



IRIDIUM® NEXT OVERVIEW

MARCH 2018

A vital, global communications provider of mobile voice and data services via 66 in-orbit satellites

Serving

969,000

Customers globally*

Backed by

300+

Global
Technology
Partners

Delivering:

\$448M

in total
revenue**

* Q4 2017 **Full year 2017

IRIDIUM CONSTELLATION OF LOW EARTH ORBIT SATELLITES

Low Latency

781 km versus 36,000 km for
GEO
Over 40 times closer to user

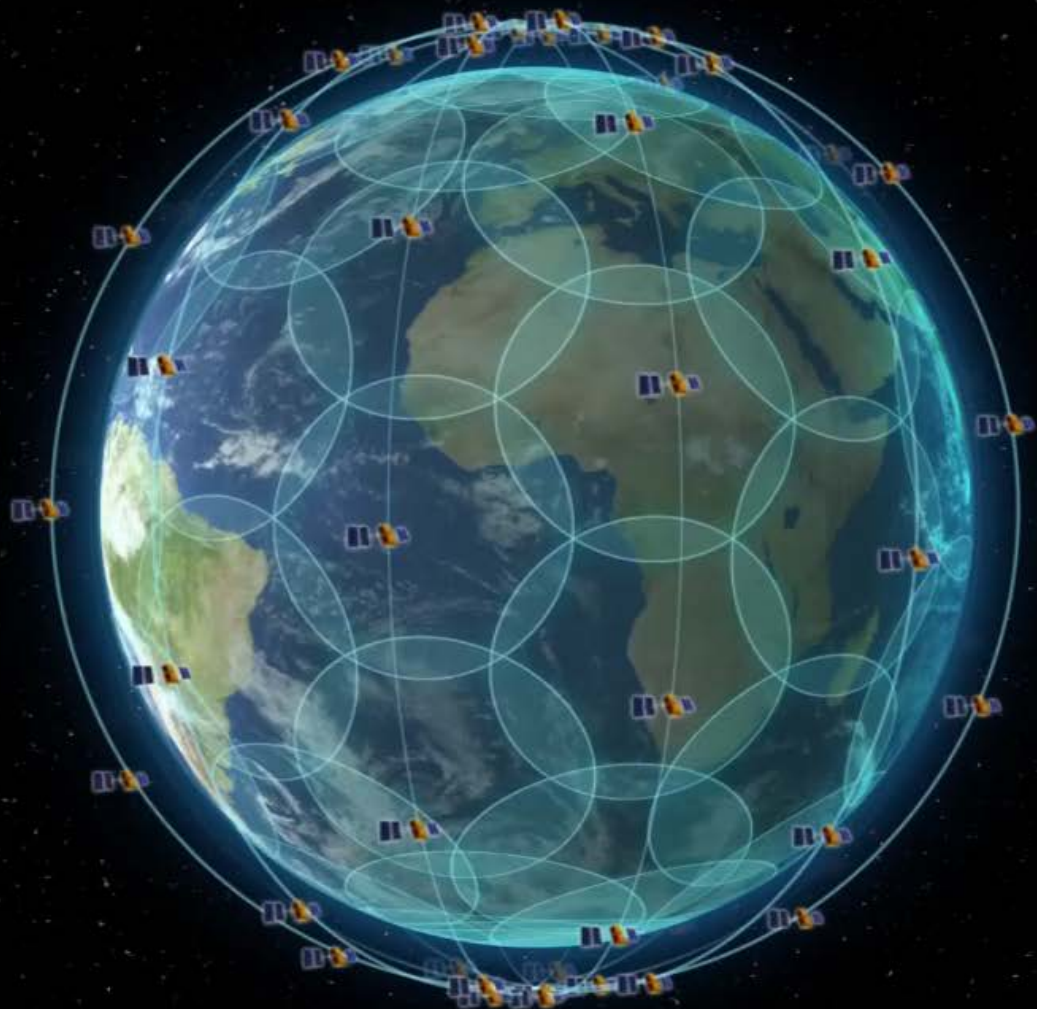
Redundancy

Multiple points of redundancy
Call path unaffected by local
conditions

Truly Global Coverage

Mesh network provides
pole-to-pole connectivity






PEOPLE USE IRIDIUM - EVERYWHERE



○ IoT (SBD) Data Transmission ● Voice Call ● Iridium OpenPort High-Speed Data Traffic

One week plot of IoT Sessions, Voice Calls, & Iridium OpenPort Sessions Origination Points
22-Oct-2017 – 28-Oct-2017



Iridium **NEXT**

Eight rockets. 75 satellites.

