

## 2019 World Radiocommunication Conference Agenda Item 9.1.4

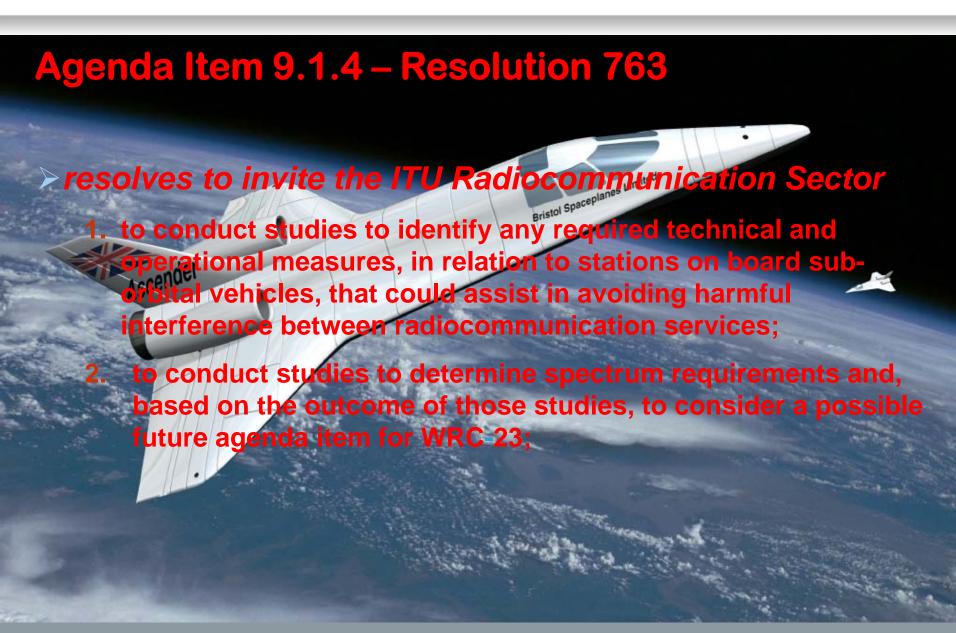
# Stations on-Board Sub-Orbital Vehicles (Spaceplanes)

ICAO Regional Preparatory Group meeting

Mexico City, Mexico 6-7 February 2018

John Mettrop UK CAA





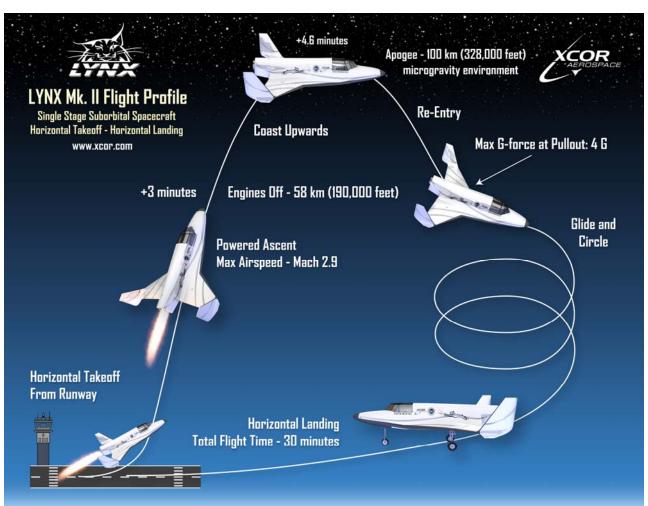


#### ITU-R Question 259/5

- > decides that the following Questions should be studied
  - 1. How will planes be operated including a description of the various phases of flight?
  - 2. During which phases of flight described in *decides 1*, will, if at all, need to be supported by air traffic control systems and what sort of systems are expected?
  - 3. What radio links will be required to support planes operations and under what radiocommunication service definition will they fall?



