



# Agency Priority Goal Action Plan

## IT Modernization

### Goal Leader:

Stuart McGuigan, Chief Information Officer, Department of State

# Overview – Goal Statement

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- Enhance the effectiveness of the Department's IT portfolio through increased productivity, usability, security, and transparency; ensuring that all IT services and solutions are aligned to the mission of the Department. By September 30, 2021, the Department will satisfy Field Enabling IT baseline levels for capability and performance at all field locations; modernize its suite of core, mission-aligned IT systems incorporating a Cloud Smart approach that enables the Department to share resources and measure efficiencies gained via common cloud platform environments; and achieve a continuous cyber risk diagnostics and monitoring capability that embeds security equities throughout the full lifecycle of all IT systems within every sponsored environment.

# Overview – Challenges and Opportunities

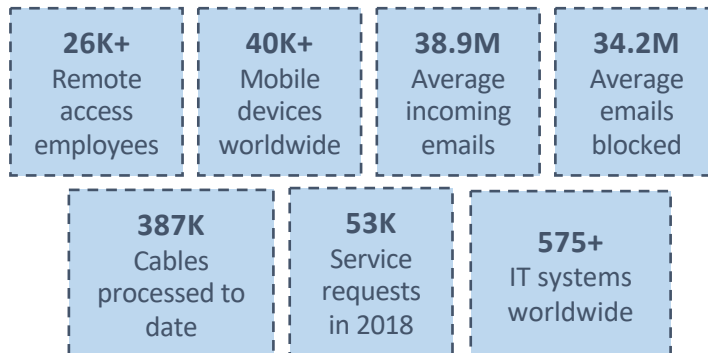
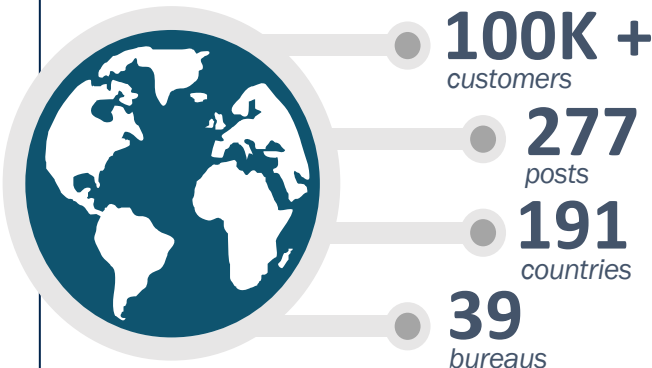
Modernizing legacy systems while coordinating a diverse set of IT services to meet the needs of the Department's global IT customers

The Department is addressing three primary opportunities to IT management

## IT Services Worldwide

**50+**

Federal Agencies, Non-Governmental Organizations, and other outside partners who receive IT services



### 1. IT Modernization

- The Department needs to provide a consistent technology experience for its customers and effectively align IT modernization initiatives to enterprise standards, architecture, and technology roadmaps.