The largest satellite constellation
replacement ever attempted.

Without interrupting current service.

\$3 billion dollars

Started 2009. Completion in 2018!



EVOLUTION TO IRIDIUM NEXT

Significant improvement in voice quality and data speeds with Iridium NEXT

Current Constellation

Voice: 2.4 Kbps

Short Burst Data® (SBD®)

LBT Data:
Circuit switched 2.4 Kbps Up/Down

Broadband:
Iridium OpenPort® up to 134 Kbps IP data

Supports Current “Block 1” Terminals

Iridium NEXT Capabilities

Voice: 2.4Kbps (SQ) and 4.8Kbps (HQ)

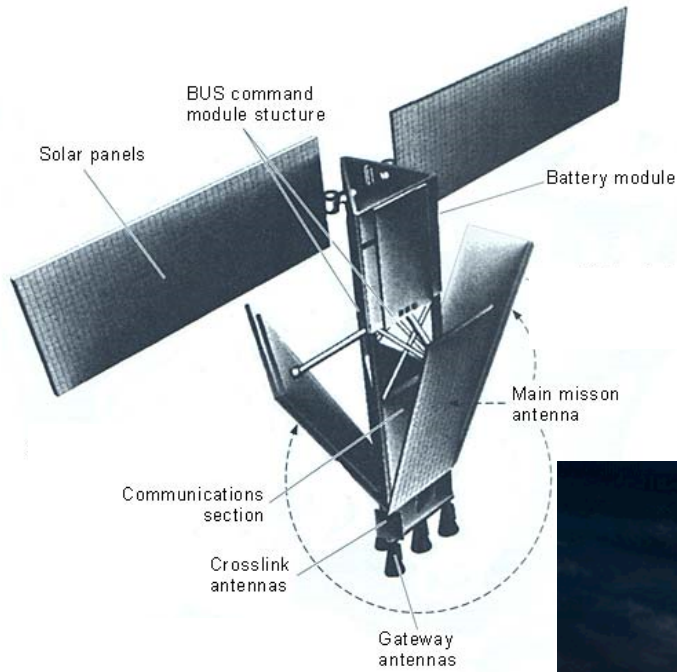
Short Burst Data® (SBD®)

Iridium NEXT LBT Data:
Circuit switched 2.4 Kbps
< 22 < 88 Kbps

Broadband:
< 88 Kbps IP data
< 176 Kbps IP data
< 352 Kbps IP data
< 704 Kbps IP data
< 1408 Kbps IP data

