E-BIKE SAFETY

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THE PROBLEM

- Growth popularity
- Increased injury rates/crashes
- Pre-drivers on the roads
- Lack of awareness
- Lack of regulations

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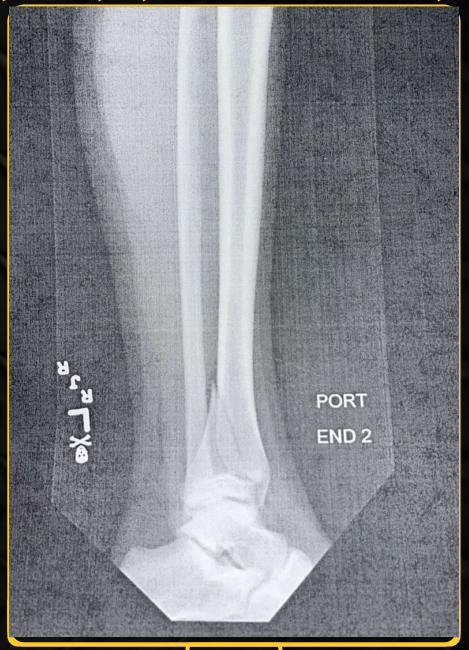
THE RISKS

- No Helmet
- Heavy bikes
- Riding double
- Traffic w/ cars
- High speeds
- Weather/ visibility
- Steep roads

PERSONAL EXPERIENCE #1

- Helmets were on
- Broken Tibia: “It was SO painful like I can’t even explain it”
- Experimental surgery - cast & crutches for over a month
- Unable to ride e-bikes again
- Still affected today with physical activity.
- Says e-bike safety is not as strict as it should be in the mountains



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PERSONAL EXPERIENCE #2

- 12 years old
- Flew off curb over handlebars
- Was wearing helmet
- Broke both arms
- 7 stitches in upper lip
- Doctors said if he didn’t have a helmet he would have died.

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PERSONAL EXPERIENCE #3

- Not wearing a helmet
- 2 people on the bike
- Confident
- Injuries
- Regrets not wearing a helmet
- Recovery
- Reflection

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STATISTICS

- According to ucsf.edu- From 2017 to 2022, the number of e-bike injuries **increased** from 751 to 23,493.
- According to latleehall.com- 2022, injuries from e-bikes **increased** 21% compared to 2021.
- **Common** injuries include broken bones, blunt injuries, and head injuries.
- Children are **especially vulnerable** to injuries from e-bikes.

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STATISTICS

- According to atleehall.com- Between 2017 and 2022, **at least** 233 deaths were associated with micro mobility devices, including e-bikes.
- Fatalities associated with e-bike ridership have increased **exponentially**.
- The risk of a fatal crash is **higher** on an electric bicycle than for conventional bicycles.

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HOW WILL OUR PROJECT IMPROVE THE HEALTH OF OUR COMMUNITY?

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- Safer environment for everyone

- Continue to allow the benefits E-bikes provide

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WHAT ARE THE PRIMARY CAUSES?

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-Speed

-Inexperience (overconfidence)

-Sharing the road with cars

-Weather/Terrain

-People (especially kids)

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THE SOLUTION

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-Helmet enforcement

-Reflective material

-“License” or certification

-Etiquette

-Speed warnings

- School Assemblies

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WHAT CHALLENGES WE CAN FACE WHEN IMPLEMENTING OUR PROJECT

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-Overconfidence in people

-People not listening/low awareness

-Not using/buying e bikes

-Money

-Avoiding distractions/surrounding pressures

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HOW DOES THIS ISSUE AFFECT OUR COMMUNITY?

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PARK CITY

- Small community
- Sidewalks
- Active community
- Youth population
- A lot of E-Bikes

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What do you think would be most successful?

- More incentives
- Easy-to-use safe equipment
- Spreading the word
- Regulating things in our control

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THANK YOU!

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CREDITS

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