

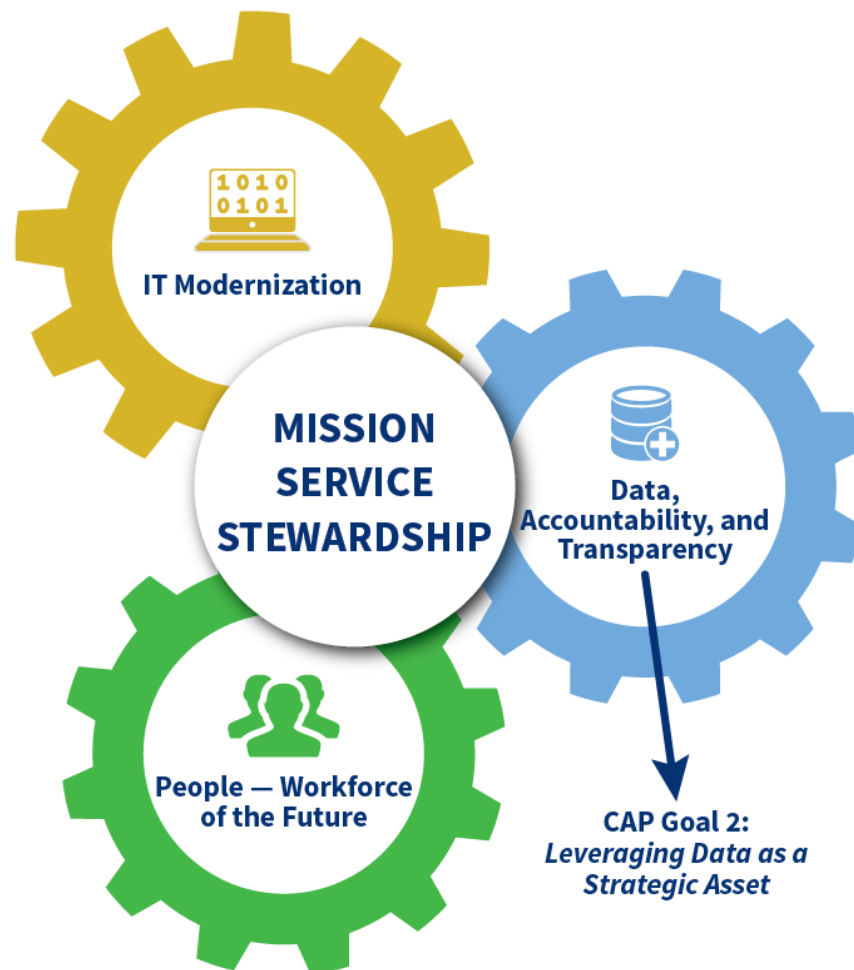


**PRESIDENT'S  
MANAGEMENT  
AGENDA**

# **FEDERAL DATA STRATEGY**

## **2020 Action Plan**

# President's Management Agenda: Transformation Drivers



## Cross-Agency Priority Goal 2: Leveraging Data as a Strategic Asset

### Goal Leaders

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# Cross-Agency Priority Goal 2: Leveraging Data as a Strategic Asset

## Goal Statement

- Leverage data as a strategic asset to grow the economy, increase the effectiveness of the Federal Government, facilitate oversight, and promote transparency.

