

E-bike Safety Plan

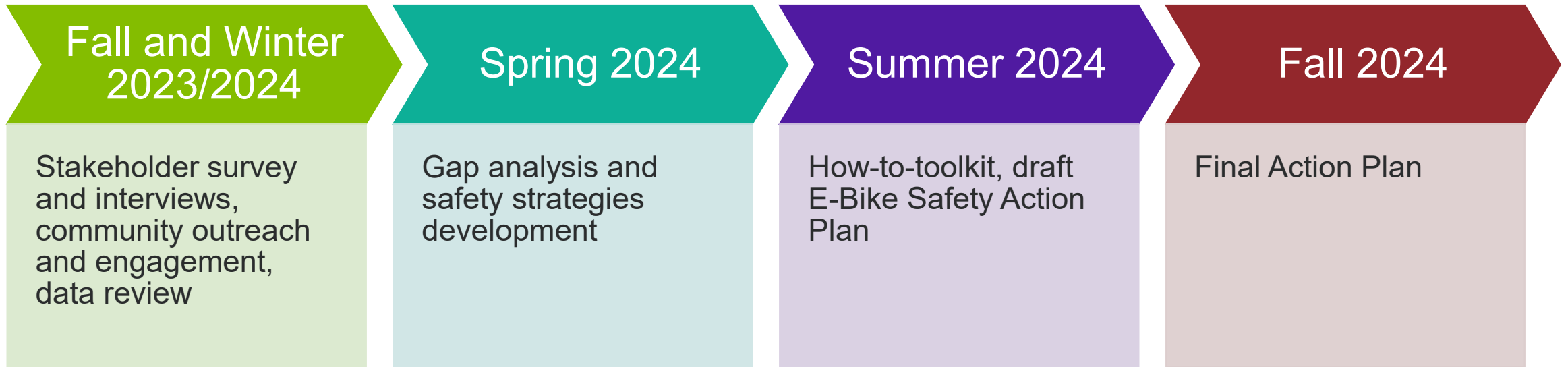
TOOLE
DESIGN



OCTA E-Bike Safety Plan Goals

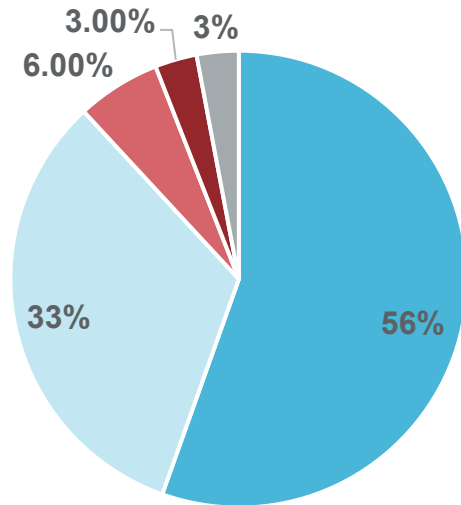
- **Analyze gaps** in existing e-bike safety resources and strategies
- **Engage the community** and provide e-bike safety education
- **Provide recommendations** to facilitate the use of e-bikes as a safe and reliable form of transportation in Orange County

Timeline Recap



Stakeholder Survey Results

How has e-bike usage in your city/region changed over the last year?



