CFO Office of the Future

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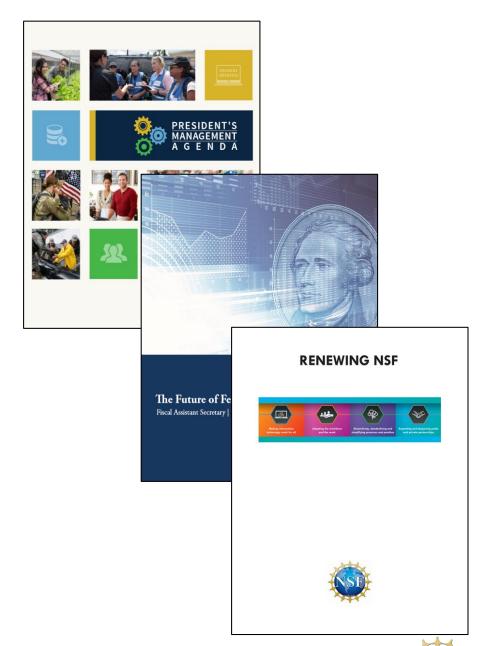National Science Foundation
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Introduction

Purpose:

- To share NSF's developing transformation practices, stories, and lessons learned; focusing on the ABCDs of technology impacts
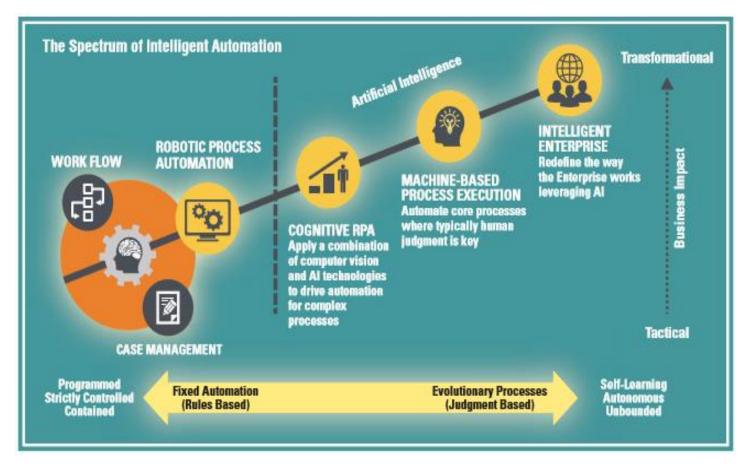
Outcome:

- NRC guidance and feedback on NSF's transformation strategy

A is for Artificial Intelligence/Automation
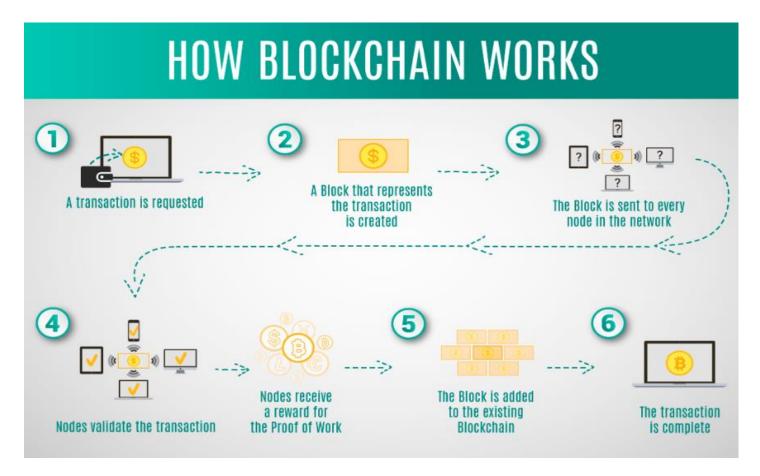

The Spectrum of Intelligent Automation

- NSF participation in Treasury Innovation Program
- Robotic Processing Automation (RPA) areas selected by staff
- Pilots nearly complete
- Center of Excellence and Governance Model in Progress

B is for Blockchain

- Blockchain Myth-busting Campaign is needed

- NSF participation in GSA Innovation Experiment and OMB-Treasury Blockchain Exploration Study

- NSF is working with Universities to develop a Federal Demonstration Project

HOW BLOCKCHAIN WORKS

① A transaction is requested

② A Block that represents the transaction is created

③ The Block is sent to every node in the network

④ Nodes validate the transaction

⑤ Nodes receive a reward for the Proof of Work

⑥ The Block is added to the existing Blockchain

The transaction is complete

Graphic Source: MLSDev, Blockchain Architecture Basics: Components, Structure, Benefits & Creation
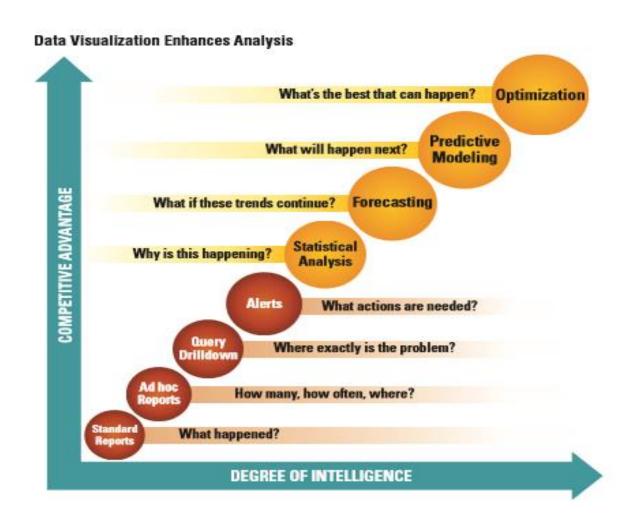
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C is for Cybersecurity

- Cybersecurity is a governmentwide enterprise risk

- CIOs and CFOs are in a unique position to work together

- Shared services can help

D is for Data Analytics

- Transforming Internal Control & Quality Assurance Program into a Data Analytic & Assurance Program
- Significant opportunities to reduce compliance burdens
- Financial Management Indicators Report

Data Visualization Enhances Analysis

Final Thoughts

1. Establish a sense of urgency
2. Form a powerful guiding coalition
3. Create a vision
4. Communicate the vision
5. Empower others to act on the vision
6. Plan for and create short term wins
7. Consolidate improvements and produce more change
8. Institutionalize new approaches