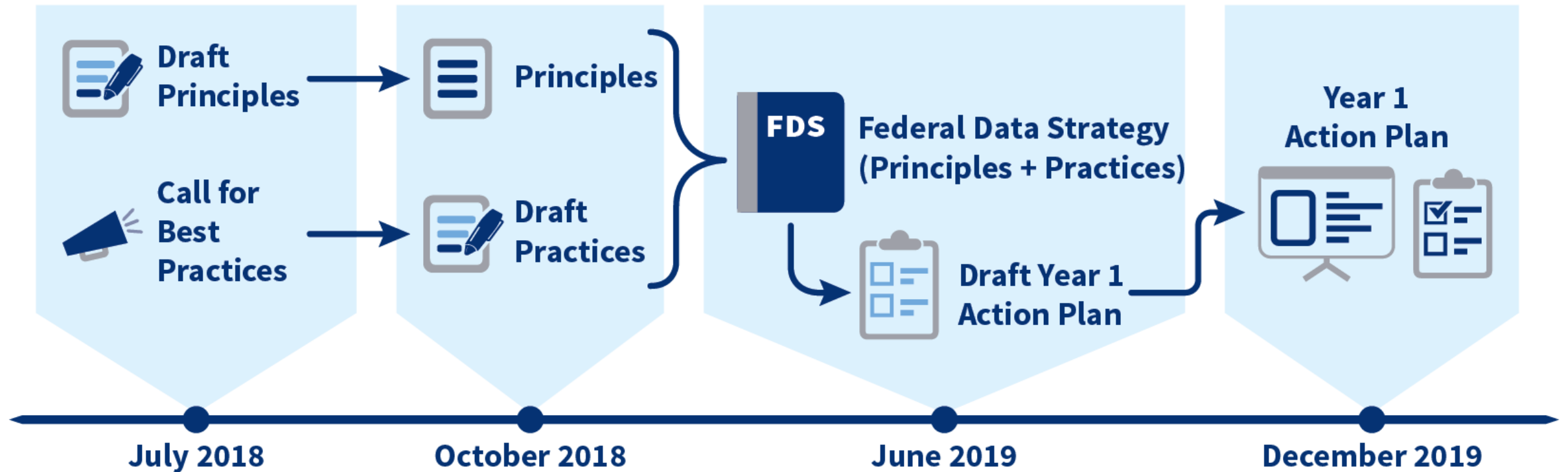
## Challenge

- The use of data is transforming society, business, and the economy. Data provided by the Federal Government have a unique place in society, and maintaining trust in Federal data is pivotal to a democratic process. The Federal Government needs a robust, integrated approach to using data to deliver on mission, serve customers, and steward resources while respecting privacy and confidentiality.