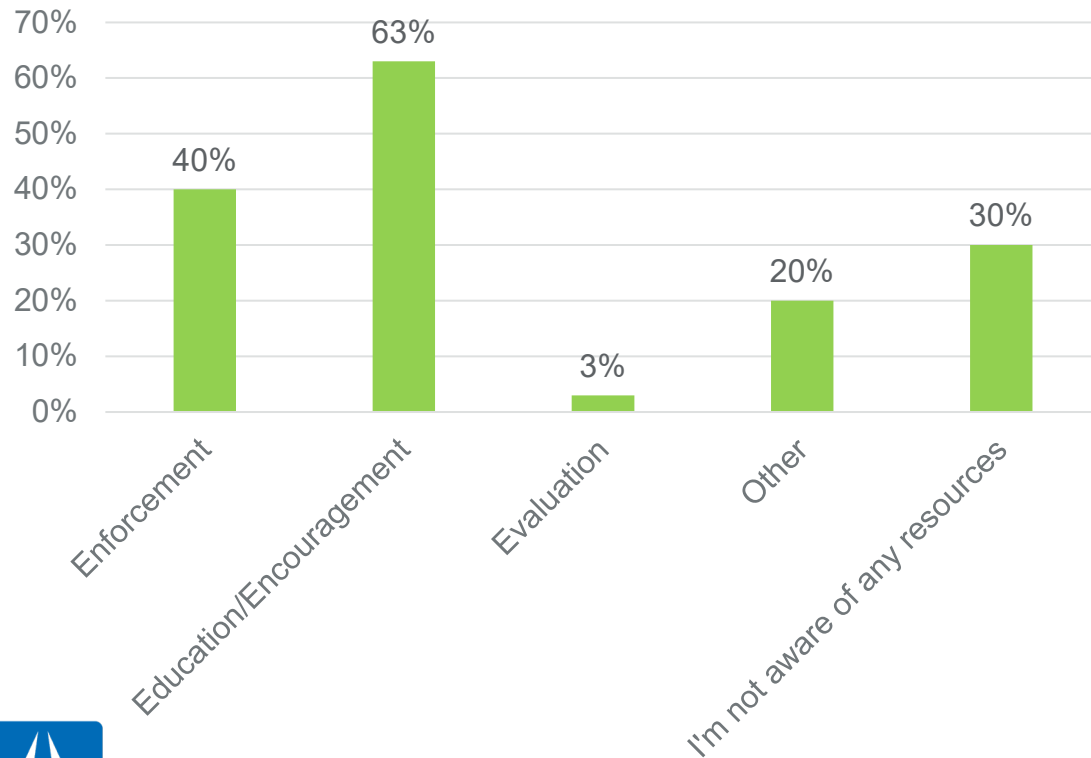
■ Major Increase ■ Moderate increase ■ Stayed the same
■ Moderate decrease ■ Don't know

Top 5 ranked e-bike safety issues

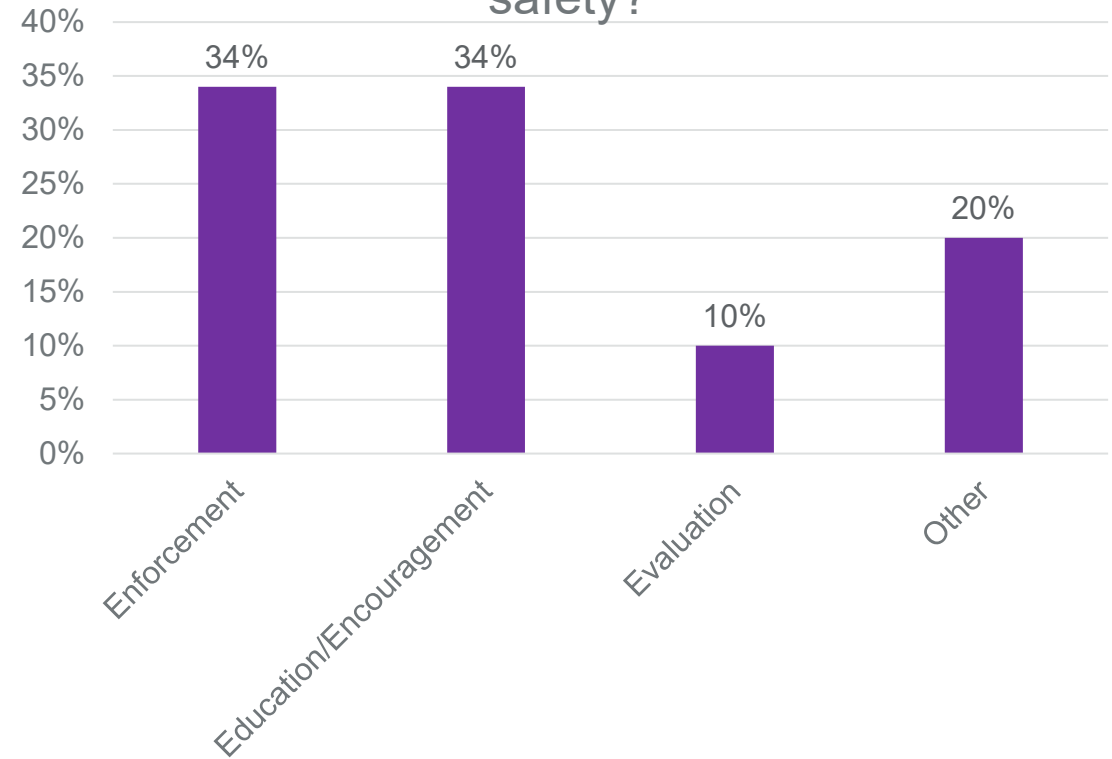
1. E-bike speeds
2. Adherence to traffic laws
3. Youth riding
4. Helmet usage
5. Conflicts between e-bikes and pedestrians

Stakeholder Survey

What resources **have been or are available** in your community to support e-bike safety?



