

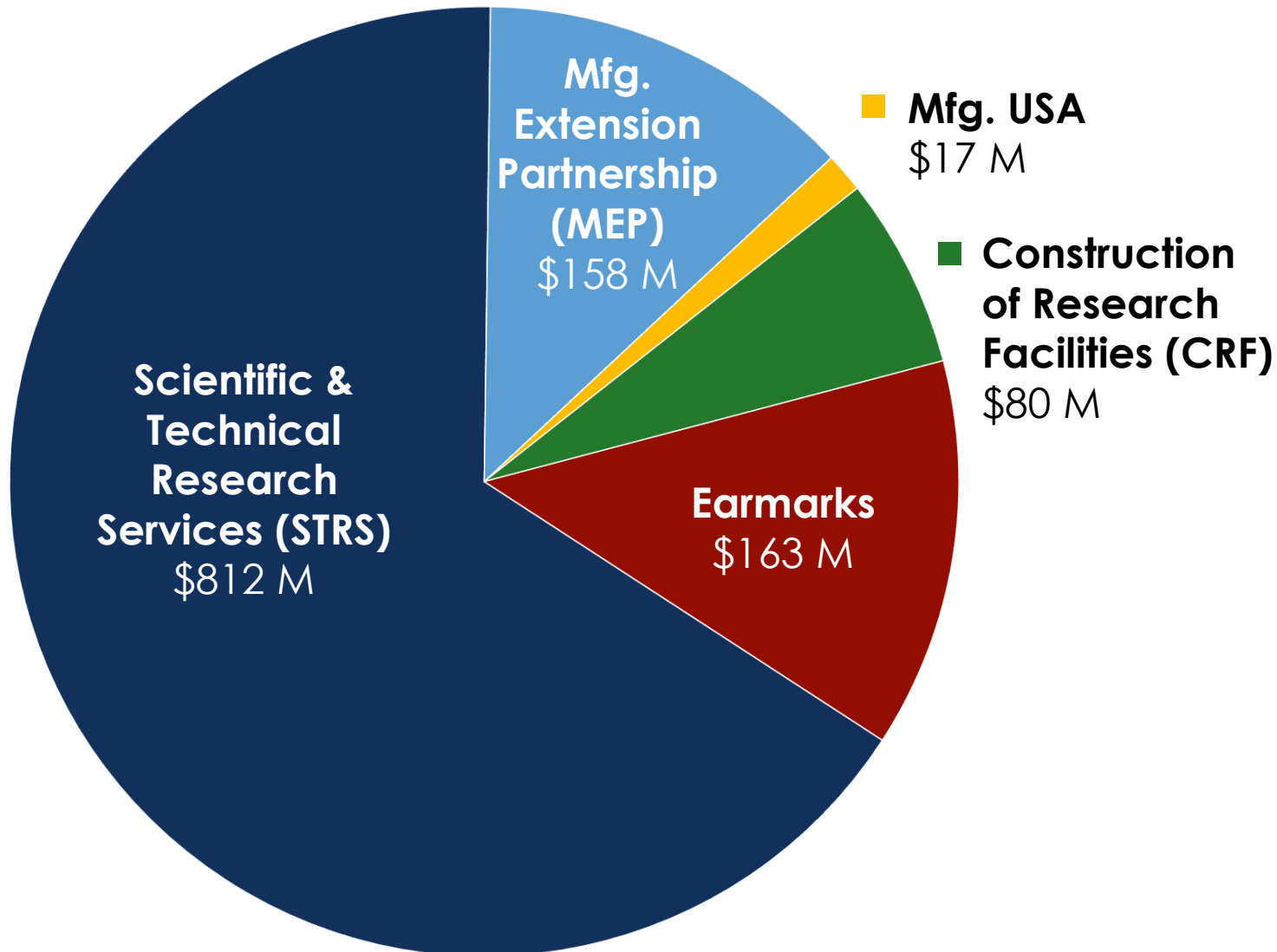
NIST Budget Overview

Visiting Committee on Advanced Technology

Dr. Jason Boehm
Director, NIST Program Coordination Office

Fiscal Years 2022 and 2023

FY 2022 Enacted Budget Overview



\$1.23 B total

Earmarks* for first time in 10 years

Budget essentially flat from FY 21

*\$163 M in earmarks include:

- \$37.6 M in STRS External Projects
- \$125.6 M in Extramural Construction

FY 2021-2023 Budgets at a Glance



FY 22 vs. FY 21

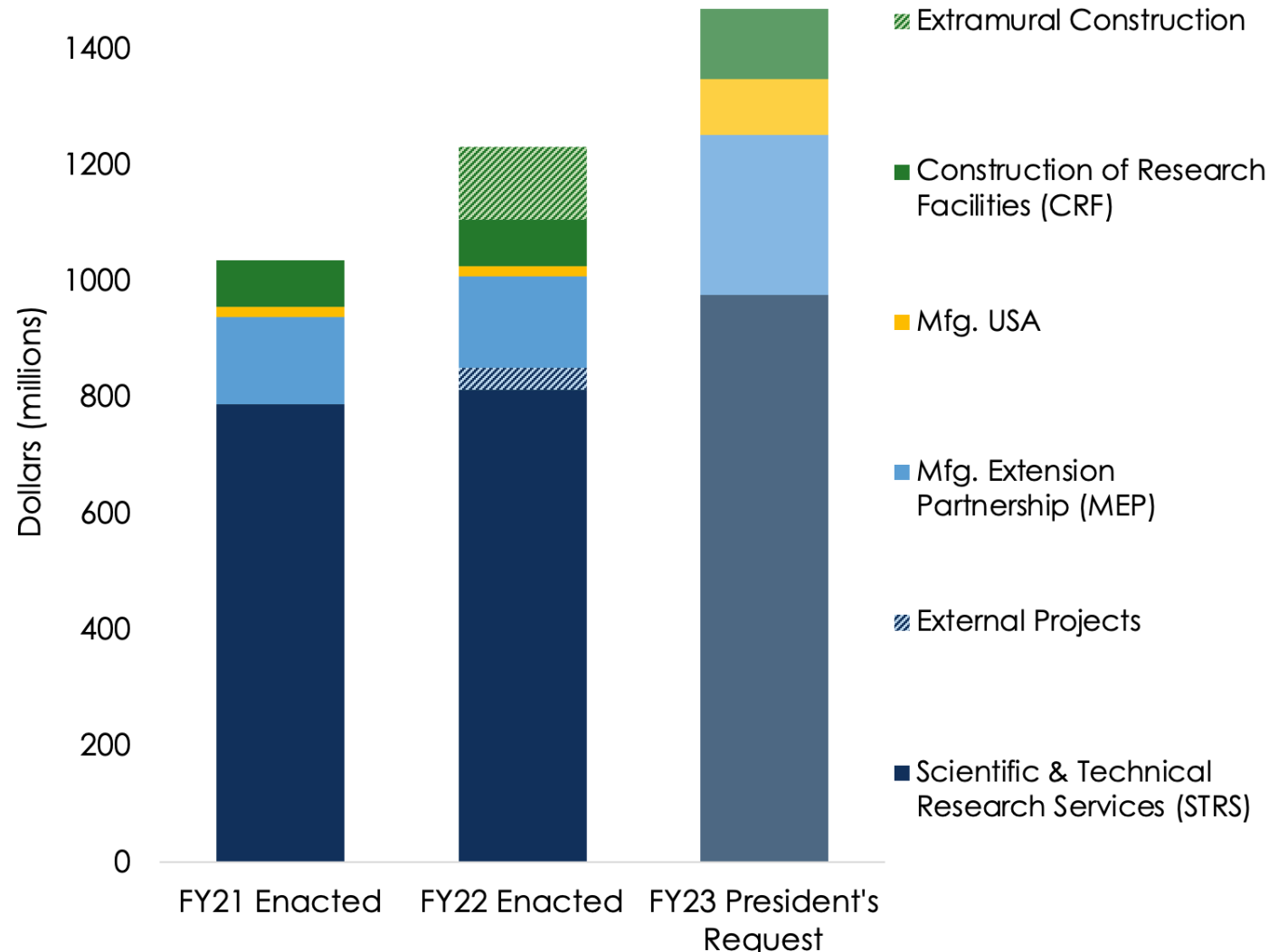
FY 22 is **+\$195.6 M** over FY 21. With **\$163.2 M** in earmarks, this increase is effectively **+\$32.4 M**.

