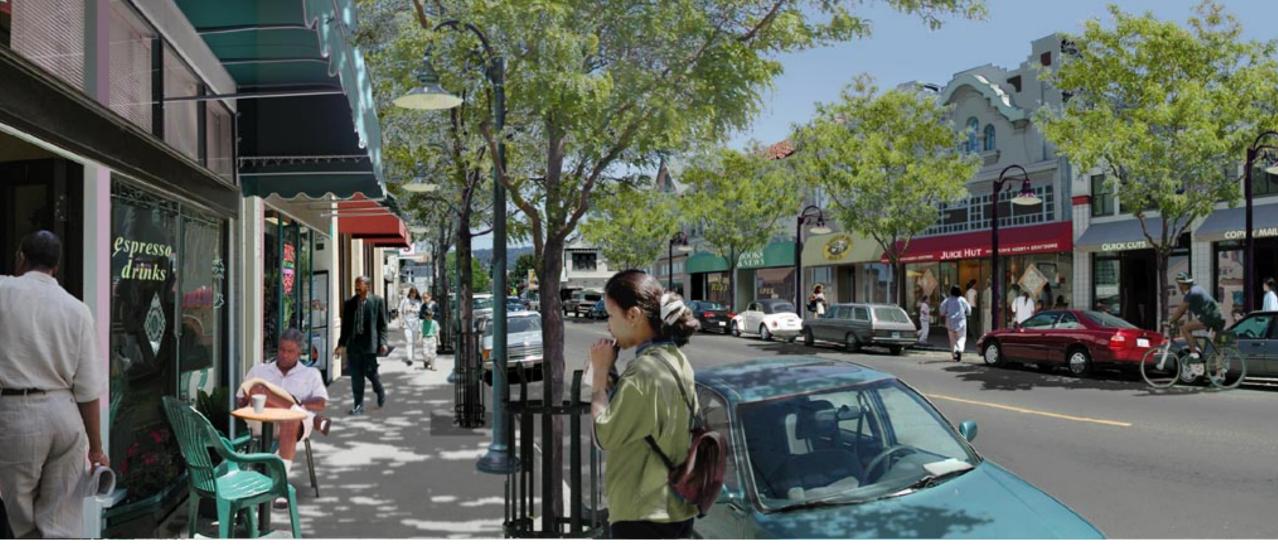


Blue Zones Project Health and Transportation

Transportation Agency for Monterey County, February 2021

Dan Burden, Director of Innovation and Inspiration, Blue Zones



Photomorphs: Steve Price, Urban Advantage

The last generation overbuilt for the car and underbuilt or people and place



New Monies, New Pathways At the State and Federal level new monies are being designated to support and shape cities. Those jurisdictions most nimble will receive the greatest share. Additionally, there are Measure X dollars to support equitable active transportation efforts in Monterey County. How can Blue Zones best position the county to move forward with these existing and future resources?

Agenda

Introduction

Why Walkability and Active Transportation?

