# NTIA Digital Nation Data Analysis and Visualization

UW iSchool Capstone Project

Janani Kumar Nan Xiao Shiyi Luo MSIM 2018

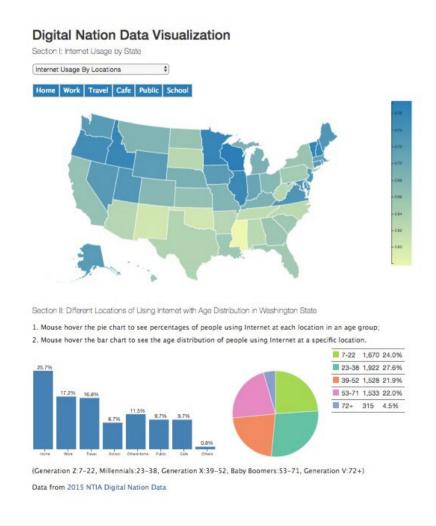
## PROJECT DESCRIPTION

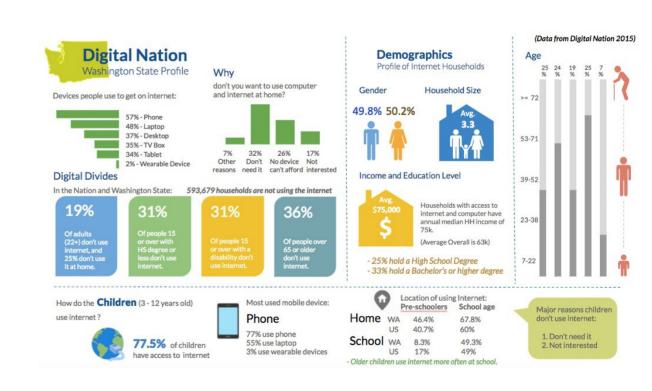


NTIA's Digital Nation Dataset is rich collection of data obtained by surveying people across America on their computer and internet usage. The team was tasked to understand and derive insights from the dataset that will help policy makers make decisions best tailored to the needs of the users. Before we set out explore the data, we looked at the mission statements of NTIA and BroadBand USA to ask questions that will help them achieve their goals.

## PROJECT DELIVERABLES

- State Broadband Profiles: Create profiles for computer and internet use in each state, and present the information using compelling visuals and infographics that can inform policy at the state level.
- Find a New Story: Uncover interesting patterns about Computer and Internet use in America in the tremendous dataset.
- Make it Repeatable: Develop necessary tools, code, and documentation so that people can continue the work after project is complete.



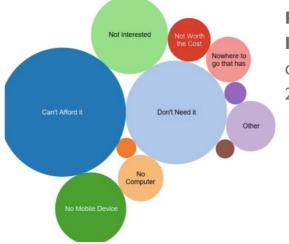


## **Deliverable Links:**

- https://nannxiao.github.io/ntia
- https://public.tableau.com/profile/janani.kumar#!/vizhome/DataStories

## NEXT STEPS AND RECOMMENDATION

- Incorporate feedback from policy makers
- Enrich explorations
- Thinking about what is not there in the data
- Iterate on the visualization principles followed
  - Summary first, details on demand.
  - Less in memory, more on screen.
  - Feature Integration is important.



Reasons for not using Internet at home data from Digital Nation 2015

#### TALK TO US

jkumar@uw.edu nanxiao@uw.edu luos9@uw.edu



