Problem

**Carbon Footprint of Transportation**

~15% of global CO₂ emissions

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**Poor Mental Health due to COVID Isolation**

- In a recent study, 86% of students who experienced stress cited increased isolation due to COVID-19 as a mild to severe source of stress.

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**Our Goal**

- To help minimize WPI's carbon footprint while promoting mental health and a sustainable lifestyle through the expansion of micromobility options on campus.

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Gompei's Gears

- Student run bike share program that offers free non-electric bike rentals for up to 8 hours.
  - Few students to perform maintenance.
  - Lack of funding for replacement parts and new bikes.
  - Small spaces for maintenance and storage.
  - However, large demand and user base.

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Survey Data

How frequently could you see yourself using a an E-bike or E-scooter program?

- Never: 39.3%
- Sometimes: 55.3%
- Frequently: 5.4%

56 Responses

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E-Bikes and E-Scooters

**E-Bikes**

- There are many different types of E-bikes, however all of them are more sustainable than E-scooters.

**E-Scooters**

- While more efficient than cars, E-scooters create more carbon emissions than bikes or E-bikes during their production and lifetime usage.

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2019 Data for Gompei's Gears

**Number of Bike Rentals**

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Improving Gompei's Gears

- If WPI is to meet its 2025 sustainability goals, expanding Gompei's Gears should be a priority.
  - Permanent space to store and service bikes.
  - Funding to restore or replace worn out bikes.
  - Hire students to perform regular maintenance.
  - Expanding the fleet of bikes to more locations.
  - Adding E-boosted bikes to improve accessibility to in-experienced cyclists.

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References

[References for the document are not provided in the image.]

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