Government Open Data

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Agenda

- What is Gov. Open Data?
- Why it is important?
- Open Data Strategies
- Open Data @ UNT
- Economical impact
- Future Studies
What is Open Data?

publicly available data structured in a way that enables the data to be fully discoverable and usable by end users.
How Open Data Started?

- In 2009, the federal move toward Transparency and Open Government [www.data.gov](http://www.data.gov). This gave local and federal governments the support needed to create open data initiatives. (Townsend, 2013)

- Community groups such as OpenChicago and OpenOakland, started to take ownership and organize their own events to solve certain problems local problems (Goldstein and Dyson, 2013)

- Cities started to hire Chief Data Officer, to develop policies and organize city data (Thorsby et. al., 2016)
Importance of Open Data

• Increase transparency & accountability
• Provides entrepreneurs and business owners with better information for decision-making
• It drives new innovation to city operation
• Skilled citizens can help solve cities problems.
• Better citizen engagement

(Kassen 2013, Tolbert and Mossberger's, 2006)
Sieber and Johnson 2015

- Data Over the wall
- Code exchange; were government act as open data activist to support entrepreneur to creation application using government data.
- Civic issue tracker; with the flow of data from government to citizens and vice versa.
- Participatory open government; were data is exchanged between government and citizen.
Why Open Data @ UNT?

• Provide students with real world problems with actual data
• Higher impact for assignment
  – Project resonate with students and suitable for job interviews
  – Relationship with prospect employer
• Increase engagement between city, university, and community
• More research opportunities within the city
Open Data @ UNT

• Python class
  – Inspection analysis
  – Traffic violations analysis
  – Using natural language processing and latent semantic analysis to study 2016 year council meetings

• Data Modeling class (Business and IS)
  – Design database based on available city data (Crime, Inspection)

• Data visualization class
  – Analyze Denton past 10 years crime data
Common Datasets

- Mobility \(^2\)
  - Public, Traffic, and Accessibility
- Points of interests (Tourism Info) \(^1\)
- Education
- Health
  - Information, Advices, and Nutrition & Fitness
- Public Safety
- Information Awareness
  - Events, Governments, Law, Environment, Public Statistics

- Manika (2015)
Economical Impact

- WWC grant/membership provided city with better prospective on decision making process within member cities
- City started a dashboard with related data upload it to the portal
- Journalist and bloggers started to use the portal and disseminate reports and studies
- At least 3 university classes build their final class projects using the portal datasets
- Citizen groups are building mobile apps using Open Data API
- Enabled mobile applications
Who use Open Data?
Free public facing crime mapping and alert website that works similar to a news agency, but deals solely with crime information. Estimated to be the largest aggregator of crime data in the US as well as the largest crime.

You can use Kayak to comparison shop for the best deals on flights, hotels, and rental cars by simultaneously comparing hundreds of travel sites.

With Zillow, you can see estimates of home and rental values at the neighborhood level so you can make more informed housing decisions.

App helps to search and discover restaurants, churches, schools, hospitals, hotels, convenience stores and supermarkets, and checks their health inspection score. Has data for 1732 Health Departments of the 2550 Health Departments/Agencies.

Ersi's geographic information lets you create maps and data visualizations for better geospatial analysis.

You can use Trulia to see hyperlocal insights and market trends on potential neighborhoods and housing options.
What are the Important Research Topics/questions related to Open Data?

- We conducted a literature review of papers published at Government Information Quarterly (2008-2017) and found out 56 papers on Open Government Data (OGD), among then 42 are closely relevant to OGD
- Information Organization related, like metadata issues?
- ?????
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<tr>
<th>Topic</th>
<th># of papers at GIQ</th>
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<tbody>
<tr>
<td>Open Data Platform/System design</td>
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<td>OGD dataset assessment</td>
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<td>OGD portal evaluation</td>
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<td>The use of OGD platform: models,</td>
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<td>The use of OGD: through visualization, for commercial use, factors affecting use, how to use</td>
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<td>Factors for OGD release and dissemination</td>
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<td>Data Sharing among organizations, or units</td>
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<td>Transparency and privacy issues for data release and sharing</td>
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<td>Assessment/evaluation of OGD related policy, challenges</td>
<td>9</td>
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<td>Relationships with other social concepts, different viewpoints</td>
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What is next?

- Increase the class use
- Ask for datasets and public records
- Soon City of Denton and City of Lewisville will announce internship to our students
Resources

Questions?
Thank you!