2019 County Health Rankings Analysis

Shuyu Wu & Marc Inizan
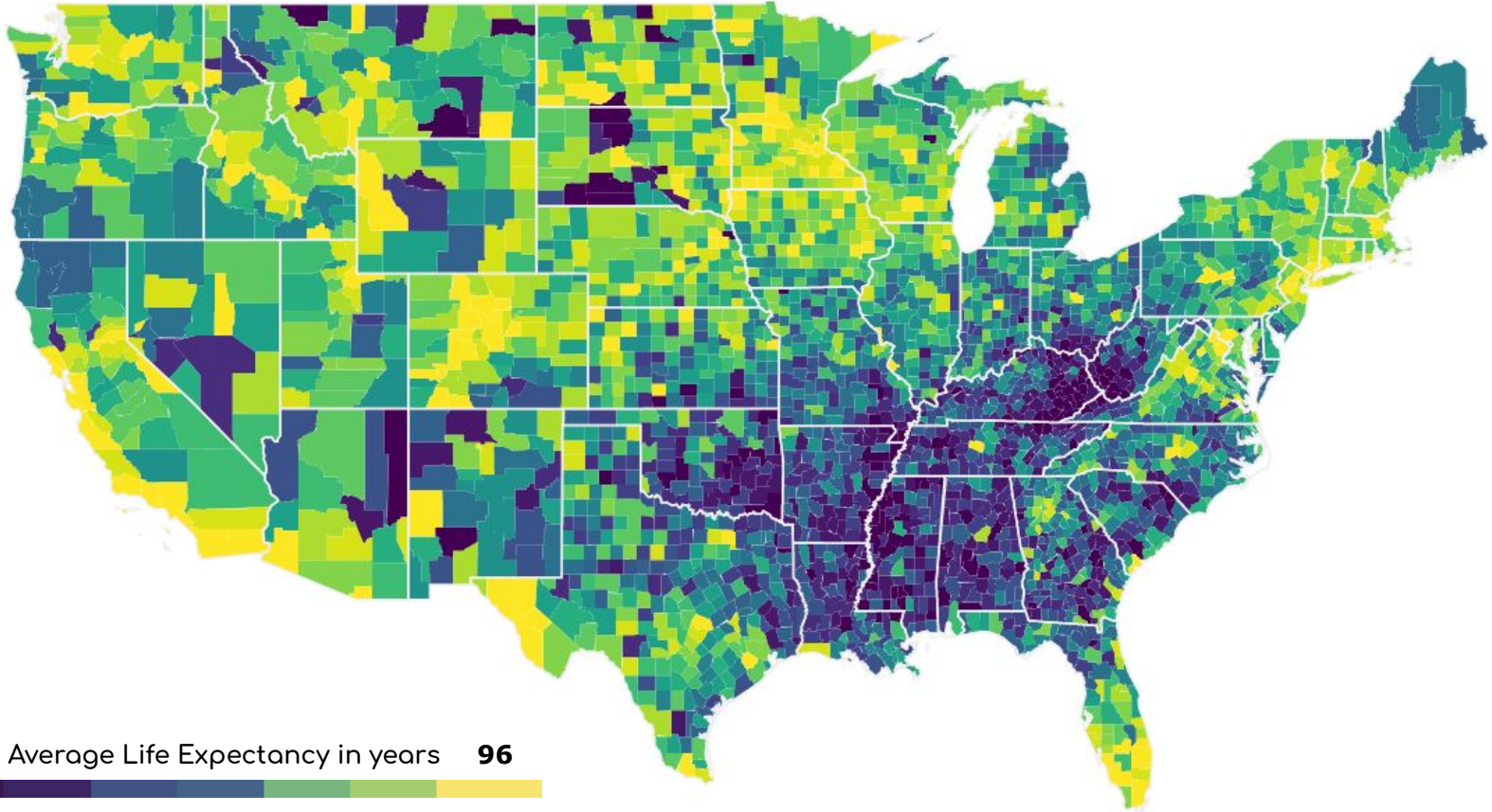
Perspective and problems

