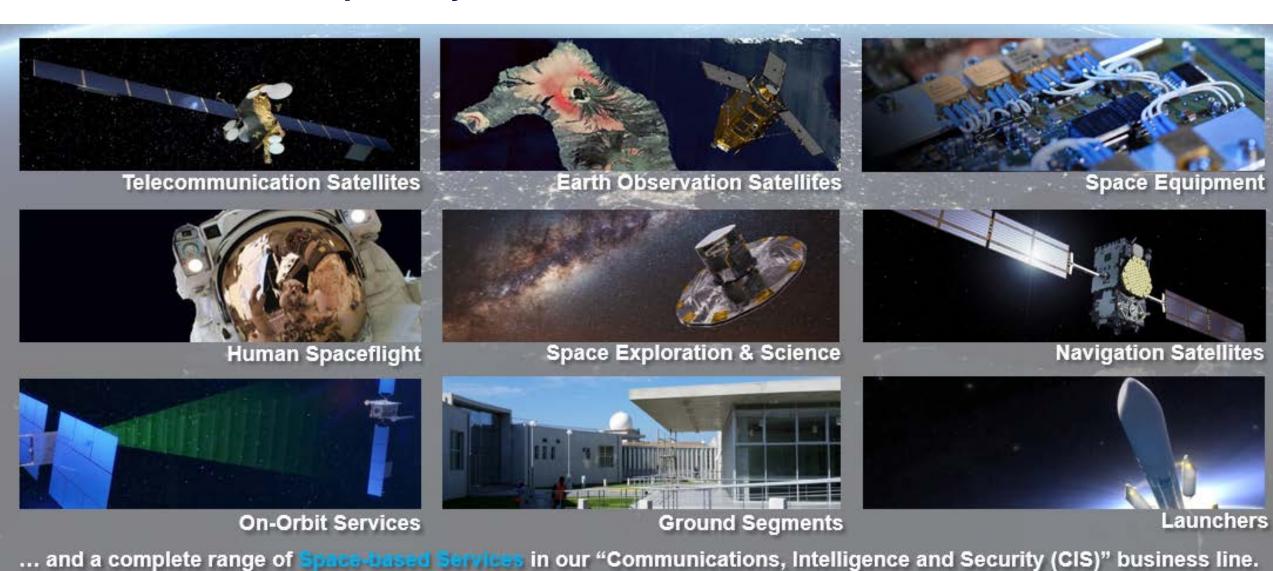


AIRBUS DEFENSE AND SPACE, Inc.

Tim Deaver



Global Leader in Space Systems and Services



AIRBUS

Enabling Low Earth Orbit Mega Constellations

In 2018

Airbus delivered

- 24 satellites
- European Service Module 1
- 39 military planes
- 347 helicopters

This is our last year for double digit satellite deliveries. With the mass production of small, lower-cost satellites for OneWeb starting in 2019, satellite deliveries will be in the triple digits.

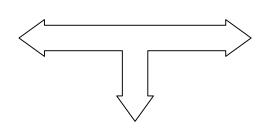
Tom Enders





Airbus OneWeb Satellites Joint Venture

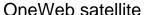






OneWeb Satellites





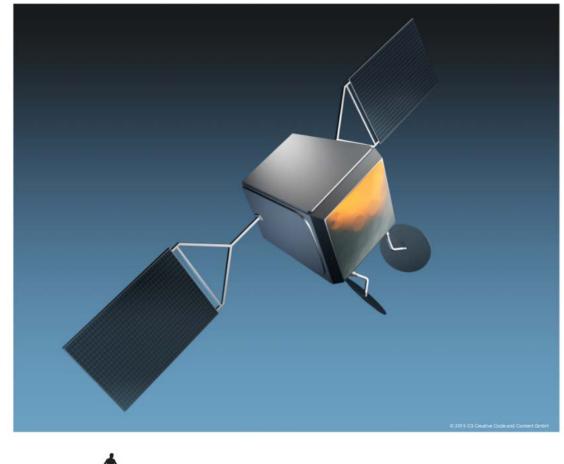


Manufacturing facility in Florida



Revolutionizing Satellite Manufacturing

- Design for manufacturability
- Design for test
- Design for cost
- Supply chain management
- Flexible manufacturing facility to build other satellites