Streets for People, Not Just Cars

Healthy People, Healthy Communities

Economics

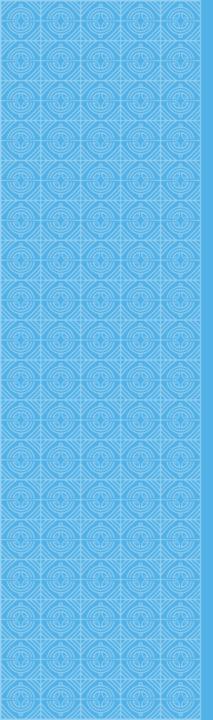
Land Use and Transportation

Safety by Design

Case Studies

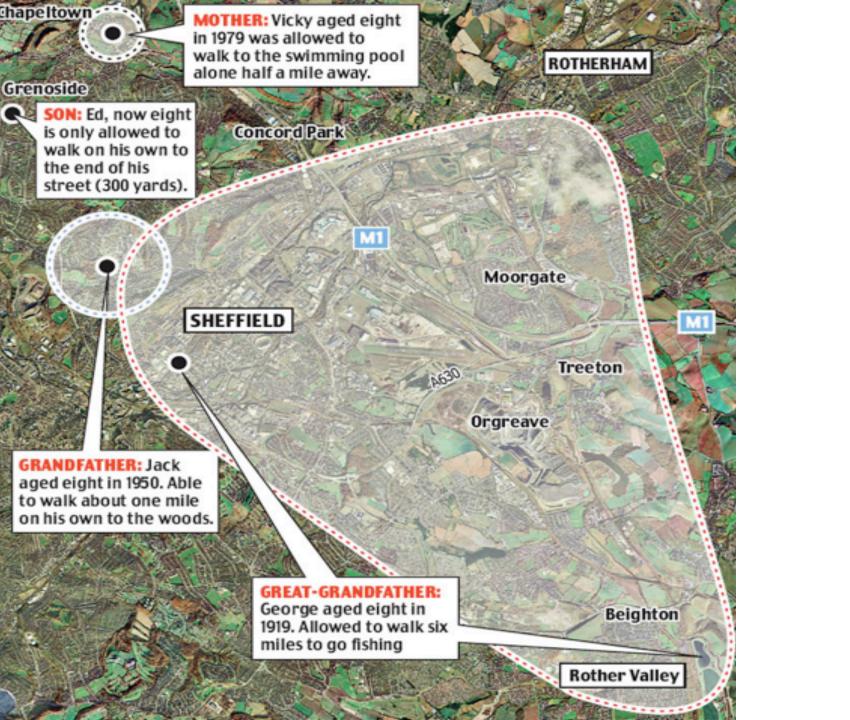
Measure X

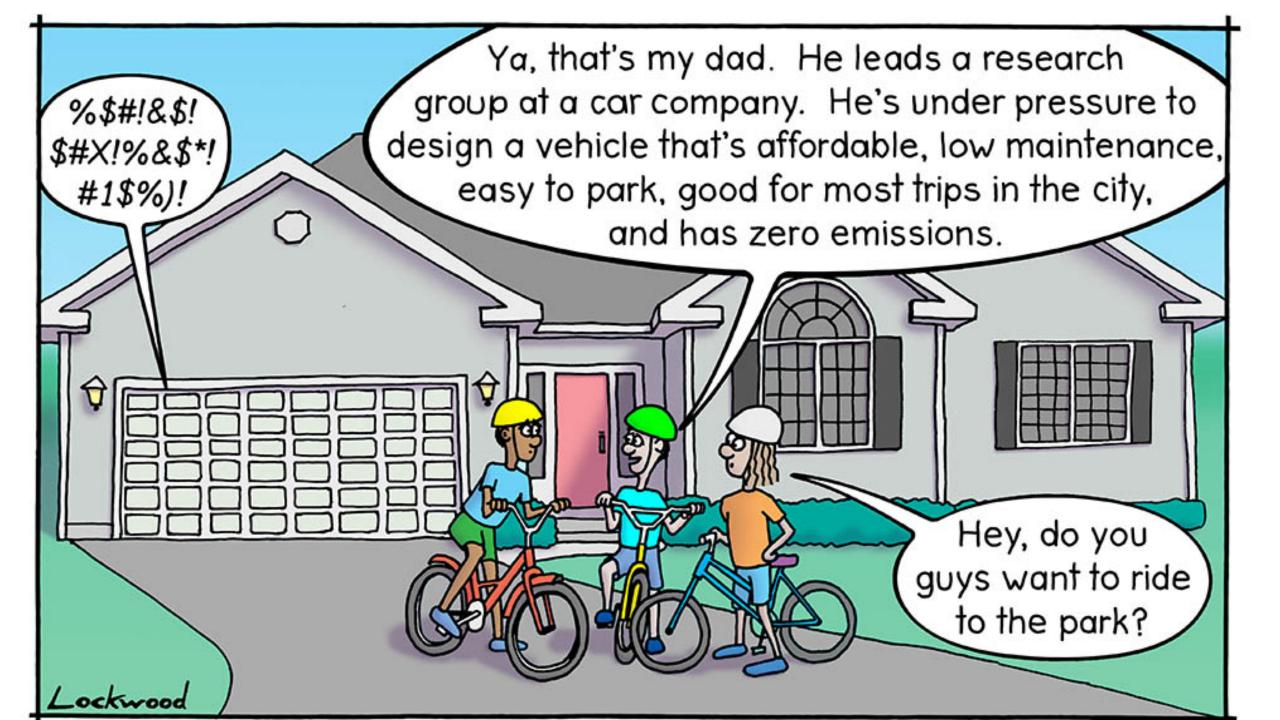




Introduction









What Does A Car-Centric Environment Look Like?

What does Monterey's current code call for: car friendly places, or places where people and place are emphasized?

Almost all town codes were modified over time to favor people arriving by car, and not by foot or bike.

Requirements for too much parking, parking lots to the front and building set-backs all may seem innocuous, but they make walking a challenge, thereby shifting trips that could be performed by foot into ones that require auto travel.

The built environment is the sum of the choices we make.







People-Centric: Farmington Avenue, West Hartford, Connecticut



The purpose of ATP is to encourage increased use of active modes of transportation by achieving the following goals:

- Increase the proportion of trips accomplished by biking and walking
- Increase safety and mobility for non-motorized users
- Advance the active transportation efforts of regional agencies to achieve Greenhouse Gas (GHG) reduction goals, pursuant to SB 375 (of 2008) and SB 341 (of 2009)

- Enhance public health
- Ensure that disadvantaged communities fully share in the benefits of the program
- Provide a broad spectrum of projects to benefit many types of active transportation users



The Benefits of Designing Streets for People

- Increases physical activity rates
- Reduces obesity
- Encourages social connectedness
- Catalyzes small business development
- Increases property values
- Improves access and safety for all
- Encourages social equity
- Advances resiliency and sustainability
- Reduces pollution and run-off
- Provides safe routes to school
- Makes the healthy choice the easy choice



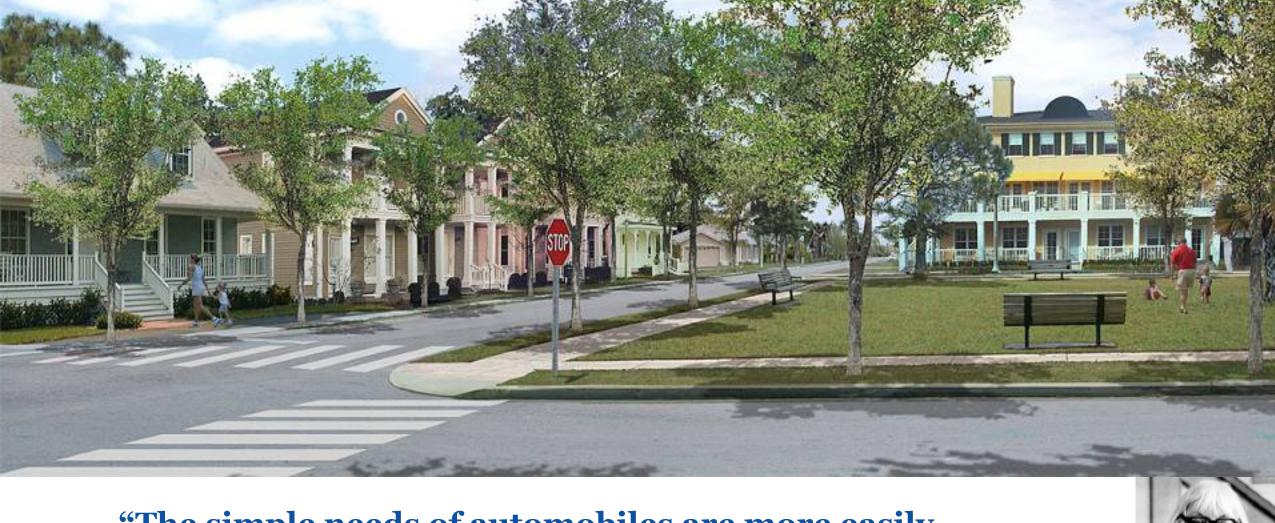
In this session we wish to:

- Provide a pathway to health and safety
- Make active transportation the easy choice
- Cover basic principles on why we must return to past town making principles
- Stop squandering the resources of future generations
- Develop a sense of urgency

Topics featured in this session:

- Active Transportation
- Compact Land Form
- Housing Diversity
- Urban Greening
- Connectivity
- Mixed Land Use
- Age-Friendly Design
- Placemaking
- Activity Centers
- Parks and Green Spaces
- Smart Growth
- Health Urban Planning





"The simple needs of automobiles are more easily understood and satisfied than the complex needs of cities."

