



Decadal Surveys

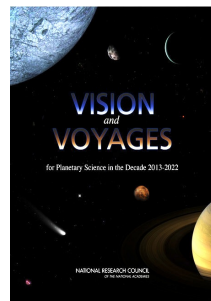
The National Academy of Sciences' decadal surveys are scientific community-based and recommend **ranked, consensus scientific priorities** for the coming decade.

The decadal surveys' overriding priority has been a **balanced program...**

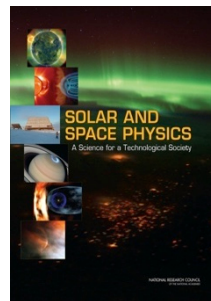
- across discipline and mission size
 - between competed and strategic programs
 - between facilities and grants
- ...to **optimize return on taxpayer investment.**



Astronomy and Astrophysics



Planetary Science

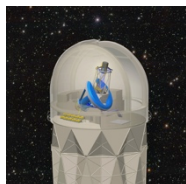


Solar and Space Physics

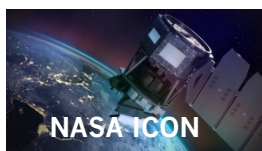
Missions and Facilities

Small and Mid-Scale

Competed | Focused Science | Investigator-Led



DOE/NSF DESI



Strategic

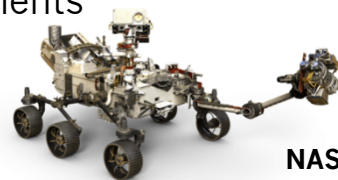
Directed | Broad Science | Community Instruments



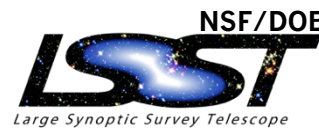
NASA



NSF DKIST



NASA Mars2020 Rover

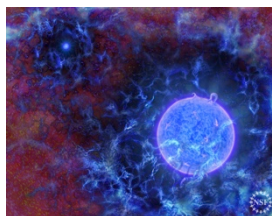


NSF/DOE Large Synoptic Survey Telescope

Competed Grants

Awards are based on the **scientific merit** and **breadth of impact** of proposed research.

NASA, NSF, and DOE fund **students and researchers in all fifty states** across the **academic, industry, government, and nonprofit sectors.**



NSF-funded researchers detected the Universe's first stars, shown here in an artist's rendering, for the first time in 2018.

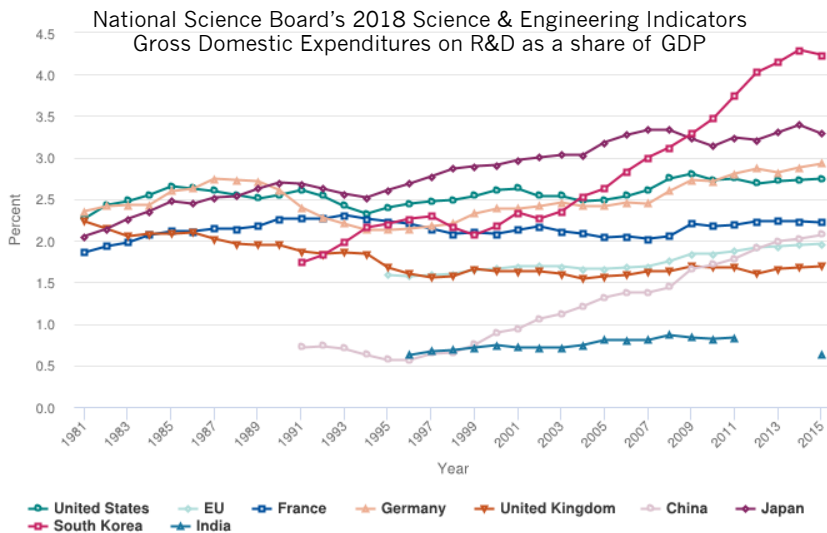




Robust Investments Needed for Scientific Research

Curiosity-driven research is vital to innovation and economic growth in the U.S. Other countries have increased their relative investment in Research and Development (R&D) activities, while the U.S. has remained relatively flat, maintaining a 2.7% R&D expenditure relative to GDP.

To ensure that the U.S. remains a global leader in innovation, **we ask that Congress fund sustained, robust growth for the science agencies**, including the NASA Science Mission Directorate (SMD), NSF, and the DOE Office of Science (SC).



2019 Appropriations Request

The FY19 funding we are requesting will allow NASA, NSF, and DOE to support a **balanced, coordinated, and world-leading astronomical sciences program** that advances **top community priorities**.

Account	FY18 Omnibus	FY19 President's Request	FY19 Ask
NASA	\$20.7	\$19.9	\$21.7
SMD	\$5.76	\$5.72	\$6.7
Astrophysics	\$1.38	\$1.18	\$1.46
Heliophysics	\$0.69	\$0.69	\$0.72
Planetary	\$2.23	\$2.23	\$2.34
NSF	\$7.77	\$7.47	\$8.45
DOE-SC	\$6.26	\$5.39	\$6.6

All values are given in billions of USD.

In FY19, the AAS

- **Strongly opposes** administration's proposed **cut to astrophysics** and cancellation of the top astrophysics decadal priority: **WFIRST**
- Supports an appropriation that enables an FY22 launch of **Europa Clipper**
- Supports full funding for the Heliophysics **DRIVE** Initiative
- Seeks **historical increase to NSF overall** to jumpstart the U.S. scientific enterprise and long-term economic security
- Requests increased investment for mid-scale instrumentation at NSF

