

A blurred, teal-tinted background image showing a crowd of people, likely at a public event or transit station, with some individuals' legs and feet visible in the foreground.

Local Road Safety Plans & the Safe System Approach

OCTEC | February 25, 2021

PANELISTS



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Presentation Overview

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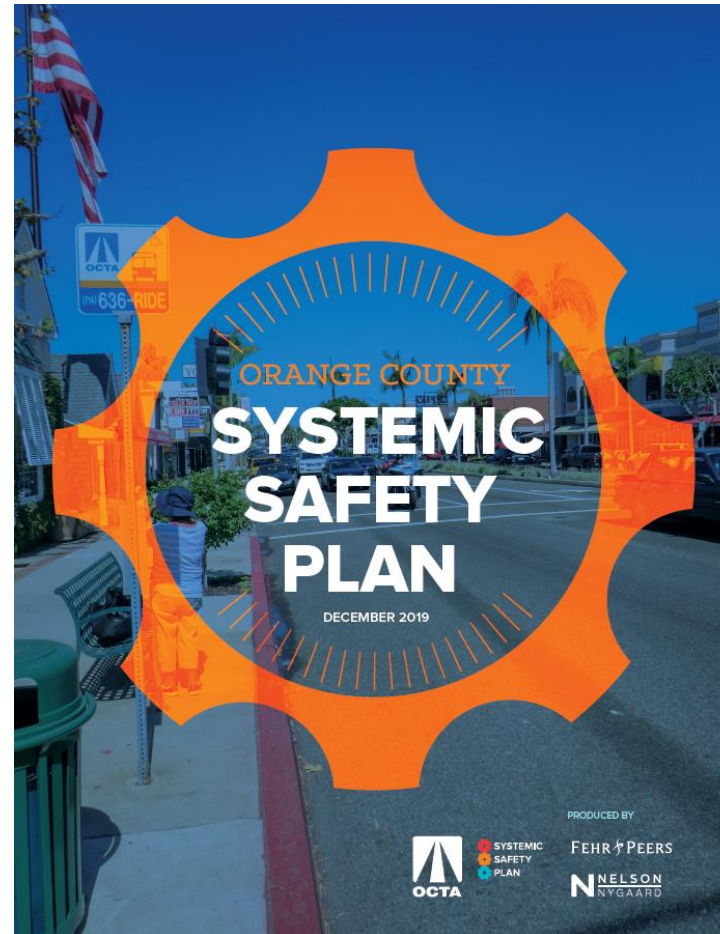
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LOCAL ROAD SAFETY PLAN OVERVIEW

- Relationship to FHWA and state safety efforts – SSAR, HSIP, SHSP
- \$18m total available; allocation based on population and lane miles

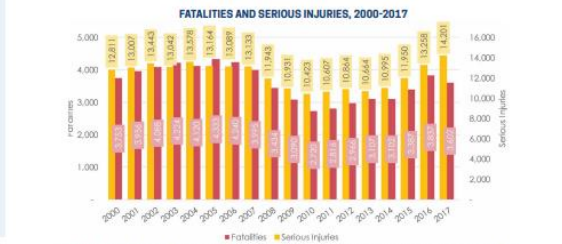


CALIFORNIA SAFE ROADS 2020-2024 SHSP Fact Sheet



Background

California's Strategic Highway Safety Plan (SHSP) is a statewide, comprehensive, data-driven effort to reduce fatalities and serious injuries across all travel modes and on all public roads. Started in 2005, the SHSP is updated regularly to ensure continued progress and meet changing safety needs. Currently, over 580 safety stakeholders from over 230 public and private agencies and organizations work together on this effort under the guidance of the SHSP Executive Leadership and SHSP Steering Committees. The SHSP addresses the "5 Es" of traffic safety: engineering, enforcement, education, emergency response, and emerging technologies.



April 2020

LOCAL ROAD SAFETY PLAN COMPONENTS

- Vision & Goals
- Safety Partners
- Existing Efforts
- Data Analysis
- Emphasis Areas & Strategies
- Evaluation & Implementation



LOCAL ROAD SAFETY PLAN COMPONENTS

FEHR  PEERS

Local Roadway Safety Plan Component	SSAR	Vision Zero
Strategic Planning	✓	✓
Partnerships	—	✓
Public Outreach	—	✓
Discussion of Existing Efforts	—	—
Systemic and Data-Driven Approach	✓	✓
Strategies for Education, Enforcement, and Emergency Services	✗	✓
Evaluation and Implementation	✗	✓

✓ LIKELY INCLUDED

— POTENTIALLY INCLUDED

✗ LIKELY NOT INCLUDED

POTENTIAL ENHANCEMENTS FOR LOCAL ROAD SAFETY PLANS

- Engagement focus
- Equity focus
- Emerging technology focus
- Connection to HSIP
- Connection to SSAR or other safety planning efforts



Safe System Overview

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SAFE SYSTEM

APPROACH

Zero is our goal. A Safe System is how we get there.



