

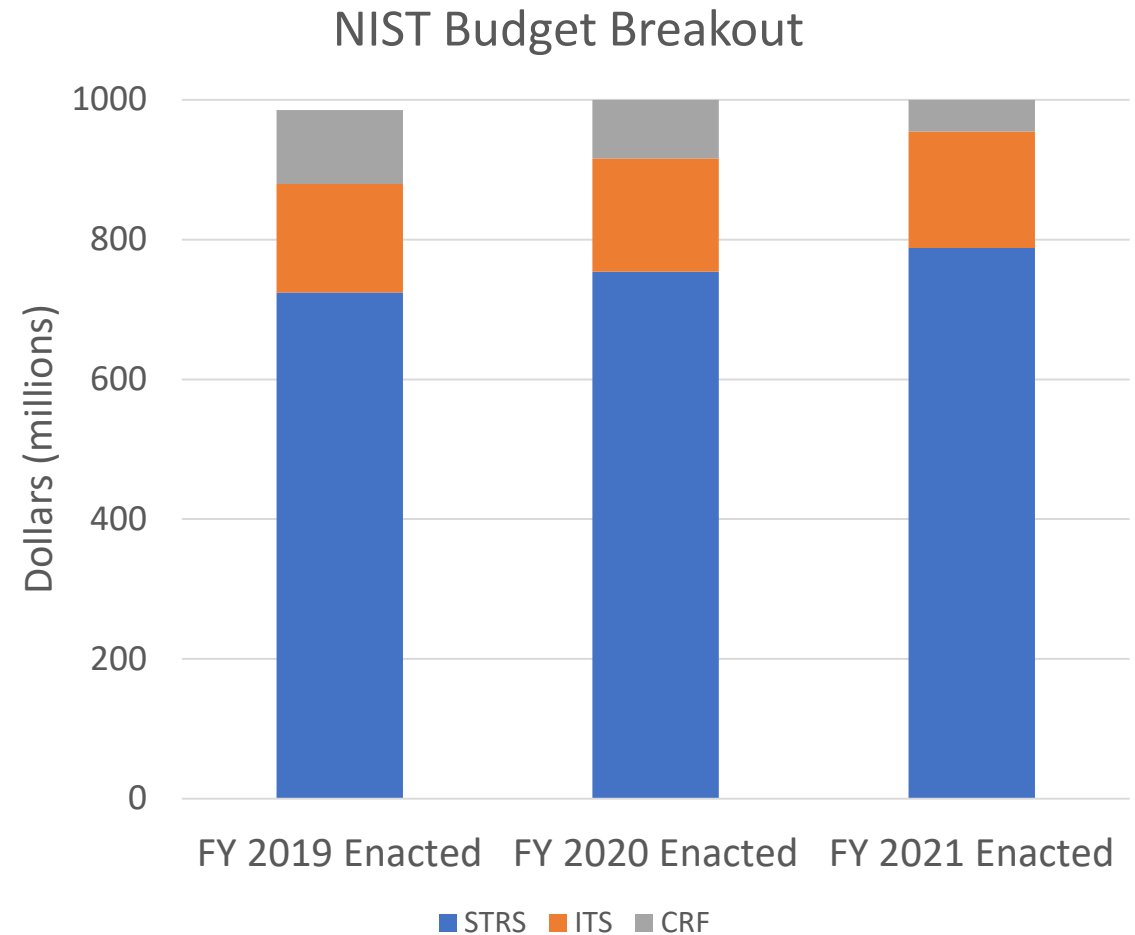
National Institute of Standards and Technology
FY 2021 Budget Review
NIST VCAT
February 3, 2021

NIST FY 2021 Budget Summary (\$1.034.5 B)



