# Final Project Presentation

Analysis of OASDI and SSI Data (Spending and Beneficiaries)

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#### Introduction

OASDI stands for Old-Age, Survivors, Disability Insurance. It is part of Social Security Disability program. It is provided as support to people who are retired and families (dependent spouses and children) of workers who have died. Additional details on its history can be found here on Wikipedia - <a href="https://en.wikipedia.org/wiki/Social Security">https://en.wikipedia.org/wiki/Social Security (United States)</a>

SSI stands for **Supplemental Security Income**. It is part of Social Security and involves monthly payment as support to people with limited income and people who are *disabled*, *blind* or *aged 65 years and above*. Additional details about SSI can be found here - https://www.ssa.gov/ssi/text-over-ussi.htm

Both programs are administered by **Social Security Administration** (SSA) - <a href="https://www.ssa.gov/">https://www.ssa.gov/</a>

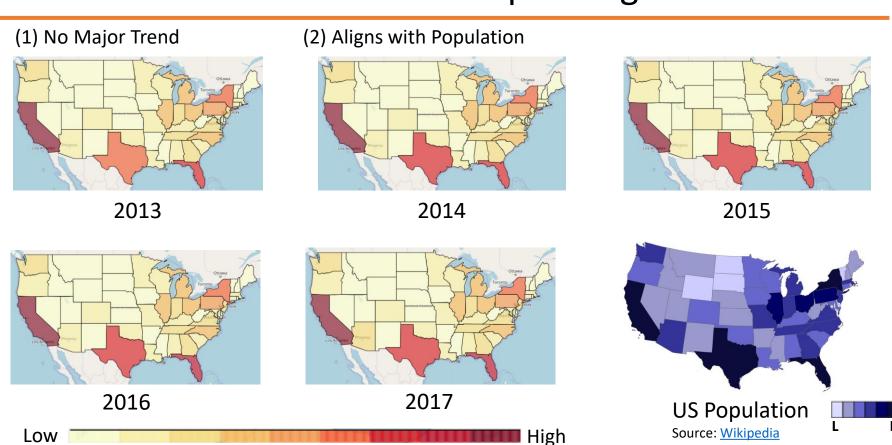
#### Data

- Each year congressional reports are published with information of SSI and OASDI payments made by each state. This report includes information about no. of recipients in each category and the total payments made for each state. Reports for years 2013, 2014, 2015, 2016 and 2017 has been used for analysis
  - OASDI Categories Retired Workers and Families
  - SSI Categories Aged, Blind and Disabled
- Population data for US for the years 2013, 2014, 2015, 2016 and 2017.

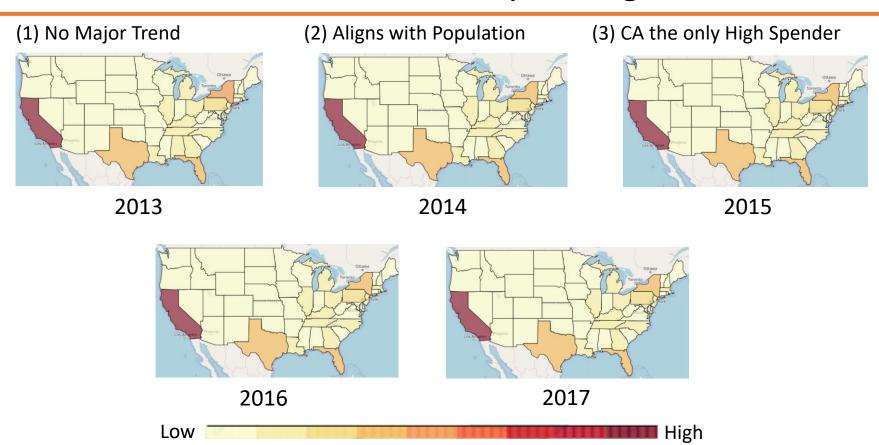
#### Motivation

- Understand the distribution of people benefiting from OASDI and SSI across US.
- Identify any trends in spending (if present).