Supports Current “Block 1” and New Terminals

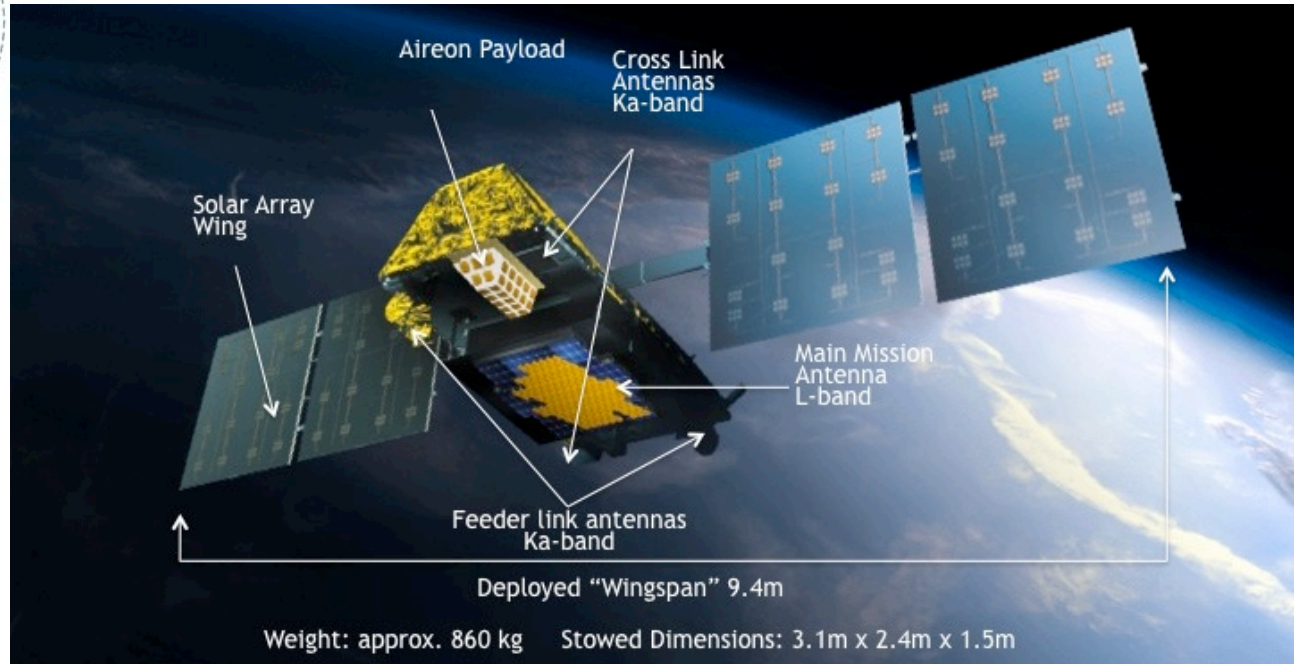
IRIDIUM BLOCK 1 AND IRIDIUM NEXT SATELLITE COMPARISON



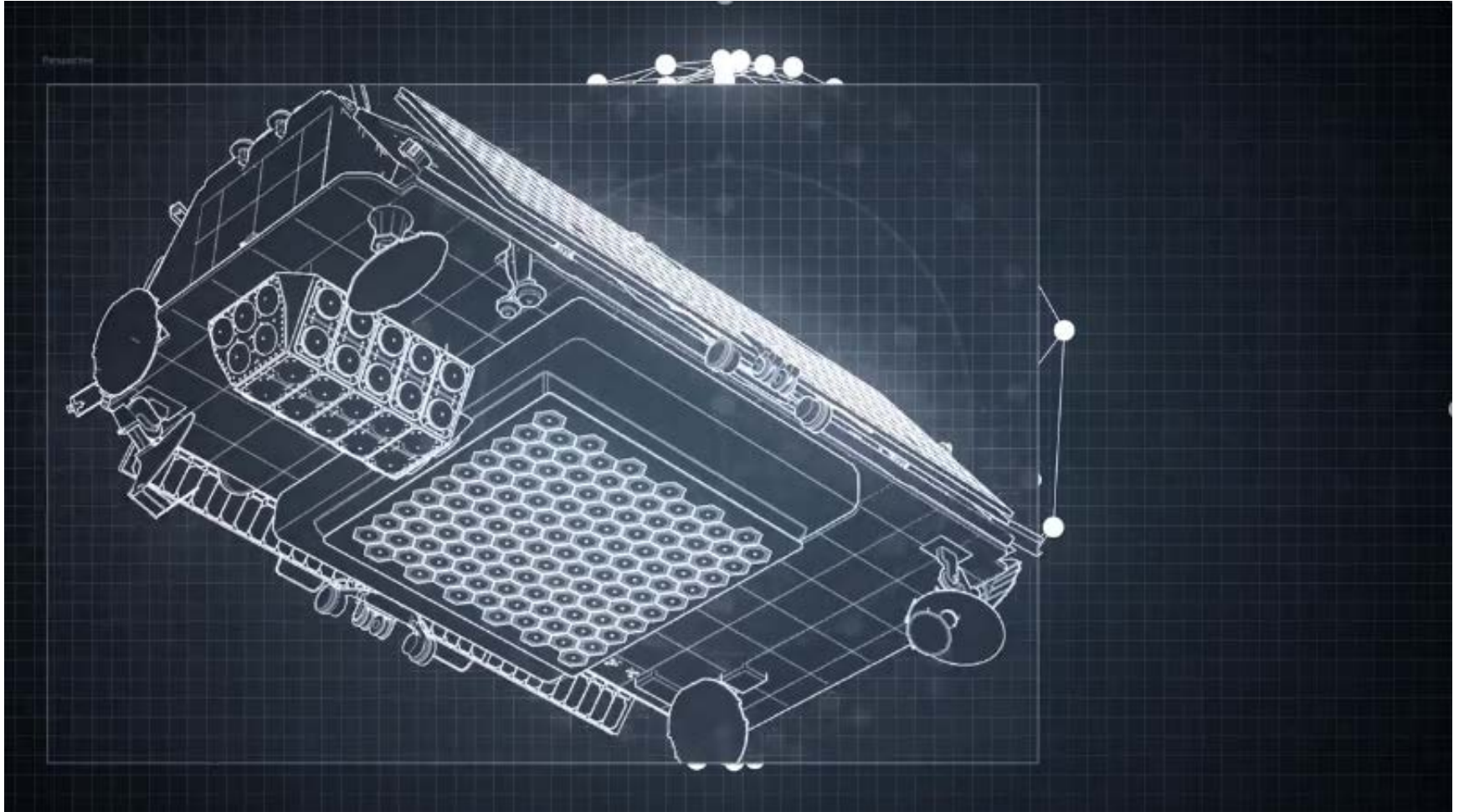
Weight: approx. 690 kg

Iridium Block 1

Iridium NEXT



IRIDIUM NEXT SATELLITE CONFIGURATION



A WORLD CLASS IRIDIUM NEXT MISSION TEAM

Committed to the successful deployment of the Iridium NEXT network



IRIDIUM NEXT: STATE OF THE ART ASSEMBLY LINE



Our transition to Iridium NEXT enables continued growth

Ground systems upgrades

Smooth transition

Improved service