### 2. Data Quality

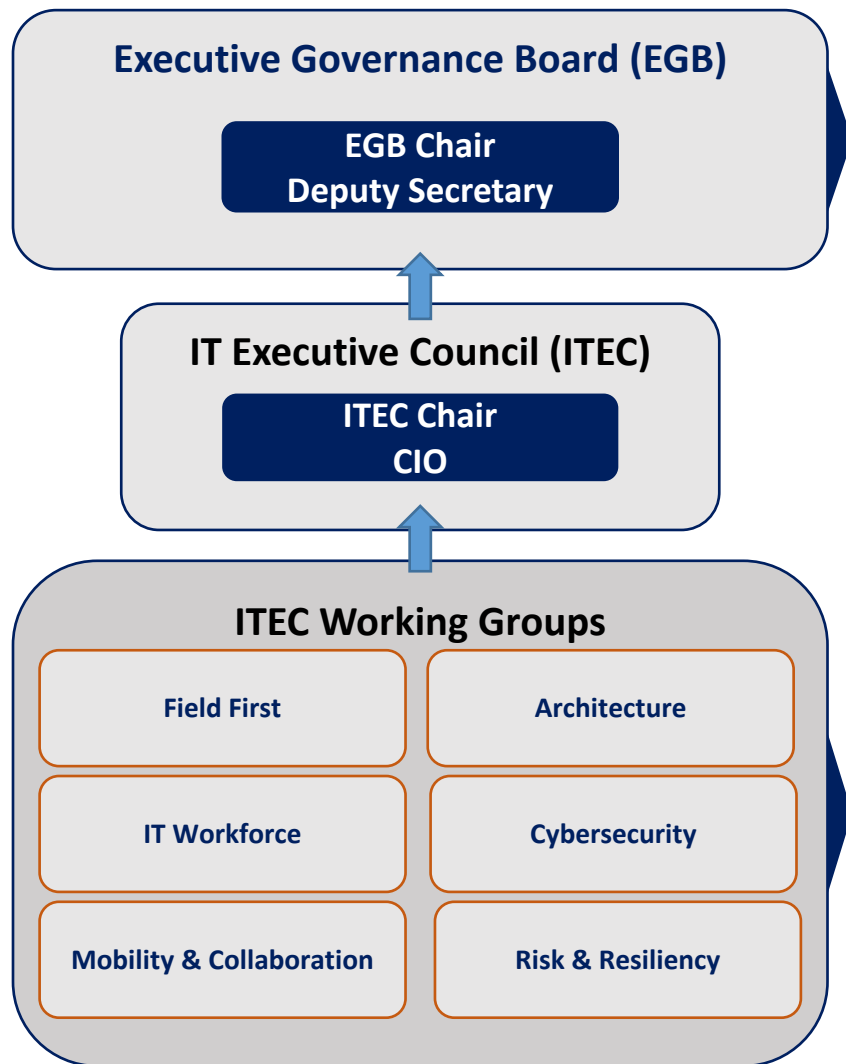
- The Department needs to improve the quality, completeness, and accuracy of data to realize the full benefit of data analytics and other advanced decision-making tools.

### 3. Cybersecurity

- The Department needs to improve its ability to address expanding cyberthreats in an ever-evolving technology landscape.

# Leadership & Implementation Team

## The IT Executive Council Provides Comprehensive Oversight and Addresses IT Challenges



### Executive Governance Board (EGB)

- The EGB is a forum for senior leaders to discuss strategic issues and provide input into enterprise-level decisions on a regular basis
- Chaired by the Deputy Secretary or Undersecretary (U/S) for Management (M), it provides transparency, agility, and alignment of resources with priorities across the Department
- Established strategic management priorities (M High Five) to support the Secretary's vision
- Support IT programs to drive innovation, operational efficiency and cybersecurity

### IT Executive Council (ITEC) and Working Groups

#### OVERVIEW:

- Established under authority of the Department's Chief Information Officer (CIO)
- Develops action plans to address IT challenges and gaps
- Develops solutions and opportunities for collaboration that impact IT decision-making
- Encompasses myriad of IT areas including IT planning, IT funding, architecture, cybersecurity, workforce strategy, and operations

#### GOALS:

- Aligns with Secretary's vision and diplomatic mission
- Improves IT decision-making and enterprise coordination
- Aligns to the M High Five

#### MEMBERSHIP:

- Cross-section of Department stakeholders/perspectives
- Agile focus on evolving needs

# Management Priorities



## Technology

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



## Data & Analytics

– “Enable data-informed decision-making”



## Excellence & Innovation

– “Optimize & continuously improve the customer experience



## Security & Infrastructure

– “Protect our people & assets”



## Talent

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

# Goal Structure and Strategies

**Goal:** Enhance the effectiveness of the Department’s IT portfolio through increased productivity, usability, security, and transparency; ensuring that all IT services and solutions are aligned to the mission of the Department..