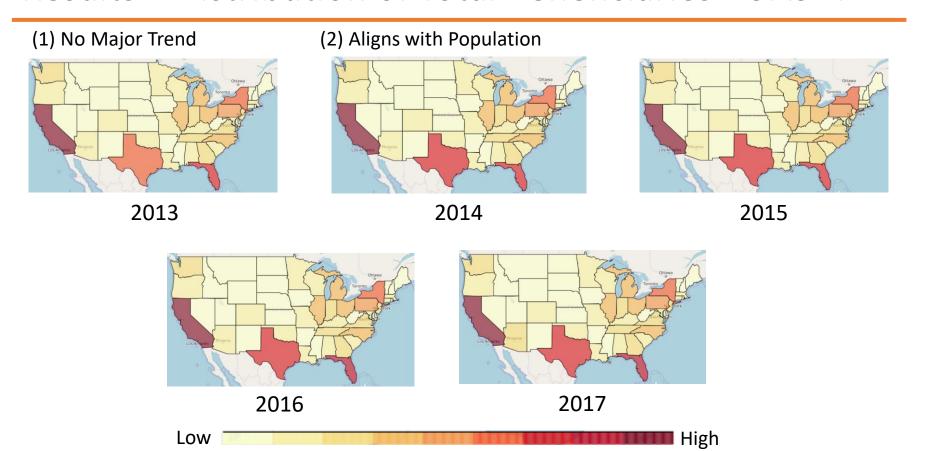
### Results – Distribution of Total Spending - OASDI



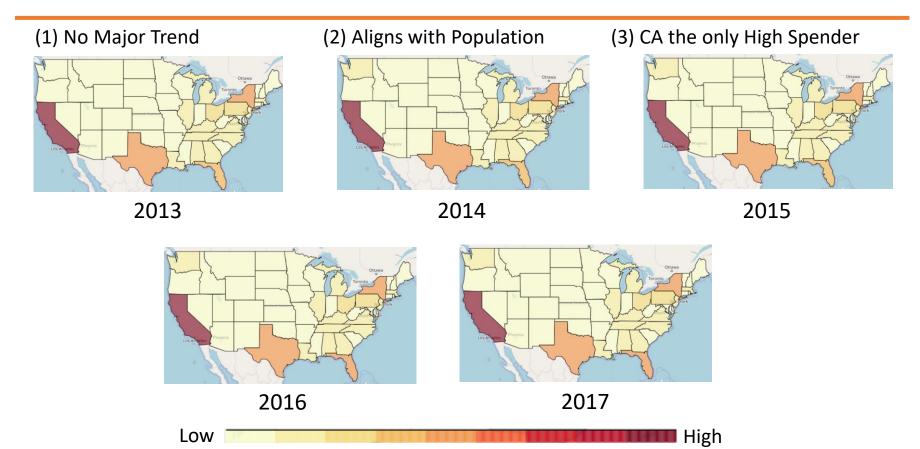
### Results – Distribution of Total Spending - SSI



### Results – Distribution of Total Beneficiaries - OASDI



#### Results – Distribution of Total Beneficiaries - SSI

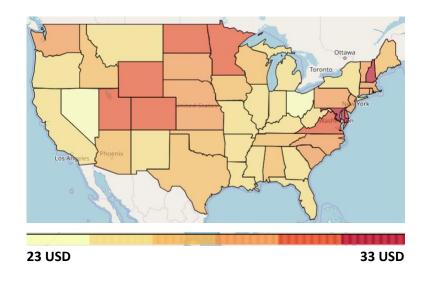


### Results – Avg Increase in Spending per Person - OASDI

(1) Top Spenders don't feature in Top 10

(2) Doesn't align with population

Top 10		Bottom 10		
state	avg_inc	 state	avg_inc	
DC	33.0	NV	23.0	
NH	32.0	ОН	24.0	
MD	32.0	MS	25.0	
DE	31.0	WV	25.0	
MN	31.0	LA	25.0	
WY	30.0	KY	25.0	
UT	30.0	NY	25.0	
VA	30.0	GA	25.0	
ND	30.0	CA	25.0	
CO	30.0	AR	25.0	

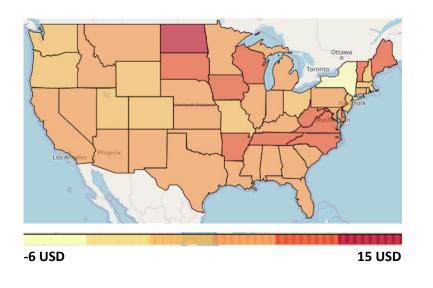


Figures are in USD

### Results – Avg Increase in Spending per Person - SSI

(1) Almost even across states (2) Doesn't align with population (3) NY the only state with decrease