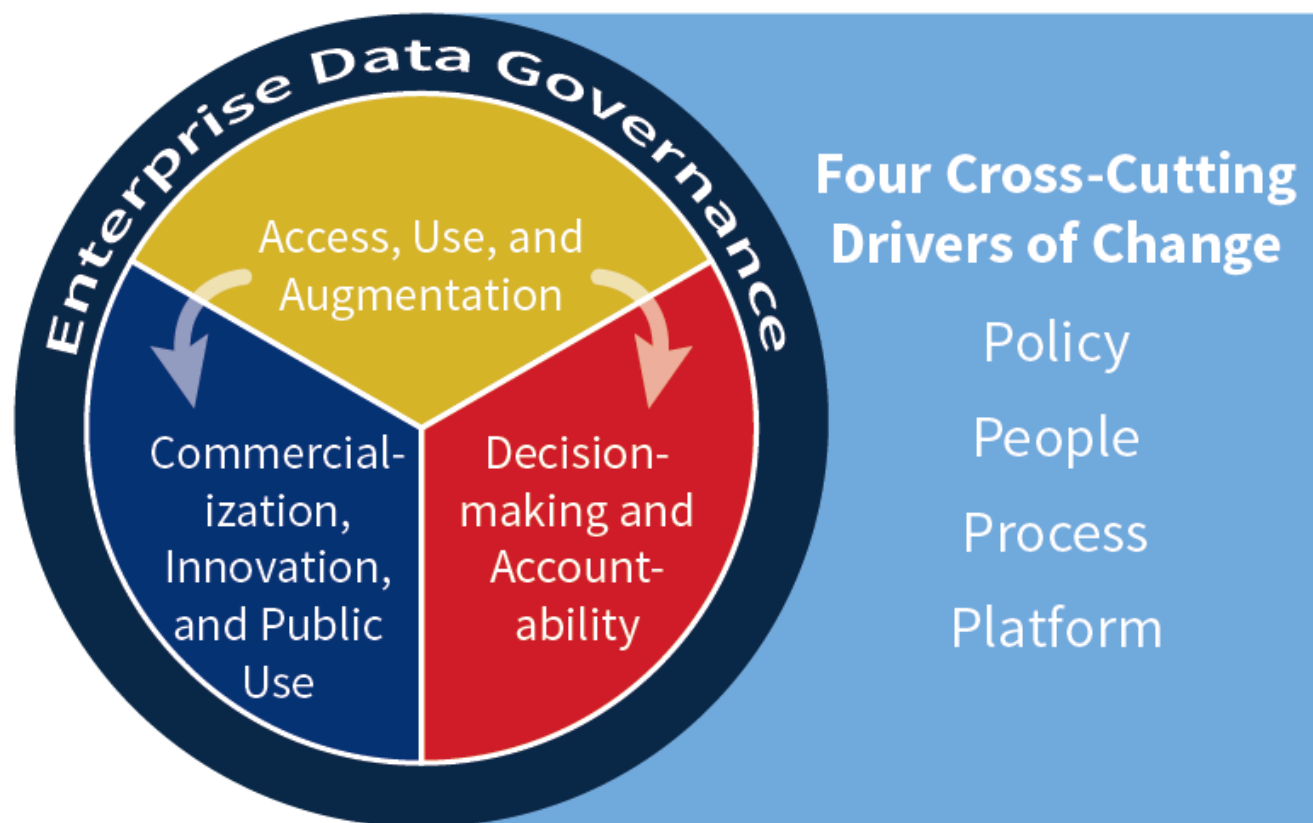
## Opportunity

- Develop a long-term, enterprise-wide Federal Data Strategy to better govern and leverage the Federal Government's data.
- Enable government data to be accessible and useful for the American public, businesses, and researchers.
- Improve the use of data for decision-making and accountability for the Federal Government, including for policy-making, innovation, oversight, and learning.

