

# Bike Commuter Resource Center

Kari E. Perry<sup>1</sup>, Christopher Ischay<sup>2</sup> (mentor)

<sup>1</sup>Department of Mechanical and Industrial Engineering, Montana State University

<sup>2</sup>Business Management, Facilities & Site Services, Idaho National Laboratory

The BCRC improves bike commuting by providing education, resources, and events to the INL community.

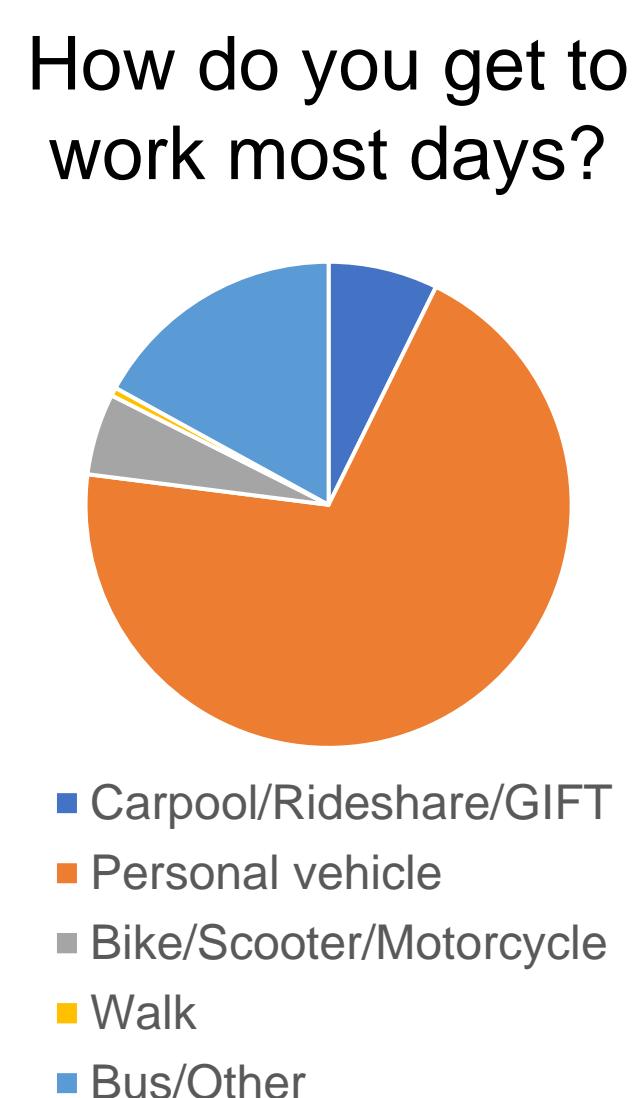
## Objectives

1. Assess the bike access problem.
2. Work with our partners to develop collaborative solutions.
3. Make INL and Idaho Falls national leaders in bikeable communities.
4. Reduce employee commuting emissions.