Superior processing power

Iridium Teleport
(Svalbard, Norway)



Iridium CertusSM

Reliable. Everywhere.



22 kbps

Iridium Certus 20

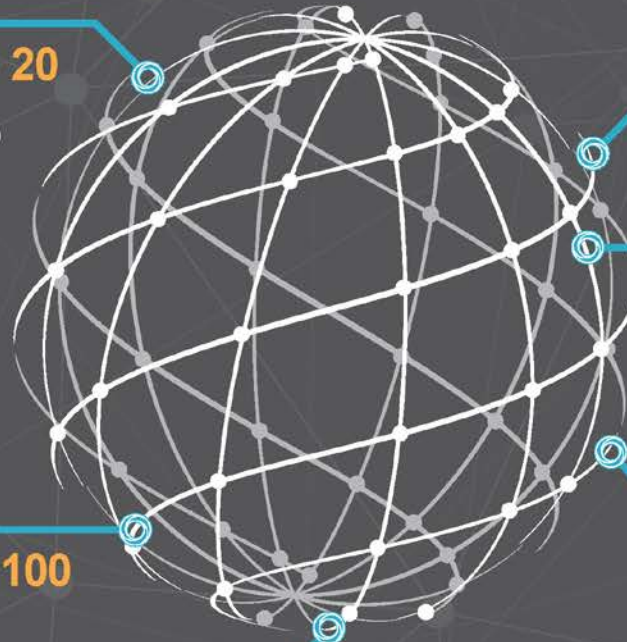
- Global Maritime Distress & Safety System (GMDSS)
- ACARS
- Asset Tracking
- eLog Book
- Telemetry
- Remote Monitoring



88 kbps

Iridium Certus 100

- Internet/VPN
- Email
- Graphical Weather (WX)
- Photo Transfer
- Credit Card Validation



1408 kbps

Iridium Certus 1400

- High Definition Video
- Video Conferencing
- Multi-User Internet / VPN
- Telemedicine