Life Expectancy
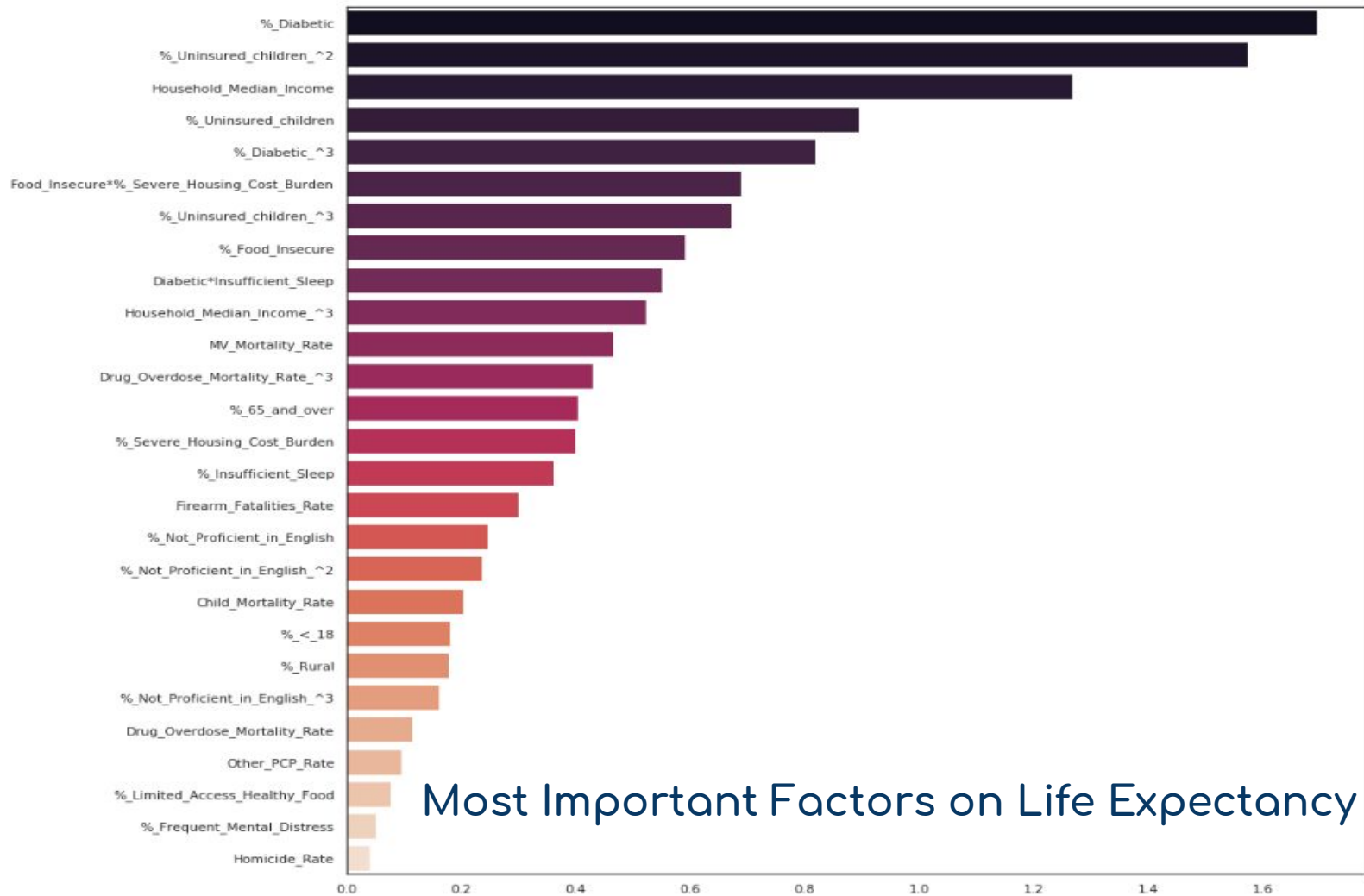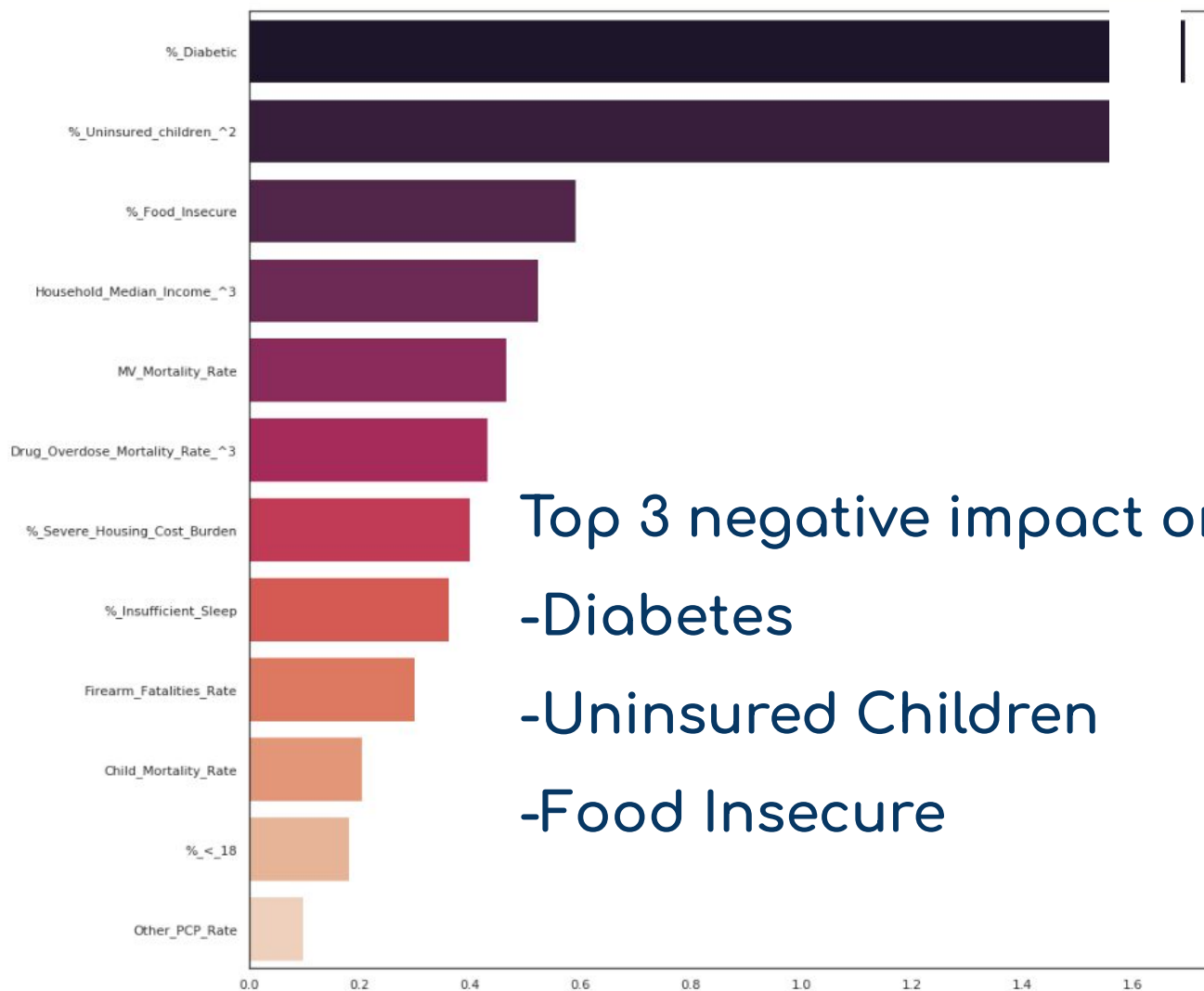
Sleep

