



CUSTOMER SERVICE. ACCOUNTABILITY. EFFICIENCY. SECURITY.



GIS STEERING COMMITTEE

7/18/2018

Hosted by the Office of the Chief Technology Officer

open.data@dc.gov





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AGENDA

- Welcome, Data Program News & Updates
Matthew Crossett, Office of the Chief Technology Officer
 - Lidar Pilot QC Results
 - Maps2 AGS Migration to 10.6
 - Esri ELA Changes (ArcGIS Hub)
 - Public Safety Portal 10.6
 - NearMap Imagery
- Local Update of Census Addresses
David Jackson, Office of the Chief Technology Officer
 - Preparations for the 2020 Census
- MAR 2.0 Testing Results / Systems & API Updates
Julie Kanzler, Office of the Chief Technology Officer
- DPW Use Cases & Needed Product Solutions – Both Current & Future Considerations
David Kaehler, Department of Public Works
- Data Curation Updates
Mario Field, Office of the Chief Technology Officer
 - GIS 2.0 Database @ Oracle 12c
 - Agency Data Submission Process for Publication
 - Newly Published & Updated Data





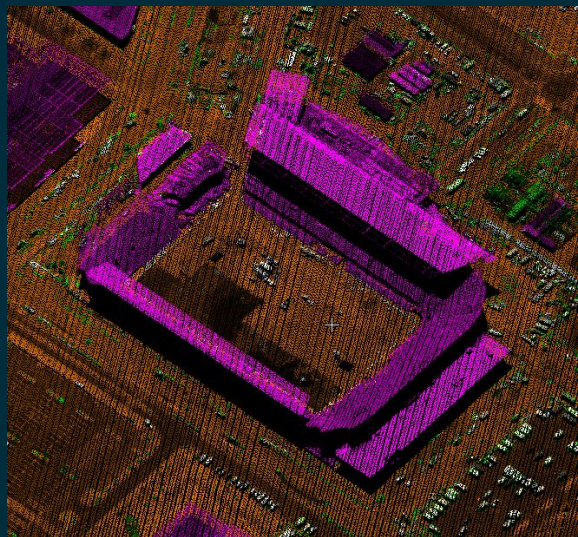
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2018 SPRING LIDAR UPDATE

- Flown April 5th, 2018 – One lift
- Pilot -4 tiles with Deliverables so far
 - Classified LAS
 - Contours (` 2FT)
 - DSM / nDSM
 - Hydro Enforced DTM
- QC Highlights
- Data available late August



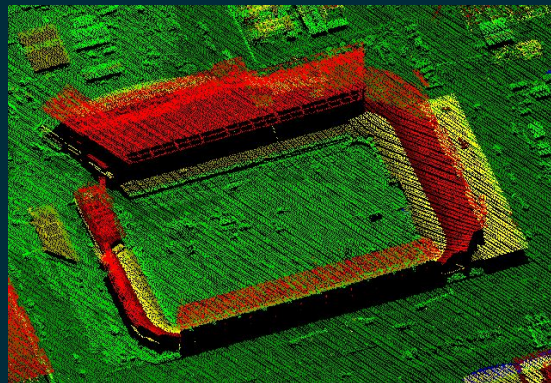
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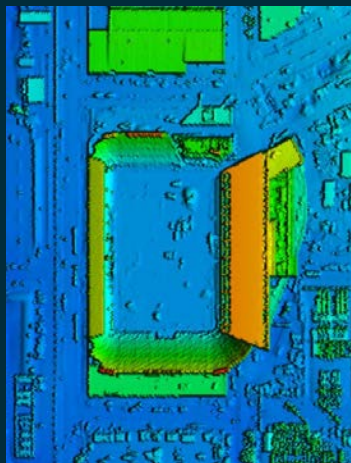
Point Cloud Intensity

Audi Field – DC United Stadium

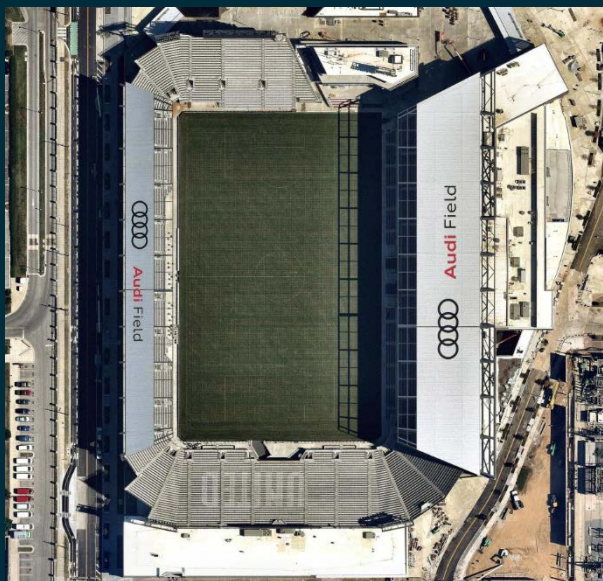
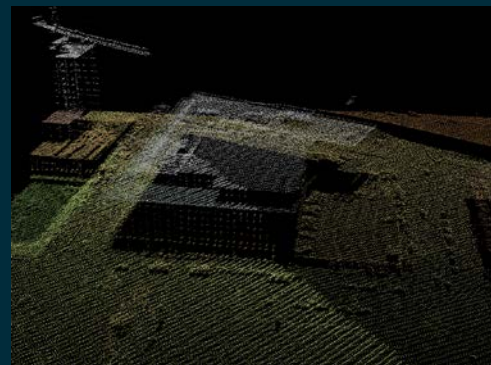
Point Cloud



Digital Surface Model

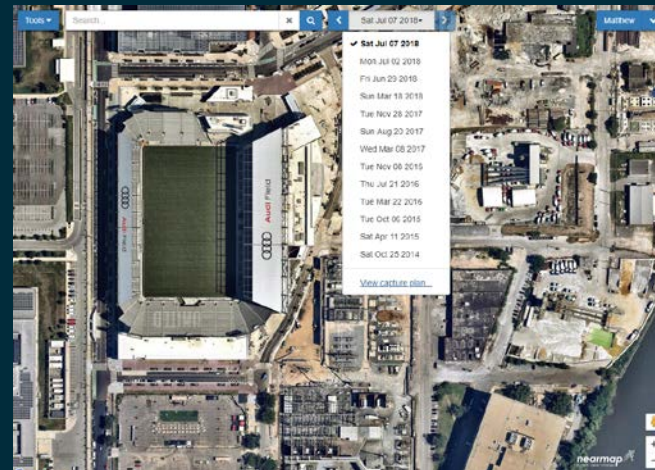


Raw data via Free Viewer of 200 I ST SE



NEARMAP & PICTOMETRY

- Citywide updates flown on Jun 29th, July 2nd and 7th
- Gain access by visiting <http://octo.in.dc.gov/node/165505>
- Available as imagery service (ArcGIS Desktop), Web Viewer and in ArcGIS Online marketplace (join [Imagery Apps](#) group)
- Planned Oblique Flight for Fall 2018