704 kbps

Iridium Certus 700

- Standard Definition Video
- Video Conferencing
- Multi-User Internet / VPN
- Telemedicine

352 kbps

Iridium Certus 350

- Flight Data Recorder Streaming
- VSAT Redundancy
- Low Resolution Video

176 kbps

Iridium Certus 200

- ECDIS Updates
- Aeronautical Charts
- Streaming Audio

 **iridium**[®]
Everywhere

CURRENT PRODUCTS AND SERVICE/ FUTURE OFFERINGS

Broadband



Iridium
OpenPort®



Iridium
OpenPort-
AeroSM



Iridium
Pilot®



Iridium
CertusSM
Devices

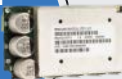
Voice



Iridium
9555



U.S. DOD
Tactical Radio
(Netted)



Iridium
Core
9523



Iridium
Extreme®

Iridium
Push-to-Talk



Pre-Iridium
NEXT
Devices

IoT



Iridium
9522B



Iridium
9602



Iridium
9603



Iridium
GO![®]

Iridium
Burst[®]



Iridium
Edge[®]

>300 Partners

Current

2018

IRIDIUM CERTUS TERMINALS



Iridium **Certus**
Maritime

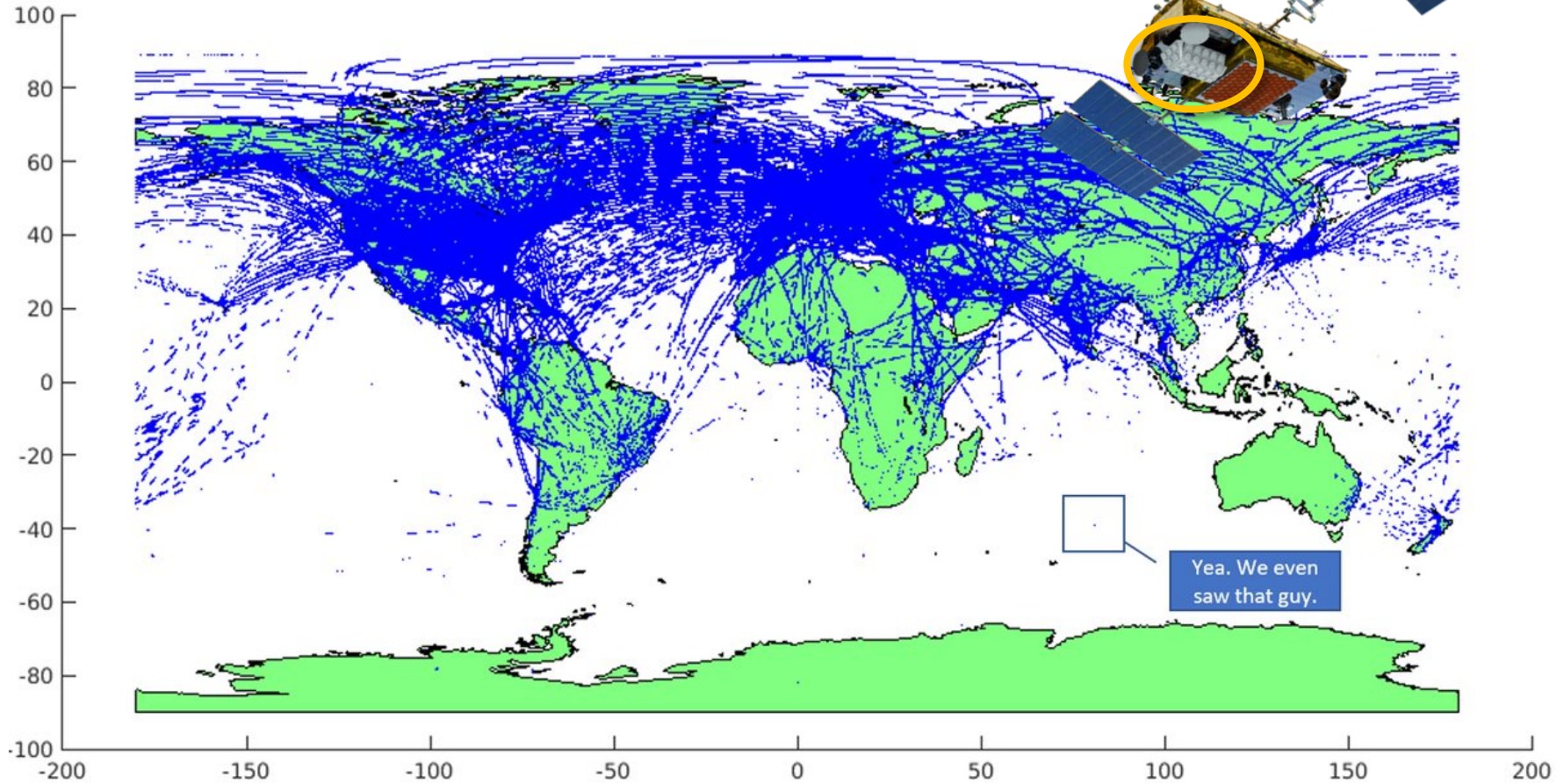


Iridium **Certus**
Land Mobile

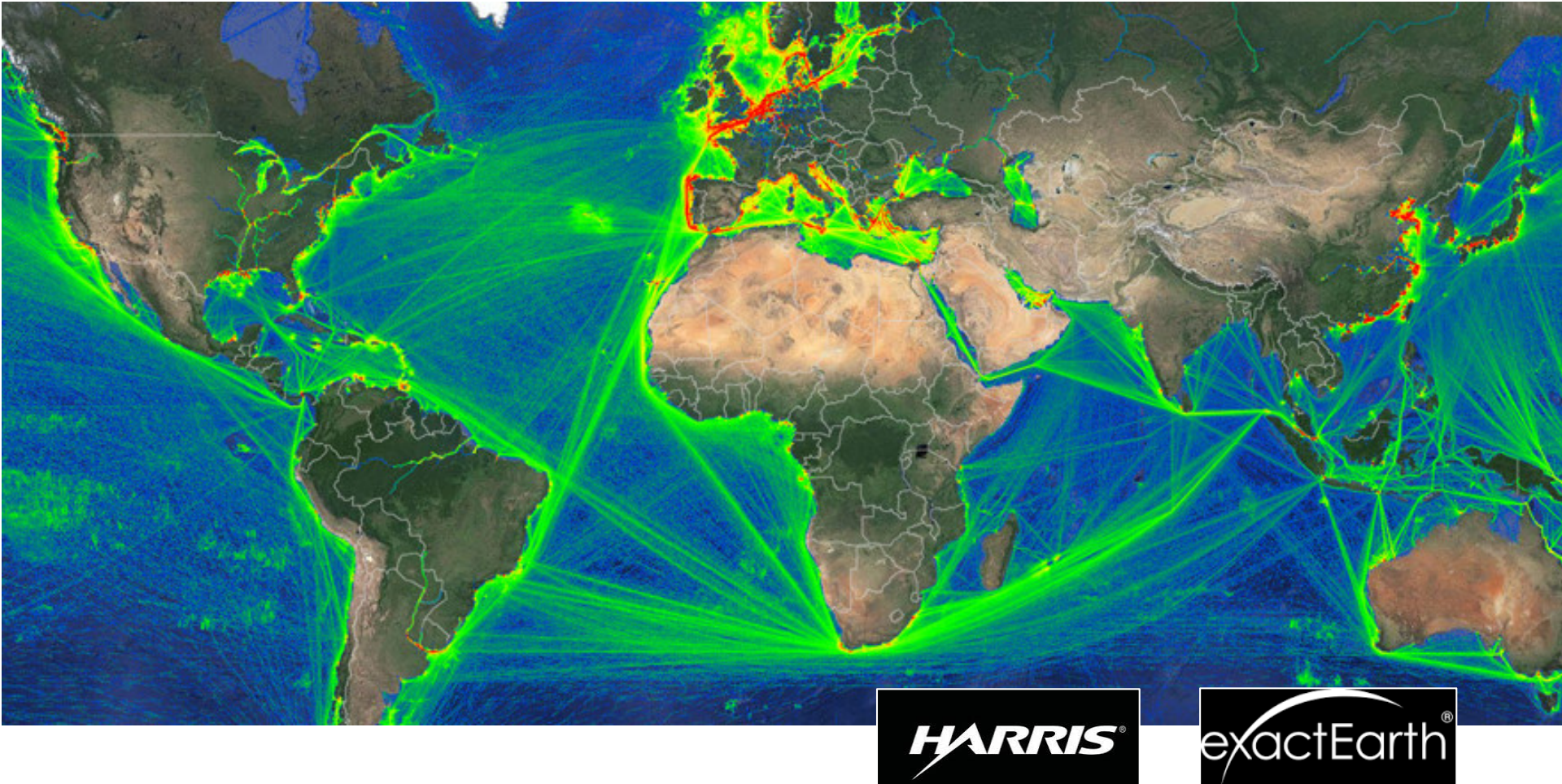


Iridium **Certus**
Aviation

NEW IRIDIUM NEXT WILL TRACK ALL AIRCRAFT TOO!



