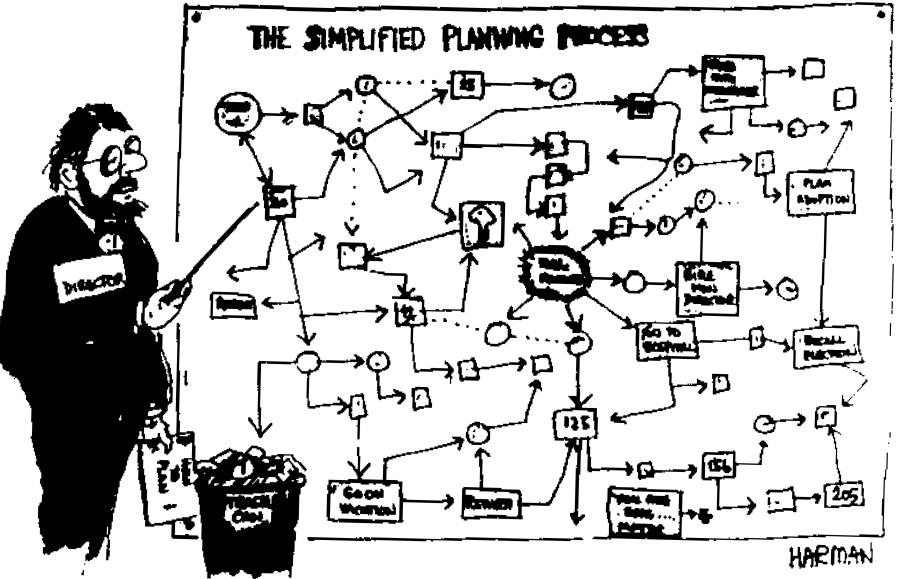
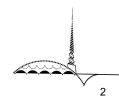
Climate Change: Planning Sustainable Communities in Marin

Presentation to the California Air Resources Board, Sacramento, CA December 14, 2007

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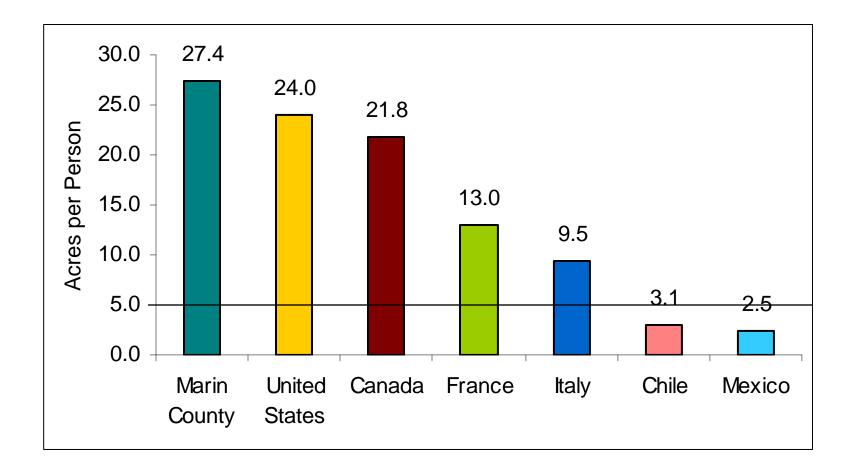


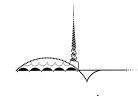
"Planning sustainable communities" is the overarching theme of the CWP update

CWP Definition of Sustainability:

- Aligning our built environment and socioeconomic activities w/ the natural systems that support life
- Adapting human activities to the constraints and opportunities of nature
- Meeting the needs of both the present and the future