U.S. Department of Transportation
Federal Highway Administration



Safe Roads for a Safer Future
Investment in roadway safety saves lives

OUR CURRENT REALITY

Traffic fatalities are a public health crisis affecting all road users.

1.25M

Lives lost globally each year from traffic crashes

Source: World Resources Institute

36,835

Lives lost on US roads in 2018

Source: NHTSA

6,283

Pedestrians killed in US traffic crashes in 2018

Source: NHTSA

A NEW DIRECTION

The Safe System approach aims to eliminate fatal and serious injuries for all road users by:

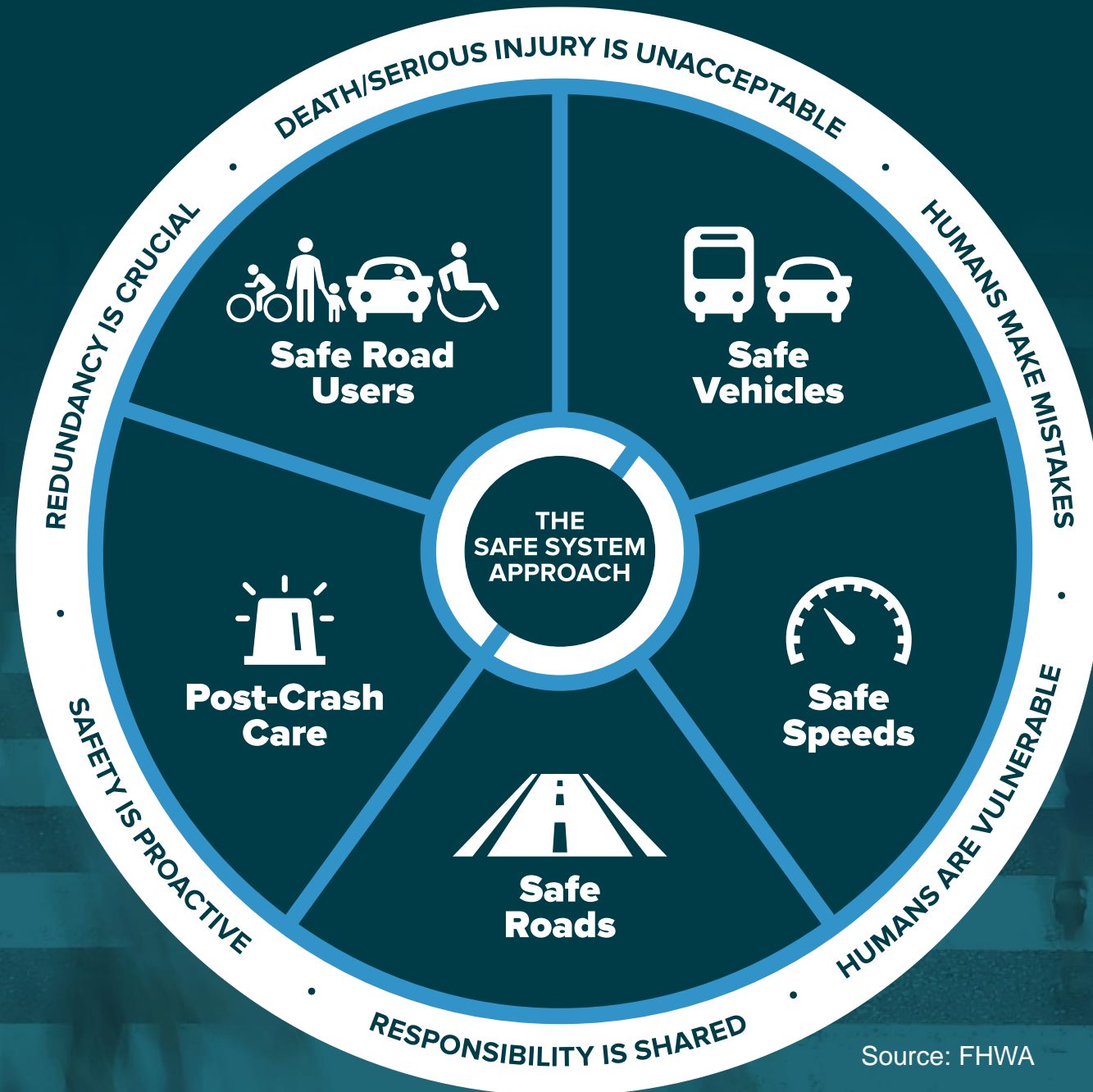


**Accommodating
human mistakes**



**Keeping impacts on the human
body at tolerable levels**

THE SAFE SYSTEM APPROACH



Source: FHWA

THE 6 SAFE SYSTEM PRINCIPLES



Source: FHWA

RESPONSIBILITY IS SHARED



System managers

Planners, designers, builders, operators,
maintenance workers



Vehicle manufacturers



Law enforcement personnel

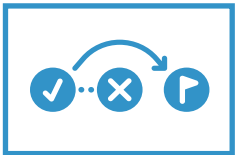
Post-crash personnel



System users



SAFETY IS PROACTIVE



Identify risks



Mitigate risks

THE 5 SAFE SYSTEM ELEMENTS



Source: FHWA

POST-CRASH CARE



Vital post-crash actions include:



First
responders



Medical care



Crash
investigation



Traffic
incident
management



Justice

Common LRSP Challenges