Perspective: A third party consultancy company

Life Expectancy Heatmap
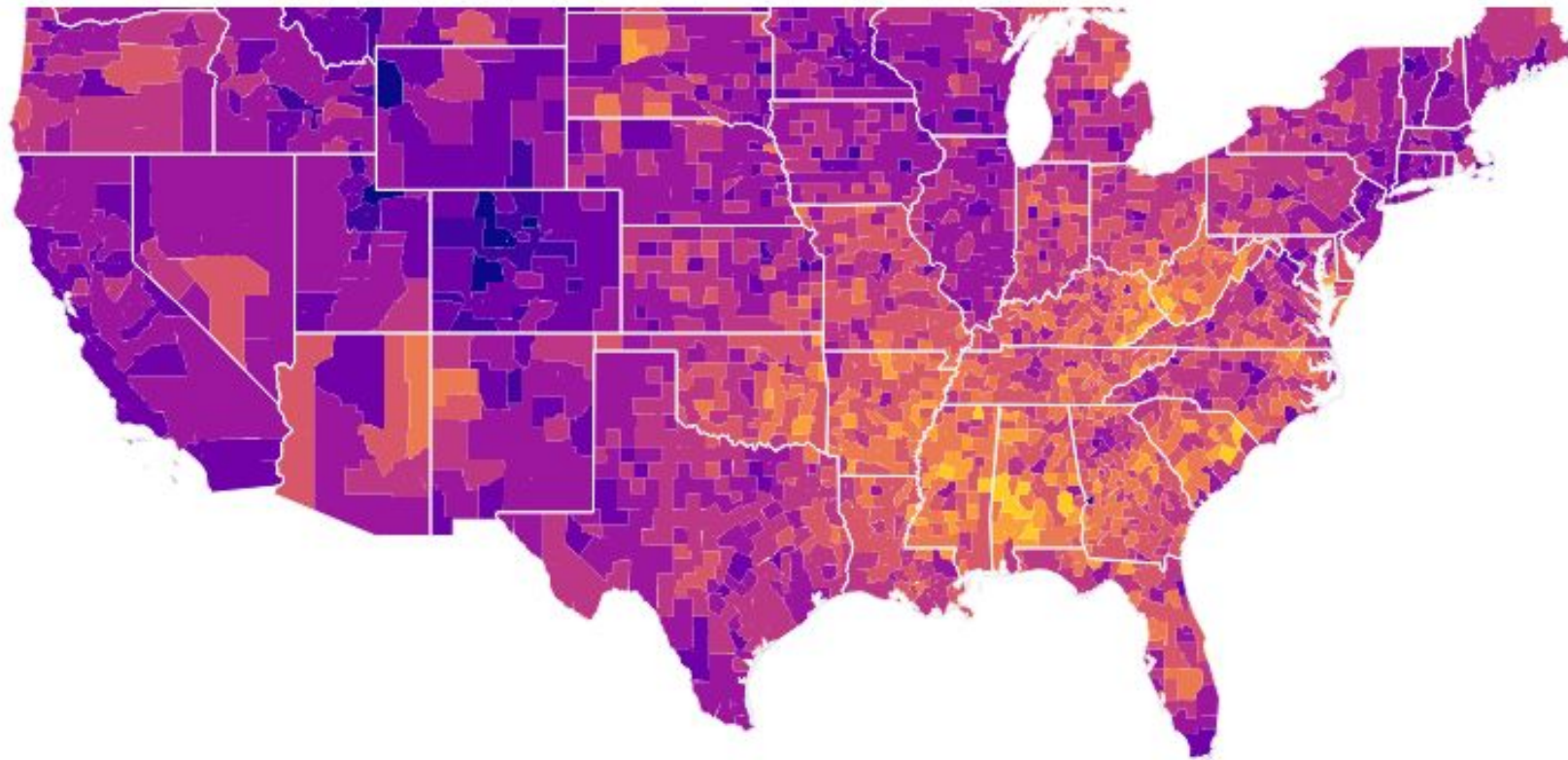

