



Commerce Data Service

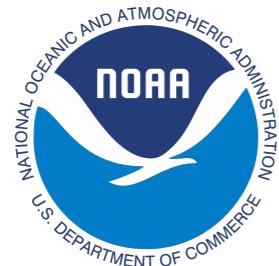
New Employee Handbook

Dr Tyrone Grandison

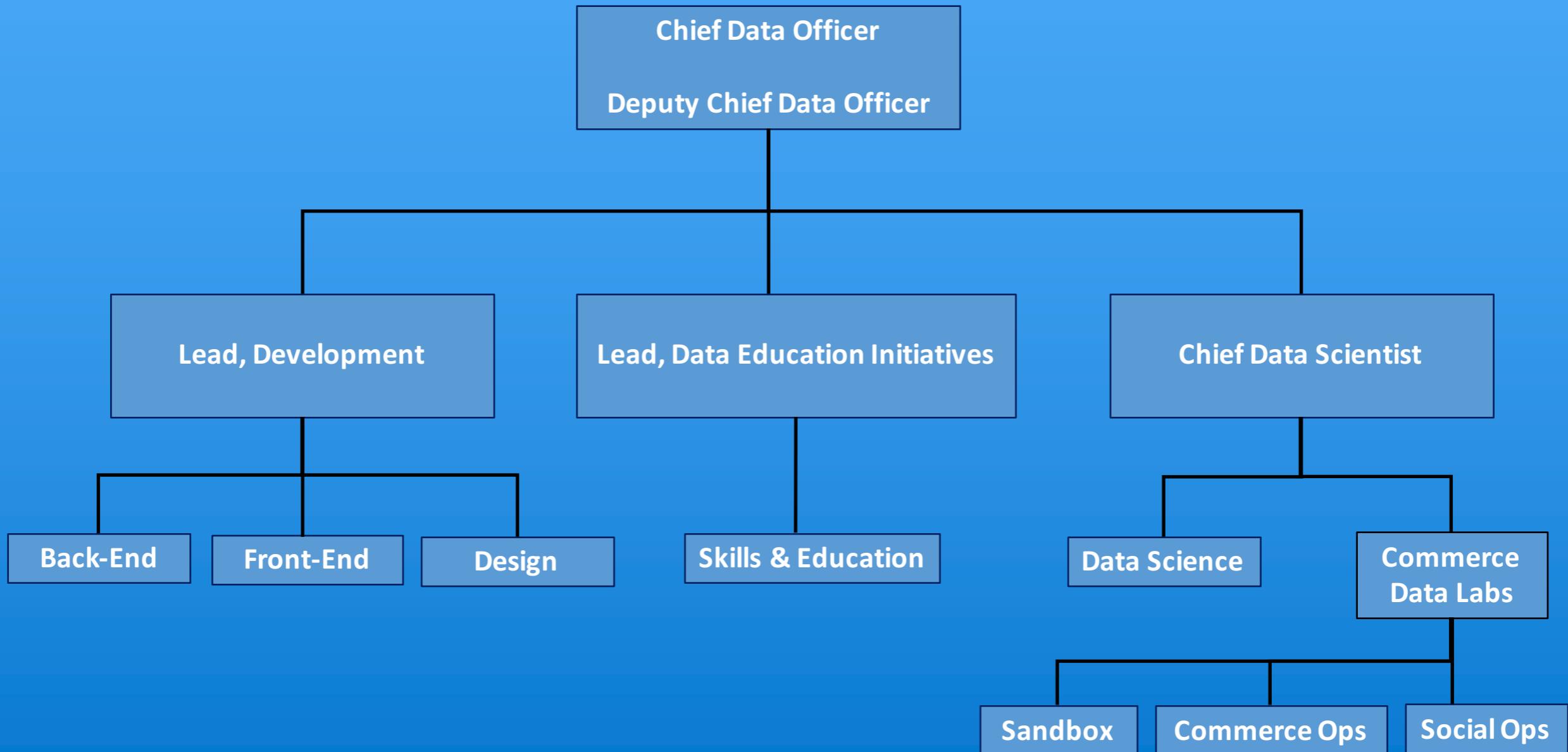
May 12, 2016



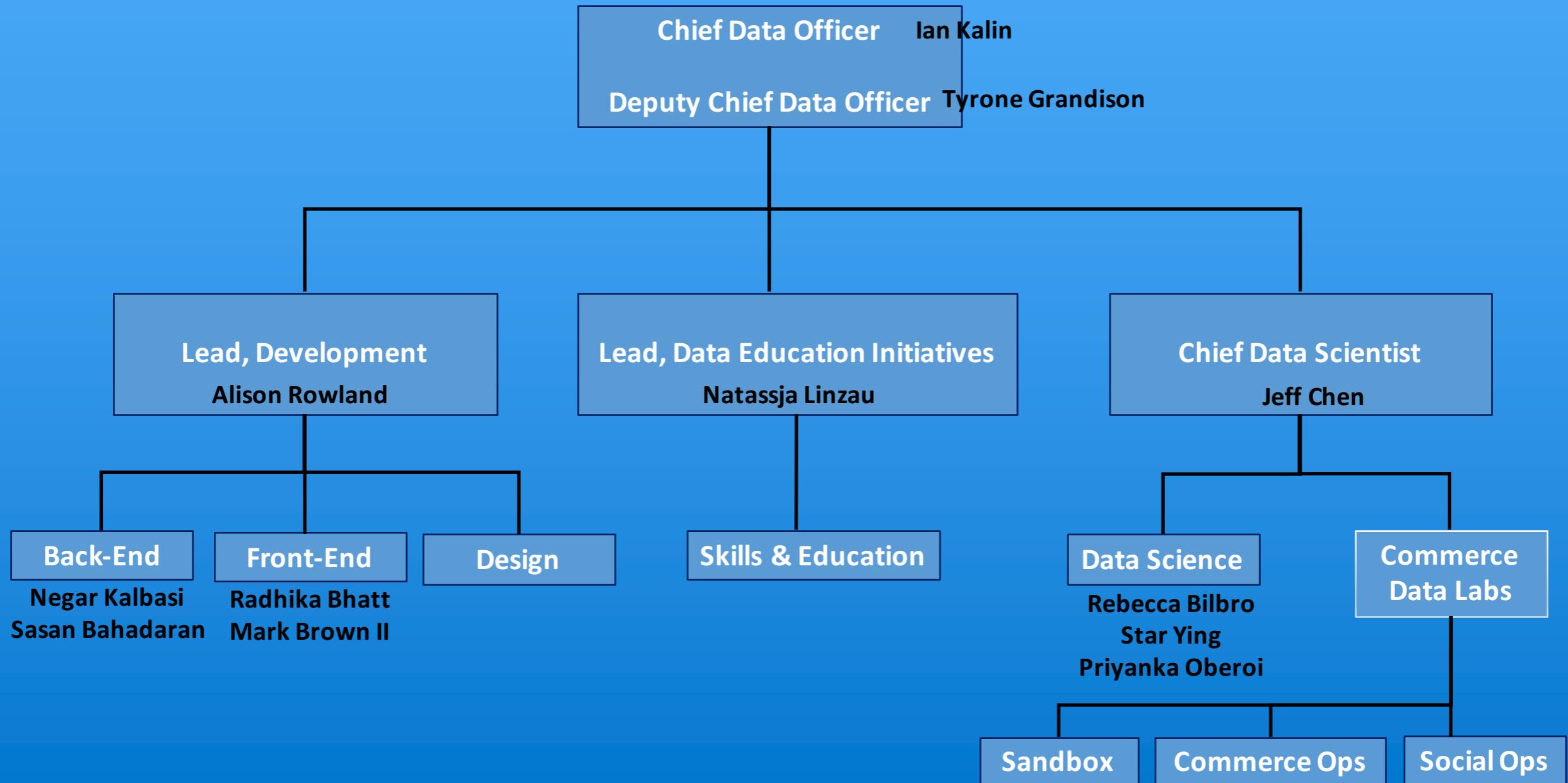
The US Department of Commerce
creates the conditions for economic
growth and opportunity



Org Chart



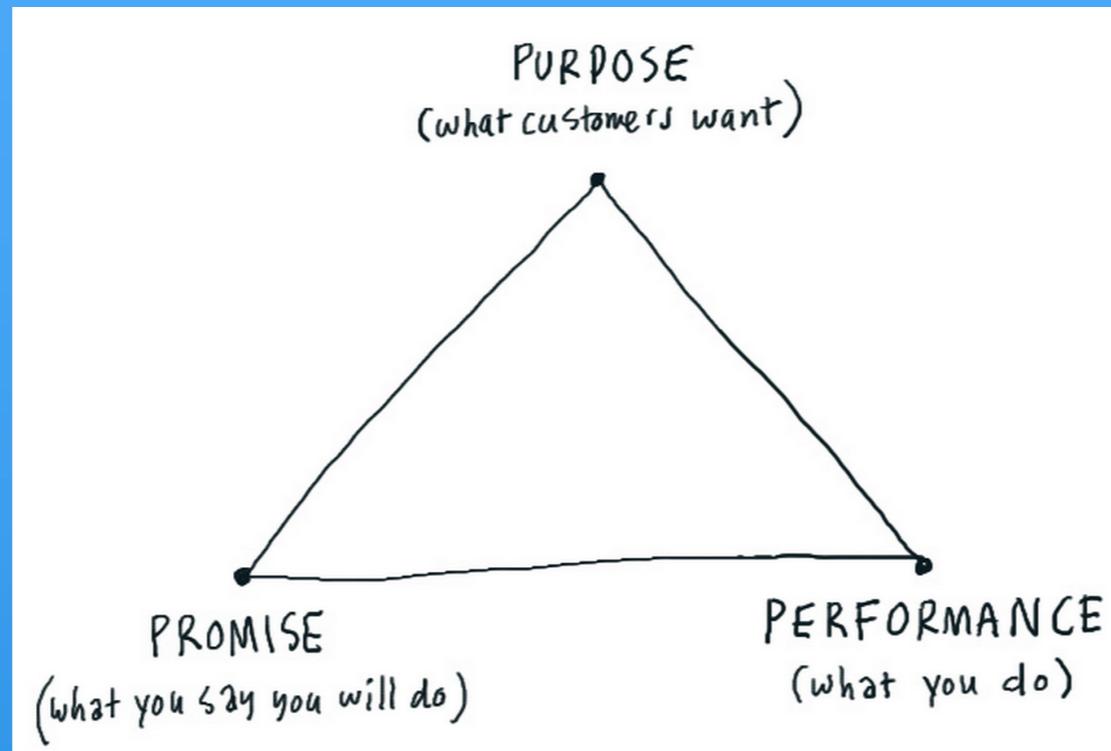
Org Chart



The Team



TEAM MEMBER EXPECTATIONS



- Be **skilled at communication**
 - Communicating their work (and results) to executives and clients.
 - Communicating with team members.
- Have a **collaborative** mindset.
- Know and practice of **Agile** and **Lean** startup methodologies.
- Know and practice **user-centered design**.
- Be **outcomes**-driven.
- Work in the **open** and in **community**.

