



Department of State | Agency Priority Goal Action Plan

Data Informed Diplomacy

Goal Leader:

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Overview – Goal Statement



The U.S. Department of State aims to achieve Data Informed Diplomacy by...

Advancing an enterprise data and analytics capability that enables cross-functional continuous insights, timely and transparent reporting, and evidence-based decision making at the Department of State.

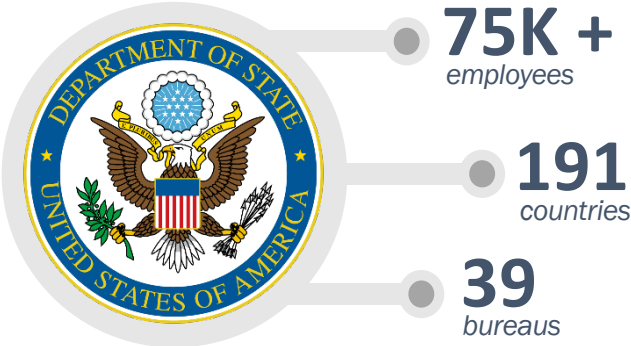
By Sept 2021, we will align and augment a data and analytics cadre that can harness data and apply cutting-edge analytics processes and products to foreign policy and operational challenges, and fulfill the requirements of the Federal Data Strategy to include building the first Department Data Strategy and enterprise Data Catalog.*

Overview – Challenges and Opportunities


CHALLENGES


Data consumers across the Department struggle to access trusted data in a timely manner to support decision-making


Data Consumers at State





Current Challenges:

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Cultural Norms for Sharing Data:
Shifting culture to treat data as an enterprise asset
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Data Security Risks:
Privacy and access to data is often considered late in the data sharing process
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Fragmented and siloed data:
Removing data stovepipes so insights can be derived from disparate data sources
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Technology Constraints:
Data technical architecture requires modernization
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Data-related Talent:
Enhance training and development opportunities to build data capacity

OPPORTUNITIES

Improved data discovery, access, & governance will enable data driven decision-making

1. Data Discovery

The Department has the opportunity to provide a comprehensive data catalog, consistent data lexicon, and standardized data processes that help meet needs to find and discover data.

2. Data Access

The Department has the opportunity to improve the ability to access and utilize analytic tools and data to enable analysts to better leverage data and tools to deliver impact.

3. Data Governance

The Department has the opportunity to improve the quality, completeness, and accuracy of data to realize the full benefit of data analytics and other advanced decision-making tools.

4. Data-Informed Decision Making

By enhancing its data discovery, access, and governance capabilities, the Department has the opportunity to enhance the data acumen of its global workforce to drive more effective data-informed decision making at all levels.

5. Leverage steering bodies (EGB, ITEC, EDC)

Integrating enterprise steering committees together can help the alignment of shared goals and priorities.

Management Top Priorities



Talent

– “Be the employer of choice & care for our people”



Security & Infrastructure

– “Protect our people & assets”



Excellence & Innovation –

“Optimize & continuously improve the customer experience



Data & Analytics

– “Enable data-informed decision-making”



Technology

– “Modernize with a mission-first, field-first focus”

Goal Structure and Strategies

Goal: Advance an enterprise data and analytics capability that enables cross-functional continuous insights, timely and transparent reporting, and evidence-based decision making at the Department of State. By Sept 2021, align and augment a data and analytics cadre that can harness data and apply cutting-edge analytics processes and products to foreign policy and operational challenges, and fulfill the requirements of the Federal Data Strategy to include building the first Department Data Strategy and enterprise Data Catalog.