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CHALLENGES RELATED TO HSIP

- HSIP is increasingly competitive
 - Avg BCR in Cycle 4 = 7.9
 - Avg BCR in Cycle 9 = 17.7
- Countermeasure limitations
- Constraints on systemic recommendations

Local Roadway Safety
A Manual for California's Local Road Owners
Version 1.5
April 2020

CM ID	Countermeasure Name	Crash Type	CRF	Funding Eligibility
S15/NS16	Reduced Left-Turn Conflict Intersections	All	50%	90%
S19PB	Pedestrian Scramble	Ped & Bike	40%	100%
NS22PB/R37PB	Install Rectangular Rapid Flashing Beacon (RRFB)	Ped & Bike	35%	100%
R16	Curve Shoulder widening (Outside Only)	All	45%	90%
R33PB	Install Separated Bike Lanes	Ped & Bike	45%	90%
NS12/R21	Improve pavement friction (High Friction Surface Treatments)	All	55%	100%

Created by Caltrans in conjunction with FHWA and SafeTREC for the express benefit of California Local Agencies.



OTHER CONTEXTUAL ISSUES

- Addressing social justice issues without robust data
- Risk and liability concerns
- Familiar practices in a community

People Killed While Walking



Governing, August 2014

© 2015 Safe Routes to School National Partnership

The Local Agency Perspective

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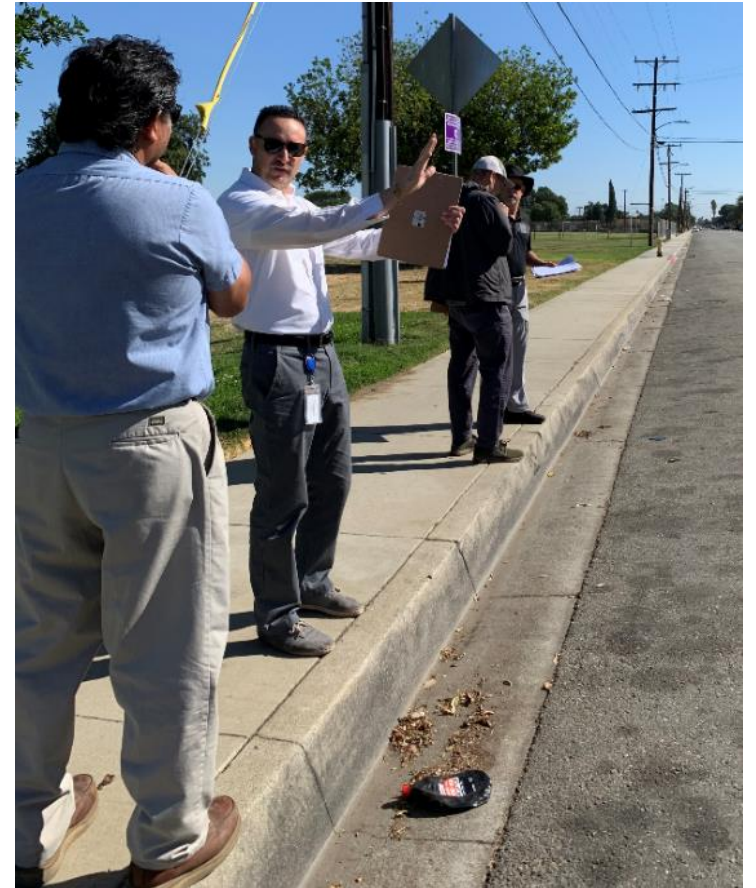
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BUY-IN FROM STAKEHOLDERS AND COLLEAGUES

