NTIS Advisory Board Meeting

June 29, 2020
## Agenda

### I. NTIS Mission and Operational Update

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Participants</th>
</tr>
</thead>
</table>
| 1:00 PM | Call to Order and Introductions of Board Members | • Greg Capella, Deputy Director and DFO;  
• Dr. Ajit Gaddam, Advisory Board Chair |
| 1:30 PM | Director's Update                            | Avi Bender, Director, NTIS, US Department of Commerce                        |
| 2:00 PM | Operations of the Service and Lines of Business Overview | • Greg Capella, Deputy Director  
• Elizabeth Shaw, Office of Program Development  
• Wayne Strickland, Office of Program Management  
• Dr. Chakib Chraibi, Office of Data Services  
• Allison McCall, Acting Chief Information Officer  
• Andrea Patterson, Deputy Chief Financial Officer |
<p>| 2:50 PM | 10 minute break                              |                                                                              |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Agenda Item</th>
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</thead>
<tbody>
<tr>
<td>3:00 PM</td>
<td>Advisory Board Discussion with NTIS</td>
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<tr>
<td></td>
<td>• Progress on implementing the new data mission</td>
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<td></td>
<td>• Guidance on the operation of the Service</td>
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<tr>
<td>4:00 PM</td>
<td>Review Feedback and Action Items</td>
</tr>
<tr>
<td>4:15 PM</td>
<td>Member Wrap Up Discussion and Public Comment</td>
</tr>
</tbody>
</table>

I. Meeting Adjourns 4:30 PM
Call to Order and Introductions of Board Members

• Dr. Ajit Gaddam, Advisory Board Chair

• Mr. Aaron D. Burciaga

• Ms. Claire L. Walsh

• Ms. Diana M. Zavala
Overview

NTIS is pleased to meet with our Advisory Board to discuss our FY20 YTD accomplishments and challenges.

NTIS is enabling data driven innovation across the Federal government through its unique Joint Venture Partnership Authority.

We look forward to a discussion with our Board on several topics including:

• Strategies to achieve great customer demand
• Growth strategies, as a fee for service organization, during this global pandemic
• Extracting greater value from our NTRL
• NTIS successfully executed its Continuity of Operations Plan (COOP) in early March 2019 and operations continue today at a maximum telework status.

• NTIS FY20 YTD Revenue is at $35.1M with a projected year end revenue of $76.9M. Despite the global pandemic that is affecting our federal data services market, FY 20 will be our best year since the launch of NTIS 2.0 in 2016.

• NTIS has been reorganized around three business units that include our Subscription and Assistive Data Services, the Data Science Analytic Services, and the NTRL Repository Information Service.

• We now have an impactful portfolio of Joint Venture Partnership projects that are driving innovation across the Federal government.

• Our business model continues to be a Value-Add Reseller with emphasis on the Value Add. We succeed when we partner with the agency by working together to own the outcome of the customer relationship and customer demand.
• Net new business (new accounts) for NTIS in FY20 is $0 YTD. Revenue from existing accounts and follow on work is $35.1M YTD.

• For all new business, the NTIS is considering a revenue share increase of 10% and would like the Advisory Board input on this approach.

• NTIS headcount is now at 40 staff and this represents a 33% reduction from last year and an overall 60% reduction since FY16.

• The NTIS cloud migration, and further provisioning of our IT infrastructure in the cloud, positioned NTIS to support both its internal and customer staff during the Covid-19 outbreak and into the future. Transition to CBS (financials) is moving forward.

• Outreach efforts are very positive as we plan post Covid-19. NTIS has been selected as an ACT-IAC Ignite Innovation Finalist. The ACT-IAC, AFCEA, and ATARC have reached out to NTIS to participate with our client agencies at their high visibility virtual educational events.

