**Thesis Progress Update 2/17!**

**Arielle Rivera**

* Demand profiles
  + Agricultural
    - Look at distribution of agricultural sales by location (2017 Census of Agriculture: <https://www.nass.usda.gov/Publications/Highlights/2020/census_puertorico.pdf>)
      * Equal distribution in north/south
        + North (Arecibo/Naranjito): $(139.1+45.3) million/$485 million = 38%
        + South (Ponce/Utuado): $(120+14.6) million/$485 million = 27.8% -> round up to 28%
      * More in east than west
        + East (Caguas): $53.3 million/$485 million = 11%
        + West (Mayaguez + San German + Lares): $(39.4+39.1+34.2) million/$485 million = 23.2% -> round down to 23%Graphical user interface, application

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  + Look at distribution of industrial sales by location
    - Rough rough estimate: 60% in south, 20% in north, 10% east, 10% west
* Residential and commercial
  + Look at distribution of population in Puerto Rico (<https://www.worldometers.info/world-population/puerto-rico-population/>) – very approximated
    - North (San Juan, Bayamon, Guaynabo, Trujillo Alto, Arecibo, Toa Baja, Vega Baja, Catano, Barceloneta, Manati): 60.5% -> 61%
    - South (Ponce, Guayama, Yauco): (152,634+21,575+20,295)/(1569135)=12.4% -> 12%
    - East (Carolina, Caguas, Fajardo, Cayey): 19.8% -> 20%
    - West (Mayaguez, Humacao, Aguadilla): 7.3% -> 7%Graphical user interface

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| --- | --- | --- | --- |
|  | Commercial/Residential/Public Lighting/Other | Industrial | Agricultural |
| North | 61% | 60% | 38% |
| South | 12% | 20% | 28% |
| East | 20% | 10% | 11% |
| West | 7% | 10% | 23% |