

Interagency Data Team

September 29, 2020

<https://octo.dc.gov/page/interagency-data-team>



INTERAGENCY DATA TEAM
COORDINATE, ANALYZE, SHARE
data.dc.gov



Open
Data DC

Agenda



Welcome, News & Updates

Barney Krucoff, Chief Data Officer (OCTO)

Michael Bentivegna, Program Manager for Data Visualization & Analysis (OCTO)



Emergency Preparedness Data Coordination in an Active Hurricane Season

William Lescure, GIS Coordinator, Homeland Security & Emergency Management Agency (HSEMA)



Three Questions for a Better Data Future - Insights from Your Survey Submissions

MeghanMarie Fowler-Finn, Business Relationship Manager, (OCTO)



Data Report & COVID-19 Priority Datasets

Mario Field, Data Curation & Governance Program Manager (OCTO)

Welcome

Barney Krucoff
Chief Data Officer
Office of the Chief Technology Officer

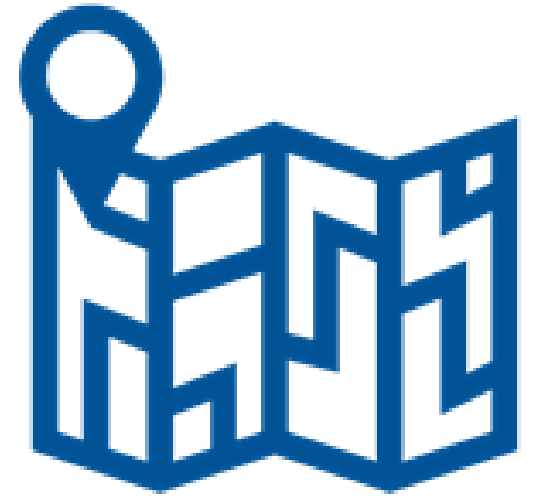
Our Fiscal Year Outlook

Enterprise Dataset Inventory

<https://opendata.dc.gov/pages/cdo-annual-report>

All OCTO Data services listed here, including training

<https://dcgis.in.dc.gov>



Business Intelligence - Tableau Updates



**Tableau
Internal
Production**
2020.2.3

COVID Projects

ESRI ArcGIS Server

Enable
MicroStrategy Web
Data Connector



**Tableau
Public Production**
2020.2.3

12 Agency
websites in
production with
~88 embedded
Tableau
Reports/
Dashboards

Automatic Script



**Tableau
Test/Dev**
2020.2.3

QuickBase

Secure Auth



**Tableau Site
Administrator**
quarterly
meeting

Next meeting
End of Oct.

Business Intelligence - MicroStrategy Updates



**MicroStrategy
Production @
version 2020
Update 1**

Microsoft Office
Add-On

Platform Analytics



**Lower
MicroStrategy
Environments
2020 Update 1**

Enterprise/Self
Service

Deploying
physical IS server
for development



**MicroStrategy
Public/SharePoint**

COVID19 public
dashboard

<https://coronavirus.dc.gov/page/coronavirus-data>

Coronavirus Stats

DCPS Back-to-school
Call dashboard



**MicroStrategy
Stake Holders
Meeting**

Met with
stakeholders in
August 20,2020

Next meeting will
be in early 2021

Geographic Information Systems - DC GIS



**ArcGIS Server
Production @**
version 10.7.1

Esri feature services
to HTTPS, only
(<https://maps2.dcgis.s.dc.gov/dcgis/rest/services/>)

ESRI Desktop
License Manager
supports 10.8.1 and
below.



