

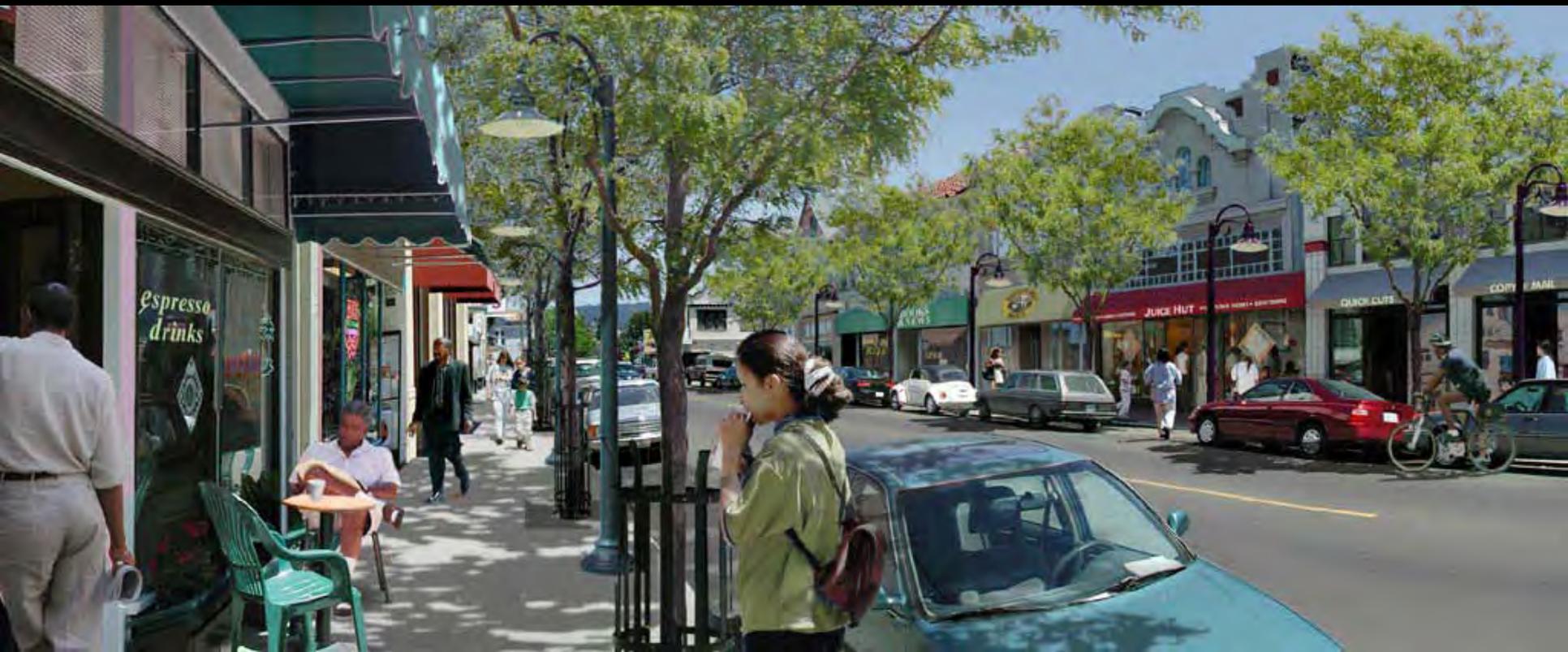
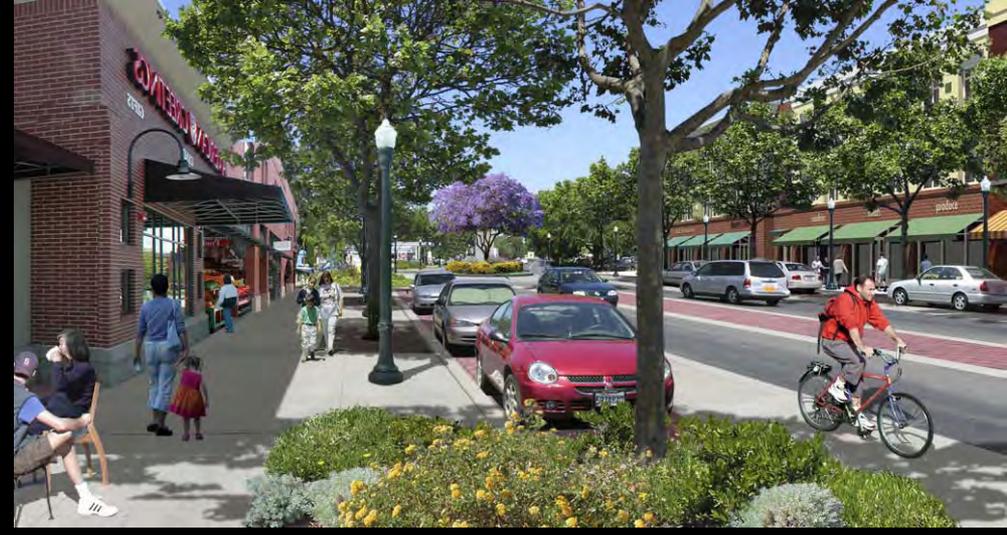
Walkability



"Walkable Communities: What Makes A Community Walkable and Livable?"



2010 Built Environment and the Outdoors Summit
Wichita, Kansas
By Dan Burden
Livable and Walkable Communities Institute



Is this the landscape we want to leave
our children?



THE
GENERAL MOTORS
EXHIBIT BUILDING



1939

New York World's Fair

HIGHWAYS AND HORIZONS



Scenes from the
GENERAL MOTORS FUTURAMA
New York World's Fair

“Abundant sunshine, fresh air, fine green parkways will blend together seamlessly with dazzling skyscrapers and seven-lane highways.”

THE
GENERAL MOTORS
EXHIBIT BUILDING



New York World's Fair
HIGHWAYS AND HORIZONS



"If we are to have full use of automobiles, cities must be remade...awaiting industry that will do wonders, for prosperity will spring up when we revamp our cities"

...Post Magazine (circa 1930)

If it weren't for the damn pedestrian there would be no traffic problem in Los Angeles...

... circa 1972, Los Angeles Traffic Engineer

Compact villages and a strong civilian presence is the only solution to our traffic problems...

... circa 1995, San Diego Traffic Engineer



What is the Purpose of Cities?



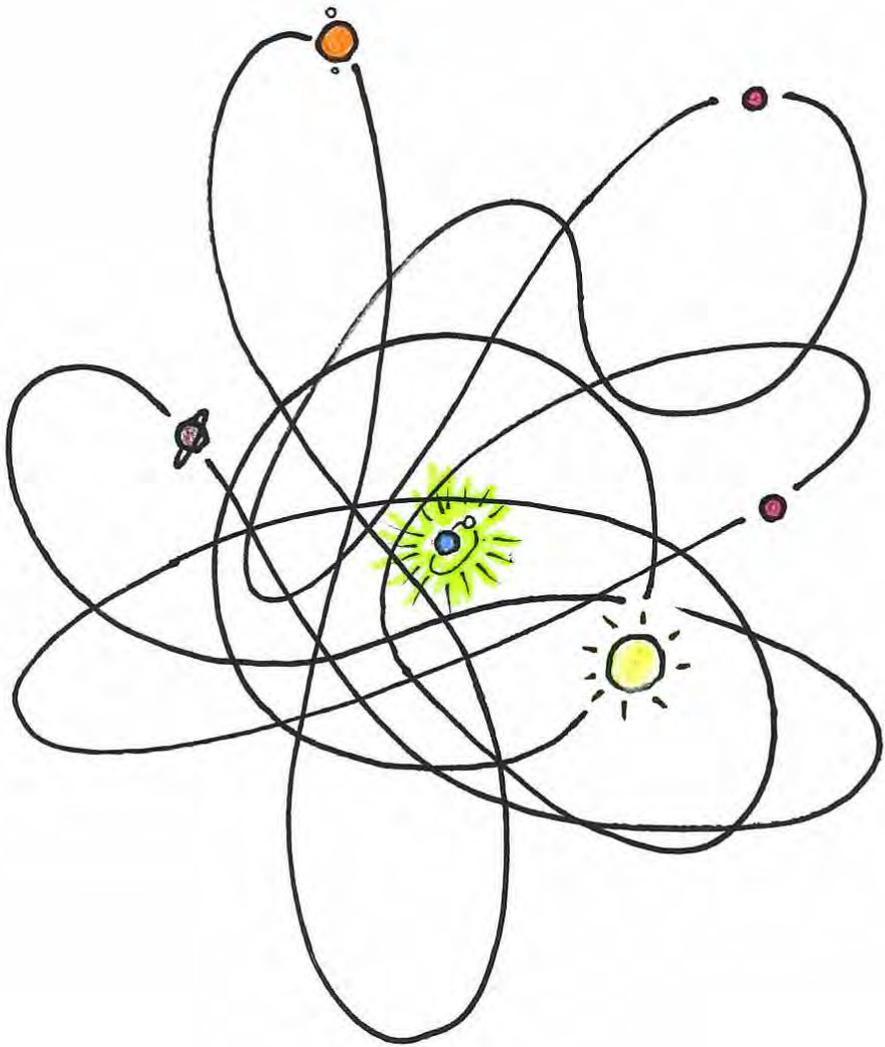
Cities are an invention to maximize exchange (goods, culture, friendship, knowledge) and to minimize travel.

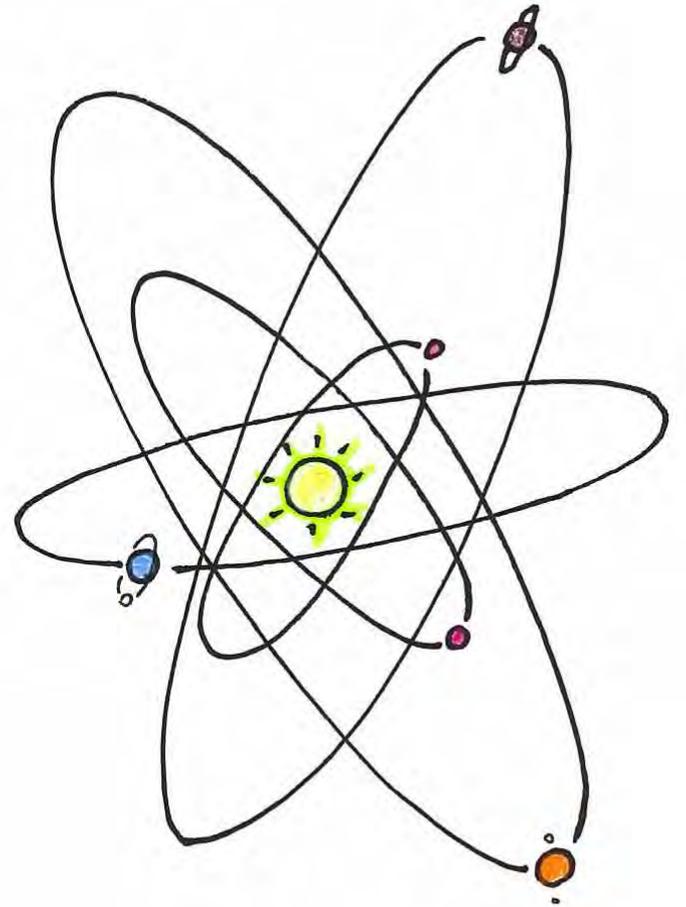
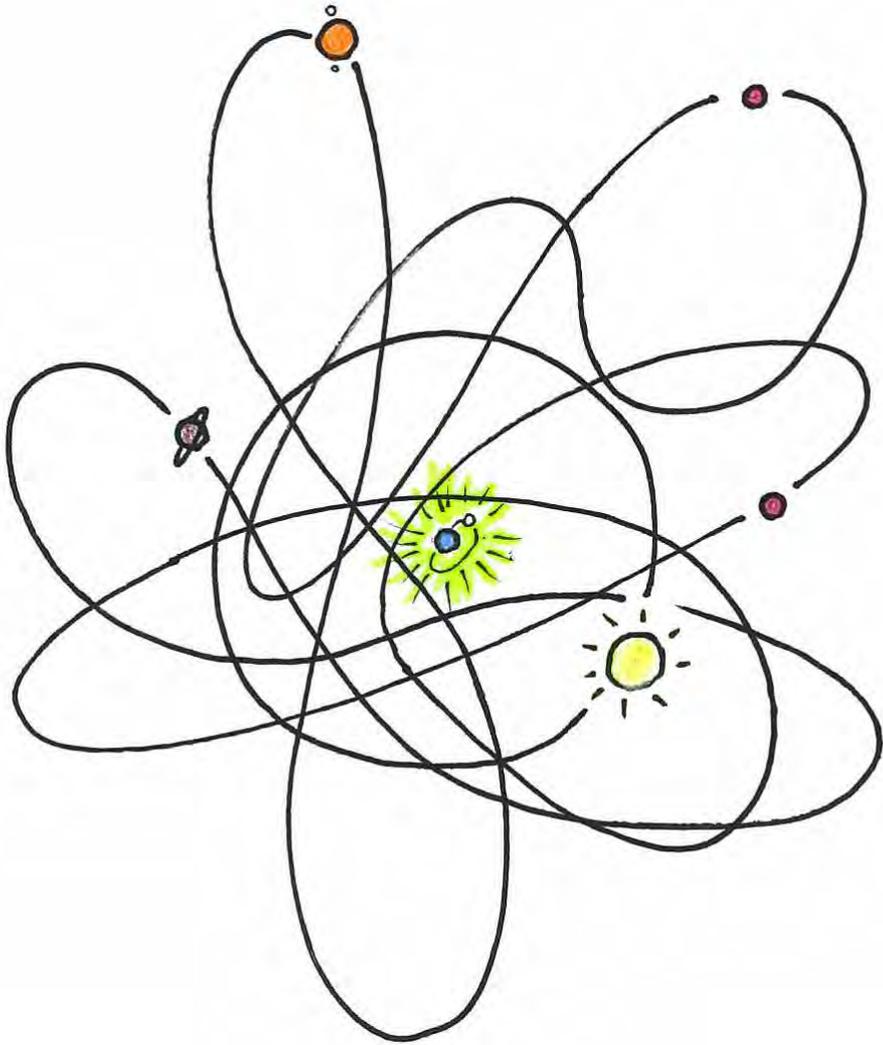
The role of transport is to maximize exchange.

