

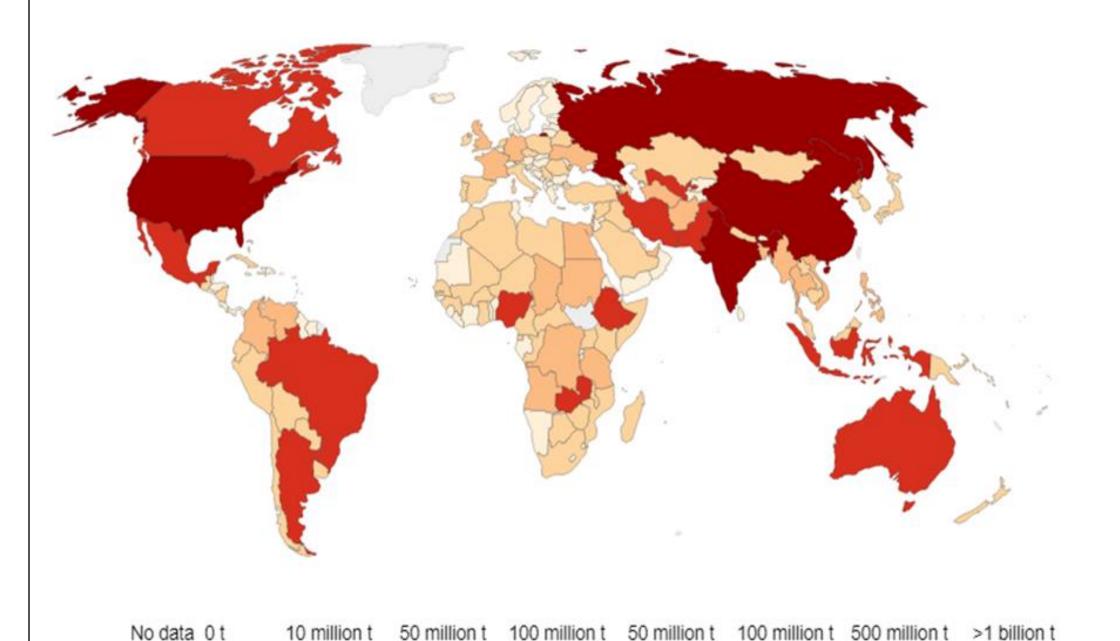
## CSU

Bakersfield

School of Natural Sciences, Mathematics, and Engineering

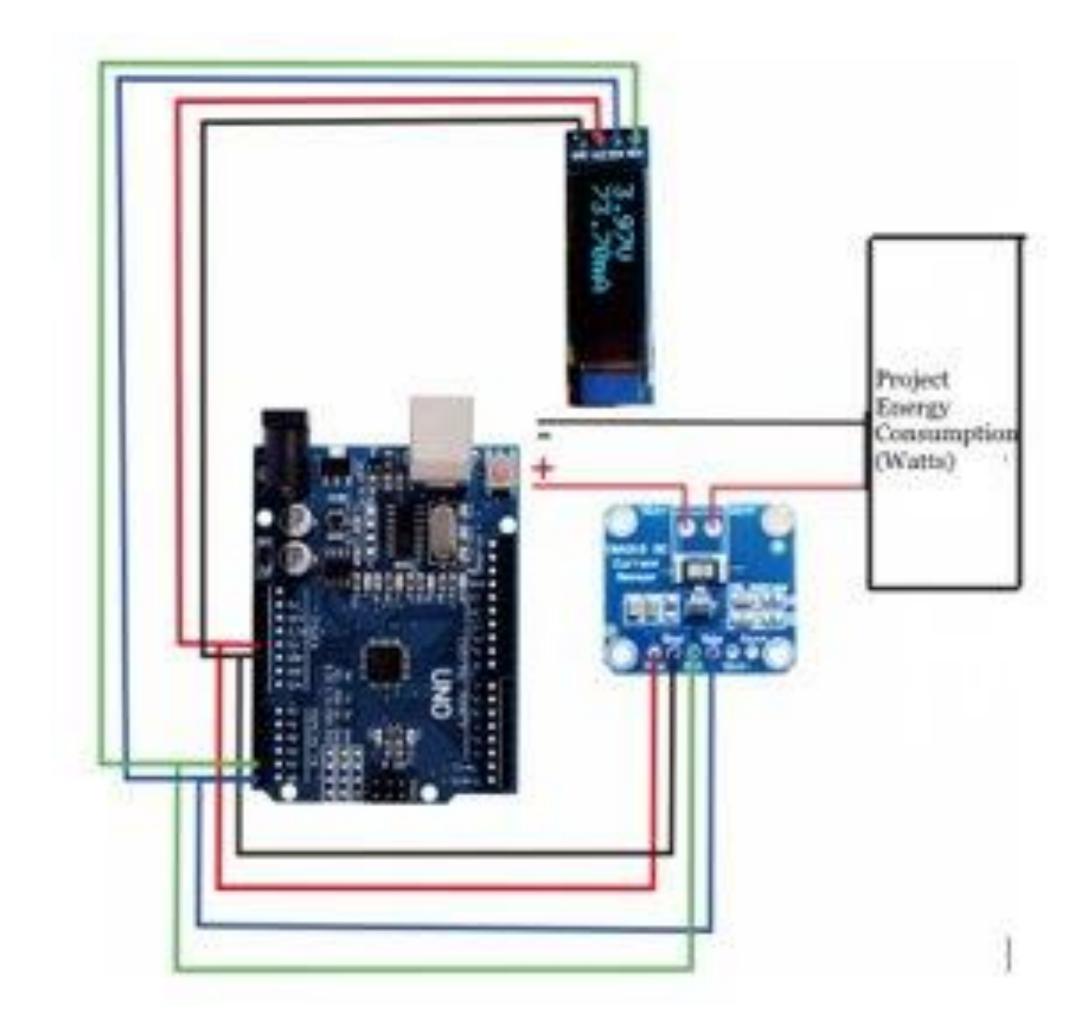
Greenhouse gases cause...