#### **Space Plane Applications**



- ➤Space tourism
- ➤ Satellite launch
- ➤ Hypersonic travel
- ➤ Scientific research
- Technology testing
- Remote sensing



#### **Aircraft or Spacecraft?**

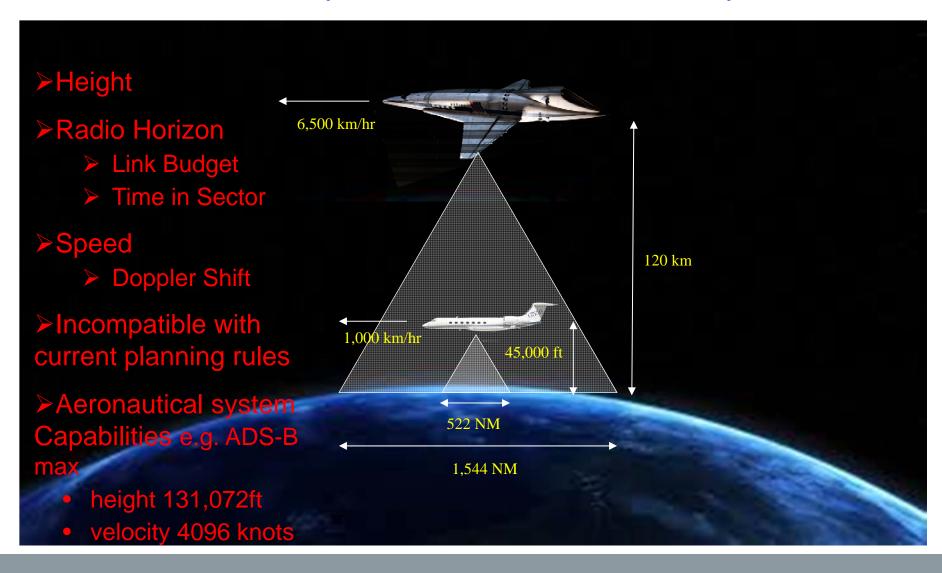
➤ Aircraft: Any machine that can derive support in the atmosphere from the reactions of the air other that the reactions of the air against the Earth's surface (ICAO)

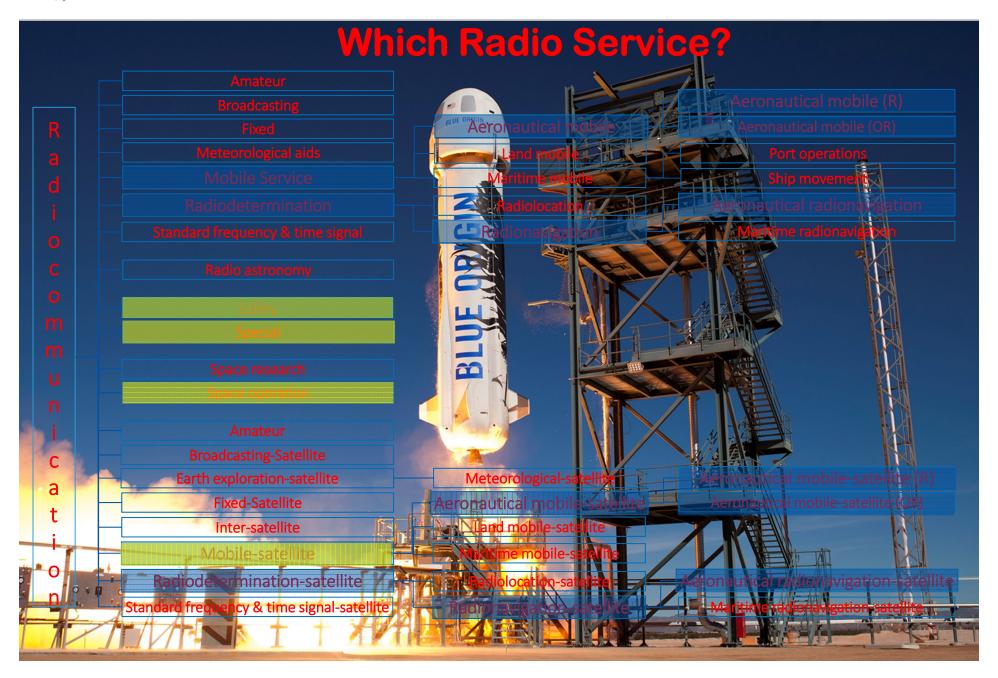


spacecraft: A man-made vehicle which is intended to go beyond the major portion of the Earth's atmosphere. (ITU)



#### **Issues with Respect to Aeronautical Spectrum**







#### **ITU Studies**









### Questions