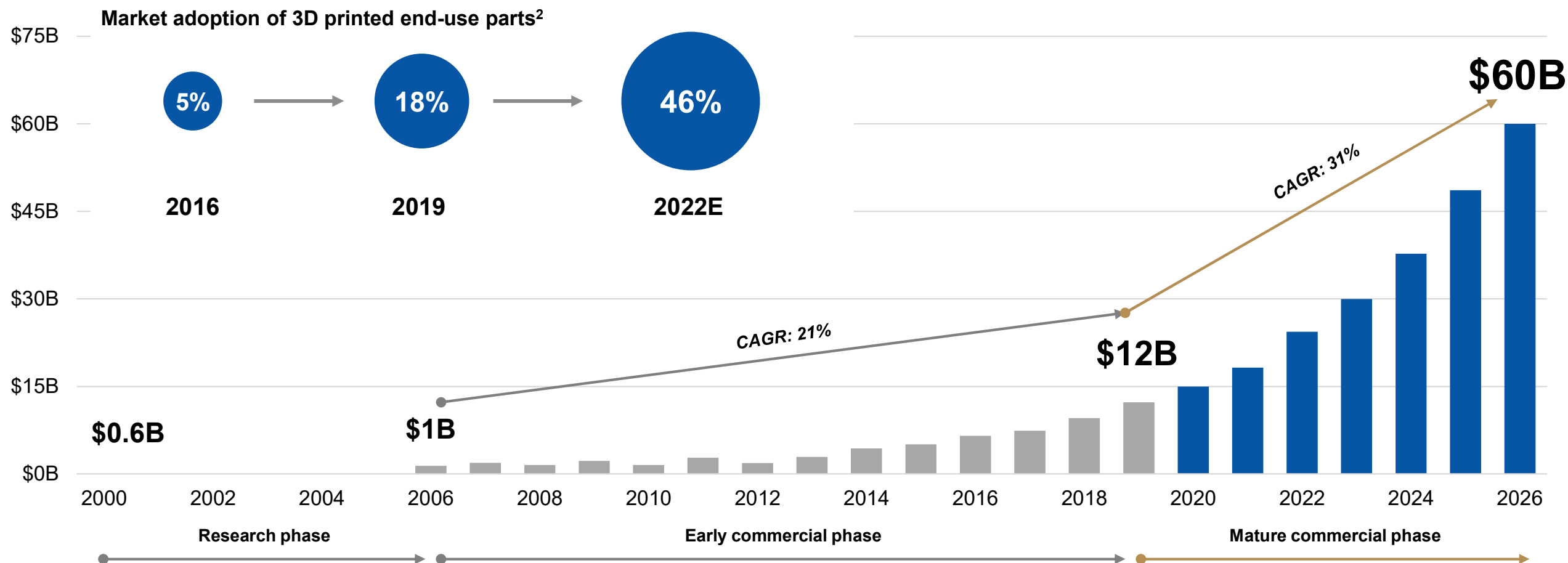
# In business since 2007 – mature technology, multi-year lead over competition and ability to set industry standards

## Selected company highlights



# 3D printing is maturing into mass production of end-use parts and set to grow rapidly

## 3D printing market size development<sup>1</sup>



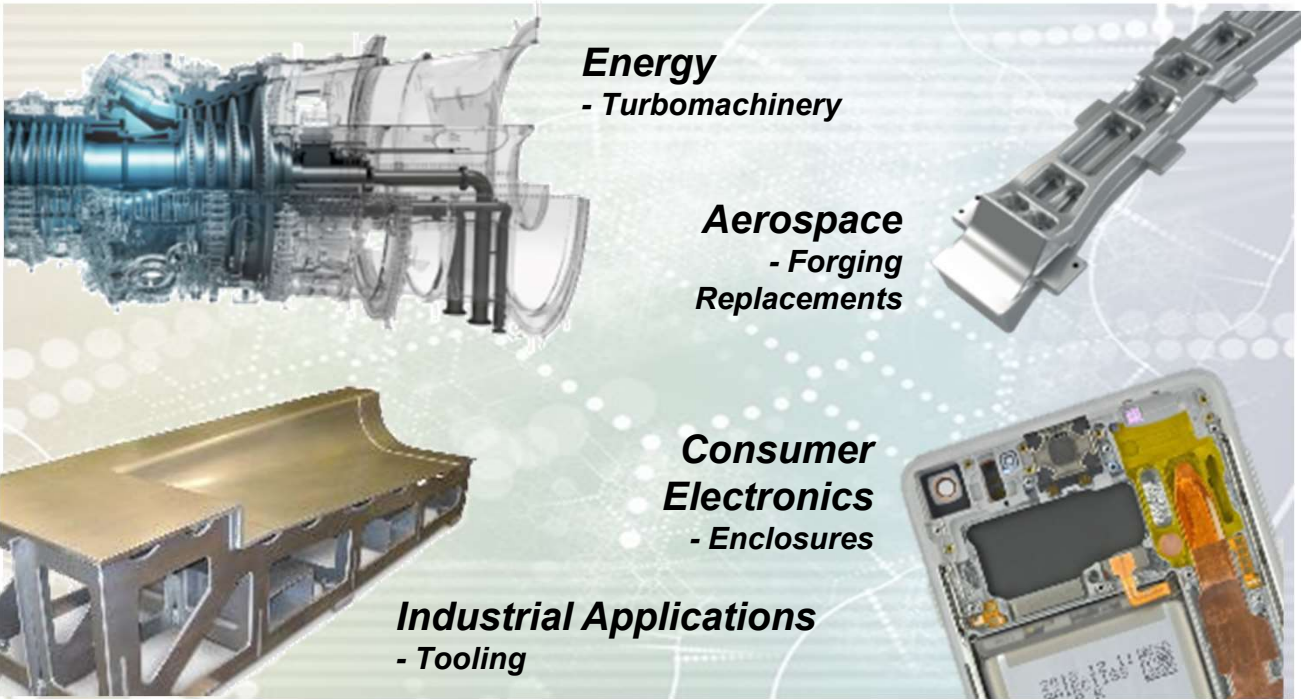
Source: Wohlers Report 2020 (2000 actuals – 2029 forecast); “3D printing: hype or game changer?” EY Global Report 2019