 <b>Secure, Modernized IT Infrastructure</b>	 <b>Field First IT</b>	 <b>IT Operational Excellence</b>	 <b>Advanced Decision Support</b>
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## Strategies

<ul style="list-style-type: none"> <li>✓ Strengthen and Streamline Cyber Operations</li> <li>✓ Leverage the enterprise IDMS/ ICAM solution</li> </ul>	<ul style="list-style-type: none"> <li>✓ Modernize Post Infrastructure modernized to Support Smart Mission, WiFi, Mobility, and Cloud Computing</li> </ul>	<ul style="list-style-type: none"> <li>✓ Improve the quality, completeness, and accuracy of data and systems of record used to support IT investment prioritization and decision-making</li> </ul>	<ul style="list-style-type: none"> <li>✓ Implement an automated an IT asset system of record</li> <li>✓ AI/Predictive Modeling initiatives</li> </ul>
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## Key Indicators

<ul style="list-style-type: none"> <li>✓ Percentage of systems that leverage the enterprise IDMS/ICAM solution</li> <li>✓ Percentage of FISMA reportable systems that have an ATO</li> </ul>	<ul style="list-style-type: none"> <li>✓ Percentage of Posts that have WiFi enabled to support SMART Mission</li> </ul>	<ul style="list-style-type: none"> <li>✓ Percentage of Bureau Executives that annually certify that their reported IT investments are accurate, strategically aligned, and meet privacy, cybersecurity framework, and incremental development requirements</li> </ul>	<ul style="list-style-type: none"> <li>✓ Percentage of network environments, with automated discovery, reporting IT assets to an Enterprise Configuration Management Data Base (CMDB) repository to support federal reporting requirements and advanced decision-making</li> <li>✓ Develop and pilot AI/Predictive Modeling initiatives.</li> </ul>
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# Summary of Progress – Q1 & Q2 FY20

- The Department met all milestones for the Q1 and Q2 reporting period
- All Q3 milestones are on track for successful completion
  - ✓ Current and ongoing travel bans and funding challenges due to COVID-19 may impede the Department's ability to meet future milestones.
- Major accomplishments for Q1 and Q2 include:
  - ✓ Deployed Cloud iDaaS component of the State Enterprise Identity, Credential and Access Management solution within the Foreign Affairs Network (FAN)
  - ✓ Initiated Overseas Enabling Baseline Technology project to define minimum standard of IT infrastructure and capabilities at each Post
  - ✓ The majority of Bureau Executives have certified some level of accuracy and completeness of data reported on IT investments including privacy, cybersecurity, and incremental development initiatives
  - ✓ Established a CMDB priority project and implemented discovery on four of the seven network environments
  - ✓ Launched Robotic Process Automation (RPA) and Hyper Automation efforts, including evaluating, testing, implementing prototypes that leverage third-party products and platform level AI tools

# Key Milestones

Secure, Modernized IT Infrastructure			
Key Milestone	Due Date	Status	Comments
Implement IDMS/ICAM on 2 cloud platforms/applications	Q1 FY20	Completed	<ul style="list-style-type: none"> <li>Successfully deployed Cloud iDaaS component of the State Enterprise Identity, Credential and Access Management solution within the FAN</li> </ul>
Implement IDMS/ICAM on 3 cloud platforms/applications	Q2 FY20	Completed	<ul style="list-style-type: none"> <li>Successfully deployed Cloud iDaaS component of the State Enterprise Identity, Credential and Access Management solution with WebEx and myData</li> </ul>
Accelerate processing of ATO declarations for the Department's IT systems risk profiles (high, moderate, low)	Q3 FY20	On Track	<ul style="list-style-type: none"> <li>Accelerated processing of ATO declarations for the Department's IT systems rated with a low security risk profile</li> </ul>
Implement IDMS/ICAM on 5 more cloud platforms/applications for a total of 10	Q4 FY20	On Track	
Implement IDMS/ICAM on 3 cloud platforms/applications	Q1 FY21	On Track	
Implement IDMS/ICAM on 3 cloud platforms/applications	Q2 FY21	On Track	
Implement IDMS/ICAM on 4 additional cloud platforms/applications for a total of 20 across the enterprise	Q3 FY21	On Track	<ul style="list-style-type: none"> <li>Successful completion depends in large on legacy systems migrating to Cloud-based solutions</li> </ul>
All FISMA reportable systems have current Authority To Operate (ATO)	Q4 FY21	On Track	<ul style="list-style-type: none"> <li>New systems are introduced periodically, and legacy system are phased out, impacting the backlog and percentage of ATOs</li> </ul>