• On December 13th, 2019 NTIS published a Federal Register Notice inviting new private sector partner to join NTIS.
Operations of the Service and Lines of Business Overview
NTIS Organization

Avi Bender
Director
Greg Capella
Deputy

George E. Jenkins
Chief Financial Officer
Andrea Patterson
Deputy

Allison McCall
Acting Chief Information Officer

Chakib Chraibi
(Acting)
Associate Director, Data Services

Elizabeth Shaw
Associate Director, Program Development

Wayne Strickland
Acting Associate Director, Program Management
NTIS Staffing Update

- NTIS offered multiple opportunities to voluntarily reduce our staff leveraging Voluntary Early Retirement Authority (VERA) and Voluntary Separation Incentive Program (VSIP) in 2018-2019
  - NTIS had significant participation in these programs and reduced staffing from 100 in September 2016, to 60 Federal Staff as of July 2019
- NTIS also worked to retrain staff to undertake new roles and offset contracted support
  - This was successful for a number of staff
- The staff reduction significantly improved the financial situation for NTIS but large operating losses still were forecast
  - After these incentives and training opportunities NTIS still had staff filling legacy roles that were no longer required or were not essential given the financial situation
- NTIS undertook a Reduction in Force (RIF) in January 2020
  - All staff that desired to be placed in new roles were placed in new roles
- NTIS new staffing level is 40 is Federal Staff
## NTIS - Data Services Lines of Business

### DATA SERVICE OFFERINGS

<table>
<thead>
<tr>
<th>Lines of Business</th>
<th>Authority</th>
<th>Business Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Science Innovation Services</td>
<td>JVP 1.0 Continuation – Section 504 Data Dissemination Services</td>
<td>New JVP Mission (FRN 2016)</td>
</tr>
<tr>
<td>Data Accessibility Services</td>
<td>Data Subscription Services (LADMF, DEA)</td>
<td>Technical Clearinghouse (NTRL)</td>
</tr>
<tr>
<td>Data Subscription Services (LADMF, DEA)</td>
<td>Legacy Business</td>
<td>Phased-Out Hosted Data Services</td>
</tr>
<tr>
<td>Mandated/Continued Operations</td>
<td></td>
<td></td>
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<tr>
<td>Mandated/15 USC 3704b</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PROJECT LIFECYCLE MANAGEMENT

### BUSINESS DEVELOPMENT

### CLIENT DELIVERY

- Data Center
- IT Support
- Vendor Management
- HR
- Finance
- Contract
- Facilities Management

### SUPPORT FUNCTIONS

- Executive Management
- Data Scientists
- Project Managers
- Business Developers
- Communications
- Legal
# Office of Program Development Team

## Elizabeth Shaw
Associate Director, Office Program Development (OPD)

**Vacant Position**
Customer Engagement Manager
- DoD opportunities
- DoD PM projects
- Lead for DoD relationship/ops to include Suicide and Opioid
- Lead on Award programs
- Lead on OMB plan for NTIS
- Lead OPD support on customer workshops

## Patricia Gresham*
Lead, Customer Engagement Manager
- Back up to the Associate Director
- Lead on Customer relationship management and strategies
- Lead on OMB plan for NTIS
- Lead on OPD project development training and interim back-up support
- Advisory on the pre-sales engineering

## Masood (Bobby) Khondker*
Customer Engagement Manager
- Customer Engagement Manager
- Lead for HHS/FDA/CDC, VA, DoD DoC, Defense Nuclear, Energy, EPA, FCC, USAID back-up
- Leads for Healthcare to include suicide and opioid
- Lead for Business Dev. Processes & Intra-net site
- Lead for analysis and tracking of opportunities
- Lead for assistive technology ops and strategies

## Aretha Carter*
Customer Engagement Manager
- Lead on DHS, Justice, DoT, DOI, Dept of ED Bureau of Reclamation, FTC, NASA relationship/ops
- Lead on Customer Communication and Acquisition Excellent Project (or ACT-IAC innovation project)
- Lead on agency research to include RFI
- Lead on OIG and Fraud
- Back-up for customer workshops to include sales support, list, and conferences
- Back-up to Bobby’s portfolio

## Main Areas of Focus

<table>
<thead>
<tr>
<th>Data Solutions (2.0 projects)</th>
<th>Data Transformation and Accessibility</th>
<th>Federal Data Products</th>
<th>Future Innovations</th>
</tr>
</thead>
</table>

* Currently, the OPD team is supporting NTIS as Program Manager for OPM, DHS PARM, and DHS NRMC projects
Office of Program Development

Supporting the NTIS mission by assisting with the delivery of government solutions in the 21st Century and supporting the national need for leveraging data as a strategic asset.