- Jane Jacobs, Death and Life of Great American Cities, 1961



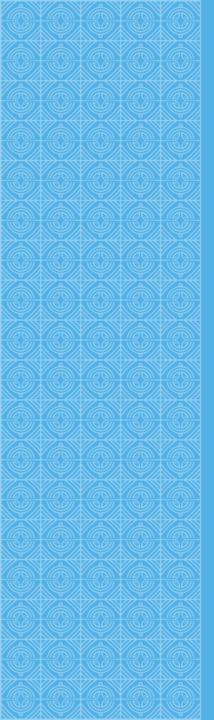
Litmus Test

Does the "change" reward the short trip and active transportation?

Change: Change in policy, street design, land use, operations, transit initiative, etc.







Healthy People, Healthy Communities



Blue Zones Longevity Hot Spots

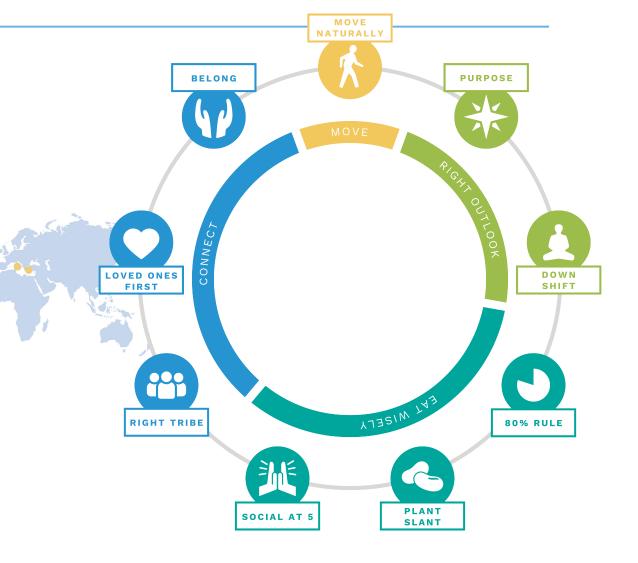


Blue Zones – Solution Model

POWER 9®

Lifestyles of all Blue Zones residents shared **nine commonalities**.

We call these characteristics the **Power 9**.







Genetics

Healthy Behaviors

Access to Care

Health Focus



Pilot Program in Albert Lea, MN

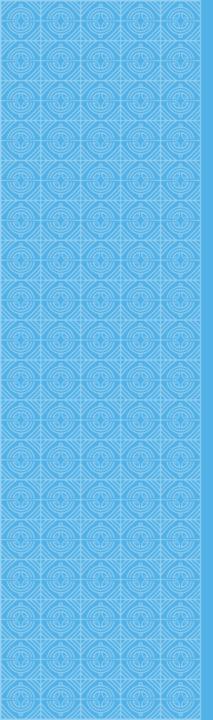
City Worker's Health Care Costs Dropped

49%









Economics

How much does your commute cost (or save) society?

Every time you travel you put money into the system, but you also cost the system. Your contribution to and burden on the system differs depending on how you travel.

For example, when you ride the bus you pay a fare – money into the system. Your burden on the system includes the cost of operating the bus, and also less obvious impacts like emissions and noise pollution.

By looking at the ratio of what we put in versus what we cost the system, we see that different ways of travelling are more subsidized than others.

The practice of taking these less tangible costs and benefits into consideration and assigning them a dollar value is known as "full-cost accounting." While there are many ways of doing this, this infographic shows one example of how those costs and charges can be calculated.







IF BIKING COSTS YOU \$1





IF BUSSING COSTS YOU \$1







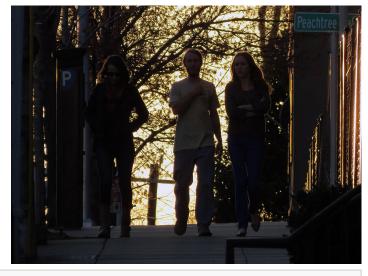






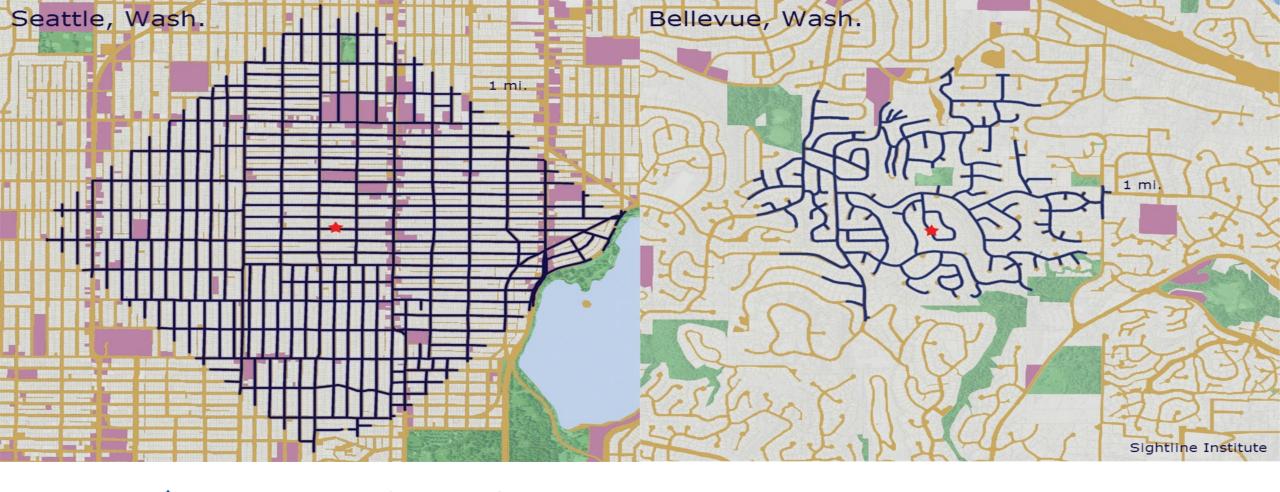
Two Ways To Grow (1980 to 1990)





Location	Portland, OR	Atlanta, GA
Property Taxes	29%	22%
Air Pollution	86%	1 5%
Neighborhood Quality	19%	11%





It costs \$2.8M per year for one fire station with two apparatus. A well connected system covers 4.6 times more houses.