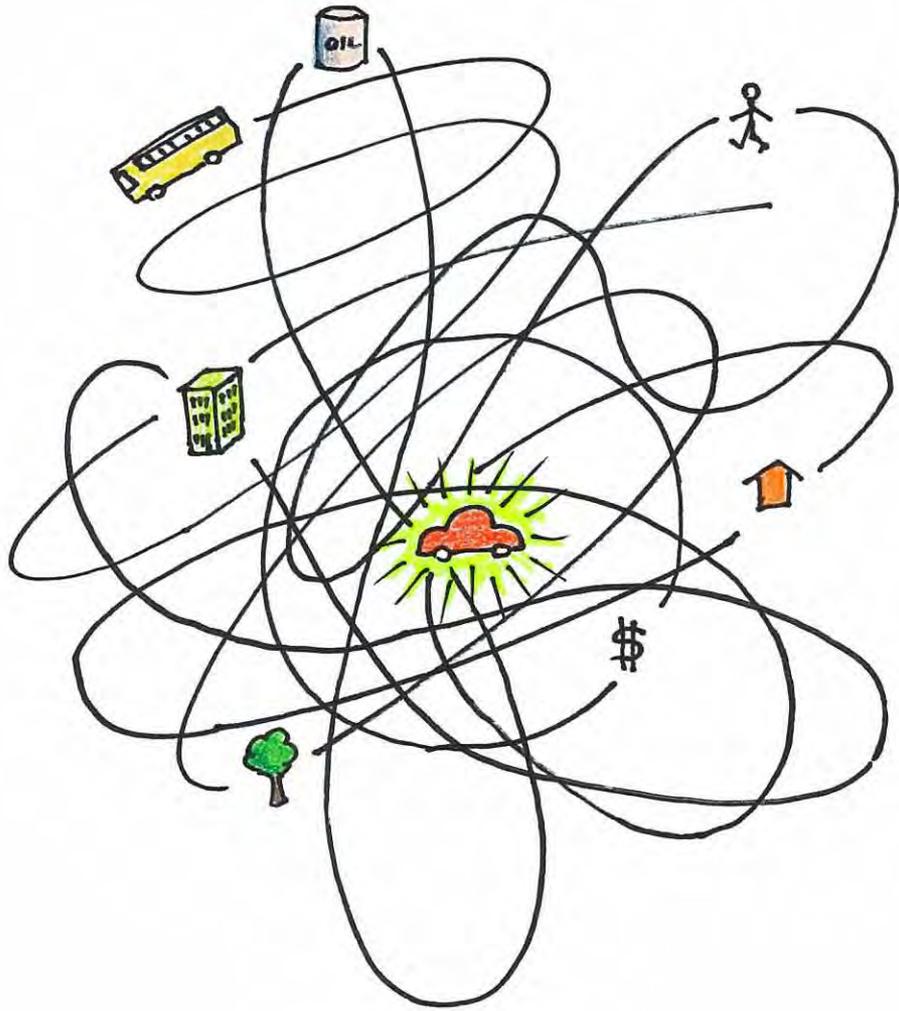
....David Engwicht

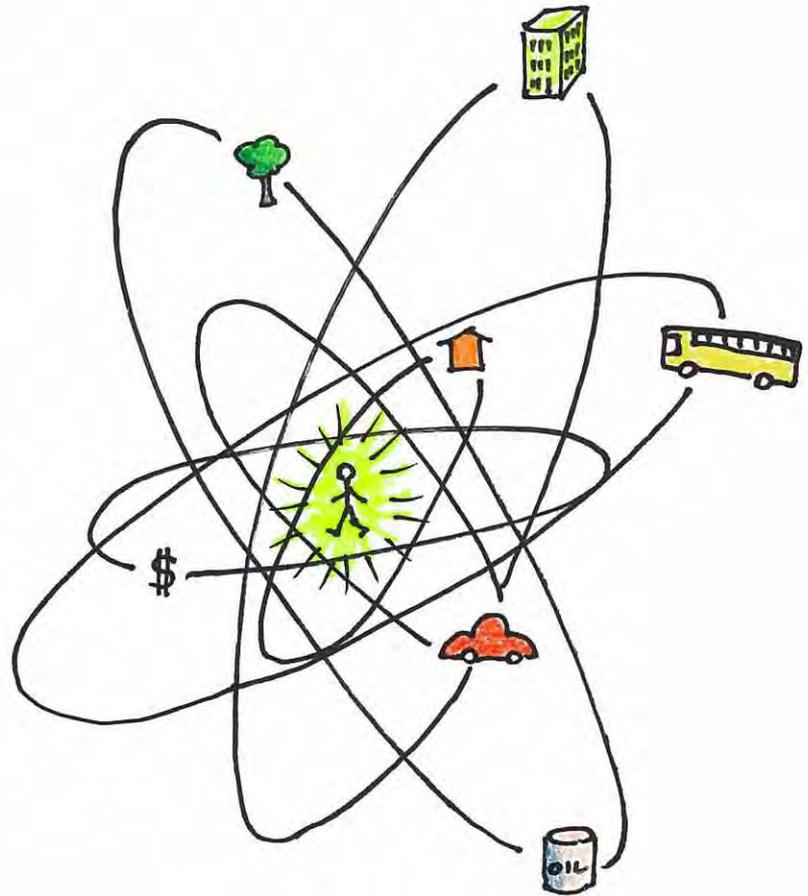
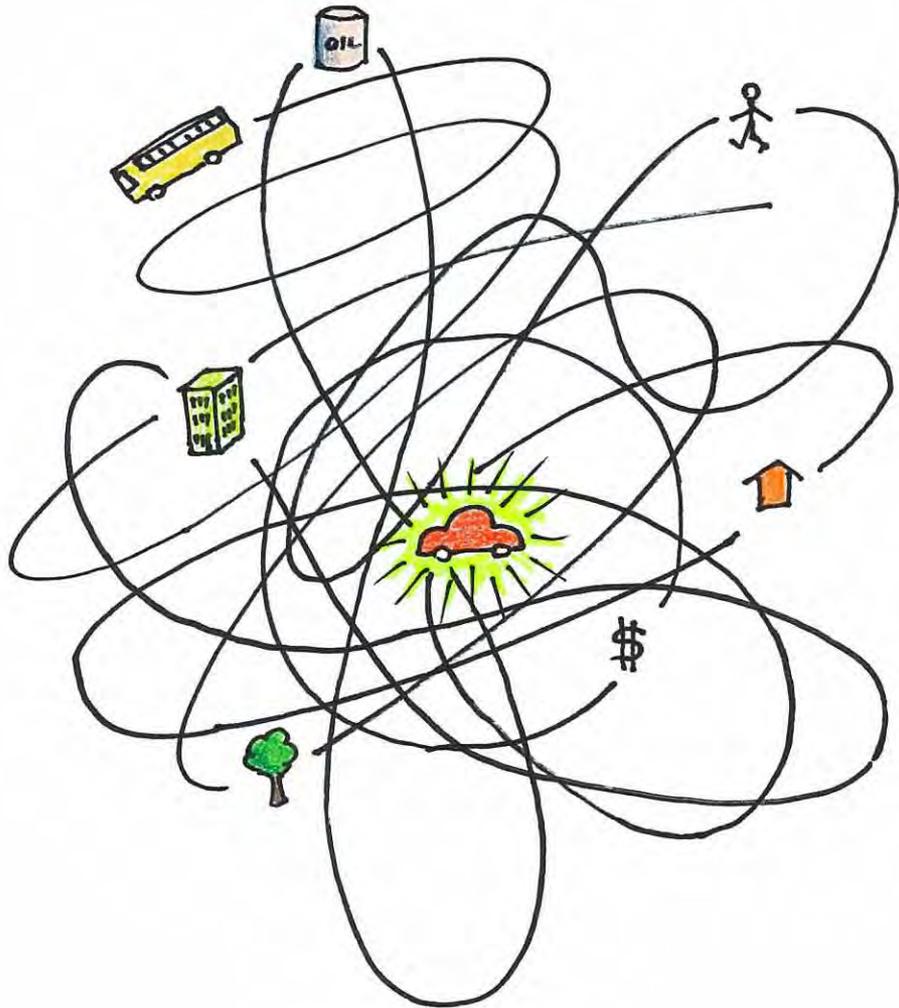












TWO WOLVES

One evening an old Cherokee told his grandson about a battle that goes on inside people. He said, "My son, the battle is between two wolves inside us all.

"One is Evil - It is anger, envy, jealousy, sorrow, regret, greed, arrogance, self-pity, guilt, resentment, inferiority, lies, false pride, superiority, and ego.

"The other is Good - It is joy, peace, love, hope, serenity, humility, kindness, benevolence, empathy, generosity, truth, compassion and faith."

The grandson thought about it for a minute and then asked his grandfather: "Which wolf wins?"

The old Cherokee simply replied, "The one you feed."



HAVING LESS OF THIS...



REQUIRES MORE OF THIS...

HAVING MORE OF THIS...



REQUIRES LESS OF THIS...



Building
from our
Values

EXP JUN

I N D I A N A

INDIANA
INDIANA
INDIANA
KG1680

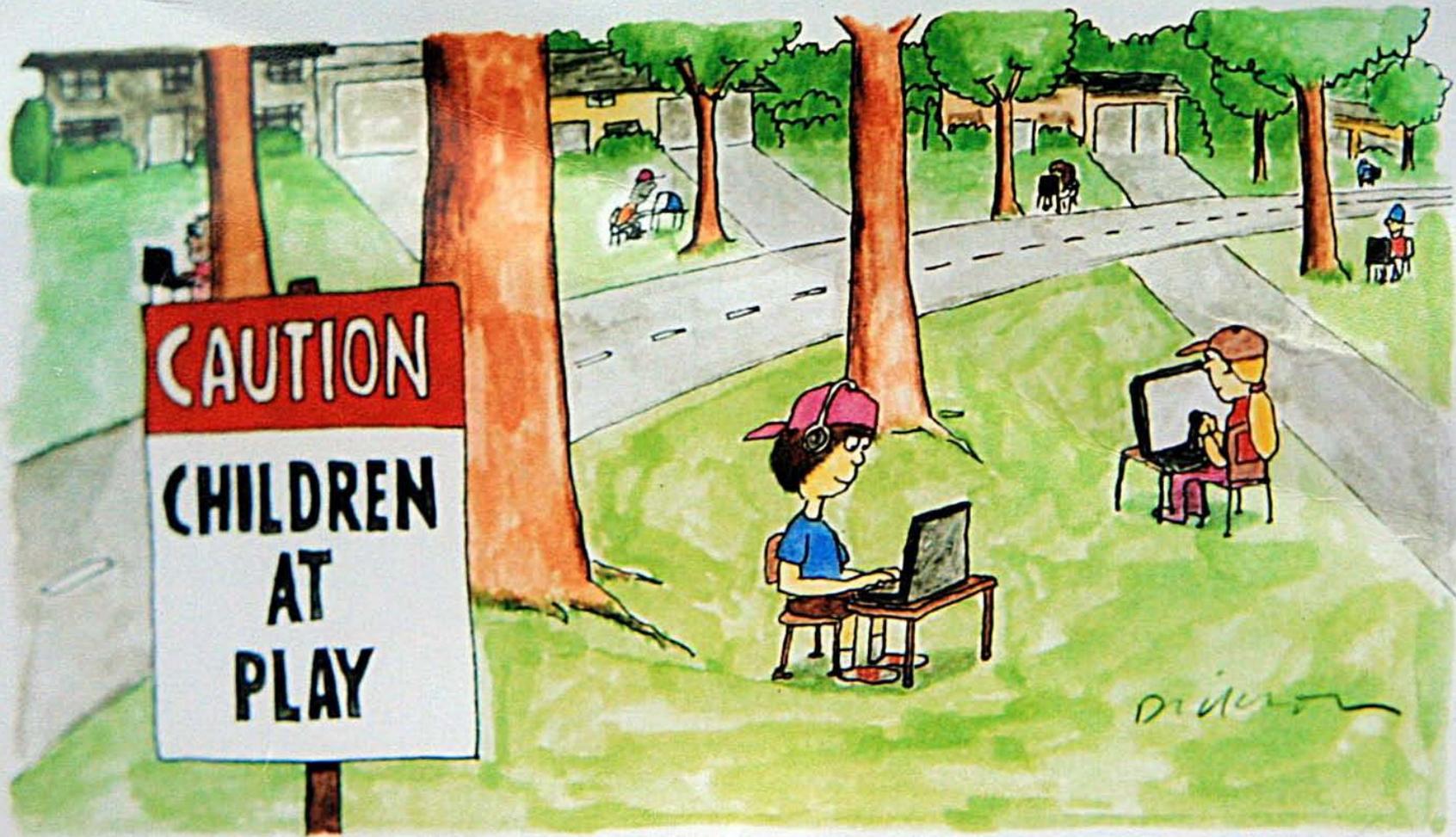


K 1680
G

Kids First



...we often forget about the people



Your patient isn't the only one who has become fat



Surgeon General's Report

21% US citizens ages 9-17 have a diagnosable mental or addictive disorder associated with at least minimum impairment



Childhood needs

1. To develop fully children need a broad range to roam
2. U.S. children today have a range **one/ninth** of their parents
3. Einstein roamed the streets of Munich at the age of four, exploring on his own
4. Our most important neural pathways are developed before the age of nine.