... AND ALSO PROVIDE A REAL-TIME VIEW OF ALL LARGE SHIPS!



LAUNCH CAMPAIGN



FALCON 9

- SpaceX, USA
- Launches: 7 launches of ten Iridium NEXT satellites each; and 1 launch of 5 satellites
- Launch Site: Vandenberg Air Force Base, CA USA



LAUNCH DEPLOYMENT PLAN

Launch Deployment Scenario

LAUNCH 5
MARCH
2018



Plane 1

Plane 2

Plane 3

Plane 4

Plane 5

Plane 6

INTER-PLANE DRIFT

INTER-PLANE DRIFT

INTER-PLANE DRIFT

INTER-PLANE DRIFT

INTER-PLANE DRIFT

MARCH 2018

32
TOTAL ACTIVE
SATELLITES



IRIDIUM LAUNCH ACTIVITIES

1st Launch

- January 14, 2017
- 10 satellites in mission (2 drifted to other plane)

2nd Launch

- June 25, 2017
- 10 satellites, 8 in mission (3 drifted), 2 drifting

3rd Launch

- October 9, 2017
- 10 satellites in mission in launch plane

4th Launch

- December 22, 2017
- 10 satellites, 8 in mission, 2 drifting

5th Launch

- Planned March 29, 2018!

2018

- Aggressive Launch Schedule to complete mid-year
- Eighth launch added with SpaceX under ride-share for 5 satellites in Q2



IRIDIUM-1 LAUNCH: JANUARY 14, 2017