ELA - ESRI UPDATES

- Entering a new contract this fall, likely a 3yrs deal.
- Changes include:
 - Decreasing EDN's from 10 to 7
 - InSight licenses: some Portal, some AGO
 - Removing ArcGIS Data Interoperability Desktop and Server
 - AGO Named Users no longer Unlimited
 - HUB - Optional in Year 1



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MIGRATION OF AGS INFRASTRUCTURE/MAPS2 TO 10.6

- Deployed 10.6 on failover Servers (same infrastructure as PROD)
- Agencies and OCTO currently testing
- Go-Live has not been announced. Likely late July/early Aug
- List of Improvements from 10.3.1 to 10.6
- Updated Public Safety Portal to 10.6 (June)





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GIS TRAINING

- April and May classes (Q3) at DCHR:
 - Overview and ArcGIS Desktop (2-day)
 - 31 students
- Special ArcGIS Online session for Hola Cultura/SYEP to support mural project (15 MBSYEP Interns)
- ArcGIS Online courses scheduled for August and September
- Waiting for July 20TH confirmation on ArcGIS Pro installation at DCHR before moving forward with scheduling Pro classes.





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OUTREACH

- DC Gov. GIS User Group:
 - 7 meetings (#8 tomorrow at 10AM)
 - Recent highlights:
 - **DOEE** field data collection (Survey123/Collector)
 - **DOC** custodial population (geocoding/address validation; choropleth mapping)
 - **DPW** looking at methods for collecting data along roadways
 - **DOH** Machine Learning
- DC Gov R User Group
 - Inaugural meeting July 25th

Want to **know more? Attend!** Tomorrow - contact Eva Reid for info





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LUCA PROJECT

DAVID JACKSON

Sr. GIS Analyst



WHAT IS LUCA 2020

- A US Census Bureau project that allows local governments to review and update the Census Bureau's Master Address File in preparation for the 2020 Census
- Allows local government to update Census' Edge File which contains streets, water lines, railroad tracks.





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PROCESS

- Census Allows **120 Calendar Days**
- Office of Planning & OCTO Leading effort
- **Data Sources:** Department of Corrections, Board Of Elections, DCHA, DMV
- Census Address Data Protected by **Title 13 privacy regulations.**

- Comparing Edge File
 - Census Edge File to **DDOT's Streets**
 - Census Edge File to list of street issue





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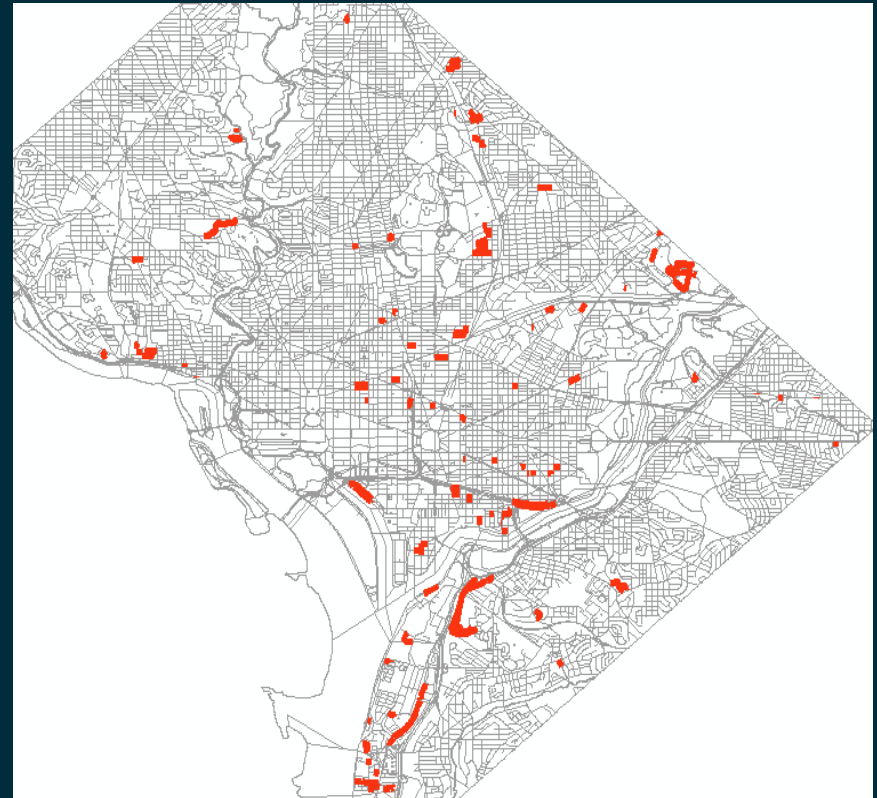
PROCESS

- Address File
 - Match Census Addresses to Local Addresses (MAR & Other Local Databases)
 - **Group Quarters** (University Dorms, Nursing Homes, Group Homes, Halfway Houses)
 - Delete **Invalid** Address
 - Err on Side of **Inclusion** (vs. exclusion)
 - Update Latitude / Longitude
 - Update Census Block
 - Update Zipcode



FINDINGS - EDGE FILE

Category	Number of Records	Example
Add Line	164	Named Alleys, Totten Mews, City Center, Georgetown University, The Wharf, Navy Yard, Fort Lincoln
Change Attribute	34	Updates Street Ranges, Street Name, Line Classification
Delete Line	47	DC Village, Audi Field, area, Military, Fort Totten





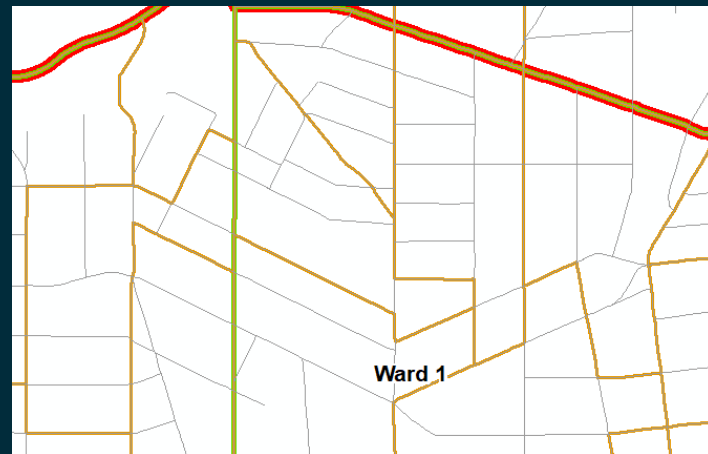
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FINDINGS - ADDRESS FILE