ArcGIS Portal @
version 10.7.1

AGOL [Coronaviruses Data Hub Site](#)

New secure COVID
service

REST website:
[https://em.dcgis.d
c.gov/dcgis/rest](https://em.dcgis.dc.gov/dcgis/rest)



**Streaming
services**

ESRI
GeoEvent Internal
10.7.1 External
10.7.1

Apache Kafka DSP
Streaming data



Data

FY20 Spring
LiDAR
project delayed
due to COVID-19.
All data released
in mid-November

DC GIS continued

Disabling HTTP Esri Map Services

- Dec 2020, all Esri feature services to HTTPS
- Apps Affects
 - Connections in ArcGIS Pro, ArcGIS Desktop
 - Custom like DC Atlas Plus

Retire DC GIS Toolbar

- Will no longer be updated.
- Better options in ArcGIS Pro and Open Data



- Redirected URL 10/1/2020
- Replaced by CrimeCards
- New legacy URL
- MPD messaging

Big Data and Data Integration Updates



Current and Upcoming Big Data Projects:

- Cloudera Software Platform Upgrade
 - Enhanced Security
 - Easier Kerberos Authentication
 - Apache Spark 2.x and other new tools
- DDOT Dockless Trips Data – Esri GeoEvent Integration!



COVID-19 Response

- **Mobility Data** from multiple providers – over **11 Billion Records**
 - Replica** - User Interface and Raw Data available
 - SafeGraph – Dashboard from HSEMA
- **AWS Connect Call Center – DHS, OCTOHelps/DCPS, DC Health**

ORACLE MIGRATION

DATABASE PLATFORM	DEVELOPMENT	TESTING	PRODUCTION
<i>Current</i>			
Data Warehouse	New Grid 11G (ODC3)	New Grid 11G (ODC3)	Old Grid 11g (ODC1)
GIS	New Grid 11G (ODC3)	New Grid 11G (ODC3)	Old Grid 11g (ODC3)
<i>New</i>			
Data Warehouse	New Grid 12c (ODC3)	New Grid 12c (ODC3)	New Grid 12c (ODC3)
GIS	New Grid 12c (ODC3)	New Grid 12c (ODC3)	New Grid 12c (ODC3)

Tasks:

- Move Current Production Database to New Grid 11G
- Migrate all new databases to 19c

Issues:

- *Ensure connectivity is not lost for users and applications (GIS and MAR are part of migration)*

ORACLE FIREWALL

- OCTO implementing firewall on database, including data warehouse and GIS
- Almost all with see no change in connectivity
- *Infrequent users may get a denial in connection to databases, contact us if this is the case*

User Groups

GIS User Group (Meetings via WebEx):

- October 15th
- November 19th
- December 17th

Contact: Eva.Reid@dc.gov

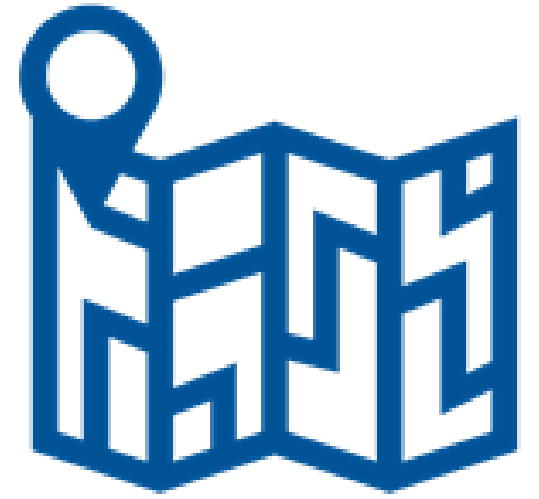
Data Science @ DC

Next Meeting: October 8th (*Teams*)

Contact: Tomash.Bukowiecki1@dc.gov

Topics:

- *ArcGIS connecting to the Data Lake
- *Data Use Agreements -- best practices





Virtual Tableau Training

Introductory
Prep

October 15

Introductory
Desktop

October 8 and 9

Intermediate
class

To be determined...