Forest Hills Elementary School
- Travel Routes Survey -



The City of Lake Oswego is doing a study involving travel routes to your school. We would greatly appreciate your help since this involves how you travel to school.

Please write a short paragraph below describing what your trip to school each morning feels like to you.

My trip to school each morning feels cold, quiet, and nice but when I sing when I'm walking I feel happy. I even sing when it's raining but if someone comes by I stop singing when it rains my shoes get wet & muddy. I also have to walk 8 blocks to school so my feet gets hurt. I also see people walking there dogs but their friendly. I see cat that are nice. I sometimes pet the dogs & cats. I always see beautiful flowers, small trees, birds, and the wind always feel cool.



Childhood is a holistic process, different for each individual child. Many children do not learn effectively exclusively within a classroom. They need alternative, hands-on learning environments to match their varied learning styles.

Well designed streets and public spaces offer children a sense of belonging as an antidote to social violence.

Interviews with adults in jail for violent crimes found a consistent marker, they lacked early opportunities in life for play.

If children participate in the design and cleanliness of spaces in their neighborhood, they will value and respect them more fully.



What's Wrong Here?



America's Wealthiest County

What the
Community
Provided

What the Customer
Wanted



What the
Customer
Wanted

What the
Community
Provided



Who we did not build for

Who we built for



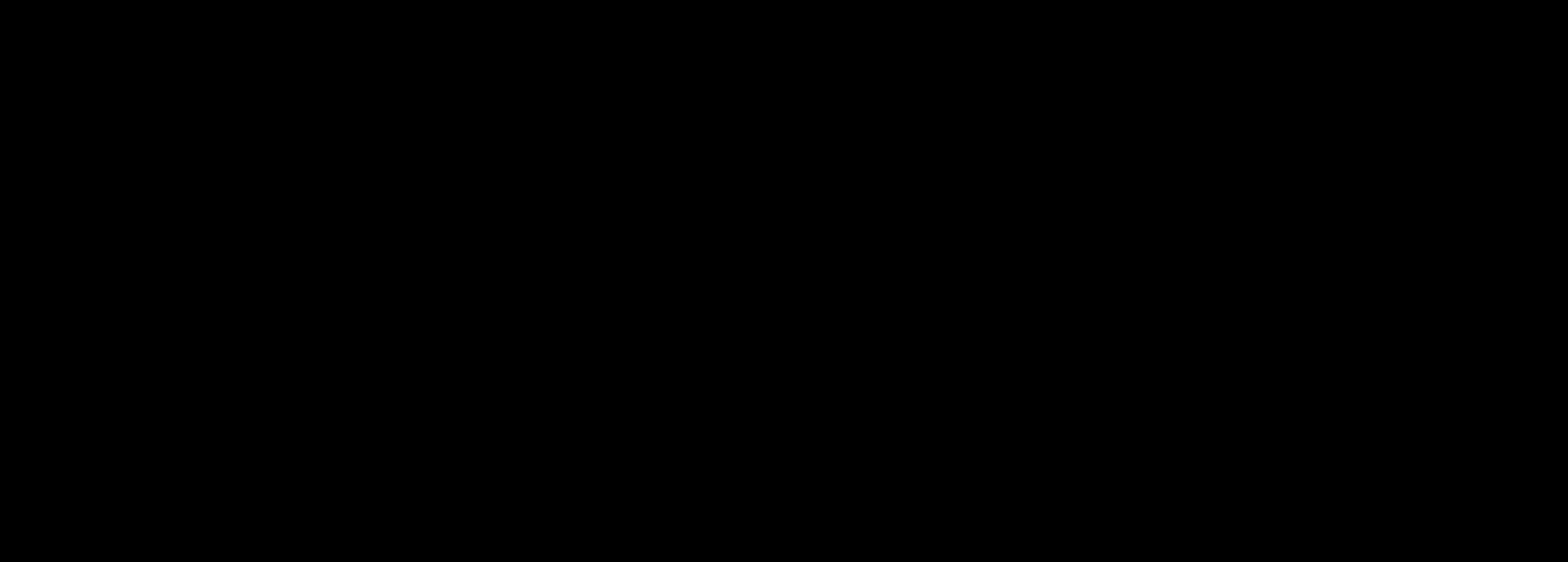
Who we did not build for

Who we built for



Who we did not build for

Who we built for



Who we did not build for

Who we built for





The Pedestrian in America has been marginalized compromised to Death

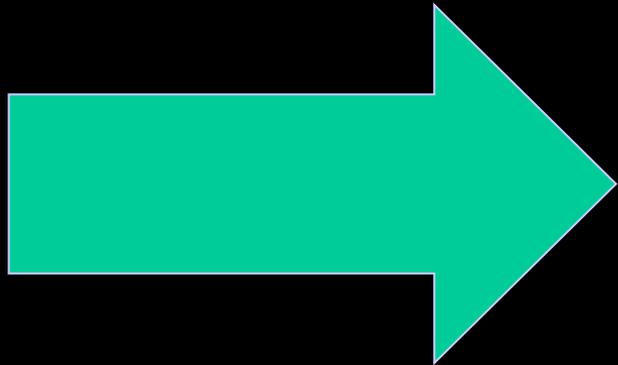




Thirty percent of North Americans old enough to drive do not drive. This percentage is increasing.



Walking teaches us who to share with



Walking teaches us who to share with

"What is the first thing an infant wants to do and the last thing an older person wants to give up?"

Walking is the exercise that does not need a gym. It is the prescription without medicine, the weight control without diet, and the cosmetic that can't be found in a chemist. It is the tranquilizer without a pill, the therapy without a psychoanalyst, and the holiday that does not cost a penny. What's more, it does not pollute, consumes few natural resources and is highly efficient. Walking is convenient, it needs no special equipment, is self-regulating and inherently safe.

."



A walkability plan must set a stage for all other modes of transportation to work, including transit. If people cannot walk then transit remains ineffective.

Encourage Your Hopes
Not Your Fears

FERREBALESCO@AOL.COM PO BOX 112 TCB W. ORANGE, NJ 07052



Walkable Communities will Grow and Accommodate your needs



As we age our need for association will continue to grow



As we age access to healthy foods will be critical



As we age access to healthy foods will be critical



ASPARAGUS
NEW SEASON

TENDER BUNCHES
3 FOR \$5.00
per bunch

SAN ROQUE
EL CORONIL
SEVILLA





CHEGWORTH VALLEY
 hand selected, farm pressed juices
Braeburn
 Very crisp + Juicy
 + Sweet
 £1.80 kilo Pick and Mix



Bramley - The best Cooker
 with Sugar, Honey
 centre!
 pick + mix



CHEGWORTH VALLEY
 hand selected, farm pressed juices
Egremont Russet
 Very Crisp + Juicy
 £1.80 kilo Pick and Mix



CHEGWORTH VALLEY
 hand selected, farm pressed juices
Jonagored
 Sweet, Crisp + Juicy
 £1.80 kilo Pick and Mix





As we age access to gentle, friendly exercise will be vital



As we age access to gentle, friendly exercise will be vital



As we age access to gentle, friendly exercise will be vital



As we age access to fun ways to move and strut our stuff will be rewarding















The Day that Bubbles Froze Before Hitting the Ground



Photo by: Kelly Morphy, Glatting Jackson



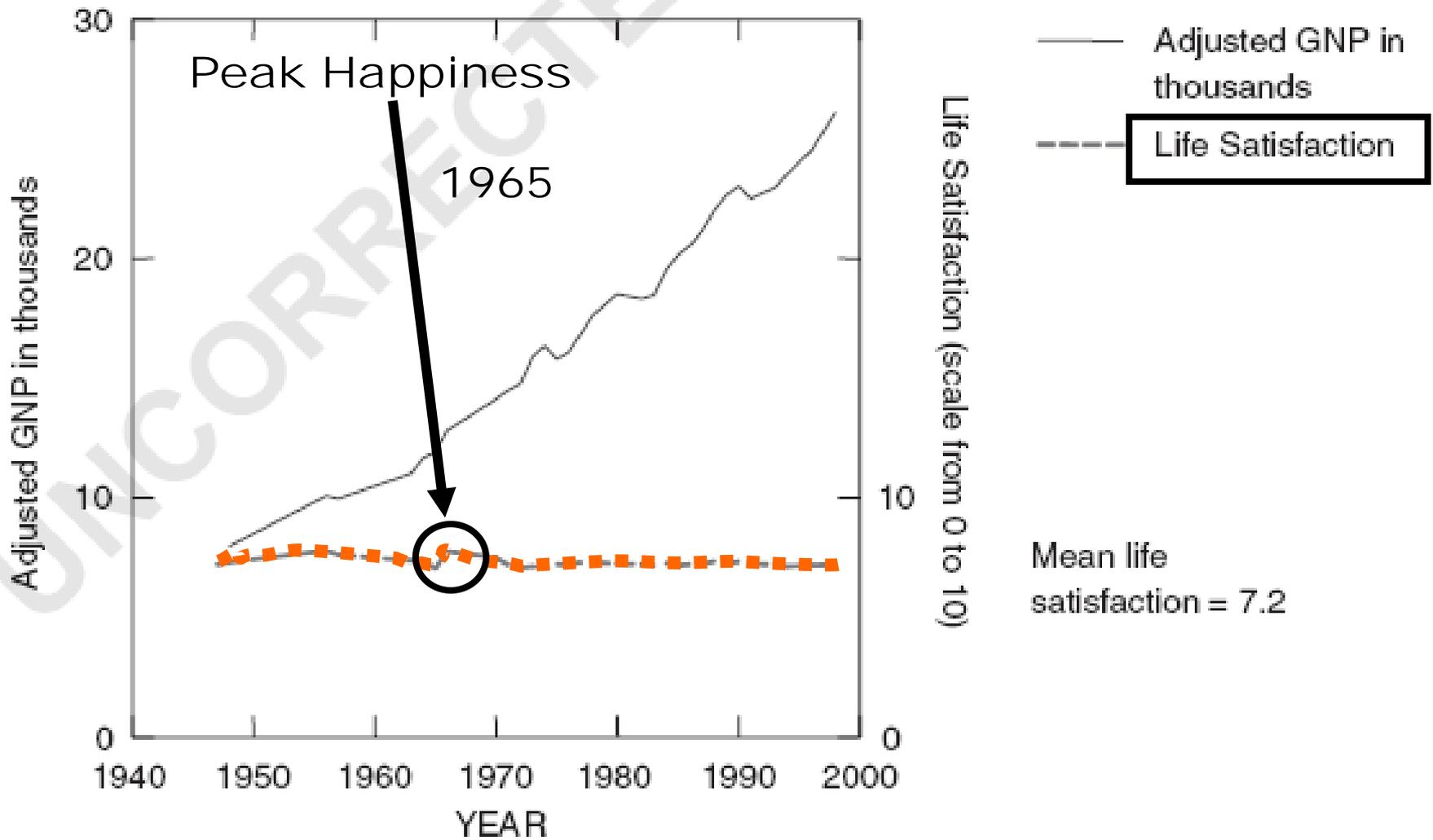


Fig. 1. U.S. gross national product (GNP) and mean life satisfaction from 1947 to 1998.





No Standing

Except
Government Vehicles
Motorist Parking
3 hrs limit
7 am - 7 pm
Monday - Saturday

← Pay at →

Muni-Meter

NYC Parking Card
Available

www.nyc.gov





Schools





School Busing and Parent Drop Off's



School busing and parent drop off's account for as much as 30% of rush hour traffic.

In some towns afternoon school rush hour is bigger than the morning commuter rush hour. This effect is part of an undesired result of poorly located, oversized schools, poor walkability, wide roadways, poor neighborhood design and school busing not being charged to local school boards.

THERE IS TOO MUCH TRAFFIC
FOR BILLY TO WALK TO SCHOOL;
SO WE DRIVE HIM.





Honolulu, Hawaii



17th Avenue and Vicente Street

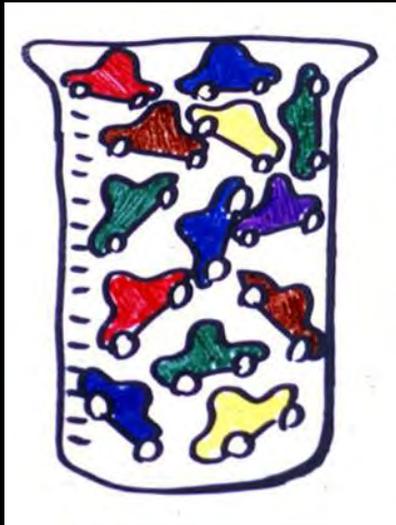
San Francisco, California



We need to see the world through the eyes and feet of our children



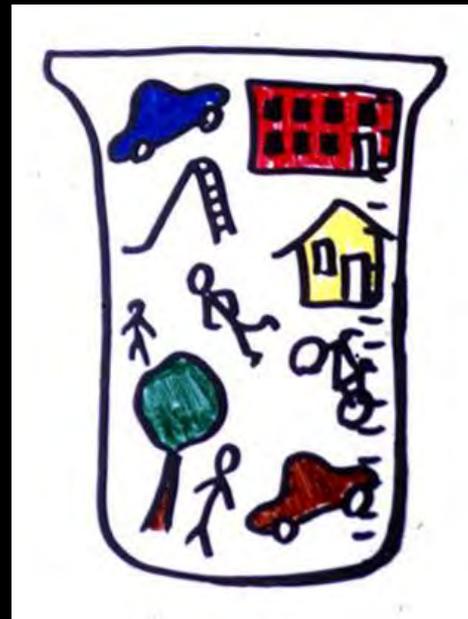




Following that philosophy led to this, redundantly.

