

2022-2026

NSF STRATEGIC PLAN

National Science Board, February 2021

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NSF Strategic Investment Arcs

5 to 10 year cycles

Late 1990s to early 2000s

Late 2000s to mid 2010s

Mid 2010s to mid 2020s

The Future

Era of Priority Areas and Digital-X: ITR, Biocomplexity in the Environment, Human and Social Dynamics, Nanoscale S&E, Mathematical Sciences, Digital Libraries, Digital Government, Digital Society Cyberinfrastructure

Era of American Competitiveness & Cyber-X: Cyber-Enabled Discovery and Innovation, Cybersecurity, Cyberinfrastructure Framework for the 21st century, Cyber-Enabled Materials, Manufacturing and Smart Systems, Nano, SEES, NRI, Advanced Mfg., Big Data, Computational Science, Radio Spectrum

Era of Big Ideas & the Future: Quantum Leap, HDR, NNA, Windows on the Universe, URoL, Future of Work, Convergence, Mid-scale, NSF 2026, NSF INCLUDES

Era of IoT & Innovation: AI, Quantum, Bio-Tech, Advanced Mfg., Advanced Wireless, Translation, Innovation and Partnerships

NSF Strategic Plans 1997-2026

1997-2003

2003-2008

2006-2011

2011-2016

2014-2018

2018-2022

2022-2026

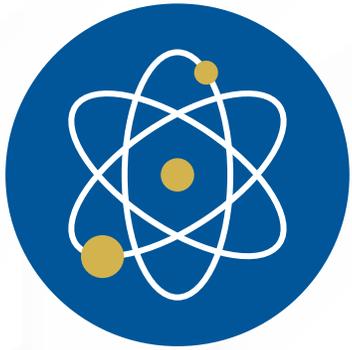
2022-2026

NSF STRATEGIC PLAN

Outline

1. Context
2. Structure
3. Progress





Context, Challenges, Opportunities



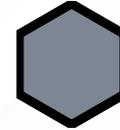
Case for urgency



Strengthening at speed and scale



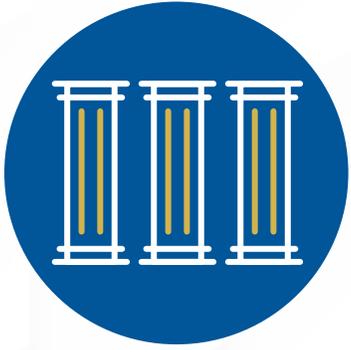
Translation, innovation, and partnerships



NSB VISION 2030

- Deliver benefits from research
- Develop STEM talent for America
- Expand geography of innovation
- Foster global S&E community