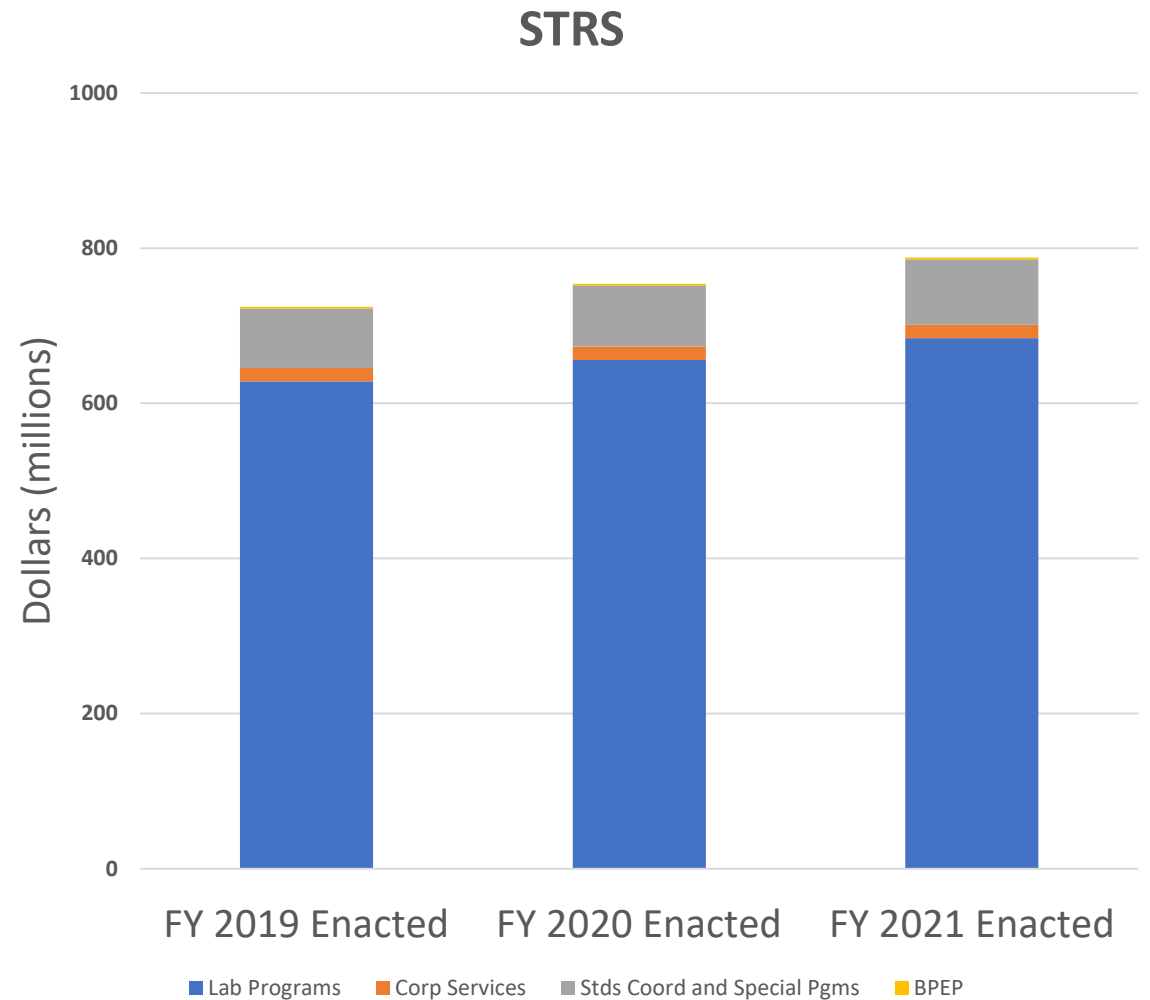
The President's FY 2021 Budget:

- Overall flat budget compared with FY2020 (+0.5M over FY2020)
- Provides inflationary and some targeted programmatic increases to Lab programs (+\$34M over FY2020)
- Limited increases for MEP and Manufacturing USA (+\$4.5M over FY2020)
- Reduction to CRF budget (-\$38.8M from FY2020)



STRS: \$788.0 M (+\$34.0 M)