TEAM VALUES

- **Open**
 - Everything in public.
- **Collaboration and Co-creation**
 - No impostors. One team. Ask for help. Partner often. Improve everything.
- **Communication**
 - Communicate often and meaningfully. Document everything.
- **Curiosity**
 - Constantly learning. Constantly automating. Constantly teaching.
- **Fun**



OPERATIONAL PRINCIPLES

- **(Delivery) Project Selection** done using a standard decision process.
- **Project Basics**
 - Each project must have a product owner.
 - Each project must have a transition plan.
 - Project risks must be actively managed.
- **Project Execution:** Well-defined sprints - two (2) week durations:
 - Each sprint has a crisp and well-defined goal.
 - Each sprint has a tangible deliverable at its end.
- **Project Management:**
 - All projects should use Github, Github.io and “Github issues” and Waffle.io

OPERATIONAL PRINCIPLES

- **Team Logistics:**
 - Bi-weekly status updates to the entire Data Service.
 - At least two standups per team each week.
 - Project team members is based on project need and may involve a mix of data scientists, data engineers and UI/UX engineers.
- **Meetings**
 - Should be focused, productive and geared towards goals.
 - Meetings within the team are either 13 minutes or 25 minutes.
 - Coordinators should send out an agenda for the meeting at worst 24 hours.
 - Summaries of client meetings sent to client and leadership team within 24 hours of the meeting.

ENGAGEMENT

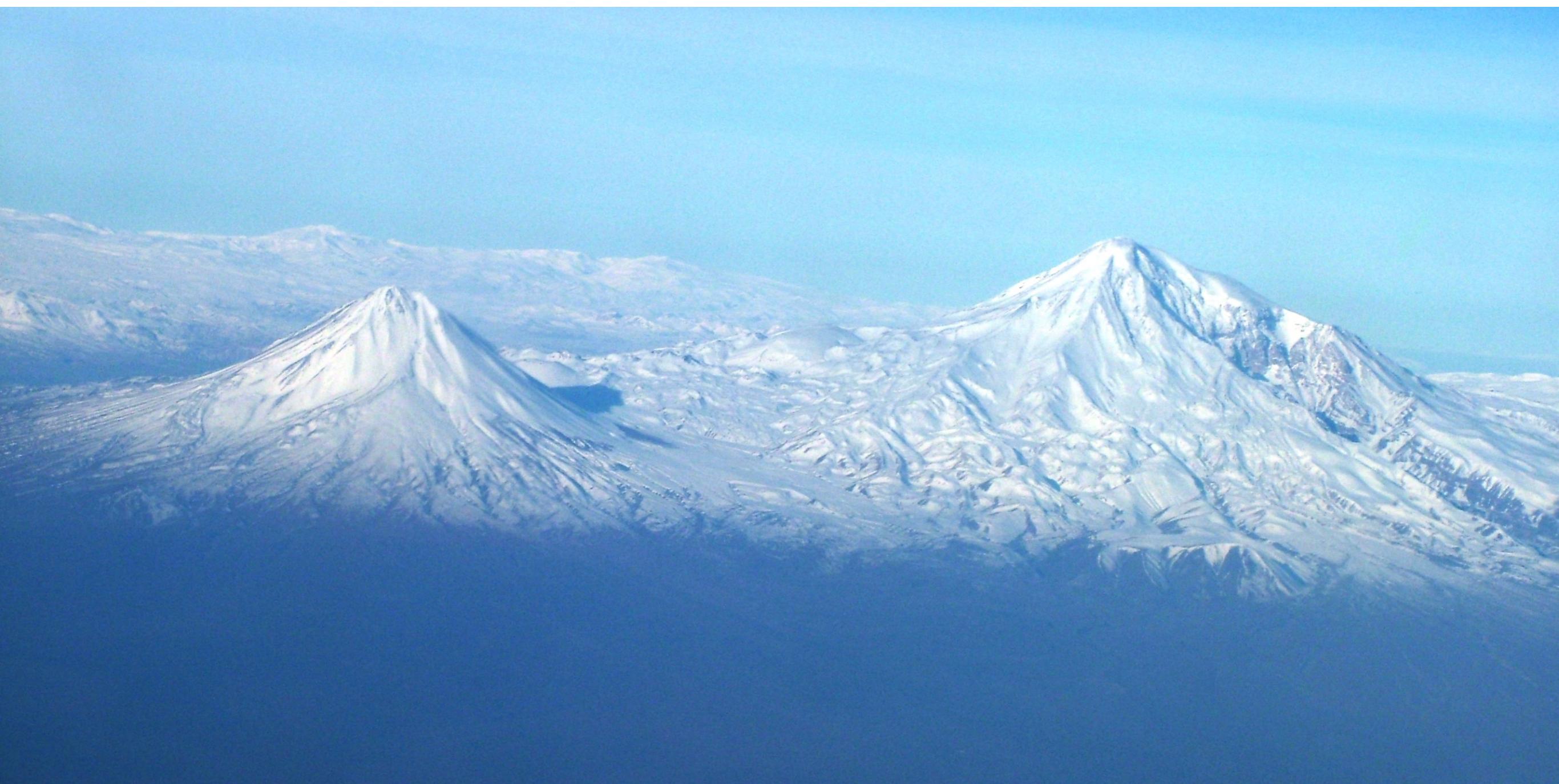
- Project Scoping
 - All projects must have some type of scope.
This is largely for keeping us honest and CYA
with the client.
- Project Tracking
 - All projects are tracked religiously and
blockers surfaced immediately.

