



**NEXT CITY**

**PERFORMANCE & ASSET  
MANAGEMENT 2.0**

*NASTO Plenary Session #5*

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[www.nextcity.org](http://www.nextcity.org)

**NEXT CITY**



Mission: To inspire social, economic and environmental change in cities through journalism and events around the world.

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# NEXT CITY



- ❑ Daily online coverage of leaders, policies & innovations driving progress in metropolitan regions across the world
- ❑ Award-winning longform content
- ❑ Events include an annual urban leadership conference, Vanguard



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“The Future Ain’t What It Used To Be.”  
Yogi Berra





## ALL TRENDS POINT TO CITIES & TOWNS

- SOCIAL
- ECONOMIC
- ENVIRONMENTAL

## ALL TRENDS POINT TO CITIES & TOWNS

- **SOCIAL (World Urban Population)**

- 1976 Habitat I 37.9%
  - 1996 Habitat II 45.1%
  - 2016 Habitat III 54.5%
- (UN Habitat)

*By 2050, 4 out of 5 people around the world  
will live in cities and towns*



## ALL TRENDS POINT TO CITIES & TOWNS

- **ECONOMIC**

- Corporations moving to cities
- 3 Largest Demographic Groups choosing cities and towns
  - Aging Baby Boomers
  - Millennials
  - Immigrants



## ALL TRENDS POINT TO CITIES & TOWNS

- **ENVIRONMENTAL**

Bicyclists in Philadelphia ride 260,000 miles daily, saving 47,450 tons of CO2 from being emitted by cars each year.

*Bicycle Coalition of Greater Philadelphia, 2008*

- [Double Dutch: Bicycling Jumps in Philadelphia](#)



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### NEWS YOU CAN USE

Transit Evolved – eBook

The Future of Street Design -- eBook

Resilience/Sustainable Design

Aging Infrastructure

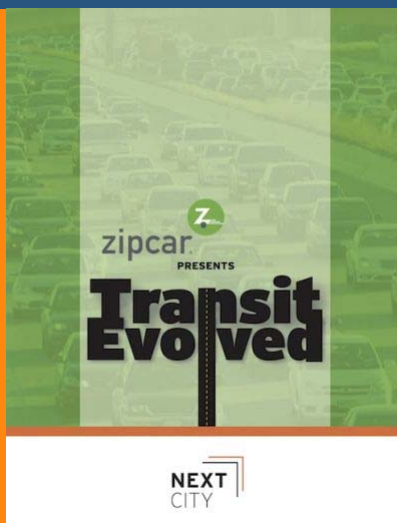
Equity

Vanguard

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## Transit Evolved



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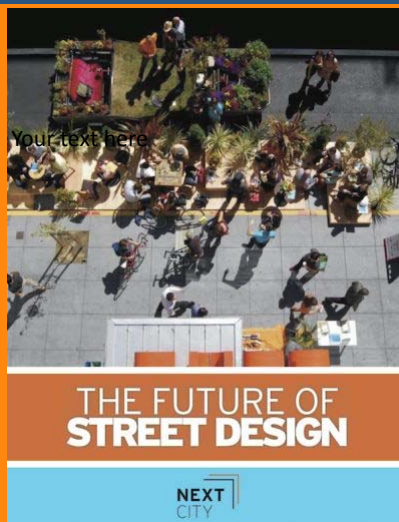
## Transit Evolved

- **New Mode Choice Model Helps Officials Make Stronger Case for Transit Improvements**
- **U.K. City Is Designing a Future of Fewer Cars -- By Focusing on Roads**
- **One Clue You're a Millennial: You're Reading This**
- **There's Now a Formula for the Chaos of Your Commute**
- **Streets Experiments Made This City Engineer a Celebrity Bureaucrat**
- **Whither the Driverless Car?**
- **Good, Successful Urbanization Takes Time**
- **Google's Sidewalk Labs and U.S. DOT Team Up on Traffic Data**
- **Hacking Public Space With the Designers Who Invented Park(ing) Day**
- **New Big Data Tool to Show How and Why We Move Around Cities**

# The Future of Street Design

•FREE

The lifeblood of a place courses through its streets. Today, we demand more and more from these arteries — space for multiple modes of transport, a place to sit and a spot to lock a bike. Space to move safely and without collision. This ebook considers the art and science of why and how.



