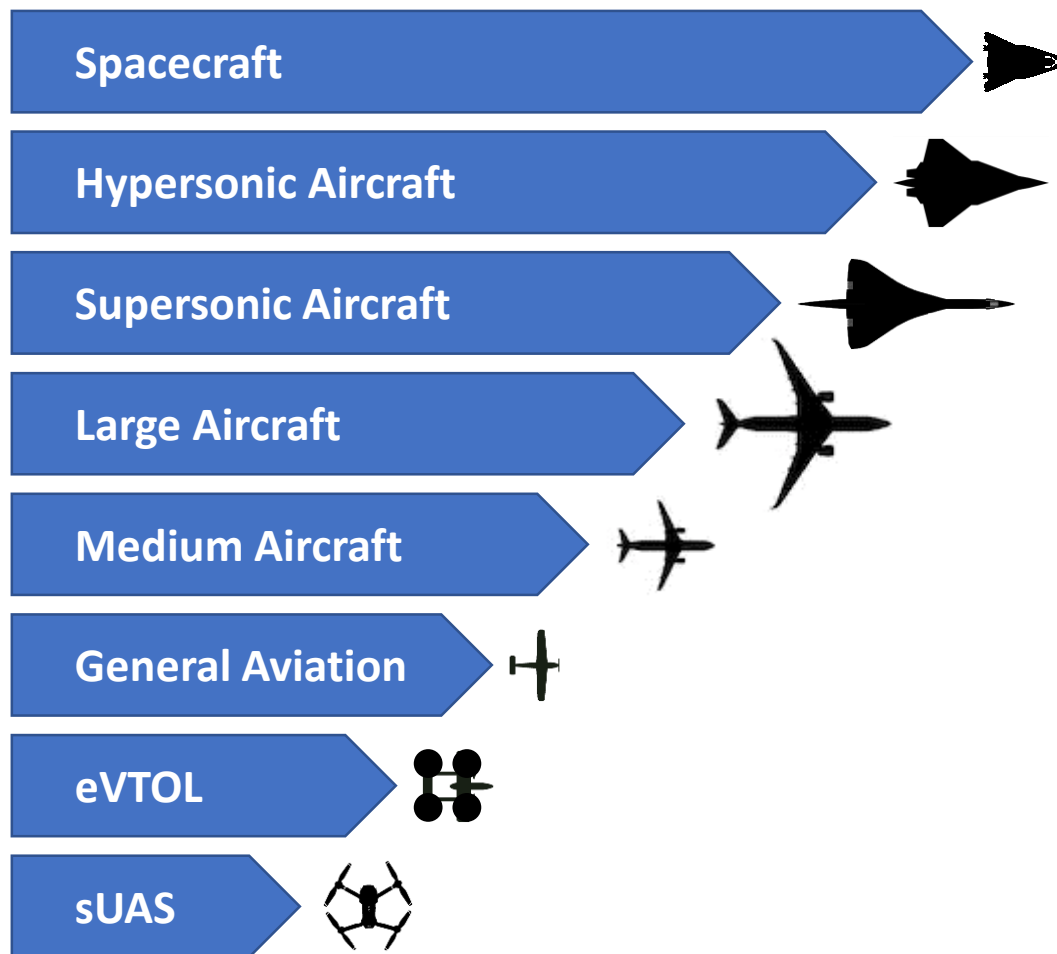




Diversity in the Air and on the Ground Different Aircraft with Different Requirements



- Conventional aircraft **share the airspace** with spacecraft. They might be joined soon by other users...
- It is just the beginning of the journey for **Large Aircraft**.
- It is likely that civilian **supersonic** aircraft will fly again by 2040. Will **hypersonic** flight be a reality by 2070?
- Urban/Rural Air Mobility (UAM/RAM) has existed for decades (helicopters) but might expand rapidly with **eVTOL and UAS**. Conventional aircraft will fly along with this new traffic in the lower airspace.
- ATM modernization (e.g., NextGen, SES) will help meet the medium-term needs. A breakthrough in **automation** might be necessary for addressing long-term challenges.
- **Electric aircraft** require a specific infrastructure on the ground that has yet to find its business model and be deployed rapidly to ensure accessibility.
- Could a **revolution in the economic model** of air carriers bring flexibility, safety, lower air fares, and enable a new period of prosperity in aviation? Manufacturers now lease aircraft. Could they be the flight operators of the future with others marketing routes & bringing clients?

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