FY 23 Request vs. FY 22*

FY 23 request is **+\$400.7 M** over FY 22 enacted* levels.

- STRS **+\$162.6 M**,
- MEP **+\$117.3 M**,
- CRF **+\$40.3 M**, and
- Mfg. USA growth **by a factor of nearly 6**.

*Earmarks not included in FY 22 values for the purposes of comparison to the FY 23 request.



FY22 STRS External Projects: \$37.6 M



Recipient	Project	\$
CNY Defense Alliance	Smart Technology Lab Initiative	200 K
Colorado State Univ.	Soil CCS Research Project	1 M
Emporia State Univ.	Cyber Security Center	1.5 M
Mississippi State Univ.	Training and Standards for UAS Certification	4 M
Pittsburg State Univ.	Polymer and Plastics Research at National Institute for Materials Advancement	3 M
Plymouth State Univ.	Technology and Equipment upgrades	1 M
Rensselaer Polytechnic Institute	NMR Facility Enhancement	984 K
Roux Institute at Northeastern Univ.	Advanced and Additive Manufacturing Center Development	1 M
The Univ. of Mississippi	Core Testing Facility for Graphene and Graphene Like Materials	2 M
Univ. of Buffalo	High-performance Computing Drug Discovery Initiative	1 M
Univ. of Charleston (WV)	Advanced Biomedical Instrumentation and Research Training	385 K
Univ. of Colorado	JILA Lab Equipment	950 K
Univ. of Delaware	Biopharmaceutical Manufacturing Innovation Equipment	3 M
Univ. of Kansas Medical Center	Research Equipment Upgrades	5 M
Univ. of New Mexico	UNM Decedent Image Database	374 K
Univ. of Rhode Island	Blue Technology Research Initiative	1.5 M
Univ. of Southern Mississippi	Establishment of a joint Industry Academic Laboratory to provide Calibration Services	5 M
Univ. of Southern Mississippi	Graphene Product Validation Lab	2 M
West Virginia Univ.	Procurement of Technology to respond to opioid and violence epidemics in WV	705 K
Wichita State Univ.	Additive Manufacturing Technologies Research and Standardization	3 M

FY22 CRF Extramural Constr.: \$125.6 M



Recipient	Project	Amount (\$)
Burlington Technical Center	Burlington Aviation Technology Center Facility	10 M
Fort Hays State University	Renovation of Forsyth Library	17 M
Kansas State University Salina Aerospace and Technology Campus	Acquisition and Renovation of Aerospace Simulation Center	4.75 M
Missouri State University	Ozarks Health and Life Science Center	20 M
University of Maine	Green Engineering and Materials Research	10 M
University of New Hampshire	Jackson Estuarine Lab Expansion and Renovation	3.813 M
University of South Alabama College of Medicine	Renovation and Expansion of Research and Education Facilities	60 M