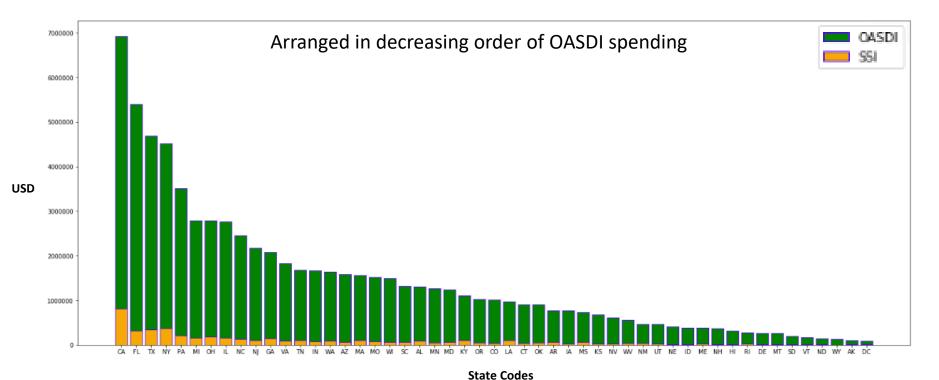
Top 10		Bottom 10	
state	avg_inc	state	avg_inc
ND	15.0	NY	-6.0
NC	9.0	HI	0.0
WV	9.0	RI	2.0
DE	8.0	ОН	3.0
IA	8.0	UT	3.0
SD	8.0	OR	3.0
ME	8.0	WY	4.0
TN	8.0	NH	4.0
DC	8.0	WA	4.0
VΔ	8.0	CO	4.0



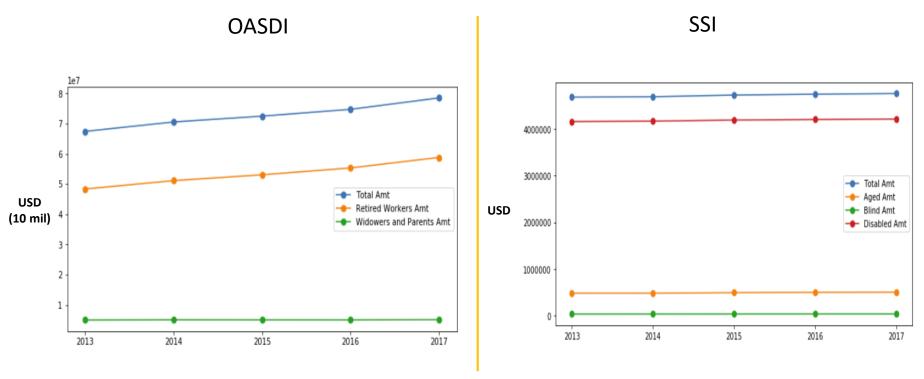
Figures are in USD

### Results – OASDI vs. SSI spending

(1) SSI is a small fraction of OASDI spending



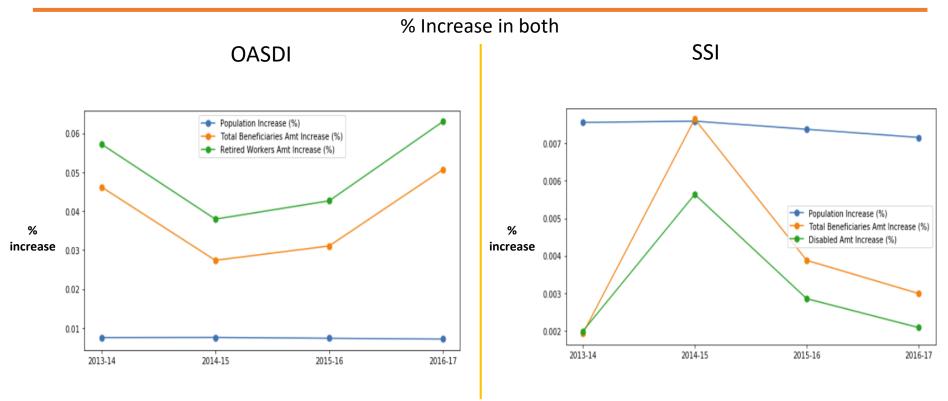
### Results – Category-Wise spending trend across years



(1) Retired Workers get the lion's share

(1) Disabled category gets the lion's share

## Results – Spending increase vs. Population increase



(1) OASDI increasing (2) More Retired Workers?

(1) SSI decreasing (2) Fewer Disabled People?

#### Conclusion

- SSI spending is small fraction of OASDI spending.
- At high level, the spending and beneficiaries per state appear to correlate positively with state's population.
- The analysis raises more questions which needs further analysis based on additional data.