The simple needs of automobiles are more easily understood and satisfied than the complex needs of cities, and a growing number of planners and designers have come to believe that if they can only solve the problems of traffic, they will thereby have solved the major problems of cities.

A new beaker and measure will lead to this.





New measure for street performance:
People come to your street to shoot their wedding pictures





"If we want a booming economy of mom and pop stores, we'd better build the environment where they succeed"







The Day that Bubbles Froze Before Hitting the Ground



Photo by: Kelly Morphy, Glatting Jackson



Density with Design



Dover Kohl & Partners

1980s & 90s: Density, but...

Density with Design



In New Projects: Maintain the Relationship of Building and the Street

Density with Design



Dover Kohl & Partners

**In New Projects: Make the Streets Good
Neighbors**

Density with Design



Dover Kohl & Partners

**In New Projects: Promote the Street as an
Amenity, and Inspire Investment**





What are the problems here?



Lack of Security

Lack of people

Lack of investment

Lack of diversity

Auto dependence

No place to buy a popsicle

Lack of diversity

Lack of activity



Parks/Plazas







Our parks and plazas are our places of play, discovery, relaxation. Our parks and plazas are where our best new ideas are born. Parks provide our open air, our solitude in the morning our dances of delight and silliness at midday ... and, if











Monterey, California



Cleveland, Ohio.

Monterey, California





AQUARIAN BICYCLES

486

MAIL BOXES ETC

R.S. DAY



Parks



Parks within 1/8th Mile of each house (800 feet)



Petaluma, California



Petaluma, California



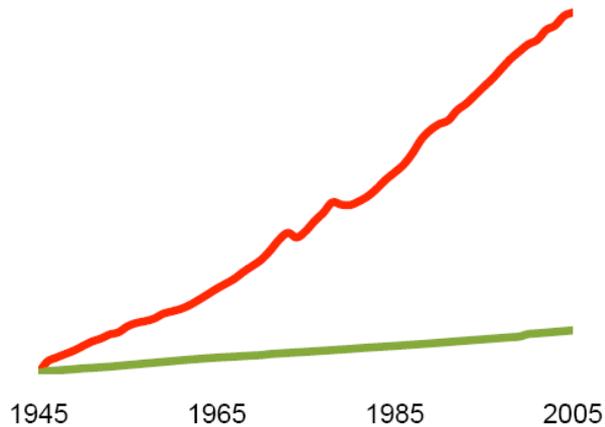
West Lafayette, Indiana (Home of Purdue University)





J. Bowler

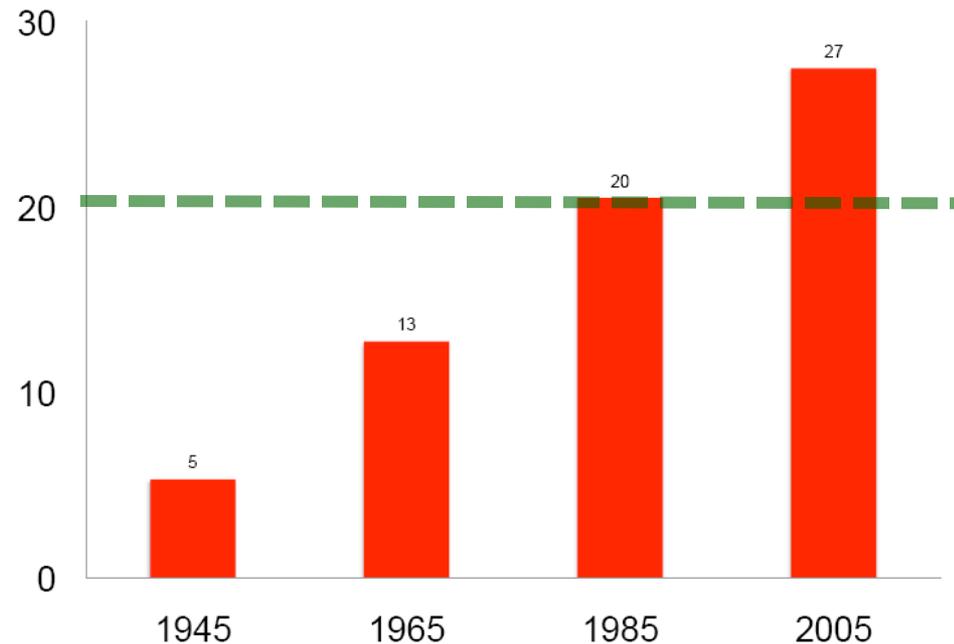
Vehicle Miles Traveled 1945 to 2005



Norman W. Garrick

Driving more miles each year (like obesity) is a visible symptom, an indicator of a disease that is running amuck in each of our towns and villages.

Miles per day per capita 1945 and 2008



Why we cannot build our way out of traffic



Vehicle miles traveled (VMT) around the U.S. have increased by 70 percent over the last 20 years, compared with a **two percent** increase in new highway construction. The U.S. General Accounting Office predicts that road congestion in the U.S. will **triple in 15 years** even if capacity is increased by 20 percent.

Traffic is growing about five times faster than the growth in population.

(Data compiled for a report to the U.S. Department of Transportation in 2006 written by Stephen Polzin, (transportation researcher at the University of South Florida in Tampa.)

*The World is
Changing
Expect:*

Option One:

*25% more traffic every ten years.
More intersections failing.
More people spreading out into
canyons, ridges and other high
risk locations.*



Also Expect:

More cars per household

*Limited new lanes and limits on
intersections being rebuilt*

More demand for slowing traffic

More demand for traffic to stay in motion

More demand for safer streets

More demand for quieter streets

Option Two:

Return to Traditional streets and land uses

More connectivity

More walking, bicycling and transit

People living closer to services, shorter trips by time and distance

More funding for well located engine houses

Improved and more appropriate equipment

More ways to respond

Fewer personal injury auto crashes



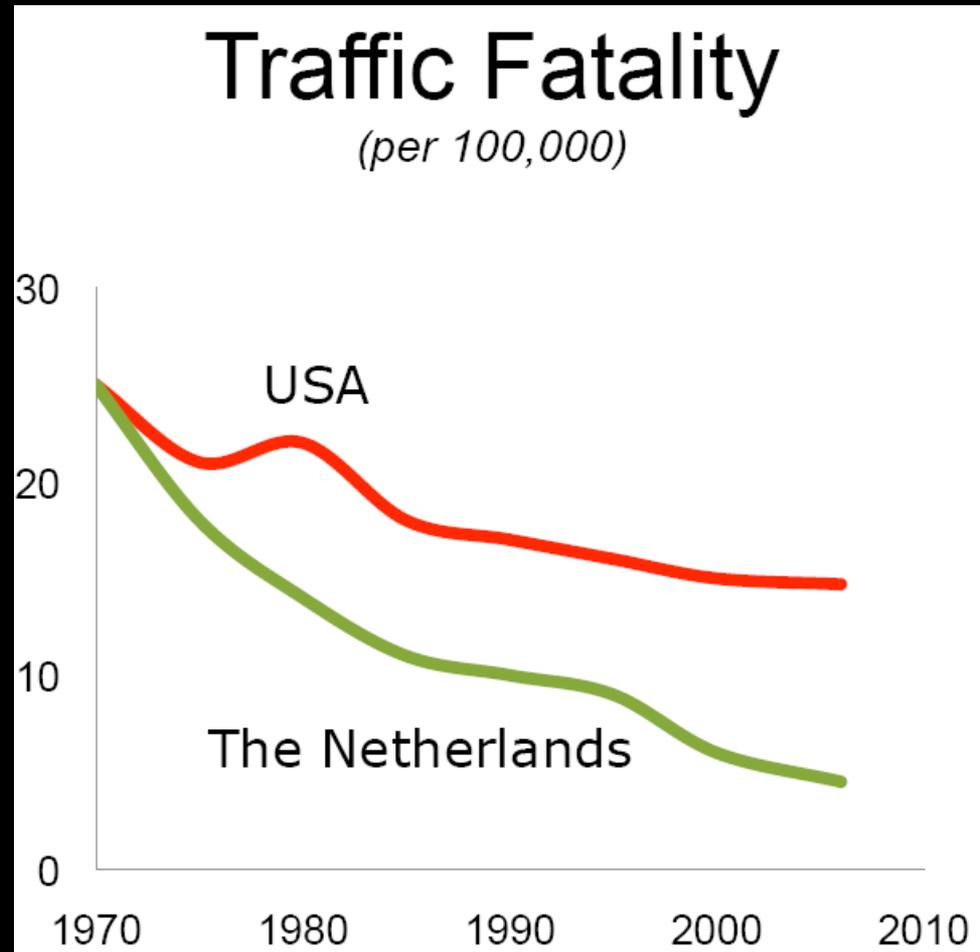
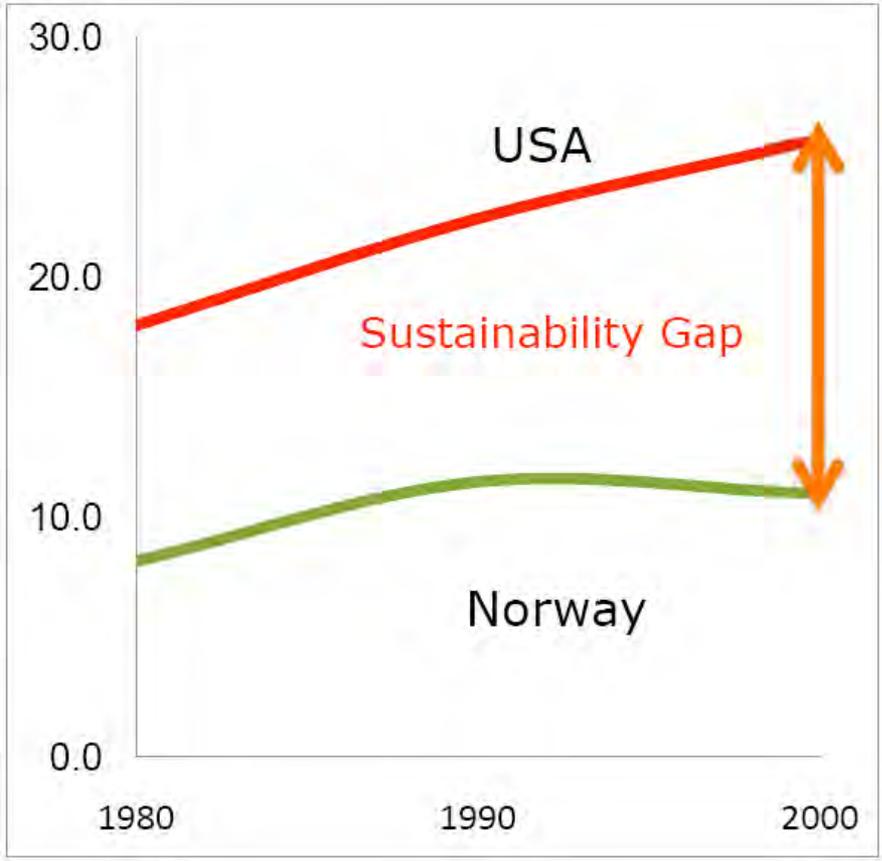
Kiss the burbs goodbye.

STAPLETON
the art of urban living

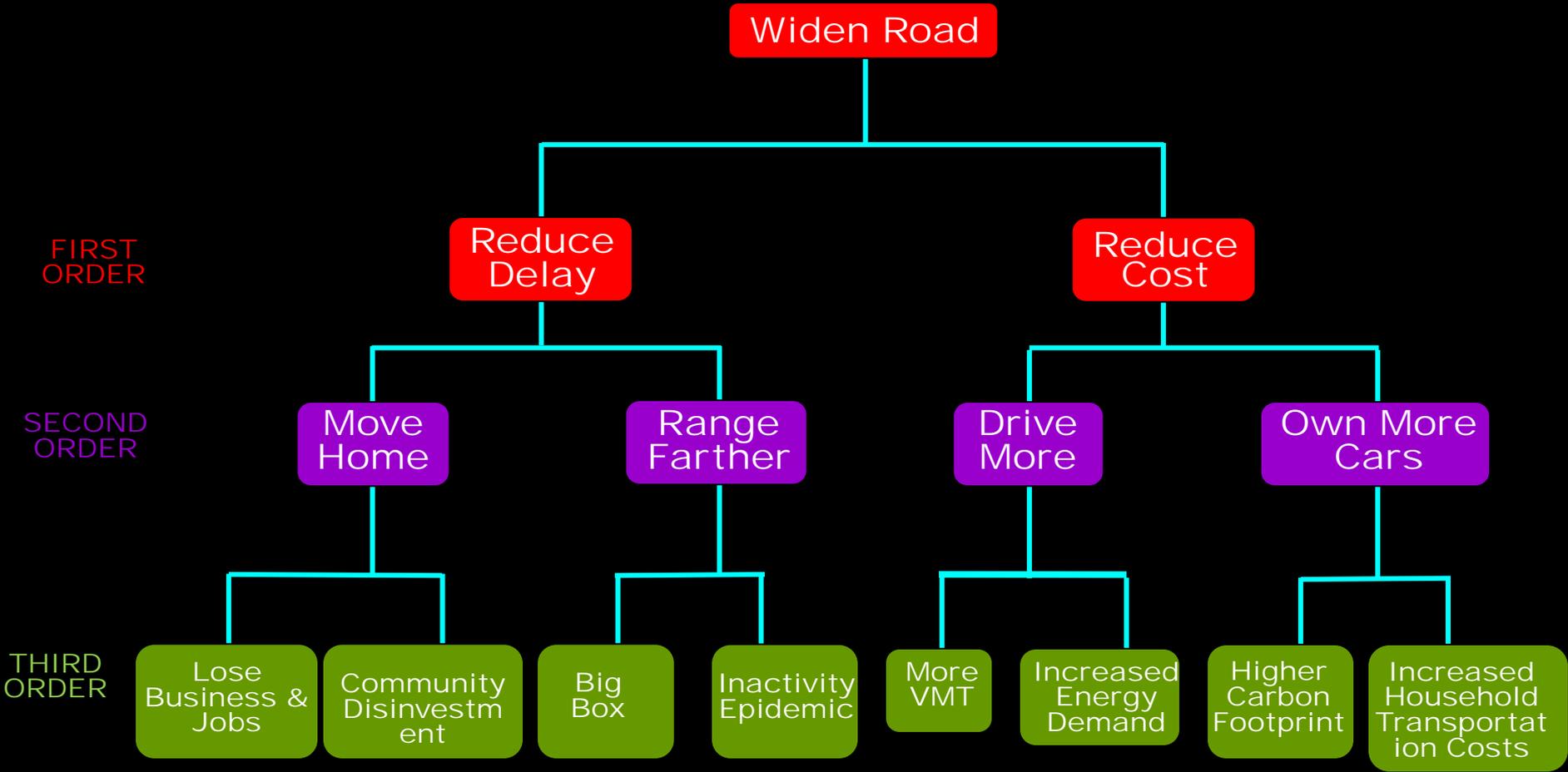
Just 10 minutes from Downtown.