FY 2021-2023 Budget



	FY 2021 Enacted	FY 2021 ^{2/} ARP Act P.L. 117-2	FY 2022 Annualized CR	FY 2022 Enacted	FY 2022 ^{4/} Emergency Act P.L. 117-43	FY 2023 President's Request	+/- over FY 2022 Enacted
STRS	\$788.0	\$0.0	\$788.0	\$850.0	22.0	\$975.0	\$125
Laboratory Programs	687.1	0.0	686.6	TBD	22.0	855.4	N/A
Corporate Services	17.5	0.0	17.5	TBD	0.0	18.5	N/A
Stds Coord. & Special Pgms. ^{1/}	83.4	0.0	83.9	TBD ^{3/}	0.0	101.1	N/A
ITS	\$166.5	\$150.0	\$166.5	\$174.5	\$0.0	\$372.3	\$197.8
Hollings MEP	150	0.0	150.0	158.0	0.0	275.3	117.3
Manufacturing USA	16.5	150.0	16.5	16.5	0.0	97.0	80.5
CRF	\$80.0	\$0.0	\$80.0	\$205.6	\$0.0	\$120.3	(\$85.3)
Constrc. & Major Renovations	6.1	0.0	6.1	0.0	0.0	0.0	
Saf, Cap, Maint & Maj. Repairs	73.9	0.0	73.9	80.0	0.0	120.3	40.3
Extramural Construc Projects				125.6 ^{3/}			(125.6)
Total, NIST Discretionary	1034.5	150.0	1034.5	1230.1	22.0	1467.6	237.5

1/ Includes Baldrige Performance Excellence Program funding for \$2.5M in FY2021, \$2.5M in FY2022, and \$2.7M in FY 2023.

2/ From supplemental funding of American Rescue Plan Act of 2021.

3/ Includes \$37.598M for STRS External Projects and \$125.563M for CRF's NIST Extramural Construction.

4/ From enacted \$22M to carry out investigations of Surfside building failures from Extending Government Funding and Delivering Emergency Assistance Act.

FY 2022 and 2023 Budget Initiatives



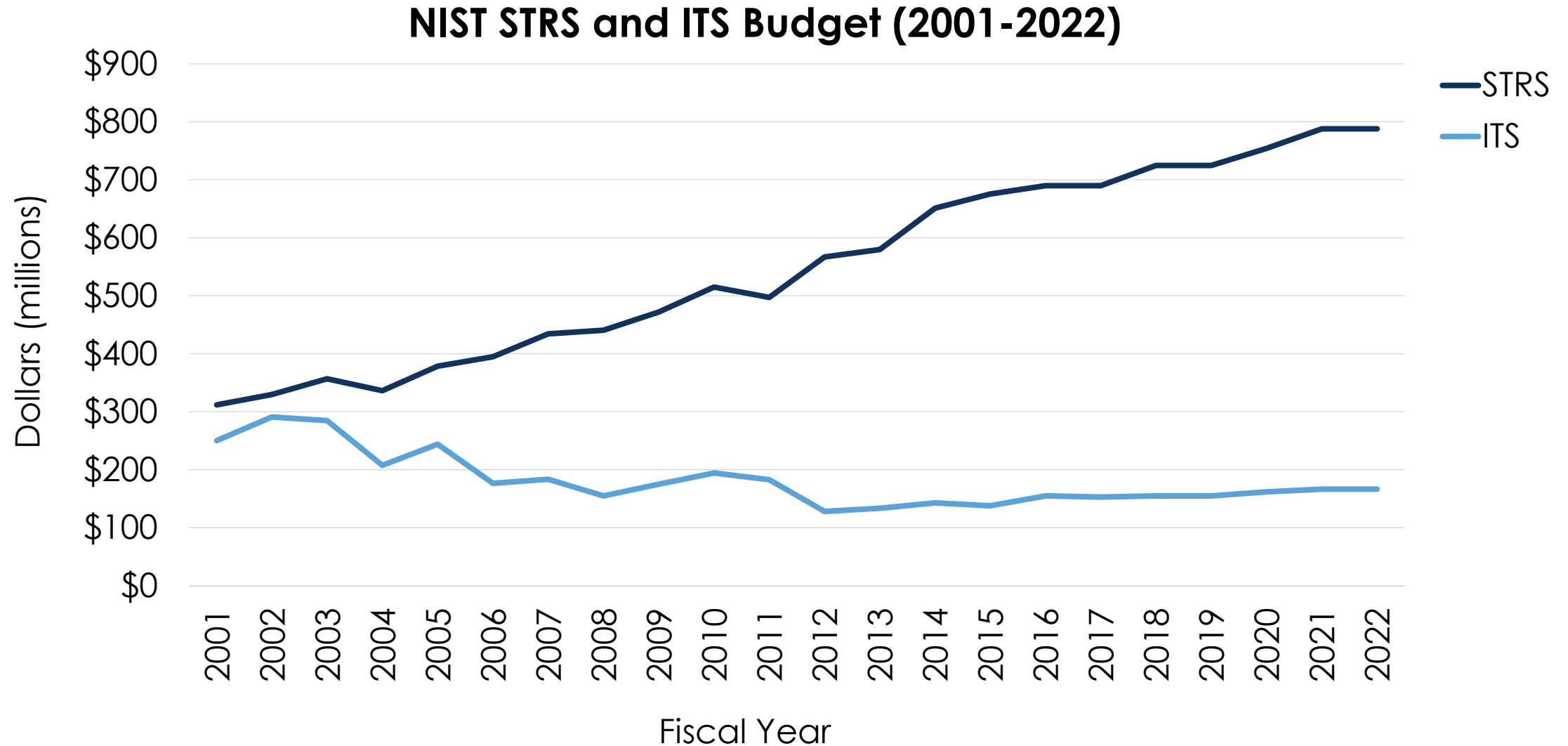
FY 2022 (Enacted)