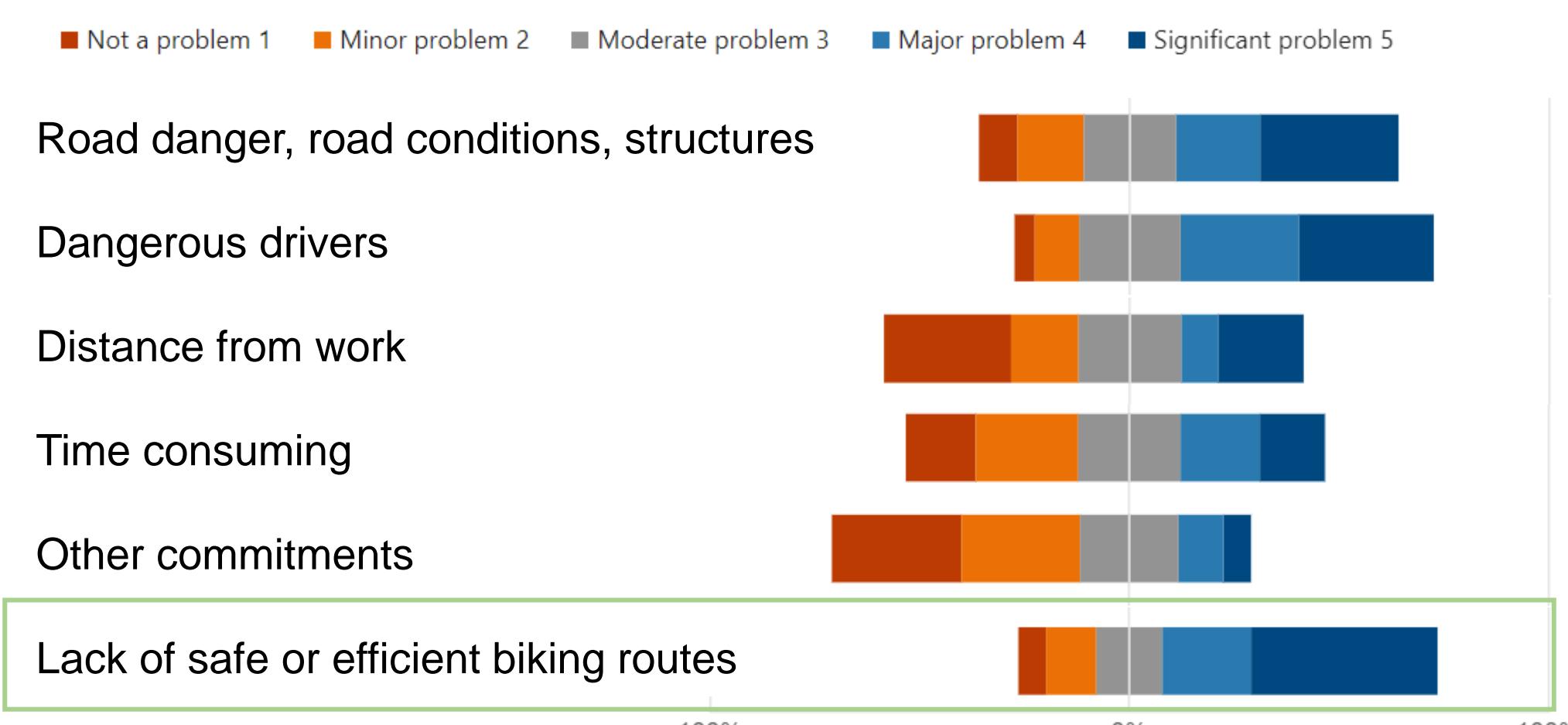
## Collaborators

- INL Net-Zero Program
- Facilities & Site Services
- Center for Advanced Energy Studies
- IF Connecting Us, Sustaining Progress Committee

## Survey Results



How large is each of the following problems concerning biking to work?



### Top rated resources:

- Charge codes
- Safe routes map
- Bike lanes
- REC shared bikes
- More racks
- Bike work stands

