



## IRIDIUM'S NEW \$3B NETWORK







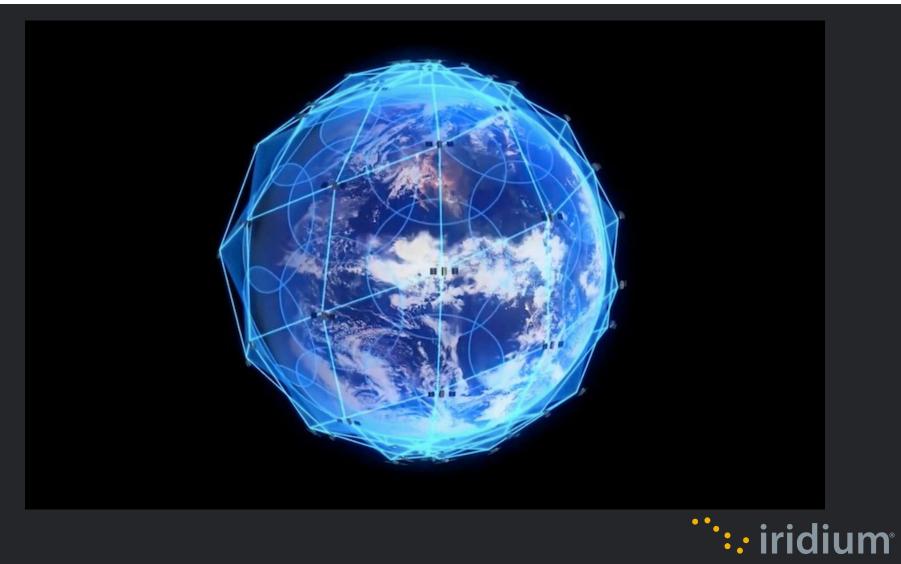
- Replacement of original network in operation since 1999
- 8 launches with Space X from 2017 2019
- 75 new satellites deployed successfully (66 active, 9 spares)