<https://octo.in.dc.gov/service/tableau-training-courses>



MicroStrategy Training

Introductory training

- First online training in late October or early November

Architect/Developer training

- Next training in early 2021
- By invitation only



<https://octo.in.dc.gov/service/microstrategy-introductory-training>



GIS Training

DCHR has cancelled all in person classes.

New GIS in DC: An Overview will be offered virtually at the end of October. Some direct **virtual training** will be available to staff on a **limited basis**.

Some online courses available via **ESRI Training Portal** to employees with ArcGIS Online access. For recommendations, please contact Eva.Reid@dc.gov

DC HSEMA 2020 GIS Hurricane Preparedness

Organizing GIS content and people during a hurricane event in the District of Columbia.

William Lescure | September 11, 2020

<https://storymaps.arcgis.com/stories/92da9b18b21945c98a5d441c77a1b9b4>

Links to apps and websites referenced in this presentation:

[Hurricane Map Series](#)

[Hurricane Flood Map](#)

[Power Outage App](#)

[Traffic and Street Closure Dashboard](#)

[ArcGIS Online](#)

[Public Safety Portal](#)

[DC Open Data](#)

[HIFLD Open Data](#)

[FEMA Hurricane Hub Site](#)

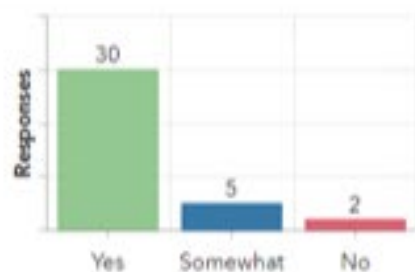
[FEMA Geospatial Resource Center](#)

Three Questions for a Better Data Future Insights from Your Survey Submissions

MeghanMarie Fowler-Finn
Business Relationship Manager
Office of the Chief Technology Officer (OCTO)

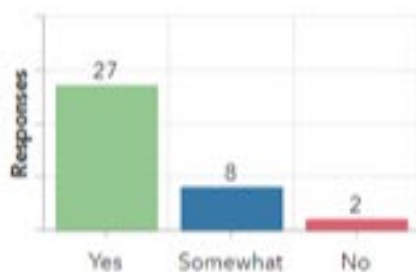
Take the survey!
<https://arcg.is/rSOmP0>

My agency uses OCTO data services to support these use cases...



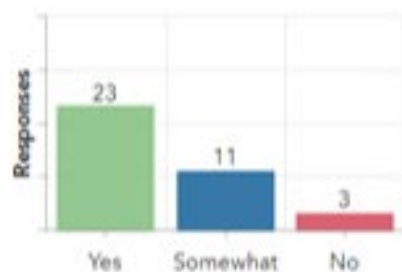
Share Data within My Agency

Last update: 3 minutes ago



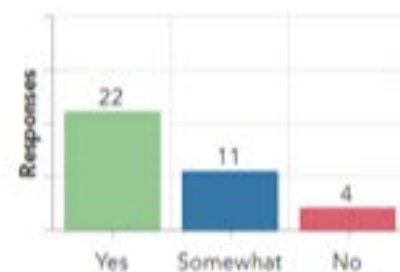
Engage with Public & Share Data Openly

Last update: 3 minutes ago



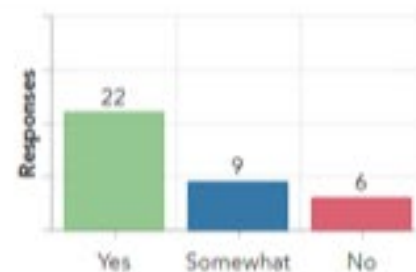
Improve Customer Service

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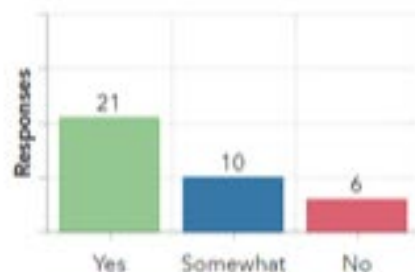
Monitor Conditions & Provide Situational Awareness

