

## MIT's Future of Human Spaceflight (HSF)

## **Significance**

- ✓ Starts with 1<sup>st</sup> principles. Ignoring destinations and vehicles, proposes a set of objectives whose benefit/cost justify sending humans into space, and key considerations in doing so.
- ✓ Mandates "concrete plans" in HSF policy to assure flow-down of objectives into implementing action.
- ✓ Defines "exploration" in terms of human experience, and in terms of new situations and environments, not just new places.
- ✓ Highlights how little we have "explored" the weightless environment in Earth orbit for the benefit of humankind.

## **Suggested Improvements**

- ✓ Cite benefit delivery to external stakeholders as a specific HSF policy "concrete plan," in addition to ISS utilization and Moon/Mars strategy.
- ✓ Propose an "external accountability" framework for NASA HSF benefit delivery (National Academy model?)
- ✓ Change "science" to "knowledge" as an HSF objective.
- ✓ Recognize human life science research as a primary objective.

