

# IRIDIUM<sup>®</sup> NEXT OVERVIEW

MISSION: COMPLETE



# **IRIDIUM® NEXT LAUNCH CAMPAIGN**

#### Overview

- Faster Data Speeds
- Increased Capacity
- Enables Iridium Certus<sup>®</sup>

### By the Numbers

- \$3B Satellite Refresh Program
- 81 New Satellites (66 in-orbit)
- 8 Launches on SpaceX Falcon 9
- 12.5 Year Design Life



### **New Revenue Streams**

- Iridium Certus<sup>®</sup> Services
- Aireon<sup>SM</sup> Aircraft Tracking Hosted Payload

#### Final Launch Completed: January 11, 2019

## **IRIDIUM® NEXT** LAUNCH TIMELINE





June

2017











January 2017

3

October 2017 December 2017 March 2018 May 2018 July 2018 January 2019



## IRIDIUM® NETWORK EVOLUTION

Upgraded satellites will provide a significant improvement in voice quality and data speeds

First-Generation Constellation	Upgraded Network Capabilities
Voice: 2.4 Kbps	Voice: 2.4Kbps (SQ) and 4.8Kbps (HQ)
Short Burst Data <sup>®</sup> (SBD <sup>®</sup> )	Short Burst Data <sup>®</sup> (SBD <sup>®</sup> )
LBT Data: Circuit Switched 2.4 Kbps Up/Down	Upgraded Network LBT Data: Circuit Switched 2.4 Kbps < 22 < 88 Kbps
Broadband: Iridium OpenPort <sup>®</sup> up to 134 Kbps IP data	Broadband: < 88 Kbps IP data < 176 Kbps IP data < 352 Kbps IP data < 704 Kbps IP data < 1408 Kbps IP data
Supports First Generation Terminals Only	Supports First Generation and New Terminals

iridium

### IRIDIUM<sup>®</sup> HOSTED PAYLOADS



**Aireon<sup>SM</sup>** – Gives air navigation service providers the capability to track aircraft anywhere in the world in real time, including the over oceanic, polar and remote regions, via space-qualified Automatic Dependent Surveillance-Broadcast (ADS-B) receivers built into the Iridium satellites.



exactView<sup>™</sup> RT powered by Harris – As a result of an ever-growing demand for immediate maritime domain awareness, exactEarth have partnered with Harris Corporation to deliver a real-time advanced ship tracking solution via hosted payloads on the Iridium satellites.

#### AMPERE at Johns Hopkins

#### **Applied Physics Lab**

– Active Magnetosphere and Planetary Electrodynamics Response Experiment (AMPERE) sensors monitor space weather data in real time, enabling high-quality forecasting of space-based solar storms that can disrupt aviation and terrestrial telecom and satellite systems. The project began with payloads on our first-generation satellites, but with the transition to our second-generation constellation, we will be able to support AMPERE with even better input data.

AMPERE

## QUESTIONS?