Context, Challenges, Opportunities



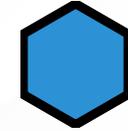
Case for urgency



Strengthening at speed and scale



Translation, innovation, and partnerships



NSF VISION

Advance the frontiers of research

Ensure accessibility and inclusivity

Secure global leadership





Context, Challenges, Opportunities



Case for urgency



Strengthening at speed and scale



Translation, innovation, and partnerships



NATIONAL PRIORITIES Administration Pillars

Pandemic response

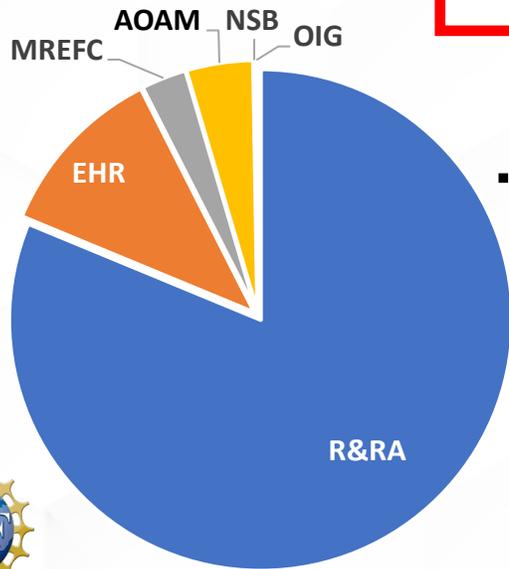
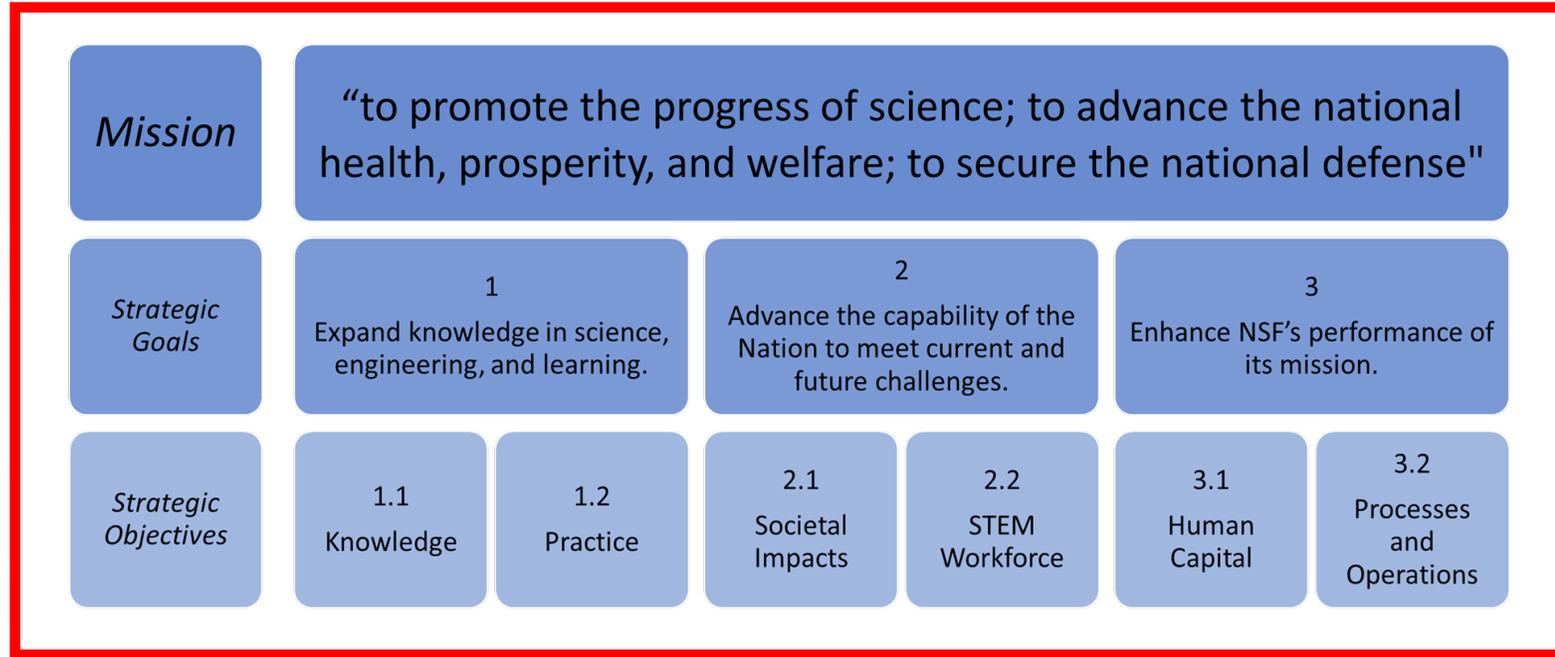
Economic recovery

