

NTIS Federal-Private Sector Partnership

Driving IT Modernization at the Intersection of Data and Technology

NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

Department of Commerce

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NTIS Data Joint Venture: Who We Are and What We Do

NTIS is a trusted advisor that provides innovative data services to All Federal agencies, through a fee-for-service joint venture partnership authority (15 USC 3704b) with the private sector.



NTIS delivers benefit to the public by advancing Federal data priorities, promoting economic growth, and enabling operational excellence.

Agency Supply Chains Are a Target Rich Environment for Data Driven Innovation



- Products and Services are created daily
- Process, people, and technology intensive (data synchronization)
- Significant opportunities for process innovation (IT Modernization)

TRUST TRANSPERANCY



Delivering Evidenced Based Decisions for Effective and Efficient Operations

What Common Operational Challenges Do Federal Agencies Face?

WHAT

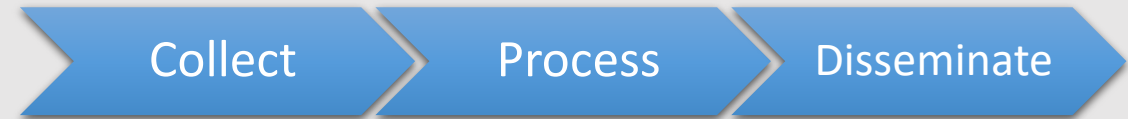
Common Operational (Data) Challenges

- Evidence based decisions
- Transforming business operations
- Transparency and accountability
- Fraud Detection
- Human Resources
- Improper Payments
- Internal controls
- Operational efficiency
- Citizen services (health, grants, safety,..)
- Customs Immigration Services
- Pricing equity (purchasing)
- Food and drug safety
- Emergency Preparedness

HOW

NTIS
VALUE
PROPOSITION

NTIS JVP BUSINESS AND TECHNOLOGY SOLUTION FRAMEWORK



TIMELY ACCESS TO THE SKILLS,RESOURCES,TOOLS,INFRASTRUCTURE

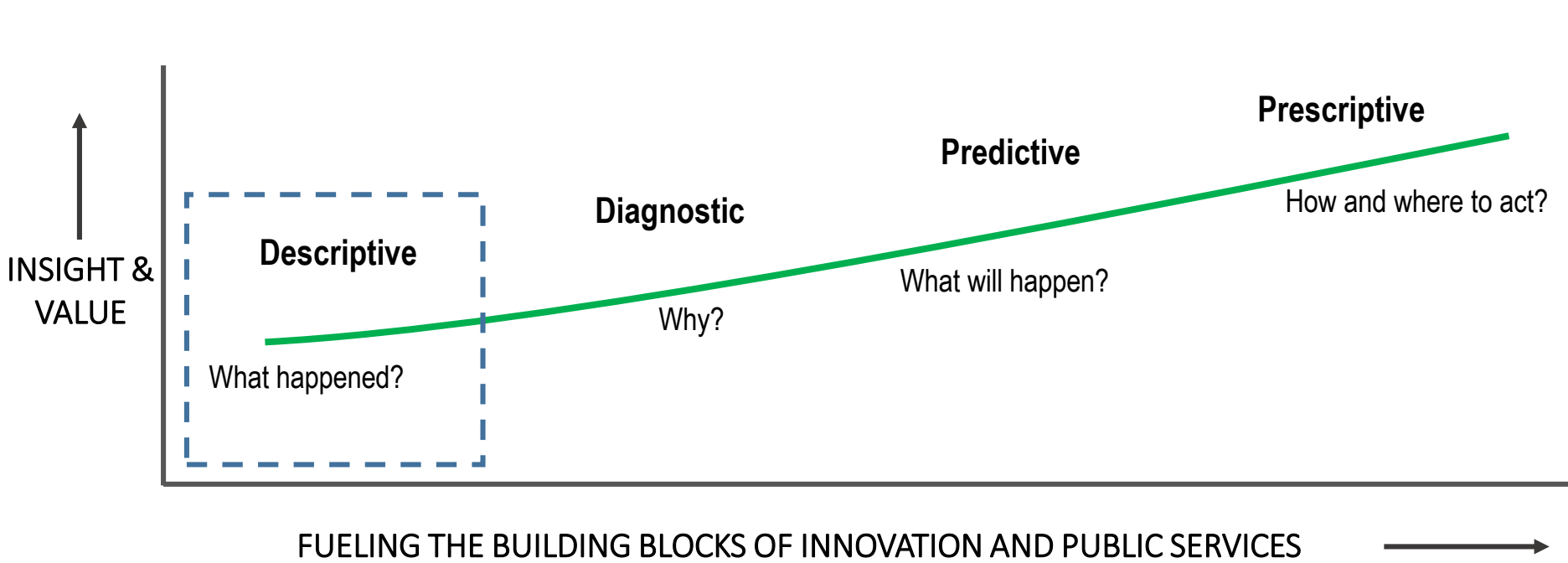
DATA ANALYTICS
DATA COLLECTION
MACHINE LEARNING
AUDIT
DATA INTEROPERABILITY
CLOUD INFRASTRUCTURE
SECURITY/PRIVACY
DATA MINING