- \$159 per year for well connected vs \$740 for poorly connected City of Charlotte, N.C.

Yield per Acre

Re-direct commercial and residential growth to downtown. Incentivize the investment of lofts above main street, and all infill within 2 blocks of downtown. Joe Minicozzi, Urban3

"...The best return on investment for the public coffers comes when smart and sustainable development occurs downtown. Suburban power centers give back little to the town; and they generate massive amounts of traffic that must be dealt with."

Joe reports that Asheville, NC gets an 800 percent greater return on downtown mixed-use development on a per acre basis compared to when ground is broken near the city limits for a large single-use development like a Super Walmart.







The Sammamish public works director was told it would take 10 years to go from concept to concrete.

Bulldozers were moving dirt on this unfunded project in 300 days.

Sammamish, Washington 228th Avenue



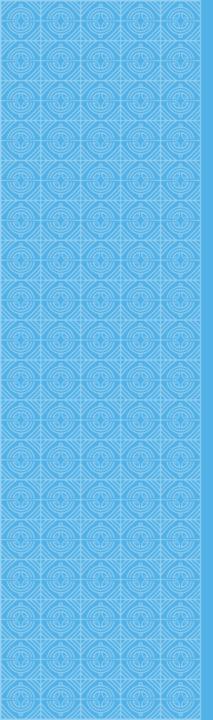












Land Use and Transportation

The Life Radius Approach to Community-Building

The more places that we have in or near our neighborhoods that we can walk or bike to, the lighter and healthier we become.

How close is your nearest park?
How close is your nearest school?
How close is your nearest friends house?
How close is your nearest store?
How close is your nearest work center?
How close is your nearest coffee shop, library, worship center?

At one time all neighborhoods met all our needs, stores, places to gather with others, play, attend school and participate in events.

What is your life radius?



The area close to home where we spend 90 percent of our lives.







Design for a Mix of Land Uses

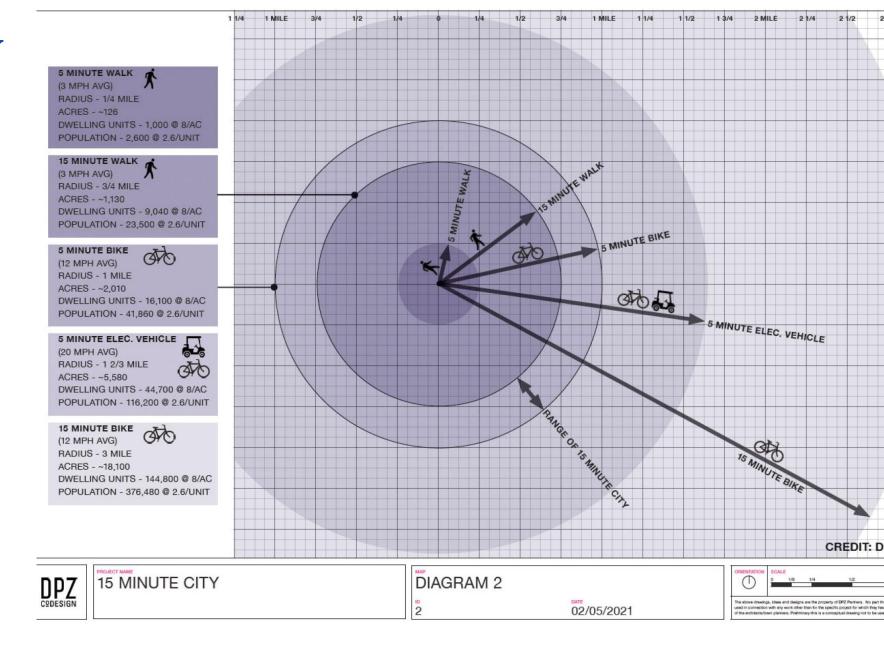
Centers include denser housing, a square, civic uses, and neighborhood- oriented retail.