Enabling Strategies

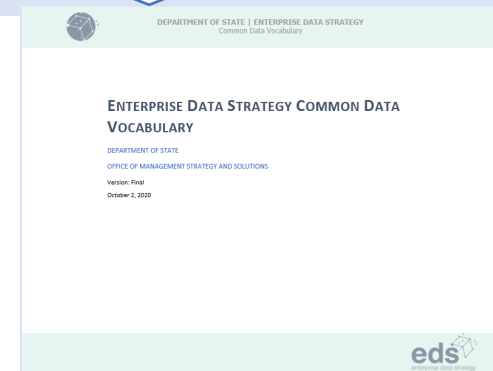
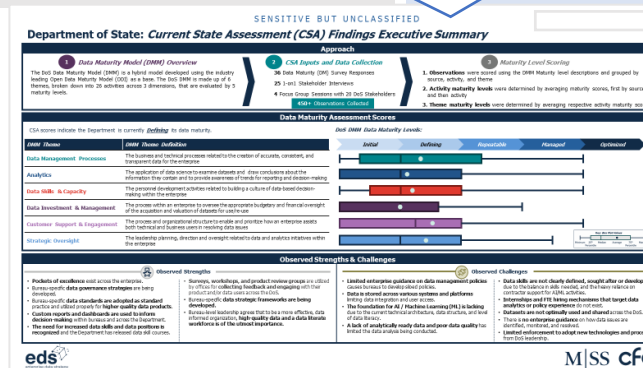
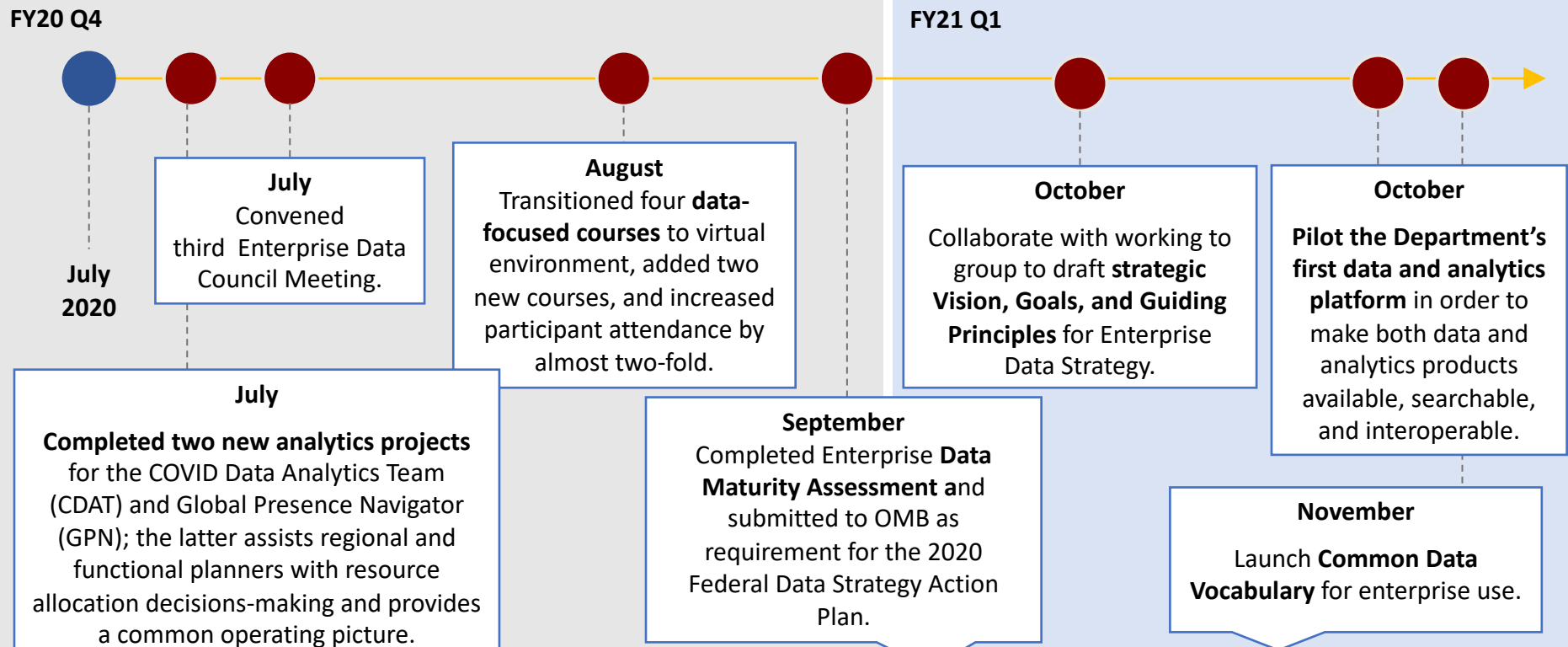
Imbue Data-focused Culture with Talent	Establish Data Governance	Increase Data Analytics Capabilities	Modernize Data Technology Infrastructure
<ul style="list-style-type: none"> ✓ Grow the development of data and analytics expertise through improved hiring and retention methodologies ✓ Promote a culture of data sharing and applied analytics for everyday decision making 	<ul style="list-style-type: none"> ✓ Create an enterprise data strategy that identifies and prioritizes critical mission and business needs that require data management enhancements ✓ Formalize responsibilities, accountabilities, and enablement policies, standards, and processes to manage the data lifecycle starting with the data inventory and catalog 	<ul style="list-style-type: none"> ✓ Align data collaboration and analytics cells to increase data sharing and leverage cutting-edge analytics products ✓ Apply a range of visualization tools and techniques to improve reporting data insights to a broad audience base 	<ul style="list-style-type: none"> ✓ Advance a flexible, scalable, cost effective data and analytics architecture that aligns with the enterprise IT overarching roadmap ✓ Establish a data hub that serves as the cornerstone for improving the quality and production of cross-cutting data analytics