Category	Number of Records	Example
Add Address	Tens of Thousands	<ul style="list-style-type: none">• New Construction• Subdivided Rowhouses• Changed to Residential Address
Change Address	332,000	<ul style="list-style-type: none">• Change Latitude / Longitude• Change Census Block• Correct Misspelled Street Name• Change Zipcode
Delete Address	319	<ul style="list-style-type: none">• Address Number too high (above 9000)• Unit Absurd
Non Residential	0	<ul style="list-style-type: none">• Err on side of inclusion. Did not work on these.
Add Group Quarter	118	<ul style="list-style-type: none">• Nursing Homes• Halfway Houses• Group Homes• University Dorms

HOW DO WE BENEFIT?

- More **accurate count** of residents
 - Useful for **planning** purposes
 - Political Boundaries **Redistricting**
 - Wards
 - Advisory Neighborhood Commission (ANC)
 - Single Member District (SMD)
- **Increased Federal Dollars** for DC over the next decade
- Each extra housing unit counted = additional residents counted
- Extra residents counted = more Federal Spending over the next decade
- Will likely **bring in millions** of extra Federal **spending**





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MAR 2.0 TESTING RESULTS

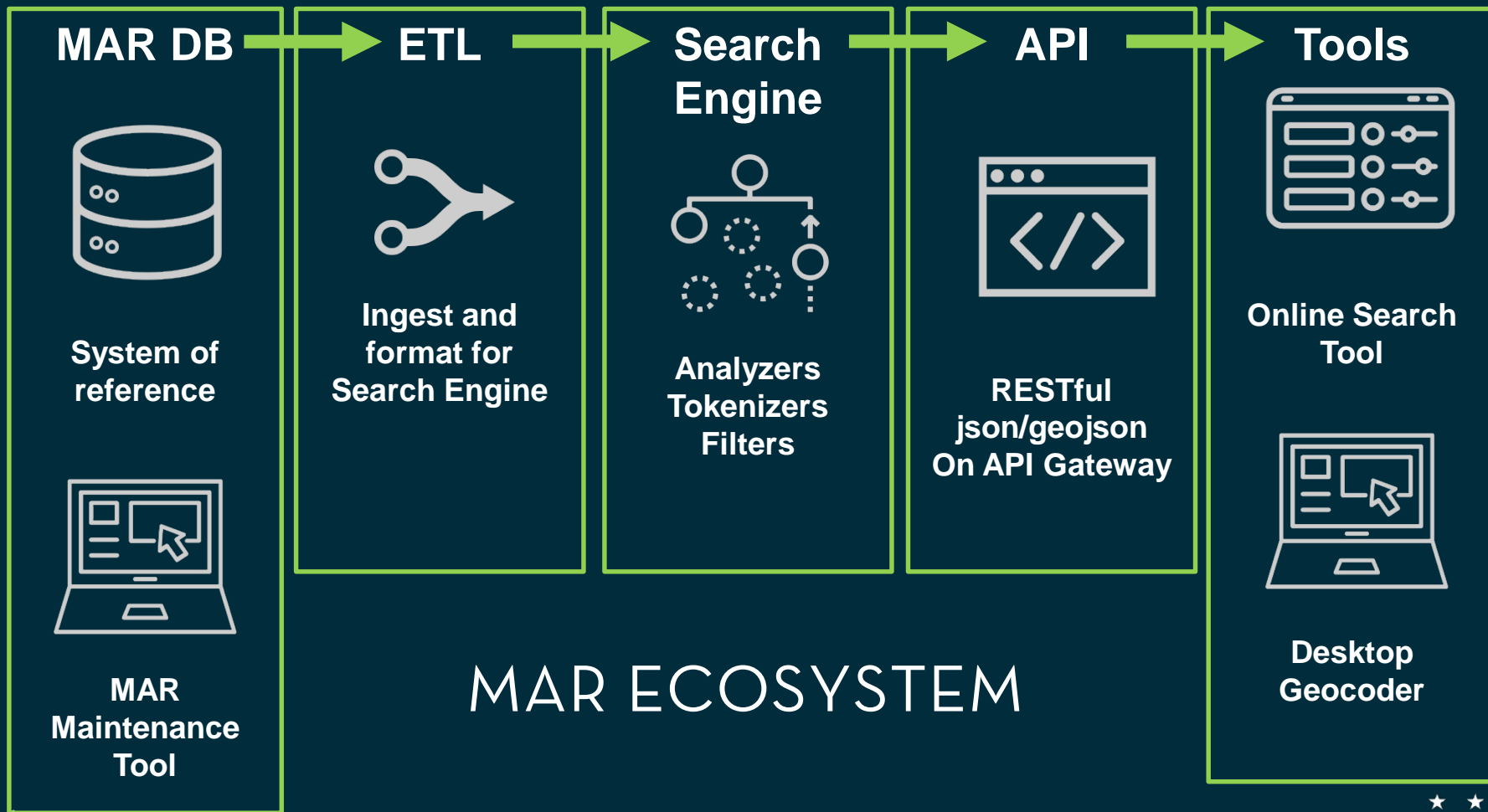
JULIE KANZLER

Program Manager, Data APIs & Systems





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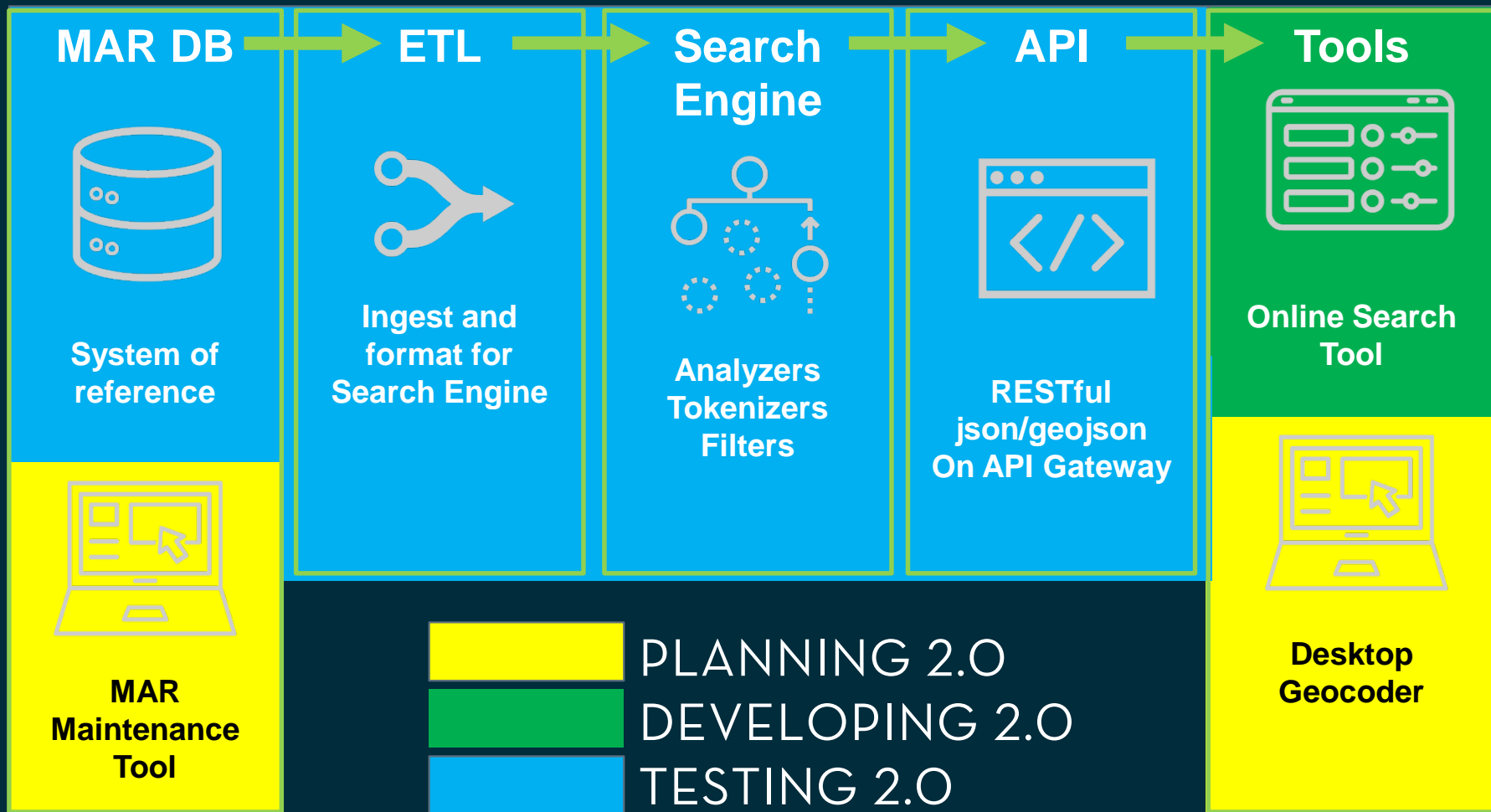


Images from <https://thenounproject.com>





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Images from <https://thenounproject.com>





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TESTING MAR 2.0

- Database testing
- API Load testing
- Search Engine Functional testing
- API Functional Testing
- Vulnerability Testing



FUNCTIONAL TEST RESULTS (API)

- Fixed 20+ issues
- Performance is similar to MAR where comparator baselines exist