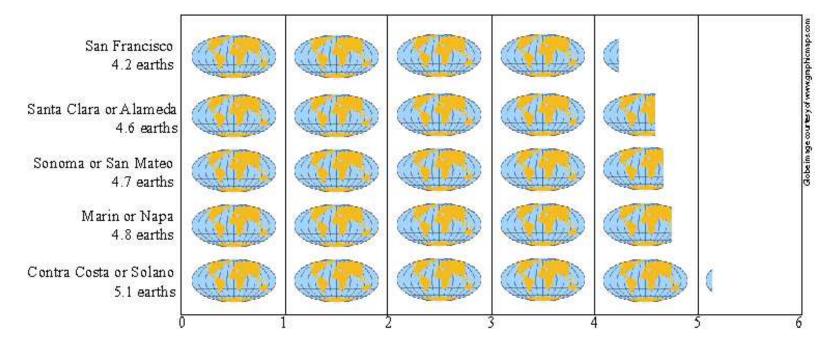
Ecological Footprint Comparison



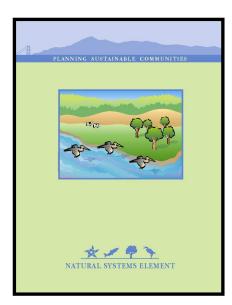


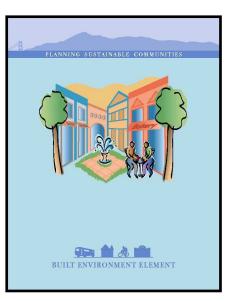
How Does Marin's Footprint Compare?

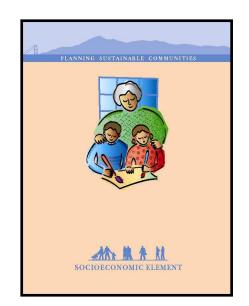
Number of earths that would be required to serve the footprint of each S.F. Bay Area County:



Marin Countywide Plan



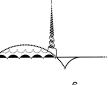




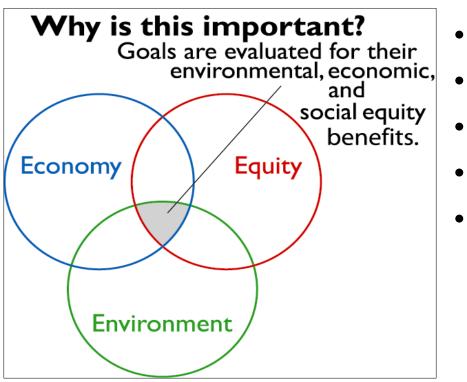
Natural Systems and Agriculture

Built Environment

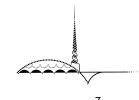
Socioeconomic



Countywide Plan

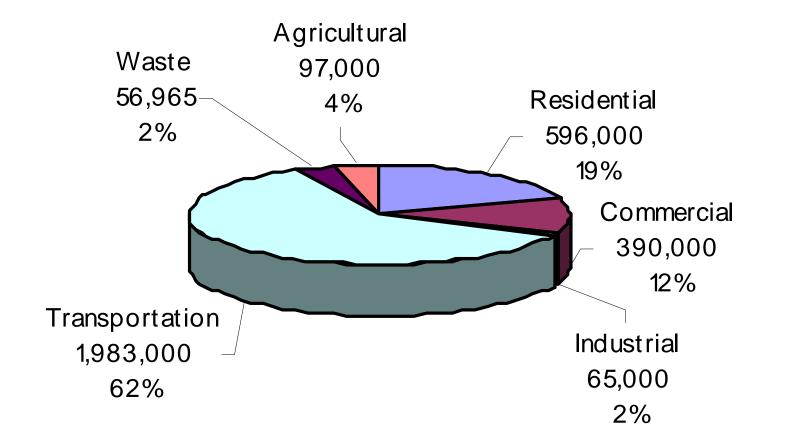


- Each element addresses:
- What are the desired outcomes?
- Why it is important?
- How will results be achieved?
- How will success be measured?