- Included Montclair Police Department rep from start of the project and in all progress meetings
- Public Works staff helped lead walk audits



DEMONSTRATE PROACTIVE SAFETY TO LEADERSHIP

- Early buy-in from Council and comfort with recommendations
- Regularly provided updates to Public Works Commission and City Council
- Plan addressed specific locations submitted for review by Councilmembers and their constituents



FEHR & PEERS



April 6, 2020 | Montclair City Council
Emily Finkel | Fehr & Peers



ESTABLISHING PRIORITIES FOR CONSTRAINED FUNDING

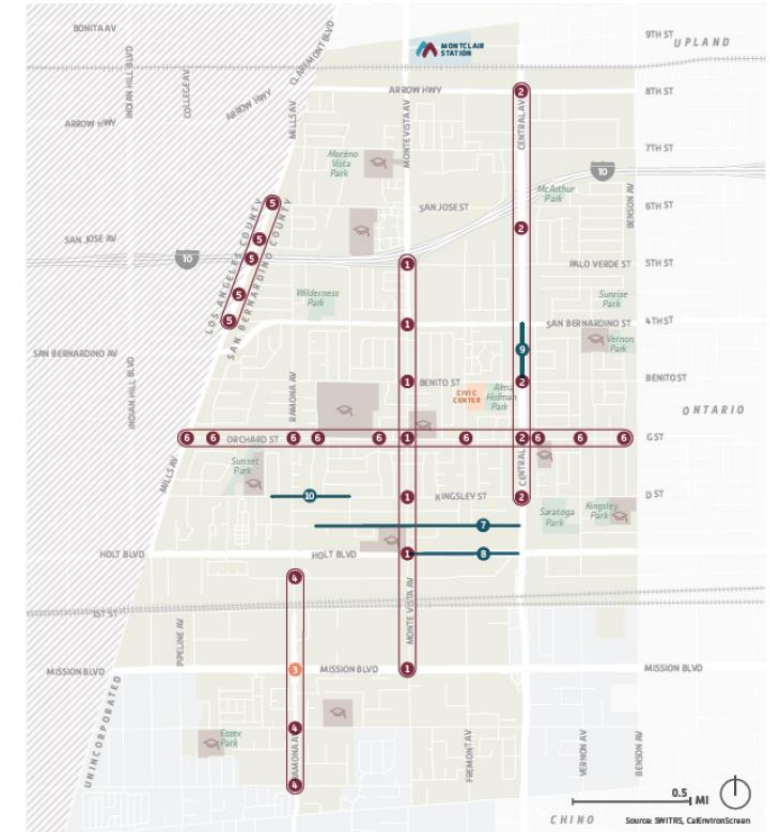
- Hot spots
- Collision profiles

Profile 5

Midblock Collisions on Roads with 4+ Lanes and 40+ mph Speed Limit

Profile 1

Vehicle and Bicycle Broadside Collisions at Signals with Permissive Lefts



PROVIDING DATA-DRIVEN SUPPORT FOR PROJECT IDEAS

SAMPLE LOCATION: RAMONA AVE & HOWARD ST



CORRIDOR COLLISION CHARACTERISTICS

Collision Type

Profile 2

8 Collisions

Behavioral Factors

- Drivers and bicyclists
- Broadside collision type

Contextual Factors

