

Connected Aircraft & Digitalisation of Maritime

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- Inmarsat Overview
- Global Xpress-Satellite and Ground Infrastructure Coverage
- Connected Aircraft
- Connected Ship



A brief history

The industry leader for 40 years

1979 The International Maritime Satellite Organisation was formed as a not-for profit organisation set up by the IMCO, known as In Mar Sat.

1990 Launch of Inmarsat-2 F1 satellite into geostationary orbit.

1992 The IMO, the agency of the United Nations responsible for ship safety, began a phase-in of a new system called Global Maritime Distress and Safety System, or GMDSS for short.

1996 Inmarsat-3 F1 was launched. The first

of five satellites using the latest spot-beam technology to reallocate bandwidth to meet demand.

1999 Inmarsat became the first inter-gov organisation to restructure into a private company.

2005 Inmarsat-4 launched. These fourthgeneration satellites, delivered Inmarsat's Broadband Global Area Network (BGAN) and established the world's first global 3G network.

2010 Release of Inmarsat's first phone, the IsatPhone Pro.

2013 The successful launch of Alphasat as one of the most technically advanced satellites for civilian applications and Inmarsat-5 F1 the first of four satellites to deliver Inmarsat's revolutionary Global Xpress service.

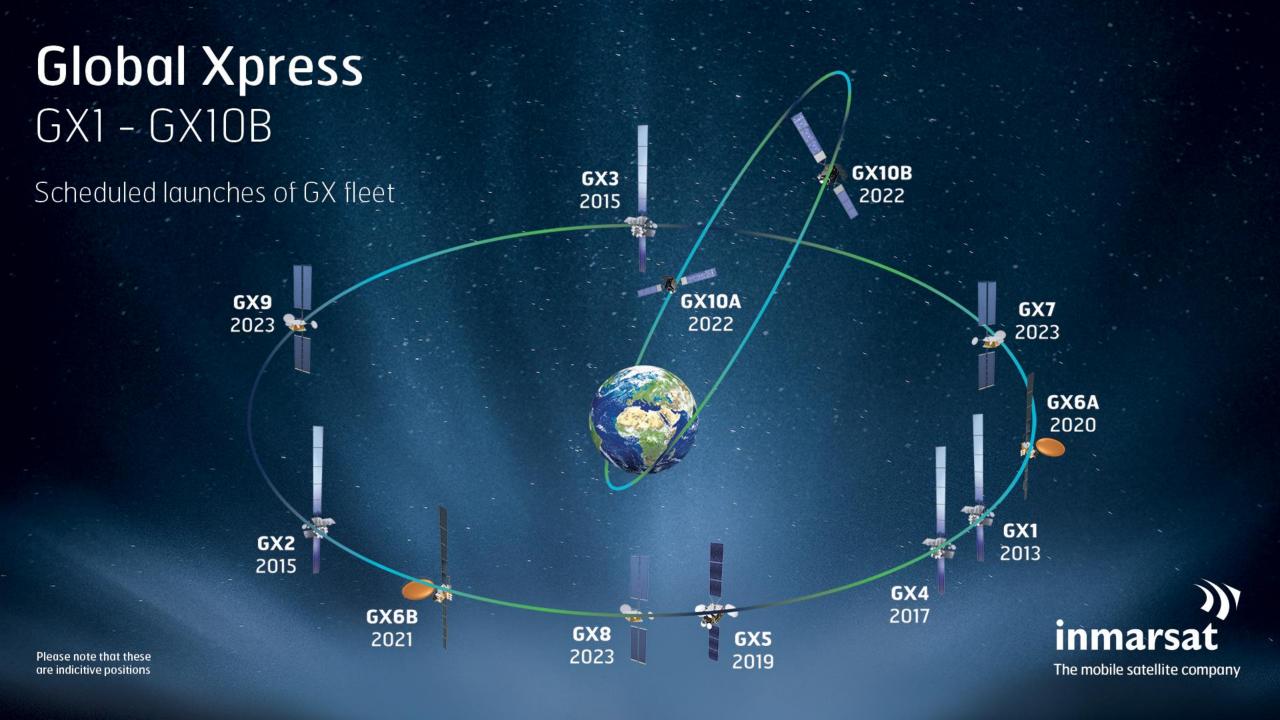
2016 Successful launch of Inmarsat-5 F2 and

Inmarsat-5 F3.