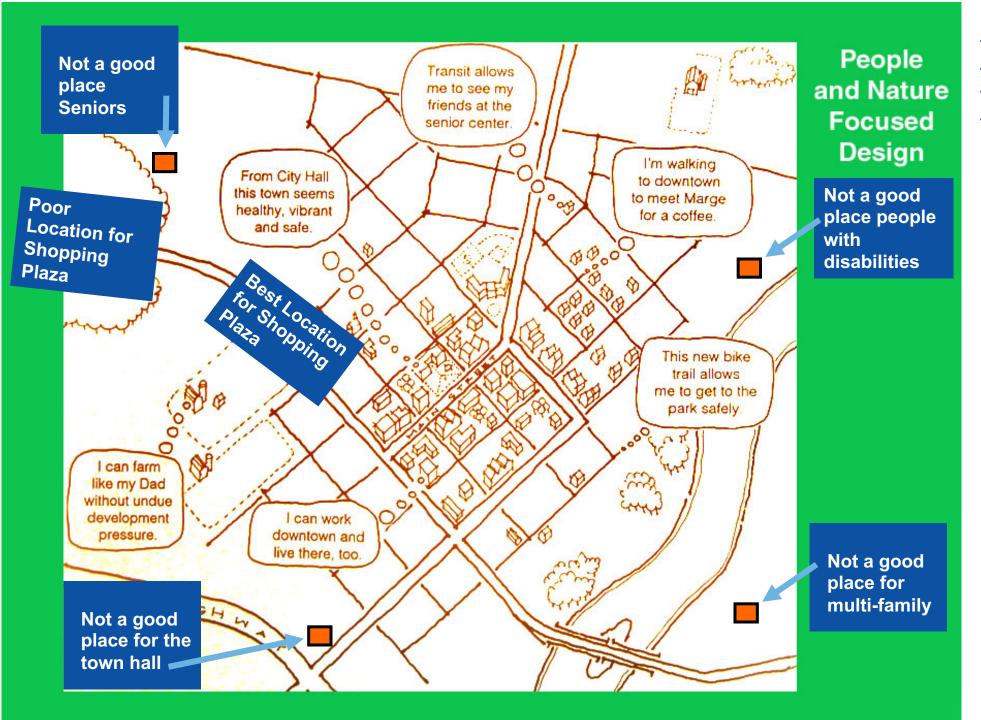
15-Minute City

The 15-minute city 'shows planners where to locate facilities that serve multiple neighborhoods. It employs conceptual radii drawn on plans in a similar way to urbanists' familiar quarter-mile "pedestrian shed." the 15minute city is defined by its ability to provide access to all human needs by walking or bicycling for a quarter hour or less.'

CNU







Location Efficiency

'Buildings and transportation together accounted for about 70 percent of energy use in the United States and about 62 percent of U.S. greenhouse gas emissions.1 ... housing type and location, along with energy-use features of homes and vehicles, all have an important role to play in achieving greater energy efficiency.'

EPA Smart Growth

¹Energy statistics from the U.S. Energy Information Administration's <u>Annual Energy Review 2009</u>, August 2010. Greenhouse gas statistics from EPA's <u>2010 Inventory of U.S.</u> Greenhouse Gas Emissions and Sinks, April 2010.

If this couple could live where they might live car-light or car-free, do their shopping, find entertainment and naturally bump into other people, their health, happiness, and longevity increase—and society/health costs go down.

Location Efficiency

The most effective way to reduce energy consumption is to locate homes of all types in areas where households could replace some automobile use with transit use, leading to reductions of 39 to 50 percent in household energy use.

EPA Smart Growth

Mixed Use Zoning is a way to bring destinations closer to one another.

Benefits:

- Reduces traffic and pollution by allowing residents to use their cars *less*;
- Creates pedestrianfriendly environments thanks to the short distances between living, work, commercial and recreational destinations.



Medium Density Pays Dividends



Monterey County needs more choice in housing types. A type of housing that has the added benefit of generally being more affordable and requires less land area. The solution is the **medium-density type** of housing.



Essential Workers Come First





Equality









Equity



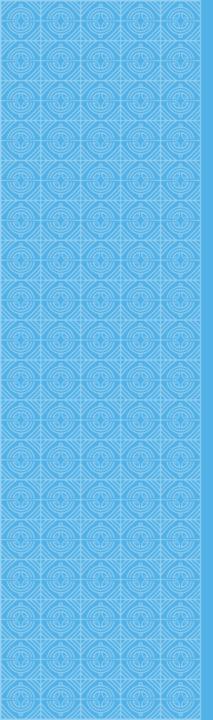








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Safety by Design

California Cities Study



Street network, safety and sustainability in 24 medium sized California cities

Cities selected to represent a range of traffic safety level

Marshall, W., Garrick, N. Street network types and road safety: A study of 24 California cities. *Urban Des Int* **15**, 133–147 (2010). https://doi.org/10.1057/udi.2009.31

24 California Cities

Alameda

Berkeley

Chico

Cupertino

Danville

Davis

La Habra

Palo Alto

San Luis Obispo

San Mateo

Santa Barbara

Santa Cruz

Antioch

Apple Valley

Carlsbad

Madera

Morgan Hill

Perris

Redding

Rialto

Temecula

Turlock

Victorville

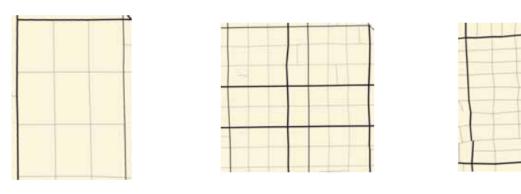
West Sacramento

Characterizing Street Networks

Street Network Configuration



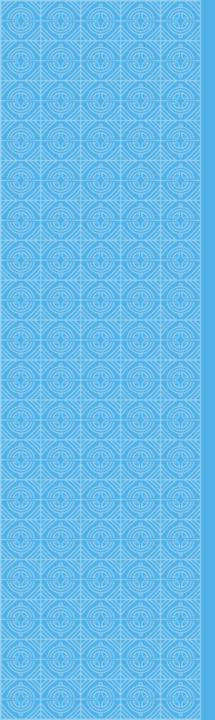
Street Network Scale



	NODE COMPARISON	
	Safer Cities	Less Safe Cities
Total Node Density	106 per sq. mi.	63 per sq. mi.
Macro & Intermediate Node Density % Major Nodes	6.9 per sq. mi. 6.3%	5.2 per sq. mi. 8.2%
Dead End Node Density % Dead Ends	32 per sq. mi. 30.2%	23 per sq mi. 36.5%
LEED-ND Node Density	74 Marshall, W., Garrick	40 k, N. Street network types and road safety: A st

Marshall, W., Garrick, N. Street network types and road safety: A study of 24 California cities.

	SAFETY COMPARISON	
	Safer Cities	Less Safe Cities
Fatal or Severe Crashes	12.7 per year	17.0 per year
% Fatal or Severe	1.6%	3.1%
Macro & Intermediate Fatal or Severe	9.1 per year	13.7 per year
% Fatal or Severe	1.8%	3.3%
Micro Road Fatal or Severe	2.0 per year	1.7 per year
% Fatal or Severe	1.7%	2.7%



Target Speed

Target Speed

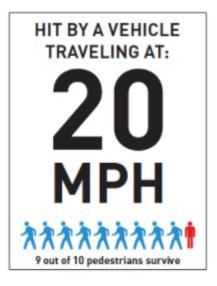


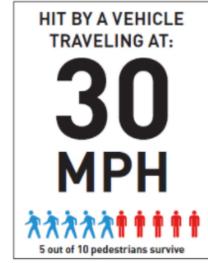


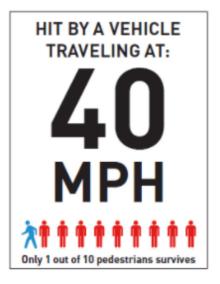




Use 15-20 MPH Target Speeds in Downtowns and Neighborhoods







Higher speeds increase the likelihood and severity of crashes while lower speeds improve safety and comfort for everyone, especially people walking and cycling. Survival for pedestrians and bicyclists is directly tied to vehicular speed. Why would we want motorists to put themselves and others in danger when we know the impacts of inducing higher speeds through outdated design practices?

