Smallsat Lightning Round
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March 25, 2021
SmallSat Challenge to SCaN

- Significant growth in smallsat, cubesat, and constellations are creating demand for turnkey communications solutions:
  - Access to multiple networks
  - Interoperable, affordable, low SWaP radios
  - Reduced testing & integration costs
- Smallsat needs don’t differ substantially from flagship missions
- SCaN networks are not well positioned to meet the increase in mission volume and the smallsat cost profile
- A non-government solution is required
- Smallsat needs aligned with SCaN’s approach for commercializing services for our near-Earth users

“Divide and Conquer” approach is tailored to market capabilities and risks...
SCaN is advancing a strategy to transition to commercial services:

- Goddard Space Flight Center (GSFC) pursuing acquisition of new DTE service providers: RFP in FY22
- Glenn Research Center (GRC) Communications Services Project (CSP) is pursuing demonstrations of commercial SATCOM relay: FY22-24
- GSFC’s Near Space Network (NSN) will combine relay and DTE capacity into a single network:
  - Common interfaces for users, access aggregate capacity
  - Reduces barrier to entry – facilitates addition of new providers and capabilities

Expected smallsat mission benefits:

- More ground stations → greater coverage → more data
- Opportunity for new operational constructs with SATCOM relay: systems designed for 1000’s of simultaneous users
- Coupling with web, cloud, and data services
- Lowered integration costs

*Companies listed are illustrative of market activity, not indicative of NASA preference or commitments...
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