HOMES + OFFICES + SHOPS + PARKS

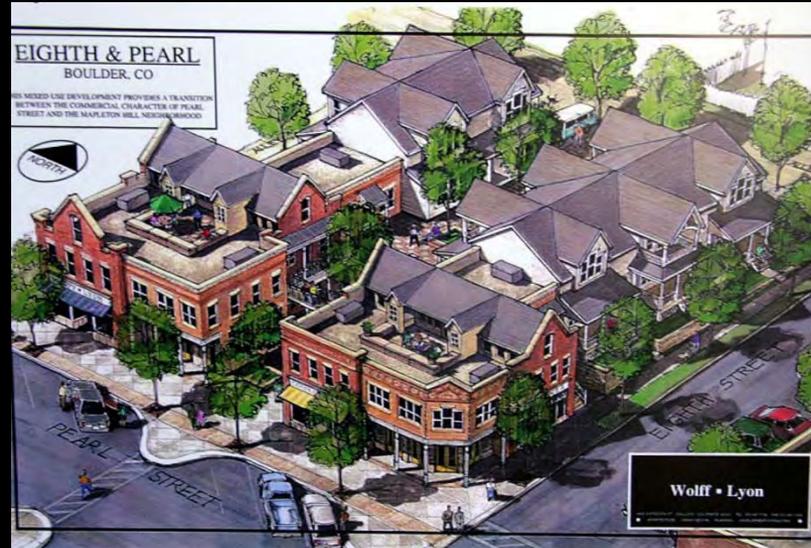


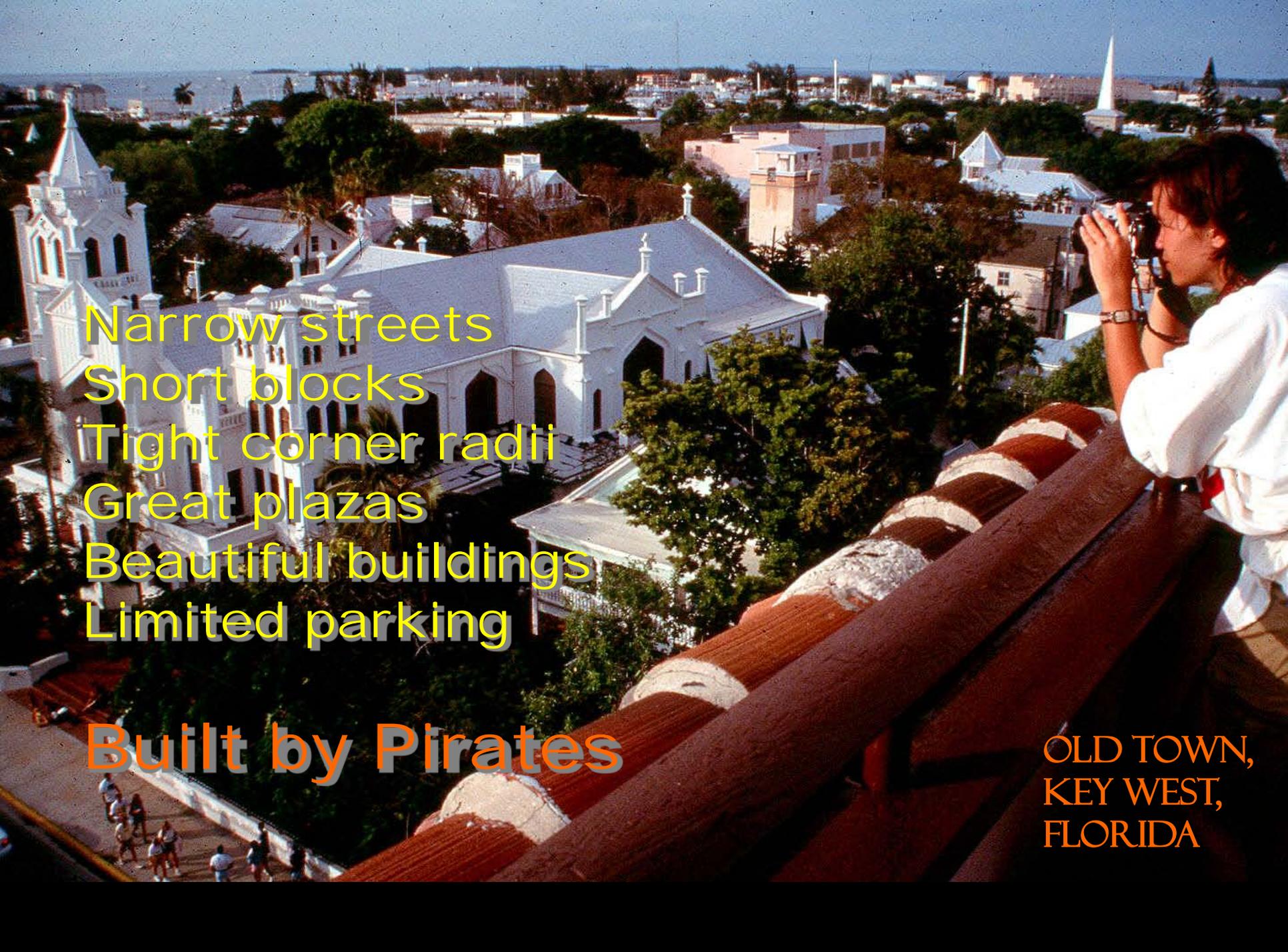


Chain of Impacts



City Making

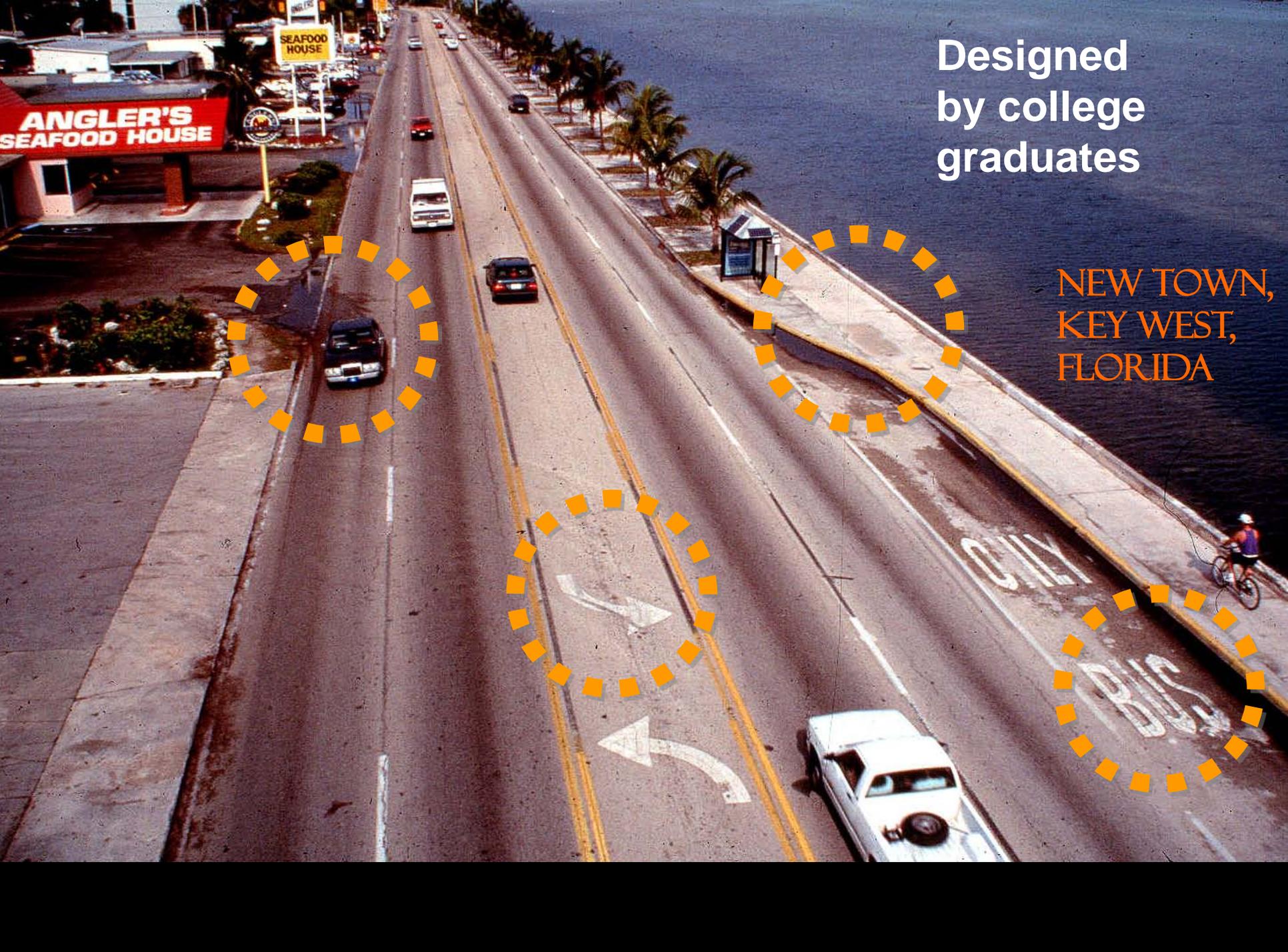




Narrow streets
Short blocks
Tight corner radii
Great plazas
Beautiful buildings
Limited parking

Built by Pirates

OLD TOWN,
KEY WEST,
FLORIDA



Designed
by college
graduates

NEW TOWN,
KEY WEST,
FLORIDA



Ed. according to a view of England, 1819, by Geo. Meyer. In the Coll. Office of the Secretary, District of New York.

BIRDS EYE VIEW OF ALEXANDRIA, VA

Seaside, Florida

Townhouses frame the square while open space provides an outdoor environment for nearby residents

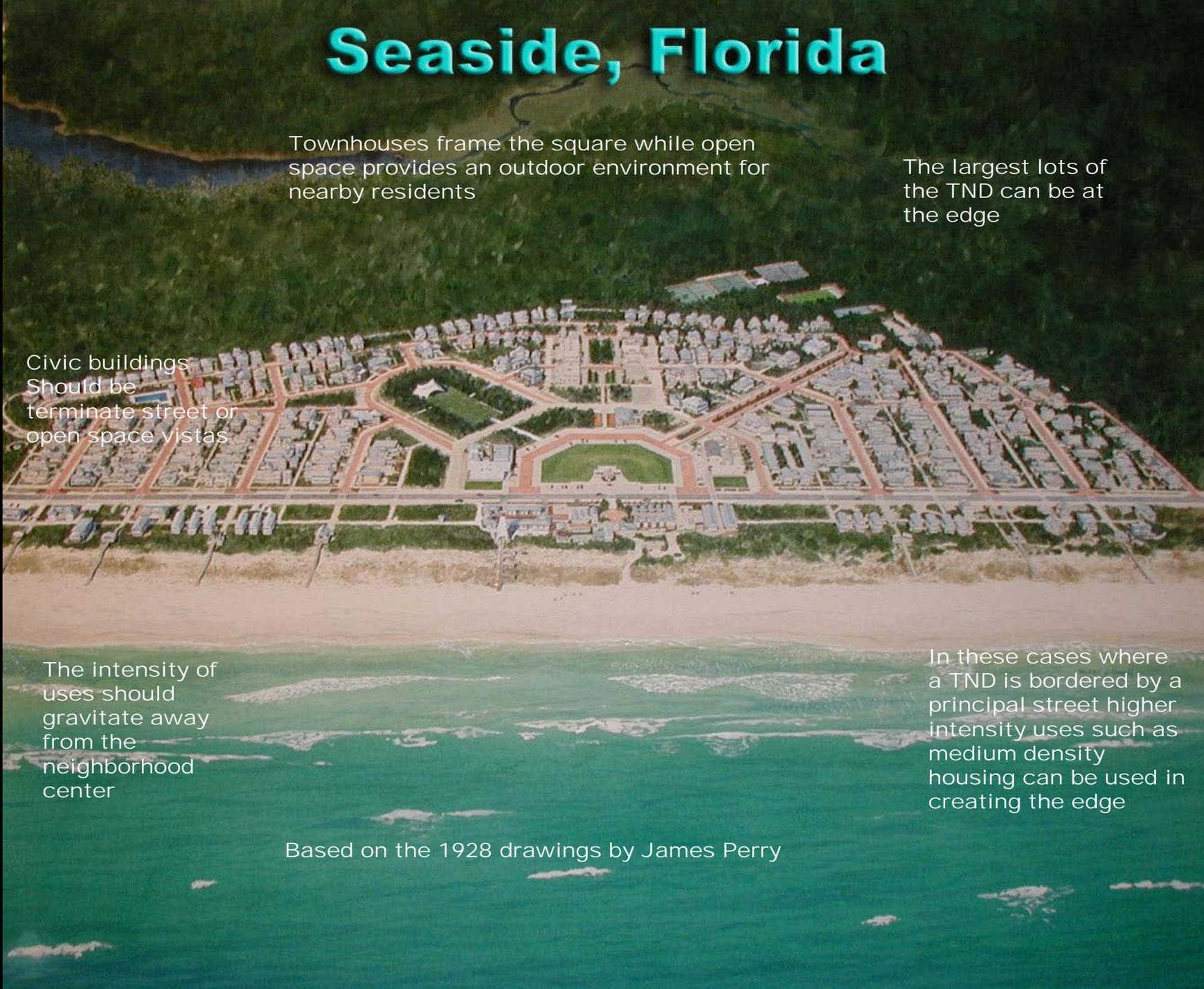
The largest lots of the TND can be at the edge

