



SBAG Goal 2: Defend Planet Earth

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Goal 2: Defend Planet Earth

Understand the population of small bodies that may impact our planet and develop ways to defend the Earth against any potential hazards.

- 2.1. Identify and track potentially hazardous objects**
- 2.2. Characterize the properties of near-Earth objects to advance both our understanding of the threats posed to our planet and how Earth impacts may be prevented in the future**
- 2.3. Develop and maintain rigorous models to assess the risk to Earth from the wide-ranging potential impact conditions**
- 2.4. Develop robust mitigation approaches to address potential impactor threats**
- 2.5. Continue to develop coordination and civil defense strategies and procedures to enable emergency response and recovery actions**



Current Planetary Defense Objectives - 1



- 1. Identify and track potentially hazardous objects**
 - Maintain and improve surveying capabilities
 - Maintain and improve the process to identify imminent impactors
- 2. Characterize the properties of near-Earth objects to advance both our understanding of the threats posed to our planet and how Earth impacts may be prevented in the future**
 - Determine physical properties of the NEO population
 - Determine chemical/compositional properties of the NEO population
- 3. Develop and maintain rigorous models to assess the risk to Earth from wide-ranging potential impact conditions**
 - Better understand the impact effects and damage
 - Develop, maintain and exercise impact risk assessment tools



Current Planetary Defense Objectives - 2



4. Develop robust mitigation approaches to address potential impactor threats

- Ensure potential threats are identified and addressed early
- Develop and demonstrate planetary defense approaches and missions
- Develop a rapid response capability for in-situ characterization and mitigation

5. Continue to develop coordination and civil defense strategies and procedures to enable emergency response and recovery actions

- Support the Planetary Defense Coordination Office
- Continue to develop interagency cooperation and coordination
- Continue to develop international cooperation efforts