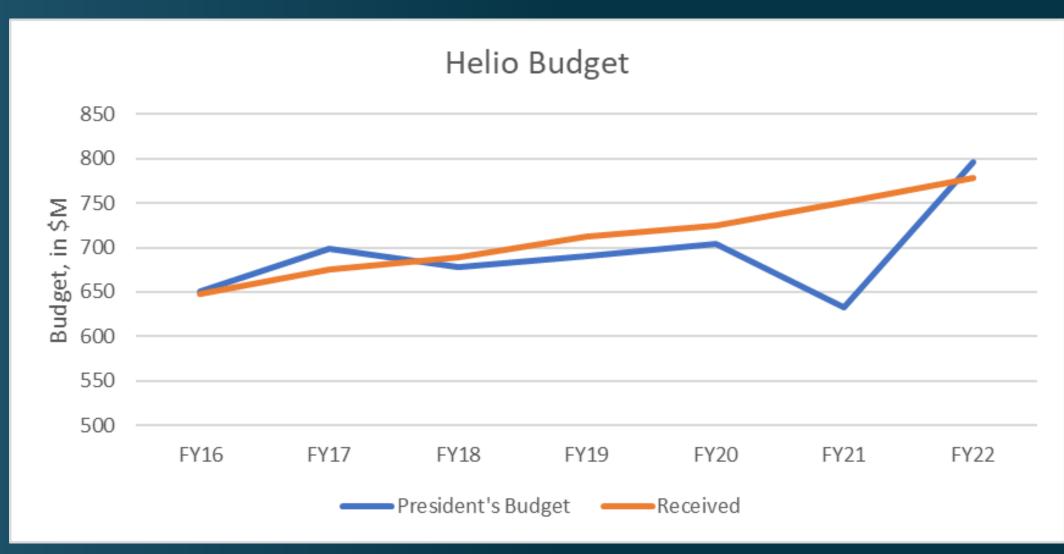


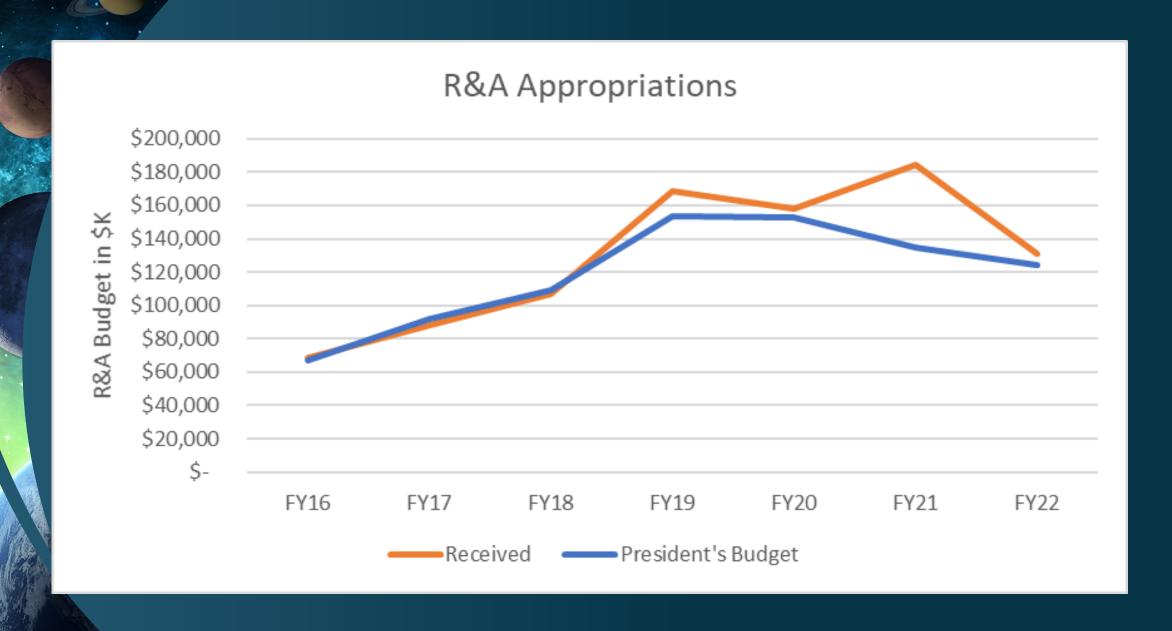
Research and Analysis Update

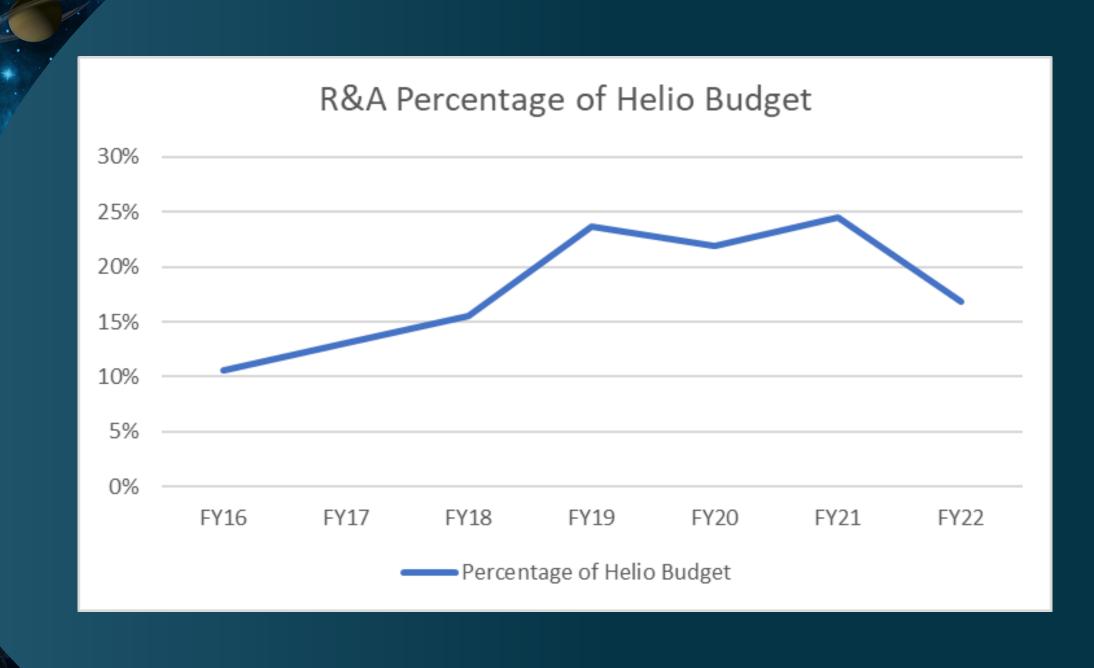
Overall

- Maintaining healthy R&A Program
- Maintaining DRIVE initiative 3 DRIVE Centers selected
- Establishing ECIP cadence every 2 years
- Expanding efforts to increase diversity in research
 - Dual Anonymous Peer Review (DAPR) expanding to HSR-23
 - Space Weather Center of Excellence (SWxC) solicitation includes opportunity to focus on culture of diversity and inclusion
- Cross-Divisional programs:
 - F.3 Exoplanets (2 selections in 2021; 3 selections in 2022)
- AI/ML strong emphasis in H-TMS and H-ARD programs in ROSES 2022
 - B.16 Heliophysics Artificial Intelligence/Machine Learning-Ready Data
- New ROSES elements responding to Open Data and Open Science initiatives
- Eclipse 2024 element in ROSES 2022
 - B.17 Interdisciplinary Science for Eclipse

Total HPD Budget







Funding Profile for Selected Groups

	FY16	FY17	FY18		FY19		FY20		FY21		FY22	
Open Research	\$ 29,356,091	\$ 29,991,030	\$	42,165,062	\$	51,278,617	\$	49,283,554	\$	43,247,646	\$	28,124,751
Targeted Research	\$ 18,441,000	\$ 18,027,030	\$	38,391,587	\$	31,770,449	\$	20,284,237	\$	34,568,423	\$	26,359,072
Flight Tech	\$ 21,019,875	\$ 23,920,853	\$	34,781,950	\$	52,487,099	\$	38,870,222	\$	46,985,806	\$	24,104,529
	FY16	FY17	FY18			FY19	FY20		FY21		FY22	
