

dataMontgomery: Setting Up a Solid Open Data Foundation

Maryland Council on Open Data October 3, 2014

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- 1,000,000 population
- \$4.97B Total Approved budget
- Enterprise Project Deployment Highlights:
 - ERP system
 - 311 system & call center
 - Electronic timesheet reporting
 - Tax Assessment System Implementation
 - Public Safety Systems Modernization (in process)
 - Open Government initiative (including dataMontgomery)



Agenda

1	Introduction
2	Getting Started
3	Setting up a Framework
4	Making a Plan
5	Open Data Outcomes and Future Plans
6	Opportunities and Closing Thoughts





Executive Branch Open Data Pilot 2012

- Project Charter approved by DTS CIO
- Established project governance
- Outreach and education to departments on the potential benefits of an open data program

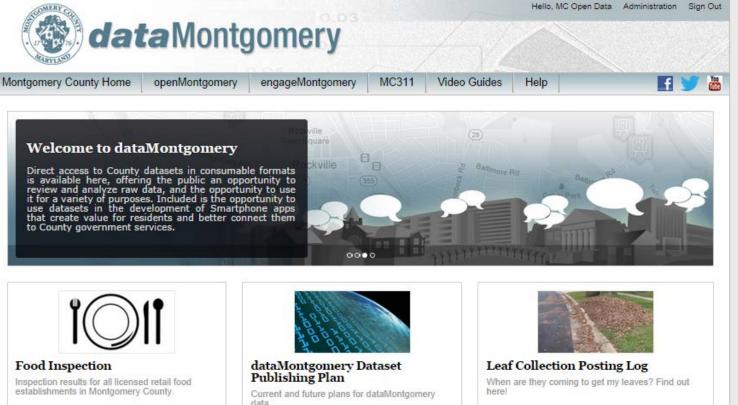
Montgomery County's Open Data Act

- Enacted on December 4, 2012
- Provide a centralized site to publish County data
- Develop a Technical Standards Manual for publishing public data
- Develop an Open Data Implementation Plan, including an inventory of all public data and a schedule for publication to be updated annually
- Publish Maryland Public Information Act Responses



dataMontgomery Overview

dataMontgomery Launch – December 2012



dataMontgomery today – Almost 50 datasets representing multiple departments:

- Employee Salaries
- Food Inspection Data
- Permits
- Traffic Violations
- Budget, Spending and Contract Data



Technical Standards Manual

- Defines the technical standards for the publication of a public dataset on dataMontgomery
- Internal Data Format in preparation to load to dataMontgomery:
 - Data should be in raw, structured form (disaggregated)
 - Geocoding should be used wherever possible
 - Manual and automated processes for uploading data
- External Data Format for public use
 - Export format and API defined by our vendor

Open Data Implementation Plan (ODIP)

- Must inventory, prioritize and schedule public datasets for publication
- Required by law 18 months after Open Data Act effective date
- Required by law to be updated annually
- In addition, the ODIP and supporting Open Data Operations Manual (ODOM) details many aspects of the County's Open Data Program, including program governance, data inventory process, establishing publishing priority for datasets, data privacy concerns, processes for revising the data inventory and priorities, etc.



Start small with a "pilot" or "proof-of-concept" project

- Begin with compelling, "non-controversial" datasets
- Look for data that is already published in other forms

Clearly define the purpose for publishing data

- Transparency and accountability in government
- Improve efficiency in report generation, MPIA requests
- Increased communication and engagement with citizens
- Easy and inexpensive collaboration and data sharing among departments, agencies and other government organizations

Formalize it

- Project Charter signed by an Executive Sponsor
- Project Governance document to establish roles, governing bodies, authority to publish data



Executive Steering Committee

- Chaired by County Executive's Office, includes CIO and directors
- Governing executive body that is responsible for supporting and resolving any issues that effect the open data project

dataMontgomery Working Group

- Members from County Executive's Office, Public Information Office, Office of County Attorney, Department of Technology Services, CountyStat Office
- Establishes priorities for datasets in the pipeline
- Reviews selected datasets prior to publication. (Examples: Datasets that span multiple departments or datasets containing politically sensitive subject matter)
- Escalates issues (with recommendations) to the ESC

Departments

- Department director must sign off on all datasets owned by the department
- Department must identify personnel to respond to questions about the dataset



Dataset Identification

Defines the scope, source location, timeframe, purpose and potential uses of the data

Dataset definition

Data schema is defined for all data columns and criteria for any rows to be included/excluded

Identify the Data Owner (or Data Team)

- The Data Owner is the "data expert" for the department that owns the data.
- The Data Owner knows how the data is derived and formatted.



