

The Bay Area & Global Climate: Changes, Challenges & Choices

**Foothill – De Anza Community College District
District/Senates Opening Day 2008**

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ABAG/BAAQMD/BCDC/MTC
Joint Policy Committee



Climate and the Bay Area

1. **Changes:** How we might be affected
2. **Challenges:** How we contribute to the problem
3. **Choices:** What we can do about it

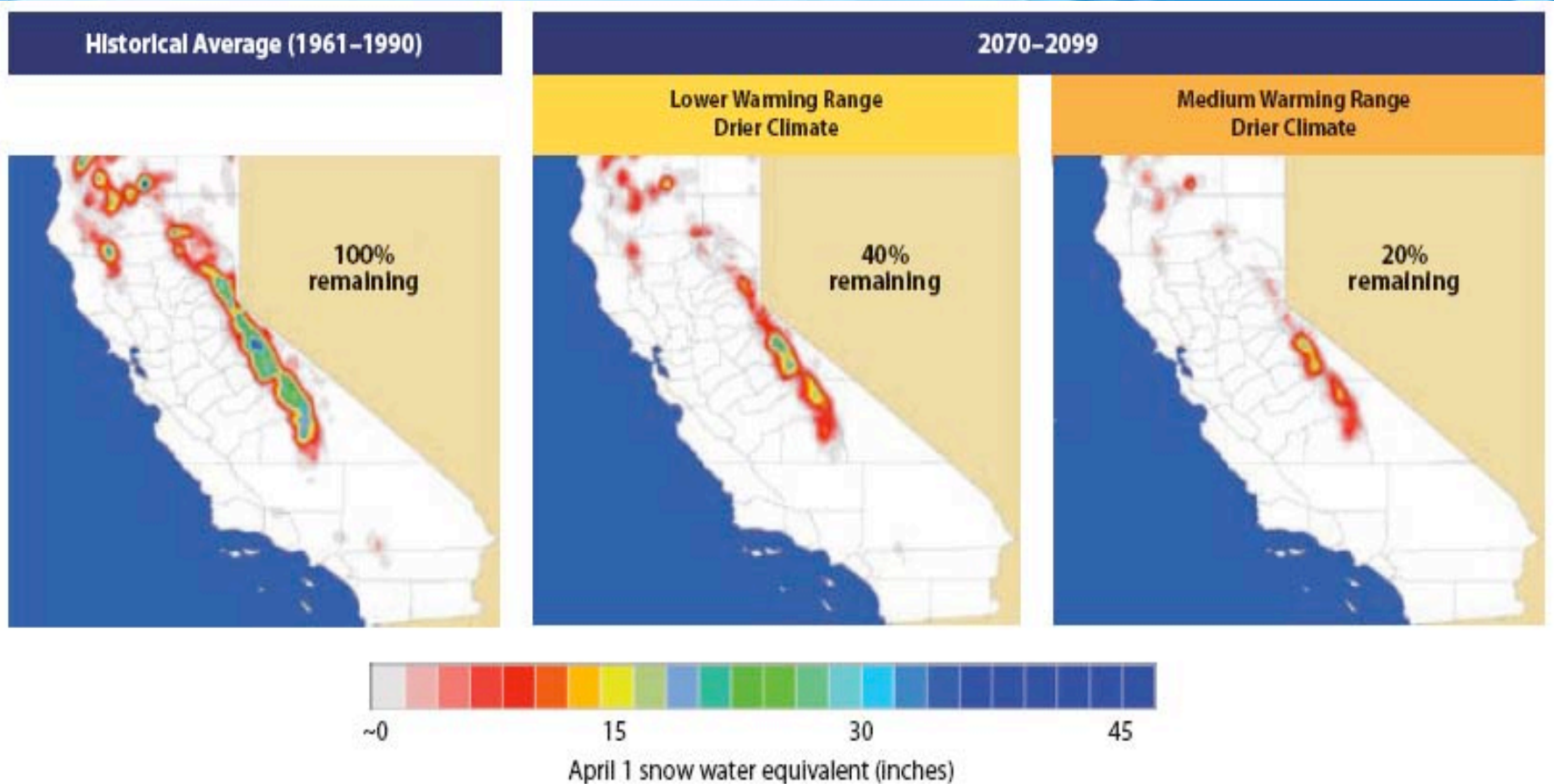
Changes:

By the End of the Century...or Earlier

Emission Scenario	Lower 2050 Target (550 ppm)	Medium-High (830 ppm)	Higher <i>Business-as-Usual</i> (970 ppm)
Temperature rise	3.0-5.4°	5.5-7.9°	8.0-10.4°
Snow pack loss	30-60%	70-80%	90%
Sea level rise	6-14"	14-22"	22-30"
Heatwave days	1-2X	2-2.5X	3-4X
Increase in electricity demand	3-6%	11%	20%
Increase in large fire risk	10-35%	55%	Not Available

Source: California Climate Change Center

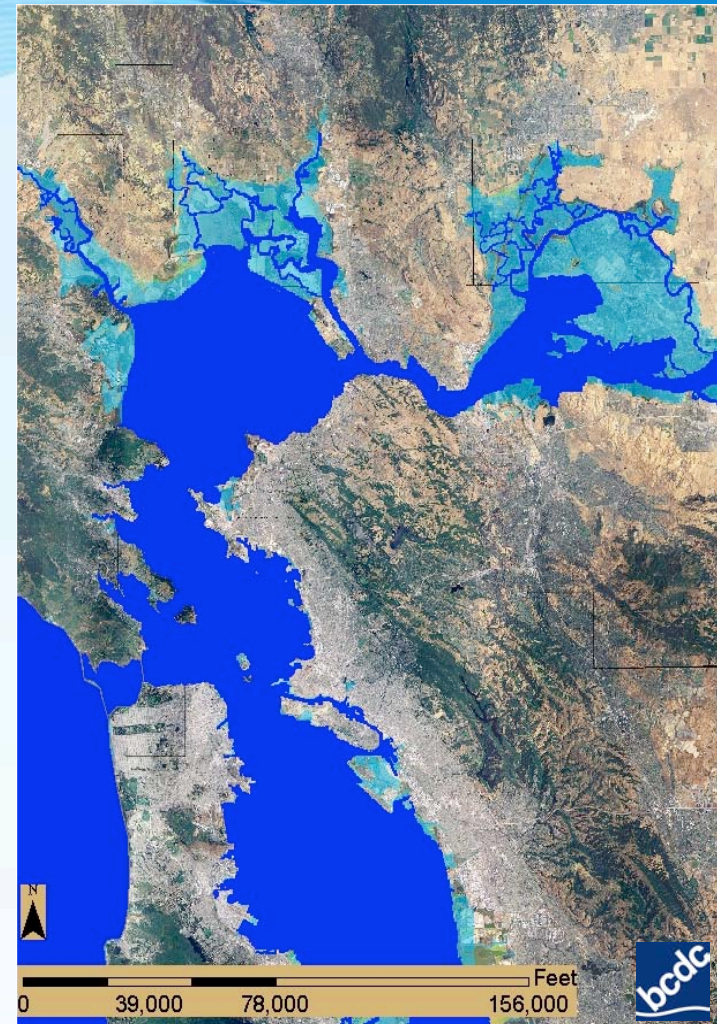
Changes: Decreasing Snowpack



Source: California Climate Change Center

Changes:

Sea-level Rise and the Bay



Source: BCDC

Changes:

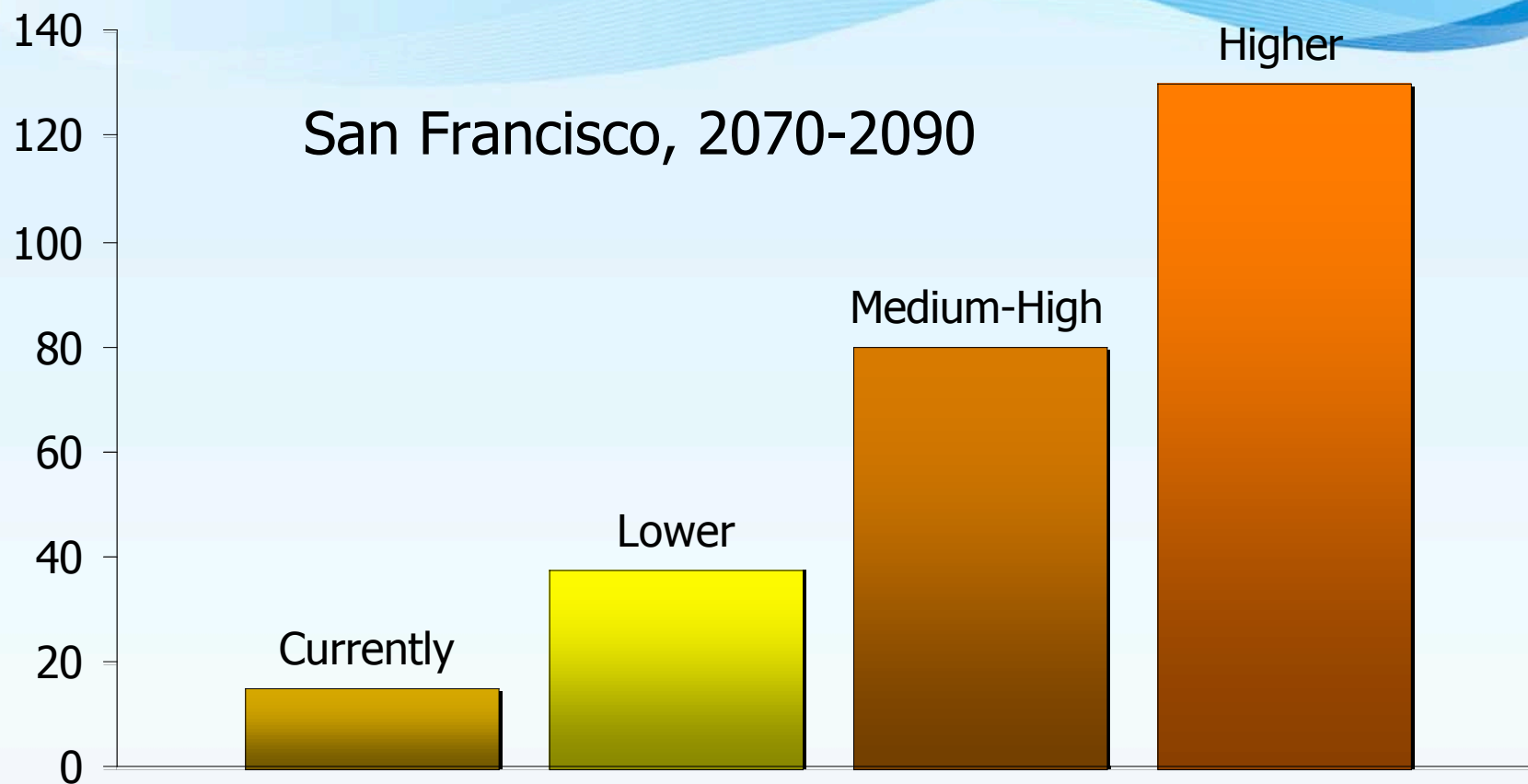
Sea-level Rise and the Bay



Source: BCDC

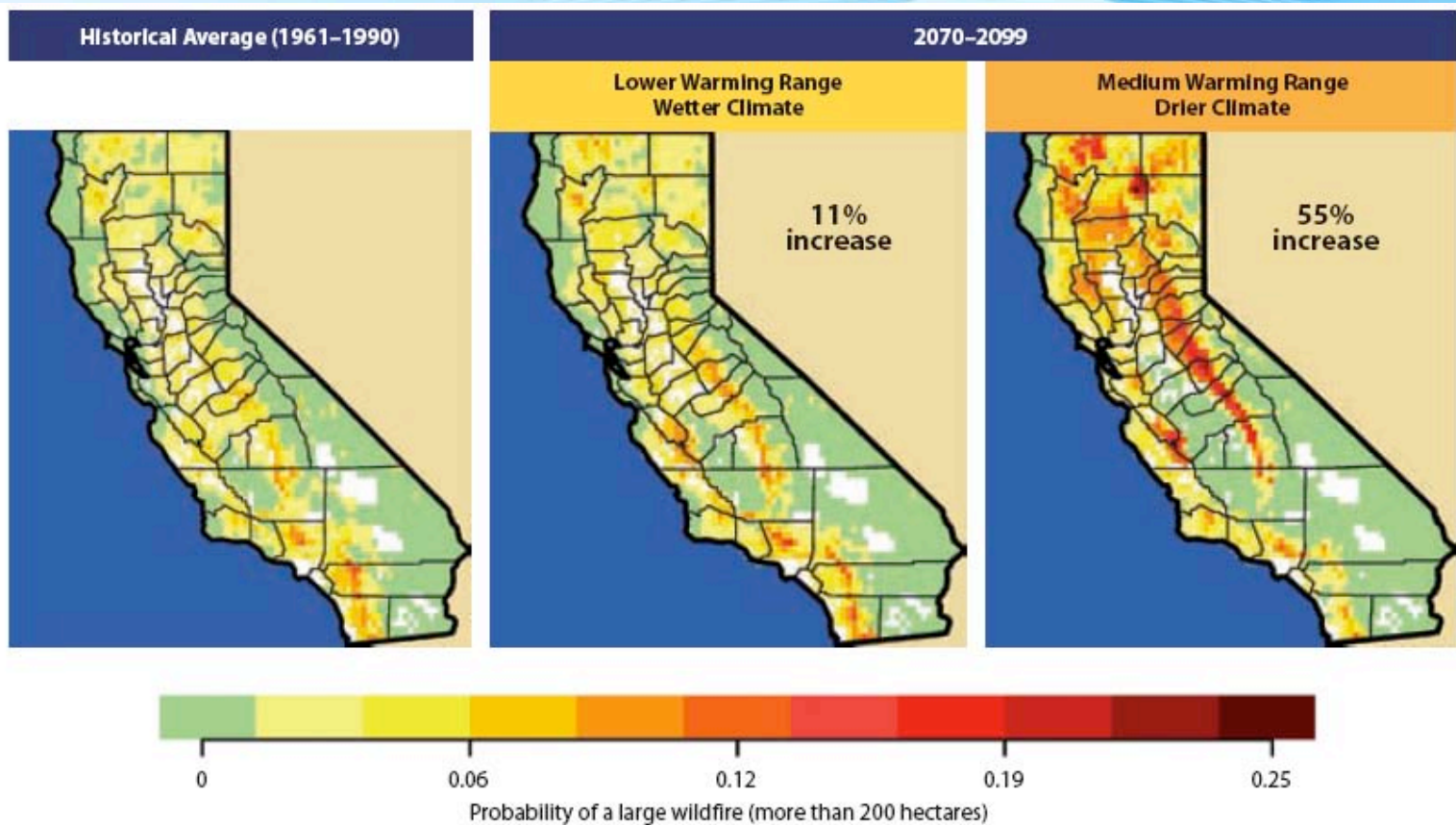
Changes:

Extreme Heat Days per Year



Source: BAAQMD

Changes: Wild Fires

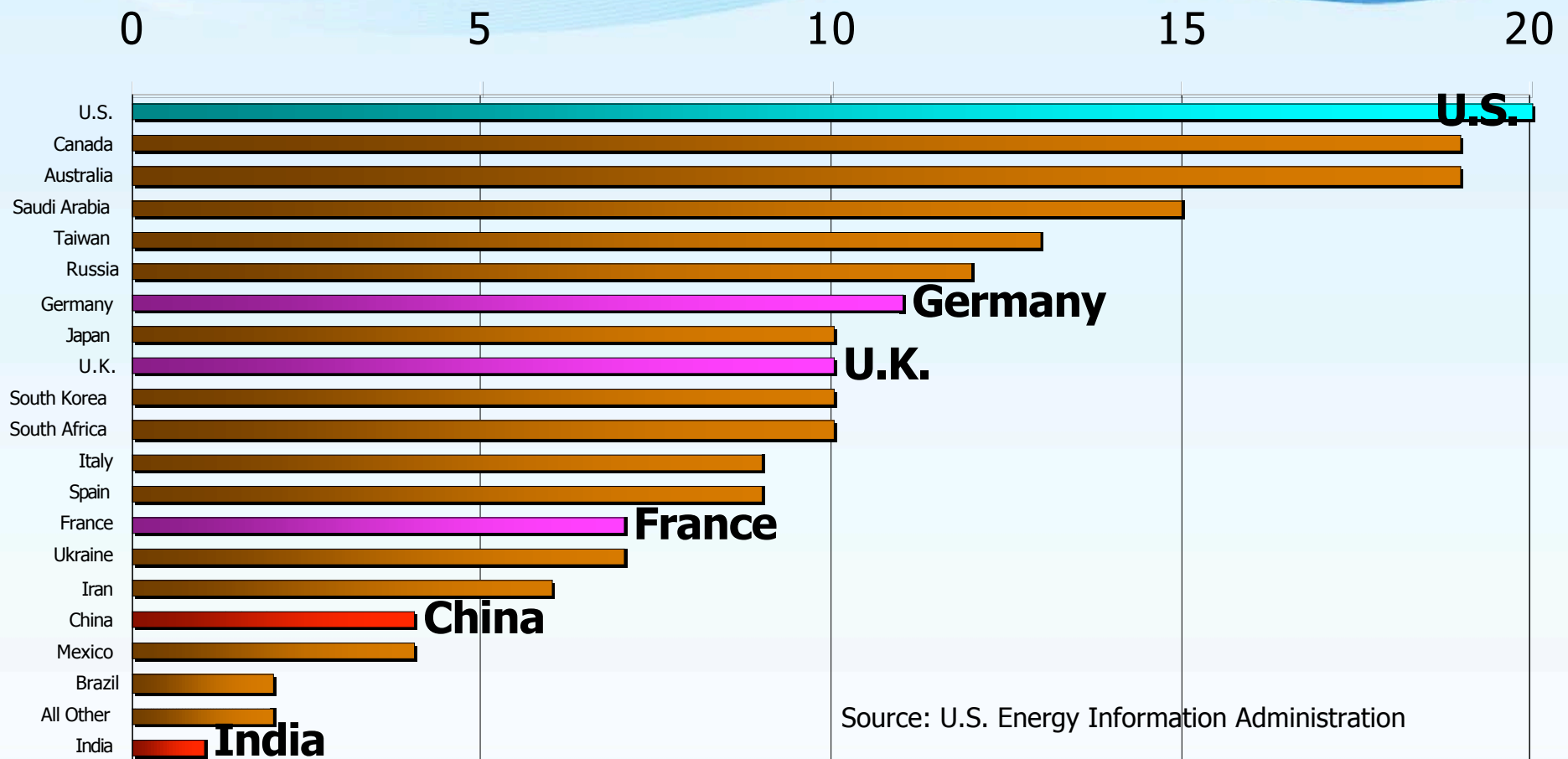


Source: CA Climate Action Team

Challenges:

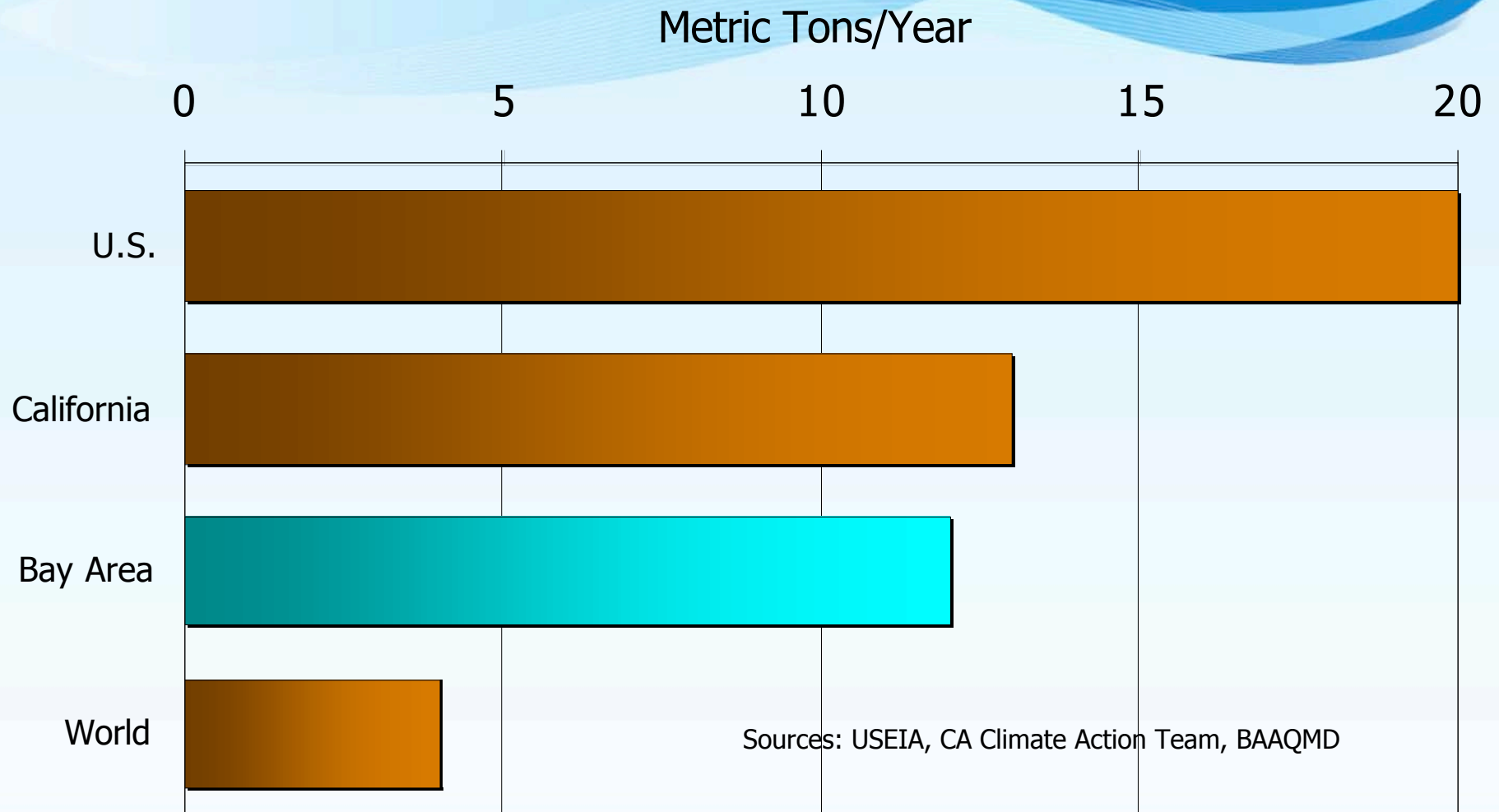
CO₂ Emissions per Capita

Metric Tons/Year

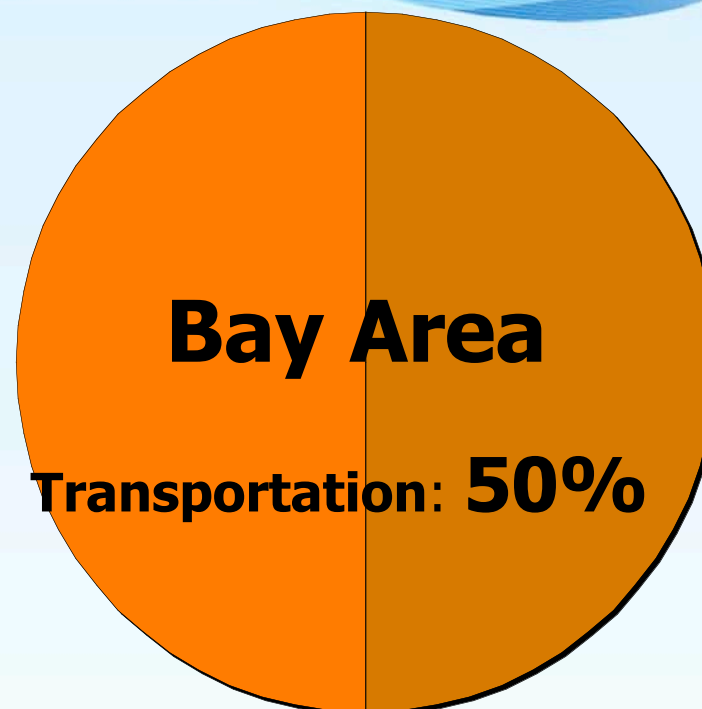
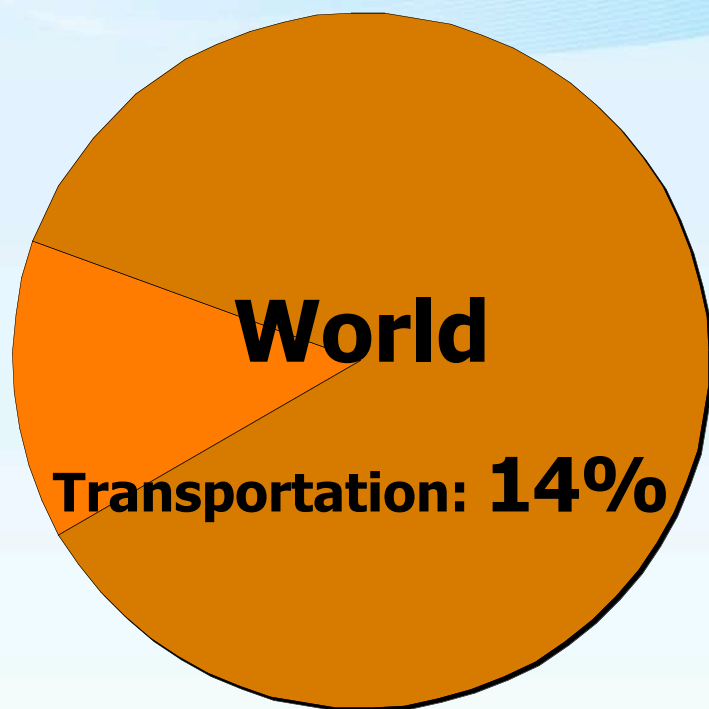


Challenges:

CO₂ Emissions per Capita



Challenges: GHGs Compared

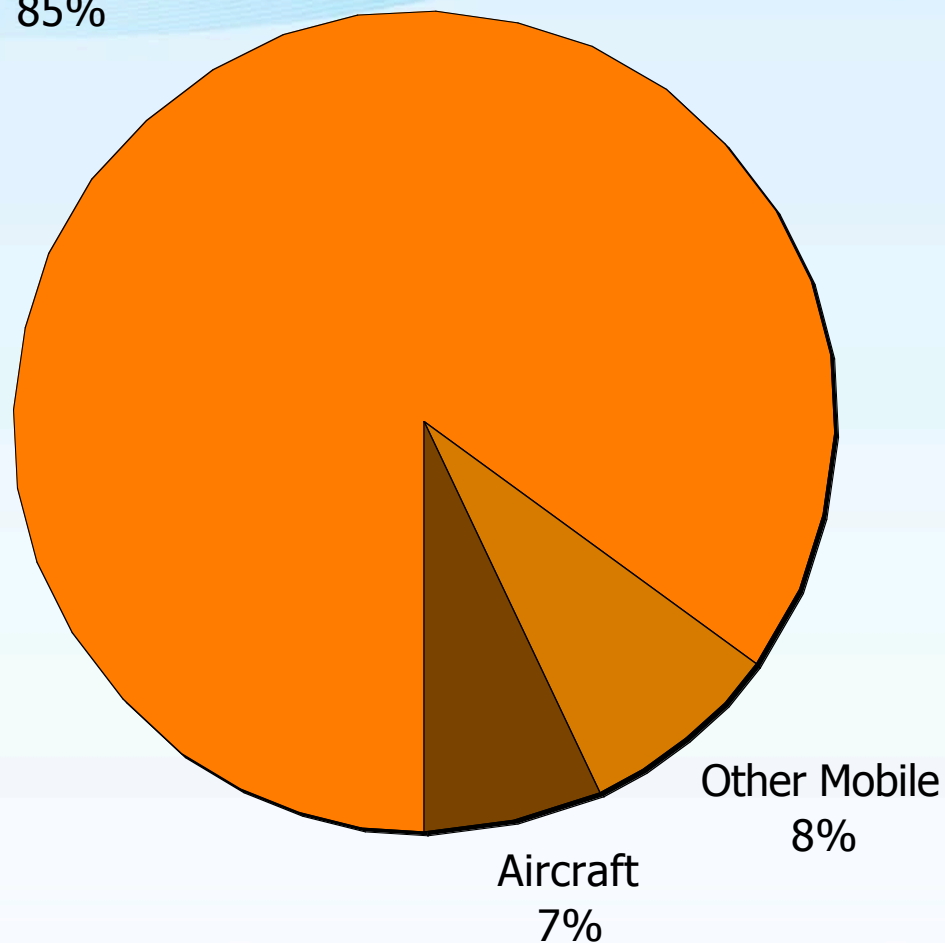


Sources: USEIA, BAAQMD

Challenges:

Bay Area Transportation GHGs

On Road Vehicles
85%



Source: BAAQMD

Choices:

Individual Agency Climate Initiatives



ABAG

- Smart Growth/FOCUS
- Energy Watch
- Green Business



BAAQMD

- Climate Summit
- Regional GHG Inventory
- Climate Grants
- Outreach
- Integration



BCDC

- Sea-level Rise Study
- Adaptation Strategy



MTC

- Smart Growth
 - TLC/HIP
 - TOD/FOCUS
- Transit Expansion
- Fix-It-First Emphasis

Choices:

Joint Agencies Climate Program

- Developed over 6 months
- 3 JPC meetings
- 2 public workshops
- Emphasizes **joint regional** actions
 - Synergies
 - Economies of Scale
- Not a fixed plan
- A structure for
 - Moving forward
 - Working together
 - Learning
 - Communicating
 - Improving
- Approved by JPC in July, 2007

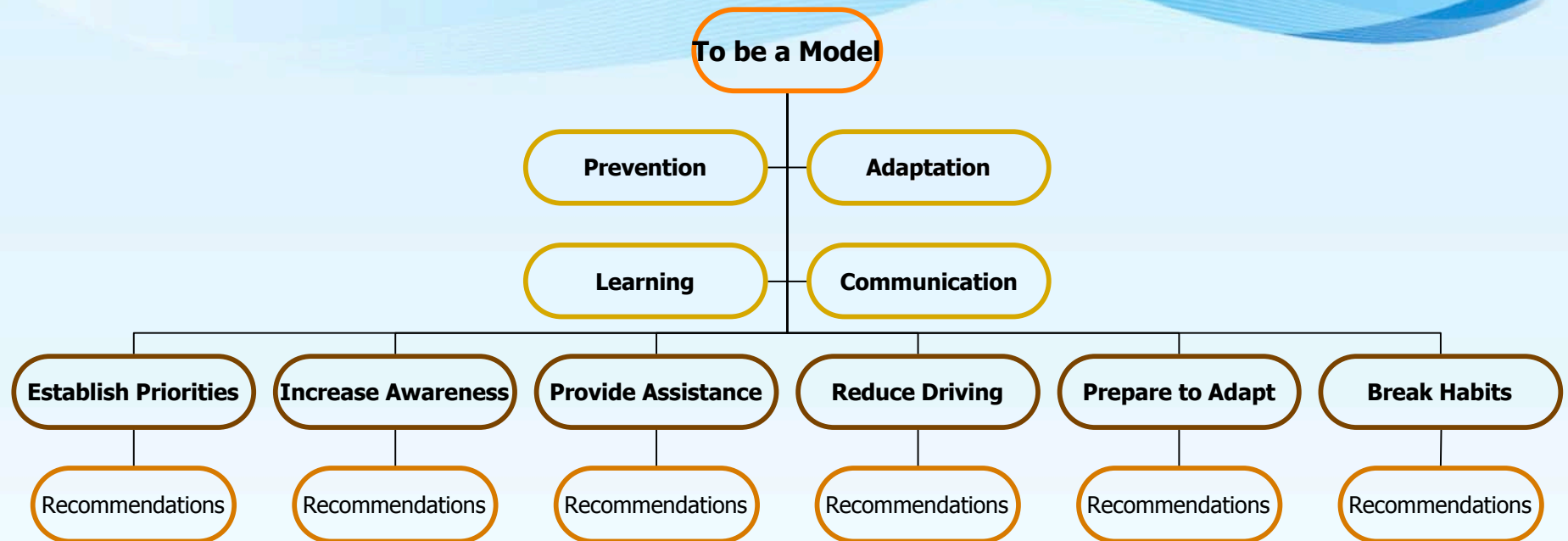
Choices:

Program Structure

- **One Key Goal**
- **Four Supporting Goals**
- **Six Strategy Elements**
- **Twenty action recommendations**



Choices: Program Structure



Choices:

Key Goal

**To be a model for California,
the nation and the world**



Choices:

Supporting Goals

- **Prevention**—Meet and surpass state targets
- **Adaptation**—Maintain safety and sustainability
- **Learning**—Measure and evaluate
- **Communication**—Document and publicize

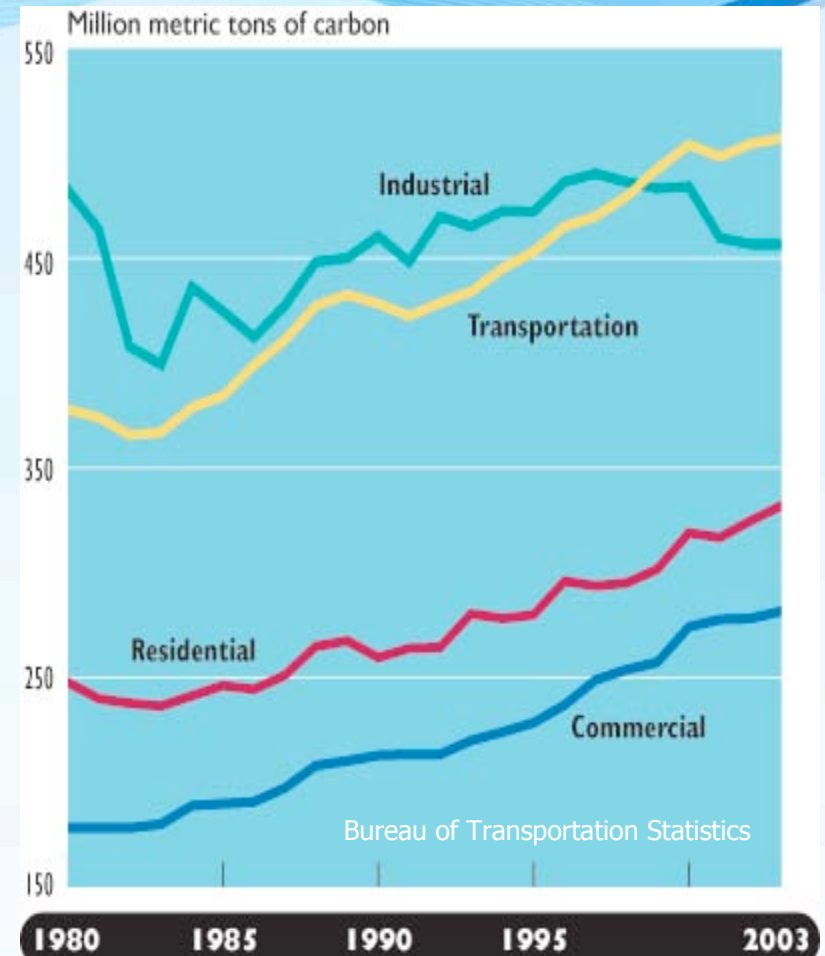
Choices:

Strategy Elements

1. Establish priorities
2. Increase public awareness and motivate action
3. Provide assistance
4. Reduce driving/promote alternatives
5. Prepare to adapt
6. Break old habits

Choices: Strategy Elements

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Choices: Strategy Elements

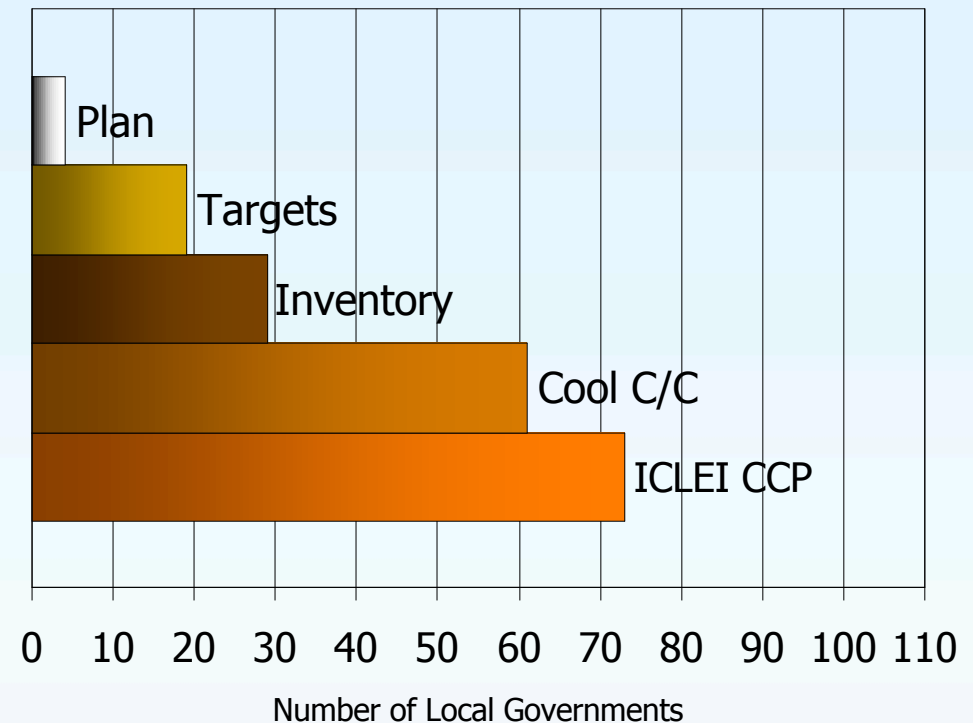
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Choices: Strategy Elements

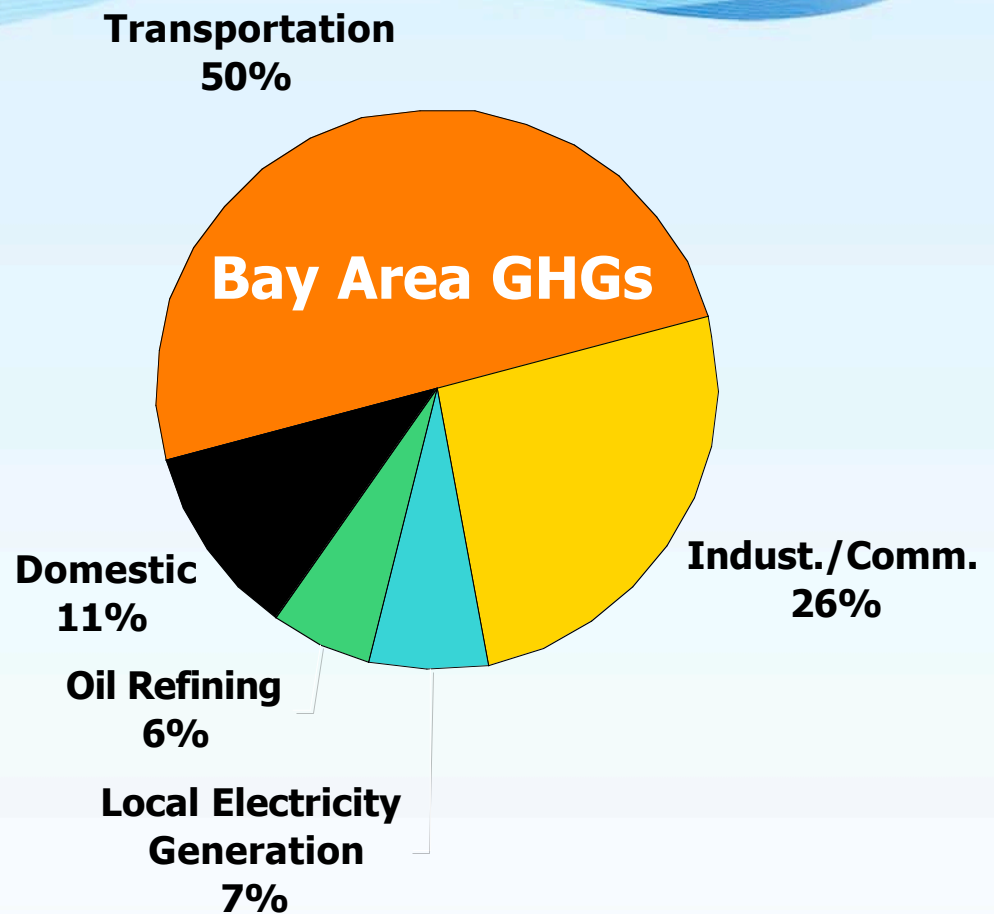
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Bay Area Local Governments
Climate Actions



