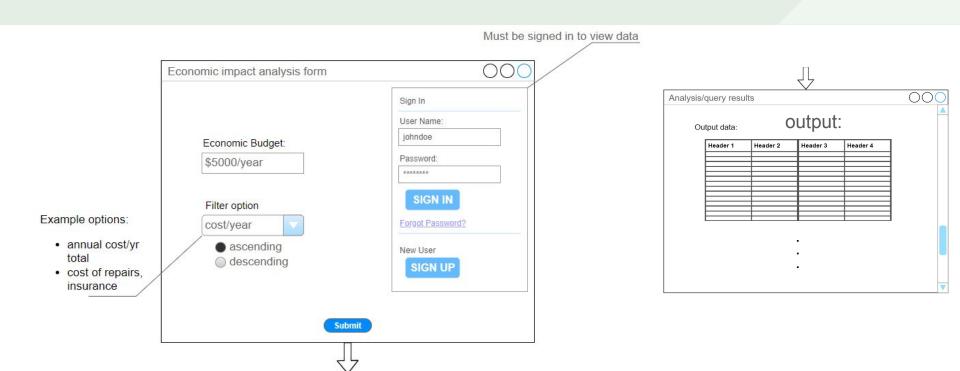
## **Mid-Semester Project Presentation**

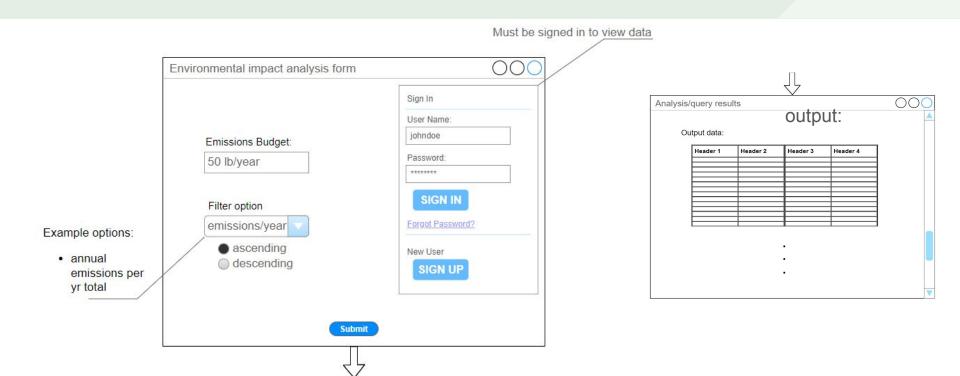
# TCNJ Vehicle Fleet Management

Jenna Stiesi, Parvathi Krishnan, Peter Kobasa, Christina Farah, Jessica Giardiello, Sarah Rulkiewicz, Joey Carmichael

# Web interface: Economic impact



# Web interface: Environmental impact





## **Financial Variables Considered**

- Direct, Fixed, and Indirect Costs
  - Direct: Depreciation exp., monthly payments, significant maintenance (tires, brakes, batteries, etc.)
  - Indirect: Unexpected breakdowns, insurance, routine maintenance (oil changes)
  - Fixed: Insurance, depreciation exp., monthly payments, expected routine maintenance
  - Variable: Gasoline, unexpected (significant) maintenance

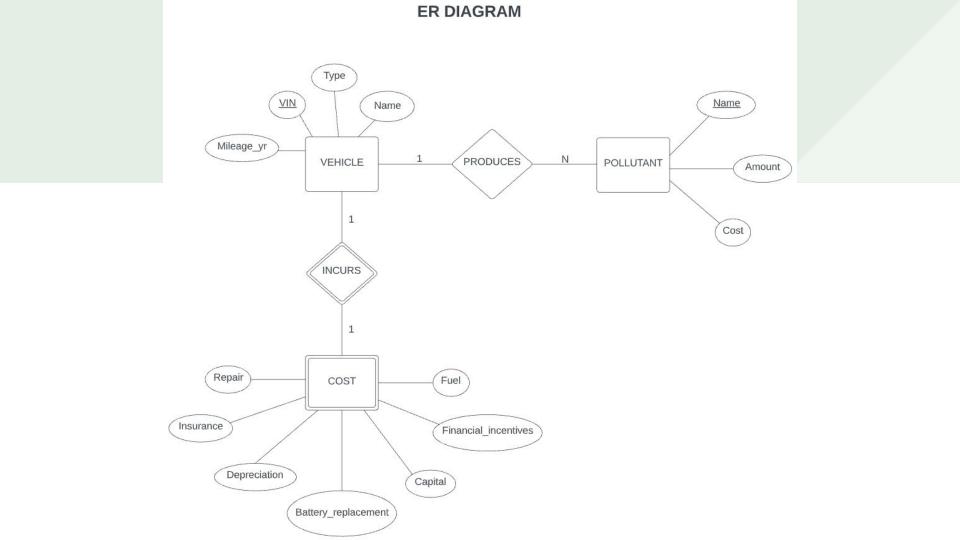
### Cost Drivers

- Type of fuel determines how much is spent
- Size/weight of each vehicle drives up fuel costs
- Miles driven → the more miles driven leads to more repair/maintenance costs

### Cost Objectives

- Annual and total cost of vehicle ownership per year
- Annual and lifetime pollutants emitted per year





#### **RELATIONAL SCHEMA**