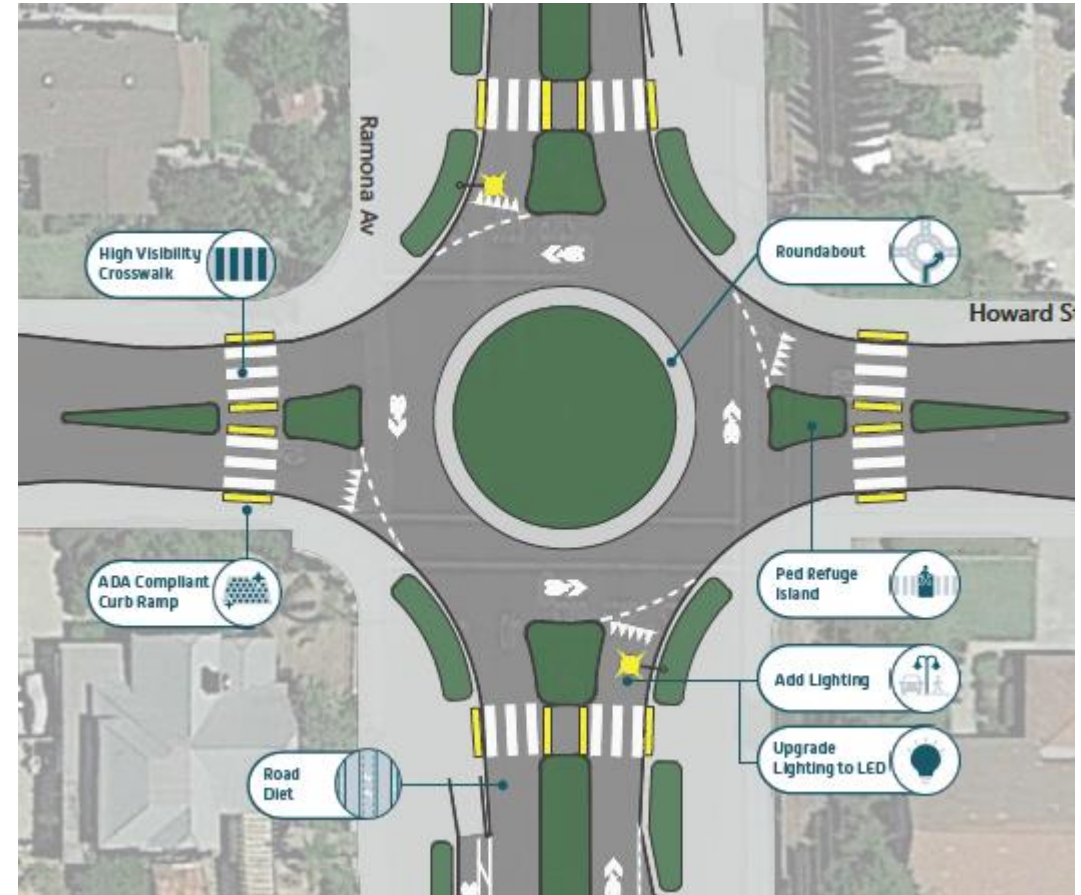
- Stop-Controlled intersection
- 2+ lanes on at least one approach

22 TOTAL COLLISIONS

1 KSI COLLISIONS

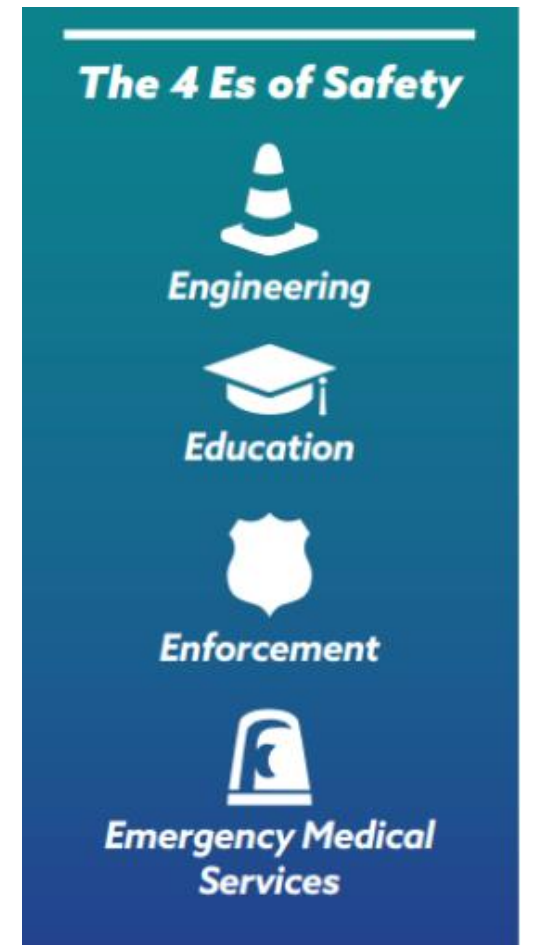
3 PEDESTRIAN COLLISIONS

2 BICYCLE COLLISIONS



HOW TO BROADEN PRIOR SAFETY EFFORTS FOR LRSP

- Set safety vision and goals
- Incorporate all 4 Es of safety – a full “Safe System”
- Broaden set of stakeholders and outreach
- Plan for implementation, evaluation and the next update to your safety plan



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RESOURCES

- **FHWA Safe System:** https://safety.fhwa.dot.gov/zerodeaths/zero_deaths_vision.cfm
- **FHWA LRSPs:** <https://safety.fhwa.dot.gov/LRSPDIY>
- **Caltrans LRSPs:** <https://dot.ca.gov/programs/local-assistance/fed-and-state-programs/highway-safety-improvement-program/local-roadway-safety-plans>

A blurred photograph of a crowd of people crossing a street with white crosswalk stripes, overlaid with a dark teal gradient.

Thank you!
Questions?

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