62   Average Life Expectancy in years   96
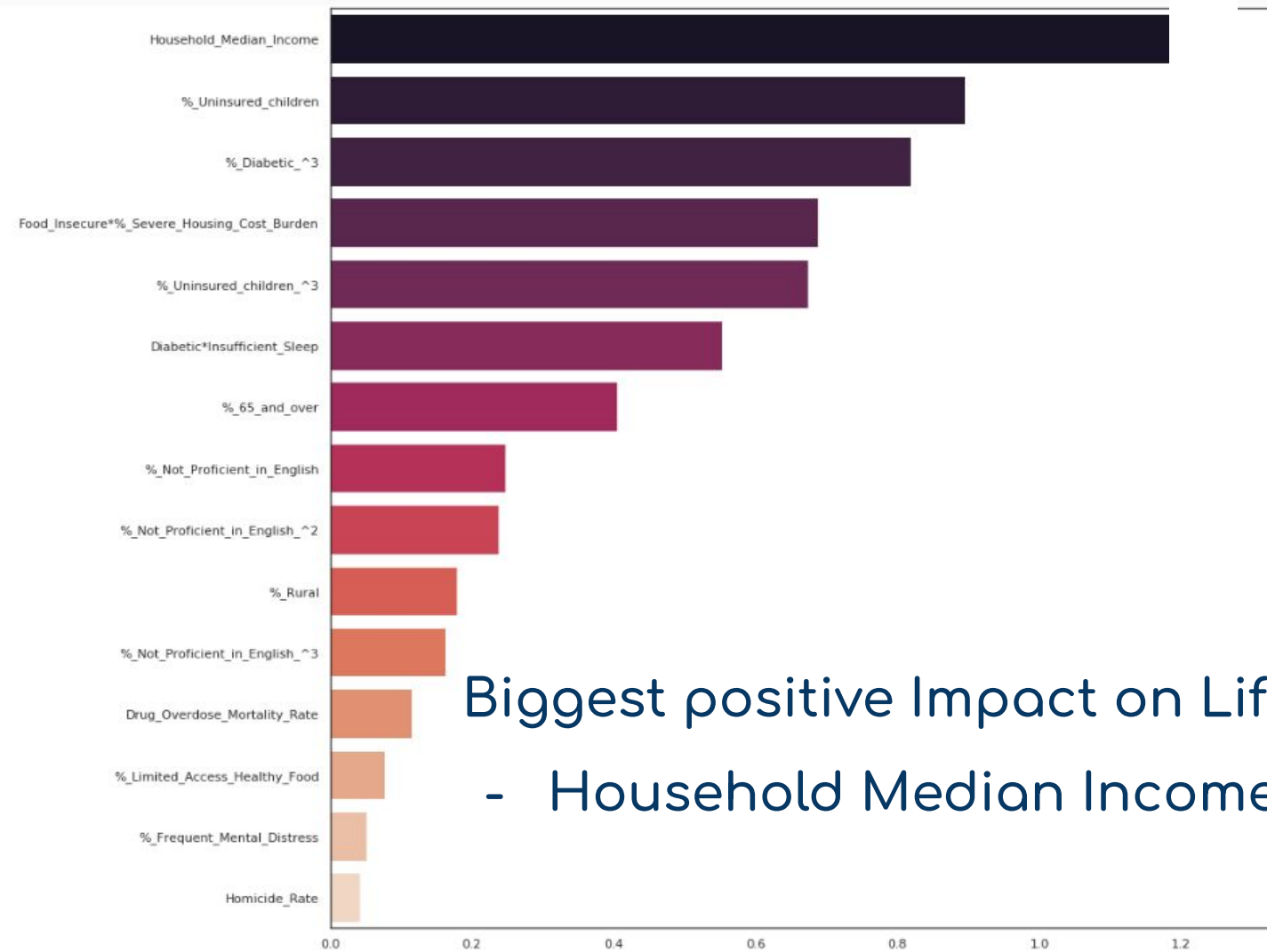
Most Important Factors on Life Expectancy