• Works collaboratively with Office of Data Services and Office of Program Management
• Maintain a continuous relationship with current and past customer base
• Engages with new customers through a problem-solving methodology and market research
• Assists with the development of training and awareness such as workshops and the annual ACT-IAC and AFCEA event
• Supports the three areas within the President’s Management Agenda (PMA) of Information Technology Modernization; Data, Accountability and Transparency; and People and the Workforce of the Future
• Adjust strategies to support COVID-19 and supply chain related assistance
Opportunities

Transformation Architect
Nurture Existing Relationships: Become an Extension of the Agency

- Advise and train agencies on latest innovations
- Understand the agency’s vision and how NTIS data solutions can assist
- Identify and connect agencies with other agencies
- Share availability for response during COVID-19

Grow Within the Account

- Provide stellar customer service
- Listen to issues and provide proactive solutions
- Participate as a member of the three person team
- Ask for referrals
- Remain flexible during the pandemic offering solutions

Identify & Reach New Accounts/Relationships

- Attend virtual events
- Participate in speaking events
- Join associations and working groups
- Research articles and news
- Share efforts and updates with other agencies

Strengthen Opportunities

- DHS NRMC
- DHS PARM
- OPM
- VA

Grow Opportunities

- USAID
- HHS
- OPM
- DOE

Identify Opportunities

- State AI Office
- DOE AI transformation office
- DHS COVID
- OPM DHS DOJ elections
- VA Assistive Technology
# NTIS Pipeline

## FY 2020 Outreach Highlights

<table>
<thead>
<tr>
<th>Agency</th>
<th>Lead Source</th>
<th>Opportunity</th>
<th>Pipeline Highlights</th>
</tr>
</thead>
<tbody>
<tr>
<td>DoD</td>
<td>Past Relationships/Meetings/Conferences/Cold Calls</td>
<td>27 Leads/Opportunities</td>
<td>Potential JAIC work for 2.0; FMR CDO opportunity; Suicide</td>
</tr>
<tr>
<td>DHS</td>
<td>Past Relationships/Meetings/Conferences/Articles/Cold Calls</td>
<td>8 Leads/Opportunities</td>
<td>Supply chain and COVID-related; Two new PARM projects; Assistive Technology; voting</td>
</tr>
<tr>
<td>DOE</td>
<td>Past Relationships/Meetings/Conferences/Articles/Cold Calls</td>
<td>6 Leads/Opportunities</td>
<td>Follow-up in existing accounts; meeting with AI and Technology Department</td>
</tr>
<tr>
<td>DoT</td>
<td>Past Relationships/Meetings/Conferences/Articles/Cold Calls</td>
<td>15 Leads/Opportunities</td>
<td>Reached out to new CIO</td>
</tr>
<tr>
<td>FDA, HHS, NIH, CMS</td>
<td>Past Relationships/Meetings/Conferences/Articles/Cold Calls</td>
<td>7 Leads/Opportunities</td>
<td>COVID-related opps, Suicide, Opioids and assistance with analytics, etc. in addition to other data solutions</td>
</tr>
<tr>
<td>HUD</td>
<td>Article/ Research</td>
<td>5 Leads/Opportunities</td>
<td>COVID-related opps and assistance with analytics, etc. in addition to other data solutions</td>
</tr>
<tr>
<td>IRS/Treasury</td>
<td>Article/ Research/event meeting</td>
<td>6 Leads/Opportunities</td>
<td>Assistive Technology; Pilot IRS;</td>
</tr>
<tr>
<td>OPM</td>
<td>Referral/expansion/voting</td>
<td>3 Leads/Opportunities</td>
<td>Election and expansion on USA Jobs</td>
</tr>
<tr>
<td>VA</td>
<td>Past Relationships/Meetings/Conferences/Articles/Cold Calls</td>
<td>4 Leads/Opportunities</td>
<td>Assistive Technology, Suicide, Opioids and assistance with analytics, etc. in addition to other data solutions</td>
</tr>
<tr>
<td>CIGIE</td>
<td>Past Relationships/Articles/Cold Calls</td>
<td>5 Leads/Opportunities</td>
<td>CARES Act data analysis</td>
</tr>
<tr>
<td>USPTO</td>
<td>Past Relationships/Articles/Cold Calls</td>
<td>4 Leads/Opportunities</td>
<td>Chief Economist data work award of BPA</td>
</tr>
</tbody>
</table>