Six conditions for scoping for awesomeness

- Access to the field
- Access to actionable resources
 - A reason for existence
 - Ethical intervention points
- Methodologically defensible yet intellectually accessible
 - Path to sustainability

	A Reason to Exist	Access to Valid Resources	Methodologically defensible yet intellectually accessible	Ethical Intervention Points	Path to sustainability
Ideas	×	×			
Research	×	×	×		
Products	×	×	×	×	×
Services	×	×	×	×	×

Fifty Thousand Foot View

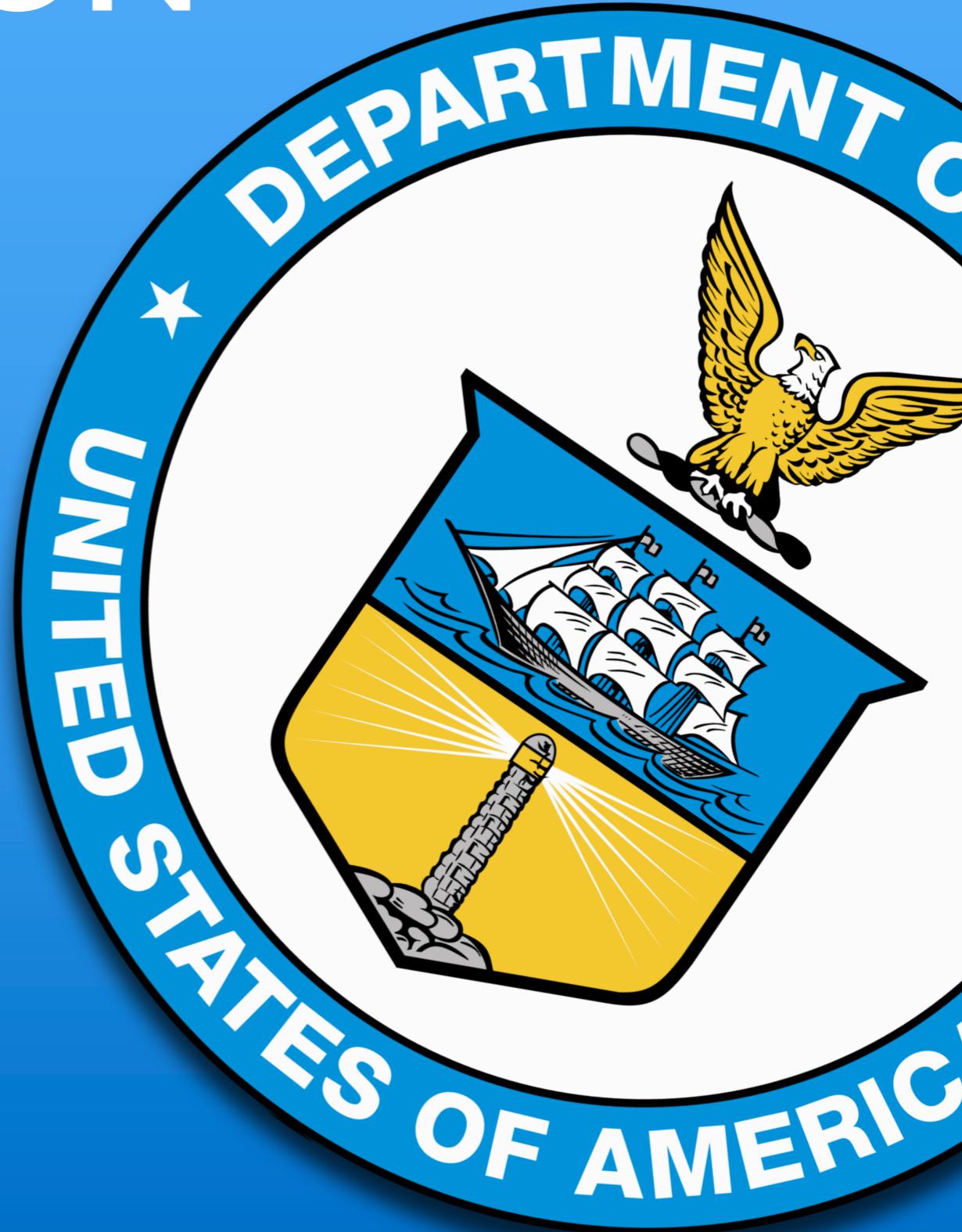


MISSION

To empower people and business through Open Data and Transparency; both within and outside the Department.

To fundamentally change the way people and businesses interact with the DOC.

To super-charge the data initiatives in the DOC's bureaus.

