

Every City and Community is Part of an Emerging National Data Grid



Every Community in the USA has Valuable Open Data





The U.S. Census Bureau is the Leading Source of Open Data **About our Nation's People, Places and Economy**



Decennial Census



American Community Survey



Economic Census



Current Population Survey



American Housing Survey



Annual Retail Trade



Census of Governments



Survey of Income and **Program Participation**



Economic Indicators



Population Estimates



Population Projections

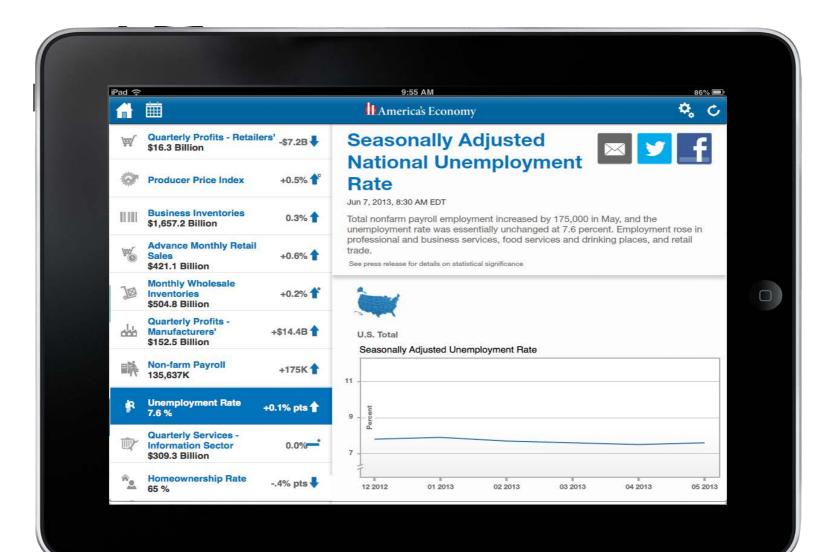


Import Statistics



Special Census Programs







Open Data

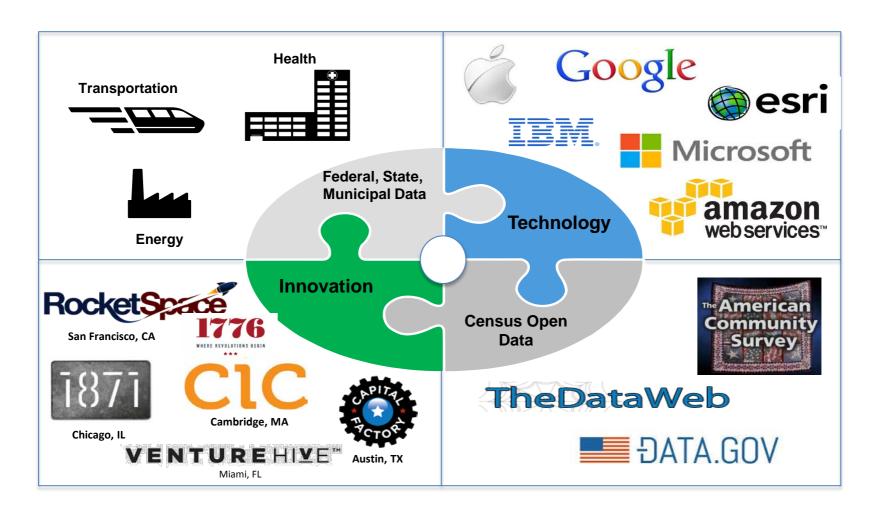
is a Valuable None-Depleteable National Resource

Census, together with other open data, can deliver business and demographic insights to fuel innovation, entrepreneurship and economic growth

Government and industry are working to unlock the value of this data in order to fuel innovation; but data interoperability ("mash-ups") issues remain

Solving Data Interoperability will significantly improve how we search, discover, consume, and analyze data

Cities and Local Communities are the Open Data Innovation Intersection



An Open Data Ecosystem is Emerging that is Fueling Innovation



The #hackhousing hackathon was sponsored by Zillow in partnership with the Department of Housing and Urban Development (HUD) as well as the Census Bureau.