1) Revenue from sale of additive manufacturing products and services





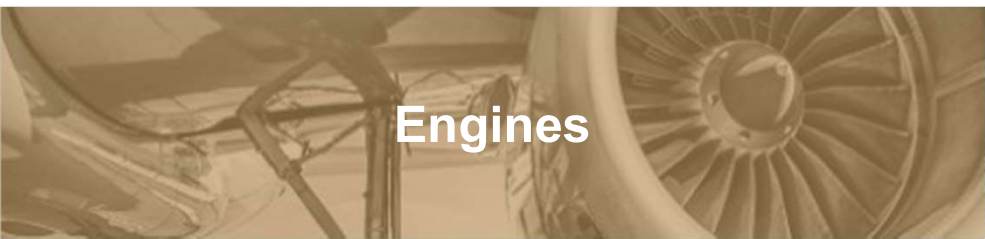

2) 3D printing being applied for end parts and components across all surveyed industries and countries

# Use of titanium across industries is growing

- ☒ Excellent corrosion and erosion resistance
- ☒ Impressive strength-to-weight ratios
- ☒ High heat-resistance
- ☒ Very good oxidation capability



Norsk qualification in demanding end-markets is opening doors to a \$150bn addressable market

 <p>Aerospace structures</p>	
 <p>Defense</p>	
 <p>Engines</p>	Ongoing work
 <p>Other industries</p>	Energy Electronics Automotive Marine Desalinization Satellite & launch





## Positioned to rapidly scale

Norsk's disruptive solution is rapidly scaling with aerospace and defense customers creating a pipeline of visible revenue as it manufactures parts for platforms with 10+ year production runs, while also expanding into new sectors over time.

# Global footprint & world's largest 3D printing facility

## Plattsburgh, New York, USA



### Description

- World's largest 3D printing facility, focused on manufacturing customer parts
- Separate qualification facility
- Area: 147,000 sq. ft
- Capacity: 640 MT / year
- 32 RPD™ machines + material warehouse + downstream activities
- 38 employees



## Eggemoen, Ringerike, Norway



### Description

- Focused on research and development of new technologies for 3D printing
- Area: 37,000 sq. ft
- Capacity: 60 MT / year
- 3 RPD™ machines + metallurgy lab
- 52 employees



# State-of-the-art facilities located in Plattsburgh, NY State

**Plattsburgh Production Center (PPC)**



**Plattsburgh Development and Qualification Center (PDQC)**



# Norsk's technology is certified for production and has set industry standard for 3D printing of metals

## Industry material standard

Boeing Material  
Specification



*"We are always looking at the latest technologies to drive cost reduction, performance, and value to our customers, and Norsk Titanium's RPD™ capability fits the bill in a new and creative way."*

John Byrne, former VP Airplane Materials & Structures, Boeing

Airbus Material  
Specification\*



Emerging Technologies  
Task Group, Co-Chair  
Materials & Machines



Aviation Week  
2018 Award Winner



AMS  
7004 & 7005



Additive Material  
Specification Development  
Committee



Frost & Sullivan  
2017 European Innovation  
Award







## Innovating the future of metal

**Business model** disrupts outdated metal manufacturing methods and oligopolistic market structure

**Addressable market** spans multiple sectors and high-performance metal alloys

**Norsk's 3D printing technology** enables industrial scale production rates while substantially reducing the environmental footprint of metal manufacturing