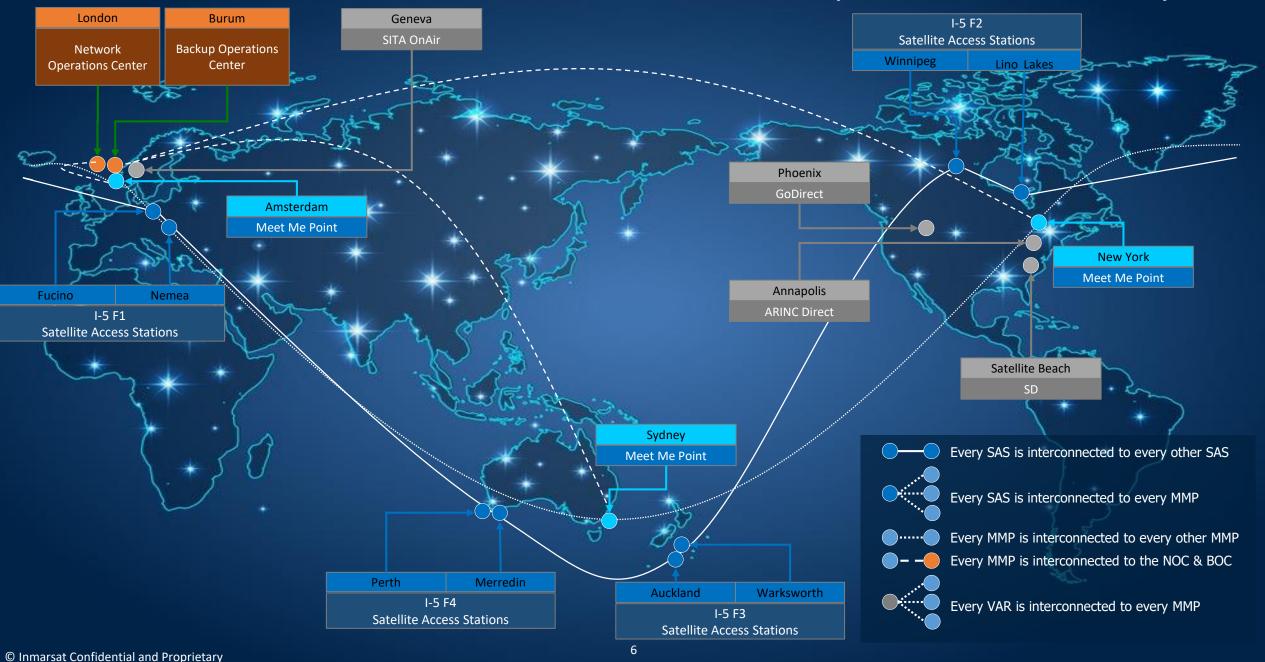
2017 Successful launch of Inmarsat-5 F4 and Inmarsat S EAN.

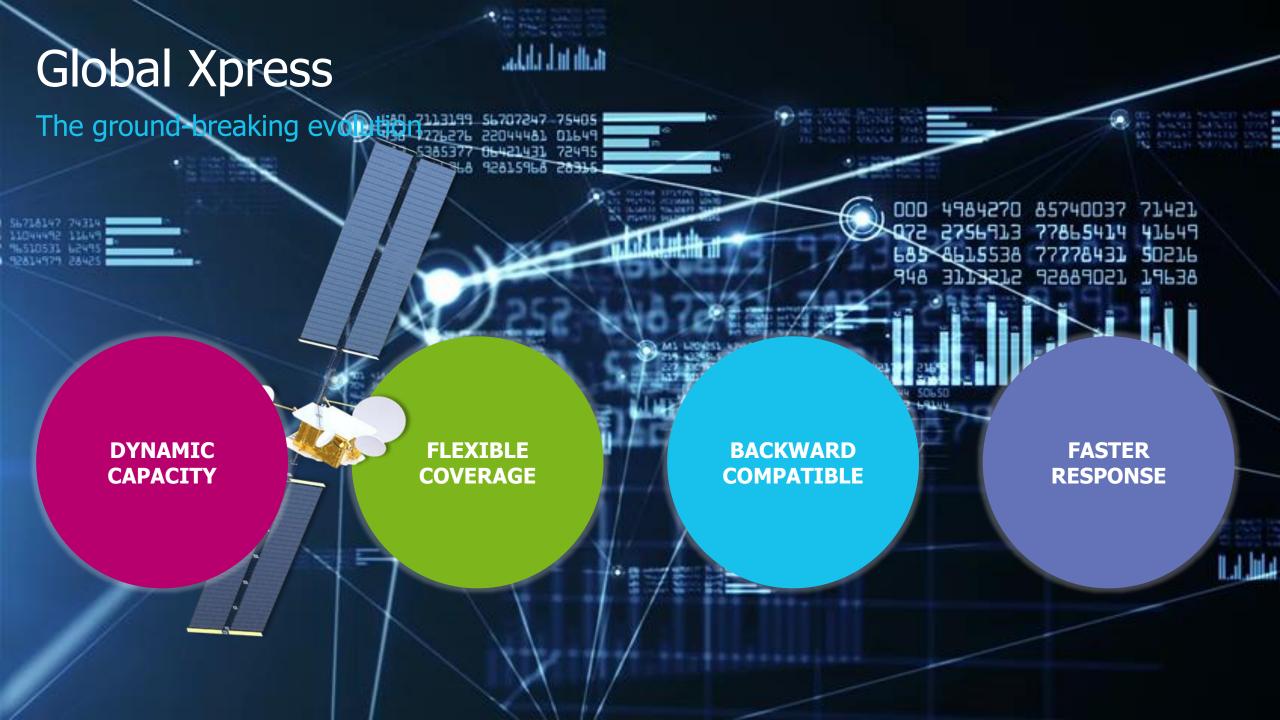
2019 Inmarsat's 40th anniversary.