400

Registered Attendees

44

Project Teams

From a variety of backgrounds including:

- Government
- Commercial/private-sector
- Academia
- Entrepreneurs



Digital Strategy:

A Framework for Understanding the Census Digital Lifecycle





OPPORTUNITIES TO PROMOTE PUBLIC INNOVATION





CENSUS

OPEN DATA

PLATFORM

OPPORTUNITIES FOR OPERATIONAL EFFICIENCIES AND COST CONTROLS



- Create once, use for any purpose
- Achieve cost savings through efficient processes
- Reuse services and follow uniform standards
- · Ensure security and integrity of dat





General public



Developers & Apps



Survey / Census Respondents



Sponsors



Researchers/Statisticians



Government agencies

provide feedback

Innovate apps

ENABLING INNOVATION AND PUBLIC SERVICE THROUGH PUBLIC USE STATISTICAL DATA

Participate to promote Census mission & value



CONSUMER-CENTRIC **EXTERNAL PORTAL**

Search & find capability

knowledge wiki

Collaboration Forum

Experts reachback Collaborative research

Q&A

Developer Community

API for data access

GitHub

0&A

IdeaScale & Other

Data Collection Channels

Mobile, web & telephone

Government Collaboration

Challenge.gov Data.gov

Apps showcase

Census publications

Interactive presentation of Census data



ENABLING SERVICES IN CLOUD

Content management system

Ent metadata taxonomy/ data dictionary



Enterprise Service Bus

Collaboration services

Data Collection Services

Metadata Translation and Data Extraction Service rnal API

Search service

Security verification services

Internal data

(Data Ferrett, AFF, IOE-Dev#1,2, etc)

Publish metadata & data source information

Process feedback & respond to queries

Prepare Census publications & support presentation systems

> Monitor use & adapt to tech demand

> Process collected data and share internally

Store collected data and make

it available through APIs





PROCESSES Business process experts

Statisticians/researchers

Technology experts

Data owners

Security & privacy experts



CENSUS DATA SOURCES

Economic Census & surveys

Decennial Census

Demographic surveys

American community survey

Geographic information

(1) CENSUS DATA CONSUMERS & PROVIDERS

innovate with Census data and respond to surveys/census with more ease

CONSUMER-CENTRIC EXTERNAL PORTAL

provides a gateway to easily access data / services and allows collaboration with experts

 ENABLING SERVICES IN CLOUD support efficient and secure information exchange through cloud based shared services

4 THE CENSUS BUREAU STAFF & PROCESSES promote innovation and achieve cost efficiencies through effective operations **5** DATA SOURCES provide quality data on demand

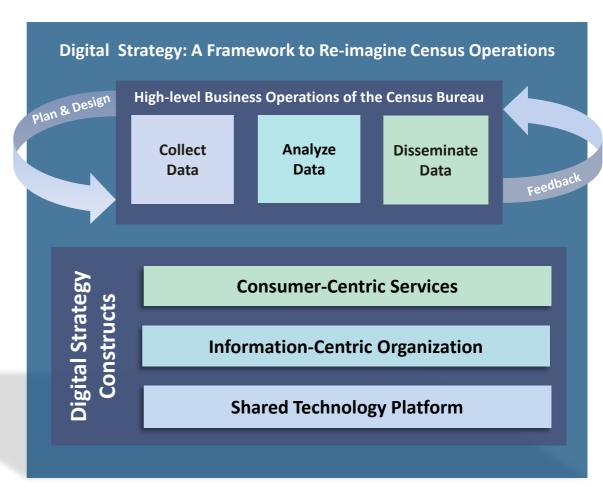
The Digital Government Strategy A Set of Digital Design Guiding Principles



- Enable the American people and an increasingly mobile workforce to access high-quality information and services anywhere, anytime, on any device
- Ensure that as the government adjusts to this new digital world, we seize the opportunity to procure and manage devices, applications, and data in smart, secure and affordable ways
- Unlock the power of government data to spur innovation across our Nation to improve the quality of services for the American people
- Improve procurement, security, asset management, and shared services

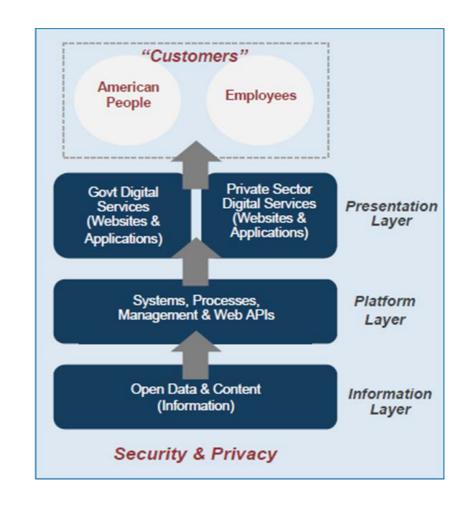
Digital Strategy: Guiding Principles for Business Transformation Applied to the Bureau