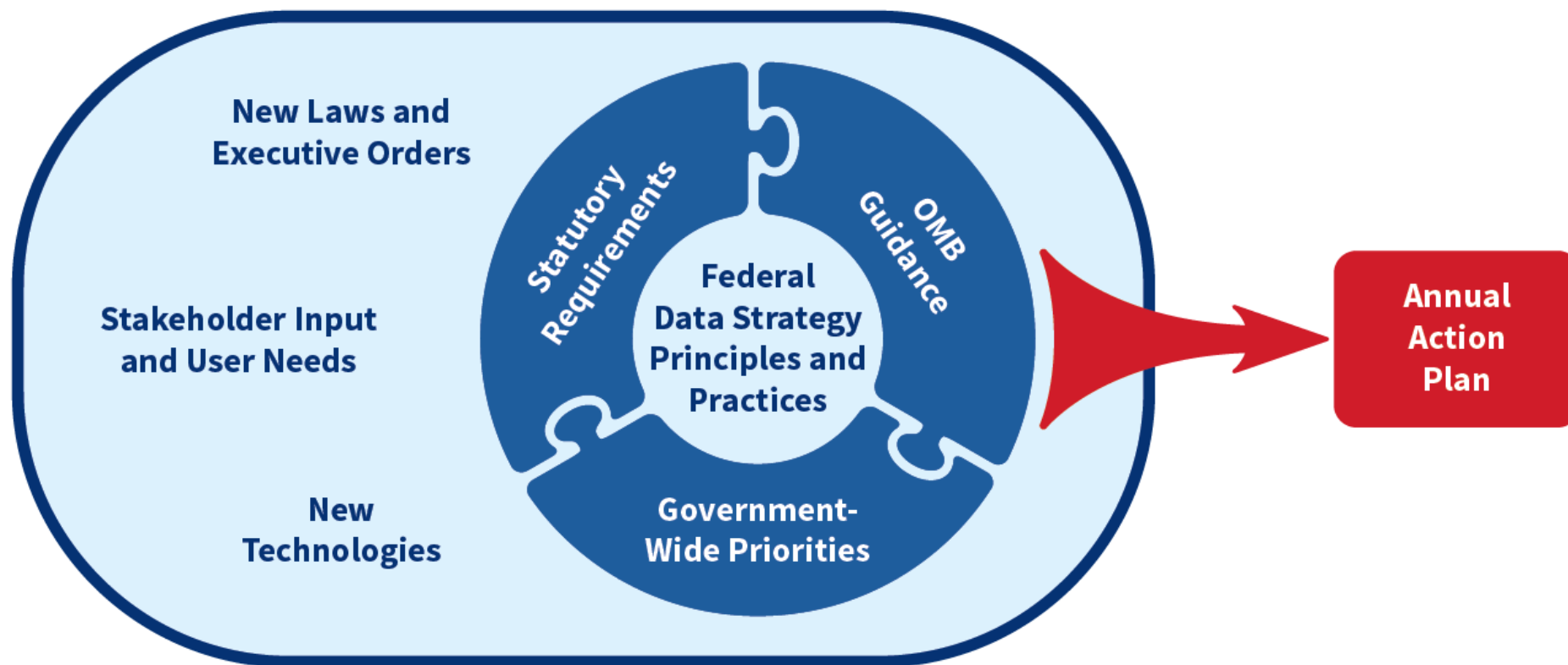
# Development Timeline



# Work Environment



# Ecosystem



# Framework

## Mission Statement

The mission of the Federal Data Strategy is to leverage the full value of Federal data for mission, service, and the public good by guiding the Federal Government in practicing ethical governance, conscious design, and a learning culture.





# Agency Actions

	Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance	Executive Order on Maintaining American Leadership in Artificial Intelligence	Improving Implementation of the Information Quality Act (M-19-15)
1. Identify Data Needs to Answer Priority Agency Questions	✓		✓
2. Constitute a Diverse Data Governance Body	✓		✓
3. Assess Data and Related Infrastructure Maturity			✓
4. Identify Opportunities to Increase Staff Data Skills	✓		
5. Identify Priority Data Assets for Agency Open Data Plans	✓	✓	✓
6. Publish and Update Data Inventories	✓		

# Community of Practice Actions

	Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance	Executive Order on Maintaining American Leadership in Artificial Intelligence	The Geospatial Data Act of 2018	Appendix A to OMB Circular No. A-123 Management of Reporting and Data Integrity Risk (M-18-16)
7. Launch a Federal Chief Data Officer Council	✓			
8. Improve Data and Model Resources for AI Research and Development		✓		
9. Improve Financial Management Data Standards				✓
10. Integrate Geospatial Data Practices into the Federal Data Enterprise			✓	

# Shared Solution Actions

	Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance	Executive Order on Maintaining American Leadership in Artificial Intelligence	Improving Implementation of the Information Quality Act (M-19-15)
11. Develop a Repository of Federal Enterprise Data Resources	✓		
12. Create an OMB Federal Data Policy Committee	✓		
13. Develop a Curated Data Skills Catalog	✓		
14. Develop a Data Ethics Framework		✓	✓
15. Develop a Data Protection Toolkit	✓		✓
16. Pilot a One-Stop Standard Research Application	✓		
17. Pilot an Automated Tool for Information Collection Reviews that Supports Data Inventory Creation and Updates	✓	✓	
18. Pilot Enhanced Data Management Tool for Federal Agencies	✓	✓	
19. Develop Data Quality Measuring and Reporting Guidance			✓
20. Develop a Data Standards Repository			✓

# Milestone Implementation Timeline: Agency Actions

## Action 1. Identify Data Needs to Answer Priority Agency Questions

Milestone	Measurement	Target Date	Reporting Mechanism	Required or Encouraged
1.1 Consult with key agency leaders, such as Chief Data Officers, Evaluation Officers and Statistical Officials to identify data needed to answer priority agency questions	Completion	September 30, 2020	Interim Learning Agenda or FY 2022 Budget Submission	Required for CFO Act Agencies only Encouraged for all agencies (see OMB M-19-23)
1.2 Identify data needs for answering priority questions in the interim learning agenda	Completion	September 30, 2020	Interim Learning Agenda or FY 2022 Budget Submission	Required for CFO Act Agencies only Encouraged for all agencies (see OMB M-19-23)
1.3 Develop a plan to engage the stakeholders needed to access or acquire the data needed to answer priority questions	Completion	September 30, 2020	Interim Learning Agenda or FY 2022 Budget Submission	Required for CFO Act Agencies only Encouraged for all agencies (see OMB M-19-23)