**Notes**
- Outreach to almost 200 agency contacts
- Outreach includes use of different messaging
- Outreach to agencies that used previous e-training and KM solutions
- Outreach for potential new Assistive Technology projects will have newly developed case study
# Selected Projects

<table>
<thead>
<tr>
<th>AGENCY</th>
<th>PROJECT SCOPE</th>
<th>VALUE</th>
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<tbody>
<tr>
<td>OPM</td>
<td>OPM seeks to improve data access and programmatic use of data collected during the USAJOBS recruitment process; leverage quantitative and qualitative data to determine the highest impact features to deploy to the USAJOBS site; and measure the effectiveness of each software release.</td>
<td>Aiding Government Workforce – Improve human resources and digital records management by leveraging blockchain technology to ensure efficient data management, exchange, and security of records.</td>
</tr>
<tr>
<td>DHS, PARM</td>
<td>PARM, as both a governance, oversight and support agency, maintains responsibilities to mature insights and efficiencies into DHS’s program acquisition performance. The objective of this project is to integrate data from the various PARM components into a PARM knowledge-base management (KM) store capability focused on improving the acquisition lifecycle framework (ALF) governance, oversight reporting, risk management and decisional insights on program acquisitions.</td>
<td>Integrating and Improving Operations Through Data—The project aims to deliver innovative data and processing capabilities to build, monitor, evaluate and improve on the quality, accuracy and predictiveness of acquisition program management capabilities and seamlessly unify data and innovation on digital content and business activities to improve on overall performance efficiencies</td>
</tr>
<tr>
<td>DHS, NRMC</td>
<td>The National Risk Management Center (NRMC) seeks innovative technologies to defend against digital threats to our nation’s critical infrastructure. NRMC is focused on seven areas, Analytic Research and Innovation; Systems Integration; Development and Deployment; Modelling Capability Transition Environment; Life Cycle Support; Research and Develop Innovative Approaches and Collaboration with the Stakeholders</td>
<td>Protecting Critical Infrastructure Opportunity expanded and analysis for COVID-19 related data was identified</td>
</tr>
<tr>
<td>VA, 504</td>
<td>The Veteran’s Affairs office is seeking solutions for hard copy, ailing to insure access for the visually impaired. Four formats will be available in Braille, Audio, CD and Large Print</td>
<td>Providing Access to All Veterans Expanded access of correspondence for the visually impaired</td>
</tr>
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</table>
Innovation and Data Awareness Through Partnerships

• Joined with ACT – IAC for Sept 2, 2020 event
  Data Driven AI Innovations: Accelerating Results Through Federal and Private Sector Partnerships
  Data-driven innovations provide unprecedented opportunities to address mission-critical challenges and to transform government operations. This session will cut through the hype and refocus our attention on the art of the possible. How are federal agencies partnering with the private sector to accelerate time to market and value? How can agencies leverage data as a strategic asset, through capabilities such as AI, to achieve mission outcome? The session will cover actual use cases by innovators and practitioners who are delivering data driven mission outcome at their organizations today.

• Joined with AFCEA for Tech Summit on Oct 14-15, 2020
  Focus on the Enterprise:
  Securing the Enterprise - Securing the New Normal / Ensuring Enterprise Security for a Remote Workforce
  Enabling the Enterprise Data as foundation to AI/ML;
  Modernizing the Enterprise - Modernizing IT to Swiftly Address Customers in the New Normal
Securely develop programs for capturing and transforming raw metadata (record specs) with no standardized architecture from many diverse sources into a single unified format for analytic capability and accessibility;

Performing quality control/quality assurance review in both English and Spanish (as appropriate) of the transformed data to ensure the integrity of the manipulated data and taking appropriate corrective actions to cleanse the data files when necessary;

Producing final data output in assistive technology alternate formats such as braille, large print, data or audio CDs to provide greater accessibility to the special needs population (the final end-user);

Ensure program implementation, operations and production schedules.

