



Cosmic Charlie

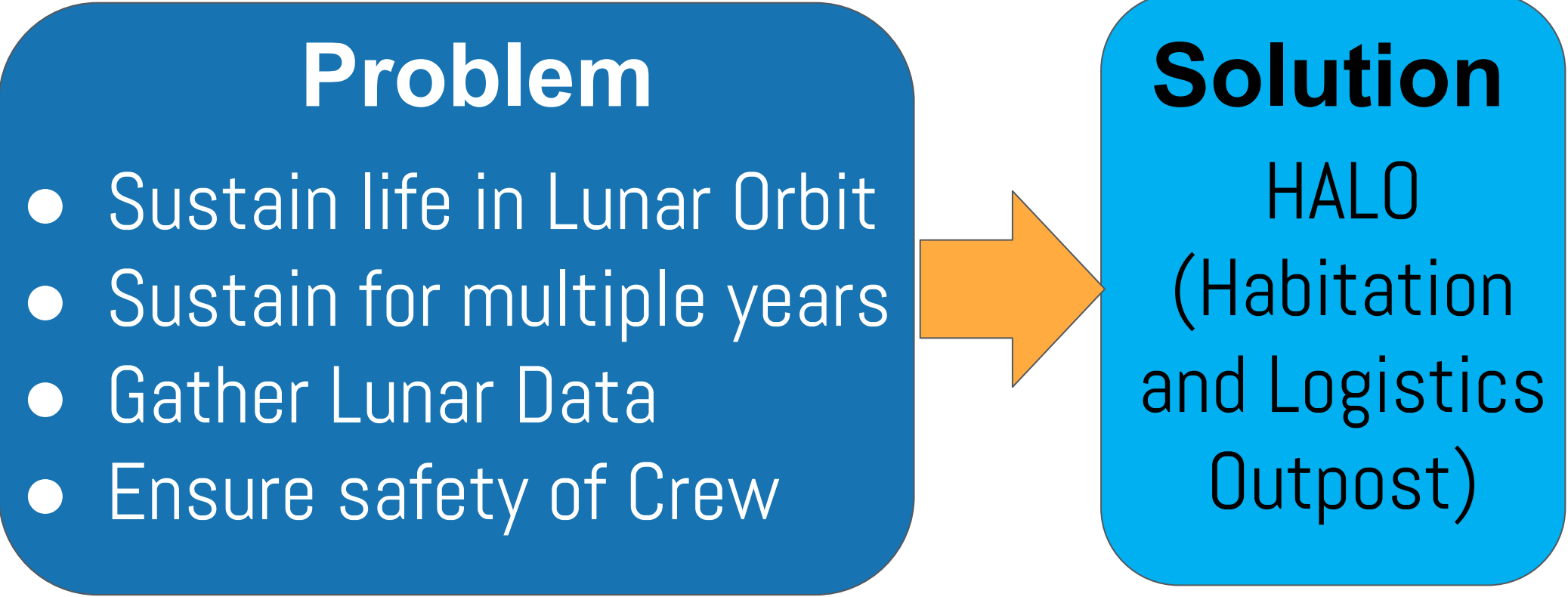
Week 2, Section 1

Nasa Consultant: Gotthard Janson



- Drew Sibert - Systems Engineer
- Renit Gupta - Subtopic 1 Manager
- Caralyn Pittman - Subtopic 3 Manager
- Sneha Chavan - Integration Manager
- Robert Pringle - Subtopic 1 Technician
- Jazmin Bocanegra - Subtopic 3 Technician
- Harish Pravin - Design Manager
- Lili Cunningham - Subtopic 2 Manager
- Aedan Scaria - Subtopic 3 Technician
- Vasundhra Arulazi - Design Engineer
- Raghav Gupta - Subtopic 2 Technician
- Angela Clayton - Game Moderator