Top 3 negative impact on Life Expectancy:

-Diabetes

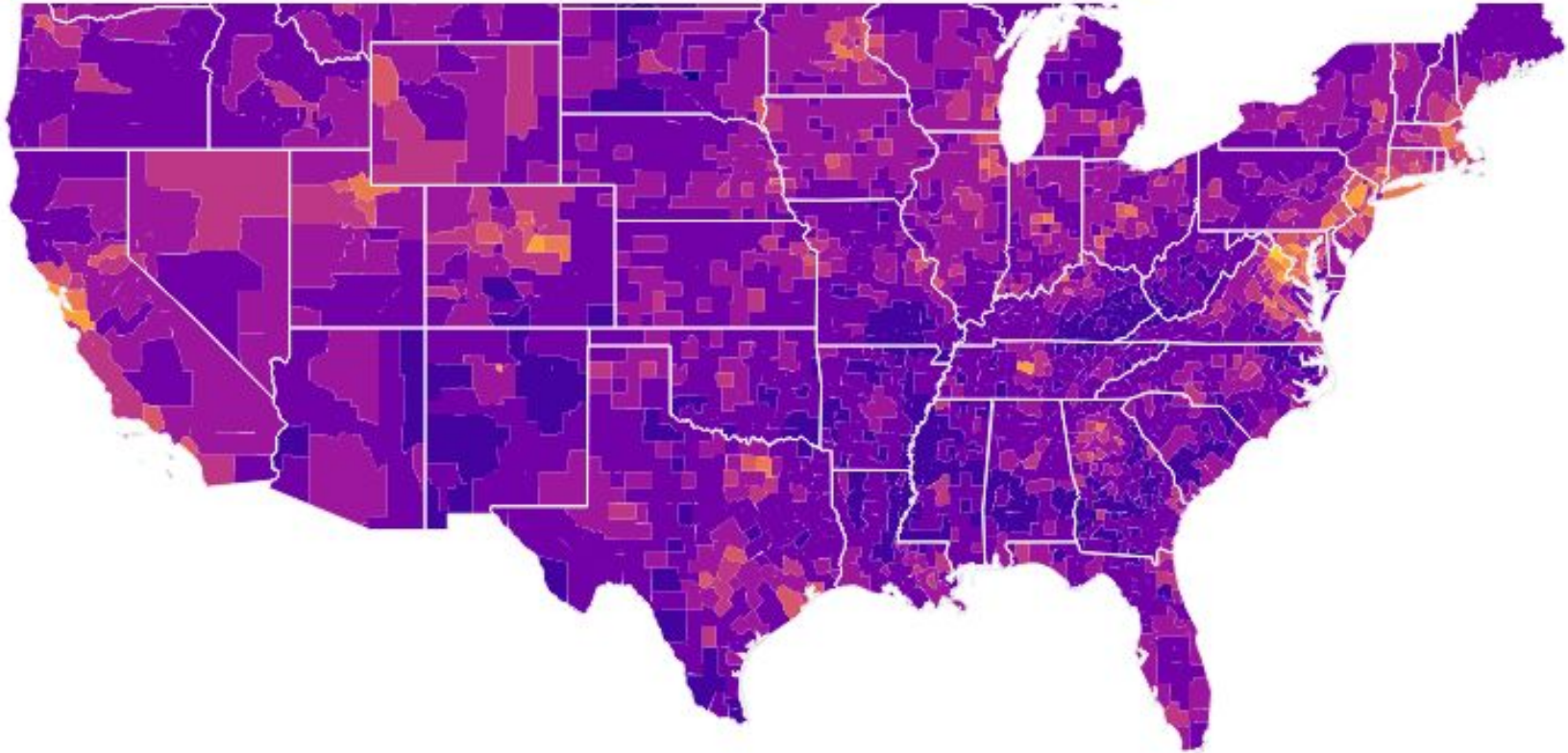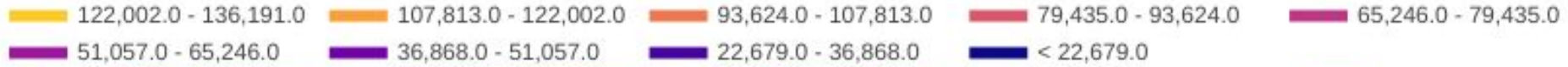-Uninsured Children