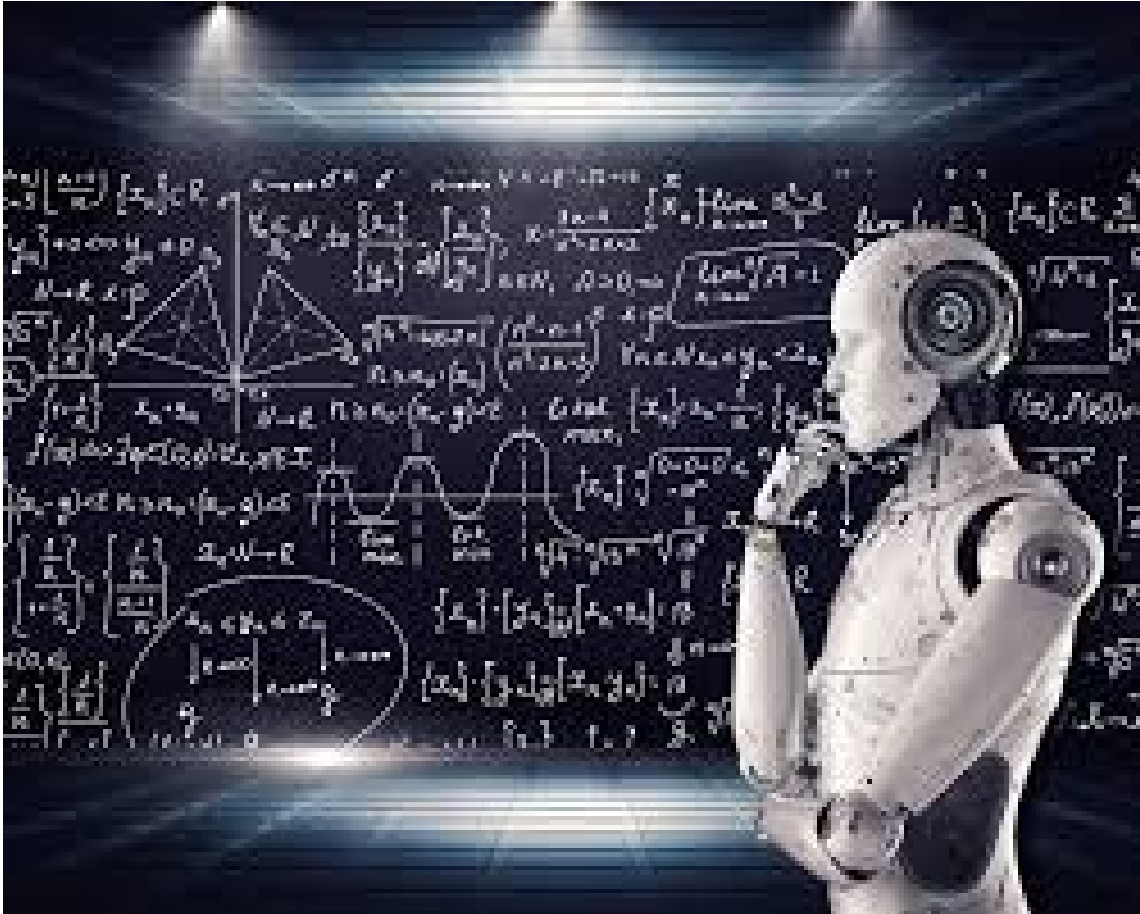
- Provides several targeted increases to NIST Laboratory Programs, including increased funding for QIS, and AI work.
- Provides \$16.35M of inflationary adjustments to base.



FY2021 STRS Program Increases

Programmatic Area	\$ Increase over FY2020
Quantum Information Science	\$6.5 M
Artificial Intelligence	\$6.5 M
Direct Air Capture and Carbon Dioxide Removal	\$3.0 M
NCCOE Cybersecurity of Genomic Data	\$1.25 M
Forensic Sciences	\$1.0 M
UAV Challenges and Credentialing	\$0.750 M
Pyrrhotite in Concrete Aggregate	\$0.50 M
Plastics and Polymeric Grants	\$0.250 M
Greenhouse Gas and Urban Dome Initiative	\$0.20 M
Baldrige Performance Excellence Program	\$0.30M

Artificial Intelligence (+\$6.5 M)



Credit: mikemacmarketing Creative Commons



Increased funding for data characterization and data standards research in support of trustworthy AI



Funding to support the development of a Framework for Trustworthy AI as called for in the NDAA



Funding to support increased engagement in international standards development activities relevant to AI.