# Key Milestones

Field First IT			
Key Milestone	Due Date	Status	Comments
Upgrade infrastructure at 10 posts to support WiFi, mobility, and cloud	Q1 FY20	Completed	
Upgrade infrastructure at 20 posts to support WiFi, mobility, and cloud	Q2 FY20	Completed	
Implement overseas focused SMART Mission based on user demand and requirements	Q3 FY20	On Track	<ul style="list-style-type: none"> <li>Overseas Enabling Baseline Technology project initiated to define minimum standard of IT infrastructure and capabilities at each Post</li> <li>Completed Initial Post Technology Baseline and Gap Analysis</li> </ul>
Upgrade infrastructure at 30 posts to support WiFi, mobility, and cloud	Q4 FY20	On Track	
Upgrade infrastructure at 20 posts to support WiFi, mobility, and cloud	Q1 FY21	On Track	
Upgrade infrastructure at 20 posts to support WiFi, mobility, and cloud	Q2 FY21	On Track	
Upgrade infrastructure at 15 posts to support WiFi, mobility, and cloud	Q3 FY21	On Track	
Upgrade infrastructure at 15 Posts for a total of 130 Posts' upgraded to support WiFi, mobility, and cloud	Q4 FY21	On Track	<ul style="list-style-type: none"> <li>Host country's Internet capacity may impact the ability to successfully complete this milestone</li> </ul>



# Key Milestones

IT Operational Excellence			
Key Milestone	Due Date	Status	Comments
IT Executive Council (ITEC) established and co-created with participating bureaus	Q1 FY20	Completed	<ul style="list-style-type: none"> <li>Governance structure for CIO to oversee all Department IT</li> </ul>
All Department IT CPIC investment are certified to be accurate by the Bureau's executive	Q4 FY20	On Track	<ul style="list-style-type: none"> <li>The majority of Bureau Executives have certified some level of accuracy and completeness of data reported on IT investments including privacy, cybersecurity, and development initiatives</li> </ul>
Draft Key IT service delivery processes	Q1 FY21	On Track	
Create Agile mission plan for Department IT service providers to address backlog of user IT needs	Q2 FY21	On Track	
Create End-to-End Metrics for all IT Business Processes	Q4 FY21	On Track	

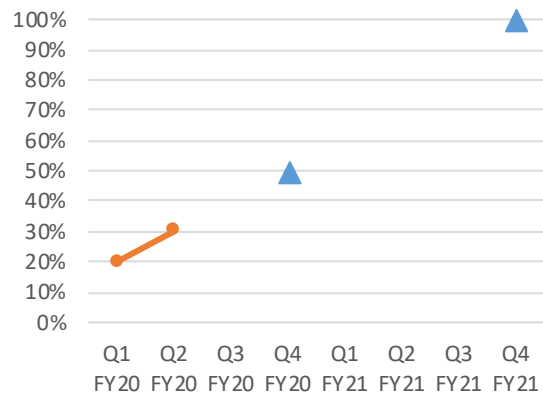
# Key Milestones

Advanced Decision Support			
Key Milestone	Due Date	Status	Comments
Begin Robotic Process Automation piloting effort	Q2 FY20	Completed	<ul style="list-style-type: none"> <li>Launched Robotic Process Automation (RPA) and Hyper Automation efforts, including evaluating, testing, implementing prototypes that leverage third-party products and platform level AI tools</li> </ul>
Stand up RPA training environment and begin obtaining an enterprise license	Q3 FY20	On Track	
Submit ATO for Robotic Process Automation. Create training and provisioning processes for RPA	Q4 FY20	On Track	
Submit ATO package for Google Artificial Intelligence tools and work with early adopters to enhance capabilities	Q1 FY21	On Track	
Implement an automated IT Asset System of Record	Q2 FY21	On Track	<ul style="list-style-type: none"> <li>Established a CMDB priority project and implemented discovery on four of the seven network environments</li> </ul>
Submit ATO for Amazon and Microsoft AI Cloud AI tools and create user guides and training materials	Q3 FY21	On Track	
Continue to identify requirements for advancing AI use in the Department. FSI develops training programs.	Q4 FY21	On Track	