Mission Objective: Create a sustained presence in lunar orbit



- Input from other Teams
- 1

Station Research & Communications

Specific Radio Frequencies (S and Ka band)
- 2

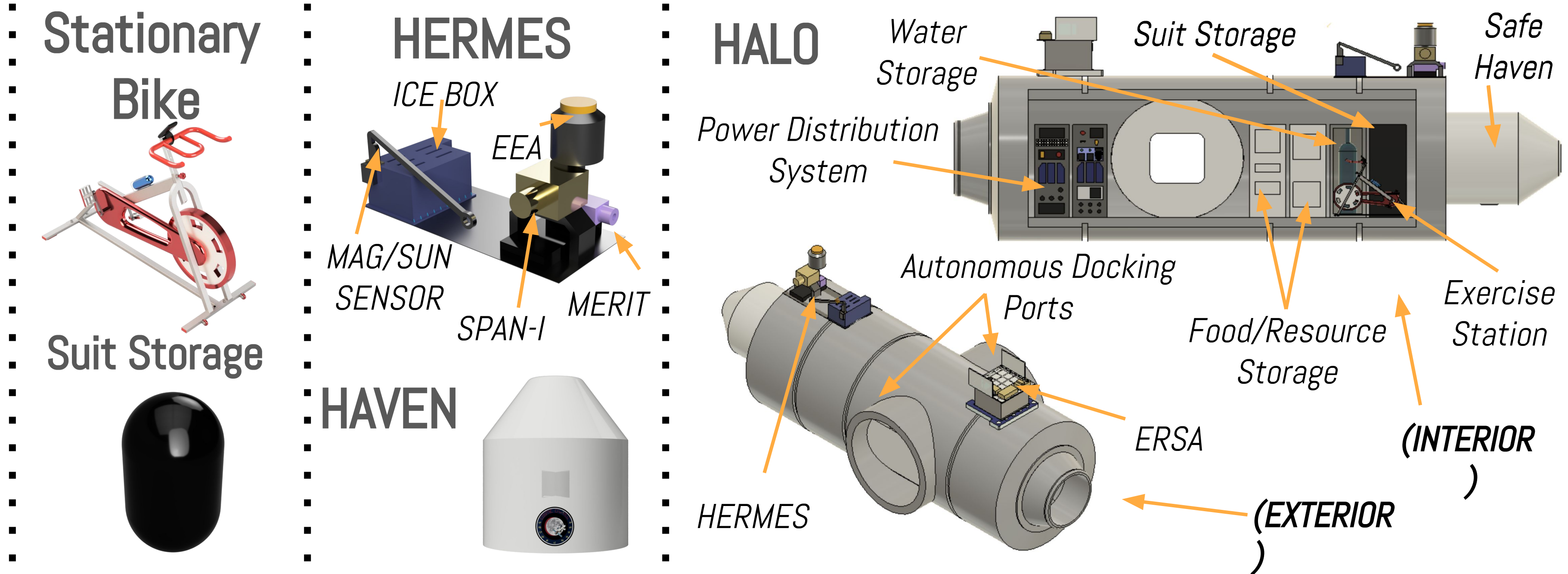
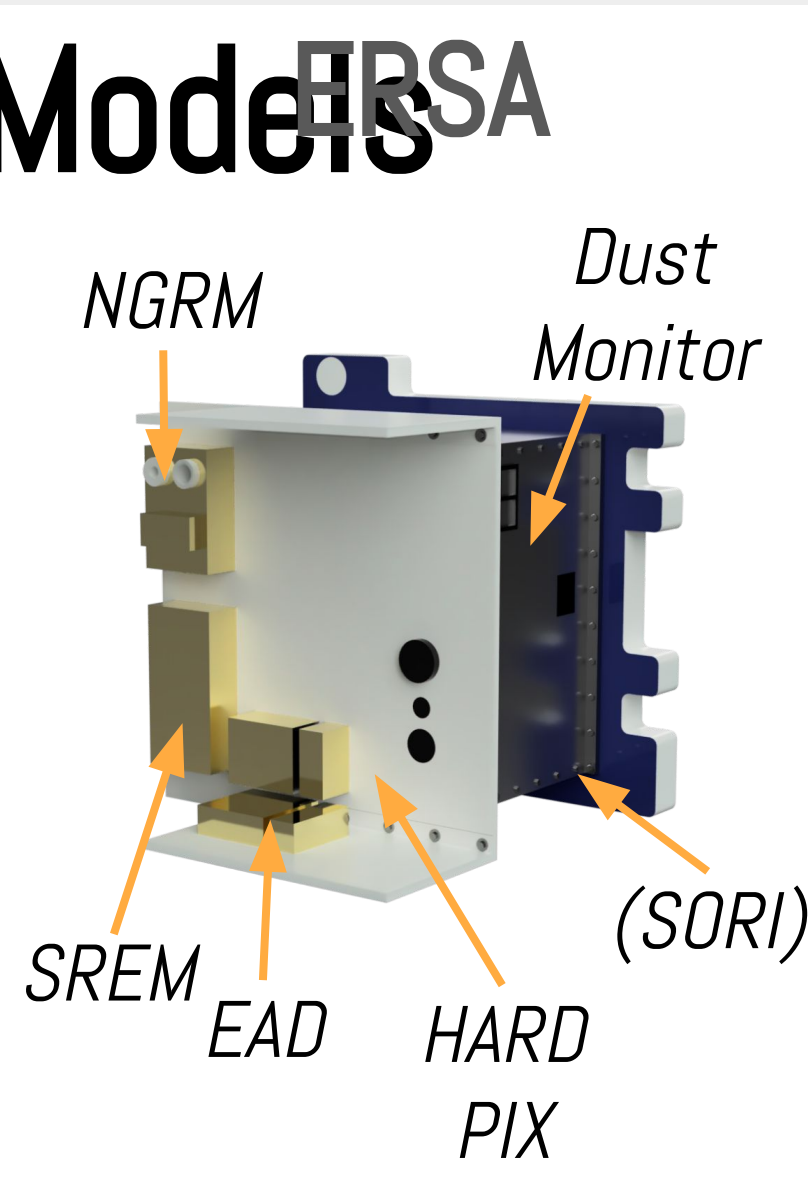
Maintain crew health