Legal Authority – Review Process

- Establish that the data is owned by the publishing organization
- Establish that the data may be published in accordance with all applicable laws (PCI, HIPAA, Privacy / PII)

Executive Level Authorization

Montgomery County's dataMontgomery program requires department directors to authorize the publication of data owned by their department

Datasets Impacting Multiple Departments

- Montgomery County has established a Working Group & Steering Committee structure to review and approve publication of datasets impacting multiple departments
- Example: 311 Call Center data



Policy to Automate <u>All</u> Datasets

- Remove room for manual delays or errors
- Enables us to refresh data more frequently
- Enterprise Service Bus (ESB) Technology Enables Automatic Updates from:
 - Spreadsheets
 - Databases
 - MS Access Databases
 - Maps

What if something is wrong?

eMail notifications built in to notify owning Department and dataMontgomery team



What did we need to do?

- Inventory datasets available Countywide
- Prioritize datasets
- Compile an implementation plan

Tools Available:

- Countywide application inventory
- Resources from dataMontgomery team
- Open data product

Challenges

- Involving all Departments in inventory effort
- Determining objective method to rate datasets
- Clock was ticking....



Dataset Pipeline Team

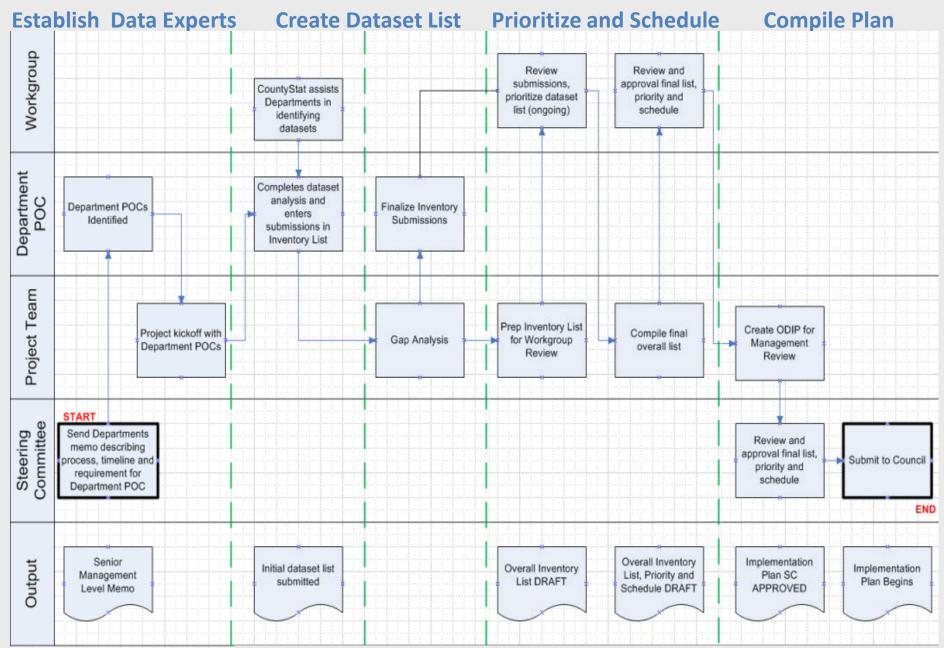
- CountyStat Analysts (Internal Data Experts)
- Chief Innovation Officer (External Stakeholder Liaison)
- Department Points of Contact (Department Data Experts)
- dataMontgomery Workgroup and Steering Committee
- dataMontgomery Project Team

Ramping Up

- Centralized Tool for Dataset Submissions
- Department Points of Contact Education
 - What is open data and dataMontgomery
 - What is a "dataset"
 - How to inventory
 - Recurring meetings and ongoing education
- Determine dataset prioritization method and timeline



Dataset Pipeline Strategy (9-month process)







Is the data aligned with the core function of the department?

Do we use this data to measure performance?

Will this data save us administrative time?





Will this data foster collaboration across departments?

Will this data allow us to retire a legacy system?





Is the data typically used to decide policy?

Will this data make life easier for a resident or business?

Are we the only source of this data?

Will this data contribute to civic engagement?

Will this data create economic opportunity?



Will this data improve public knowledge of the function of a department?