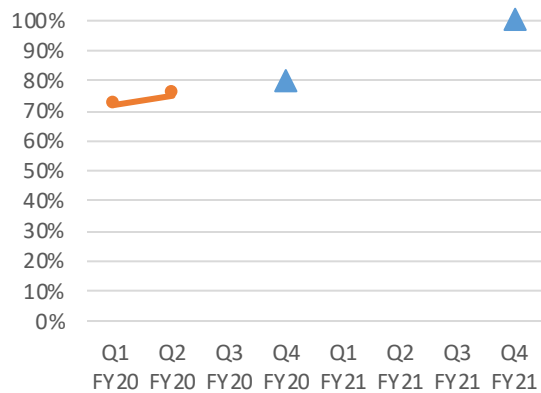
# Key Indicators

Indicator	Current Baseline	FY 2020 Target	FY 2021 Target
Secure, Modernized IT Infrastructure			
Percentage of systems that leverage the enterprise IDMS/ICAM solution <i>(Reporting period planning target is 20 systems)</i>	20%	50%	100%
Percentage of FISMA reportable systems that have an ATO <i>(Represents one of OMB's CAP Goals reported through FISMA/FITARA)</i>	72%	80%	100%
Field First IT			
Percentage of Posts that have WiFi enabled to support SMART Mission <i>(Reporting period target is 130 posts out of total of 280 posts worldwide)</i>	14%	22%	47%
IT Operational Excellence			
Percentage of Bureau Executives that annually certify that their reported IT investments are accurate, strategically aligned, and meet privacy, cybersecurity framework, and incremental development requirements <i>(Reporting period target is all Bureaus with IT budgetary resources – must be recertified each year)</i>	89%	100%	100%
Advanced Decision Support			
Percentage of network environments, with automated discovery, reporting IT assets to an Enterprise Configuration Management Data Base (CMDB) repository to support federal reporting requirements and advanced decision-making <i>(Reporting period target is nine network environment)</i>	25%	40%	100%
Develop and pilot AI/Predictive Modeling initiatives <i>(Reporting period target is 10 pilots or solutions)</i>	20%	50%	100%

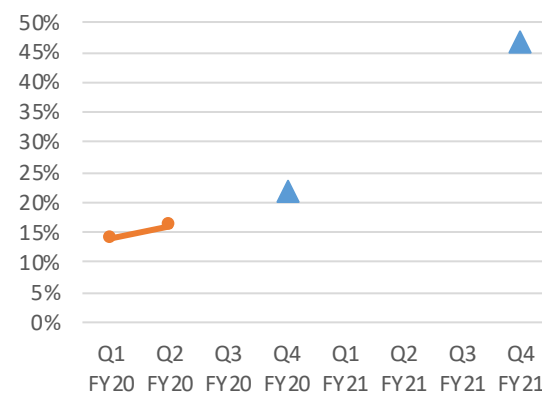
# Key Indicators



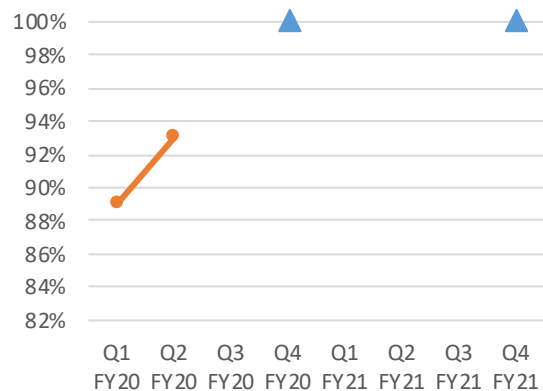
Percentage of systems that leverage the enterprise IDMS/ICAM solution



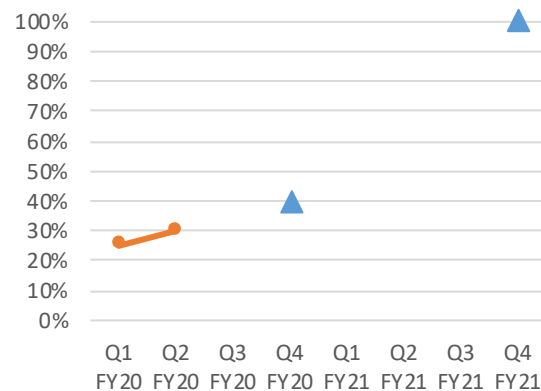
Percentage of FISMA reportable systems that have an ATO