 - Ex. Locations/[address] similar to FindLocation2 and ValidateAddress
 - Ex. No baseline for geometry results (MAR 1 only returns points)
- Known remaining issues
 - Special characters trigger error for GET requests (best example # in unit addresses)
 - Still expanding the list of abbreviations
 - If you find any missing let us know



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LOAD TEST RESULTS

- Passes for 17,000 users with concurrency of 200 on a single node
 - This will be doubled or tripled for production
 - Similar to ArGIS Server and other API / service load levels
 - Rate limits will be set at this level to ensure stability





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WHAT'S NEXT FOR YOU - MAR 2.0?

- **Managers:**
 - Begin planning for redevelopment of anything that uses MAR Web Service
- **Developers:**
 - Test with us, help us tune our search engine
 - Request access to postman test collection
- Everyone else: tell your managers and developers



POSTMAN





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REMINDER: WHY UPGRADE TO 2.0 NOW?

- Standardized output
 - Geojson (ready for mapping)
 - flat json (easily parsed)
- Cross origin resource sharing (no proxies)
- Get any and all information on an address just by asking for it (e.g., snow zones) and its geometry ready for mapping
- Lighten your code - all RESTful
- Lighten your load - lower burden on resources
- Handle larger addressing loads





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NO WORRIES

MAR 2.0 and 1.0 will be up in parallel for FY2019



DPW FIELD OPERATIONS

*GIS Use Cases & Needed Product Solutions –
Both Current and Future Consideration*

FIELD OPERATIONS AT DPW

- ▶ Street and Alley Cleaning
- ▶ Residential Trash and Recycling Collection
- ▶ Grounds Maintenance
- ▶ Curbside Leaf Collection