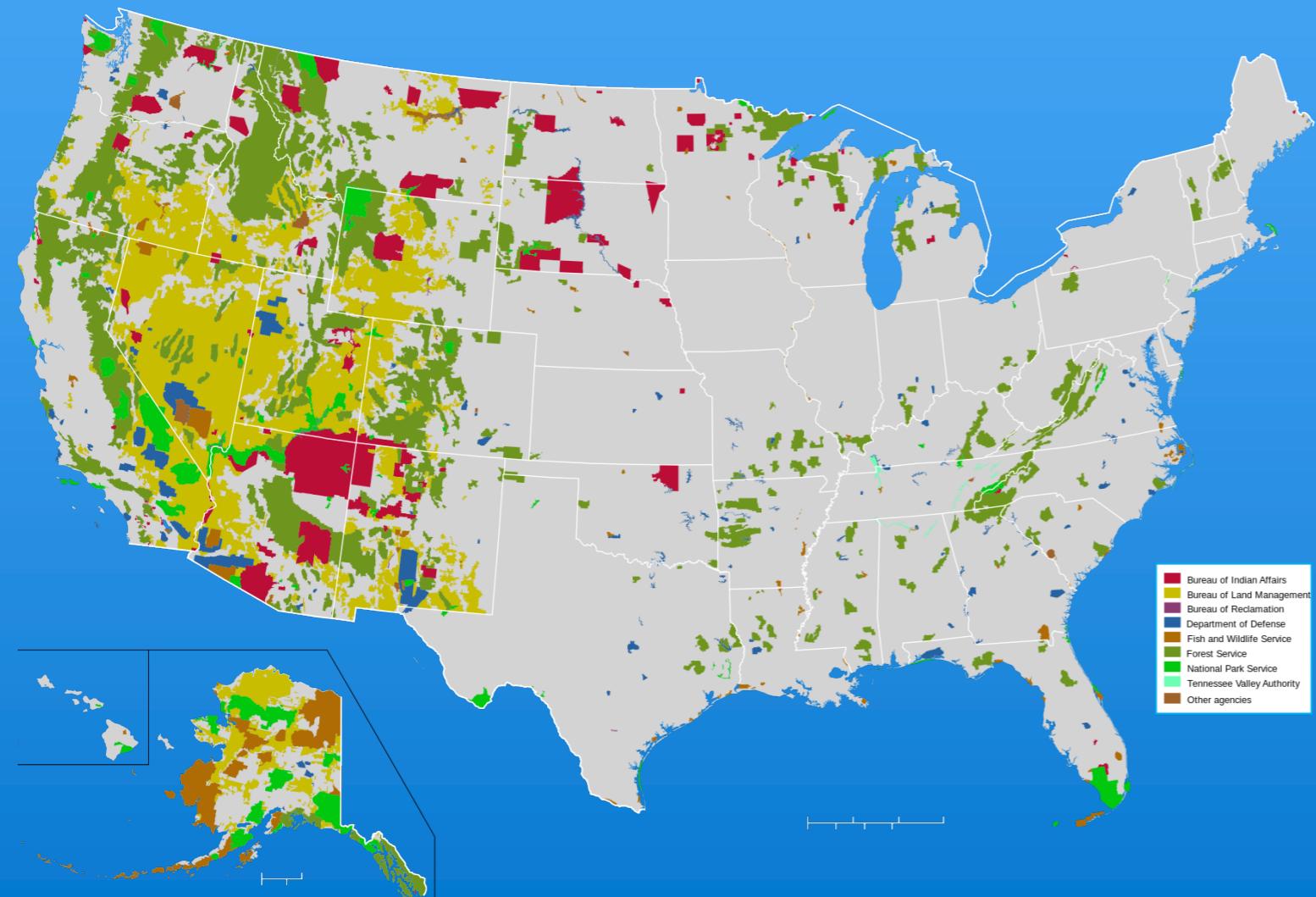


STRATEGY



- Build 21st century data product delivery into the bureaus' DNA
- Making bureaus more data-driven

WHAT WE DO



- we Deliver
- we Consult
- we Train
- we Partner
- we Procure

SERVICES OFFERED TO BUREAUS

Data Product & Service Development & Delivery

Data Consulting

Data Infrastructure Guidance

Opening Data, Creating APIs, Testing & Optimizing Use

Data Integration, Analysis, Utilization & Visualization

Client Engagement

Tech Transfer and Open Sourcing

VALUE TO BUREAUS

Cost Savings and Cost Avoidance

Improved Data Quality

Improved Connection to Customers

Time Savings

Increased Budgets and Stakeholder Justifications

Public Recognition

The Current Year



GOAL & STRATEGIC OBJECTIVES

- **Strategic Goal:**

- Maximize the positive impacts of Commerce data on society.

- **Strategic Objectives:**

- **Fuel economic growth** by unleashing Commerce data and making it easier for businesses, communities, and citizens to access, analyze, and use the data.
- **Create data-driven government** by combining and using data in new ways to increase the efficiency, effectiveness, and security of Commerce programs.
- **Deliver data services** by leveraging advances in data science, software development, and standards to accelerate product innovations.

DOC'S MAJOR 2016 DATA INITIATIVES

Objectives



Strategies



Initiatives

Fueling
Economic
Growth

Creating Data-
Driven
Government

Delivering
Data Services

- **Smart Cities Initiative** – Census Bureau CitySDK 2.0, NIST Global Cities Challenge, NTIA Data Portal
- **21st Century Economic Data** – Census Bureau/BEA Data Optimization Study, BEA website redesign, BEA Digital Economy Price Indexes Roadmap.
- **Modernize Patent Data** – USPTO Big Data Analytics Program, USPTO Patent Examination Data Search, USPTO Developer Page.
- **Accelerate Weather and Climate Data Use** – NOAA Big Data Project, NOAA Data Citation project.
- **Unleash Scientific Data** – NIST Materials Data Curation System, NIST Standard Reference Data Modernization, NIST Measurement Data Management Project.
- **Trade Data Services** – ITA Exporters Data Project, ITA/BIS Trade Developer Portal, Foreign Trade Data Integration at BOC/BEA/ITA/BIS.