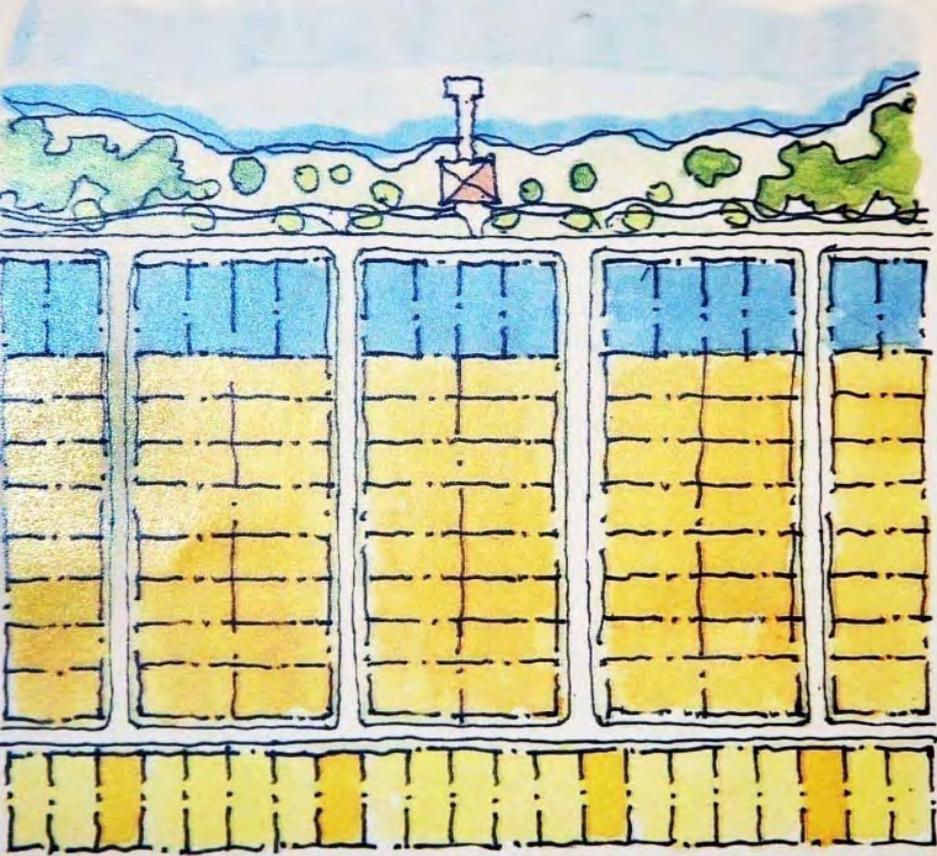
Civic buildings
Should be terminate street or open space vistas

The intensity of uses should gravitate away from the neighborhood center

In these cases where a TND is bordered by a principal street higher intensity uses such as medium density housing can be used in creating the edge

Based on the 1928 drawings by James Perry





If Cities are to reduce auto-dependence a working alternative should include:

Developers no longer block access to those places people want to reach.





OPEN

GUINNESS

HAPPY HOUR
4-7pm
\$3.00 CARLSBERG
\$4.00 HARPETH
\$5.00 IRISH COFFEE
MUSIC AT 9pm

NADER

We All Live Downstream

Just Life to Life

It's VIP!

HAPPY



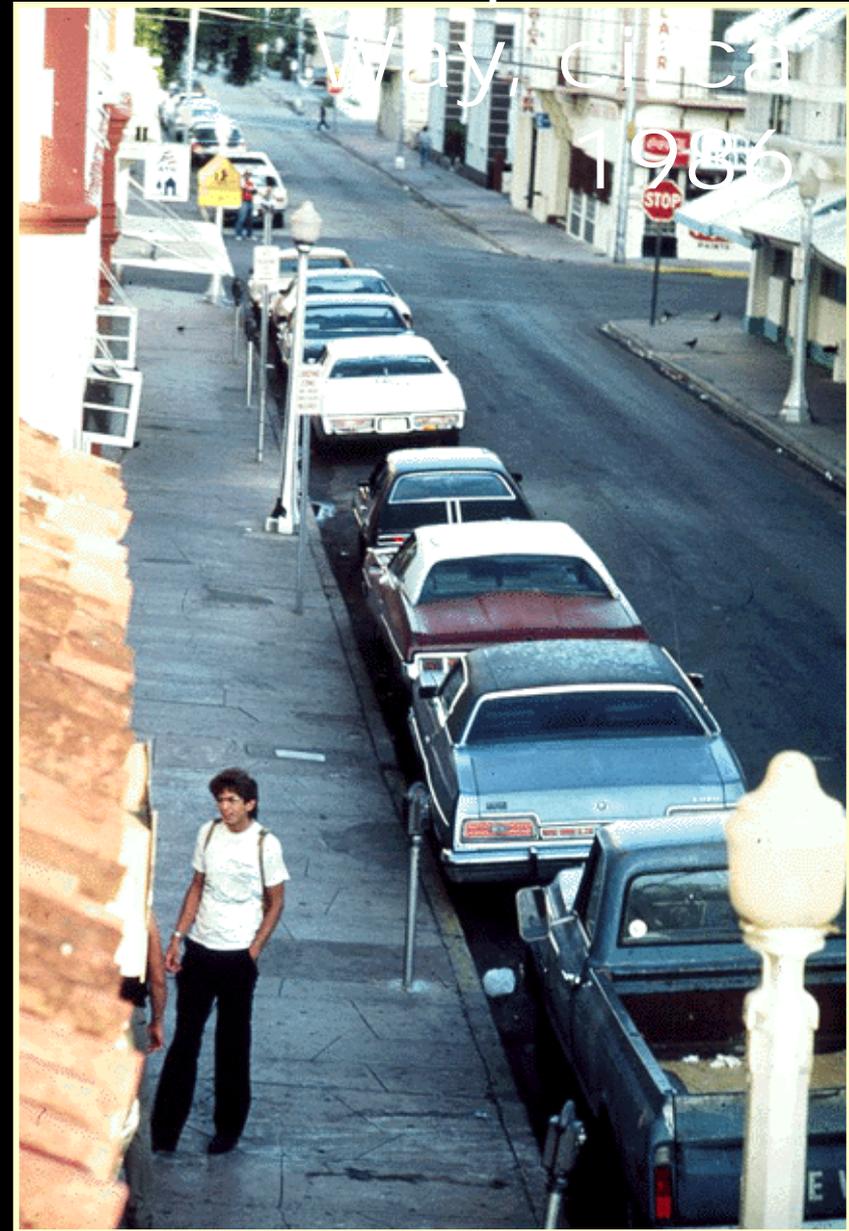


Before and After



Espanola

Way, circa
1986





ROAD
CLOSED

SIDEWALK
CLOSED

RO
CL



Española Villas

NO PARKING
BEYOND
THIS POINT
OR WITHIN
10 FEET
OF ANY
SIDEWALK

NO
PARKING
ANY
TIME

PRADO

PRADO

SIGLAIR

DESIGN
505.554.8200

PLA

9



CITY OF MIAMI BEACH
PUBLIC WORKS DEPARTMENT

ESPANOLA WAY STREETSCAPE
PROJECT COST
\$259,600

MAYOR: David Dermer
COMMISSIONERS: Matti Herrera Bower
Simon Cruz
Luis R. Garcia, Jr.
Saul Gross
Jose Smith
Richard Steinberg
CITY MANAGER: Jorge M. Gonzalez

General Contractor
F.H. Paschen, SN NIELSEN

Funding By:
2003 Transit Surtax (PTP) Funds



Principles

Principles

Not Walkable

High Car Dependency

Serious Congestion



Walkable

Low Car Dependency

Moderate Congestion



Ten Steps To Walkability

Compact, lively town center

Low speed streets, distributed volumes

Fine grained streets, many trails, transit links

Neighborhood schools and parks, within one quarter mile or one eighth mile



Public places with inviting features: benches, restrooms, shade, water and art

Convenient, safe and efficient crossings

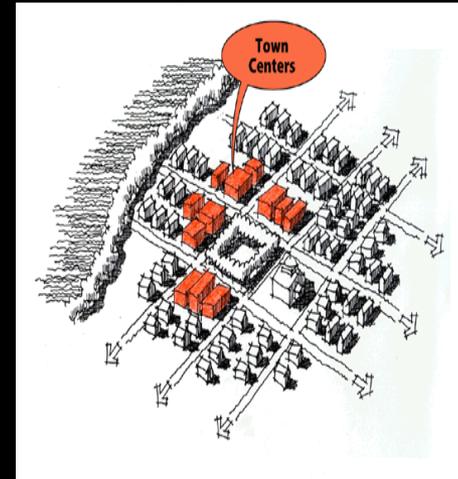
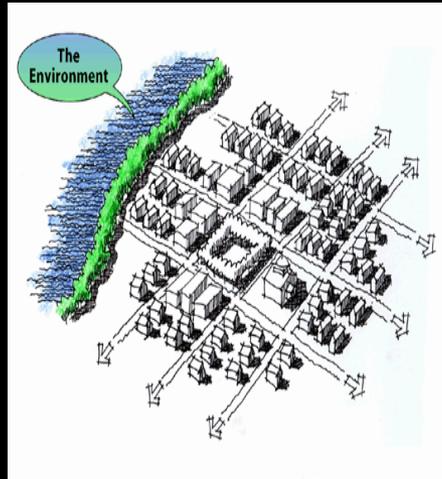
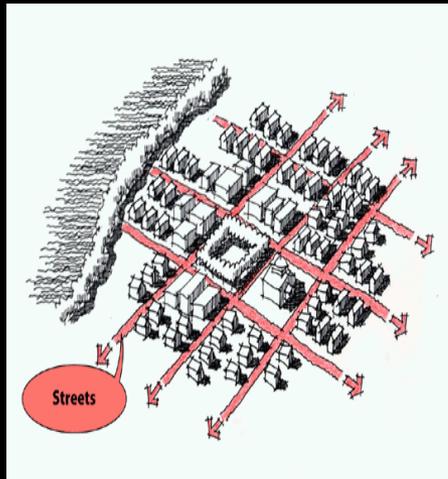
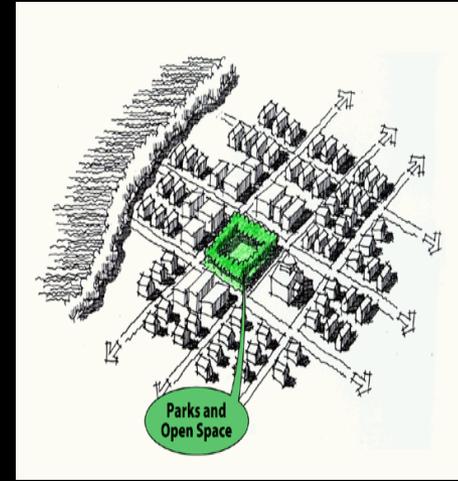
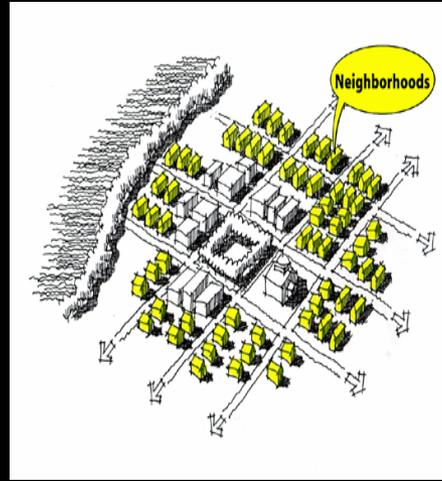
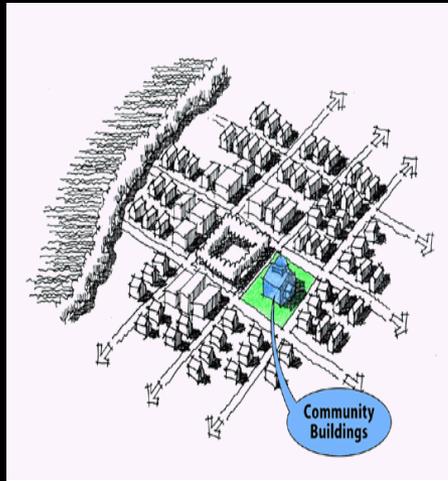
Many people of all ages and abilities walking many hours

Celebrated public space and public life, parades, markets, festivals, awards

Land use and transportation partnerships

Affordable, inspiring, well maintained streets and homes.

Comprehensive Approach



Town making is based on a comprehensive, collaborative approach, using all arts, sciences and services to design communities for "people first."



Personal choices of where to sit or recreate are not accidental. Balance of sun and shade are determinant in active and passive activities. In warm climates like Florida, shade is a critical asset to the comfortable year round use of a space.