Florida Manufacturing Facility – Open for business

- Located near Kennedy Space Center
- Adds two manufacturing lines to the current line in Toulouse
- Ready for production in early 2019





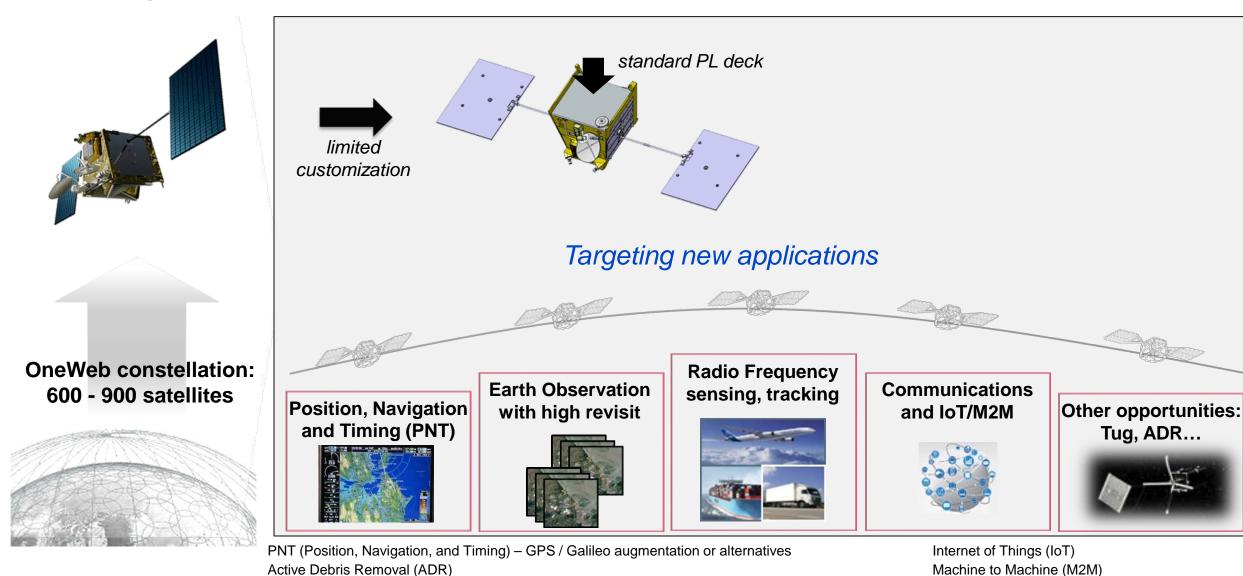


The machine that makes the machine





Enabling New Applications



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News Release: Airbus wins DARPA contract

- Defense Advanced Research Projects Agency (DARPA)
- Engineering work through
 Preliminary Design Review \$2.894M
- Commercial satellite buses paired with military sensors and payloads
- Low-earth orbit constellations and mesh networks of lower size, weight and cost







DEFENCE AND SPACE

Press Release

SPACE SYSTEMS

Airbus wins DARPA contract to develop small constellation satellite bus for Blackjack program

HERNDON, Va., USA, 14 January 2019 - Airbus Defense and Space Inc. has been awarded a contract from the Defense Advanced Research Projects Agency (DARPA) to develop a satellite bus in support of the Blackjack program.

DARPA describes the Blackjack program as an architecture demonstration intending to show the military utility of global low-earth orbit constellations and mesh networks of lower size, weight and cost. DARPA wants to buy commercial satellite buses and pair them with military sensors and payloads. The bus drives each satellite by generating power, controlling attitude, providing propulsion, transmitting spacecraft telemetry, and providing general payload accommodation including mounting locations for the military sensors.



Summary

- Airbus brings a large portfolio of satellites, space hardware and services to the global market place
- Airbus is developing a unique and proven satellite manufacturing capability for large low-Earth constellations in the US and is committed to additional growth in the US



Thank you

Tim Deaver
Director US Space Programs
Airbus Defense and Space, Inc.