# Milestone Implementation Timeline: Agency Actions

## Action 2. Constitute a Diverse Data Governance Body

Milestone	Measurement	Target Date	Reporting Mechanism	Required or Encouraged
2.1 Publish agency data governance materials (membership, charter, meeting cadence) on [agency].gov/data web page	Completion	January 31, 2020	Post to agency/data web page	Required for all agencies
2.2 After you complete your assessment of current staff data skills and literacy (see Action 3), dedicate staff to support DGB	Number of FTEs dedicated	September 30, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a>	Encouraged for all agencies
2.3 Document how the DGB receives its authority	Completion	September 30, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a>	Encouraged for all agencies
2.4 Put in place a data strategy or road map	Completion	1 activity per quarter, any order	<a href="https://strategy.data.gov">strategy.data.gov</a> & in agency Information Resource Management Strategic Plan	Encouraged for all agencies
2.5 Develop a plan for capital planning for enterprise data assets and infrastructure				
2.6 Adopt a master data management program				

# Milestone Implementation Timeline: Agency Actions

## Action 3. Assess Data and Related Infrastructure Maturity

Milestone	Measurement	Target Date	Reporting Mechanism	Required or Encouraged
3.1 Select an operational maturity assessment model for data and data infrastructure	Completion	June 30, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a>	Required for all agencies
3.2 Agency Chief Data Officer and other senior-level staff participate in any training or technical assistance related to maturity assessments	Number of people attended training	September 30, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a>	Encouraged for all agencies
3.3 Conduct and document the outcome of the initial data maturity assessment	Completion	September 30, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a>	Encouraged for all agencies

# Milestone Implementation Timeline: Agency Actions

## Action 4. Identify Opportunities to Increase Staff Data Skills

Milestone	Measurement	Target Date	Reporting Mechanism	Required or Encouraged
4.1 Perform an assessment of current staff data literacy and data skills	Completion	June 30, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a>	Required for CFO Act Agencies only Encouraged for all agencies
4.2 Conduct a gap analysis between the current staff's skills and the skills the agency requires	Completion	September 30, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a>	Required for CFO Act Agencies only Encouraged for all agencies
4.3 Based on the assessment, establish a baseline and develop a performance plan to close the identified data skills and literacy gaps	Completion	December 31, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a>	Required for CFO Act Agencies only Encouraged for all agencies

# Milestone Implementation Timeline: Agency Actions

## Action 5. Identify Priority Data Assets for Agency Open Data Plans

Milestone	Measurement	Target Date	Reporting Mechanism	Required or Encouraged
5.1 Publish an Open Data Plan for sharing priority agency data assets, developed with stakeholder engagement, including data assets that support AI R&D (see Action 6)	Completion	After OMB Open Data Plan Guidance is issued; Annually on Agency IRM Strategic Plan schedule	Agency Information Resource Management Strategic Plan	Required for all agencies
5.2 Execute a process to evaluate and improve the timeliness, completeness, consistency, accuracy, usefulness, and availability of open Government data assets	Qualitative and quantitative improvements	December 31, 2020	<a href="https://strategy.data.gov">strategy.data.gov</a> & agency public data.json APIs	Required for all agencies



# Milestone Implementation Timeline: Agency Actions

## Action 6. Publish and Update Data Inventories

Milestone	Measurement	Target Date	Reporting Mechanism	Required or Encouraged
6.1 Update comprehensive data inventories for overall completeness and priority data asset sprints	Metadata quality improvements	Minimally every 3 months, as often as possible	Agency public data.json APIs	Required for all agencies
6.2 Update comprehensive data inventory to conform to standard metadata	Completion	June 30, 2020	Agency public data.json APIs	Required for all agencies

# Milestone Implementation Timeline: Community of Practice Actions

## Action 7. Launch a Federal Chief Data Officer Council

Milestone	Measurement	Target Date	Responsible Party
7.1 Launch CDO Council	Number of meetings held	January 31, 2020	OMB
7.2 Create resources	Number of resources published	December 31, 2020	CDOs
7.3 Encourage use of resources by agencies	Track adoption of resources by agencies	December 31, 2020	CDOs

# Milestone Implementation Timeline: Community of Practice Actions

## Action 8. Improve Data and Model Resources for AI Research and Development

Milestone	Measurement	Target Date	Responsible Party
8.1 Identify barriers to access and quality limitations	Completion of RFI	February 29, 2020	OMB*
8.2 Provide technical schema formats on inventories	Completion	December 31, 2020	OMB*
8.3 Pilot demonstration of how access to data useful for AI should be enhanced	Completion	December 31, 2020	CDOs

\*In consultation with the National Science and Technology Council Machine Learning and AI Subcommittee and the CDO Council.