### SATELLITE NETWORK

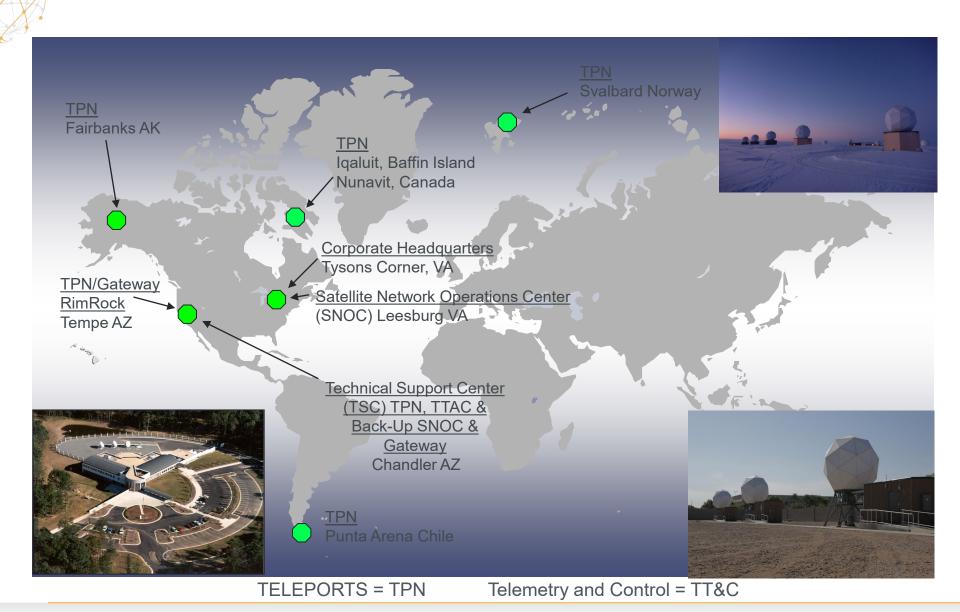




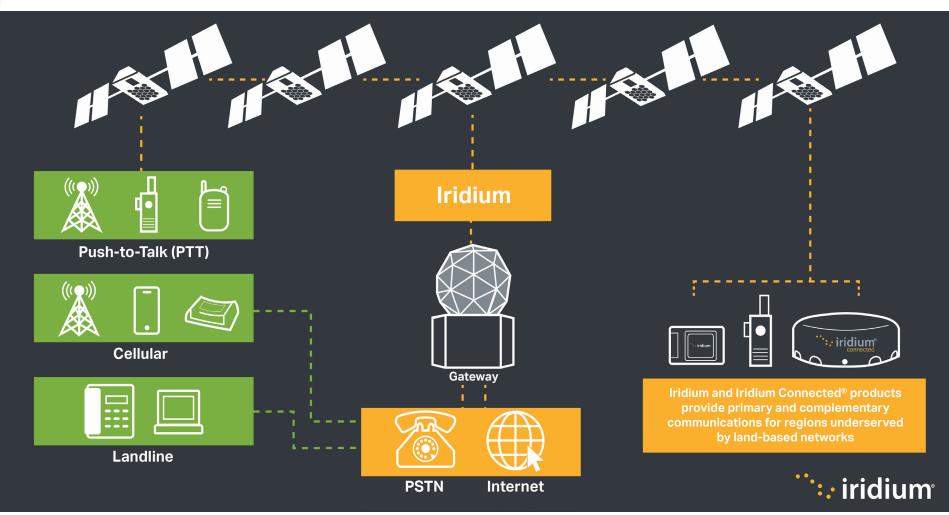
### SATELLITE NETWORK



### **GROUND NETWORK**

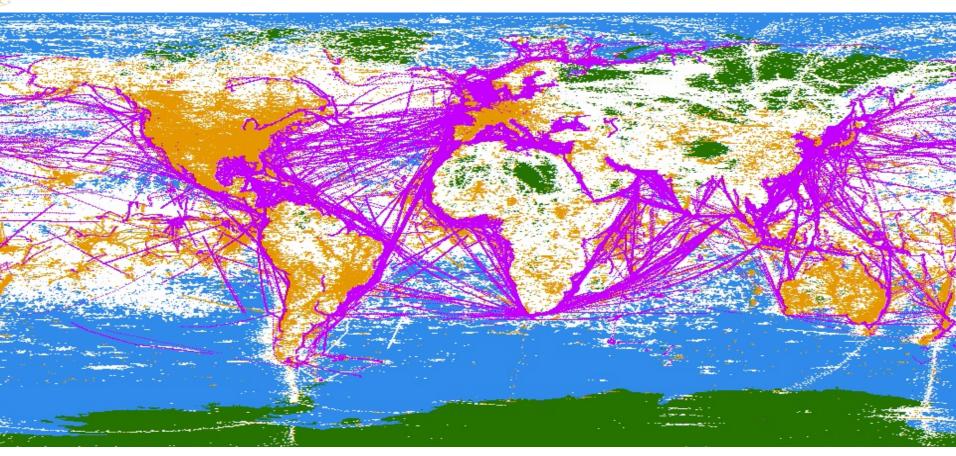


### **NETWORK CONNECTIVITY**





### **NETWORK UTILIZATION**









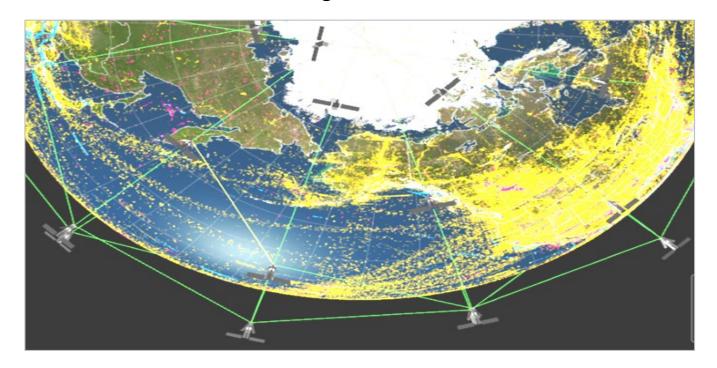
One week plot of Network Traffic



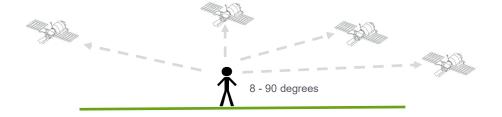


### **ALASKA CONNECTIVITY**

 Iridium's low-earth satellites provide reliable, real-time services across the entire Alaskan region.