Key Indicators



<ul style="list-style-type: none"> • Increased percentage of official position descriptions that require data practitioner skillsets • Increased training opportunities made available to build data skills throughout the workforce 	<ul style="list-style-type: none"> • Increased number of critical data assets inventoried and cataloged for sharing across the Department • Increased number of data liaisons for each Bureau • Creation of the Department’s Enterprise Data Strategy 	<ul style="list-style-type: none"> • Increased use of data analytics products to enable mission and business decision-making • Reduction in time to prepare, analyze, and report on recurring, cross-cutting business requirements 	<ul style="list-style-type: none"> • Increased availability of data sets and analytical insights that enable the enterprise to make better use of data • Increased availability of data technology tools that address business reporting and analysis needs
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Summary of Progress – FY 2020 Q4



The Department met most milestones for its FY20 Q4 reporting period and all FY21 Q1 milestones are on track for successful completion.




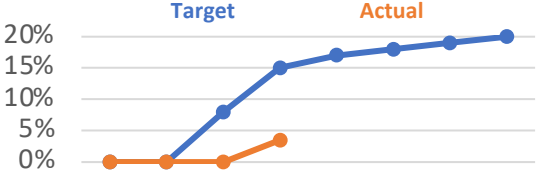
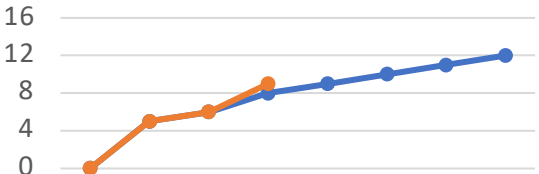
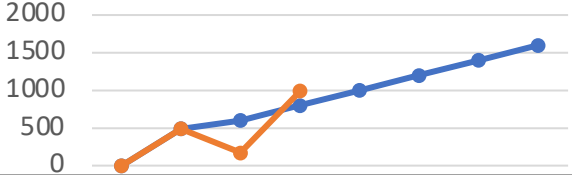