Chico, CA Nord Avenue

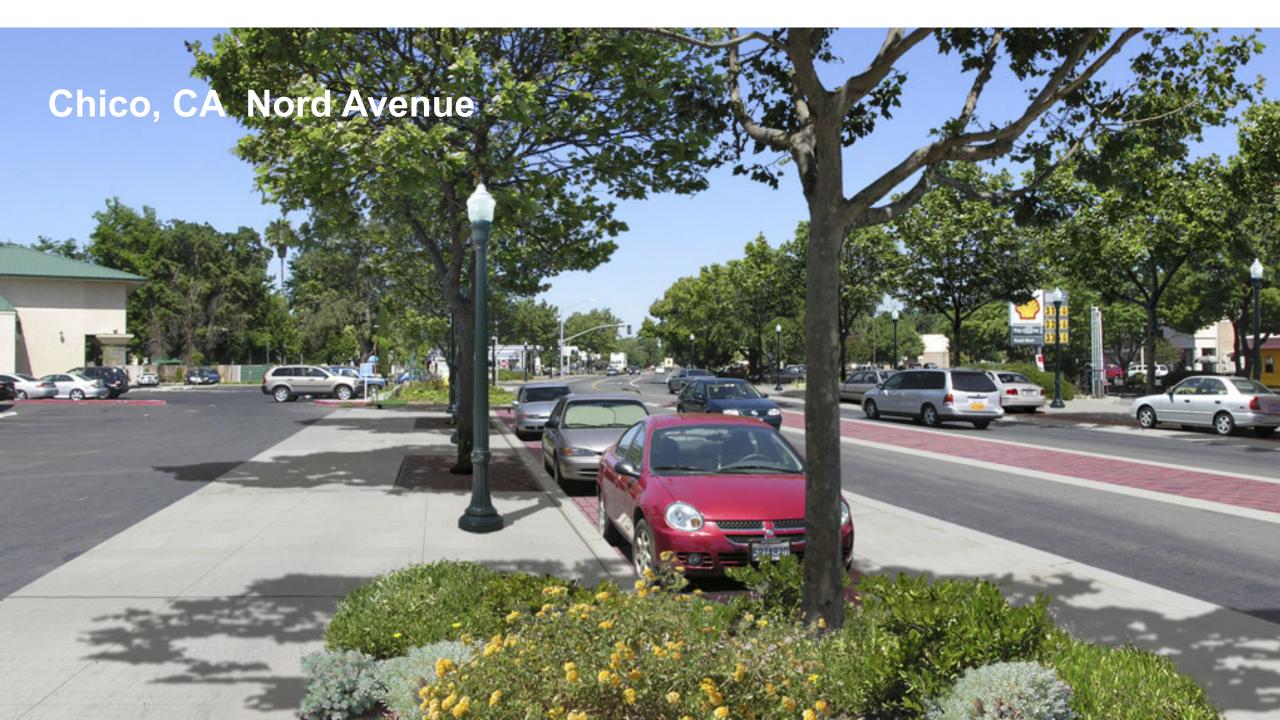


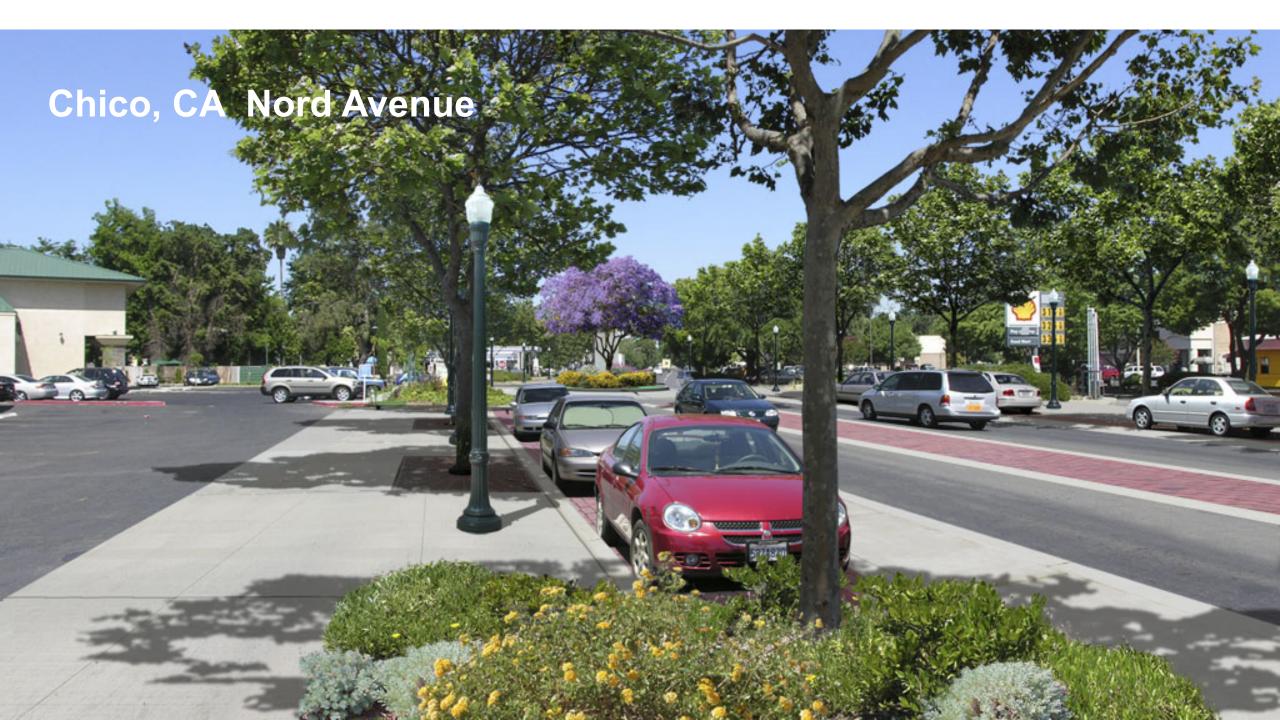
Chico, CA Nord Avenue

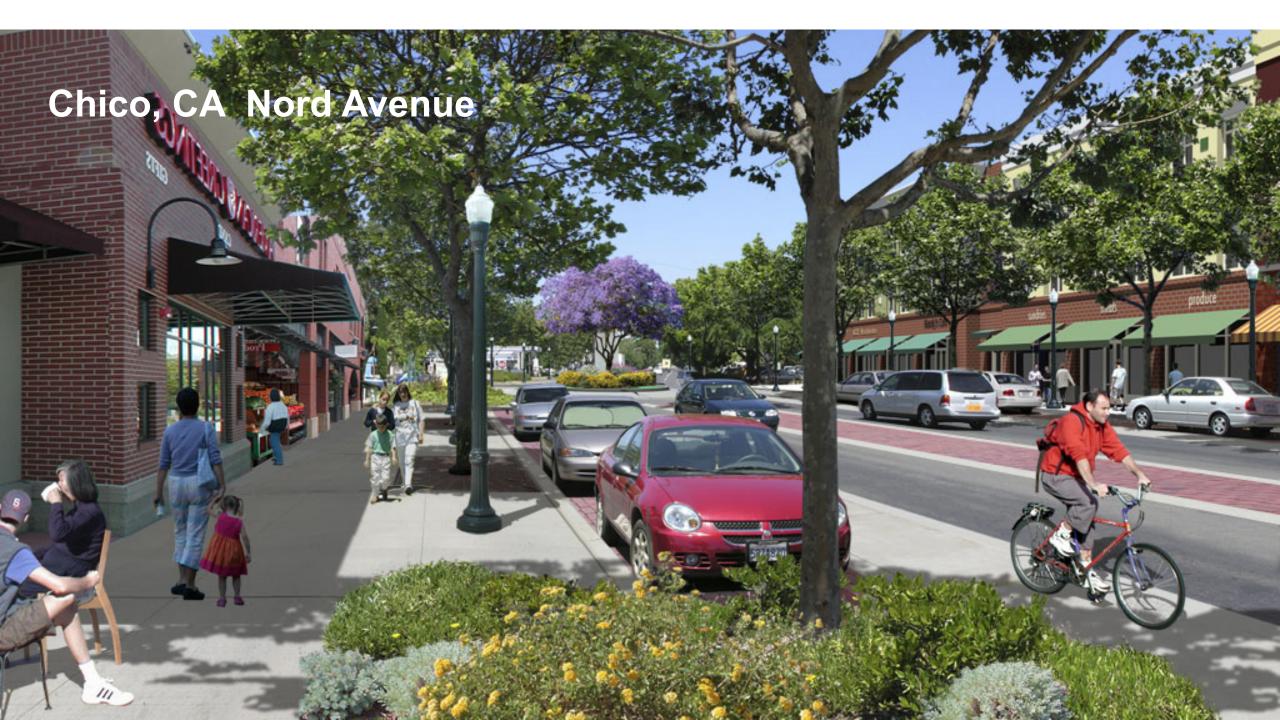


Chico, CA Nord Avenue

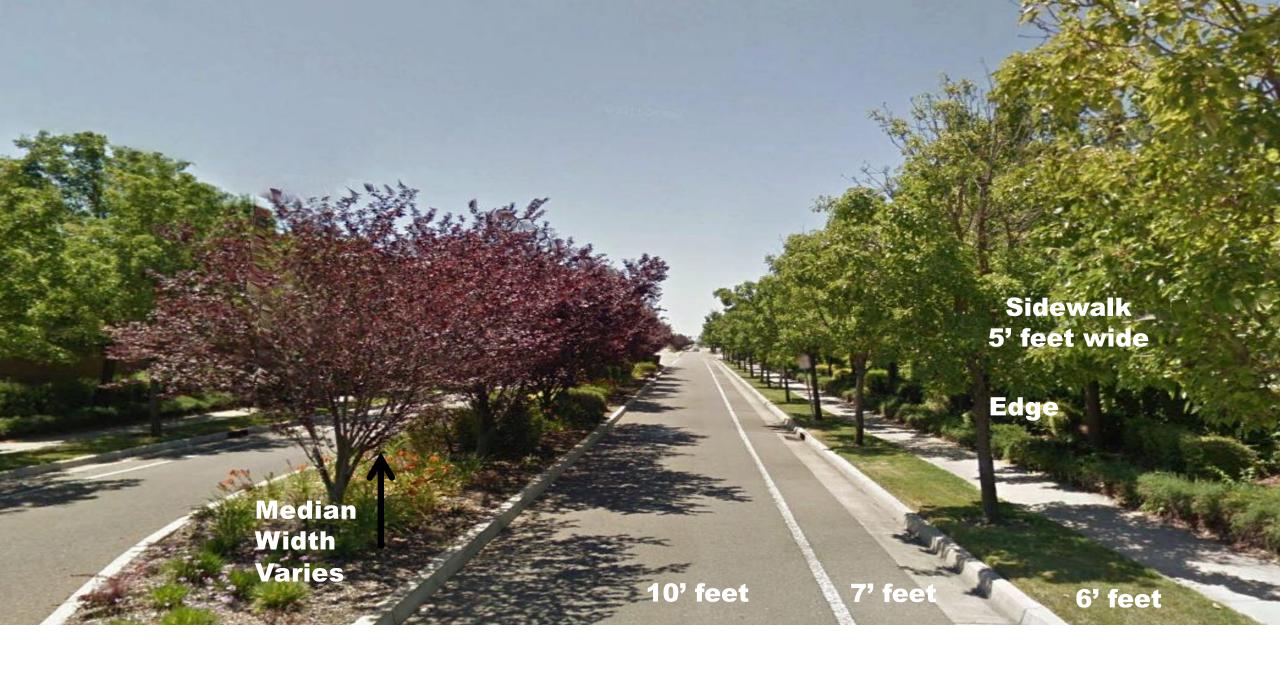






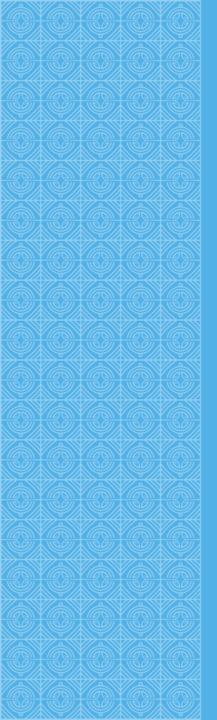








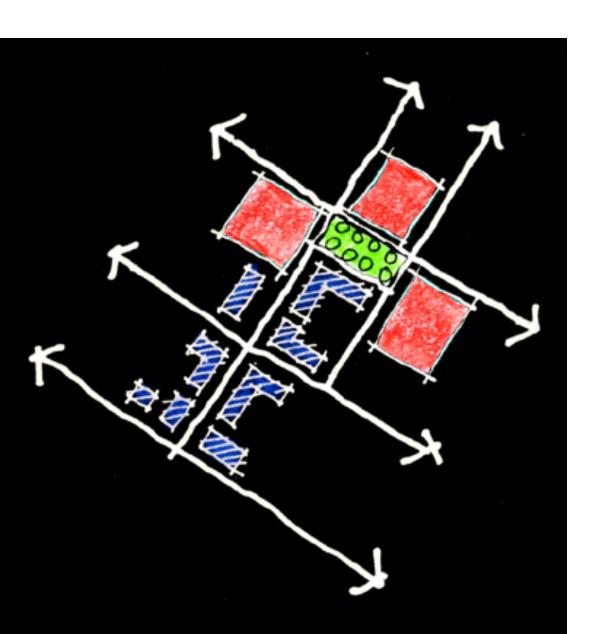




Case Studies



One less travel lane; bike lanes; parallel to back-in diagonal parking on one side; new pavement.



Winter Park Village

