

# NSB Enterprise Risk Management (ERM) Update



Introduction

# DATA ANALYTICS & ASSURANCE PROGRAM

# **Purpose:**

- To inform the NSB on NSF's approach to ERM.
- Obtain NSB input on ERM.

# **Outcomes:**

- Shared understanding of ERM progress and next steps at NSF.
- Alignment of NSB oversight role and NSF's approach to ERM.

# **NSB ERM Update ERM Background**







ERM <u>is not</u> intended to be a check the box compliance exercise

Streamline Increase effectiveness Transparency Avoiding bias Coordinating risk responses

#### **Active Board Role in ERM is Best Practice #1**



Boards play an important role in enterprise risk management. "Boards are experienced, skilled, highly talented, and can offer an appropriate degree of industry, business, and technical input while performing oversight responsibilities."

According to ERM Best Practice Standard Setter, the Committee of Sponsoring Organizations of the Treadway Commission

# **Progress to Date and Next Steps**







OMB policy and guidance



Strengthening roles and responsibilities and breaking down silos



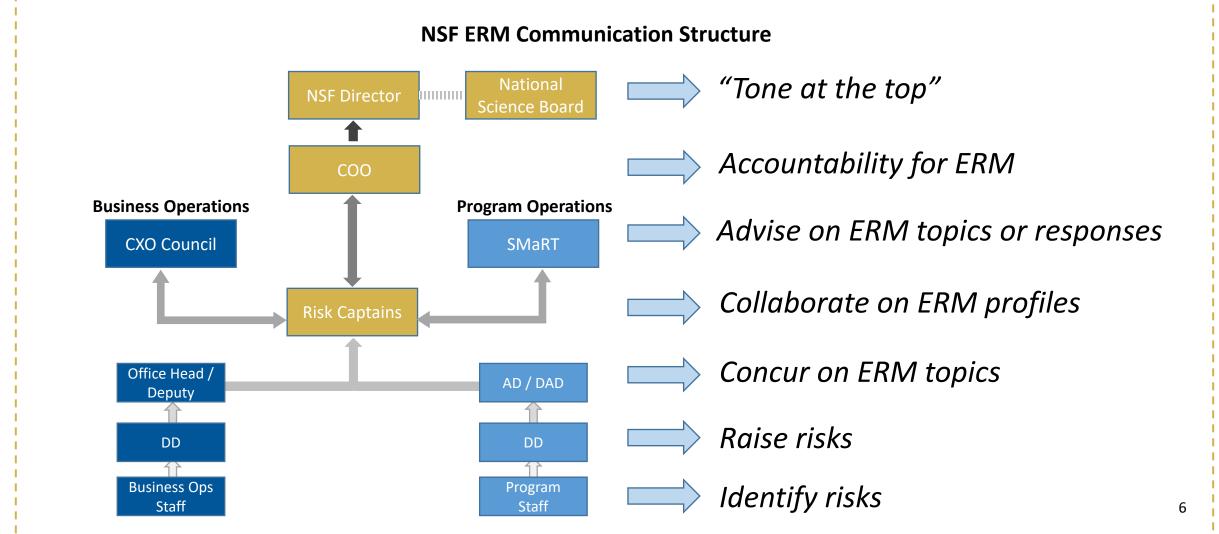
Predicting, preparing, creating value and seizing opportunities





# **Developing ERM Communication Structure**





#### **Illustrative Example of Risk Posture**





May 18, 2020

Dear NSF family:

As we continue to operate under extraordinary circumstances, I wanted to thank you all again for the hard work that you're doing and highlight how important NSF is to the nation's COVID-19 response efforts.

In particular, I want to recognize three groups of you who have been tireless in your efforts to make sure this agency maintains its ability to operate and keeps providing support to the researchers who require it.

This crisis has resulted in an unprecedented volume of RAPID proposals and awards. As of today, NSF has funded more than 400 RAPID awards, and we expect the high volume of proposals to continue – and that is a testament to so many of you who are receiving RAPID proposals, making decisions, and processing awards. Awarded projects have ranged from modeling the spread of COVID-19 to developing innovative new materials that can be integrated into medical masks. Members of the research community have spoken. They require support for projects that can ease this pandemic, help us recover and apply what we're learning to deal with the next emergency. Through RAPIDs, NSF has answered that call with the most diverse group of awards ever issued.

I want to especially commend the NSF COVID-19 Program Director Working Group. This group has been on the front lines of handling the extraordinary number of inquiries and correspondence from the research community leading to the 400 awards, the likes of which this agency has never seen. Through tight coordination, they have kept NSF's responses consistent and appropriate. Their work demonstrates this agency's character as a trustworthy source of leadership. They have made sure that NSF can do more than simply continue operations during this crisis—we're an active participant in the race for solutions.

