



Cloud Based “Real-Time” Census Data:

Photo Credit: Jessica Wolkoff

Giving Transportation the API Advantage



UNIVERSITY AT ALBANY

Visualization And Informatics Lab

Databases are Tools to Be Used

- It's your job to create a snapshot of American commuting patterns following the 2020 Census.
- But now advances in Cloud computing and mobile device technology have opened the door for new tools to aid you.



UNIVERSITY AT ALBANY

Visualization And Informatics Lab

The Beginning of a “See”- Change

- Right now we have our Tool Belt.
 - Inside this tool belt is access to descriptive statistics.
 - Census Data can be visualized anywhere – thanks to the newly available API.



UNIVERSITY AT ALBANY

Visualization And Informatics Lab

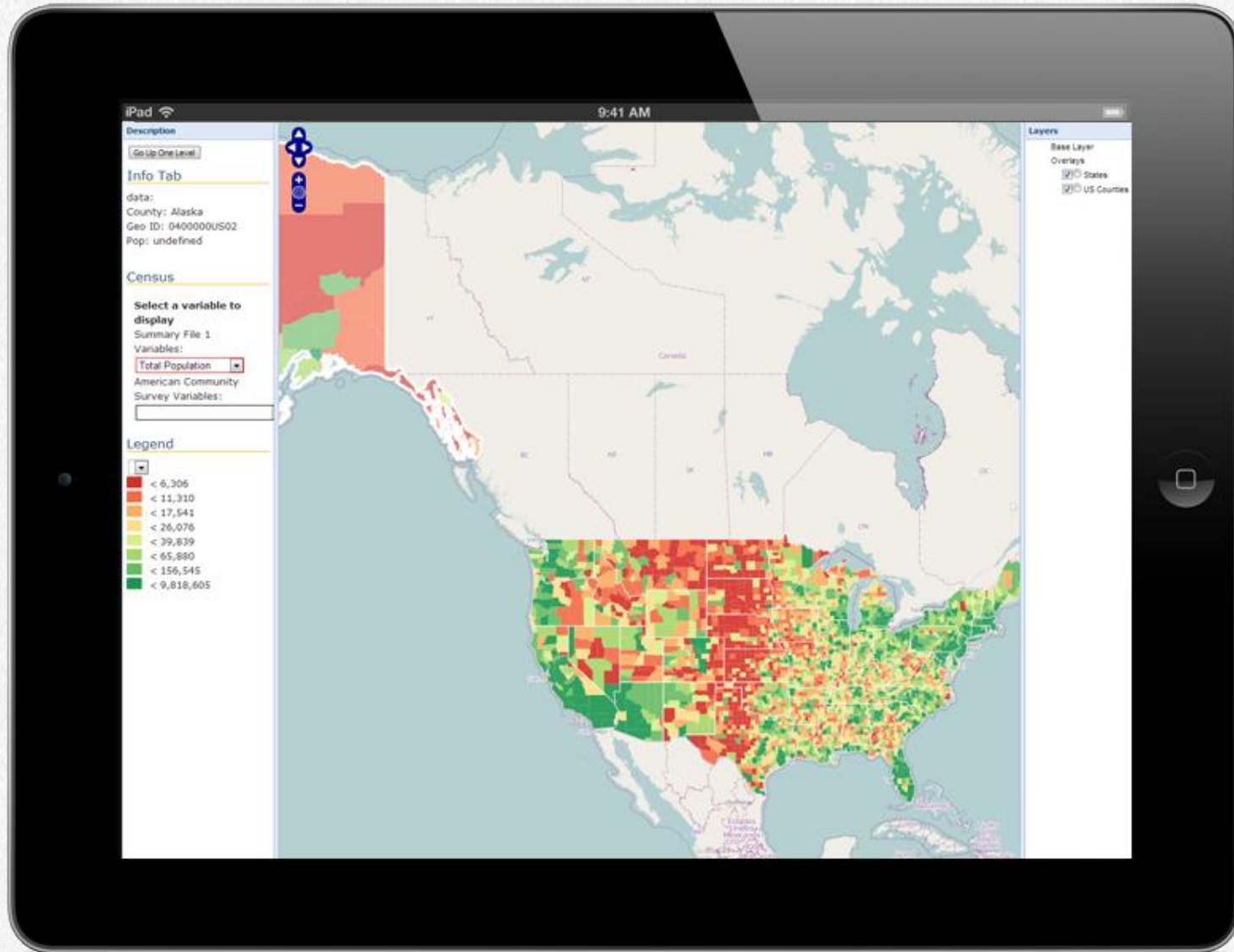
What's Next?

- SUNY Albany Visualization and Informatics Lab (AVAIL) is currently developing the next set of tools for use in modeling NJ Transit Ridership.
 - This Tool Shelf will be able to perform comparative statistics;
 - Data changes from place to place.
 - Data changes over time.
 - This will help to identify trends in data quickly, easily, and cheaply.



UNIVERSITY AT ALBANY

Visualization And Informatics Lab



AVAIL Census Viewer simulated on an Apple iPad



UNIVERSITY AT ALBANY

Visualization And Informatics Lab

FIGURE 1-7 Trip Chain Conceptual Layout

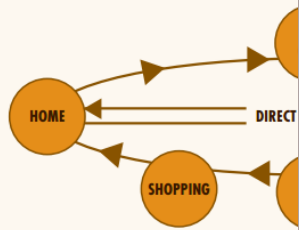
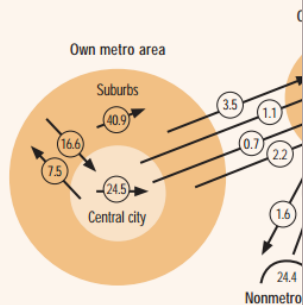


FIGURE 3-3 Metropolitan Flow Map (Millions of Commuters)

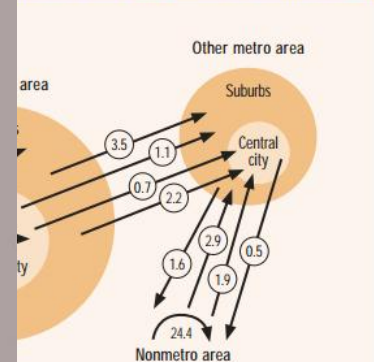


Imagine Being Alan Pisarski



In Commuting In America V

Metropolitan Flow Map (Millions of Commuters)



Graphs From:
Commuting In America III

The Whole Tool Shed Is on the Horizon

- A community developing tools that work together using many cloud database sources
- Guarantee that all users and all applications are using identical, up-to-date data.



UNIVERSITY AT ALBANY

Visualization And Informatics Lab

Conclusions

- Combining the power and lightness of a query-ready Census API with available mobile devices;
 - Allows for more complete and complex analysis out of the office.
 - Opening up data accessibility opens the door for creative uses for data in ways we can't yet imagine.



UNIVERSITY AT ALBANY

Visualization And Informatics Lab

[illegible]

Visualization And Informatics Lab