Subject:	Data Sci Clinic - Follow Up
Date:	Tuesday, January 18, 2022 at 5:50:41 PM Central Standard Time
From:	Devon Braunstein
To:	Tarun Mangla
Attachments:	image001.png, Chicago Connected_K12 Bridge to Broadband.pdf, ACSST5Y2018.S2802_data_with_overlays_2020-12-07T195615_DB.xlsx

Tarun – following with some links and my analysis. I am curious if your team agrees with my approach, or has other suggestions for gaining an accurate picture of the portion of each community area population who has broadband at home. Then, they can produce that analysis using 2019 5-year ACS data.

- **Census tracts to Chicago Community Areas crosswalk**: Can export as a csv from Chicago Data Portal: Boundaries - Census Tracts - 2010
- The Illinois Broadband Map, mapping things like Form 477 data (it would be great to reproduce elements of this for Chicago, but also with raw data available since tables can be easier to parse through)
- **COVID data points** (case rates, mortality rates, vulnerability index, and more): Chicago Data Portal - COVID (mapping broadband connectivity rates to community areas with high COVID rates would be helpful for determining where to direct federal relief funds)
- **Education Superhighway's Bridge to Broadband initiative** – if we provide addresses, they have agreements with ISPs and can produce coverage and adoptions maps and raw data (see the slides attached for more info)
- **Analysis of 2018 ACS data – here is my process** (using Excel; full sheet is attached):
  - Downloaded data for Illinois from this link
  - Mapped Census tracts to Community Areas (using V Look Up and this crosswalk)
  - Removed non-Chicago tracts (see tab called CHICAGO ONLY - AC2018 5 YR EST)
  - In a separate tab (Summary tab), summed population per Community Area
    - Then, created a column summing number of people with broadband internet subscription
    - Divide the number with a subscription by the population, to get percentage of population with broadband subscription (Column E in Summary tab)
    - Mapped in other demographic data to get the following least connected community areas and associated stats:

Community Area	% with Broadband Internet Subscription	% Non-Hispanic Black or African American	% Hispanic or Latino	Median Household Income	Household Poverty Rate
Englewood	55%	94.9%	2.9%	$22,507	44%
West					

West Englewood	58%	91.7%	6.1%	$27,911	33.2%
North Lawndale	60%	87.8%	8.2%	$26,076	40.4%
Auburn Gresham	61%	96.1%	1.3%	$29,285	28.2%
Austin	64%	81.6%	12.6%	$32,492	28.8%
East Garfield Park	64%	89.7%	3.5%	$25,887	39.7%
Greater Grand Crossing	64%	96.4%	1.2%	$28,154	34.7%
Riverdale	64%	93.8%	3.6%	$14,415	59.6%

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