The need for integrating up-to-date statistical data with small area geography

For managing national and global problems

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The Problem Statement

- The U.S. is in a good place with small area geography and with statistical data
- …but we need to do more…
“Absence of Statistical Data at Small-Enough Levels of Geography”

- Frequent data collection on special topics is needed to address current circumstances.
  - COVID
  - Health
  - Employment
  - Schooling
  - Etc.

- Release of statistical data currently is increasingly challenged by privacy concerns.
The Geocoded Address – the “Bridge” to Linking Statistical with Geospatial Information

- The **address** is the most **elemental** geospatial object
  - Housing unit
  - Apartment within an apartment building
  - Room within an apartment for a separate household
  - Business establishment
  - Etc.

- The **household** is the most **elemental** statistical unit
Learning Lessons…

- The COVID pandemic has given us a greater appreciation for the power of data dashboards.
- On to the dashboards…
Johns Hopkins COVID Dashboard
Dashboards – What is offered and What is missing?

- **Offered**
  - Dashboards offer critically important information on different topics
    - Number of COVID cases
    - Where (generally) the number of cases occurred at a point in time
- **Missing**
  - Impact on the population
  - Impact on business
What’s Next?

Household Pulse Survey Data Tables

The new experimental Household Pulse Survey is designed to quickly and efficiently deploy data collected on how people’s lives have been impacted by the coronavirus pandemic.

Data collection for Phase 1 of the Household Pulse Survey began on April 23, 2020, ended on July 21, 2020, and included 12 weekly table releases.

Phase 2 of the survey begins on August 19, 2020, and the Census Bureau expects to collect data through October, 2020, releasing data every two weeks. The links below will take you to the downloadable tables in XLS for each period of release.

Note: Phase 1 of the Household Pulse Survey was collected and disseminated on a weekly basis. Phase 2 has a two-week collection and dissemination period. Despite going to a two-week collection period, the Household Pulse Survey continues to call these collection periods “weeks” for continuity with Phase 1.
A Different Dashboard…

Expected Loss in Employment Income
Percentage of adults who expect someone in their household to have a loss in employment income in the next 4 weeks.

Filter By:
- States: —
- Metro Areas: —
Household Pulse Survey

Expected Loss in Employment Income

- Telework
- Food Scarcity
- Housing Insecurity
- Likelihood of Eviction or Foreclosure
- Difficulty Paying for Usual Household Expenses
- Change in Post-Secondary Education
### US Demographic and Economic Data At A Glance

<table>
<thead>
<tr>
<th>Population Aged 65 Years and Older</th>
<th>Total Uninsured Population</th>
<th>Total Employer Establishments</th>
<th>Total Non-Employer Establishments</th>
</tr>
</thead>
<tbody>
<tr>
<td>49,238,581</td>
<td>29,752,767</td>
<td>7,860,674</td>
<td>25,701,671</td>
</tr>
</tbody>
</table>

*American Community Survey (ACS) 2014-2018* | *American Community Survey (ACS) 2014-2018* | *County Business Patterns (CBP) 2017* | *Nonemployer Statistics (NES) 2017*
Household and Business Updates

Household Pulse Survey Updates

Based on responses collected September 16 through September 28, the Household Pulse Survey estimates that:

Small Business Pulse Survey Updates

Based on responses collected September 27 through October 3, the Small Business Pulse Survey estimates that:
Pulse Data Examples…Impact on People and Households

- **24.0%** of American adults expect someone in their household to experience a **loss** in employment income in the next 4 weeks.

- **10.1%** of American adults lived in households where there was either sometimes or often **not enough to eat** in the previous 7 days.

- **36.6%** of adults live in households where at least one adult **substituted** some or all in-person work for telework because of the coronavirus pandemic.

- Of adults living in households not current on rent or mortgage, **32.1%** report **eviction or foreclosure in the next two months** is either somewhat or very **likely**.

- **31.9%** of adults live in households where it has been somewhat or very **difficult to pay usual household expenses** during the coronavirus pandemic.
Pulse Data Examples...Impact on Businesses

- **23.8%** of U.S. small businesses have increased their use of online platforms to offer goods or services since March 13, 2020.
- **62.1%** of U.S. small businesses have experienced no change in operating revenues in the last week.
- **74.0%** of U.S. small businesses have requested financial assistance from the Paycheck Protection Program since March 13, 2020.
- **44.1%** of U.S. small businesses believe more than 6 months of time will pass before their business returns to its normal level of operations.
- **21.9%** of U.S. manufacturing businesses have experienced production delays in the last week.
A Path Forward…

- Location (geospatial) is a critical part in bringing statistics to life about people and the economy.

- Where does a mayor and health official go to see:
  - Vulnerable populations
  - Instances of COVID cases by neighborhood
  - Inoculation priority

- Where does a mayor and city planner go to see:
  - Open businesses
  - Closed businesses
  - …
Is the Geospatial Platform the Single “Go-To” Source?

- Is this “integrated” information (or links to it) on the Platform?
  - No…
- Should it be?
  - Yes
- Examples like these may help in planning for what is needed for a reconstituted Geospatial Platform.
A Sample of Big-Needs Projects Require Geospatial

- Where is the shovel-ready infrastructure work
  - What kind of workers?
  - How many?
  - Where are they living now?
  - What supply chains are needed?
- Redesign of schools and public buildings for social distancing & hybrid learning…
  - …
- Climate Change…
  - …
- Economic Opportunities
  - …
  - …
  - …
- Is this the future Geospatial Platform…?
Thank You!