



Summary

- Launch cost is an increasingly variable part of enterprise-level trades for US government satellite constellation architectures
- NRO CAAG has developed a parametric cost model for the highest-variability portion of launch cost, SV-to-LV Integration Engineering
- Integration cost is predicted well by two categories of cost drivers:
 - **Mission assurance** drivers related to familiarity and LV provider proven capability with the specific requirements of the mission – First-time SV-LV design pairing, First-time customer use of LV, Heavy-lift LV
 - **Integration complexity** drivers related to the scope of the mission-specific tasks to be performed – ICD requirements, customer-directed studies, mission-unique environmental control equipment, use of western range
- NRO CAAG cost model shows good agreement with NRO and NASA historical data

