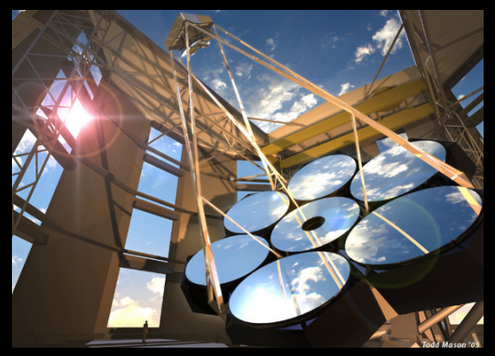
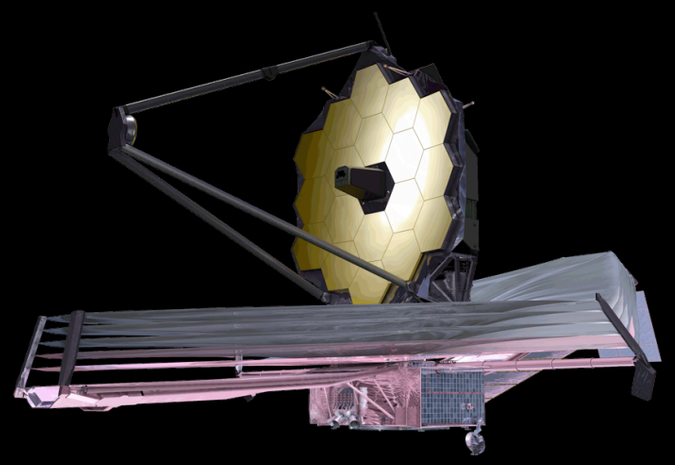
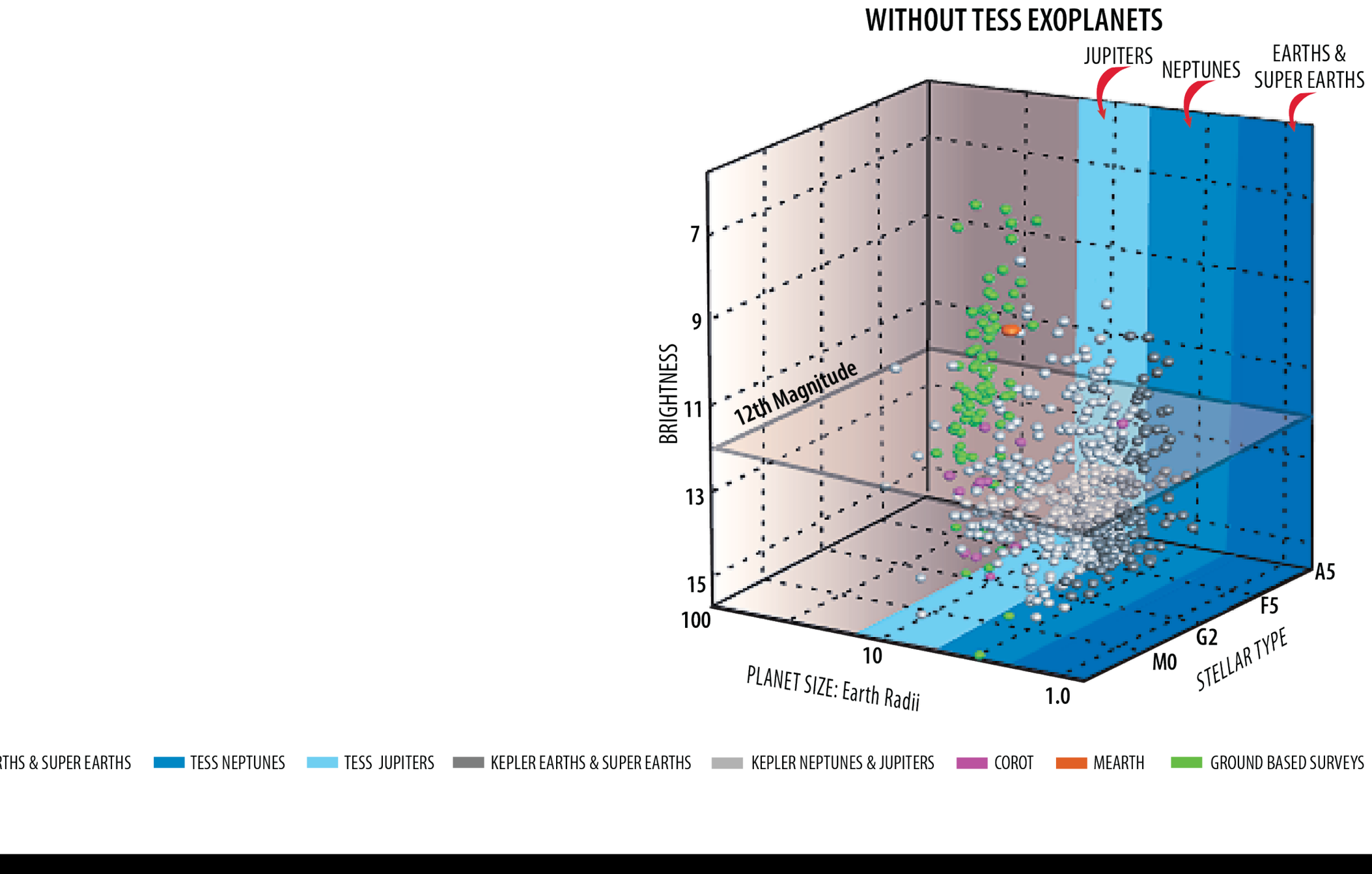
TESS Science Goals and Drivers