Open Research	43%	42%	37%		38%		45%		35%		36%	
Targeted Research	27%	25%		33%		23%		19%		28%		34%
Flight Tech	31%	33%	30%		39%		36%			38%		31%

Open Research programs: HTMS, HSR, HGIO, HECIP Targeted Research programs: LWS-SC, LWS-Science, SWSA-O2R2O Flight Tech: HTIDS, LCAS, HFOS, HFORT, HDEE, H-USPI, HMCS

Selections and Submissions for Selected Groups

		FY16	FY17	' F\	Y18	FY19	FY20	FY21
Open Research	Submitted	4	-07	334	310	304	291	187
	Selected	1	.07	76	70	74	86	49
Targeted Research	Submitted		64	117	116	113	94	93
	Selected		21	29	35	41	36	29
Flight Tech	Submitted		71	88	74	57	69	106
	Selected		16	34	28	26	31	36
		5)/4.6	-> / 4 -					

		FY16	FY17	FY18	FY19	FY20	FY21
Open Research	Selected	26%	23%	239	% 24	% 30%	26%
Targeted Research	Selected	33%	25%	309	% 36	% 38%	31%
Flight Tech	Selected	23%	39%	389	% 46	% 45%	34%

Backup



- HLCAS: Low Cost Access to Space
- HFOS: Flight Opportunity Studies
- HFORT: Flight Opportunities for Research and Technology
- HTIDS: Technology and Instrument Development for Science
- HGIO: Guest Investigator
- HSR: Supporting Research
- HTMS: Theory, Modeling and Simulation
- Early Career Investigator Program (ECIP) & FINESST
- Living With a Star (LWS) Science
- Space Weather R2O2R and Science Centers
- Data Environment Enhancement/Tools and Methods
- HITS: Heliophysics Innovation in Technology and Science
- Eclipse 2024
- Citizen Science