What differentiates Inmarsat... Safety, Continuous Global Network Long-term security and seamless broadband reliability commitment protection mobility connectivity



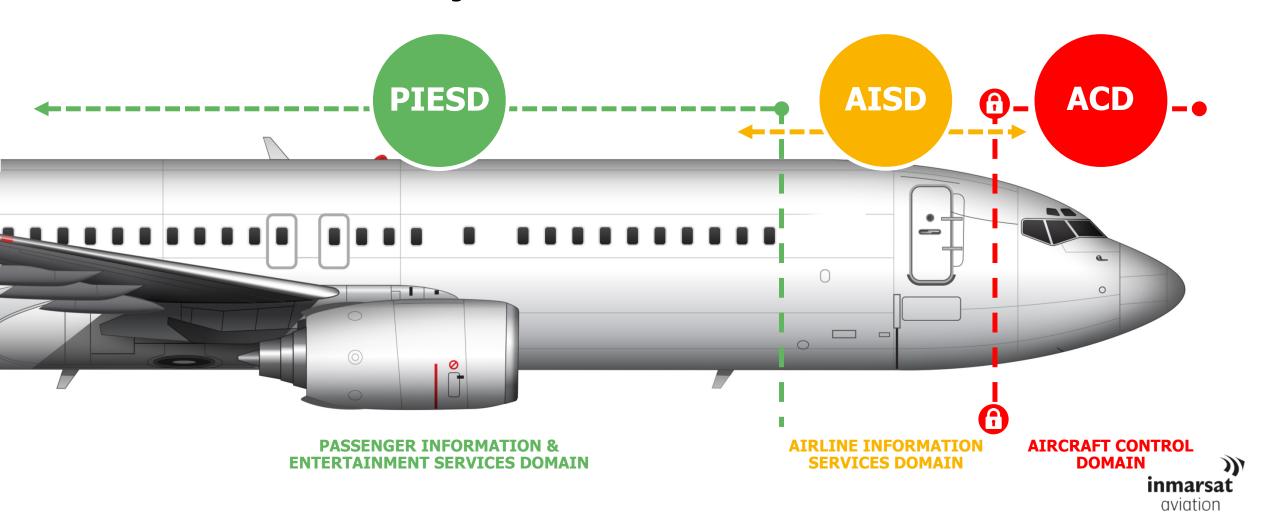
Robust Ground Infrastructure - Gateway & Connectivity