- **TESS will discover new exoplanets transiting the *nearest* and *brightest* stars**
  - **TESS will monitor 500,000 stars**
  - **TESS science goals focus on**
    - **Earths and super-Earths (<2.0 R_E)**
    - **Host stars with stellar types F5 to M5**
- **TESS provides JWST and ELTs with the best exoplanet targets for detailed characterization**

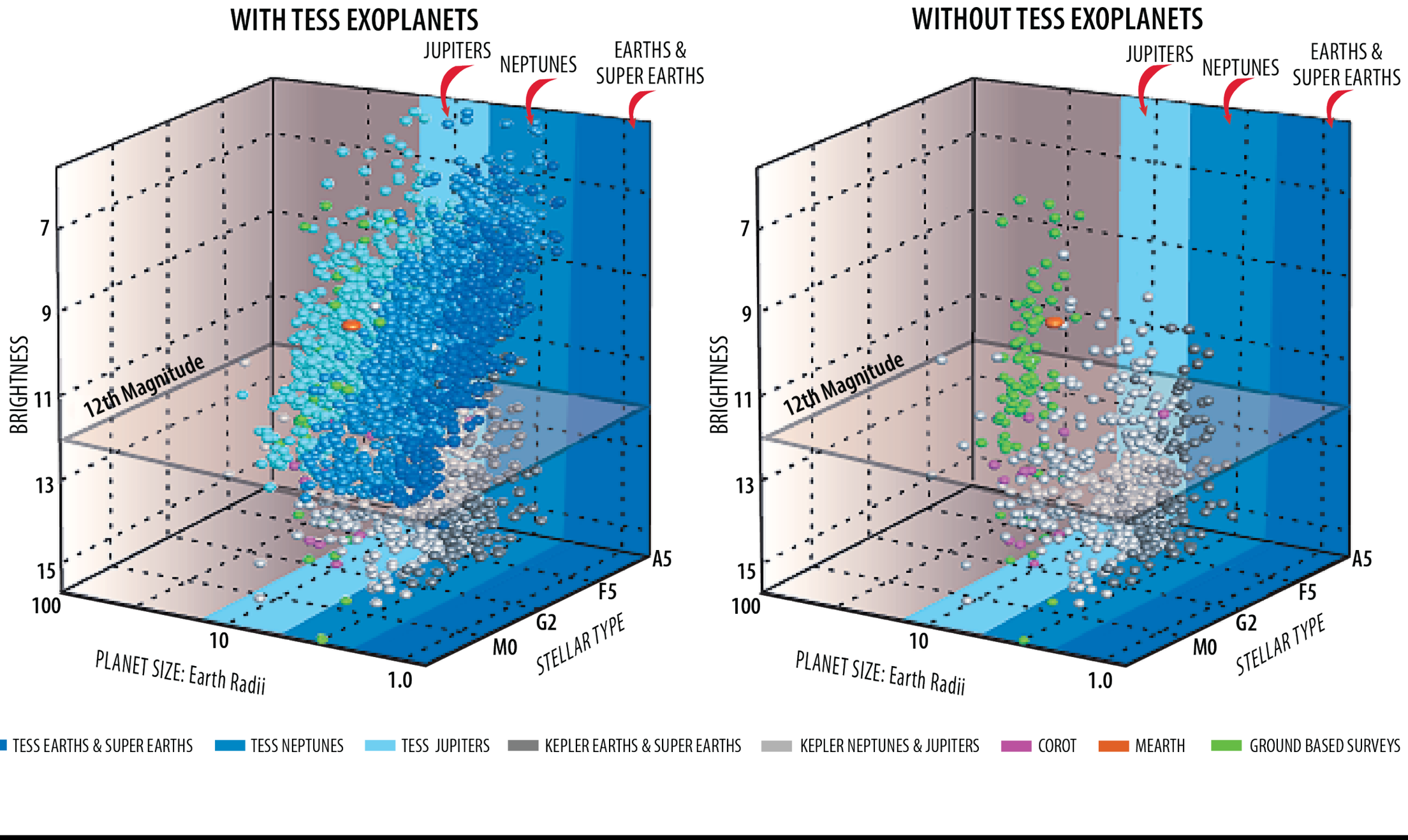




TESS Discovery Space

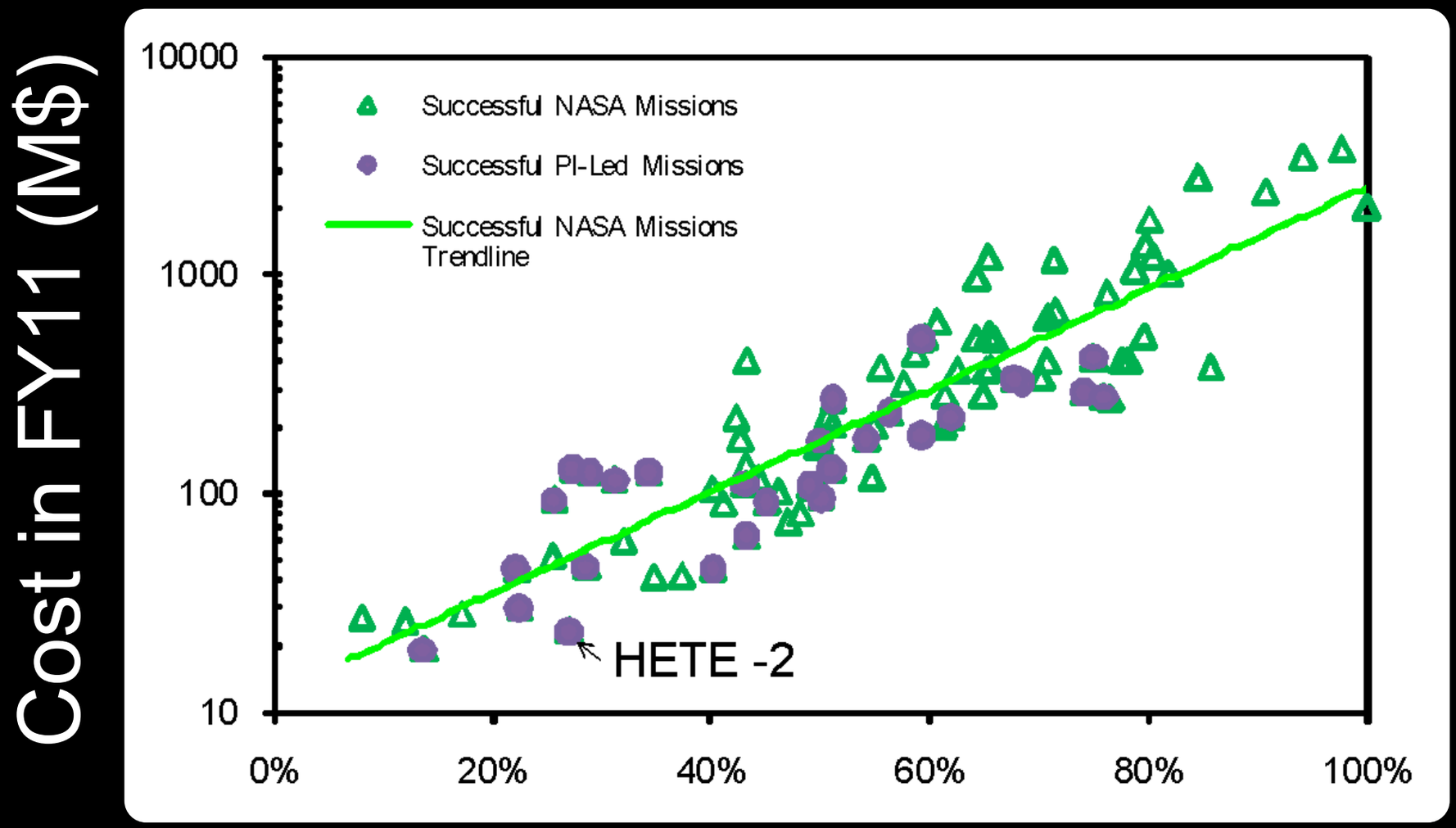


TESS Discovery Space



TESS Based on MIT HETE-2 Mission

- HETE-2 Was Well Within the "Cost Box"
  - Rigorous K.I.S.S. Project Philosophy
  - Small, dedicated scientist/engineer mission team
  - Caveat: Mission challenges are more complex…



Source: The Aerospace Corporation