- **Census Innovation** – 2020 Census Re-engineering, American Community Survey Redesign, Census Bureau Income Data Project.
- **Administrative Data Sharing** – ESA Data Synchronization Effort.
- **Performance Analytics** – DATA Act implementation.

- **Commerce Data Service (CDS)** – Entrepreneurial team delivers products to Bureaus.
- **Software Developer Toolkits** – All Bureaus: new developer tools development, Data Usability Project public launch, agile delivery methodology deployment.
- **National Technical Information Service** – Evolution Action Plan implementation.

2016 CDS Project Priorities

Trade Data

Income Data

Patent Data
Modernization

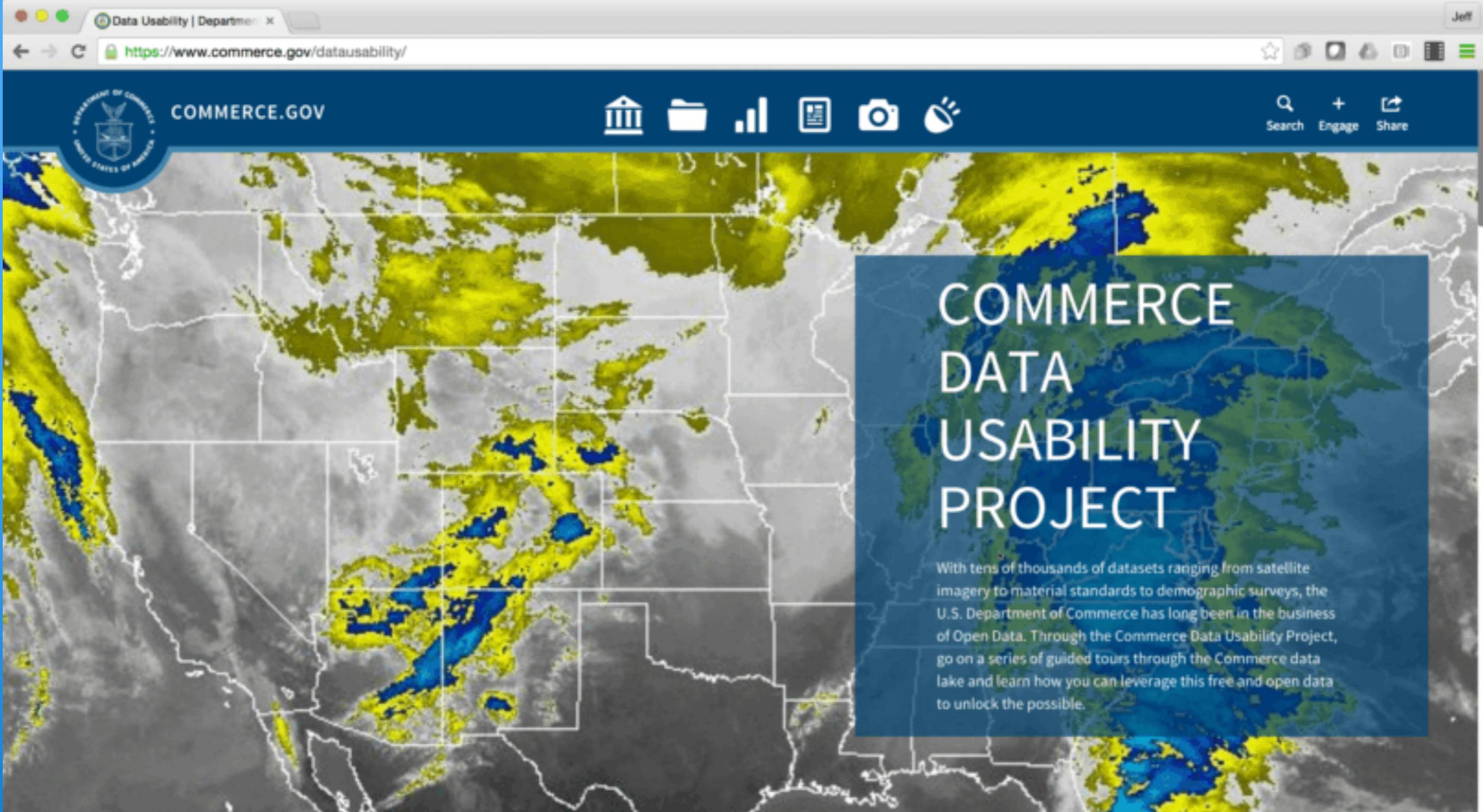
Commerce Data
Usability

Interoperability
Architecture

2016 CDS Funding Bureaus

UNITED STATES
PATENT AND TRADEMARK OFFICE





Commerce Data Usability Project

[commerce.gov/datausability](https://www.commerce.gov/datausability)





Income Across **AMERICA**

Explore how income changes across geographies and demographics.