Developing, tracking and communicating systems management to insure no loss of data and to identify the occurrence of any anomalous activity in the migration and transformation processes; and

Performing all tasks within strict security guidelines in a secure, protected environment provided by NTIS to insure the privacy of the PII data.
The NTIS-JVP Framework – More than New Data Points
Delivering Outcomes that Benefit Our Nation and the World

<table>
<thead>
<tr>
<th>PARTNER</th>
<th>CHALLENGE</th>
<th>BENEFIT</th>
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<tbody>
<tr>
<td>DEA</td>
<td>DEA seeks operational support to maintain databases of persons and</td>
<td>Disseminating Controlled Substance Information – managed subscription services and database hosting operations for DEA’s customers, as part of DEA’s efforts to control the abuse and misuse of controlled substances and chemicals used in producing some over-the-counter drugs.</td>
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<tr>
<td></td>
<td>organizations certified to handle controlled substances under the</td>
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<tr>
<td></td>
<td>Controlled Substances Act.</td>
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<tr>
<td>SSA</td>
<td>SSA seeks to maintain the Limited Access Death Master File (LADMF) which</td>
<td>Delivering Fiduciary Data – As the only authorized distributor of LADMF, NTIS provides managed subscription services for SSA’s customers, which include government agencies, financial institutions and credit reporting organizations. In compliance with the Bipartisan Budget Act of 2013, NTIS ensures that only certified parties may access the LADMF system.</td>
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<tr>
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<td>contains over 91 million records of deaths that have been reported to SSA</td>
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<tr>
<td></td>
<td>from 1936 to present.</td>
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<tr>
<td>Federal Science</td>
<td>As a Congressionally mandated clearinghouse, NTIS operates the National</td>
<td>Disseminating Federal STEM Research – NTRL holds approximately 3 million publications, provides free public access to its holdings of scientific, technical, engineering, and mathematics (STEM) information and includes a comprehensive bibliographic search feature.</td>
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<tr>
<td>Agencies</td>
<td>Technical Reports Library (NTRL), which offers the largest publicly</td>
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<td>available U.S. government-sponsored collection of scientific, technical,</td>
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<tr>
<td></td>
<td>engineering and mathematics (STEM) information.</td>
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Project Examples
# National Technical Reports Library (NTRL)

## Federal Science Agencies and Laboratories

| **Summary** | The National Technical Reports Library (NTRL) is the largest, publicly available U.S. government-sponsored collection of technical and scientific reports. (A clearinghouse of federally funded science and technology reports).  
End User - The NTRL is a useful tool for members of the business, library, government, and academic communities as it provides a solution to locating the results of billions of dollars of federal research.  
Comprehensive - The bibliographic and full-text records vary with the availability of legacy digitization efforts. There are 39 Major Subject Categories and 375 Sub-categories including Aeronautics, Chemistry, Energy, Environment, Health Care, Library & Information Sciences, Mathematics, Medicine & Biology, Physics, and Transportation.  
Public Access Fee - The NTRL is open and freely available worldwide. There are no subscription fees. |
| **Size** | > 3 million publications  
(1945 – present, majority stored on microfiche) |
| **Authority** | • Chapter 23 of Title 15 of the United States Code (15 U.S.C. 1151-1157)  
• American Technology Preeminence Act of 1992 (Public Law 102-245) |
| **Executive Statement** | This is the foundational mission upon which NTIS was built. NTIS continues to be fully supportive of this mission. However since the move to open access for all (2016), NTRL generates no revenue. It operates at a loss, but there have been several impressive years of cost reduction. Also, approximately 2M documents are pending digitization.  
In FY19 and FY20, NTIS will move NTRL into a cloud infrastructure in order to further reduce costs. Beginning efforts with Fairfax County Public Schools (FCPS) Work-based Learning Program (WLP) to digitize microfiche to increase document availability while reducing costs. |
## Controlled Substances Act Database (CSA)