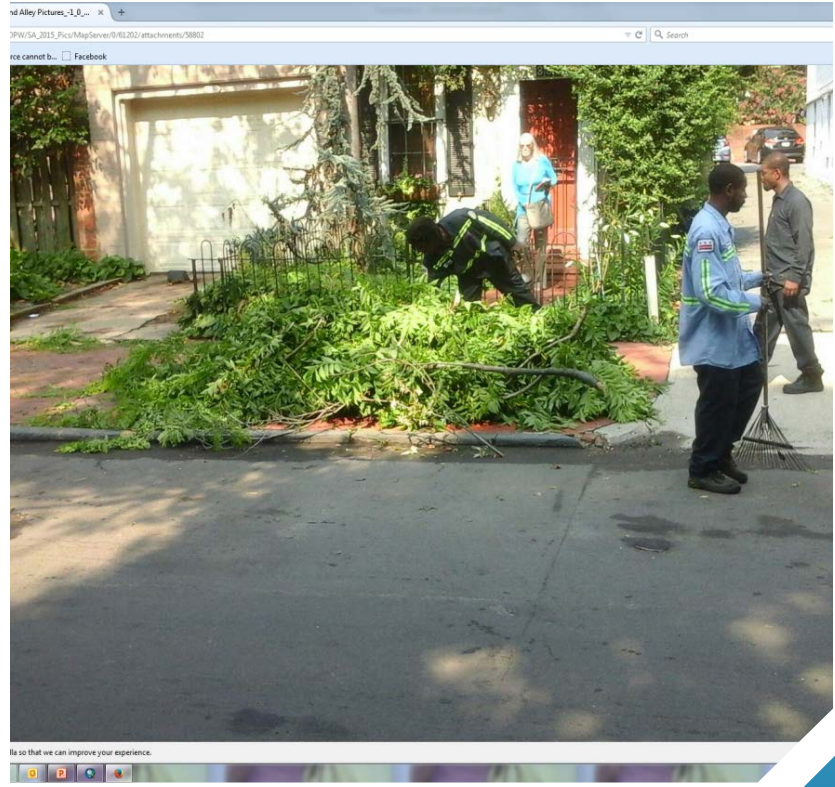
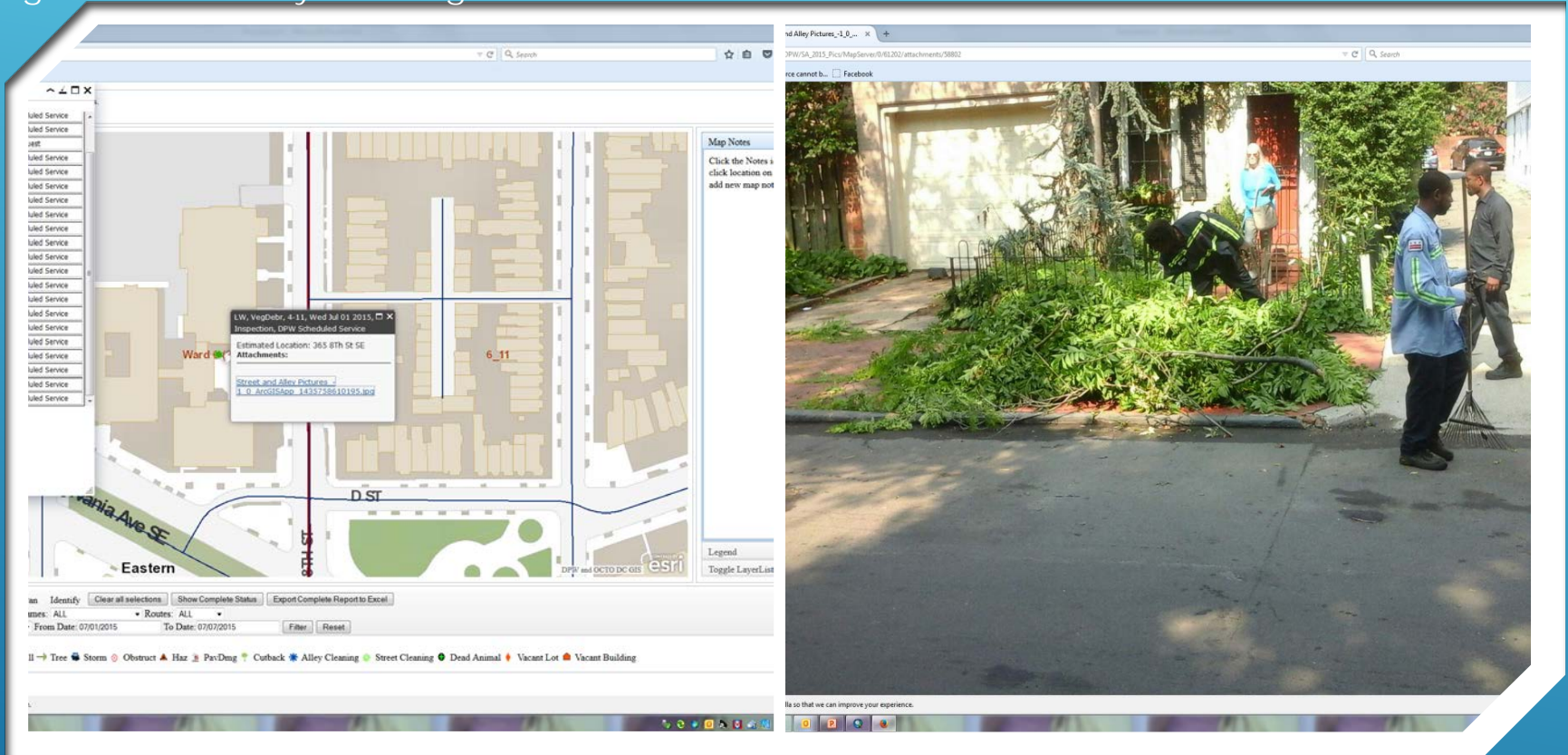


Vehicle-based – e.g. Collections



Manual Labor

- e.g. Street and Alley Cleaning



FIELD OPERATIONS REQUIRE MONITORING AND TRACKING

- ▶ Recording blocks/sites as they are completed
- ▶ Recording before and after pictures/video
- ▶ Recording service requests or appointments that are closed out
- ▶ Supervisor sign-off
- ▶ QA/QC verification

PURPOSES OF OPERATIONS TRACKING

- ▶ Managerial knowledge
- ▶ Supervisory Control
- ▶ Deployment Adjustments
- ▶ Communication to Public
- ▶ Proof of Work Completed
- ▶ QA/QC and Timely Corrective Actions



Tracking Tools – Strengths and Limitations

	AVL	Mobile Device Applications	Pictures/Video
Strengths	Tracks where vehicles go and Route Completion reporting is useful for vehicle-based operations	Collects specific data about activities and results. Data can be entered into a database and can be queried	Provides visual proof of situations at a specific time and location
Limitations	Doesn't always prove work was done at those locations and customized usage of AVL data is needed.	Requires specific field worker input on top of their assigned tasks. Training, support, and mentoring is needed. Inconsistent adoption, wireless signal dead zones impede successful implementation	Pictures don't always show exactly what needs to be shown and provide limited data for a database outside of X,Y coordinates and timestamp

REPORTING SCHEDULES AND STATUS

- ▶ Schedules assigned by area or block
- ▶ Real time status dashboards
- ▶ GIS mapping of sites and blocks to show status geographically
- ▶ Pictures associated with X, Y coordinates to show cleared streets and mowed sites
- ▶ Maps and aerial photos to show specific sites



GROUNDS MAINTENANCE – FIELD DATA ENTRY TO REAL-TIME DASHBOARD STATUS FOR MANAGERS IN THE OFFICE

Test Driver - TODAY ▾
3 items, sorted by Job ID

J-0000017826
Site: 300 - 499 BLOCK OF MICHIG...
Site Addr... 300 - 499 BLOCK OF MICHIG...
Ward: 1
Grass Mo... SCHEDULED
Schedule... 3/27/2018

J-0000017827
Site: 300 - 499 BLOCK OF MICHIG...
Site Addr... 300 - 499 BLOCK OF MICHIG...
Ward: 1
Grass Mo... SCHEDULED
Schedule... 3/27/2018