-Food Insecure

Diabetic percentage in USA

Biggest positive Impact on Life Expectancy:

- Household Median Income

Median Income in USA

Solutions

Food Security

- Improve the access to Healthy Foods
- Campaign against fast food
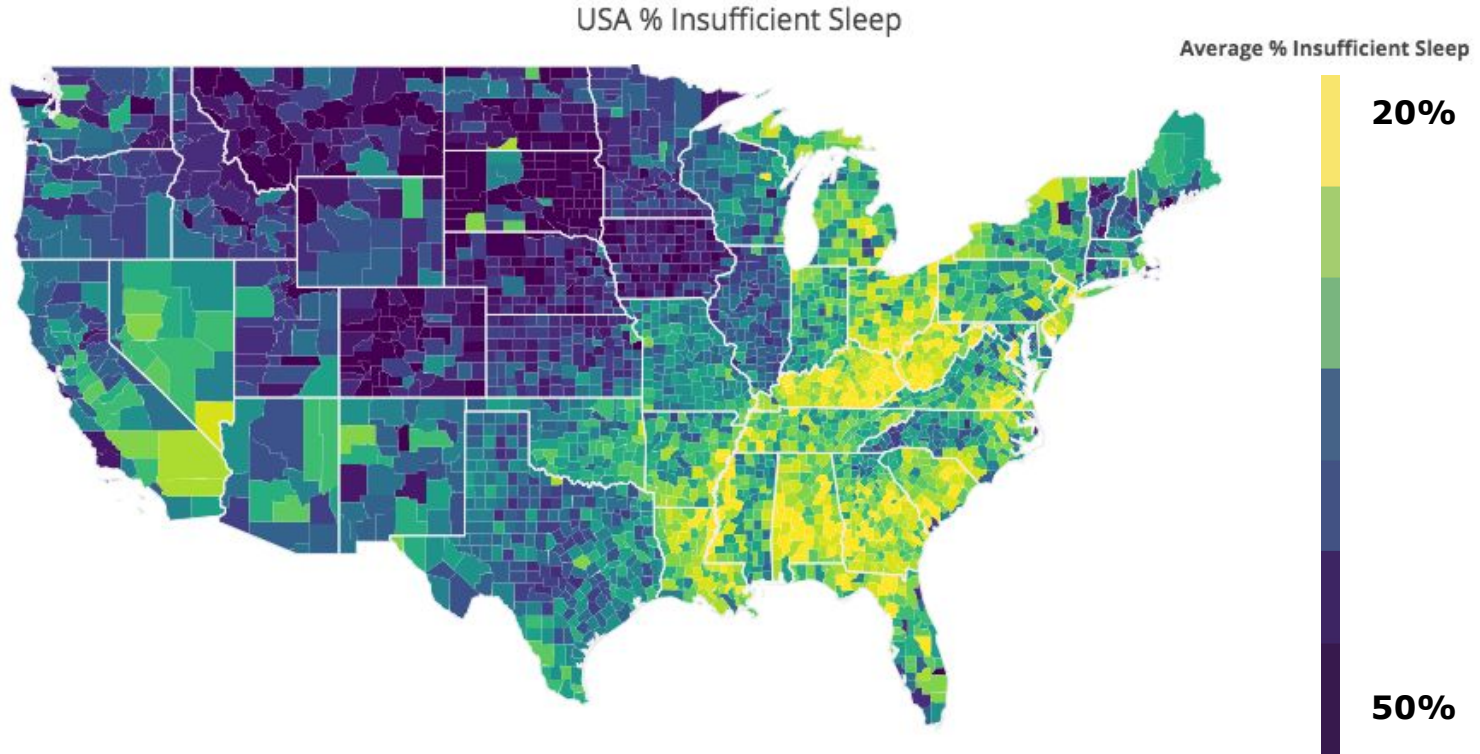
Household Income