2005 Countywide GHG Emissions:

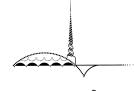
Tons CO2e & Percent by Sector



Key Climate Change Goals



- Reduce GHG emissions
- Monitor climate change
- Adapt to climate change



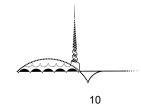
Policies for Reducing GHG Emissions



- Increase Renewable Energy
- **Conserve Electricity**
- Change Commuting & • **Driving Patterns**
- **Divert Solid Waste**
- Increase Biocapacity of **Open Space & Agriculture**

•

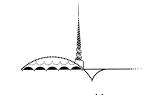
Increase Local Food & Sustainable Agriculture





Other Policies for Reducing GHG Emissions

- Evaluate Carbon Neutral Building Incentives
- Encourage Zero, Partial Zero & Low-Emission Vehicle Use
- Consider the Economic Impacts of Climate Change
- Promote Climate Change Education



Set Target to Reduce Emissions



Indicator	Benchmark	Targets
Amount of GHG	2,634,000 tons	Reduce 15-20%
Emissions	CO2 in 1990	by 2020.
Countywide		

Built Environment: Key Ideas

- Transfer development potential away from environmentally sensitive lands and focus intelligent infill closer to transit, jobs, and services
- Support vehicle trip reduction measures
- Require Green Building



Marinwood Shopping Center



After:



San Quentin Vision Plan Land Use Plan













Utilize European design approaches

Amphitheater park

Boulevard

Affordable housing

Pedestrian-only optional area

Ridge open space







Map 3-36 San Quentin Re-use Concepts

15

Transportation Programs

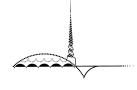




- Reduce Single Occupancy Trips
- Create Car Share Program
- Encourage Bicycling & Walking
- Ensure Safe Routes to Schools



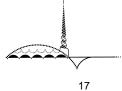
• Support Green Fuels



Socioeconomic Element



Indicator	Benchmark	Targets
Number of	0 in 2000	Increase to
certified		250 by 2010,
"green"		and 400 by
businesses		2015



Can the Plan Reduce Marin's GHG Emissions and Ecological Footprint?

Meeting just the energy and transportation targets would:

- Reduce Marin's footprint by nearly one million global acres per year, equal to a 15% reduction
- Reduce GHG Emissions by 15-20%
- Still not be equal to Italy's footprint, but would help reduce the over-consumption of Earth's biological capacity and serve as a model for other affluent areas.

Implementing programs that link people, the economy and the environment

The Community Development Agency offers a broad array of programs to help move Marin towards a more sustainable future including:

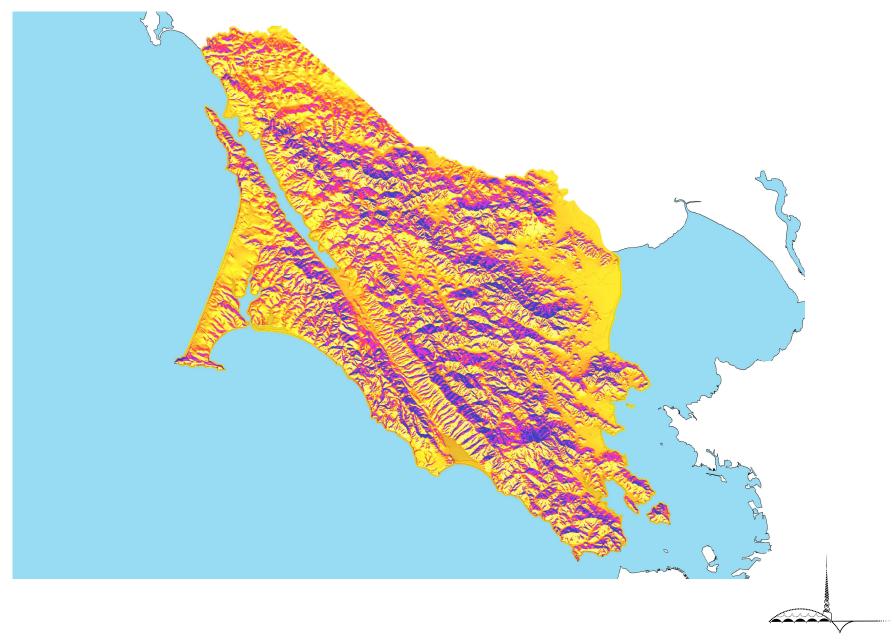
- Solar Incentives
- Climate Protection
- Energy Efficiency
- Green Business
 - Green Building
 - Waste Tire Education
- Sustainable County Operations
- Sustainability in the Countywide Plan