- climate change by trapping heat
- Respiratory disease from smog and air pollution
- Extreme weather
- Food supply disruptions
- Increased wildfires
- Damage to the ecosystem

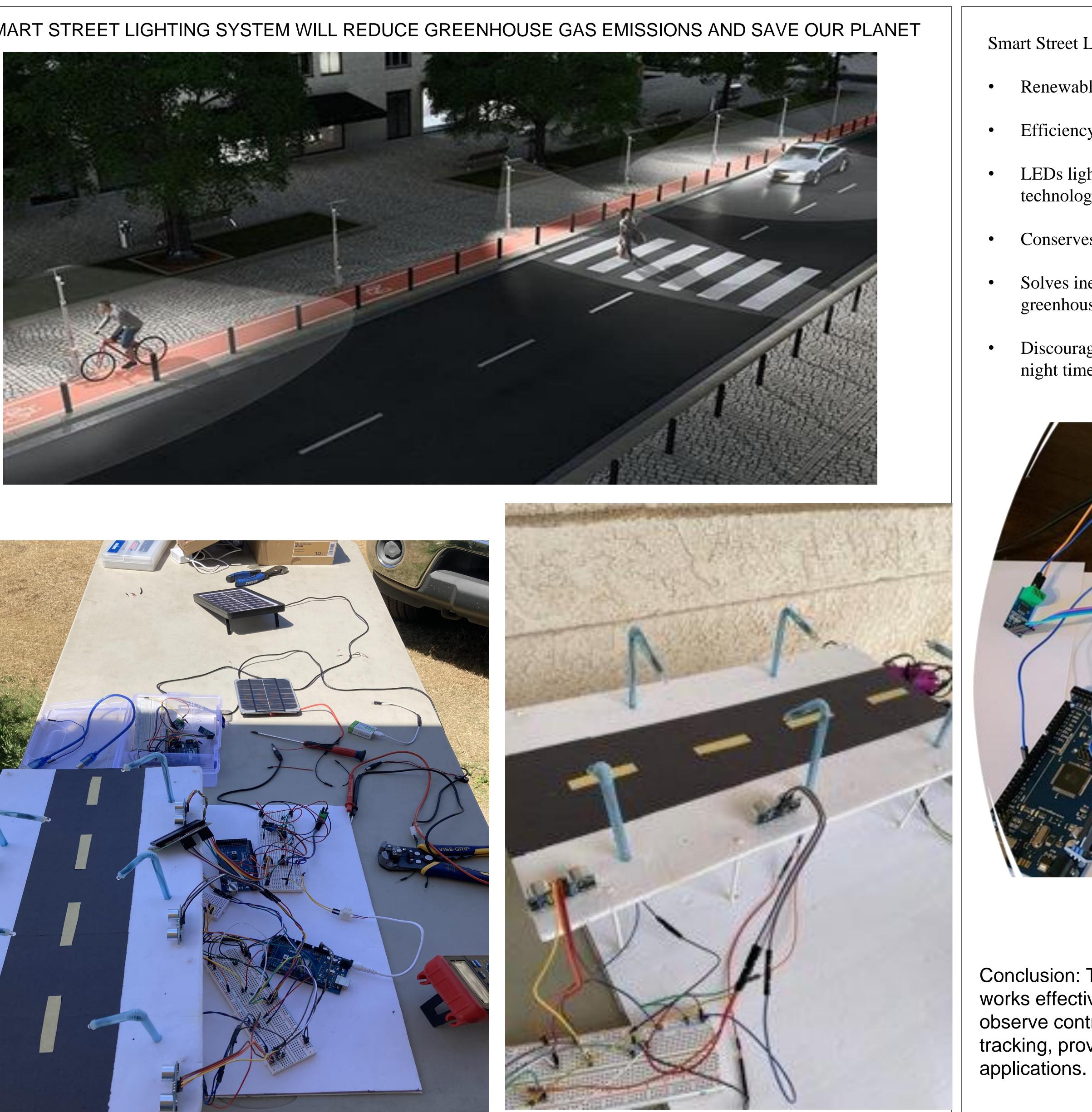


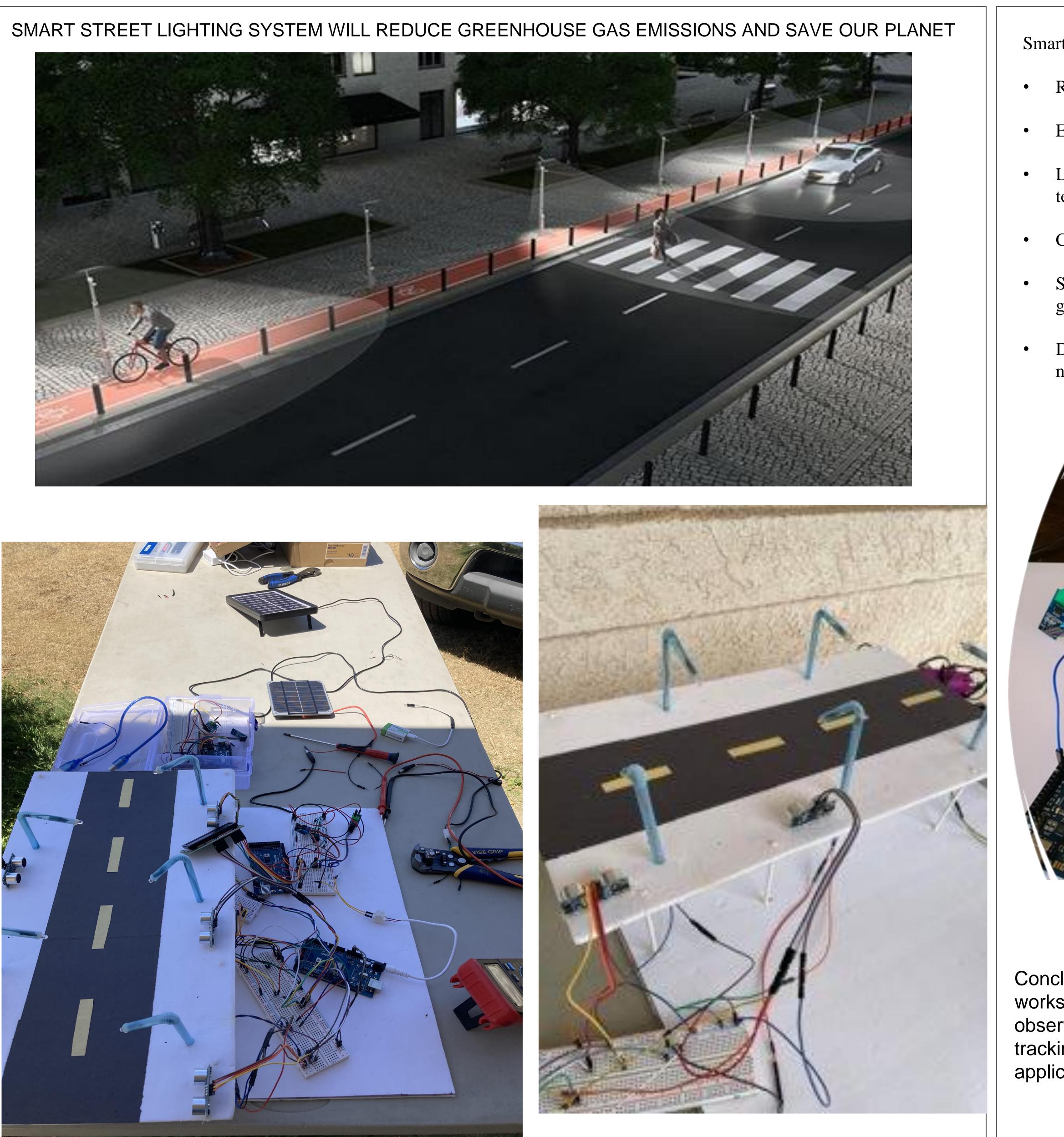
World Map of Greenhouse gas emissions shown in metric

tons



## SMART STREET LIGHTING SYSTEM ...eliminating climate change, one light at a time. Johnathon Street, Esteban Linares, Guadalupe Quinones, Irvin Juarez, Steven Saucido

