

ride DC

Mid-Atlantic User Conference 2013

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district department of transportation

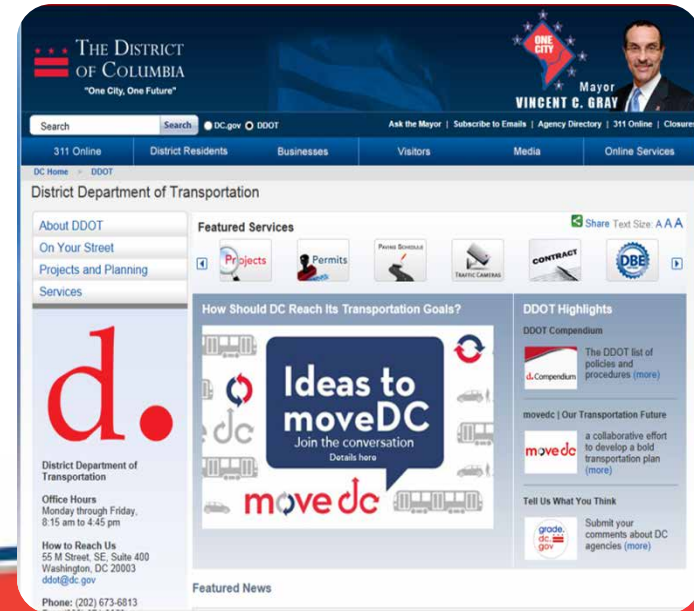
Agenda

- Introductions
- Background
- Live Demo
- Technical Approach
- Lessons Learned
- Future



Introductions

- José Colón, CIO
 - District Department of Transportation
- Tim Abdella, GISP
 - JMT TG DC Regional Director



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Background

- Provide DC retail establishments with a web-based tool that allows any user to create a dynamic dashboard of transit options for their establishment.
- Near real-time information about multi-modal transportation options and locations on the map.

ride dc Provides Map & Info:

- Metro Bus / DC Circulator schedules and Nextbus updates
- Metrorail arrival predictions
- Capital Bikeshare bike and open dock availability
- Car sharing location and car availability



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The Physical Display

- Not interactive – it is designed to be looked at
- Hardware: HD Monitor or TV (1080P)
 - at least 30 inches in width.
- Browser: Latest version of Chrome, Firefox, Safari or IE.
 - Built on HTML 5 / JavaScript
- Internet connection – SOA based solution leveraging AGO



Demonstration

- Public site –
 - Coming soon.....
 - ddot.dc.gov



- JMT Staging server:
 - <http://retaildashboard.stage.applications.jmt.com>

Architectural Dive

Browser

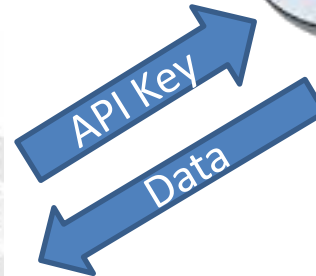


Live Data Feeds



DDOT Server:

- Hosting
- User info
- API Keys
- Data Cache



Lessons Learned

- Various API's
 - Need to be Simplified through standards like GTFS-realtime
- Limits on Data Calls
 - Providers throttle number of hits
- Licenses and Agreements
 - Everyone requires a Token \ Key
- Cache
 - “live” is interesting – Cache for stability



Future

- Public Release hosted by DDOT
- GeoEvent Processor?
- Visual refinements:
 - Highlight / Flash stops and routes
 - Interpolation algorithms to smooth moving elements (buses, trains).
 - Add new transit options (streetcar, Hail-o, etc.)



Connect with us

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Thank You

- Questions?