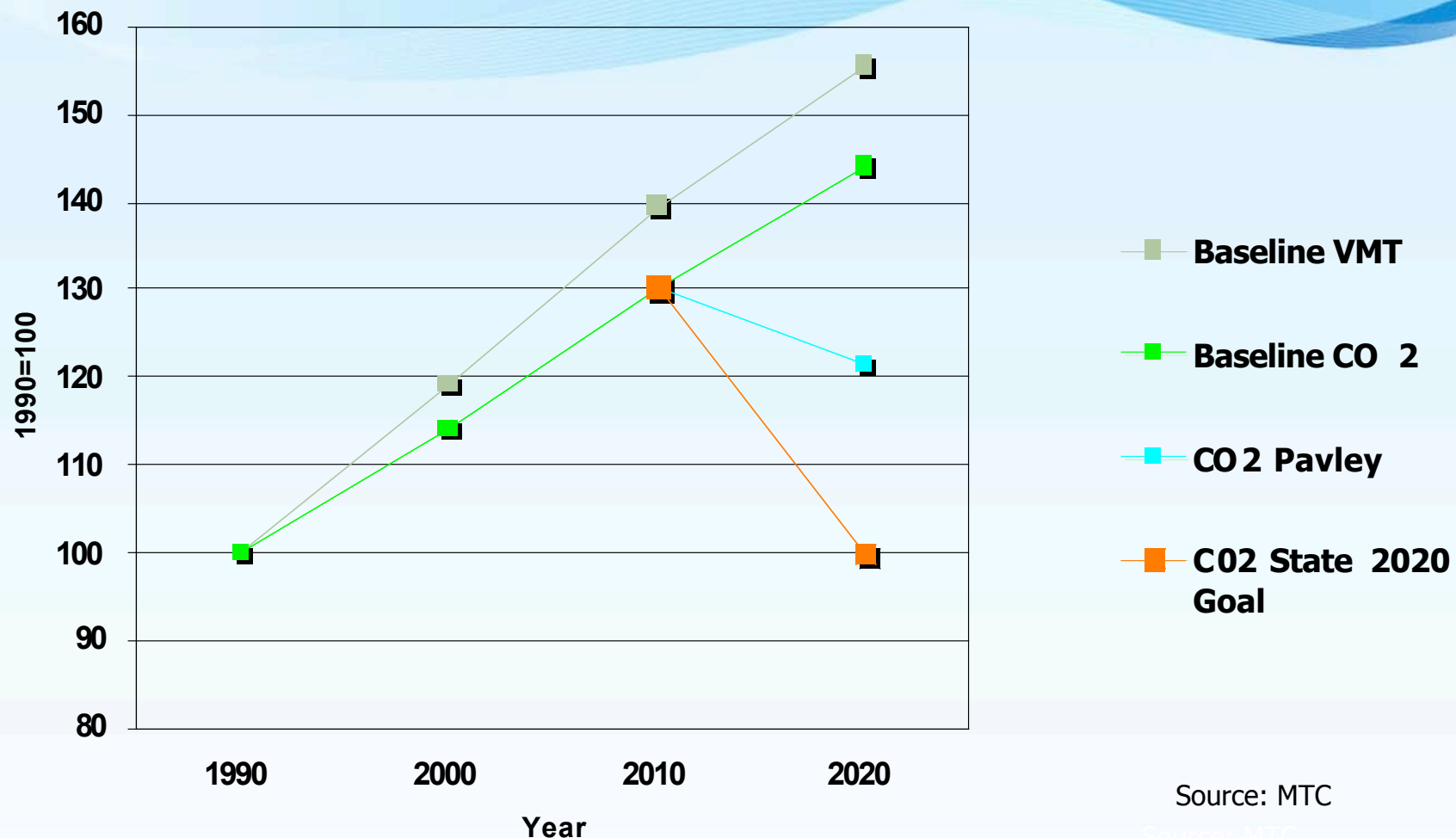
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Choices:

Reduce Driving/Promote Alternatives



Choices:

Reduce Driving/Promote Alternatives

- Pricing
- Land Use



Choices:

Reduce Driving/Promote Alternatives

- Pricing
- Land Use
- Can be effective in short term
- Need to deal with equity issues
- Need to provide choices
- Will be politically difficult



Choices:

Reduce Driving/Promote Alternatives

- Pricing
- Land Use
- Most effective in the long term
 - 1% annual growth rate
 - In any year, 99% of development is given
- Need to start now for long-term benefits
- Will also be politically difficult



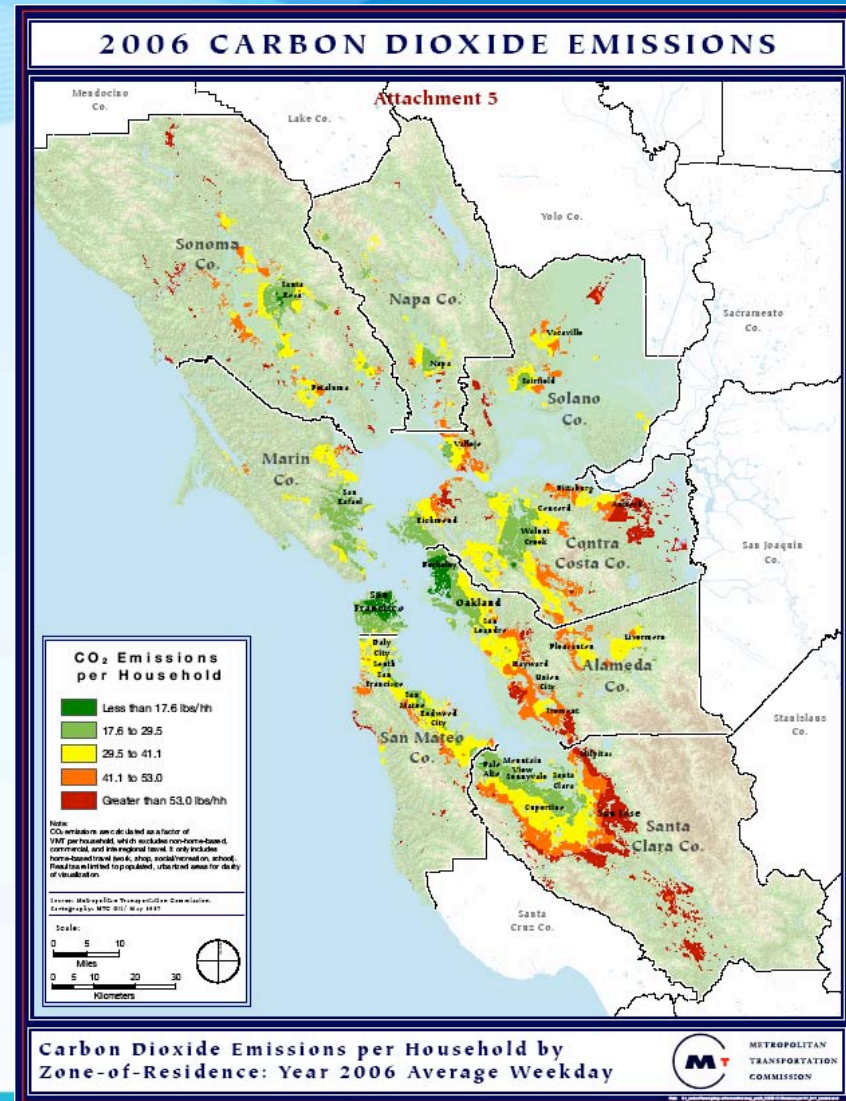
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Reduce Driving/Promote Alternatives