J-0000017828
Site: 300 - 499 BLOCK OF MICHIG...
Site Addr... 300 - 499 BLOCK OF MICHIG...
Ward: 1

Filter Sort



Home Accounts Jobs Reports Dashboards

Grounds Maintenance - DPW & Contractors Dashboard

Find a dashboard... Refresh As of Today at 1:50 PM

Filter By: Scheduled Date equals TODAY Verified Date

All Jobs - Scheduled by Ward

Ward	Record Count
0	15
1	15
2	12
3	10
4	40
5	42
6	25
7	45
8	48

All Jobs - Mowing Status by Ward

Ward	SCHEDULED	RESCHEDULED	SUPERVISOR-COMPLETED
0	10	6	2
1	12	1	1
2	9	10	5
3	12	24	23
4	6	8	4
5	13	9	1
6	32	1	1
7	1	1	1
8	1	1	1

All Jobs - Verified Status by Ward

Ward	Unverified	Pass Verified	Failed Verified
0	16	0	0
1	13	0	0
2	11	0	0
3	34	5	0
4	38	2	1
5	25	0	0
6	42	0	0
7	0	0	0
8	0	0	0

All Jobs by Mowing Status

Status	Count	Percentage
SCHEDULED	88	46%
RESCHEDULED	48	25%
SUPERVISOR-COMPLETED	3	2%
Total	139	

All Jobs by Verified Status

Status	Count	Percentage
Unverified	8	4%
Pass Verified	1	1%
Failed Verified	1	1%
Total	10	

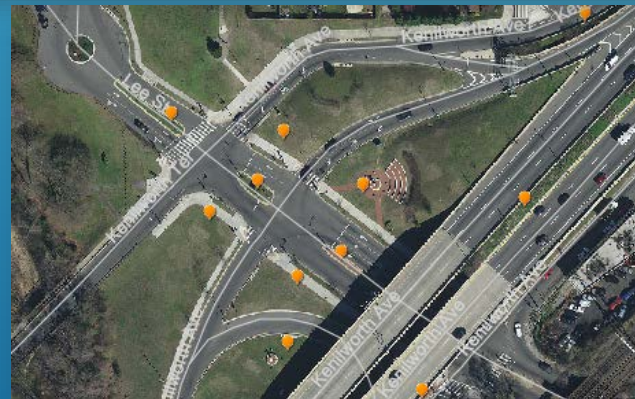
All Jobs - Mowing Status/Verified Status

Mowing Status	Verified Status	Record Count
SCHEDULED	Unverified	88
SCHEDULED	Pass Verified	0
SCHEDULED	Failed Verified	0
RESCHEDULED	Unverified	48
RESCHEDULED	Pass Verified	0
RESCHEDULED	Failed Verified	0
SUPERVISOR-COMPLETED	Unverified	3
SUPERVISOR-COMPLETED	Pass Verified	0
SUPERVISOR-COMPLETED	Failed Verified	0

66	295 & Nannie Helen Burroughs NE	7	2130 Highway Median
----	---------------------------------	---	---------------------

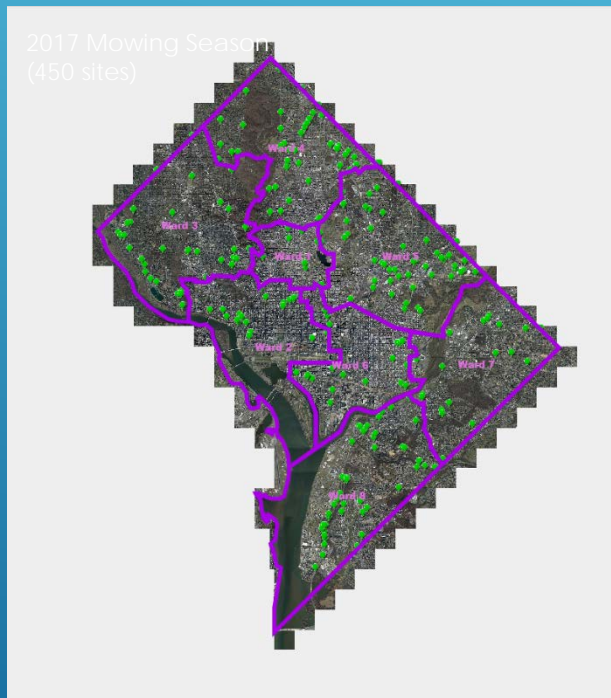


130	Kenilworth Ave & Nannie Helen Burroughs NE (A)	Triangle	7
131	Kenilworth Ave & Nannie Helen Burroughs NE (B)	Triangle	7
132	Kenilworth Ave & Nannie Helen Burroughs NE (C)	Triangle	7
133	Kenilworth Ave & Nannie Helen Burroughs NE (D)	Triangle	7
134	Kenilworth Ave & Nannie Helen Burroughs NE (E)	Triangle	7
135	Kenilworth Ave & Nannie Helen Burroughs NE (F)	Triangle	7
136	Kenilworth Ave & Nannie Helen Burroughs NE (G)	Median	7
137	Kenilworth Ave & Nannie Helen Burroughs NE (H)	Median	7



SITE LOCATION
EXAMPLE

GROUND MAINTENANCE SITE COMPARISON



Ward 8 Beautification – Federal Grant

The screenshot displays a mobile application interface. At the top, a status bar shows various icons (Wi-Fi, cellular, battery) and the time 10:27 AM. Below the status bar is a navigation bar with a checkmark icon and the text "Details". The main area is split into two panels. The left panel is a map showing a residential street grid with several orange location pins. The streets labeled are MARTIN LUTHER KING JR AVE, ELMIRA ST SW, FORRESTER ST SW, and GALVESTON PL SW. The right panel is a "Details" view for a specific location. It features a title "QA and QC Street and Alley Pictures 2016" with coordinates "long:-77.010221 lat:38.824797". Below the title are fields for "DATE" (May 18, 2016), "MONITOR", and "QC ROUTE". An "ATTACHMENTS" section contains four thumbnail images of street scenes, each with a filename and "Downloaded" status.

