Transportation and Sustainability
California’s Challenge (million metric tons of CO$_2$e)

- 11.8 tons/capita
- 1.4 tons/capita

Year:
- 2000
- 2010
- 2020
- 2030
- 2040
- 2050
2015 BAY AREA GHG INVENTORY

- Transportation: 40%
- Industrial/Commercial: 36%
- Agriculture: 1%
- Electricity: 14%
- Residential Fuel Usage: 8%
- Off Road Equipment: 1%
- 24% Personal vehicles
- Transportation: 40%

- Indicators: 36% Industrial/Commercial, 8% Residential Fuel Usage, 14% Electricity, 1% Agriculture, 1% Off Road Equipment, 24% Personal vehicles.
SONOMA COUNTY GHG EMISSIONS REPORT

- Transportation: 65%
- Industrial and Commercial: 15%
- Agriculture: 1%
- Residential: 10%
- Waste: 2%
- Residential Energy: 7%
- Personal vehicles: 39%
How do we get from here?

To here?
To Do List

1. Start with yourself
2. Engage your community
3. Dream Big
Mode Shift
How much CO₂ can you save by walking or riding your bike to school one day a week?

- One Student: 100 lbs
- The students in one class: 3,000 lbs (1.5 tons)
- The students in one high school: 60 tons
- All the high school students in Sonoma County: 1,078.5 tons
- All the students in Sonoma County: 3,532 tons
- All the students in California: 311,834 tons
- All the students in the USA: 2,743,800 tons

The Power of Collective Action
Climate is not the only reason to ride a bike.
Economic Benefits
Personal health

- Chance of being overweight or obese? 1 in 3
- Chance of having asthma in our region? 1 in 7
- Lifetime chance of dying of heart disease, the leading cause of death in the US? 1 in 5
- Chance of being killed in a pedestrian accident next year 1 in 92,000
Traffic Congestion
Safety

Car crashes are the leading cause of death for teens

Motor vehicle accidents accounted for 2,747 teen deaths in 2010

In that same year pedestrian injuries accounted for 295...

Bicyclist injuries only 63

Take the Safe Route - Ride your bike

https://www.safekids.org/research-report/research-report-teens-cars
Avoid Urban Sprawl

Sprawled City vs. Compact, Connected City
Slow Down Traffic

If you hit someone at...

20 MPH
9 out of 10 pedestrians survive.

30 MPH
5 out of 10 pedestrians survive.

40 MPH
only 1 out of 10 pedestrians survives.
Complete Streets

Before

Same rights Same responsibilities

After
Dedicate Space to Pedestrians
Provide a Safe Connected Network for Cyclists
Safe Access to High Quality Public Transit

Bus stop in Roseland in a drainage ditch.  SMART in Cotati
Use Data to Detect Problem Areas (and fix them)
Get Engaged

What are you going to do differently when you leave this room today?
Keep in touch

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