What resources are **most-needed** in your community to support e-bike safety?



Non-Infrastructure Efforts

Events and Programming	Participating Jurisdictions/Agencies
School presentations/trainings and bike safety rodeos	Huntington Beach, Irvine, Los Alamitos, Mission Viejo, Newport Beach, Costa Mesa, San Juan Capistrano, Tustin
Required classes or informational sessions before students can use their e-bike or park it on campus	Irvine, Laguna Beach, Huntington Beach
Bike mechanical support	Santa Ana Active Streets
Enforcement	
Warnings for e-bike rider violations	Costa Mesa, Irvine, Laguna Beach
School patrols (mostly used for educational purposes)	CHP
Education	
Podcasts and blogs	CHOC
Safety and training program	CHP
Website	OCTA
Trail etiquette signage	Laguna Niguel, Mission Viego
Factsheets/handouts (e-bike classifications, e-battery safety, rules of the road)	Seal Beach, Laguna Niguel

Data Source Inventory

1. E-Bike Policy and Regulations

2. E-Bike Activities

3. E-Bike Crashes



Inventory available data

Identify gaps

- Countywide/Local E-bike Regulations and Ordinances
- Local Active Transportation Plans
- E-bike traffic counts
- E-bike sales
- E-bike funding for programmatic activities and/or funding for infrastructure
- Collision data from local jurisdictions
- Statewide Integrated Traffic Records System (SWITRS)
- Hospital Records, Health Insurance Claims, Emergency Medical Service (EMS)
- Case Studies





INFRASTRUCTURE:

Continue to advance bikeway infrastructure that fosters safe e-bike riding.

Strategy

1. Support local and regional implementation of connected, separated bicycle infrastructure and related bicycle facilities.



LEGISLATION:

Support policies and projects to increase safety requirements related to the utilization of electric bicycles.

Strategy

2. Continue to monitor local and state legislation related to e-bikes to act as a resource for jurisdictions and advocates.

Where possible, update County regulations to support consistent policies.

3. Partner with Orange County school districts to enact e-bike education policies that encourage safe student e-bike riding.



COLLISION AND INJURIES:

Build understanding of micromobility crash and risk factors, especially those resulting in killed or severely injured.

Strategy

4. Collaborate with agencies to enhance standardized tracking and monitoring of micromobility-involved crashes at the county level.
5. Assess the qualitative safety and infrastructure experience of traveling in Orange County on e-bike and other micromobility modes.
6. Evaluate micromobility crash trends, patterns, and risk factors.



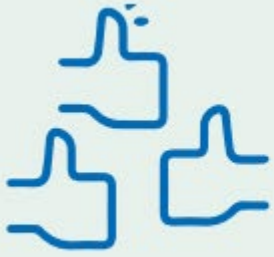
RIDERSHIP:

Understand growth trends and hot spots for micromobility usage.

Strategies

7. Improve and expand the existing OCTA cyclic count program.

8. Broaden the sources of micromobility ridership and activity data collection.



EDUCATION & ENCOURAGEMENT:

Target behavior change for key groups affected by e-bike safety issues.

Strategies

9. Develop targeted, age-appropriate education on e-bike safety to riders who are most at risk in Orange County: the school community (parents, students, and staff) and older adults.

10. Partner with organizations and ongoing initiatives that serve target audiences to directly provide educational and encouragement resources and programs.

11. Share E-Bike Safety Action Plan findings as a resource for other agencies to encourage e-bike adoption and safe e-bike ridership.



RETAILER COLLABORATION

Leverage micromobility retailers for outreach and data collection.

Strategy

12. Build and sustain relationships with local e-bike retailers, partnering on safety education and encouragement efforts

Thank you, questions?