FY 2023 (Request)

	FY 2022 (Enacted)	FY 2023 (Request)
STRS	Climate - \$1.5 M	Climate - \$20 M
	Cybersecurity - \$5.25 M	Cybersecurity - \$18 M
	Quantum Information Science - \$2.2 M	Quantum Information Science - \$15 M
	Artificial Intelligence - \$0.58 M	Artificial Intelligence - \$15 M
	Bioeconomy - \$2.552 M	Bioeconomy - \$14 M
	Wildfires and Wildland Urban Interface - \$1 M	Advanced Communications - \$12 M
	NCNR Restart - \$9 M	NCNR Controls and Corrective Actions - \$10 M
	PSCR - \$1.5 M	PSCR - \$10 M
	Public Health Risk to First Responders - \$1 M	Measurement Service Modernization - \$8 M
	Standards for Critical & Emerging Tech - \$0.6 M	Standards for Critical & Emerging Tech - \$8 M
	Circular Economy - \$1 M	Circular Economy - \$5 M
	NIST Diversity, Equity, and Inclusion - \$0.02 M	NIST Workforce Diversity and Equity - \$5.78 M
	Forensic Science - \$0.7 M	iEdison System - \$2 M
ITS	MEP - \$8 M	MEP - \$124.2 M
	Mfg. USA - \$0	Mfg. USA - \$80.3 M
CRF	CRF - \$0	CRF - \$36.8 M

