

OneWeb  Satellites

# Satellite Mass-Manufacturing



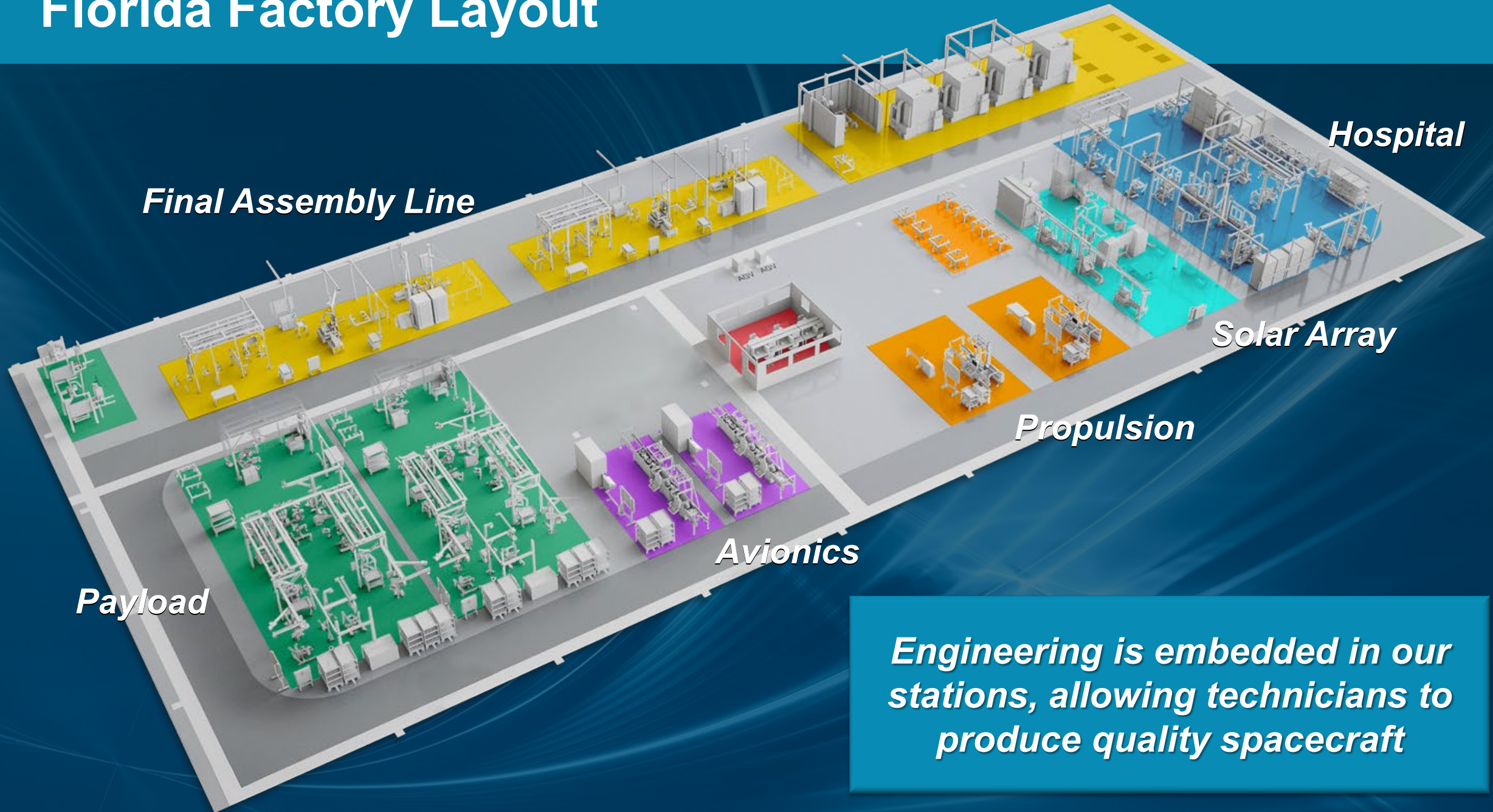
Revolutionizing the Economics of Space

# Company Overview

- **Airbus OneWeb Satellites (OWS)** is a Joint Venture between **Airbus Defence and Space** and **OneWeb**, formed in February 2016
- Responsible for the design, assembly, manufacturing and testing of the Gen1 spacecraft for OneWeb and other third-party customers, including the US Government
- Innovative high-rate assembly line approach enables much lower satellite costs and substantially shorter delivery timelines than traditional techniques
- Facilities in Toulouse, France and Merritt Island, Florida
- Currently staffed with ~300 full-time employees



# Florida Factory Layout



*Engineering is embedded in our stations, allowing technicians to produce quality spacecraft*

# Fast Facts



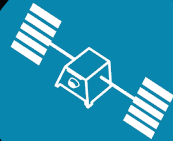
**50/50**

Joint Venture  
Airbus and  
OneWeb



**15**

Successful  
Launches



**502**

Satellites  
in Orbit



**3** Years

Since FL  
Inauguration



**142,000** sq ft  
Factory in FL



**300**

Dedicated  
Employees



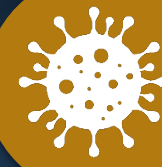
**8**

Spoken  
Languages



**10**

Time  
Zones



**1**

Global  
Pandemic



**210.000**

Supplier Units  
Delivered to Date



**40**

Tier 1  
Suppliers



**2**

Satellites  
Per Day

# OneWeb Gen1 Satellite Production

- 648 satellites now being made on the OneWeb Satellites production line in Florida opened in July 2019
- Factory is configured to output a fully assembled and tested satellite every eight-hour shift
  - Design life greater than 5 years
  - Production time less than 10% of other in-class satellites
  - Cost 10-20% of other in-class satellites
  - Integrated engineering, manufacturing and supply chain for production-tuned design
  - Supply chain partner processes and infrastructure focused on high-rate satellite assembly
  - Design accommodates multiple mission configurations



# Supply Chain – Overview

- 40 first tier; 100's of second+ tier suppliers
- Global sourcing
- Mix of established industrial companies and new technologies
- Deliveries generally DAP Florida factory or AOS hub in Toulouse, France
- Florida factory is a designated Free Trade Zone under US Customs & Border Protection supervision
- Components stocked in factory inventory; continuous feed into production



250+ SUPPLY POINTS

# Supply Chain – Challenges

- Maintaining quality
  - Quality managed at suppliers' facilities
- Maintaining schedule
  - Supplier delays can create cascading effects up to and including launch
- Single source v. multi source
  - AOS has faced challenges from single sourced key components
  - Risk v. cost
- Transition from single commercial customer to multi-program commercial and US Government model
  - Flowing down FAR/DFARS requirements while maintaining commercial agility

# Questions?



**Thank You**