Iridium	
# of Satellites Serving Alaska	Up to 4
Distance	483 miles
Connection Angle	8 - 90 degrees

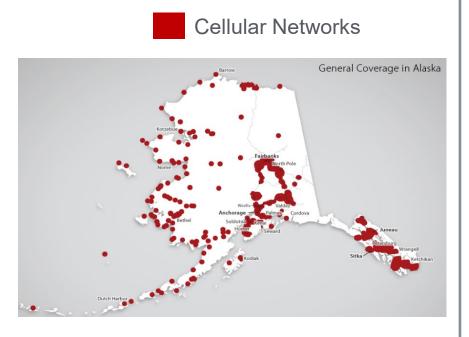


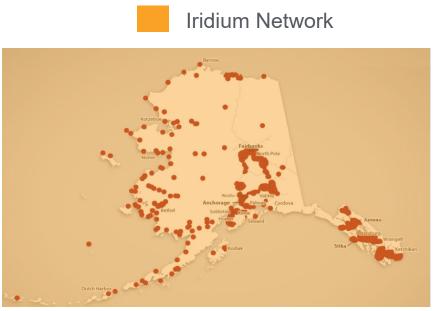




### CELLULAR VS. IRIDIUM

 Today, cellular networks service ~5% of Alaska and surrounding waters. Iridium covers 100% of Alaska and off-shore areas with a network of 66 low-earth satellites.







### FIXED SATELLITE VS. IRIDIUM

 Iridium's mobile satellite services are complementary to geostationary fixed satellite services.

**Fixed Satellite Services** 



- Requires fixed alignment with satellite for stable use
- Optimal for building connectivity
- Able to support highest data speeds for fixed (stationary) use
- Limited selection of communication terminals and services

#### Iridium Mobile Satellite Services



- Supports omni-directional alignment with satellite for mobile use
- Optimal for use on ships, planes, trucks, and on foot while moving
- Able to support highest mobile data speeds
- Largest variety of communication terminals and services





## IRIDIUM MARKETS

Today, Iridium offers a suite of mobility-focused communication products providing voice communications, tracking, and broadband access across several vertical markets.



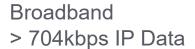
Maritime



Land



**Aviation** 







Tracking > Short Burst Data





Voice > SD and HQ quality









### **MARITIME**



 Iridium's maritime products can be installed on commercial to provide voice and data communications off the Alaska shores.

#### Broadband



**Products** 

- **Use Cases**
- Internet access
- 3 voice lines
- All-weather design

### Examples



### Tracking



- Vessel monitoring
- Catch reporting
- eLogbook ready

Vessel Communications



- Phone calling
- Email access
- GMDSS ready







### **AVIATION**



 Iridium's aviation products can be installed on commercial and recreational aircraft to provide voice and data communications to the Alaskan airspace.

#### Push-to-Talk





**Use Cases** 

**Products** 

- Safety communication
- Search & rescue
- Medical response

Examples



#### Tracking



- Pilot safety
- Tracking / messaging
- SOS response



Flight Communications



- Phone calling
- Graphical weather
- Messaging / ATC







### LAND



 Iridium's land products can be installed on buildings, vehicles, or handcarried to provide voice and data communications throughout Alaska.

#### Broadband

**Products** 





- **Use Cases**
- 704kbps IP data
- Internet access
- 3 phone lines

Examples



# Personal Communications



- Lone worker safety
- Tracking / messaging
- SOS response



#### Satellite Phones



- Phone calling
- Text messaging
- SOS response



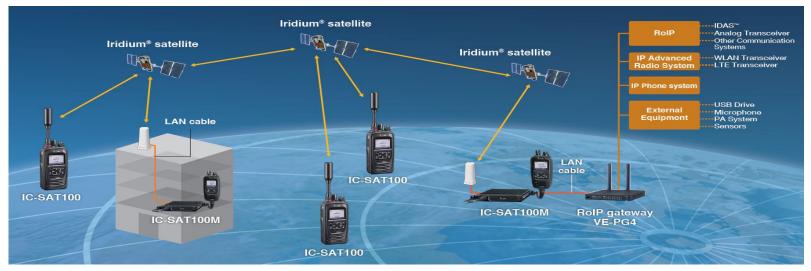




## **LAND**

ICOM Push-to-Talk radios + interoperability gateway









### TELECOMMUNICATIONS IN ALASKA'S ARTIC

- Rural Villages
  - Improved communication and safety for logistics, travel, distribution using Iridium mobile satellite services
  - Examples:
    - Satellite voice, tracking, SOS
- Economic Development
  - Access to mission-critical information and operational coordination to complete projects and deliver revenue faster and safer
  - Examples:
    - Broadband Internet, push-to-talk, conference calling, remote worker monitoring

Iridium is ready to connect Alaska today!