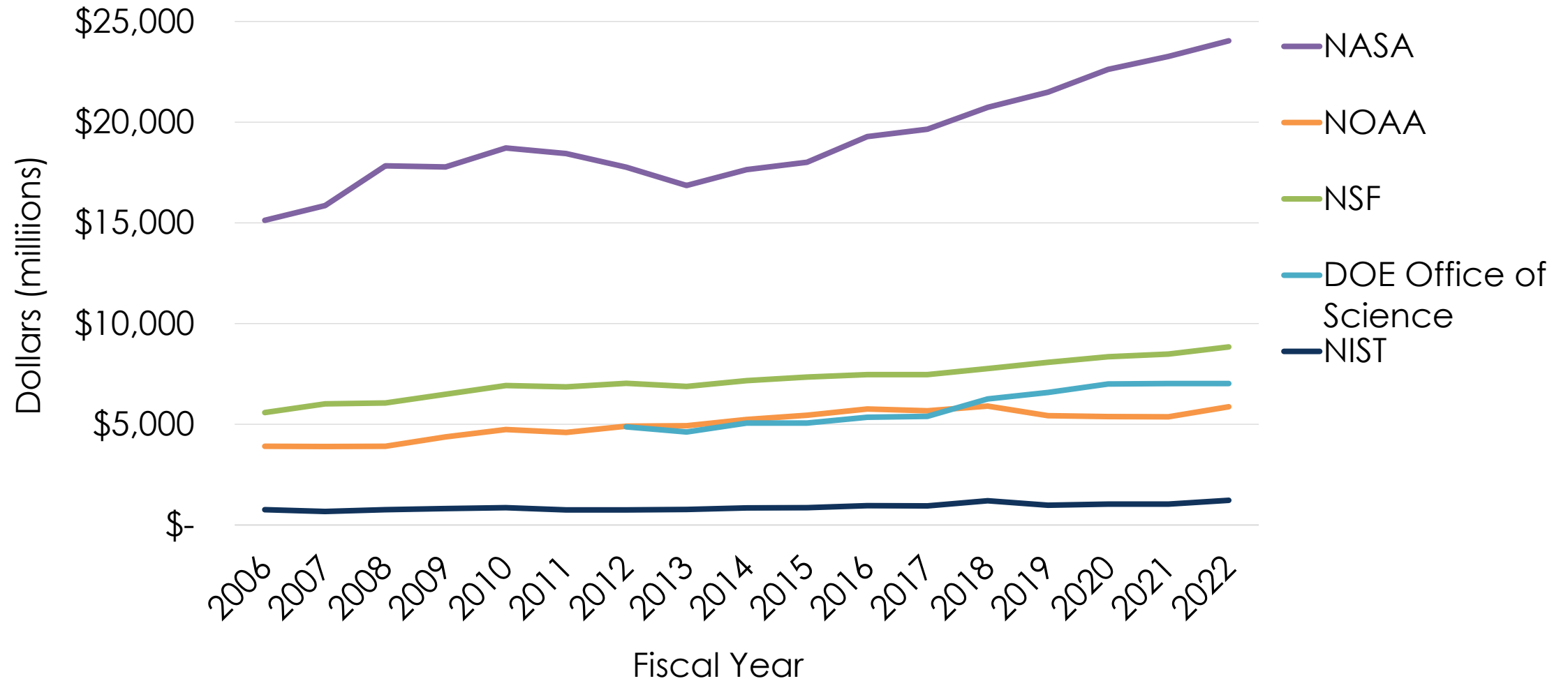
NIST Budget History and Comparison with Similar Agencies

NIST STRS and ITS Budget Trends



Comparison with Similar Agencies

Similar Agency Budgets (2006-2022)



Comparison with Similar Agencies



Annual Percentage Change in Appropriations Compared to Previous Year

Year / Agency	NASA	NOAA	NSF	DOE Office of Science	NIST
2007	4.87%	-0.41%	7.87%		-10.70%
2008	12.43%	0.31%	0.75%		11.67%
2009	-0.29%	11.94%	7.01%		8.36%
2010	5.30%	8.45%	6.72%		4.59%
2011	-1.47%	-3.19%	-0.97%		-12.43%
2012	-3.68%	6.80%	2.54%		0.10%
2013	-5.09%	0.60%	-2.12%	-5.18%	2.46%
2014	4.64%	6.31%	4.18%	9.64%	10.49%
2015	2.06%	3.88%	2.40%	0.03%	1.64%
2016	7.08%	5.82%	1.62%	5.51%	11.59%
2017	1.91%	-1.58%	0.11%	0.82%	-1.24%
2018	5.51%	4.12%	3.95%	16.12%	25.89%
2019	3.68%	-8.19%	3.97%	5.19%	-17.77%
2020	5.25%	-0.76%	3.46%	6.30%	4.92%
2021	2.84%	-0.20%	1.58%	0.37%	0.10%
2022	3.30%	9.38%	4.15%	0.00%	18.84%

Colors range from red to green, where **red is the lowest comparative increase** each year and **green is the higher comparative increase** each year.

Comparison with Similar Agencies