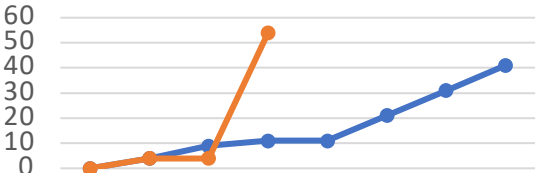
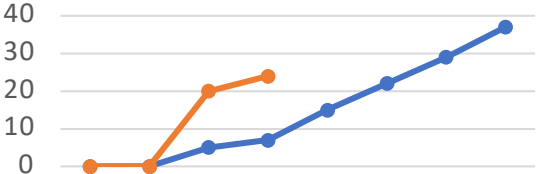
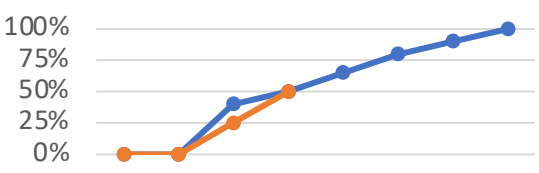
Key Milestones, Indicators, & Metrics (1 of 2)

STRATEGY AREA	MILESTONE(S)	STATUS	KEY INDICATOR	METRIC(S)	FY2020 TARGET (CUMULATIVE)		FY2021 TARGET (CUMULATIVE)	
 IMBUE DATA- FOCUSED CULTURE WITH TALENT	Incorporate data practitioner skillsets in target % of position descriptions by FY20 Q4 and by FY21 Q4	Behind Schedule	Increased percentage of official position descriptions that require data practitioner skillsets	Percentage of employee data-related position descriptions created	Q1: N/A		Q1: 17%	
					Q2: 0		Q2: 18%	
					Q3: 8%		Q3: 19%	
					Q4: 15%		Q4: 20%	
	Develop three new data literacy courses by FY20 Q4 and four additional by FY21 Q4	Ahead of Schedule	Increased training opportunities made available to build data skills throughout the workforce	Number of available in-house data practitioner courses	Q1: N/A	Q2: 5	Q1: 9	Q2: 10
		Ahead of Schedule			Q3: 6	Q4: 8	Q3: 11	Q4: 12
				Number of participants completing in-house and partner-endorsed data analytics courses	Q1: N/A	Q2: 488	Q1: 1000	Q2: 1200
Q3: 600					Q4: 800	Q3: 1400	Q4: 1600	
 ESTABLISH DATA GOVERNANCE	Release initial data inventory and catalog by FY20 Q4 Release revised data inventory and catalog by FY21 Q4	Ahead of Schedule	Increased number of critical data assets inventoried and cataloged for sharing across the Department	Number of key mission and business identified data sets enrolled in initial releases of data catalog	Q1: N/A		Q1: 11	
					Q2: 4		Q2: 21	
					Q3: 9		Q3: 31	
					Q4: 11		Q4: 41	
	Data Liaisons Identified for each Bureau	Ahead of Schedule	Increased number of data liaisons for each Bureau	Number of data liaisons identified for each Bureau	Q1: N/A	Q2: 0	Q1: 15	Q2: 22
					Q3: 5	Q4: 7	Q3: 29	Q4: 37
	Complete Draft EDS by FY20 Q4 Complete Final EDS by FY21 Q2	On Track	Creation of the Department’s Enterprise Data Strategy	Completion percentage of the Department’s Enterprise Data Strategy.	Q1: N/A	Q2: 0%	Q1: 65%	Q2: 80%
					Q3: 40%	Q4: 50%	Q3: 90%	Q4: 100%


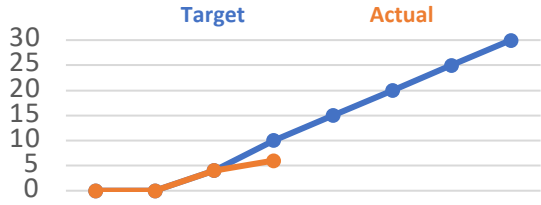
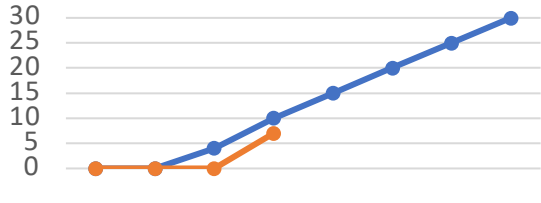

