

Questions Desired for Each Commercial Engagement

1. What type of technology is it?
 - a. Space vehicle
 - b. Spacecraft
 - c. Software/hardware (Modeling and simulation?)
 - d. In-space propulsion
 - e. Constellation
 - f. Deep-space communication
 - g. Support infrastructure equipment
 - h. 5G
 - i. Advanced satellite systems
 - j. 3D printing
 - k. Big data
 - l. Quantum computing
2. What Technology Readiness Level (TRL) is the program at?
3. Specifications/details of the technology?
4. Does it have any partners/advocates/endorsers?
5. What classification is it at?
6. Does the technology have any Intellectual Property Status (IPR)?
7. What type of payload does it incorporate?
8. What is the life cycle/duration of the mission? What happens at the end of life (EOL)? Is there an end of mission or time frame for deorbit?
9. Is your technology designed for dynamic maneuvers or RPO?
10. Is there a person-in/off/on-the-loop? Automated?
11. What is the schedule/testing outlook to determine validity? System prototype demonstration in a space environment?
12. Any counter jamming or EW hardening capabilities?
13. If fuel is utilized:
 - a. What type and is it refuellable?
 - b. Can it transfer fuel to other assets?
 - c. Can it do multi-mission/training?
 - d. How many missions?
14. If the program concerns data, who has access or could access the data?
15. Scalability - production rate? How many satellites? Timelines?
16. What is the revisit rate (hours)? Do you need more satellites to increase revisit rate?
17. What is the resolution? Have you performed any optical models determining revisit rates and optimizing orbital configurations? What phenomenologies does your technology use to collect information?
18. What transmission medium(S) and data rate(s) does your technology support? What is your antenna configuration (body-mounted radio(s) vs gimbaled, number of radios, etc.)?
19. Are there any assembly, integration, and test (AIT) costs associated with the tech? ESPA Grande or large compliance?
20. Do you have any demos that you can provide on the tech? Any imagery examples?
21. Importance to Warfighter Space Technology Areas/linked to Joint Warfighting Concept (JWC)?
 - a. What concept required capability (CRC), key operational problem (KOP), joint urgent operational need (JUON)/joint emergent operational need (JEON), Science and Technology priority list (STPL) does this capability support?
22. Does it meet the NIST requirements? i.e. standard, common interfaces for refueling, or In-Space Servicing, Assembly, and Manufacturing (ISAM)?
23. Have you done any M&S analysis on your project? What M&S tools have you used?