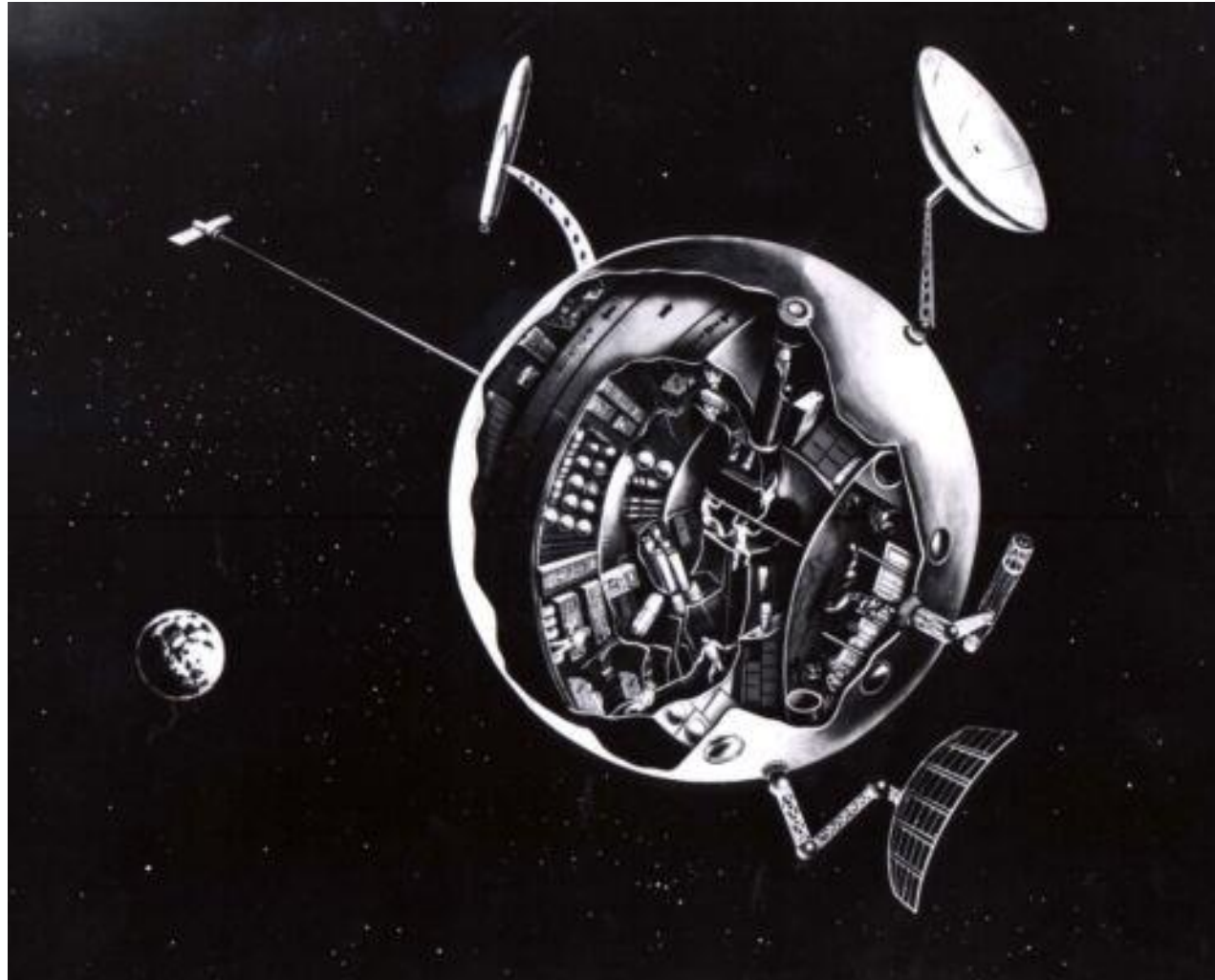




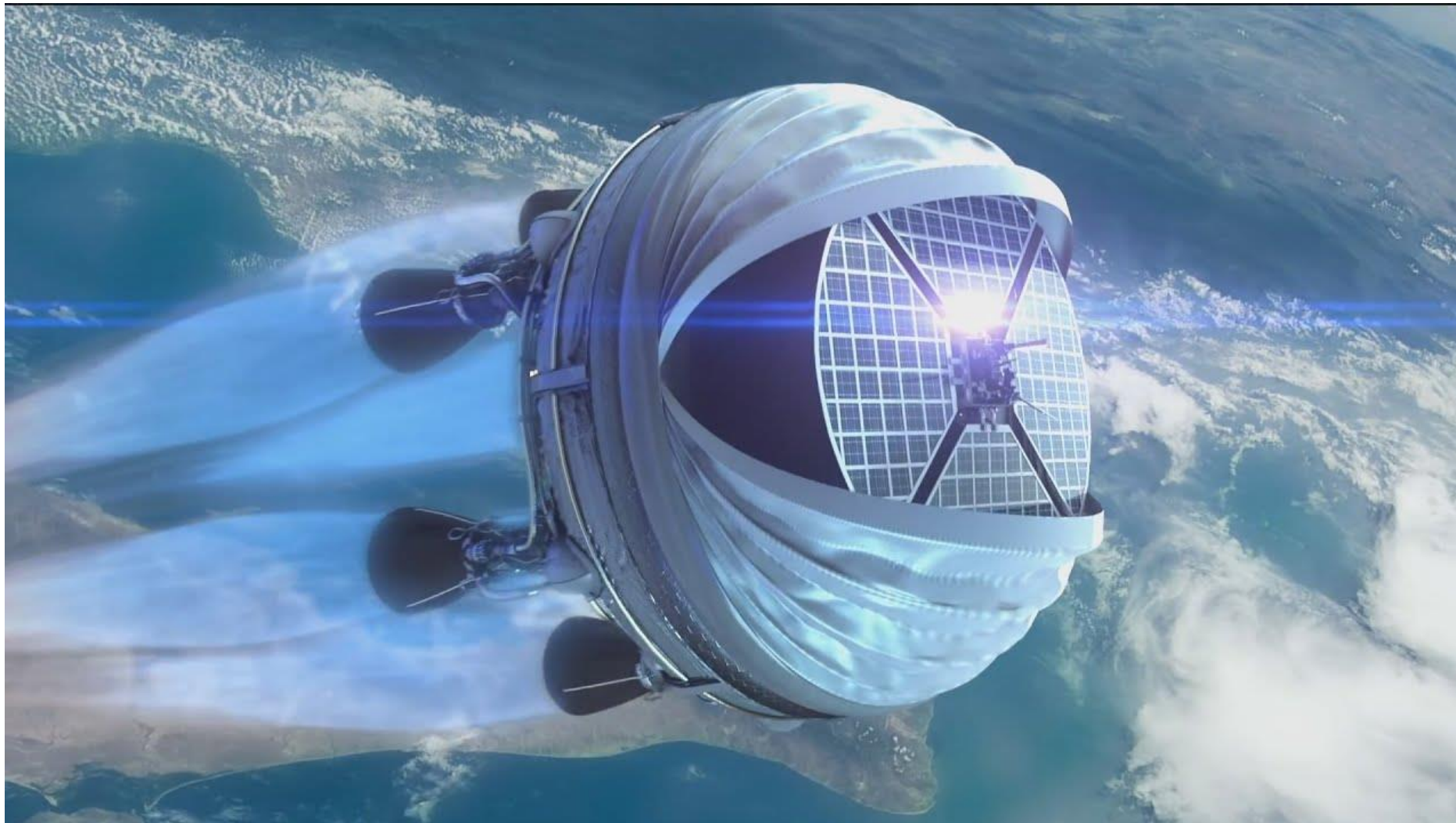
The Spacecraft of Tomorrow

ACT workshop - Looking 20 years ahead

Without Advanced Concept Team...



With biomimetics (only)...





This is what we want



This is what we want



Digital design
Digital twin

Functional & CAD

AR/VR

Design in a
metaverse

Advanced
manufacturing

Innovative
structure

Propulsion



Easier operations

Autonomy