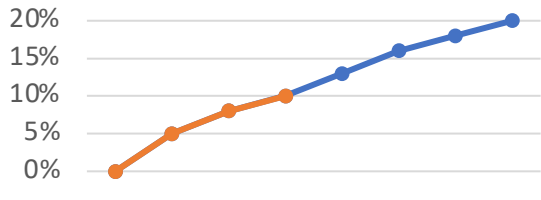
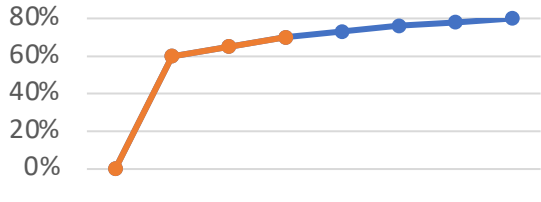
Key Milestones, Indicators, & Metrics (2 of 2)

STRATEGY AREA	MILESTONE(S)	STATUS	KEY INDICATOR	METRIC(S)	FY2020 TARGET (CUMULATIVE)	FY2021 TARGET (CUMULATIVE)
 INCREASE DATA ANALYTICS CAPABILITIES	Implement system tracker of CfA project requests by customer Bureaus and Offices	Behind Schedule	Increased use of data analytics products to enable mission and business decision-making	Number of core programs applying data analytics products as reported by Bureau data liaisons	Q1: N/A	Q1: 15
					Q2: 0	Q2: 20
					Q3: 4	Q3: 25
					Q4: 10	Q4: 30
	Creation of Data Analytics Cells within Bureaus or Offices	Behind Schedule	Reduction in time to prepare, analyze, and report on recurring, cross-cutting business requirements	Number of bureau liaisons reporting on 25% or better improvement in the time to meet business requirement reporting through the application of enhanced data management processes, tools, and techniques	Q1: N/A	Q1: 15
					Q2: 0	Q2: 20
					Q3: 4	Q3: 25
					Q4: 10	Q4: 30
 MODERNIZE DATA TECHNOLOGY INFRASTRUCTURE	Establish a data hub enabling enterprise access to data and analytical insights	On Track	Increased availability of data sets and analytical insights that enable the enterprise to make better use of data	Percentage increase in the number of data sets and analytical products available for enterprise use	Q1: N/A	Q1: 13%
					Q2: 5%	Q2: 16%
					Q3: 8%	Q3: 18%
					Q4: 10%	Q4: 20%
	Establish technology infrastructure that enables the creation of cross-cutting analytics	On Track	Increased availability of data technology tools that address business reporting and analysis needs	Percentage increase in the number of data technology tools certified for enterprise-wide implementation	Q1: N/A	Q1: 73%
					Q2: 60%	Q2: 76%
					Q3: 65%	Q3: 78%
					Q4: 70%	Q4: 80%

Metrics Update | FY 2020 Q4 (1 of 2)

Strategy Area	Metric(s)	FY20 Q4 Targets	FY20 Q4 Actuals	Comments	FY20 Q1FY20 Q2FY20 Q3FY20 Q4FY21 Q1FY21 Q2FY21 Q3DY21 Q4
 IMBUE DATA-FOCUSED CULTURE WITH TALENT	Percentage of employee data-related position descriptions created	15%	3.5%	Department of State reviewed over 13,000 positions and found over 450 to include a data-focused skillset.	
	Number of available in-house data practitioner courses	8	9	Department of State successfully transformed courses to live-virtual format to accommodate COVID-19 environment and plan to launch two additional courses.	
	Number of participants completing in-house and partner-endorsed data analytics courses	800	989	Enrollments have exceeded targets due to the Department's ability to transition to a virtual environment.	
 ESTABLISH DATA GOVERNANCE	Number of key mission and business identified data sets enrolled in initial releases of data catalog	11	54	Department of State is currently prioritizing datasets for enterprise use.	
	Number of data liaisons identified for each Bureau	10	25	Department of State continues to identify data liaisons across the enterprise.	
	Completion percentage of the Department's Enterprise Data Strategy	50%	50%	Department of State completed its Enterprise Data Maturity Assessment and initiated the future-state design and draft of the Enterprise Data Strategy.	