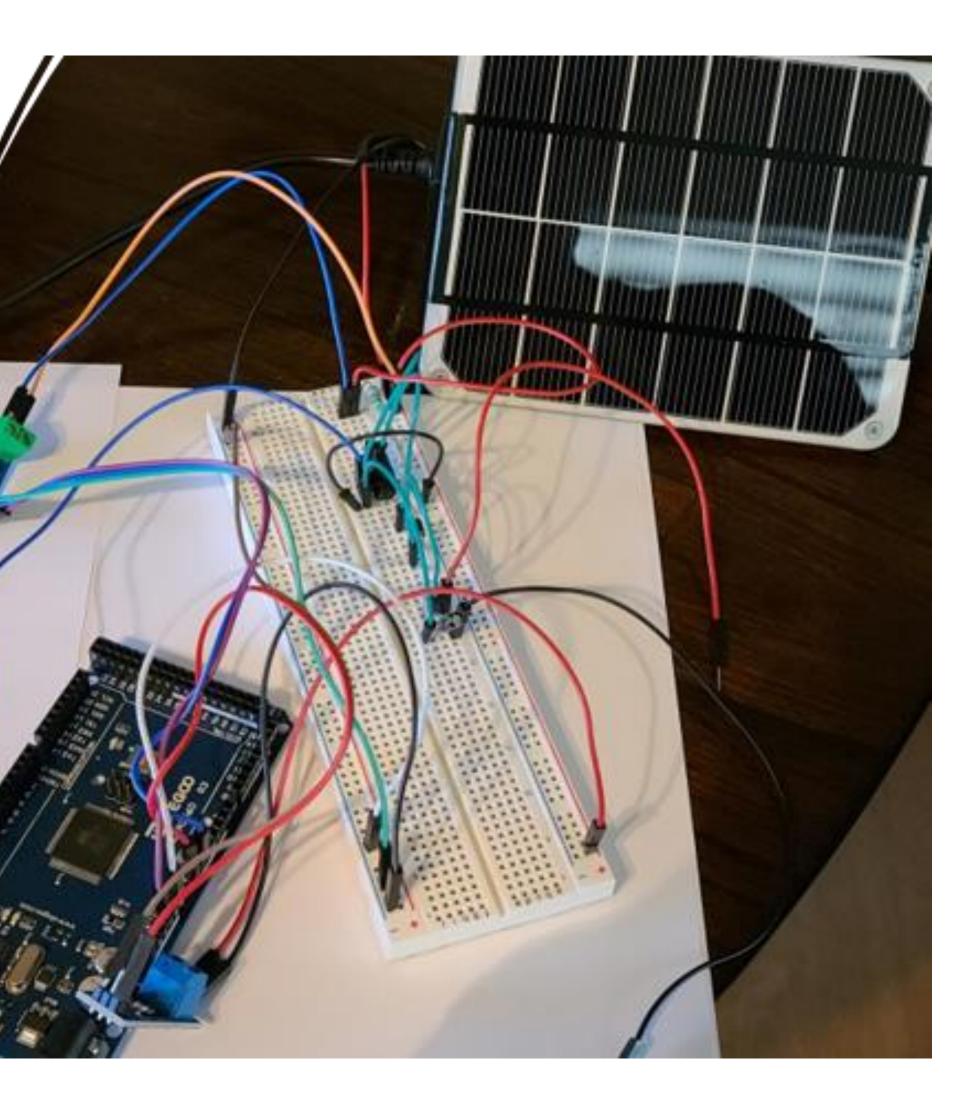




Department of Computer and Electrical Engineering and Computer Science

Smart Street Lighting System

- Renewable Energy source = Solar Powered
- Efficiency/ Low cost maintenance
- LEDs light up with advanced object detection technology to keep US safe
- Conserves energy by remaining off when no activity
- Solves inefficient polluting sources such as greenhouse gases
- Discourages criminal from committing crime acts at night time



Conclusion: The smart street lighting system model works effectively in conjunction with a perturb and observe controller for maximum power point tracking, providing the basis for real world