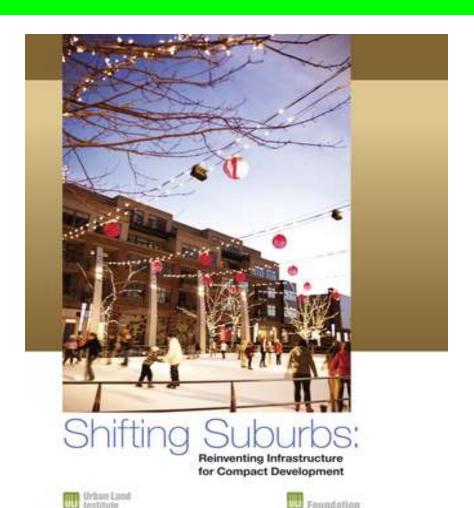


# Northeast Tarrant Transportation Summit

© Ed McMahon, ULI Fort Worth, TX February 17, 2017

### **Urban Design and Transportation**



- High quality infrastructure is a key driver of real estate investment.
- Upgrades to public transportation are the top priority of real estate developers and investors.
- Residents of walkable, mixed use communities drive almost 30% less than those who live in autooriented settings.
- The transportation landscape is changing.

### Design around Cars = More Cars



Design around People = More People And better places!

### Walkable Places Create Real Estate Value

- Numerous studies show that the demand for walkable, mixed use design far outstrips current supply
- There is a growing demand for urban/small town/village living especially among retirees, empty nesters, young professionals and single people.



# Walkability Boosts Value

### Walkable, Compact Neighborhoods

- **Promote Health** the average resident weighs 6-10 lbs. less than residents of car dependent neighborhoods.
- **Save Money** Transportation is the 2<sup>nd</sup> largest household expense.
- Foster Connection Studies show that every 10 minutes spent in a car commute reduces time spent in community activities by 10%

- Increases Value Every one point increase in Walk Score equates to a \$700 to \$3000 increase in home value.
- Provide Commercial Premiums
  - A new study by Real Capital Analytics (RCA) shows significantly greater appreciation for commercial properties in "highly walkable locations" over "car dependent locations" (125% appreciation vs. 22%).

### Walkable Communities



Lower Downtown Denver



Old Town Alexandria, VA

- In all 30 of the largest US metro areas, the <u>majority of new real estate</u> <u>development is occurring in walkable</u> <u>urban neighborhoods.</u>
- On average <u>rents are 74 percent higher</u> in walkable neighborhoods than comparable space in driveable suburban locations.
- Office properties 90% higher
- Retail properties 71% higher
- Multifamily rental 66% higher

Source: Foot Traffic Ahead; Ranking Walkable Urbanism in America's Largest Metros, George Washington University School of Business, 2016



Reston, Virginia



Sterling, Virginia

"Walkable suburban real estate can command value premiums of 25% to 100%."

Source: PUMA's Global Trends Report, 2014

### Which one is More Profitable?

Rockville, MD

Bethesda, MD



One-Story Building Lots of parking in front of building Single Use Neighborhood



Multi-Story Building
No parking in front of building
Mixed Use neighborhood

## Which one is more profitable?



Rockville Pike

### 1 Way to get here:

Drive your car



Downtown Bethesda

### 4 Ways to get here

- Drive your car
- Take Metro
- Ride your bike
- Walk

# Place Making Dividend

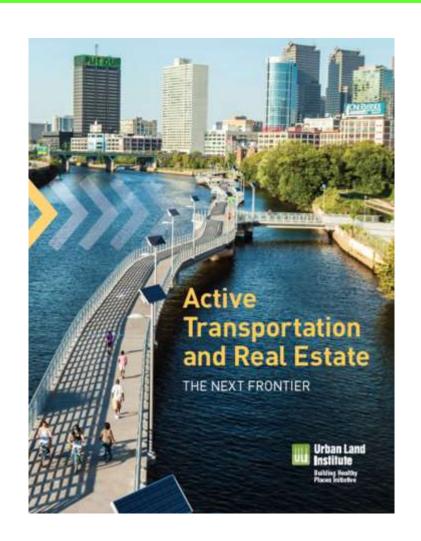


People stay longer, come back more often and spend more money in places that attract their affection.