Details

QA and QC Street and Alley Pictures 2016
long:-77.010221 lat:38.824797

DATE
May 18, 2016

MONITOR

QC ROUTE

ATTACHMENTS

..ISApp_1463584365416.jpg
Downloaded

..ISApp_1463584452098.jpg
Downloaded

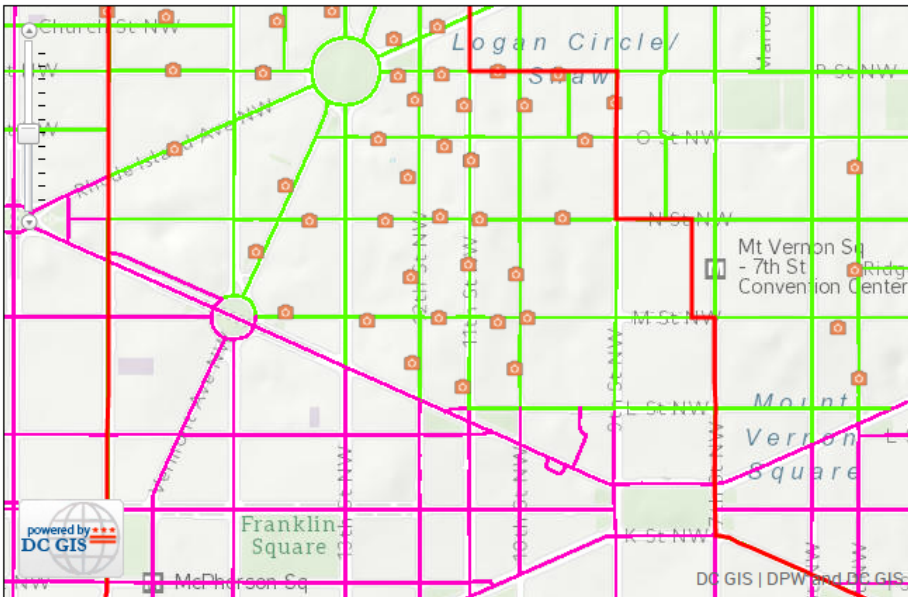
..ISApp_1463584685844.jpg
Downloaded

..ISApp_1463584407026.jpg
Downloaded

Leaf Collection

Status map as of 7/16/2018

Zoom In Zoom Out Full Extent Pan



Pass 1: — Pass 2: — Pass 3: — No Collection: — Photo (clickable on map):

Search Criteria

1. Enter part or all of any address in the District of Columbia (example: 441 4th Street NW):

441 4th Street NW

2. Select the matching address from the list below (Note: If no address is found, please try entering another address):

441 4TH STREET NW

Search

Your address is in the leaf collection area: 2A

Pass	Scheduled Start Date	Scheduled Finish Date	Actual Finish Date
1	11/06/17	11/10/17	N/A
2	12/04/17	12/08/17	N/A
3	N/A	N/A	N/A

07/16/2018 00:00 -> 07/17/2018 00:00 US/Eastern | Vehicles: All | Drivers: 0

Time & Resources

All vehicles selected

Select all vehicles

Advanced Reporting

Reporting

Mapping

Route Completion

Administration

Device Management

Miscellaneous

Preferences

Mapping

Tools

Dynamic

Options

Auto Refresh

Map Toolbar

Vehicle Bottom

Has Recently Reporting

Breakdown Traffic

Color Legend

Connecting Lines

Search Result: Vehicle History

Download List

Playback

Vehicle	Last Record	Landm...	Street	City	State	Latitude	Longit...	Speed	Direction	Driver	Reason
5011877	2018-07-16 05:3...	DDOT ...	1249 W St NE	Washin...	DC	38.9182	-76.98...	0	N		Ignition On
5011877	2018-07-16 05:3...	DDOT ...	1249 W St NE	Washin...	DC	38.918...	-76.98...	0	N		Time Stop ...
5011877	2018-07-16 05:3...	DDOT ...	1249 W St NE	Washin...	DC	38.918...	-76.98...	0	SW		Time Stop ...
5011877	2018-07-16 05:4...	DDOT ...	1249 W St NE	Washin...	DC	38.918...	-76.98...	0	SW		Time Stop ...
5011877	2018-07-16 05:4...	DDOT ...	1249 W St NE	Washin...	DC	38.918...	-76.98...	0	SW		Time Stop ...
5011877	2018-07-16 05:4...	DDOT ...	1249 W St NE	Washin...	DC	38.918...	-76.98...	13	N		Start
5011877	2018-07-16 05:4...	DDOT ...	1249 W St NE	Washin...	DC	38.918...	-76.98...	11	NW		Time Send
5011877	2018-07-16 05:4...	DDOT ...	1249 W St NE	Washin...	DC	38.918...	-76.98...	31	W		Time Send

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Displaying 1 - 100 of 1645

Version: 3.3 SP1

Time & Resources

Today
Time Zone: (GMT-4:00) US - Eastern

Dashboards

Advanced Reporting

Reporting

Mapping

Route Completion
[Overview](#)
[Reschedule](#)
[Track](#)

Administration

Device Management

Miscellaneous

Preferences



Search Results: Vehicle History

Vehicle	Last Record	Landm...	Street	City	State	Latitude	Longit...	Speed	Direction	Driver	Reason
3011877	2018-07-16 05:3...	DDOT	1249 W St NE	Washin...	DC	38.9182	-76.98...	0	N		Ignition On
3011877	2018-07-16 05:3...	DDOT	1249 W St NE	Washin...	DC	38.918	-76.98...	0	N		Time Stop
3011877	2018-07-16 05:3...	DDOT	1249 W St NE	Washin...	DC	38.918	-76.98...	0	SW		Time Stop
3011877	2018-07-16 05:4...	DDOT	1249 W St NE	Washin...	DC	38.918	-76.98...	0	SW		Time Stop
3011877	2018-07-16 05:4...	DDOT	1249 W St NE	Washin...	DC	38.918	-76.98...	0	SW		Time Stop
3011877	2018-07-16 05:4...	DDOT	1249 W St NE	Washin...	DC	38.918	-76.98...	18	N		Start
3011877	2018-07-16 05:4...	DDOT	1249 W St NE	Washin...	DC	38.918	-76.98...	11	NW		Time Send
3011877	2018-07-16 05:4...	DDOT	1249 W St NE	Washin...	DC	38.918	-76.98...	31	W		Time Count

Page 1 of 17 | Displaying 1 - 100 of 1645

Fleet Center | Dan Lippold

Secure | https://att.webtechwireless.com/sizzles.com/webtechwireless/quadrant/Quadrant/Quadrant.jsp?initTimeZone=US/Eastern&initSubApp=MappingNavMenu&ticket=CD70810A1E49895899509995C999A325&locale=en_US#RC106

David Koebler dkoebler | IBM & WebTech University | Log out

07/16/2018 00:00 → 07/17/2018 00:00 US/Eastern | Vehicles: All | Drivers: 0

Time & Resources

All vehicles selected

Select all vehicles

- Dashboards
- Advanced Reporting
- Reporting
- Mapping
- Route Completion
 - Download
 - Recycle Bin
 - Trash
- Administration
- Device Management
- Miscellaneous
- Preferences

Mapping

Route Completion Detail - Trash

Download List


Route Group	Route	Segment	Road Name	Completed	# of Passes	Required Passes	Alert
Monday	304_1	893659	26th St	Yes	1	1	●
Monday	304_1	893672	27th St	Yes	4	2	●
Monday	304_1	893705	27th St	Yes	16	2	●
Monday	304_1	893716	27th St	Yes	1	1	●

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Displaying 1 - 91 of 91

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UPCOMING TECHNOLOGIES

- ▶ Automated Imagery Capture (e.g. Mapillary) to provide situational documentation at place and time of our choosing with minimal impact on crews and supervisors
 - ▶ Field Access, Dispatch, and Close out of Service Requests with supporting pictures
- 
- A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, set against a blue gradient background.