# Milestone Implementation Timeline: Community of Practice Actions

## Action 9. Improve Financial Management Data Standards

Milestone	Measurement	Target Date	Responsible Party
9.1 Getting Payments Right	Metrics related to this CAP Goal are being tracked on <a href="https://performance.gov">performance.gov</a>	See timeline on <a href="https://performance.gov">performance.gov</a>	Getting Payments Right Executive Steering Committee
9.2 Results Oriented Accountability for Grants	Metrics related to this CAP Goal are being tracked on <a href="https://performance.gov">performance.gov</a>	See timeline on <a href="https://performance.gov">performance.gov</a>	CAP Goal 8 Executive Steering Committee
9.3 Promote public trust in the stewardship of taxpayer dollars	Publication of draft strategy	September 30, 2020	Financial Data Transformation Executive Steering Committee

# Milestone Implementation Timeline: Community of Practice Actions

## Action 10. Integrate Geospatial Data Practices into the Federal Data Enterprise

Milestone	Measurement	Target Date	Responsible Party
10.1 Establish the NSDI strategic plan	Completion	December 31, 2020	SAOGI at OMB FGDC FGDC NGDA Lead Covered Agencies GSA
10.2 Publish a GeoPlatform providing standards-compliant web services for NGDAs	Completion	December 31, 2020	
10.3 Engage with other relevant councils	Number of engagements	December 31, 2020	
10.4 Publish NGDA data theme data assets with standards compliant metadata and webservice endpoints	Percentage of NGDA data assets that are compliant	December 31, 2020	
10.5 Track NGDAs for implementation of standards	Percentages of NGDAs with: i) metadata standards ii) established content standards iii) standards in process iv) data assets not requiring standards v) no established standards	December 31, 2020	

# Milestone Implementation Timeline: Shared Solution Actions

## Action 11. Develop a Repository of Federal Enterprise Data Resources

Milestone	Measurement	Target Date	Responsible Party
11.1 Make regular updates to resources.data.gov in response to stakeholder input	Frequency of feature updates and site improvements	December 31, 2020	GSA
11.2 Track growth and success of the site	Number of resources available by type, resource usage	December 31, 2020	GSA
11.3 Engage stakeholders to prioritize content	Number of stakeholder engagement activities	December 31, 2020	GSA, the Office of Government Information Services of the National Archives, and OMB

# Milestone Implementation Timeline: Shared Solution Actions

## Action 12. Create OMB Federal Data Policy Committee

Milestone	Measurement	Target Date	Responsible Party
12.1 Launch FDPC	Number of meetings held	January 31, 2020	OMB
12.2 Set priorities for 2020	Completion of written priorities endorsed by membership	March 31, 2020	OMB
12.3 Carry out at least 1 data policy coordination activity	Number of data policy related memorandum and circulars updated, streamlined, or rescinded	December 31, 2020	OMB

# Milestone Implementation Timeline: Shared Solution Actions

## Action 13. Develop a Curated Data Skills Catalog

Milestone	Measurement	Target Date	Responsible Party
13.1 Share draft catalog contents with CDOs and other stakeholders	Completion	February 29, 2020	GSA
13.2 Collect input and make revisions	Number of stakeholder engagement activities; Improvements added	June 30, 2020	GSA
13.3 Publish the catalogue on <a href="https://resources.data.gov">resources.data.gov</a>	Posted to <a href="https://resources.data.gov">resources.data.gov</a> ; Number of resources available in the catalog by data role	November 30, 2020	GSA
13.4 Transfer responsibility for maintenance to the CDO council	Completion	December 31, 2020	CDO Council



# Milestone Implementation Timeline: Shared Solution Actions

## Action 14. Develop a Data Ethics Framework

Milestone	Measurement	Target Date	Responsible Party
14.1 Initial examination of ethical issues encountered across data life cycle		June 30, 2020	GSA with CDO Council and ICSP
14.2 Release initial data ethics framework and use cases	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	December 31, 2020	GSA
14.3 Transfer responsibility for review and update		Ongoing every 24 months	CDO Council, ICSP