Finally, this agency is already looking ahead to find ways to allow the U.S. scientific enterprise to increase its capacity for work in the current difficult climate and fully transition to normal operations later. NSF's Restart Planning Task Force will face tremendous challenges ahead, looking at how we can be most effective in applying resources and support. I am confident that they are equal to the task.

are working without the normal comforts of NSF tual meetings and digital communications. And even in the d to ensure that new NSF-supported research reflects agency laboration and broadening participation in science and

vledge the importance of the work NSF does supporting basic re every day. The RAPIDs and other NSF-supported research be nearly as effective if this agency hadn't spent decades rch workforce, its scientific facilities and its knowledge base

est efforts through the duration of this crisis, and I know you and we all are continuing to adjust to our virtual work. But late the remarkable accomplishments of this agency. They dedication. Thank you for all your work, and please continue

incerely,

Kelvin K. Droegemeie Acting Director NSF Acting Director's May 18, 2020 Letter to NSF includes several examples of natural/inherent risk management:

- Employee Safety
- RAPID Proposals and Awards
- NSF COVID-19 Program Director Working Group
- NSF's Recovery Planning Task Force

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Risk posture can change over time. 7

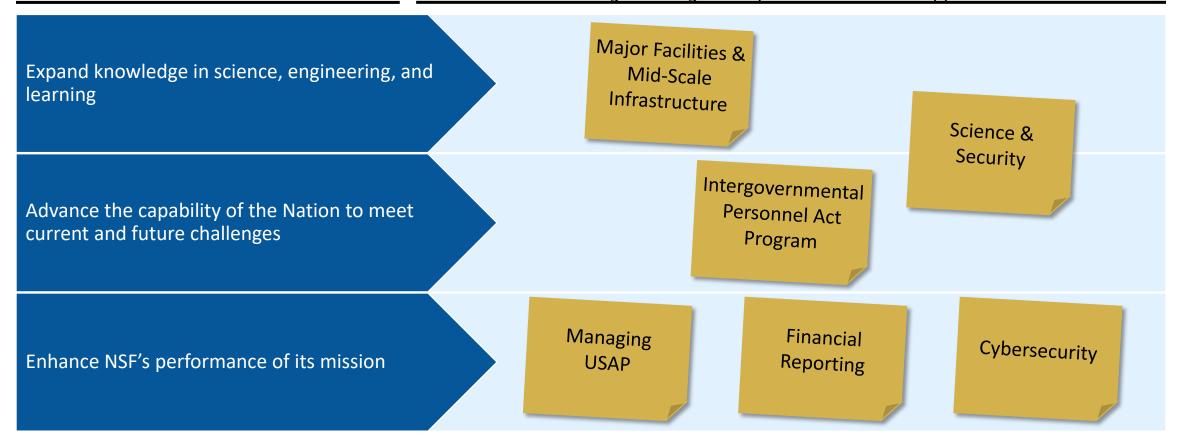
#### **Enterprise Risk Management at NSF**



NSF Strategic Goals

Drive Value & Deliver Mission

# NSF FY2020 ERM Objectives <sup>(1)</sup> Manage Strategic & Reputational Risks & Opportunities



<sup>(1)</sup> Each ERM area of focus is shown aligned with its primary related strategic goal; some cross-cut / align with multiple goals.

# **Example Risk Profile – Financial Reporting**



#### Financial Reporting 2020

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			ance of its mission.					
STRATEGIC OBJE	CTIVE 3.2- Pro	ocesses and O	perations. Continually improve agency oper					
RISK Category: Main: Financial	Inherent Assessment		Current Risk Response	Residual Assessment		Proposed Risk Response	Owner	Proposed Risk
Sub: Reputational	Impact	Likelihood		Impact	Likelihood			Response Category
FINANCIAL OBJEC management lav		ain 22-year re	ecord of unmodified clean opinions without	material weakr	nesses and in acc	cordance with the CFO Act and	d related finan	cial
Risk:	Rating:	Rating:	Continue strong control environment	Rating:	Rating:	Risk Reduction:	Head, Office	Internal
Maintaining	Moderate	High	through tone at the top by NSF Director,	Moderate	Moderate	<ul> <li>NSF will monitor</li> </ul>	of Budget	Control
internal control	Score: 3	Score: 3	Chief Financial Officer, and Senior	Score: 3	Score: 3	corrective actions and	Finance &	Assessment
over financial			Management support throughout NSF.			conduct Independent	Award	
reporting			Manage risks and decide how to allocate			Verification and	Management	
Causes:			resources and efforts to mitigate risks			Validation assessment		
Human Error,			and what types of control activities and			work to support	Office	
Process			management involvement is needed.			assurance that corrective	Director,	
Breakdowns,			Execute control activities in accordance			actions are effective.	Polar	
Poor			with policy, procedures and business				Programs	
Implementation			processes.			Opportunities:		
of Policy and			<ul> <li>Provide information and communication</li> </ul>			<ul> <li>Continue evaluation of</li> </ul>		
Procedures,			to maintain proper controls and			internal control in		
System			accountability.			accordance with OMB A-		
deficiencies.			<ul> <li>Maintain internal control over financial</li> </ul>			123 and GAO Greenbook		
New			reporting through active monitoring of			<ul> <li>Continue efforts to</li> </ul>		
Requirements			day to day operations, separate			explore emerging		
Outcome:			evaluations to ensure operations are as			technologies and data		
Material			intended.			science use cases.		
financial			<ul> <li>NSF has developed corrective actions to</li> </ul>					
statement			provide the Office of Polar Programs					
misstatement,			technical assistance.					
reputational			<ul> <li>NSF is updating internal controls and</li> </ul>					
damage, missed			Financial Systems for new CARES Act					
opportunities.			(COVID-19) reporting requirements.					

# **Essential Questions**



- 1. Do you have feedback on NSF's developing approach to ERM?
- 2. What does ERM mean to other NSB Committees?
- 3. How can NSF and the NSB best work together on ERM?