- Increase minimum wage
- Create higher paid jobs in certain areas
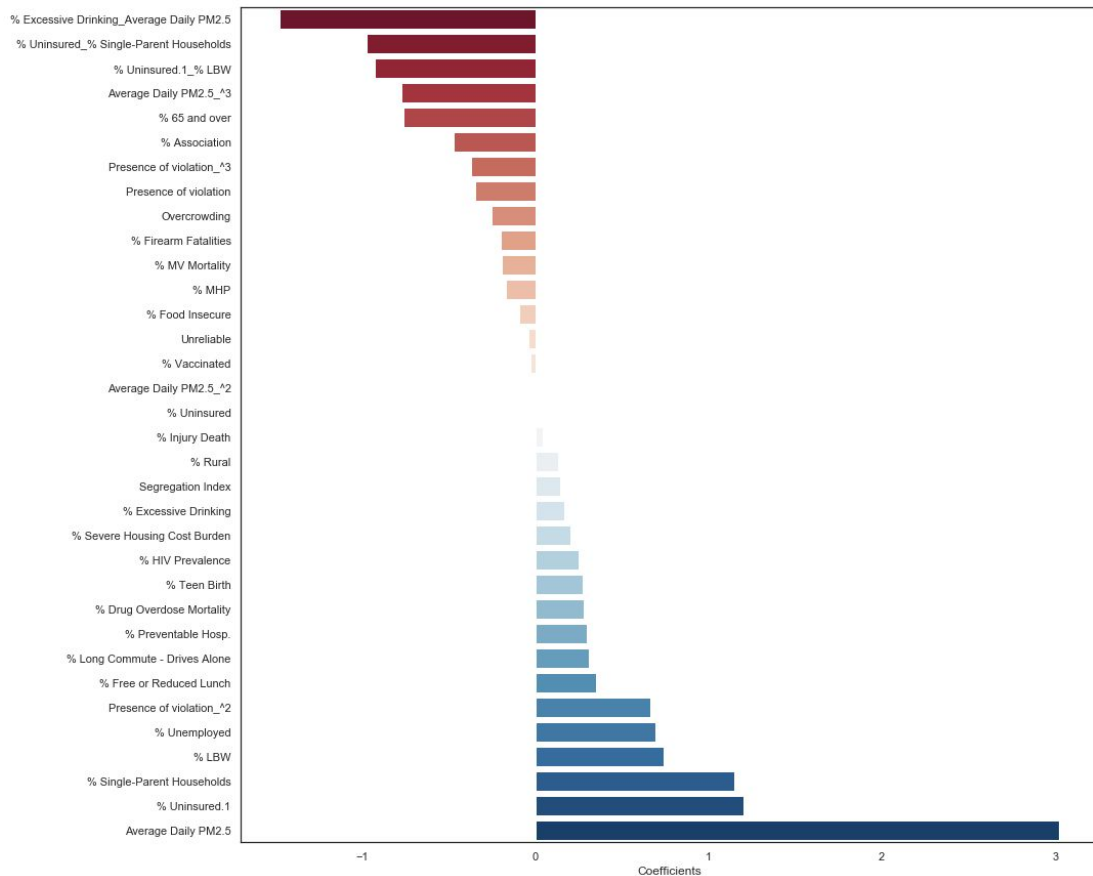- Reduce taxes for poor people