# Transportation is Changing!

The transportation landscape is changing.

- Bike/Ped Infrastructure, Mobility Sharing and Autonomous Vehicles will have a big future impact.
- Bicycle infrastructure is relatively cheap and is catalyzing real estate investment just as other forms of infrastructure investment have done in the past.



# **Shared Use Mobility**



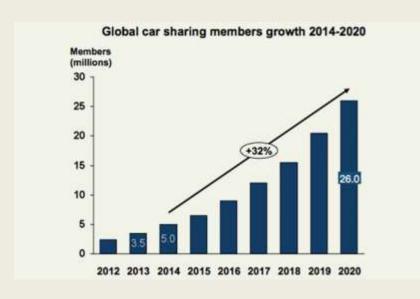


- Ride Sharing
- Car Sharing
- Bike Sharing
- Uber/Lyft
- Taxis /Limos
- Autonomous Vehicles

"Like the smartphone, which you lived without until about a decade ago and now can't imagine living without, future mobility innovations will quickly change from unanticipated to indispensable."

George Will – March 23, 2016

# Car Sharing





- Car share membership is growing by 32 percent a year.
- Millennials have embraced the sharing economy.
- Research shows that when it comes to transportation millennials think that having "mobility options" is more important than car ownership.
- Sources: Berg Insight, Frost & Sullivan, 2016

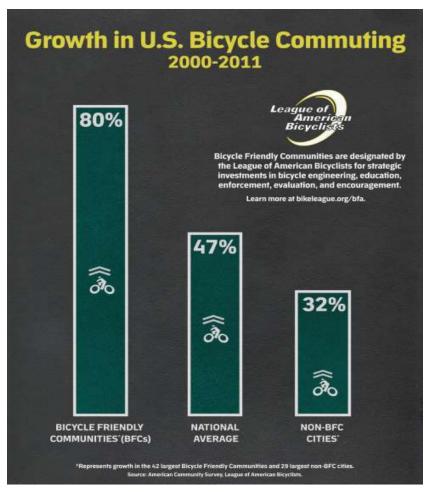
# Capital Bikeshare - DC



- System started in 2008 with 10 stations and 120 bikes.
- In 2016 there were 429 stations and 3700 bikes.
- Today there are an average of 5700 rides per day.
- Annual ridership exceeds 2,100,000

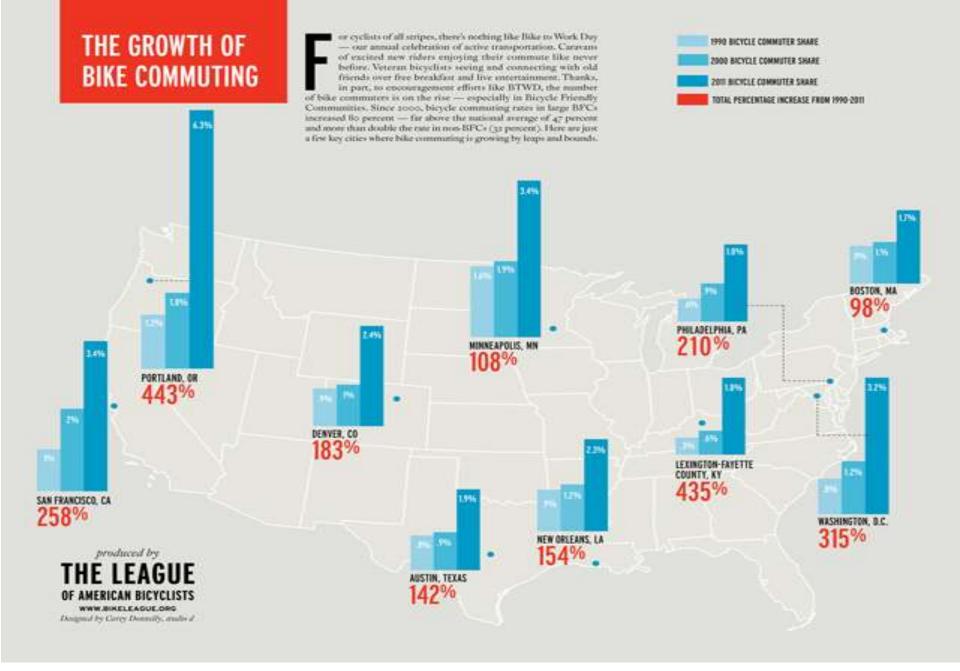
In 2002 there were 7 bike share programs worldwide. Today there are 750, including 119 in the US.