- Educating the Resident on
 - our Open Data Act and what we are required to do

Describing

- How we identified and prioritized datasets
- Near and long term dataset plan

Plan Objective

- Comply with Open Data Bill and produce plan
- Provide a way to communicate our plans and obtain feedback from both County Council and the public



A prioritized inventory of 550+ datasets

A government full of open data champions

An open data program with public buy-in



Community Outreach



Open Data Town Halls

What data does the public want to see

Data centric Focus Groups

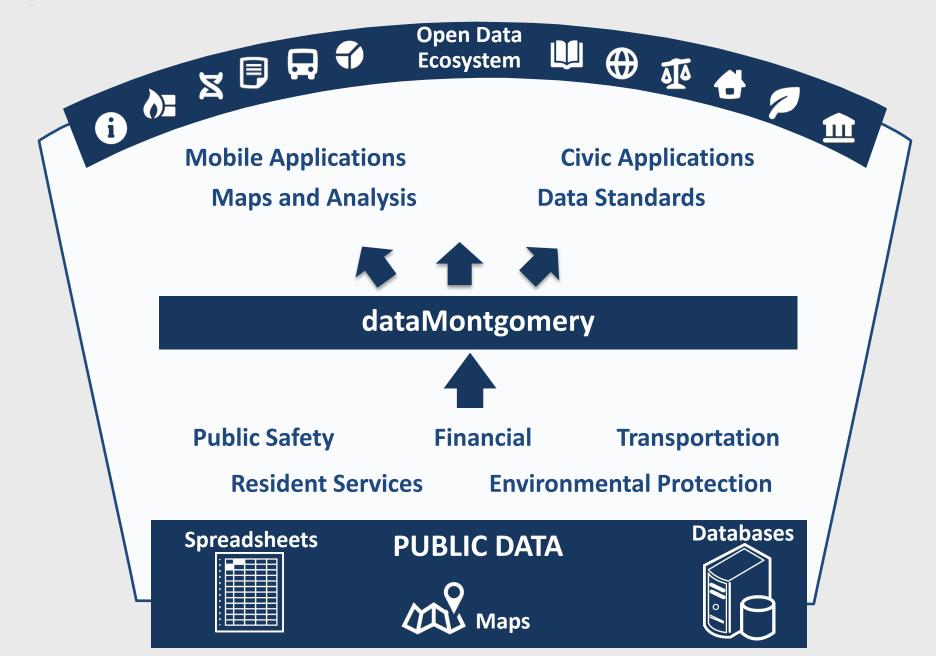
- Neighborhood Crime
- Financial Transparency

General Feedback

Taxonomy (How we categorize datasets)

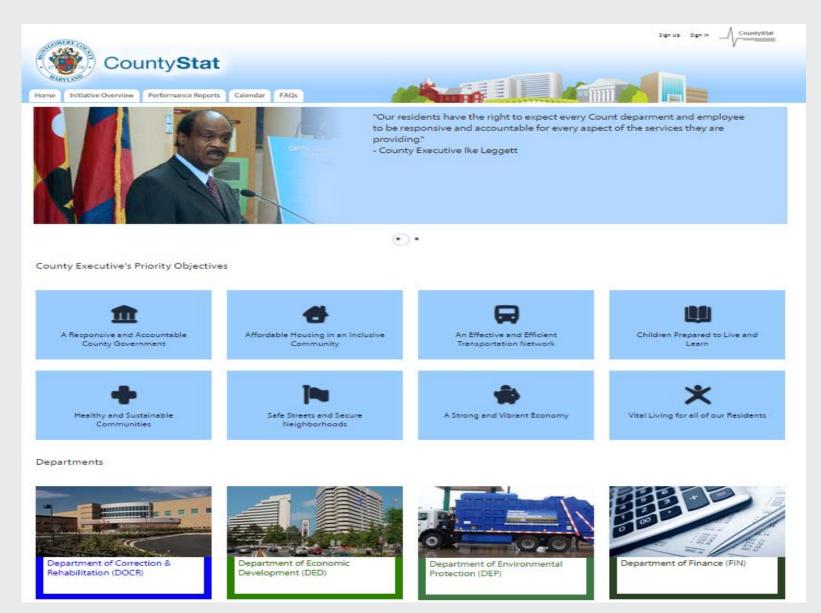


Gaining Value by Extending our Open Data Platform





Measuring County Performance





Operating Budget and

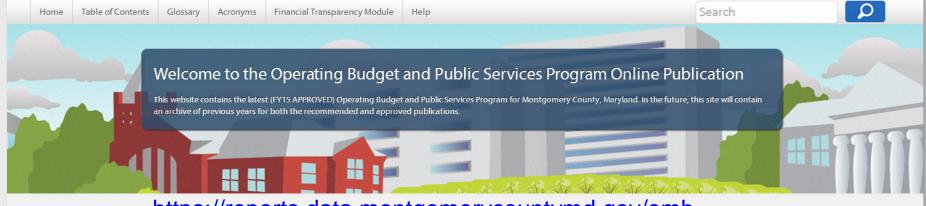
Public Services Program

Online Budget Book





Office of Management and Budget Montgomery County Maryland



https://reports.data.montgomerycountymd.gov/omb



Budget Overview

Includes County Executive's message, budget highlights, debt service, mission statement, about montgomery county, fiscal policy, revenues, Workforce / Compensation, Capital Improvements Program, credits, director's memorandum, and how to read the budget.