- The Digital Strategy provides a framework to effectively reimagine Census business
- Providing access to government data in consumerfriendly ways to suit changing customer demands driven by technological innovation
- Through the Digital
 Transformation Strategy, the
 Census Bureau is addressing
 consumer-centric
 dissemination of data

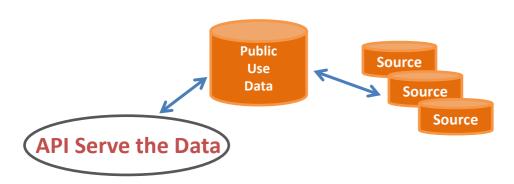


A conceptual Model to Implement Digital Services

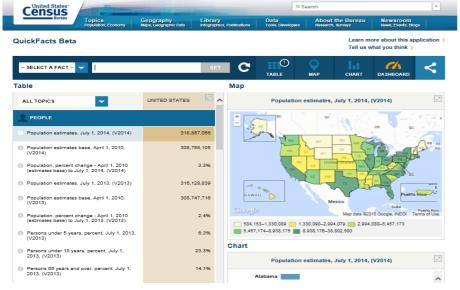
- Customer-Centric (Presentation Layer) Present data in ways that allow customers to shape, share and consume information, whenever, and however they want
- Shared Platform (Platform Layer) Work together, both within and across agencies, to reduce costs, streamline development, apply consistent standards, and ensure consistency in how we create and deliver information
- Information-Centric (Information Layer) Make Open Data, Content, and Web APIs the new default and fuel the App economy
- Security and Privacy (Applicable to All Layers) Ensure
 the safe and secure delivery and use of digital services to
 protect information and privacy while promoting
 innovation



API's Provide New Methods for Data Access and Dissemination

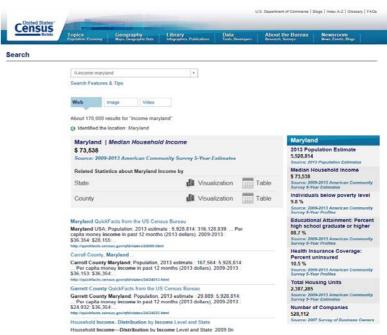


Web Applications API enabled





Smart Search





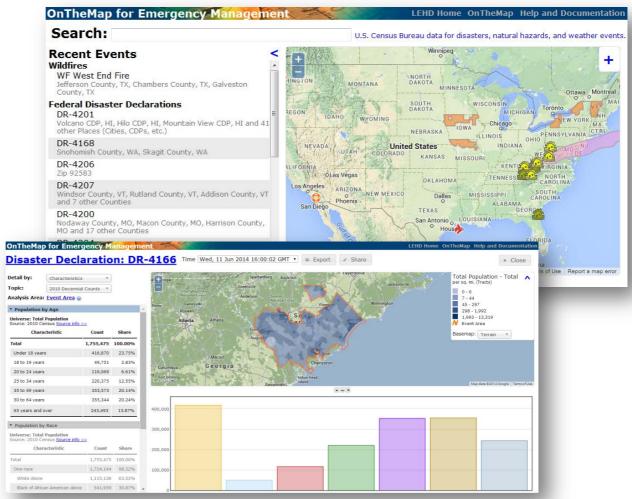
Mobile Applications



Emergency Response

Example: OnTheMap

OnTheMap for Emergency
Management is a public data tool
that provides an intuitive webbased interface for viewing the
potential effects of disasters on the
U.S. workforce and population.
Users can easily retrieve reports
containing detailed workforce,
population, and housing
characteristics for hurricanes,
floods, wildfires, winter storms,
and federal disaster declaration
areas.