Intelligence

More sensors

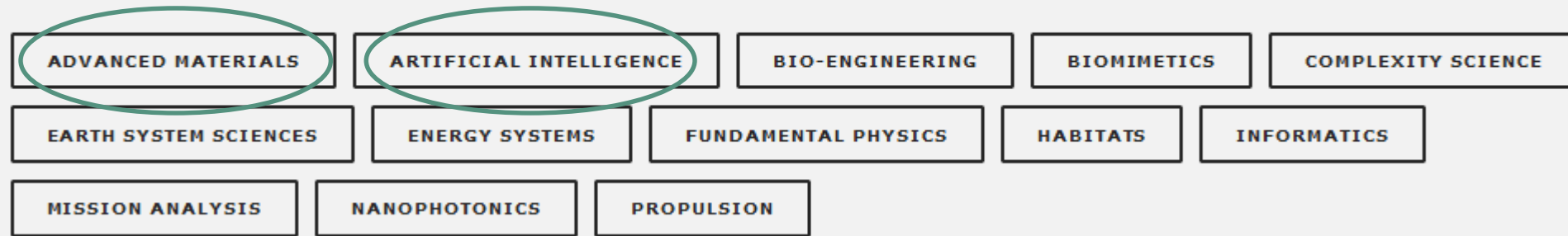
Science opportunity

One size fit all

Spacecraft? Rovers,
landers, moon
village, etc.

Complexity

Our research



Combine all researches into a system

Transfer the research into a TRL lift: Preparation, TDE, GSTP

All disciplines, experts, projects, to be aware of ACT research

- Dissemination
- Team works (RF associated to discipline experts)
- Awareness in ESA