Last update: 3 minutes ago



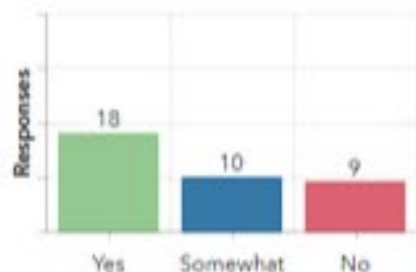
Measure & Improve Performance

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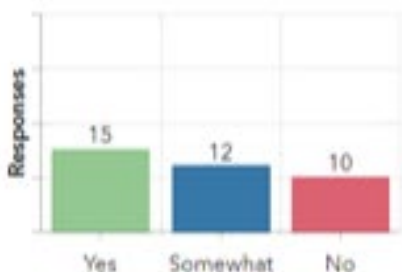
Support Front Line & Field Workers

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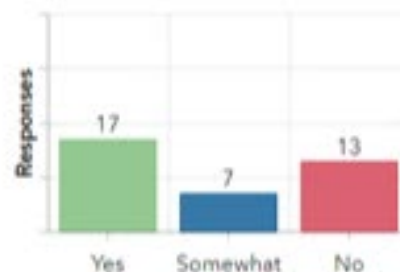
Comply or Enforce Regulation

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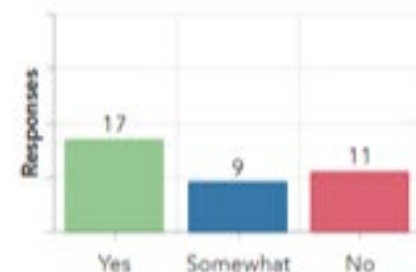
Develop Policy

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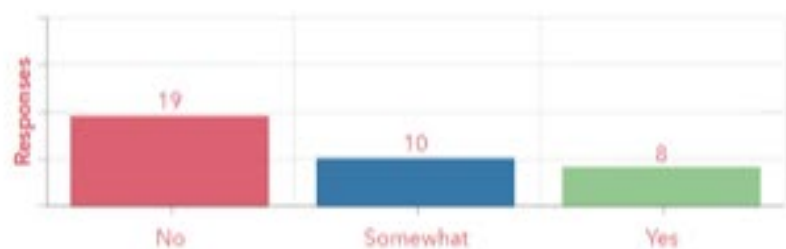
Track Assets