COMMUNITY DEVELOPMENT AGENCY ALEX HINDS, DIRECTOR

For more info. contact the Marin County Community Development Agency at one of the numbers below, or visit: www.sustainablemarin.org

Dawn Weisz Dana Armanino Alec Hoffmann Omar Peña Sustainability Team Coordinator507-2706Green Business & Energy Coordinator499-3292Green Building Program Coordinator507-2659Sustainability Aide507-2797

Solar map

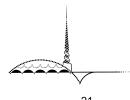


Results – Snapshot in Time





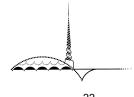
- County has awarded in \$50,000 in solar rebates
- Annual solar installations countywide grew from 8 in the year 2000 to 138 in the year 2005
- Currently there are over 800 systems countywide
- And these are reducing GHG emissions by 2,465 tons annually



Promoting Green Building

- Woodstove rebate program
- Free technical assistance on Green Building
- Residential Energy Ordinance which reduces the energy use in new large homes
- Construction & Demolition Waste Ordinance
- Green points checklist which has been integrated into our permitting process
- Education: trainings, events, and informational materials like the display pictured here





Fireside Project Requirements

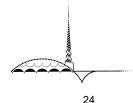
- Affordable Rents
- Solar PV Systems
- Daylighting
- Energy Efficiency
- Durable Construction Materials
- Green Materials
- Low VOC finishes
- Stormwater Protection
- Construction Waste Recycling



Results – Snapshot in Time



- Remodels exceeded State energy standards by an average of 10%
- New homes exceeded standards by 20%
- 75,000 tons of diverted waste reduced GHG emissions by **150,000** tons

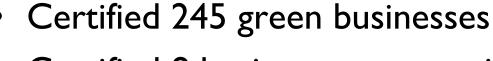


Promoting Green Businesses

Since April 2002:



PARTNER











Promoting Climate Protection

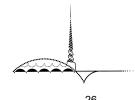
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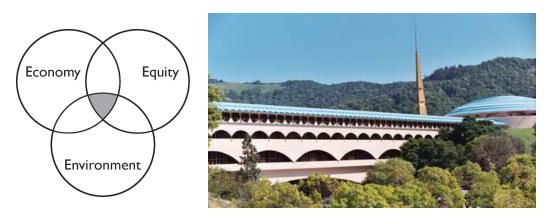


Joined ICLEI's five step program in 2002:

- I. Assessed Marin's greenhouse gas (GHG) emissions
- 2. Set target to reduce emissions
- 3. Developed implementation plan to meet the target
 - 4. Implement GHG reduction plan
 - 5. Reassess GHG emissions



--- County Operations Report---Measuring Progress Toward Sustainability



- Which highlights successful initiatives from all County departments and divisions
- Identifies potential areas for further progress, and soon will include
- Indicators & targets to track progress

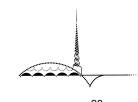
Other programs

Marin Public Facilities

Energy Management Team



- The MarinEMT program helps local govts and schools with energy audits and upgrades - and soon into the residential sector.
- The Urban Environmental Accords were adopted by Board of Supervisors
- Community Choice Aggregation Study



For more information contact the Marin County Community Development Agency. www.marinsustainability.org

Alex Hinds, Director (415) 499-6278 Dawn Weisz, Senior Planner (415) 507-2706