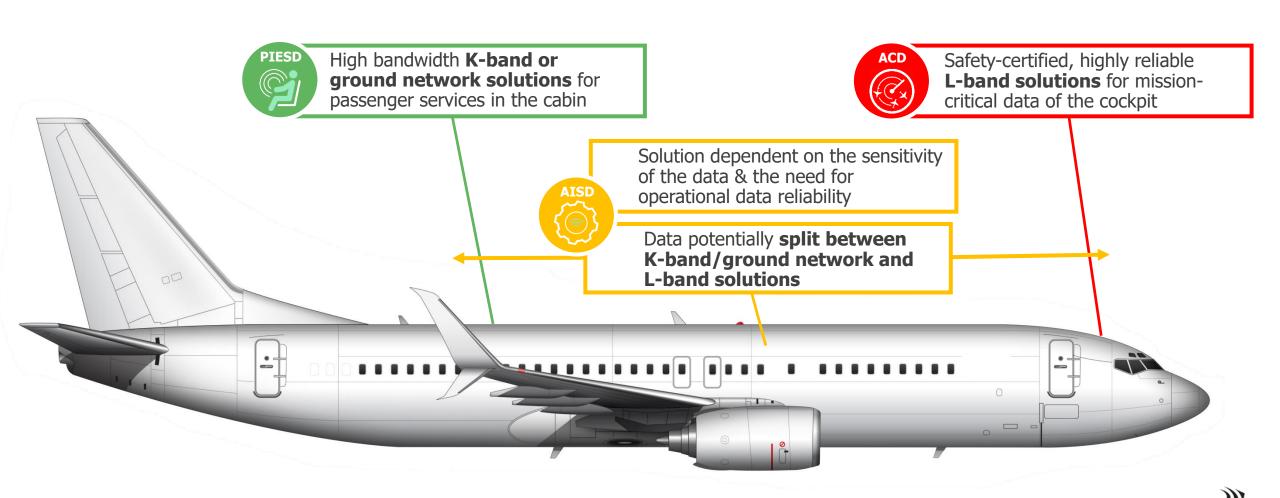


The Complete Connected Aircraft: Fit for purpose solutions to deliver benefits

ICAO recognizes three distinct aircraft data domains



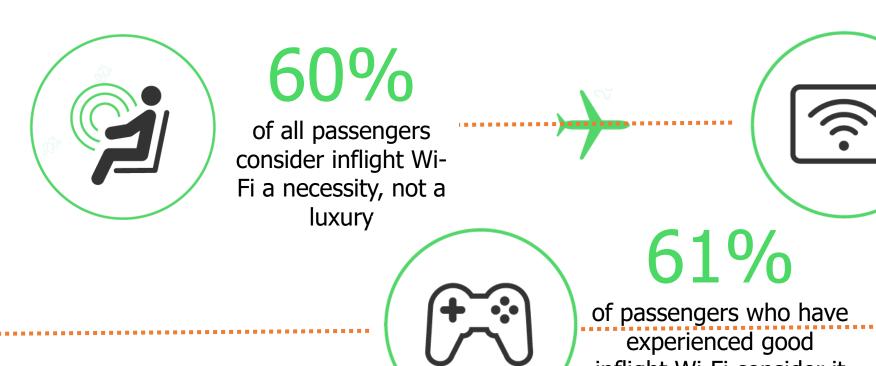
Requirements of All Three Domains



inmarsat aviation

Connected Passengers: PASSENGER INFORMATION AND ENTERTAINMENT SERVICES DOMAIN (PIESD)





44% said they would stop using their preferred airline if the Wi-Fi quality was poor