[Browse Topics](#)

or

[Explore Data](#)

View and Build Powerful Visualizations

Income distribution in the United States is a complex issue that everyone deserves the right to

The MIDAAS Project

<https://midaas.commerce.gov>

The Opportunity Project

An official website of the United States Government

This site is currently in beta. [Learn more.](#)

The Opportunity Project

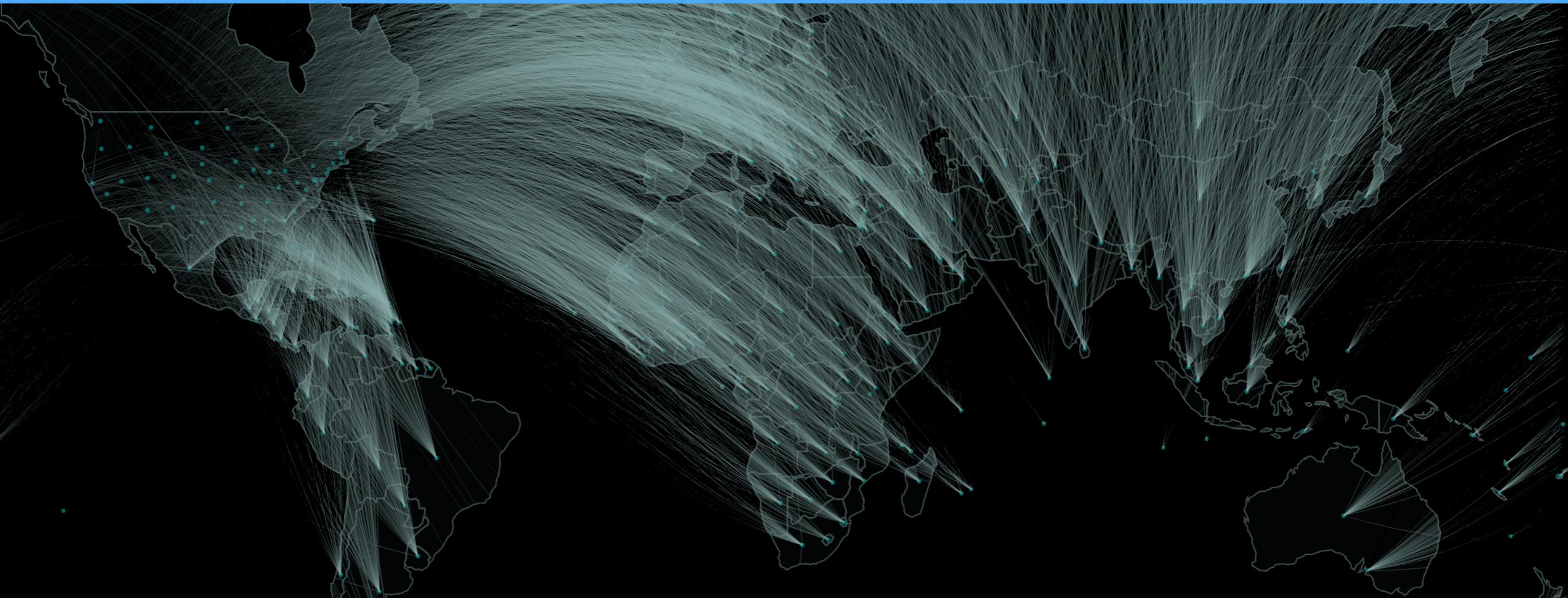
Let's build something amazing together.

Connect

Build

Learn More

opportunity.census.gov



New Exporters Initiative

- Inform new strategies for communicating and connecting with businesses to encourage exporting
- Serve as a testbed for optimizing how services are offered and delivered to businesses across different industries
- Operationalize a vision for data-driven government



Schools,
Girls of Color
+ Justice

Help Girls of Color

<http://www.helpgirlsofcolor.org>



COMMERCE.GOV



Search Engage Share



Commerce Data Academy

<http://DataAcademy.commerce.gov>



Economics & Statistics Administration

United States Department of Commerce


Indicators
Cool Data
Blogs
News Updates
News
Articles
Reports
Documents

COMMERCE DATA ADVISORY COUNCIL

Tune in to hear the brightest minds in tech and data advise on the future of data-driven public service

Next Meeting Date TBD in Washington, DC

[Previous Meetings](#)

[May 2016 Agenda](#)

Commerce Data Advisory Council

<http://esa.gov/cdac>



19,623

people on agency websites now

Visits Today



Eastern Time

Visits in the Past 90 Days

There were **334.5 million** visits over the past 90 days.

Top Pages

	Now	7 Days	30 Days
<i>People on a single, specific page now. Download the full dataset.</i>			
National Weather Service	1,051		
National Weather Service - Forecasts by Region	258		
Storm Prediction Center Today's Storm Reports	182		
Storm Prediction Center Mar 16, 2016 0600 UTC Day 1...	172		
Doppler Radar National Mosaic	112		
NOAA/NWS Storm Prediction Center	90		
Eastern U.S. Infrared, Enhancement 4 - NOAA GOES G...	87		
Storm Prediction Center Convective Outlooks	79		
Duluth, MN	63		
United States Patent and Trademark Office	62		
Trademark Status & Document Retrieval	59		
Twin Cities, MN	58		

DOC Web Analytics Dashboard

<https://analytics.usa.gov/commerce/>

DELIVERING

- BEA RIMSS Web ReDesign
- Patent Data
 - Big Data Science Models
 - Infrastructure for Data Science projects
- NIST
 - NetZero House
 - MEP
- CENSUS

Welcome to the Team !