# Milestone Implementation Timeline: Shared Solution Actions

## Action 15. Develop a Data Protection Toolkit

Milestone	Measurement	Target Date	Responsible Party
15.1 Release initial toolkit	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	December 31, 2020	FCSM
15.2 Release updated <i>Report on Statistical Disclosure Limitation Methodology</i>	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	December 31, 2020	FCSM

# Milestone Implementation Timeline: Shared Solution Actions

## Action 16. Pilot a One-stop Standard Research Application

Milestone	Measurement	Target Date	Responsible Party
16.1 Create pilot portal	Completion	March 31, 2020	Census Bureau
16.2 Recruit users to try the portal and give feedback	Number of users	April 30, 2020	Census Bureau
16.3 Publish report describing success of the project and feedback that will inform future improvements	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	December 31, 2020	Census Bureau

# Milestone Implementation Timeline: Shared Solution Actions

## Action 17. Pilot an Automated Tool for Information Collection Reviews that Supports Data Inventory Creation and Updates

Milestone	Measurement	Target Date	Responsible Party
17.1 Develop pilot tool	Completion	July 31, 2020	NCES
17.2 Test tool with at least two agencies	Completion	December 31, 2020	NCES
17.3 Engage stakeholders for feedback on the tool	Number of stakeholder engagement activities	December 31, 2020	NCES
17.4 Publish report describing agency tests and stakeholder input	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	December 31, 2020	NCES

# Milestone Implementation Timeline: Shared Solution Actions

## Action 18. Pilot Enhanced Data Management Tool for Federal Agencies

Milestone	Measurement	Target Date	Responsible Party
18.1 Demonstrate pilot and initial feature set with a pilot agency	Completion	March 31, 2020	GSA
18.2 Infrastructure/security roadmap for production platform	Completion	March 31, 2020	GSA
18.3 Achieve interoperability with continually updated Federal open data metadata schema	Completion	June 30, 2020	GSA
18.4 Develop business plan and cost model	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	June 30, 2020	GSA
18.5 Onboard agency customers	Number of agencies onboarded	September 30, 2020	GSA
18.6 Demonstrate increased data asset availability and improved usage	Number of datasets and usage of data assets through platform	December 31, 2020	GSA

# Milestone Implementation Timeline: Shared Solution Actions

## Action 19. Develop Data Quality Measuring and Reporting Guidance

Milestone	Measurement	Target Date	Responsible Party
19.1 Completion of report on best practices for reporting on output quality	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	June 30, 2020	FCSM
19.2 Completion of metadata guidance for use by data originators	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	December 31, 2020	FCSM
19.3 Develop tools to aid metadata maintenance	Posted to <a href="https://resources.data.gov">resources.data.gov</a>	December 31, 2020	FCSM

# Milestone Implementation Timeline: Shared Solution Actions

## Action 20. Develop a Data Standards Repository

Milestone	Measurement	Target Date	Responsible Party
20.1 Develop repository with communities, frameworks, and schemas	Completion	December 31, 2020	GSA & OMB

# Resources

## [resources.data.gov](https://resources.data.gov)

**Case Studies:** Examples of what agencies are currently implementing

**Data.gov Schema:** The standard metadata schema required for inclusion in data.gov, the Federal data catalog

**Federal Data Strategy:** Guiding principles and best practices and associated implementation tools

**Guidance and memoranda:** Memoranda from the Office of Management and Budget on data issues and other guidance applicable to federal agencies

**Playbooks:** Decision points, checklists, and questions that help organizations navigate options

**Requirements:** Definitions, laws, policies, and regulations

**Skill Builders:** Professional development resources and curriculums to improve data-related skills

**Standards:** Guidance on preferred technical formats, licensing, and resources related to implementing data standards

**Tools:** Tools available to agencies to help execute data goals



# Contact Information

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[public.govdelivery.com/accounts/USGSA/subscribers/new?topic\\_id=USGSA\\_756](https://public.govdelivery.com/accounts/USGSA/subscribers/new?topic_id=USGSA_756)