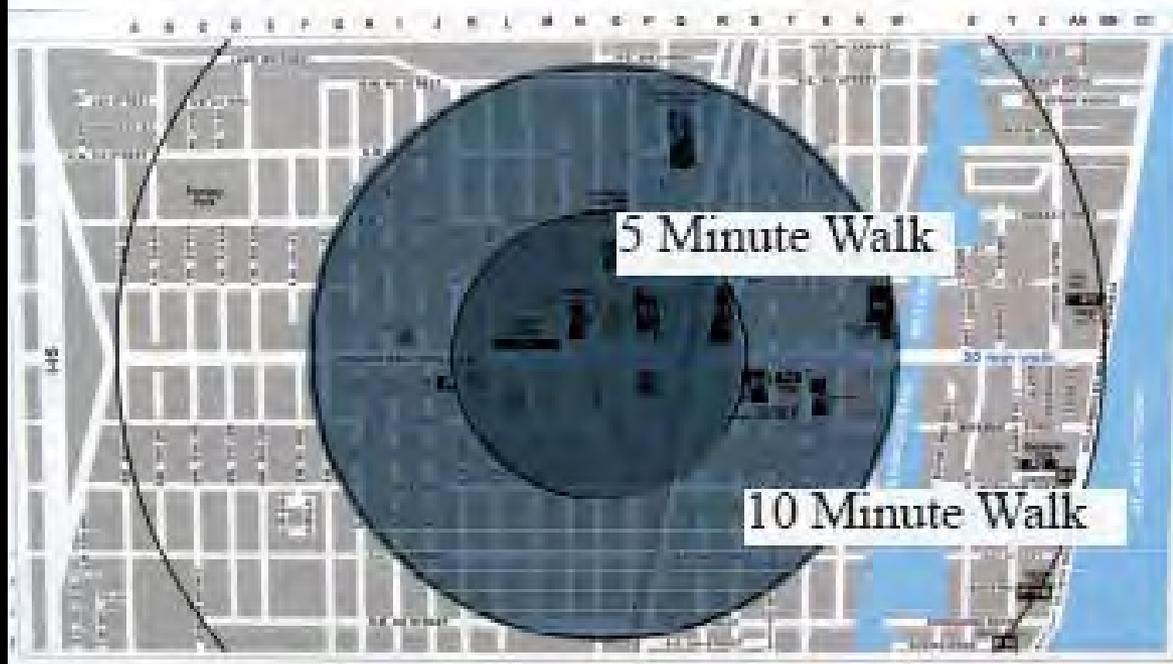


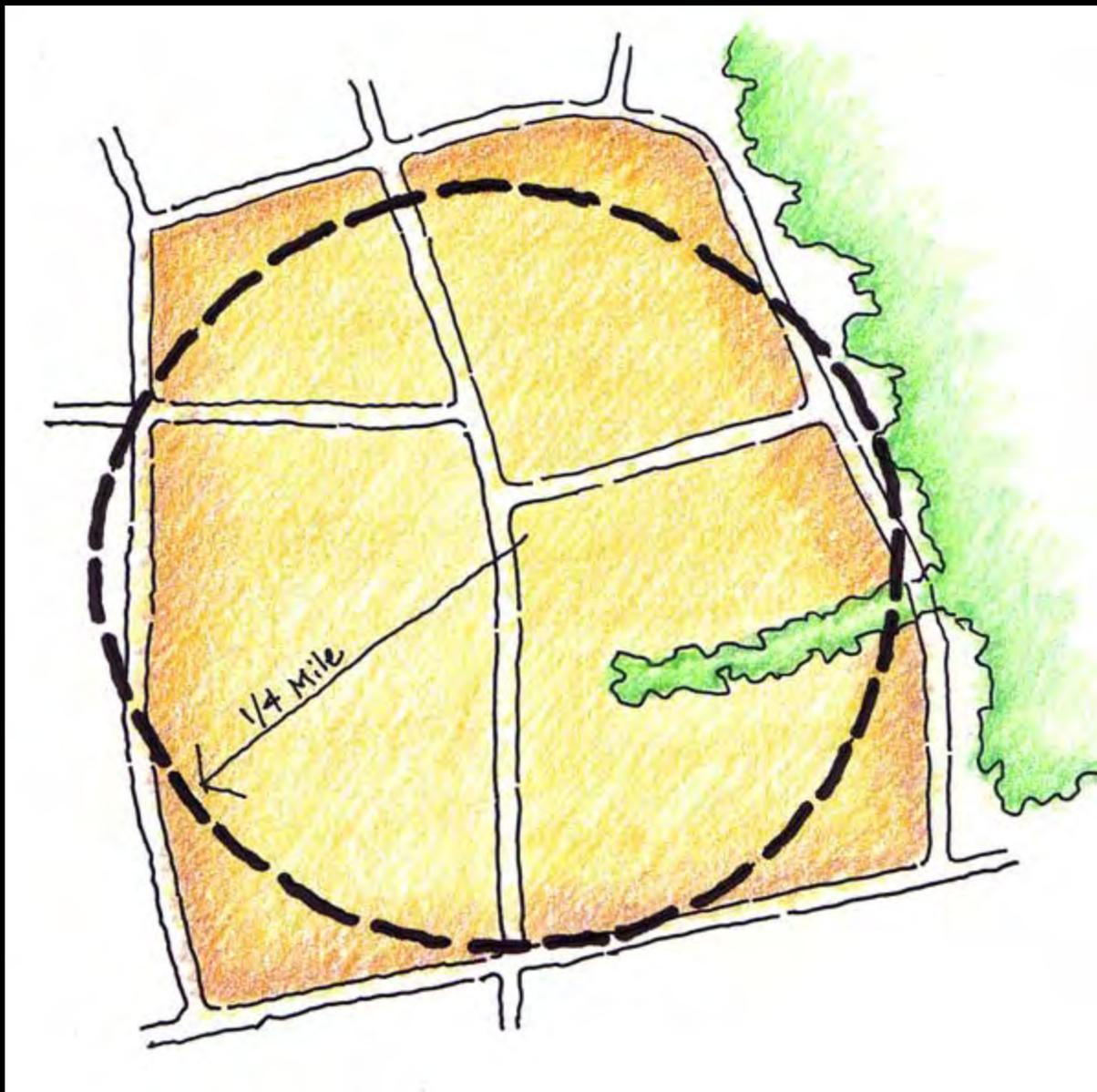
Why did this person choose this spot?



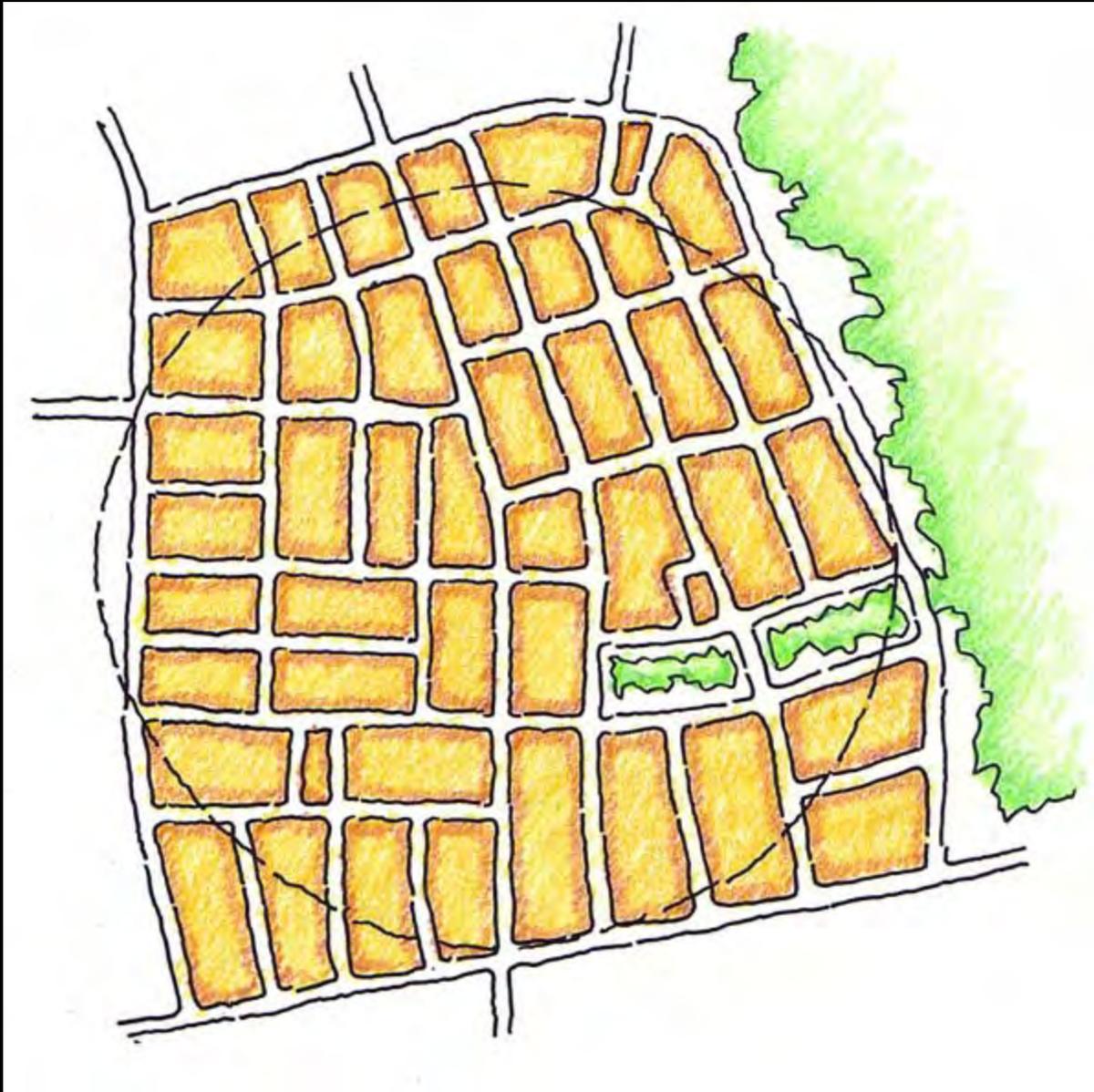
Why are these the only three empty tables at this restaurant?







size
neighborhoods for
a 5-minute walk



Make blocks a walkable size:

block perimeters of 1,500' to 2,000'

create a connected network of streets



Design for a mix of land uses:

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

Mixed Use

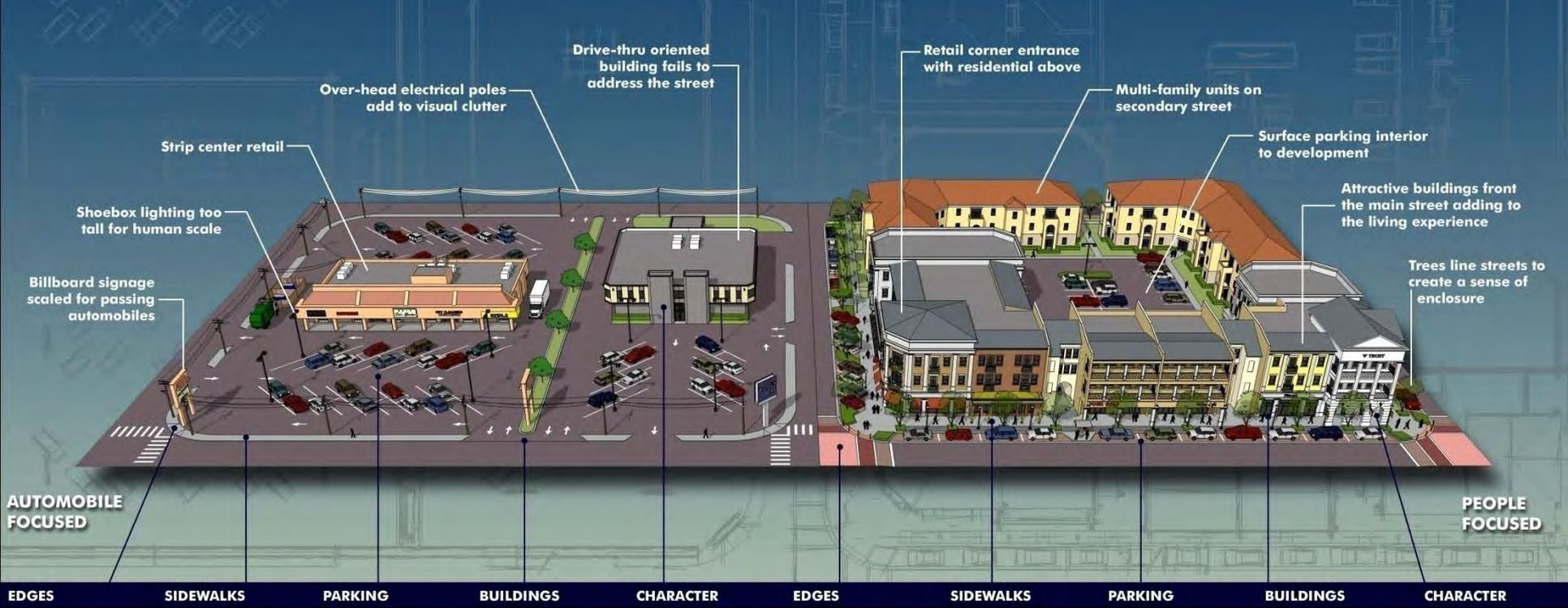
MIXED USE



If Cities are to reduce auto-dependence a working alternative should include:

Buildings no longer "moon" the street





THE LITTLE CORNER STORE



CORNER STORE
COCA COLA

LOTTO

DRINKING WATER

PEPSI

Coca-Cola



448864

STONE WY N

WALDINGFORD
BANNER
PROJECT

FREMONT
SUNDAY
MARKET

SEP 29 - OCT 1

Ballard



callisto
3881 Phinney Ave N
360.222.2222

NO
PARKING
ANY
TIME

821-PP0





Aiki Market

2820

Fresh Produce

Fine Wine

Aiki Market





Source: Fisher & Hall Urban Design

Once we understand the context of a place, its history, its culture, its climate, its topography, its land settlement patterns, then we can start the design process in earnest.