Quantum Information Science (\$6.5 M)



Strontium Optical Lattice Atomic Clock

Credit: JILA



Expands NIST research in the area of quantum networking



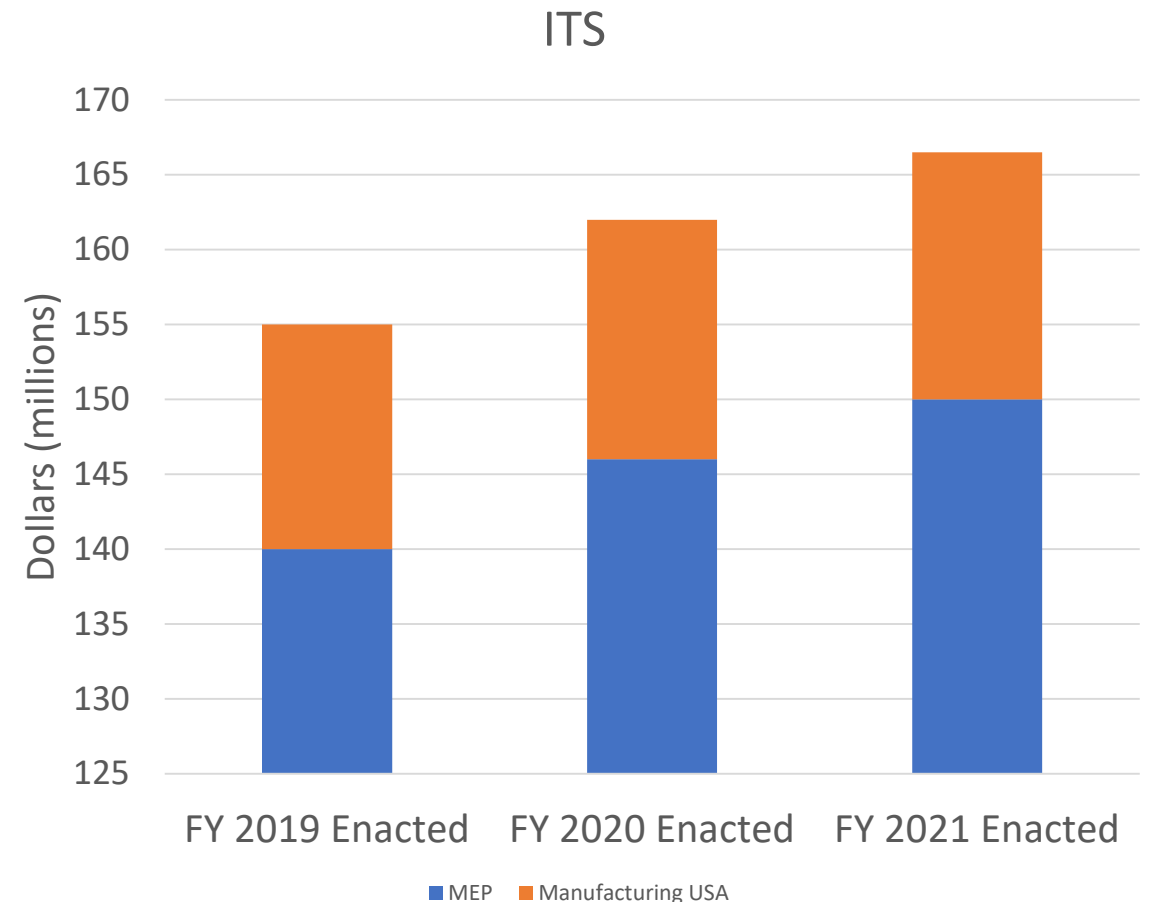
Expands projects at JILA and JQI and provides additional funding to support increased standards engagement



Focus on the long-term evolution of quantum technologies and the ability to securely and efficiently transmit quantum information