QUESTIONS? PEOPLE TO CONTACT



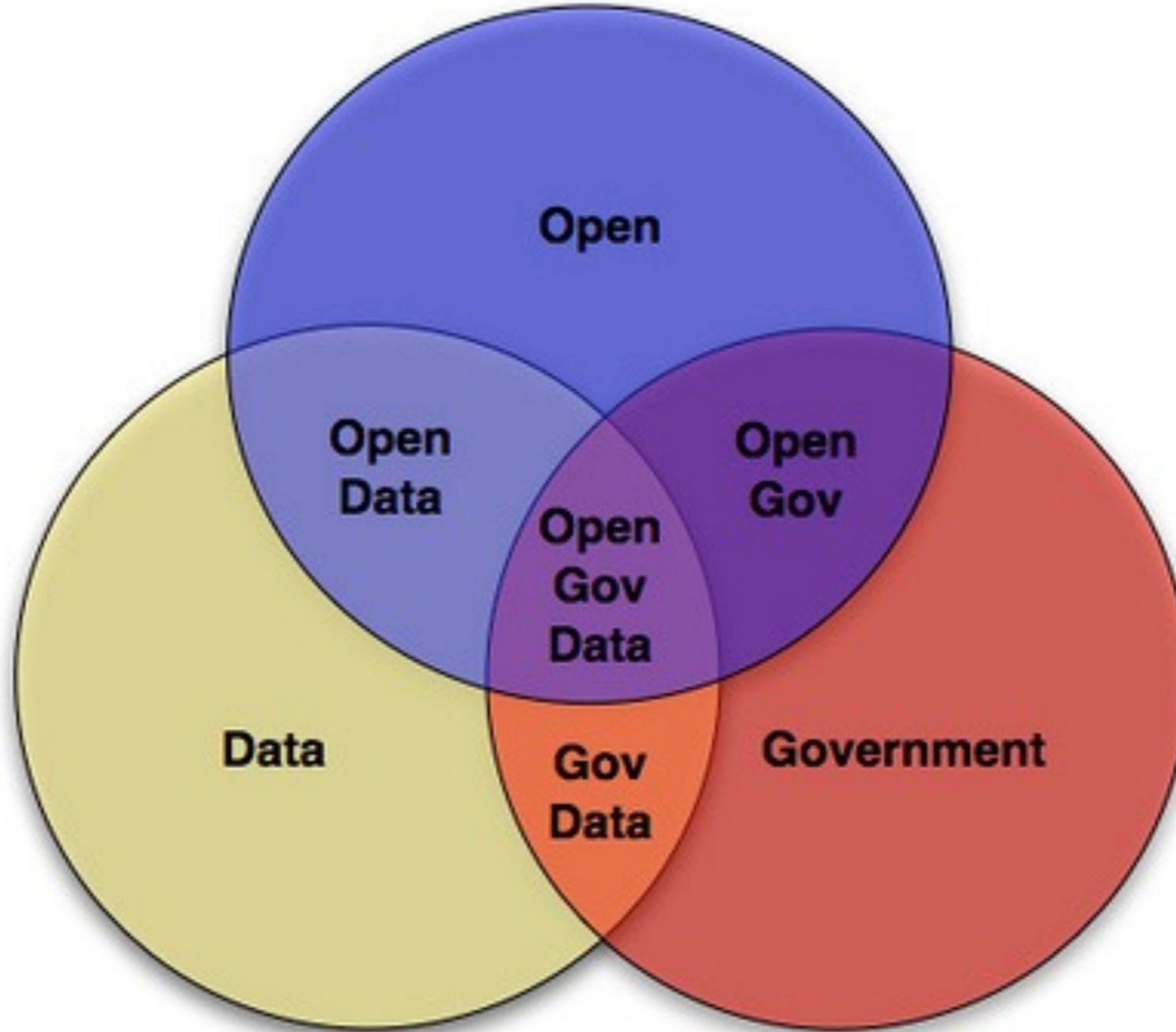
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Dr Tyrone Grandison
Deputy Chief Data Officer

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BACKGROUND MATERIALS

The Twelve Principles of the Agile Manifesto

Agile Principles and Practices

Lean Product Design

Why Build, Measure, Learn – isn't just throwing things against the wall to see if they work – the Minimal Viable Product

User-Centered Design Basics

U.S. Digital Services Playbook

U.S. Web Design Standards

How to Work Open

I8F Delivery: Partnership Playbook

Github for Beginners

GitHub's Git Cheat Sheet

Github Guides

Mastering Markdown

A Successful Git Branching Model

Getting Started with Waffle.io

I8F Open Source Guide

I8F Front-End Guides

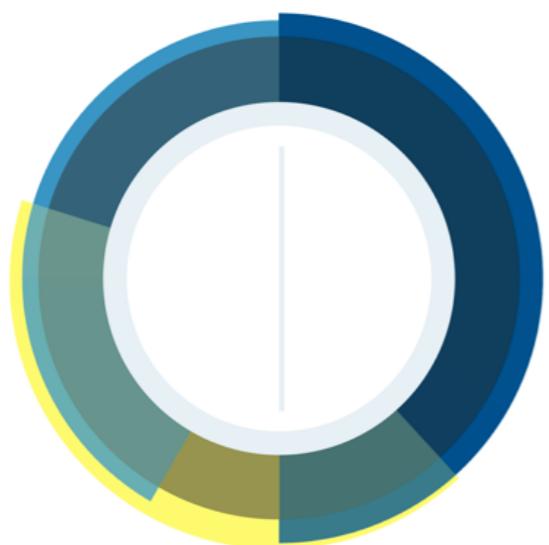
[18F Development Environment Guide](#)

[18F Automated Testing Playbook](#)

[18F API Standards](#)

[18F Analytics Standards](#)

[18F Accessibility Guide](#)



COMMERCE DATA SERVICE



commerce.gov/dataservice



data@doc.gov



@CommerceGovData