Now that we know the new land use, we can design the street!

Petaluma, California





Fargo, North Dakota



Fargo, North Dakota



764

764

752HMY

7C05E



These are Cottages?





Such places do not sprout by happenstance. Driven by irresistible economic forces and shaped by subtly shifting social patterns, they are being created, down to the tiniest detail, by a handful of major developers with a master plan for the new America.
.... NY Times, August 15, 2005

Exclusionary Zoning Workforce Housing

In about half of central Ohio's suburbs, those who teach the children, patrol the neighborhoods and put out fires can't afford to live among the people they serve.

Exclusionary: any community that did not allow for more than 8 residential units per acre.



Exclusionary Zoning Workforce Housing

"Granville will never allow it to happen," said Officer Keith Blackledge. He and fellow officers have tried for two years to unionize their department to get higher pay, perhaps enough to enable them to live in the Licking County village 35 miles east of Columbus.

"Police officers in any neighborhood are going to be good for everyone," said Officer Jon Davis. "Just having them there will improve the quality of the neighborhood."





1550 feet from THE CHEERS BAR, 6 other bars, 8 deli's, 4 banks, 3 hardware stores, 2 florists, 18 restaurants, 5 churches, grocer, pharmacist, medical and dozens more.

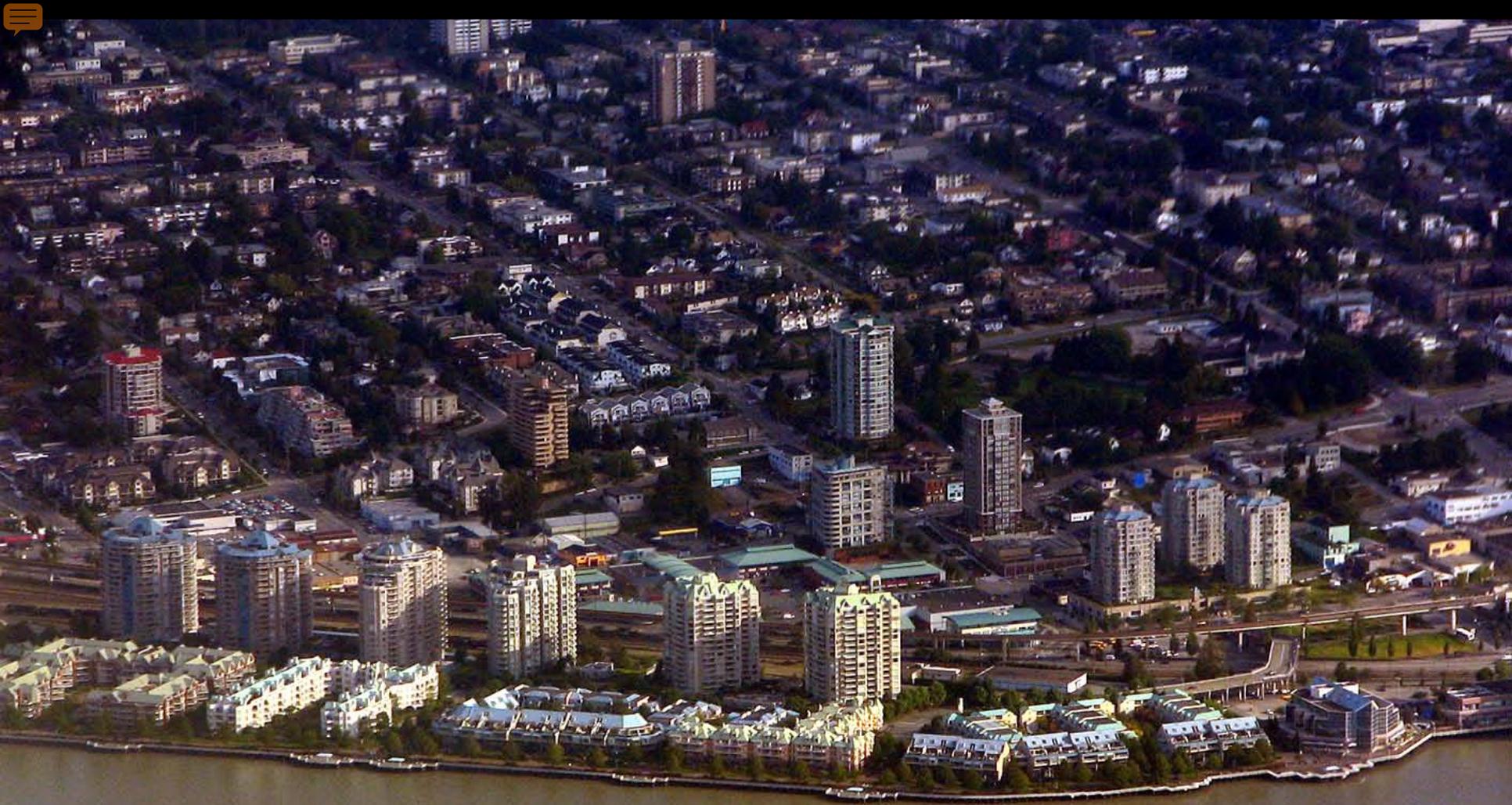
1550 feet from
NOTHING

Orlando, Florida









Vancouver now has so much density that there is no comparison until you travel to Asia ... to Beijing, Hong Kong, or Tokyo.

As Vancouver has built itself into the one city in the "Most Livable City in the World" ... Vehicle Miles Per Day (VPD) is declining. Registered car ownership is also declining

Virtually all growth occurred in brown fields, industrial yards, old rail yards. Virtually all former single family homes are still in place. Loved, cared for, and worth a heck of a lot of money





DENMAN

P

STOP

DENMAN







**Many Eyes
on the Trail**



**Different
Elevations**

**Buildings
Are Tiered**

**Full Public
Access**

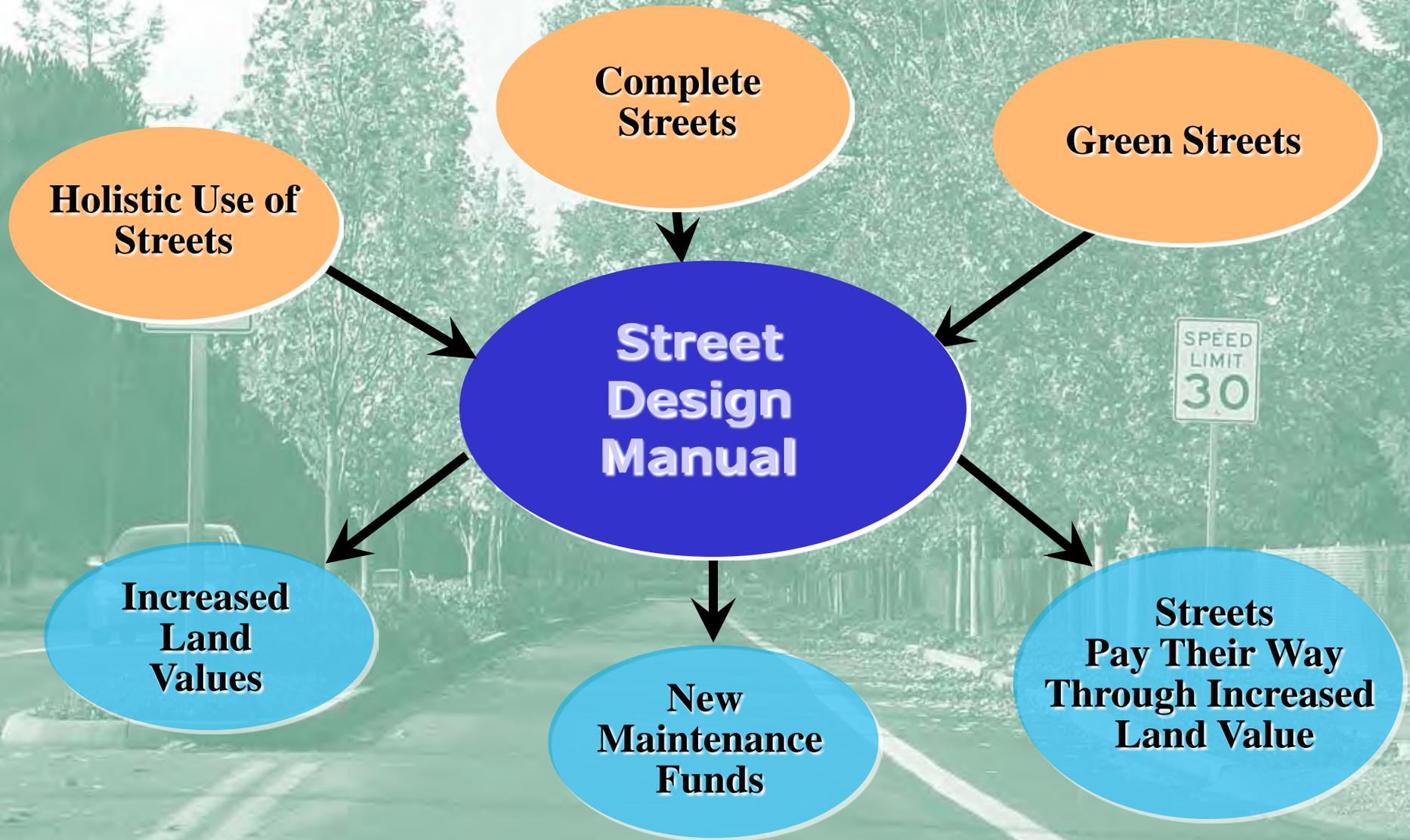
**Quality
Edges**



Complete Streets



Purpose





Highway 93, Missoula, Montana

USA

Canada

Marine Drive, Dundarave, B.C.





Marine Drive, Dundarave, B.C.



GOLDEN, COLORADO

AMERICA'S NEWEST

WALKABLE COMMUNITY



Pioneer Historic Park



Whitewater Slalom Run



Interactive and Child Friendly



Traffic Calmed



People Friendly Crossings



Intact Town Center



Trails and Walkways



Main Street Reinvestment









**Where There's
Opposition
There Needs To
Be Courage**



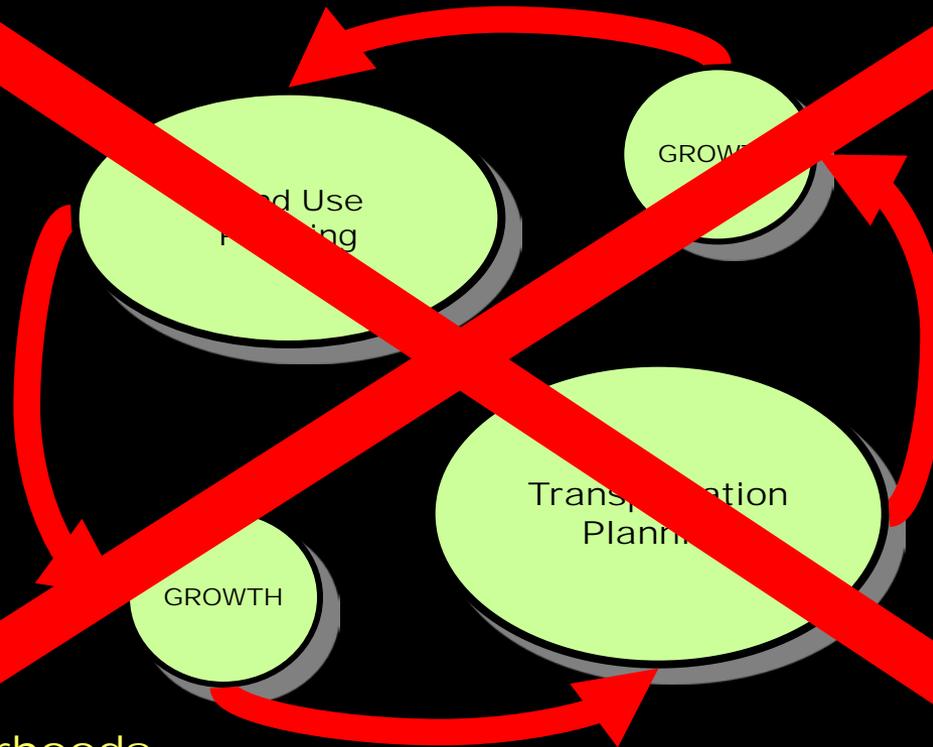
The Cycle of Strip Development

INPUTS

- Auto-oriented Business
- Single-Family Zoning
- Single-Family Residential

OUTCOMES

- Wide Roads
- Isolated Traffic
- More Traffic



OUTCOMES

- Isolated Neighborhoods
- Multiple Automobile Trips
- Poor Mobility
- Difficult Walking

INPUTS

- Traffic Demand Forecasting
- Congestion

Breaking The Cycle of Strip Development

INPUTS

- Diversity of Business
- Mixed Use Zoning
- Diversity of Residential Units
- Context Sensitive Solutions
- Community Involvement



OUTCOMES

- Healthy Neighborhoods
- Choices of Transportation
- More Open Space
- Sense of Place
- Sense of Community
- Age-in-Place Friendly

OUTCOMES

- Increased Mobility
- More Walking & Bicycling
- Increased Access
- Sustainable
- Prosperity



Every man must decide whether

he will walk in the light of creative altruism

or the darkness of destructive selfishness.

Martin Luther King, Jr.