# Bicycling is Booming!





Cycling is America's fastest growing form of transportation



Cycling is growing fastest in communities that invest in cycling infrastructure.



Investments in roads and highways led to **Auto-Oriented Development**.

Investments in public transportation led to **Transit-Oriented Development** 

# **Investment in Bicycle Infrastructure is now leading to Trail Oriented Development**



# Bicycle Infrastructure Provides Bang for the Buck







- Bicycle infrastructure is relatively inexpensive.
- Portland, OR has developed a 300 mile network of bike trails, bike lanes and bike boulevards for about the same cost as 1 mile of urban freeway).
- Investments in bicycle infrastructure have high levels of return on investment.
- Dare County, NC (i.e. the Outer Banks) says that a one-time investment of \$6.7 million on bike infrastructure has resulted in a 9-to-1 annual return.

# Cost of 3 San Francisco Transportation Projects

Protected Bikeway (1 mile) - \$445,000



Doyle Drive (1 mile) - \$571 million



• Bay Bridge East Span (1 mile) - \$2.07 Billion





### More Walking & Biking = Less Parking

- There are over 800 million parking spaces in the US.
- **Surface parking** costs \$3000 to \$4000 per space.
- Structured parking costs \$15,000 to \$20,000 per space.
- Underground parking can cost up to \$50,000 per space



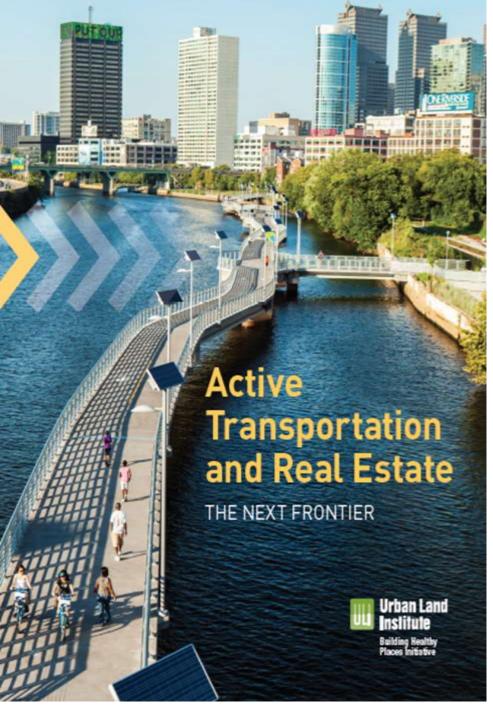
- People who live in walkable, mixed use settings drive less than those in auto-oriented settings.
- **12 Bicycles** can be parked in the same space as **one car**.
- Bicycle parking costs a small fraction of vehicle parking.
- Many cities are reducing vehicle parking requirements in TOD & mixed use settings.



### Silver Moon Lodge – Albuquerque



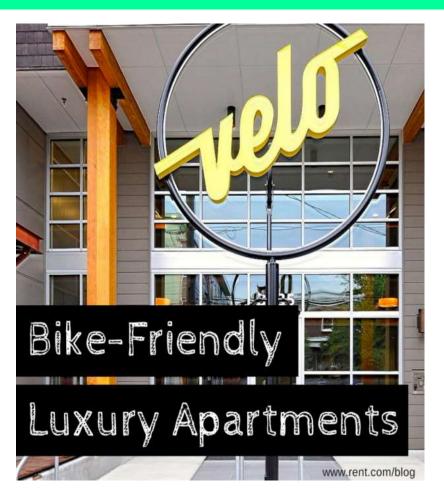
- Silver Moon Lodge has 154 apartment units, but only 23 car parking spaces.
- It was able to reduce construction costs associated with car parking by providing bike parking and car share facilities.
- Over 95% of units are occupied because the building is in a walkable and bike-friendly neighborhood.