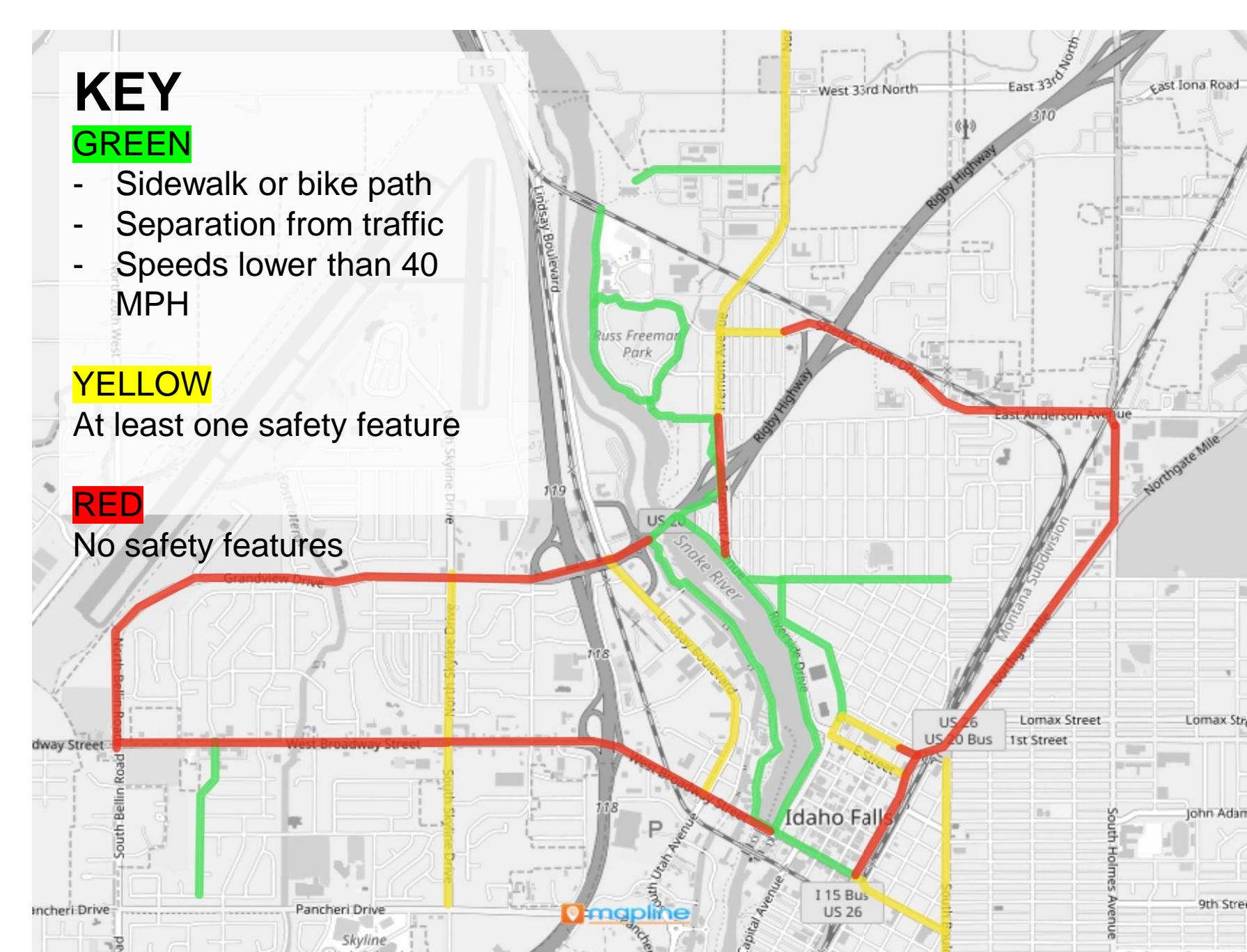
## The Team

Top row (left to right):  
Miranda Cardenas, Hannah Smith, Avery Rambur, Dylan Cox, Lydia Beardsley.  
Bottom row: Katelyn Shadley, Kari Perry.  
Not pictured: Hayden Pritchard.



## "Safe Routes to INL" Map

The map will help bikers get to work safely, and will include biker-friendly routes, potential hazards, and pins locating resources such as work stands and lockers.



## Projects

### Website on Nucleus

The BCRC virtual platform will host the educational resources, interactive map, community board, and promote the biking accessibility events.

## Reducing Emissions

**Scope 3 emissions** at INL come from activities such as employee commuting, business travel, and other sources. Biking to work can significantly decrease the **Scope 3 emissions**.

Based on the data collected from the survey and average vehicle emissions, it was calculated that INL could save:

**-233,280 kg of CO2**

if just 5% of INL employees biked to work, rather than drove their personal vehicle, for one year.

## Bike Work Stands

Work stands will be placed around **REC** to give bikers access to tools for quick fixes, including a bicycle pump and hex tools.



## Future Projects

- Launch the **BCRC** website
- Meet with city council members to discuss bikeable infrastructure in Idaho Falls
- Create video resources on bike maintenance
- Host a Bike to Work event
- Launch an incentive program

## Acknowledgements

This project and actions listed in this report were supported by the Collaboration Challenge at the 2022 Innovation Week hosted by the Net-Zero Program. The **BCRC** is supported by the Net-Zero Program at INL, but not in a direct financial capacity.

Research reported in this publication was supported by the National Institute of General Medical Sciences of the National Institutes of Health under Award Number P20GM103474 and P20GM103408. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.