Leaf Collection

Status map as of 7/16/2018

Zoom In Zoom Out Full Extent Pan



Pass 1: Pass 2: Pass 3: No Collection: Photo (clickable on map):

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Your address is in the leaf collection area: **2A**

Pass	Scheduled Start Date	Scheduled Finish Date	Actual Finish Date
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2	12/04/17	12/08/17	N/A
3	N/A	N/A	N/A



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GIS 2.0 DATABASE @ ORACLE 12C AGENCY DATA SUBMISSION PROCESS NEWLY PUBLISHED & UPDATED DATA

MARIO FIELD

Program Manager, Data Curation





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DATA SUBMISSION PROCESS

Review other jurisdictions

New York State

New York City

Chicago

Seattle

San Francisco

Maryland

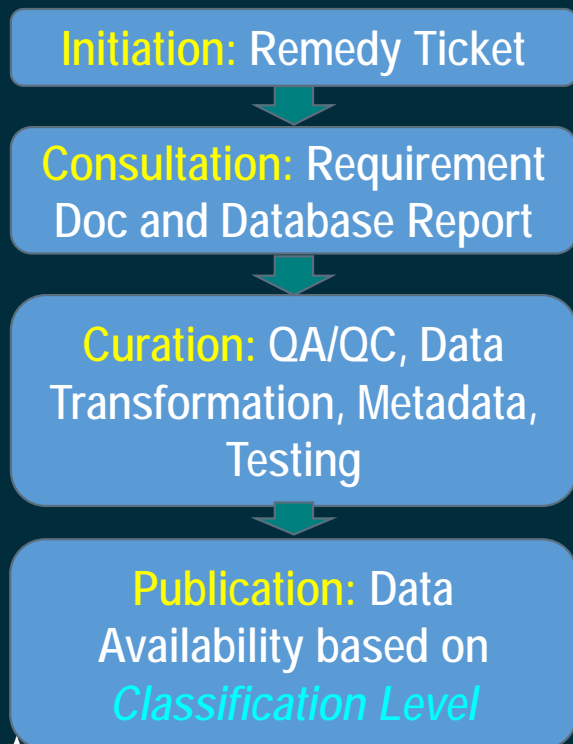
Findings

New York State has the most comprehensive documentation (roles, responsibilities, processes, dataset rules, etc.)

Others provided more overall/general processes and steps.



DATA SUBMISSION PROCESS



- Initiation: Remedy ticket starts the process, generally documenting dataset information.
- Consultation involves working with the customer to define the dataset requirements and specifications. Requirements document defines what the data is and curation process.
- Curation process uses the specifications in the requirements document and processes the data. Data goes through QA/QC, documentation, testing, and final ETL development.
- Publication involves posting the data to the appropriate platforms following the dataset classification level.



CUSTOMER SERVICE. ACCOUNTABILTY. EFFICIENCY. SECURITY.

GIS 2.0

- Development and Test Databases Created
- Outline of workflows
- Production database being used for testing on Exadata and Open data tuning
- Next, Map services publishing to AGS 10.6
- Testing is important:
 - **ATTRIBUTION IS MORE CONSISTENT AND HAS CHANGED**
 - Clear delineation of current vs. historic layers
 - Schema name has changed for those layers





CUSTOMER SERVICE. ACCOUNTABILITY. EFFICIENCY. SECURITY.

DATA POSTINGS

- Bus Line
- Bus Stop
- Camera Enforcement
- Community Garden
- *Community Supported Agriculture*
- *District Development (WDCEP)*
- District Property
- *Emergency Food Provider*
- *Food Commercial Kit*
- *Food Waste Drop Off*
- Impervious Surface 2017
- Liquor License
- *Hunger Heat Map*
- Impervious Surface
- *Group Meal Center*
- *Healthy Corner Store*
- *Joyful Market*
- *Low Food Access Area*
- Notary Public
- Office Aging Lead Agency Site
- Other Bus Line
- Planimetric Redaction Area
- *School Garden*
- Transportation Analysis Zone
- *Urban Agriculture*
- *Women Infant Child (WIC) Store*
- Ward





CUSTOMER SERVICE. ACCOUNTABILITY. EFFICIENCY. SECURITY.

DATA POSTINGS

- *Adopt-A-Block*
- *American Community Survey*
- *Bridge Line*
- Building Permit (2009 -2011)
- Business Improvement District
- Charter School
- Commission of Fine Arts Review Area
- DC Property
- *Felony Arrest and Crime*
- Fire Station
- Fitness Center
- Heliport
- Historic Preservation Trust Fund
- HIV/AIDS Clinic
- Hub Zone
- *Juvenile Arrest*
- Library
- Leaking Underground Storage Tank
- Main Street
- Military Area
- Moving Violation
- Notary Public
- *Parking Meter*
- Public School
- Public School - Closed
- Public School - Next Year
- Public School Summer
- School Garden
- *Shotspotter*
- *Stop and Frisk*
- Summer Crime Initiative Area
- Summer Camp
- Supermarket Tax Credit Zone
- Traffic Volume (2010 - 2016)
- University Area
- Underground Storage Tank





CUSTOMER SERVICE. ACCOUNTABILITY. EFFICIENCY. SECURITY.

DATA POSTINGS

- ATMs
- *Adopt-A-Block*
- Bank
- Bridge
- *CBEs including SBE designation*
- Check Cashing
- Clean Teams Area
- Crash
- *Credit Union*
- DC property
- Independent School
- Moving Violation
- Notary Public
- Parking Violation
- Polling Place
-





CUSTOMER SERVICE. ACCOUNTABILITY. EFFICIENCY. SECURITY.

NEXT DATA POSTINGS

- PASS contract data
- Pipeline automated reports
- Basic Business License automation
- Summer Meals
- P-card
- MySchool Summary Lottery Results