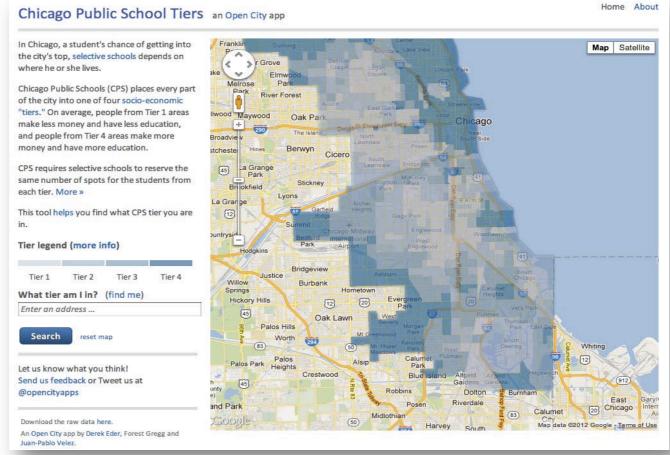




Education

Example: Code for America - Chicago

Chicago parents have a new tool for understanding the public school selection process.
Chicago Public Schools (CPS) places every part of the city into one of four socio-economic "tiers".



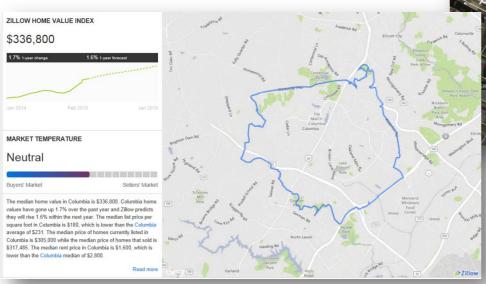


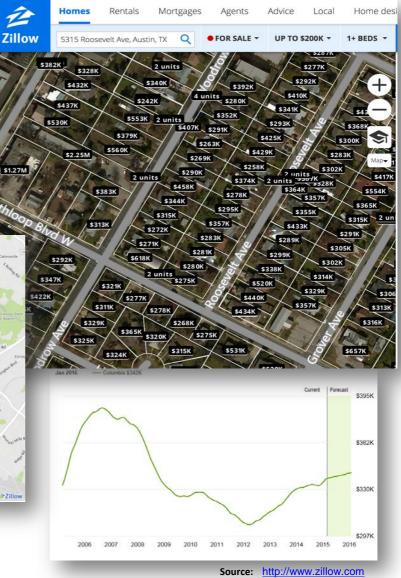
Source: http://www.codeforamerica.org/blog/2012/03/15/educating-chicago/

Housing

Example: Zillow

The Zillow methodology required the use of open data from multiple sources. For example, data from the US Census Bureau, such as the American Community Survey, is key to providing community information to our users.



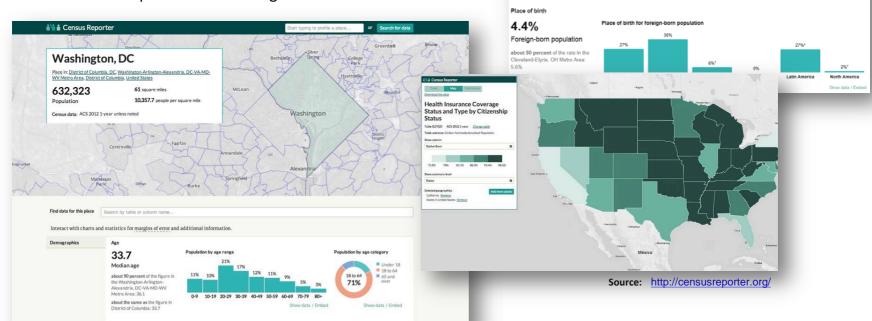


\$1.27M

Data Exploration

Example: Census Reporter

Place profiles and comparison pages provide a friendly interface for navigating data, including visualizations for a more useful first look. Populations and dollar figures are broken down by category: Demographics, Economics, Families, Housing and Social. Precomputed statistics are presented alongside each data point, so you can see how each place fits into a larger context.



78.2%

Language

12.3%

* ACS 2013 3-year data

High school grad or higher

about 90 percent of the rate in the

about 90 percent of the rate in Ohio: Ohio: 26.1%

Persons with language other than English spoken at home

about 25 percent higher than the rate in the

Cleveland-Elyria, OH Metro Area: 9.9% nearly double the rate in Ohio: 6.7%

16.5%

Bachelor's degree or higher

about three-fifths of the rate in

Language at home, children 5-17

Population by minimum level of education

* Universe: Population 25 years and over

Indo-Europe

Indo-European

Show data / Embed