# Real Estate Development Projects

- Bici Flats, Des Moines, IA
- Circa, Indianapolis, IN
- Flats at Bethesda Row, Bethesda, MD
- Gotham West, New York, NY
- Hassalo on 8<sup>th</sup>, Portland, OR
- MoZaic, Minneapolis, MN
- Ponce City Market, Atlanta, GA
- Silver Moon Lodge, Albuquerque, NM
- 250 City Road, London, UK
- Westwood Residences, Singapore

### What is a Bicycle-Friendly Building?



- Bicycle Parking
- Bike Storage
- Easy Access
- Wider Hallways
- Repair Station (tools, air pump and bike stand)
- Showers & lockers (in commercial buildings)
- Community gathering spaces
- Bike share station

# Trail Side Development

Monon Trail
Carmel, Indiana





The Carolina's Health Care
System located its
headquarters complex
adjacent to Charlotte's Little
Sugar Creek Greenway so
that employees would have a
place to run, walk or cycle







Daybreak, a large masterplanned community in Salt Lake City includes extensive infrastructure for bicyclists and pedestrians.



Daybreak also has a new light rail station which connects to Downtown Salt Lake City.

70 percent of the children in Daybreak walk or ride a bike to school.

# Indianapolis Cultural Trail



#### **Trail Facts**

- 8 miles in length
- 6 Cultural Districts Connected
- \$63 million Cost
- \$27.5 in private funding
- \$35.5 in public funding
- \$864 million estimated economic impact
- 11,372 jobs created
- Property values within one block of trail rose 148% in six years, between 2008 and 2014

Source: City of Indianapolis

## Indianapolis Cultural Trail



Separate Lanes for pedestrians and cyclists

Property values adjacent to the trail have risen 148% since the trail opened in 2008



# Circa

**Indianapolis IN** 

**Developer** – Milhaus

**Project Type** – Multi Family

**Building Size** -265 units, 295,000 sq.ft across six buildings

"The Indianapolis Cultural Trail adds tremendous value to Circa and has been the most transformative infrastructure investment in downtown in the last 10 years."

Jake Dietrich, Milhaus



#### **Active Transportation Features**

- Bicycle storage
- Complimentary bike-share service
- Bike workroom
- Bike washing station

### Midtown Greenway - Minneapolis



- Called America's 1<sup>st</sup> Bicycle Freeway
- 5.5 miles in length. Cost \$36 million
- Separate lanes for cyclists and pedestrians.
- Usage Up to 5,380 cyclists per day.
- Has rest stops, repair stations and trailside cafes.
- 13 new multi-family projects built adjacent to trail: a total of \$750 million in new development.

# Midtown Greenway - Minneapolis



### **Shared Themes Among Development Projects**

- Trails, bike lanes, bike share stations and/or sidewalks add value to real estate projects.
- A market for bike friendly features in residential & commercial properties exists and is growing.
- Relatively small investments in bike friendly amenities can lead to improved returns.
- A reciprocal relationship exists between public and private sectors in terms of maximizing investments in active transportation infrastructure



### The US Infrastructure Dilemma?

- Despite continuously adding lanes and capacity, urban highways in many metro areas are more congested than ever.
- The Highway Trust Fund can not keep pace with funding needs because of improved fuel efficiency and because people are driving less.
- Surveys show that Americans support high quality infrastructure, but there is little agreement on how to pay for it.
- Bicycling & Mobility Sharing are growing fast, are relatively cheap and are catalyzing real estate development just as other forms of infrastructure have done in the past.







# **THANK YOU!**