There are an estimated 1000-3000 bankrupt or nearly bankrupt malls in America. Could these be transformed into villages?

















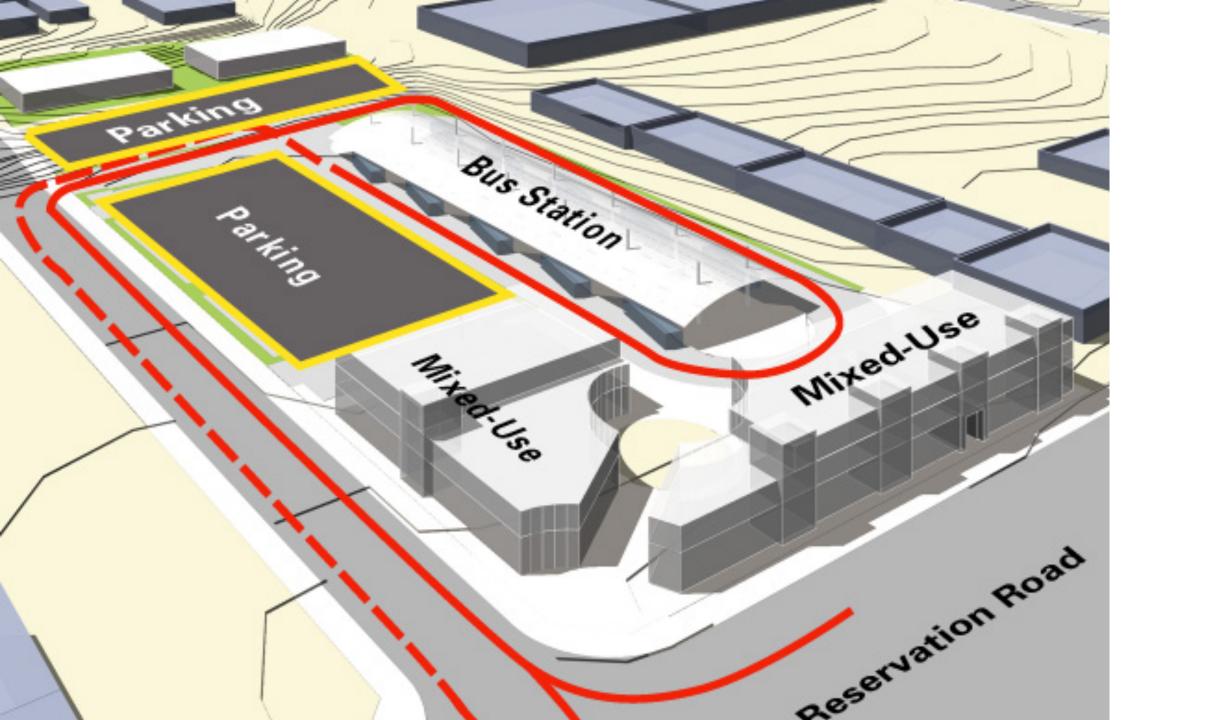




Marina Transit Station / Town Center Design Workshop















Buffered Bike Lane

Castle Rock, Colorado built a 4-lane entry to a community, but immediately painted the outer lane as a wide buffered bike lane.

Possibly the road will remain as a safer 2-lane road (20-60% fewer crashes) for decades, or throughout the life of the development.







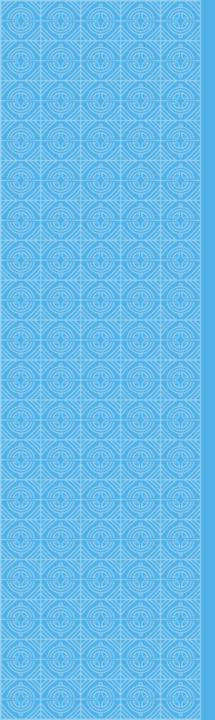












Measure X

Measure X

- "Mobility for All" funding under Measure X allots \$80 million over 20 years to bike and pedestrian safety, active transportation investments, and a focus on increasing services for seniors and those with disabilities.
- Considering the broad need to achieve health and wellness through these limited funds, how can we best apply policies, programs to have the greatest impact?







Dan Burden

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