<table>
<thead>
<tr>
<th>Drug Enforcement Administration</th>
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<tbody>
<tr>
<td><strong>Summary</strong></td>
</tr>
<tr>
<td>NTIS disseminates data collected and managed by the Drug Enforcement Administration (DEA) to support its mission. DEA’s CSA Database serves as an authoritative record of proof for individuals and organizations who are certified to handle controlled substances in compliance with the CSA.</td>
</tr>
<tr>
<td><strong>Size</strong></td>
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<tr>
<td>&gt; 1.8 million records</td>
</tr>
<tr>
<td><strong>Authority</strong></td>
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<tr>
<td>• 15 U.S.C. 1151-1157</td>
</tr>
<tr>
<td>• 15 U.S.C. 3704b</td>
</tr>
<tr>
<td><strong>Executive Statement</strong></td>
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<tr>
<td>LADMF and CSA programs provide essential data-service missions that help combat fraud and illegal substances. Historically, both programs received substantive Net Revenues. However, starting in FY17 and continuing through FY20, NTIS created a new software system (NESS) to provide better security and more accurate information for the subscription customers. These improvements, however, resulted in major program cost increases. NTIS is required by law to recoup costs associated with operating these services. Therefore in FY21, NTIS will raise subscription prices in order to recover Net losses.</td>
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## Limited Access Death Master File (LADMF)

<table>
<thead>
<tr>
<th>Social Security Administration</th>
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<tbody>
<tr>
<td><strong>Summary</strong></td>
</tr>
<tr>
<td>NTIS is the only authorized distributor of the LADMF data that is collected and managed by the Social Security Administration. Every organization with fiduciary duties is legally required to check individuals against the LADMF data for fraud prevention.</td>
</tr>
<tr>
<td><strong>Size</strong></td>
</tr>
<tr>
<td>&gt; 91 million records</td>
</tr>
<tr>
<td>(1936 – present)</td>
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<tr>
<td><strong>Authority</strong></td>
</tr>
<tr>
<td>• Bipartisan Budget Act of 2013, Section 203</td>
</tr>
<tr>
<td>• Social Security Act (42 U.S.C. § 1306(b)), Section 1106(b)</td>
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Chakib Chraibi, Ph.D., D.Sc.
Lead Data Scientist

- DOE National Nuclear Security Administration (NNSA)
- DHS:
  - Program Accountability and Risk Management (PARM)
  - National Risk Management Center (NRMC)
- DOL
- VA:
  - Technology Transfer Program (TTP)
  - Veteran Affairs Electronic Determination Aide (VAEDA)

Patrick Lee, Ph.D., P.E.
Lead Data Scientist

- DoD Joint Artificial Intelligence Center (JAIC) Program Manager and Data Scientist
- VA:
  - Technology Transfer Program (TTP)
  - Veteran Affairs Electronic Determination Aide (VAEDA)
- USAID:
  - President’s Malaria Initiative (PMI)
  - Development Data Commons (use case: HIV-AIDS)
- HHS

Main Areas of Focus

- Data Solutions (2.0 projects)
- Merit Review Process
- Opportunity Announcements
- Future Technical Direction
Office of Data Services

Supporting the NTIS mission by serving as a center of excellence for leveraging data as a strategic asset.

• Works collaboratively with Office of Program Development and Office of Program Management
• Helps accelerate the private sector use of government data to develop new and improved data products and services
• Enables both Commerce and other Federal agencies to leverage government data to become more effective and efficient in mission success
NTIS Framework

- Problem Statement
- JVP Selection
- Agile Project Development
Data, Data, Data ....

THE DATA SCIENCE HIERARCHY OF NEEDS

COLLECT

INSTRUMENTATION, LOGGING, SENSORS, EXTERNAL DATA, USER GENERATED CONTENT

MOVE/STORE

RELIABLE DATA FLOW, INFRASTRUCTURE, PIPELINES, ETL, STRUCTURED AND UNSTRUCTURED DATA STORAGE

EXPLORE/TRANSFORM

CLEANING, ANOMALY DETECTION, PREP

AGGREGATE/LABEL

ANALYTICS, METRICS, SEGMENTS, AGGREGATES, FEATURES, TRAINING DATA

LEARN/OPTIMIZE

A/B TESTING, EXPERIMENTATION, SIMPLE ML ALGORITHMS

AI, DEEP LEARNING
Office of the Chief Information Officer

Allison McCall
Acting Chief Information Officer

SECURITY DIVISION
Bilal Baisa
(Acting)
Chief Information Security Officer (CISO)
- Security Assessments and Authorizations
- Continuous Monitoring and CDM
- Privacy and CUI
- Personnel and Physical Security
- Security policy and data calls
- Web, product application support