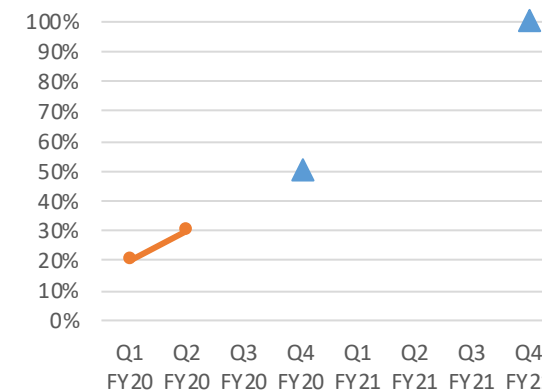
Percentage of posts that have WiFi enabled to support SMART Mission



Percentage of Bureau Executives that annually certify that their reported IT investments are accurate, strategically aligned, and meet privacy, cybersecurity framework, and incremental development requirements



Percentage of network environments, with automated discovery, reporting IT assets to an Enterprise Configuration Management Data Base (CMDB) repository to support federal reporting requirements and advanced decision-making



Develop and pilot AI/Predictive Modeling initiatives

# Data Accuracy and Reliability

Data Source	Accuracy	Reliability	Notes
<b><u>Goal: Secure, Modernized IT Infrastructure</u></b>			
• iMatrix	Mod	High	Process improvement will improve level of accuracy
• FISMA	Mod	High	DHS quarterly Cybersecurity Risk Management Assessment report
• CMDB	N/A	N/A	Implementation Initiative underway
• Xacta	High	Mod	New systems captured - retroactive entry of existing data on-going
• Baseline Enabling IT Dashboard	Mod	Mod	Implementation and refinement of dashboard and status on-going
<b><u>Goal: Field First IT</u></b>			
• Baseline Enabling IT Dashboard	Mod	Mod	Implementation and refinement of dashboard and status on-going
• iMatrix	Mod	High	Process improvement will improve level of accuracy
• Sybermetrics	High	Mod	Aggregates ticket and performance data from multiple sources
<b><u>Goal: IT Operational Excellence</u></b>			
• Baseline Enabling IT Dashboard	Mod	Mod	Implementation and Refinement of dashboard and status on-going
• iMatrix	Mod	High	Process improvement will improve level of accuracy
• Sybermetrics	High	Mod	Aggregates ticket and performance data from multiple sources
<b><u>Goal: Advanced Decision Support</u></b>			
• iMatrix	Mod	High	Process improvement will improve level of accuracy
• Center for Analytics (CfA)	TBD	TBD	Working with MSS Office on integrating disparate source data with CfA
• Apptio	N/A	N/A	Initiated pilot for generating TBM presentation of portfolio data

# Additional Information

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## **Contributing Programs**

### Organizations:

- Bureau of Information Resource Management (IRM); IT Executive Council (IT Leadership Stakeholders across the Department of State)

### Program Goals:

- (1) Secure, Modernized IT Infrastructure, (2) Field First IT, (3) IT Operational Excellence, and (4) Advanced Decision Support

### Regulations:

- E-Government Act (eGov), Federal IT Acquisition Reform Act (FITARA), Clinger-Cohen Act (CCA), Modernizing Government Technology Act (MGT), Federal Information Security Management Act (FISMA), Executive Order (EO) 13800: *Strengthening the Cybersecurity of Federal Networks and Critical Infrastructure*, Report to the President on Federal IT Modernization

### Policies:

- 1 FAM 270, 5 FAM, 12 FAM 600

### Other Federal Activities:

- President's Management Agenda (PMA), Foreign Affairs Cloud Environment Technology (FACET), Foreign Affairs Network (FAN), Strategic Sourcing, Enterprise Mobile Management (EMM) Modernization

## **Stakeholder / Congressional Consultations**

IRM regularly meets with OMB's eGov office reporting on these and other IT modernization initiatives and upon request briefs Senate and House committees.