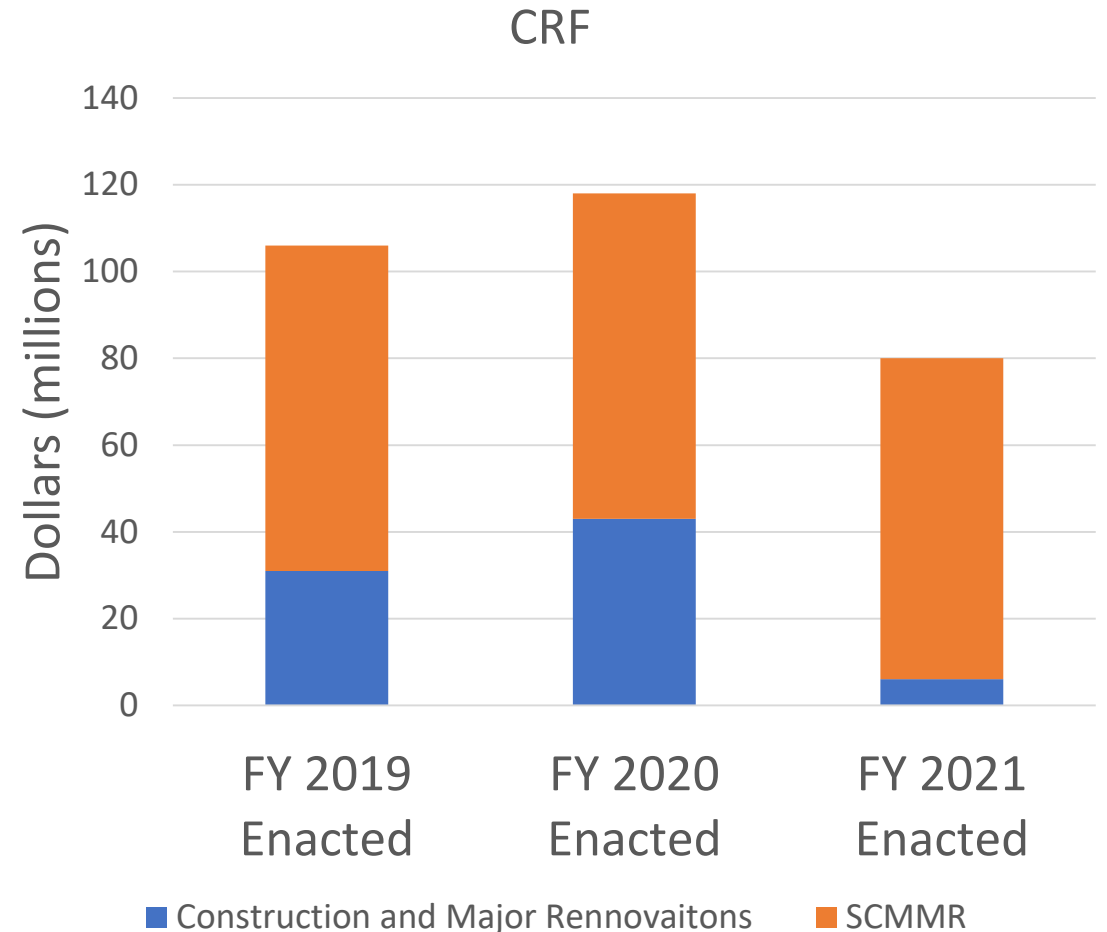
ITS: \$166.5 M (+\$4.5 M)

- The FY 2021 Budget provides:
 - \$150M for the MEP Program, a \$4M increase over FY2020 levels.
 - \$16.5M for the Manufacturing USA program a \$0.5M increase over FY2020
 - Up to \$5M can be used to support network coordination activities including up to \$1M to support FDA engagement with institutes
 - \$10M to continue funding support for NIIMBL
 - \$1M for a competitive grant program to develop technology roadmaps for promising advanced manufacturing clusters.



CRF \$80.0 M (-\$38.0 M)

- Bill directs NIST to contract with an independent entity to develop a facilities report that will identify facilities in greatest need of repair, describe the work to bring them up to current standards, and include cost estimates for each project.
- With provided funding NIST will
 - \$5M to develop a program of requirements for building 222 modernization
 - \$0.7M to develop a program of requirements for Gates A&F modernization
 - \$73.9M on SCMMR to address most pressing needs
 - Utility Infrastructure
 - Life safety and roofing projects
 - IT infrastructure



FY2022

- Waiting for pass back and new priorities from OMB.

Supplemental Appropriations

- Current COVID Relief Bill could included additional funding for NIST – continuing to monitor the situation and work with the Department and Congressional Staff
- Additional Stimulus ? TBD