VISUALIZATION
DATA DISSEMINATION
STATISTICS
FORENSICS
GEOSPATIAL ANALYTICS
REMOTE SENSING
OPEN SOURCE TOOLS
HIGH PERFORMANCE COMPUTING



CAPACITY TO SCALE, INNOVATE, AND TRANSFORM BUSINESS OPERATIONS

Data Insights Drive Supply Chain Innovation



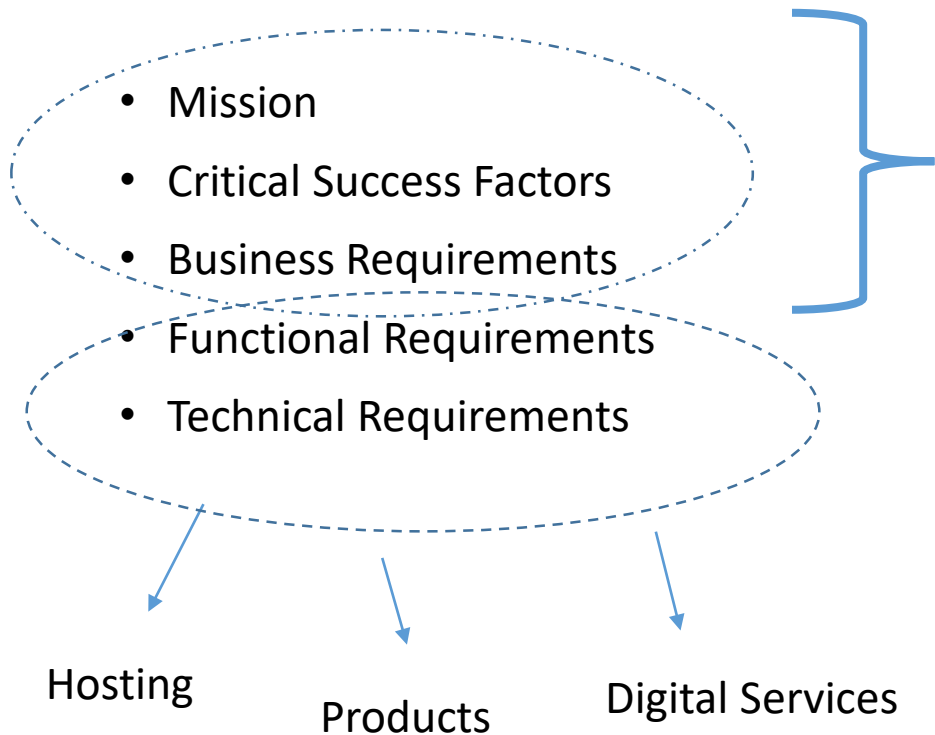
OUTCOME

- New operating models
- Data (open) supplier networks
- Discovery and Innovation
- Trusted and secure networks
- Optimized Business Process
- Smart Cities
- Location based services

The Secret Sauce For Innovation: *An Early Conversation with the Private Sector*

- What problem are you trying to solve?
- What's a good use case that illustrates the outcome?
- What is the Concept of Operation (new operating model) to deliver future use cases for your agency?