Metrics Update | FY 2020 Q4 (2 of 2)

STRATEGY AREA	METRIC(S)	FY20 Q4 TARGETS	FY20 Q4 ACTUALS	COMMENTS	FY20 Q1 FY20 Q2 FY20 Q3 FY20 Q4 FY21 Q1 FY21 Q2 FY21 Q3 DY21 Q4
 INCREASE DATA ANALYTICS CAPABILITIES	Number of core programs applying data analytics products as reported by Bureau data liaisons	10	6	Department of State is continuing to identify bureaus and offices that have existing analytic capabilities.	
	Number of bureau liaisons reporting on 25% or better improvement in the time to meet business requirement reporting through the application of enhanced data management processes, tools, and techniques	10	7	Department of State is continuing to identify bureaus and offices that have reported defined levels of data management maturity.	
 MODERNIZE DATA TECHNOLOGY INFRASTRUCTURE	Percentage increase in the number of data sets and analytical products available for enterprise use	10%	10%	Successfully launched analytical products and respective datasets for enterprise use.	
	Percentage increase in the number of data technology tools certified for enterprise-wide implementation	70%	70%	Successfully added two enterprise technology services.	

Data Accuracy and Reliability

Data Source	Accuracy	Reliability	Notes
<u>Enabling Strategy #1: Imbue Data-focused Culture with Talent</u>			
<ul style="list-style-type: none"> Bureau Liaisons Global Talent Management 	Med	Med	Will improve with designated occupational series.
<ul style="list-style-type: none"> Foreign Service Institute Course Catalog 	High	Med	Proper tagging of data-related courses and improved capture of participant demographics will improve reliability
<u>Enabling Strategy #2: Establish Data Governance</u>			
<ul style="list-style-type: none"> Enterprise Data Inventory 	High	High	CfA provides baseline targets and quantification of data sets
<ul style="list-style-type: none"> Enterprise Data Catalog 	High	High	CfA provides baseline targets and quantification of data sets
<ul style="list-style-type: none"> EDC Working Group 	Med	Med	Project planning
<u>Enabling Strategy #3: Increase Data Analytics Capabilities</u>			
<ul style="list-style-type: none"> EDC Working Group 	Med	Med	Implementation Initiative underway
<u>Enabling Strategy #4: Modernize Data Technology Infrastructure</u>			
<ul style="list-style-type: none"> Information Resource Management (IRM) Database 	Med	Med	CfA- IRM and data users increased collaboration will improve level of accuracy and reliability

The Department is currently improving its capture methodology for sharing high-quality datasets across the enterprise.

Additional Information

Contributing Programs				
Organizations	Program Activities	Regulations	Policies	Other Federal Activities
<ul style="list-style-type: none">• Office of Management Strategy and Solution (M/SS)• Center for Analytics (CfA)• Enterprise Data Council (EDC)• Bureau of Information Resource Management (IRM)	<ul style="list-style-type: none">• (1) Imbue Data-Focused Culture with Talent• (2) Establish Data Governance• (3) Increase Data Analytics Capabilities• (4) Modernize Data Technology Infrastructure	<ul style="list-style-type: none">• Federal Data Strategy 2020 Action Plan• Geospatial Data Strategy Act of 2018• Foundations for Evidence-Based Policymaking Act of 2018• E-Government Act (eGov)	<ul style="list-style-type: none">• Open Data Policy (M 13-13)	<ul style="list-style-type: none">• President's Management Agenda (PMA)

Stakeholder / Congressional Consultations:

CfA meets regularly with OMB on data initiatives.