INFRASTRUCTURE SUPPORT DIVISION
Leigh Anne Levesque
Manager
- Desktop Support and Service Desk
- Telecommunications (Voice and Data)
- SW and HW Support including Alternate Format
- Infrastructure
- IT Inventory
- Infrastructure Policy and data calls
- Financial and legacy application support

PRODUCTION SUPPORT DIVISION
Pad Hosmane
Acting Manager
- Linux and Windows Servers
- Storage
- Backup
- Database administration
- Virtualization
- Cloud migration
- Technical architecture
- Production policy and data calls

Main Areas of Focus
- Support for 2.0 Mission
- Cloud Migration
- Security Enhancement
- NTIS Process Automation
Status Cloud Migration?

- NTIS has begun to migrate its data center platforms (NTIS HQ and Denver) to the Amazon Web Services “Cloud”.
- Denver – completed migration of virtual machines and storage backup
- NTIS HQ – built out Cloud environment (AWS East and West) completed migration of active directory, NTIS web site, and Subscription Unified File Download System. Systems are in test environment awaiting security Authority to Operate (ATO).
- In process – NTRL migration
Expected Benefits for NTIS

• Lower upfront infrastructure investment; Rather than replacing our aging infrastructure, we can modernize by moving to a Cloud-based infrastructure.

• An infrastructure that we are not locked into for years. We can deploy new technologies as they become available. operational cost because you scale only as you grow and only pay for the technologies we use.

• The Cloud has efficient resource utilization and usage-based costing: With utility-style pricing, we will be billed only for the infrastructure that has been used. We are not paying for unused resources. In addition, we can scale up and down as needed. We can create new environments for testing and development scale down when no longer needed.

• Disaster Recovery and Business Continuity. We will have a lower cost options instead of maintaining a physical site. We will take advantage of geo-distribution. We will have a replication of our environment and will be able to switch from AWS East to AWS West in minutes.
Office of Chief Financial Officer

George E. Jenkins
Chief Financial Officer
NIST/NTIS

Andrea Patterson
Deputy, Chief Financial Officer

Caren Scott
Manager, Customer Accounts Division

Vacant
Manager, General Ledger Division

Vacant
Budget Officer

Accountants
Lan Duong
Latoya Harper-Parham
Clyde Sorrell

Accountants
Cynthia Whitted

Budget Analysts
Rosio Harris
Angie Martin

Main Areas of Focus
- Financial Reporting
- Budget Formulation and Execution
- Financial Analysis
- Accounts Payable and Receivable

Leveraging Partnerships with Industry
# Financial Status

**Net Cost as of March 31, 2020**

<table>
<thead>
<tr>
<th>Line of Business</th>
<th>FY20 Actual through March 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Revenue</td>
</tr>
<tr>
<td>Data Science Innovation Services</td>
<td>$12,469,176</td>
</tr>
<tr>
<td>Data Accessibility Services</td>
<td>$17,769,102</td>
</tr>
<tr>
<td>Data Subscription Services</td>
<td>$2,936,832</td>
</tr>
<tr>
<td>Legacy Business</td>
<td>$1,967,864</td>
</tr>
<tr>
<td>Technical Clearinghouse (NTRL)</td>
<td>-$2,020</td>
</tr>
</tbody>
</table>

*Numbers exclude Imputed Financing*
## FY2020 Year End Projection

<table>
<thead>
<tr>
<th>Net Cost (Millions)</th>
<th>FY20 Year End Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$76.9</td>
</tr>
<tr>
<td>Cost</td>
<td>$77.5</td>
</tr>
<tr>
<td>Net</td>
<td>($0.6)</td>
</tr>
</tbody>
</table>
Break
Advisory Board Discussion with NTIS
Review Feedback and Action Items
The following action items were noted in the August 26, 2019 minutes:

1. “NTIS took action to try to understand if there were opportunities for partnership with NOAA on digitization.”

2. “Mr. Capella stated that he would be coordinating the minutes of the meeting internally, and then with Dr. Gaddam. He would then post the minutes on the FACA site provided by GSA.”
Member Wrap Up Discussion and Public Comment
Meeting Adjoums