NTIS Collaborates with the Agency and the Private Sector to Understand the “Why”



Data as a strategic asset for value creation

Most agencies make costly decisions and do not achieve operational effectiveness and efficiencies because the conversation begins here and within internal silos

USE CASE

Problem

Establish a single authoritative source of information about employees from the time they are hired to the time they leave Federal service. Current employee information resides in multiple databases that are difficult to correlate and present security exposure.

Data Science Approach

Blockchain pilot

Discover-Connect-Synchronize

USE CASE

Problem

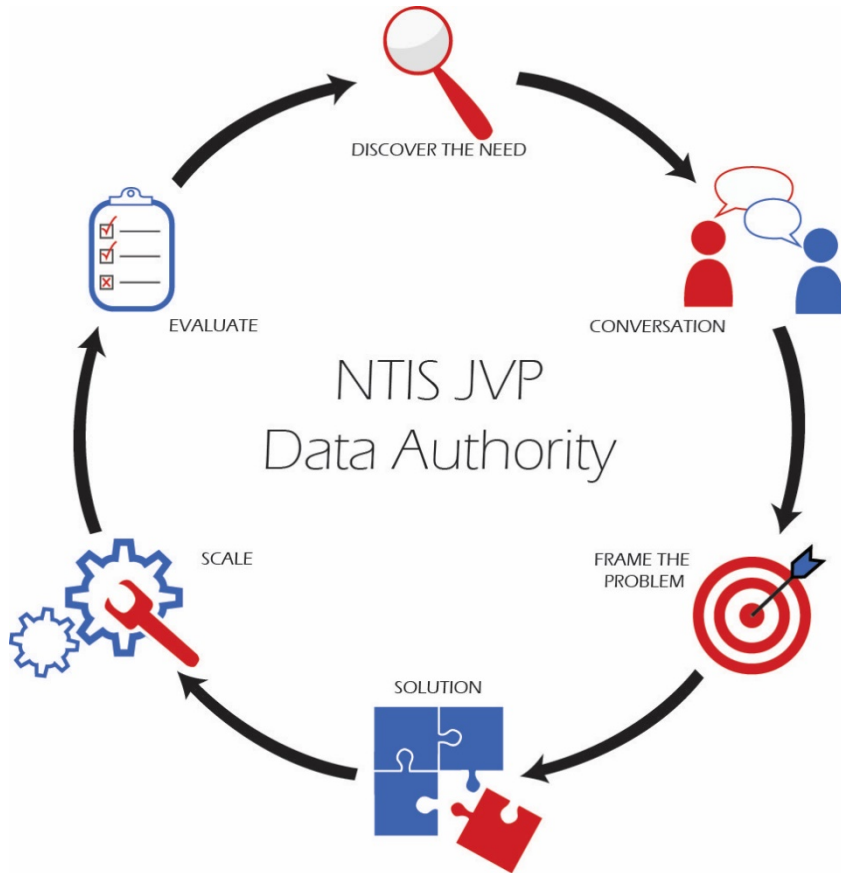
Deliver mission critical health and safety data during national emergencies. The agency currently relies upon numerous data systems that require human interaction. Similar data requirements are also needed to support regulatory review and enforcement functions.

Data Science Approach

Pilot a mobile platform for mission-critical real-time data during national emergencies (medical, food), directly to the field. Provide direct-to-the-public accurate, science-based information addressing medical emergencies. Utilizing advanced techniques in data science, ingestion, data aggregation, correlation, and data governance to streamline processes and procedures

Discover-Connect-Synchronize

Innovation Starts with a Conversation



NTIS Joint Venture Partners

- 1901 Group, LLC
- Arcadia Data, Inc
- ASET Partners Corporation
- Bayes Impact
- Berico Technologies, LLC
- Booz Allen Hamilton, Inc.
- Cherokee Nation Technology Solutions, LLC
- Civis Analytics, Inc.
- data.world
- Deloitte Consulting LLP
- Dun & Bradstreet
- EBO, Inc.
- Enterprise Services LLC
- Environmental Systems Research Institute, Inc.
- Excella Consulting, Inc.
- Hypatia Project LLC
- i3solutions, Inc.
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- ICF Incorporated, LLC
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