Last update: 3 minutes ago



Save Money

Last update: 3 minutes ago



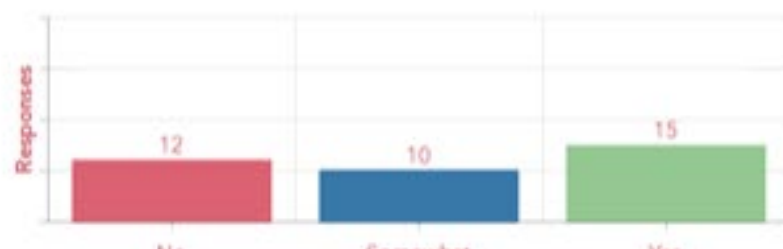
Detect Fraud

Last update: 3 minutes ago



Utilize Internet of Things

Last update: 3 minutes ago

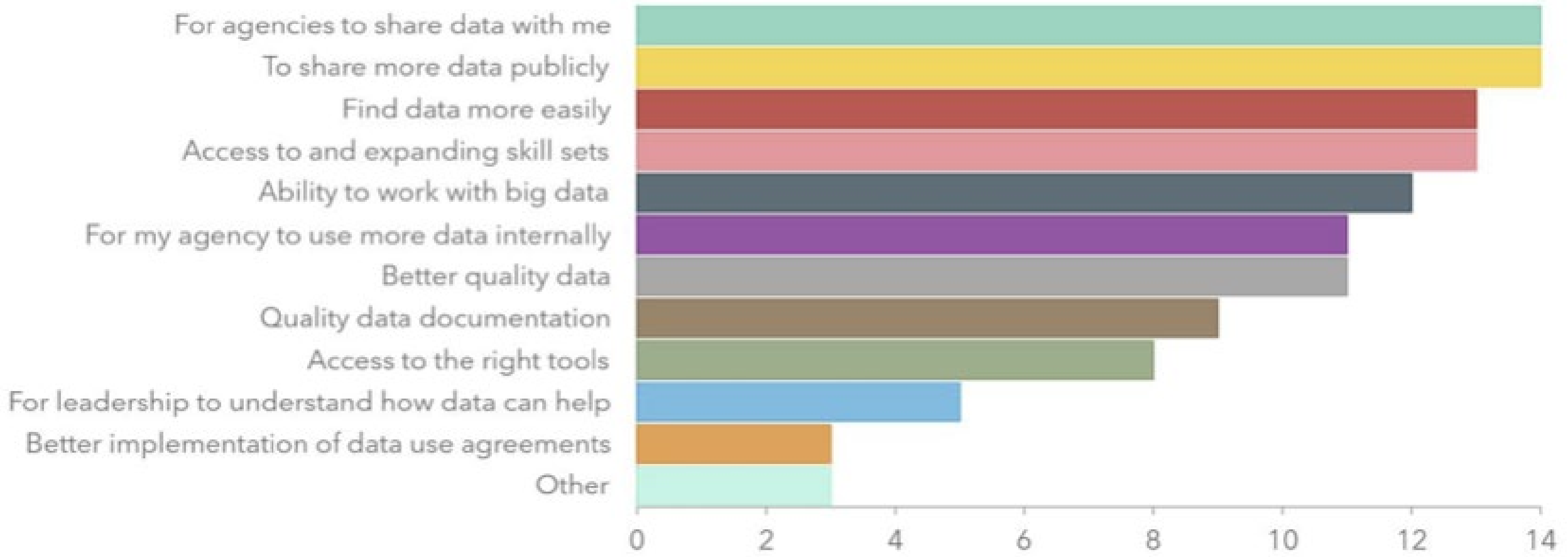


Ensure Equity

Last update: 3 minutes ago

● My team's top THREE needs to help my agency use data better:

Column Bar



25 agencies, 37 responders, 29 responders gave at least one comment

Most popular comment categories:

(All comments were positive, almost all comments said OCTO Data Team is helping and we want more)

Data Analysis including Big Data: OCTO, DBH, OP, DDOT, DCRA, DGS, OSSE, EOM, FEMS

Data Availability new datasets, improvement of metadata, lidar, Ortho, Planimetric and Data Catalog: DDOT, HSEMA, OCFO, OP, OCP, DGS

Data Sharing: OCFO, The Lab, FEMS

Data Security: DCHealth, DDOT, OCP, The Lab

Infrastructure Software access (GIS and BI), ETL services, Enterprise GIS, MAR/MAR services: HSEMA, DDOT, DPW, OSSE, OCP

Positive comments – OCFO (1 of 3)

1. OCTO data team is an integral part of our plan to provide the Public Release extract that contains **property and BILL information to interested stake holders**. In addition to Public Release extract, **multiple extracts on property features** are shared
2. OCTO data team maintained **Master Address repository (MAR)** is utilized extensively in the address management for Real property tax administration as well as the property layers.
3. OCTO data team plays an important role in working with us to satisfy the **imagery and planimetric needs** for Real property Appraisal process
4. OCTO data team plays an important role in keeping the **Enterprise Esri ArcGIS licensing**, support and version upgrades .We use the **ArcGIS Desktop** and expose the property layer to taxpayers through ArcGIS online (currently thru taxpayerservicecenter.com and in future through mytax.dc.gov). We also further benefit from **other layers that are made available** .

