



GENERALIST CHALLENGE



What challenges (political, legal, economic, security, diplomatic...) must the future IRIS² constellation meet in order to encourage the development of dual interoperability between the different constellations (telecom, observation, GNSS...)?

Nearly half of the satellites in orbit are part of the constellations used for telecommunications (such as Star Link and OneWeb), navigation (GPS, Galileo, Glonass, Beidou) and Earth observation (BlackSky, Planet, etc.). These constellations are expanding and new ones are being deployed ((Kuiper, GW, IRIS², IRIDE), which leads to a growing number of objects in orbit, sometimes up to tens of thousands.

This situation raises many questions notably concerning orbital crowding, competition between players for access to different resources such as the orbital spectrum and helio-synchronous orbits, as well as access to heavy launchers. These elements have the potential to transform economic models and the space landscape.

From a security and defence perspective, it is critical to understand how to benefit from this new paradigm without giving up on developing distinctive operational advantages. How can this situation be exploited while guaranteeing the security of space assets and meeting defence requirements?

You have 24 hours to brief us about the solutions aimed at encouraging dual interoperability between IRIS² and the other constellations

TO THIS END, YOU SHOULD :

- After presenting the IRIS² project, you can tell us how to establish political-strategic partnerships with other countries and space players to foster collaboration, resource sharing and protocol standardization.
- Discuss the issue of the balance of power between national and international regulations.
- Address the question of international laws and regulations with regard to space activities. This could include questions associated with liability in the event of a collision or damage caused to other satellites, as well as protection of the space environment.
- Deal with the issue of the economic viability of IRIS² taking into account possible cost-sharing under the aegis of dual interoperability to assess how we can position ourselves in a competitive space landscape
- The safety and defence of space assets are critical. You may outline resilience mechanisms in light of any potential risks and threats.



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