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- Land Use



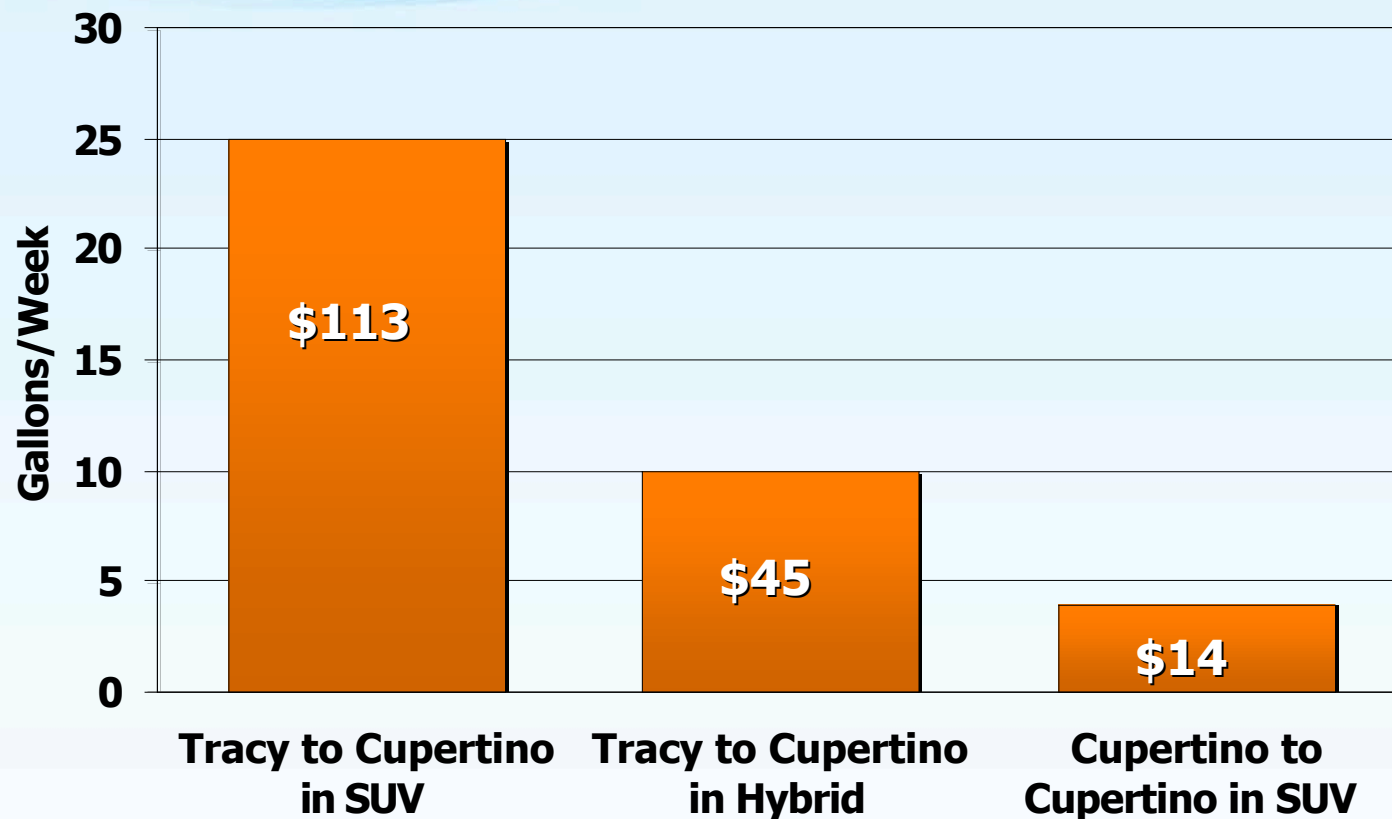
Transportation CO₂ from compact development is 20-40% less than from sprawl.



Choices:

Reduce Driving/Promote Alternatives

Commute Gas Consumption

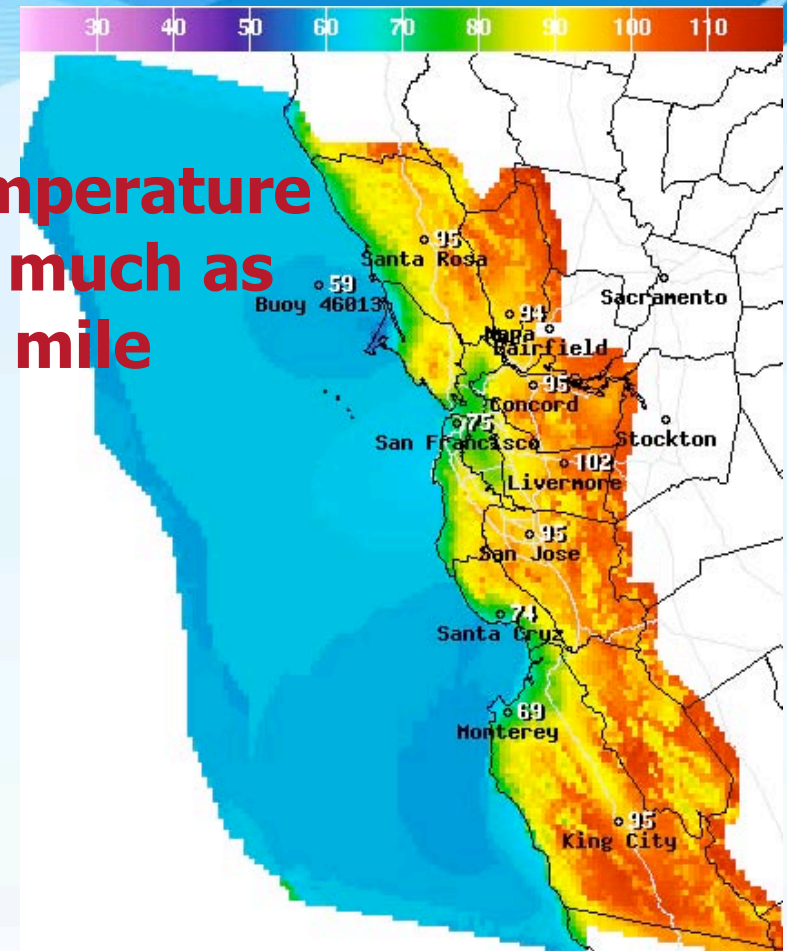


Choices:

Reduce Driving/Promote Alternatives

- Pricing
- Land Use

Bay Area Temperature Gradient: As much as a degree per mile



High Temperature(F) Ending Fri Aug 29 2008 9PM PDT
(Sat Aug 30 2008 04Z)



NWS Monterey, CA

Graphic Created Aug 29 2:11PM PDT



Choices: Strategy Elements

1. Establish priorities
2. Increase public awareness and motivate action
3. Provide assistance
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6. Break old habits




Chronicle / Liz Hafalia



Choices:

Strategy Elements

- 
- A photograph of a highway with a speed limit sign and a blurred car in the background. The sign is white with black text. The car is a dark color and is moving quickly, creating a motion blur effect. The background shows a green field and some trees.
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More Information



The Joint Policy Committee

www.abag.ca.gov/jointpolicy

More Reasons