Direct Communications, and Holograms (future)
- 3

Protect Crew from Space Weather

Polyethylene

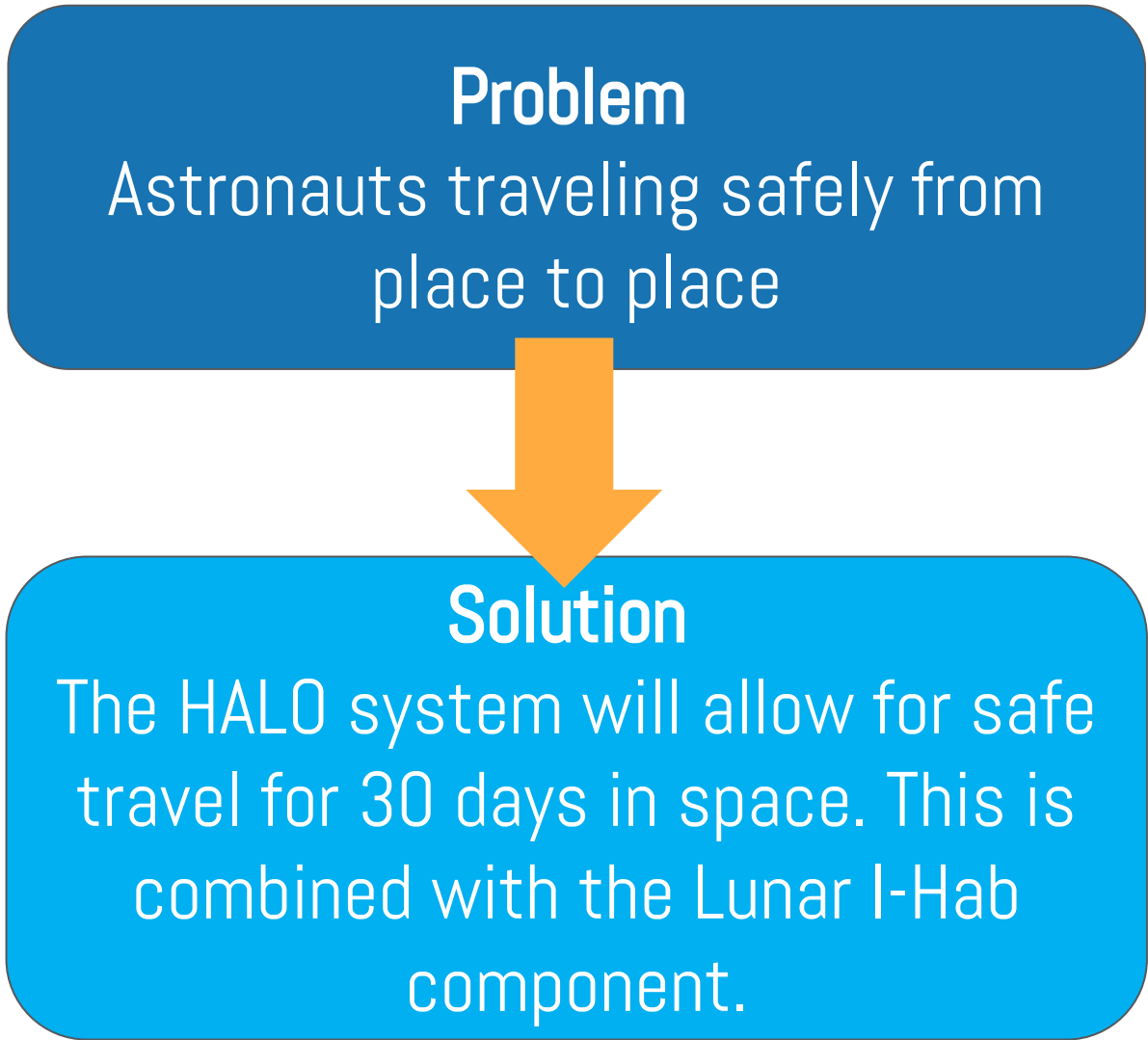
CAD Models



Subtopics

Transportation & Research

Transportation



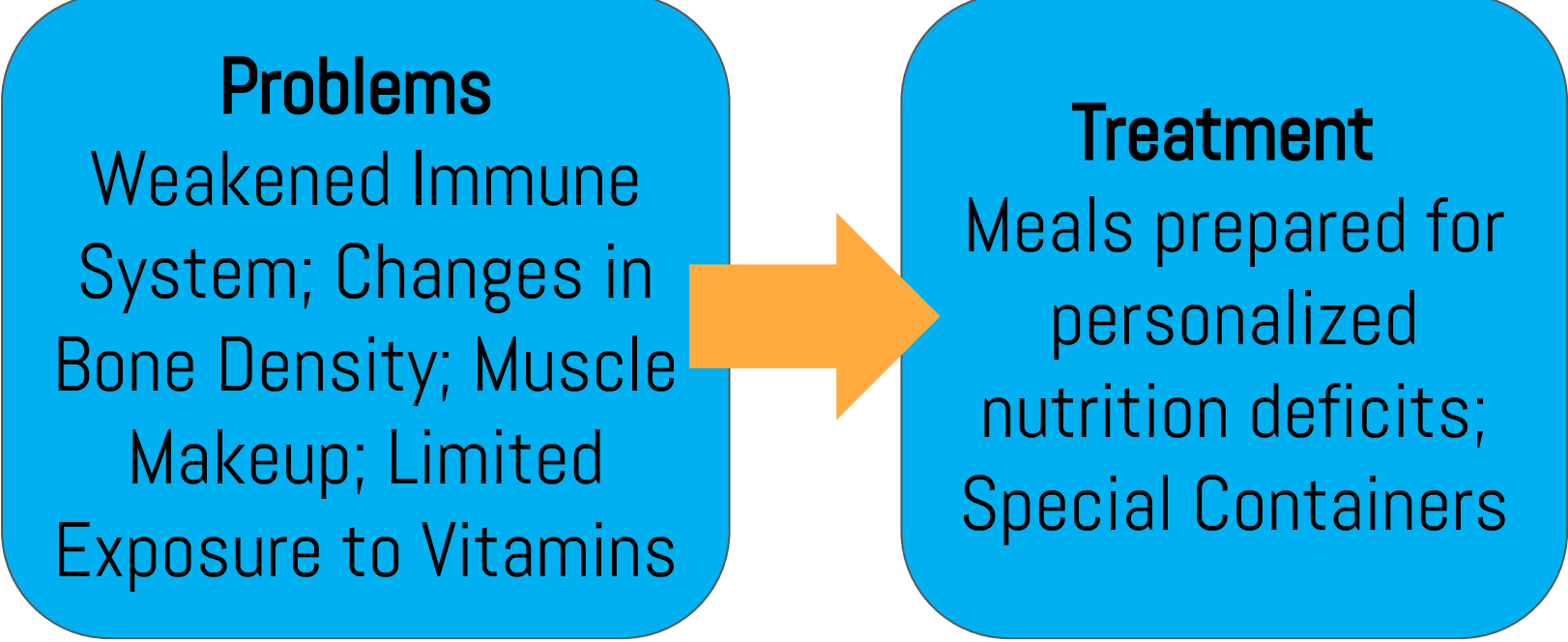
Research

- Topics**
 - Geological History
 - Habitable Zones

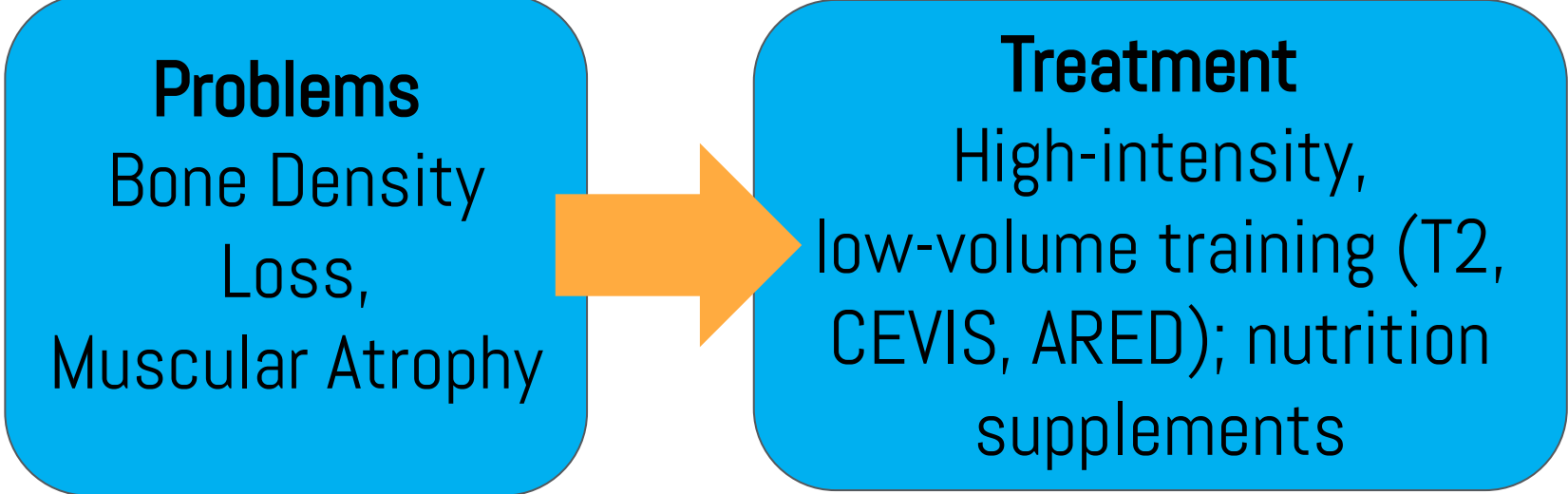