Children Insurance

- Make sure families are insured

Insufficient Sleep Rate Heatmap

USA % Insufficient Sleep

Average % Insufficient Sleep

20%

50%

North-east has higher insufficient sleep rate than South-west

How does it impact insufficient sleep rate

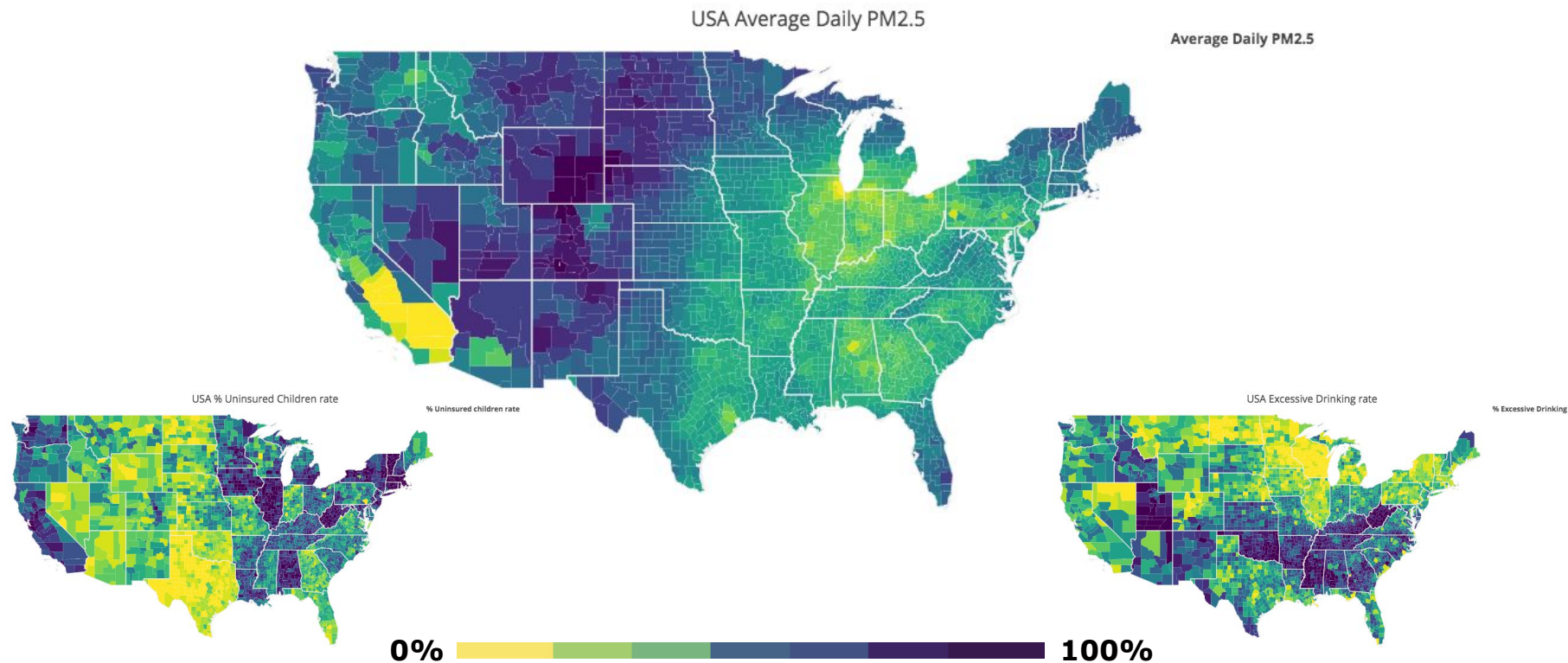Top 3 factors:

+Air quality (PM2.5)

-% Excessive Drinking and Air quality (PM 2.5)

+% Uninsured Children

Model:

Elastic Net Regression with

Cross Validation of 10,

L1_norm ratio =0.5
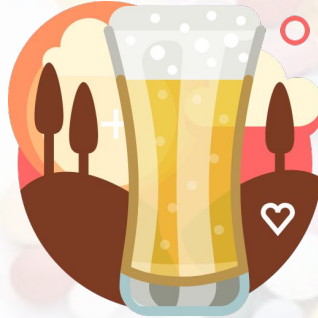
How does it impact insufficient sleep rate

USA Average Daily PM2.5

Average Daily PM2.5

USA % Uninsured Children rate

% Uninsured children rate

USA Excessive Drinking rate

% Excessive Drinking

0% ▬▬▬▬▬▬▬▬ 100%

Solutions

Improve air quality

- Clean energy resource
- More plants
- Indoor Air filter

Drink moderately

- A bit of alcohol could help with sleep

Children Insurance

- Make sure your family insured

Q&A