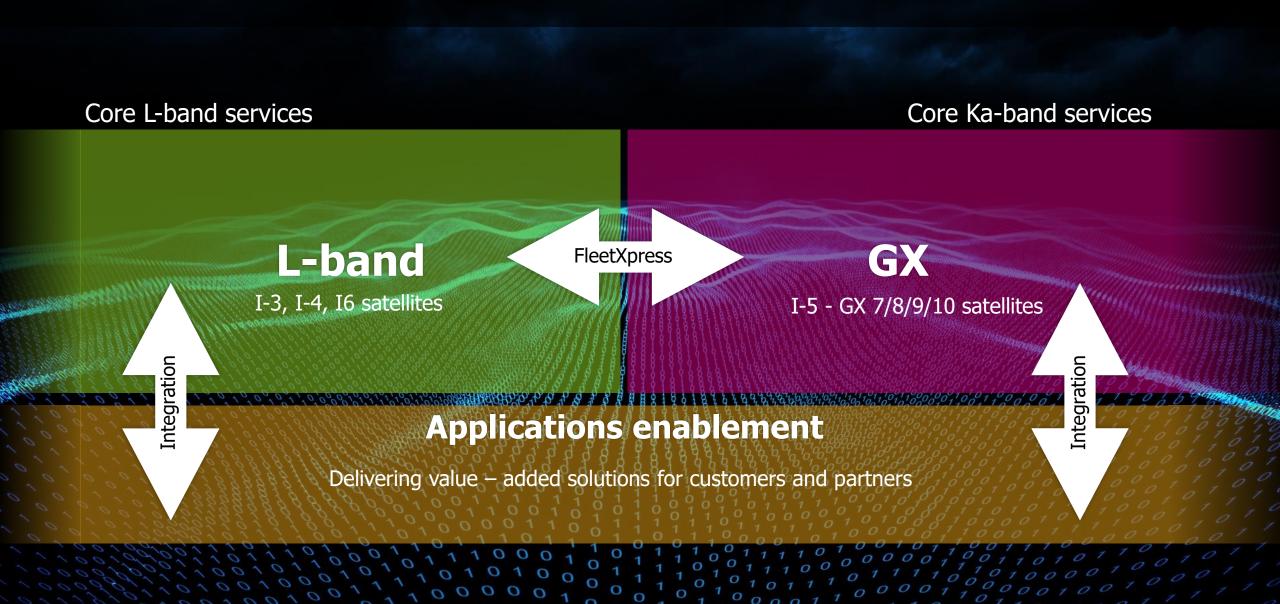
of passengers who have experienced good inflight Wi-Fi consider it more important than on-board entertainment when selecting a carrier



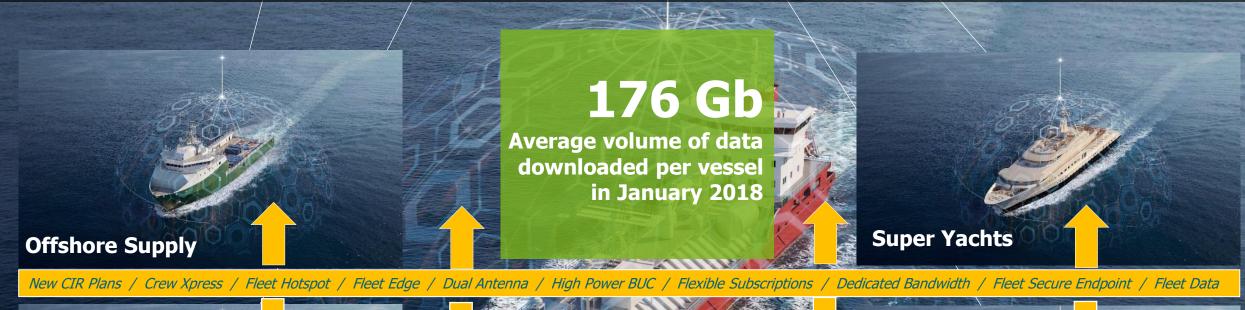
Source: GfK Passenger Survey 2017

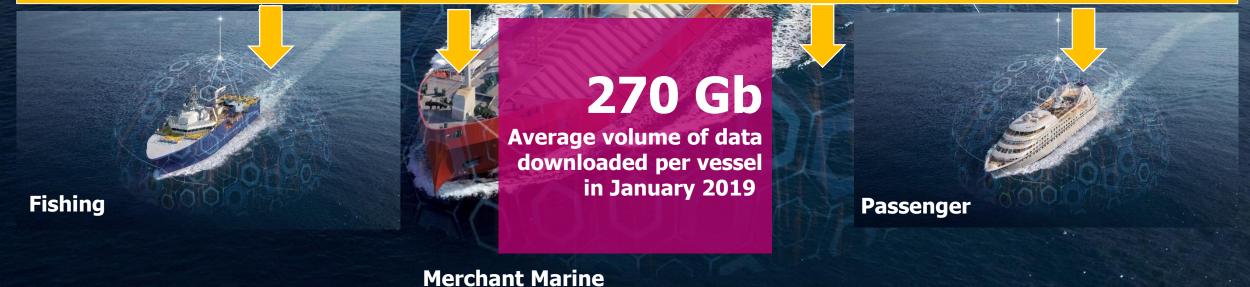
Passenger entertainment and network services: This domain can comprise multiple systems that interconnect, such as passenger device connectivity systems and broadband television or connectivity systems.

Defining Connectivity at Sea



Digitalisation in all key maritime sectors The 'connected vessel'







Connected Aircraft/Ship – Partners

Some of the partners vital to delivering Inmarsat services:

















Intellian