Racial equity

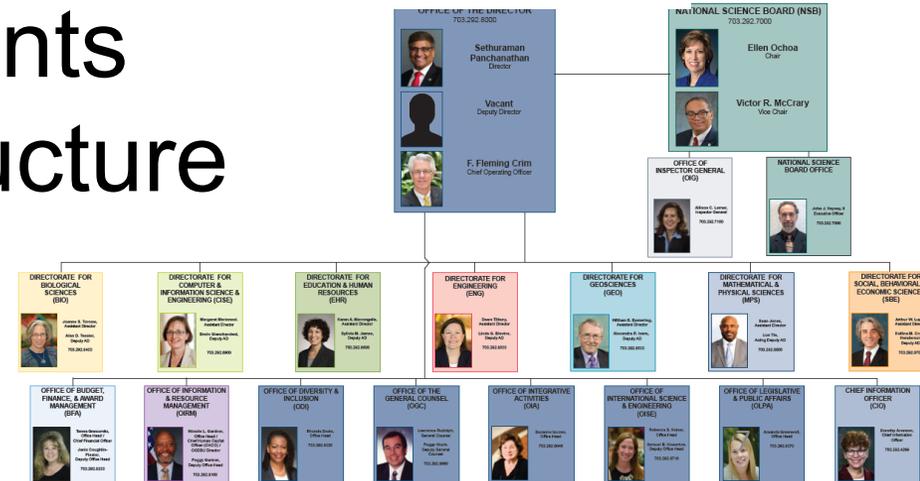
Climate change



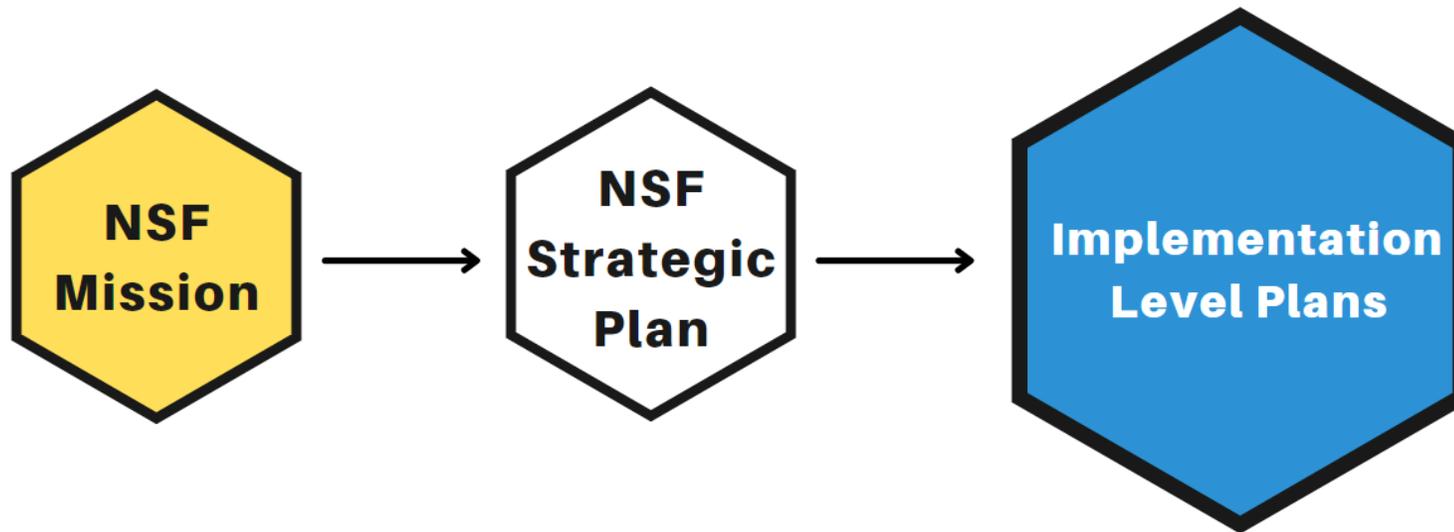
NSF's strategic plan - maps to our mission...



...not our budget accounts
...or org structure



Mission, Strategic Plan, Implementation



- NSF Budget
- Agency Priority Goals
- Annual Performance Plan
- Human Capital Operating Plan
- Solicitation Management Plans
- Individual Performance Plans

A changing context

NSF Strategic Plan for Fiscal Years 2022-2026

VISION:

MISSION
To promote the progress of science, to advance the national health, prosperity, and welfare; and to secure the national defense