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Health and Human Services

Includes Aging and Disability Services, Behavioral Health Crisis Services, Children, Youth and Family Services, Public Health Services, Special Needs Housing, Administration and Support.



Agency Summaries

Includes Montgomery County Government, Montgomery County Public Schools, Montgomery College, Maryland-National Capital Park and Planning Commision, Housing Opportunities Commission, Revenue Authority and Washington Suburban Sanitary Comission, Cable Commincation Plan, Liquor Control, Non-Departmental Accounts, Utilities



Libraries, Culture and Recreation

Includes Community Use of Public Facilities, Public Libraries, Recreation

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Complex budget data presented
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budgetMontgomery

Welcome to budgetMontgomery

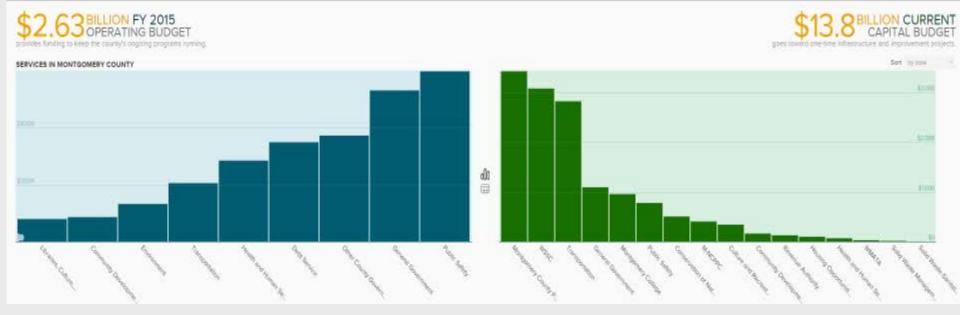
In 2012. Montgomery County lounched dataMontgomery as part of its openMontgomery initiative, a program designed to promote greater transparency and accessibility to residents. Our next step towards transparency and greater engagement is to provide a guided view to complex financial information, such as budget data. This site, budgetMontgomery, will provide you with a way to understand how our budget is structured and get the answers you need. It has rich content such as charts, graphs and maps to view our budget from different levels, such as how much we budget for services, Departments, programs and capital improvement programs. You also have the ability to convert the graphs to table view and downloss the two data.

Simply click on a bar in each bar chart to drill down for further information, or click on one of the bubbles in the map to wew project details from the Capital Budget.





http://budget.data.montgomerycountymd.gov/





spendingMontgomery

Montgomery County

Show the biggest spenders v within the entire ledger v paying (any vendor) v for (any category) v

D Search y f

Welcome to spendingMontgomery

In 2012, Montgomery County launched <u>dataMontgomery</u> as part of its openMontgomery initiative, a program designed to promote greater transparency and accessibility to residents. Our next step towards transparency and greater engagement is to provide a guided view to County spending data. This site, spendingMontgomery, will provide County stakeholders with a multi-faceted view into the ways Montgomery County spends public funds. This data will be updated on a quarterly basis.

The interface is highly interactive, inviting you to click your way through summary information down to a detailed payment level. One can see how much the County spends, what we spend it on and who we do business with. You also have the ability to convert the graphs to table view and download the raw data.

Start your exploration by either clicking on items of interest on the charts below, or build your own question using the drop down options in our interactive tool ber (on the top and side of this page).

8 Read More



or simply select a tab or bar below to get started





Results of Informal Survey Sent to Departments

- Types
 - Data that gets loaded into our systems for use
 - Data that compares counties or cities to one another
 - Ongoing reports
- Examples
 - SDAT property tax data
 - School data
 - Traffic and pedestrian collision/injury/fatality data
 - Uniform Crime Report
 - Grants data
 - Consolidated Transportation Plan
 - Election data
 - State-issued permits and licenses



Keys to a Successful Open Data Program

Maryland Data Community Opportunities

- Collaborative approach to identifying common data standards
- Solution sharing with common datasets (responses to MPIA requests)

- dataMontgomery Resources Available
 - Technical Standards Manual
 - Operations Manual