Positive comments – HSEMA (2 of 3)

The OCTO data team has provided invaluable support of emergency operations in the District; not just providing a well organize and vast **data catalog, geo-spatial infrastructure and licensing, but a lot of hands on GIS, BI and data support** during the COVID response as well as other emergency activations. At HSEMA we rely on the OCTO Data team to during large special events and disasters to provide EOC support and backup. The data team has also provided **important consultation and development as we look to upgrade our situational awarenss systems at HSEMA**. Being able to call on the technical expertise of the OCTO Data Team, makes what we do at HSEMA possible.

Positive comments – DDOT (3 of 3)

Consistently provides assistance with the following topic areas:

1. Curation and promotion of **open data**
2. **AGOL account management** roles and usage support
3. **Map service development**, maintenance & troubleshooting - for both externally facing applications as well as internal asset management & customer service systems such as Cityworks
4. **Hub site** development and support

Future Facing Comments (4 of 6)

DPW: “...functionality that require **GeoEvent Server and the associated spatial/temporal database** which can be used on the fly to determine when vehicles are in our out of designated areas or within specified distances of locations.”

OP: “...It would be helpful to have more access to **commercially available data** such as Master Card and/or Earnest Consumer spending data for small geography analysis. These data may be relevant to other agencies including DMPED, DSLBD, DHCD, and DOES.”

DDOT: “...making **big data analysis** easier for staff with limited technical expertise.”

DCRA: If my agency wants to accomplish **deep learning and higher level analytics with data**, then the OCTO Data Team could help by **providing consulting services**.

Future Facing Comments (5-6)

DPW: “....helpful to speak on **tools such as Elastic** to see how agencies can leverage that platform to **access and visualize data.**”

The Lab: Our biggest use (and something for which we are incredibly grateful) is the development of the **Data Lake**, as well as the flexibility to shape it to our needs in The Lab @ DC. As we transition to the Data Lake it helps us have more consistent **data security** and much greater server capacity so that our data scientists and social scientists can focus on using the data rather than storing/sharing it.....delivering and evaluating programs that are **cross-agency and cross cluster**...OCTO data team can help by working with Agency CIOs to ensure the data lake meetings/exceeds their security standards and incorporates any needs specific to the data (e.g. HIPAA, Tax data, etc.)

Data Report

Mario Field
Data Curation Program Manager
Office of the Chief Technology Officer

New Datasets on Coronavirus Hub

- DCPS Daily Student Meals
 - DHS
 - In Shelter Positive Cases
 - Hotel Isolation & Quarantine
 - Grocery Distribution
 - [Story Map](#)
 - Virtual Family Assistance Center
- All available at <https://coronavirus-data-dcgis.hub.arcgis.com/>
 - Contributors: DHS, DCPS

New Datasets on Open Data DC

- 2020 Census Tract, just linework (DRAFT)
- Library Resource Usage
- DC Unique Building Identifiers
- Slow Streets
- Mail Ballot Drop Boxes
- Early Voting Centers
- Election Day Voting Centers
- All available at opendata.dc.gov
- Published since last meeting, 6/25/20
- Contributors: DOEE, DDOT, MPD, BOE

Updated Data

- Adult, Juvenile, and Marijuana Arrests
- Building Energy Benchmark
- Capital Project
- Clean Team Service Area
- District Government Land
- Great Streets Corridors
- Liquor Licenses
- Moving Violation

- All available at opendata.dc.gov
- Updated since last meeting, 6/25/20

- Parking Violation
- Proposed Capital Boundary
- Public School
- Shot Spotter Gun Shots
- State of Washington DC
- Stop Incidents
- Storm Drains
- Streetlight



Questions?

Three Questions for a Better Data Future

Use your phone camera to take survey now



Thank you for joining. For notes and presentation material visit:

<https://octo.dc.gov/page/interagency-data-team>
Presentation and Meeting Notes