Nutrition, Exercise, and Interpersonal Relationships

Nutrition



Exercise

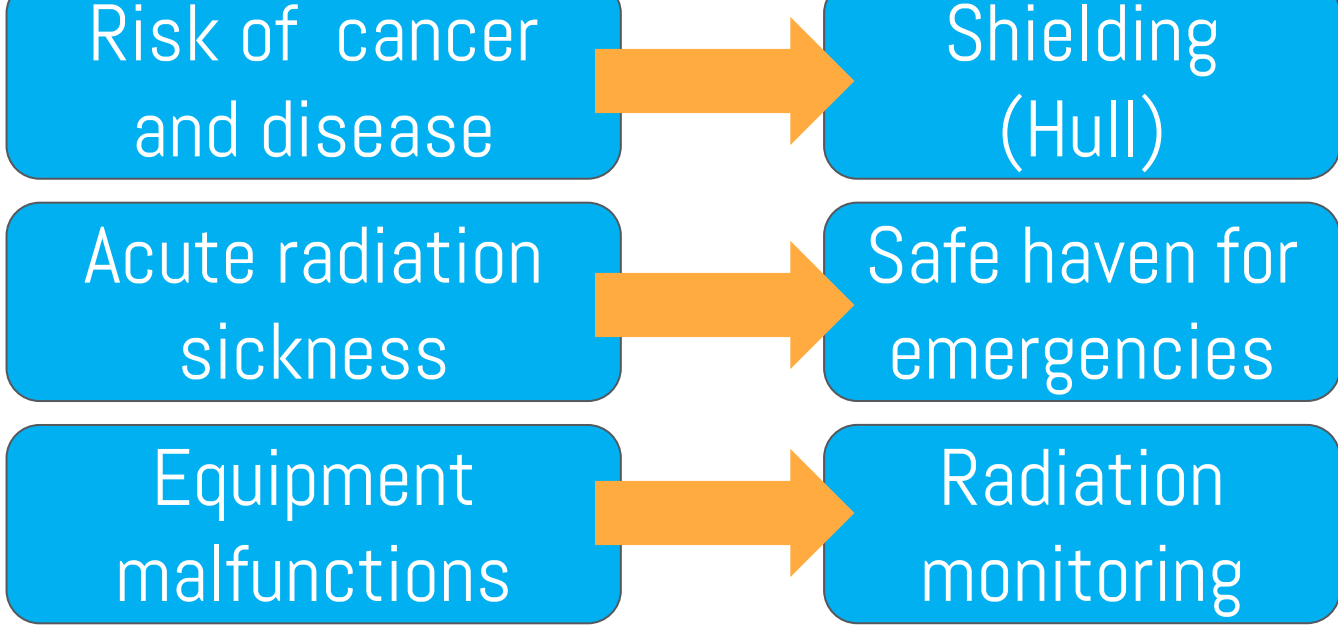


Interpersonal Relationships

- Foster Relationships**
 - Communal Spaces, Social Activities, Conflict Management
- Maintain Mental Health**
 - Plants/Living Things, Standardized Schedule, Sleep Cycle/Quality Sleep
- Stay Connected**
 - Family Conferencing & Commun., Media/Book, Connection to Earth

Space Weather & Radiation Hazards

Radiation Hazards



Space Weather Protection

- Hull Materials

Aluminum

BNNT Nanotubes

Polyethylene
- Safe Haven Room

Attached to Module

Shielding Materials

Solar Storm Protection

Radiation Monitoring