IRIDIUM-2 LAUNCH: JUNE 25, 2017



IRIDIUM-3 LAUNCH: OCTOBER 9, 2017



IRIDIUM-4 LAUNCH: DECEMBER 22, 2017



IRIDIUM-4 LAUNCH: DECEMBER 22, 2017



IRIDIUM-4 LAUNCH: DECEMBER 22, 2017



IRIDIUM-4 LAUNCH: DECEMBER 22, 2017



IRIDIUM-4 LAUNCH: DECEMBER 22, 2017



IRIDIUM NEXT – LAUNCH 3



T+ 01:10:37

LAUNCH: IRIDIUM-3

STARTUP MECO SECOND ENGINE CUTOFF

LIFTOFF LANDING SECOND ENGINE STARTUP Deploy 1 2 3 4 5 6 7 8 9 10

SPACEX

Detailed description: This is a screenshot from a SpaceX launch broadcast. The main image shows the Iridium-3 satellite in orbit above Earth's cloud-covered surface. A portion of the satellite's structure is visible in the foreground on the right. A blue timecode overlay in the top right corner reads 'T+ 01:10:37'. At the bottom, there is a mission timeline with various stages marked by blue dots and labels: STARTUP, MECO, SECOND ENGINE CUTOFF, LIFTOFF, LANDING, SECOND ENGINE STARTUP, and Deploy 1 through 10. The SpaceX logo is located in the bottom right corner of the video frame.





iridium[®]
Everywhere