GOALS

Lessons from the pandemic

Economic competitiveness

Equity and inclusion

OBJECTIVES

Changing landscape of research

Global environmental challenges

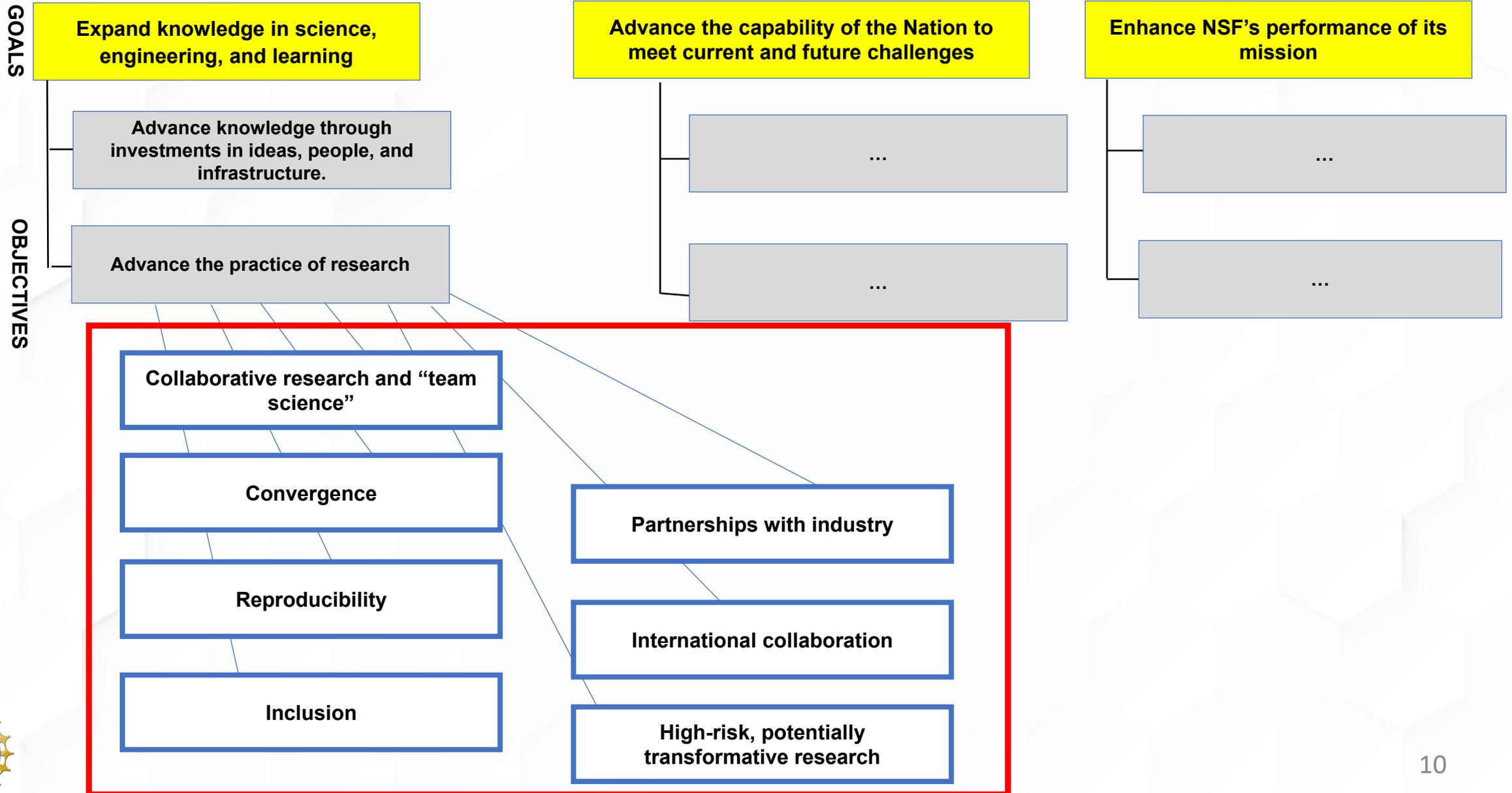
Resilience and preparedness

Interconnectivity

Interconnectivity

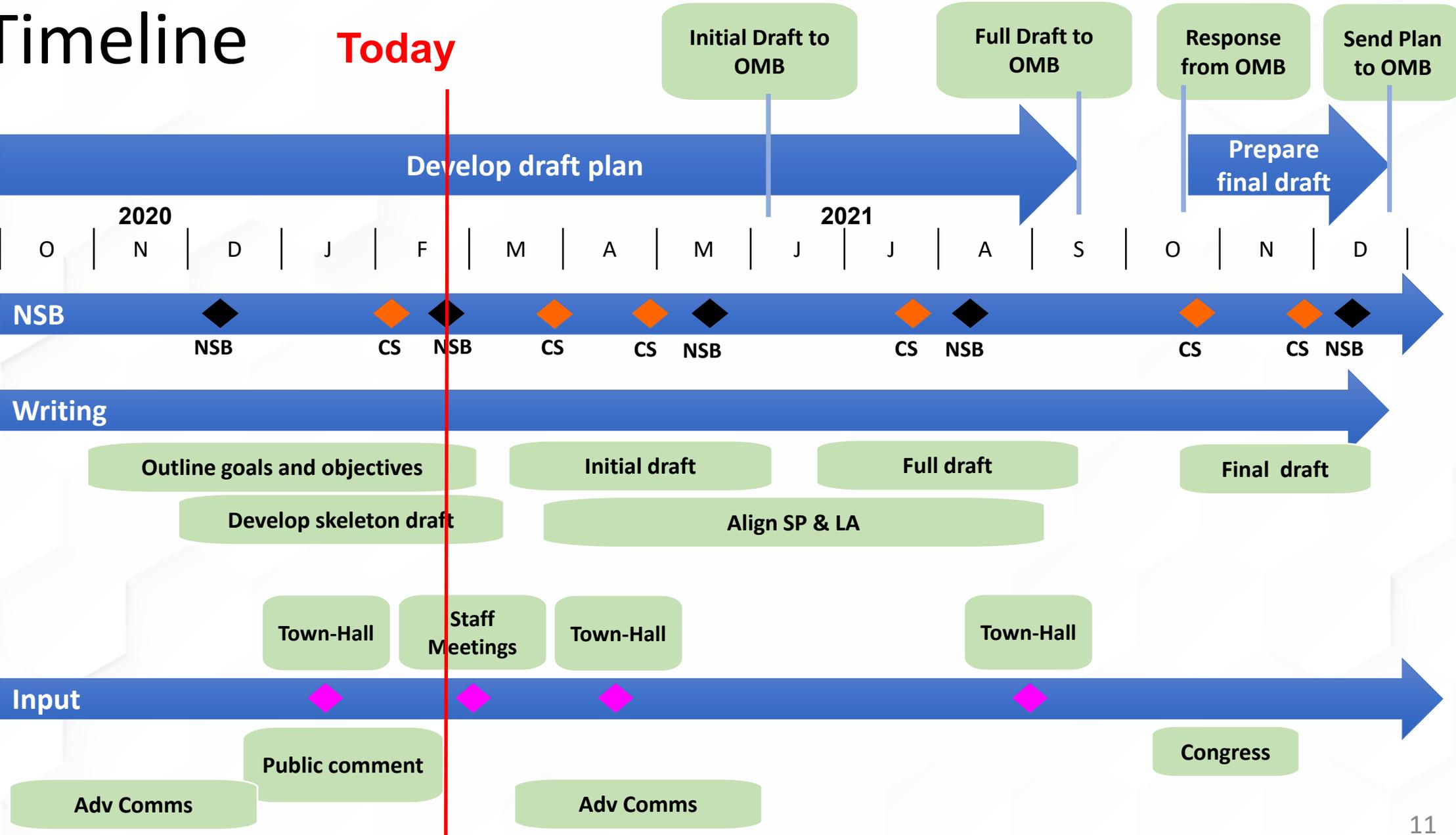


NSF Strategic Plan for Fiscal Years 2018-2022



Timeline

Today



Next Steps

2021

Jan

- Gather input on Vision, Goals, Objectives and Core Values

Feb

- Discussion with NSB/CS
- Update at Feb 2021 NSB meeting

Mar

- March – April: Prepare initial OMB submission
- Share skeleton draft with NSB/CS

Apr

- Share initial OMB submission with NSB/CS

May

- Brief NSB

June

- Submit initial OMB submission



FY 2022 – FY 2026