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## The Future of Street Design

- **Memorable Streets Draw More Pedestrians**
- **The Case for Changing the World by Changing Street Design**
- **How Street Design That Embraces Failure Can Succeed**
- **New Portland Plan Addresses Walksheds and Watersheds Together**
- **Do Taller Buildings Have to Mean Darker Streets?**
- **How Technology Is Changing Street Surveying**
- **Hacking Public Space With the Designers Who Invented Park(ing) Day**

## Reshaping Cities Through Information & Experimentation



[Sidewalk Labs and Transportation for America Team Up on “Smart Streets”](#)

[Ferry Powered by the “Internet of Things” Pursues a More Efficient Ride](#)

<https://nextcity.org/column/scienceofcities>

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## New Thinking

- [Planning Method Offers Way to Prioritize Pedestrian, Bike Projects](#)
  - **Safety** — frequency and severity of crashes involving pedestrians and cyclists
  - **Safety effectiveness** — reduction in the frequency and severity of crashes
  - **Mobility** — the contribution the improvement makes to overall bike/pedestrian access
  - **Demand** — likelihood that pedestrians and bicyclists will use the facility
  - **Equity** — the degree to which a project improves mobility for less privileged areas
  - **Cost** — capital, operating and maintenance costs over the lifespan of the improvement
  - **Qualitative factors** — intangible factors derived from opinions of local experts

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## New Thinking

- [Disruption Is the Norm in the Persian Gulf](#)
  - Aerotropolis
  - PRT
  - Women, Youth & Happiness Rule
- [Philly Transit Agency Makes Money-Saving Power Move](#)
  - SEPTA's regenerative braking system



## Resilience

[New Mode Choice Model Helps Officials Make Stronger Case for Transit Improvements](#)

[New Houston Flood Czar Wants Everyone to Remember the Storm](#)

[Preparing for Disaster With the City Resilience Index](#)



## Sustainable Design

[The Science of Building Better Bridges](#)

**Accelerated Bridge Construction**

[Edinburgh Aims to Fix Cobblestone Street Repair](#)



## The Future of Resilience

**Keeping an (Advanced) Eye on Resilience**

**New U.K. Lab Re-Creates Real-World Disaster Scenarios**

**From Boston to Melbourne, Cities Will Continue to Lead on Climate Change Resilience**

<https://nextcity.org/column/futureofresilience>



## The Works: on infrastructure for a rapidly urbanizing world



<https://nextcity.org/column/theworks>

**Driverless Bus Testing  
Coming to Bay Area**

**Back to the Drawing  
Board for Dublin  
Metro**

**How One City Will  
Change Its Entire Bus  
System Overnight**

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## ROADS!

[The Case for  
Changing the World  
by Changing Street  
Design](#)

[Janette Sadik-Khan  
on Asphalt, Staten  
Island and the  
Adrenaline of  
Infrastructure](#)

*"I love the smell of  
asphalt, its acrid  
odor, its superheated  
shimmer and sticky  
texture as it tumbles  
from shovels and is  
flattened by screeds."*

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## Regional Mobility



(Credit: GoTriangle)

As U.S. cities revitalize their downtowns and look to attract both young professionals and businesses, quality transit remains atop many to-do lists.

<https://nextcity.org/daily/entry/north-carolina-cities-raleigh-regional-transportation-planning>

***Will N.C. Cities Embrace Regional Transportation Plan?***

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## Equitable Transportation

- [This Is What a Smarter 21st-Century Transportation System Will Look Like](#)
  - Leverage transportation investments to drive job growth
  - Put racial and economic equity at the center of investment decisions
  - Radically rethink decision-making processes to give communities a central voice



## The Equity Factor: community, justice & economic development

### [D.C. Taxi Boss Sees Benefits to Expanding What It Means to Be a Cab Driver](#)

“The misconception is that cabs and Uber or Lyft or private vehicles are natural-sworn enemies. That’s simply not true.... We have drivers who do trips for Uber and Lyft and do deliveries for Postmates. This is about income. It’s about expanding economic opportunities. We at the commission want to ensure that consumers have choice, [and] drivers get a fair shot at making a decent living.”

Besides, there are bigger challenges on the horizon. “Next year, it’s not going to be a driver competing with a driver. It’s going to be about a driver competing with an autonomous vehicle.”

<https://nextcity.org/column/equityfactor>



## Bike Equity



Oboi Reed started Slow Roll Chicago. (Credit: Slow Roll Chicago)

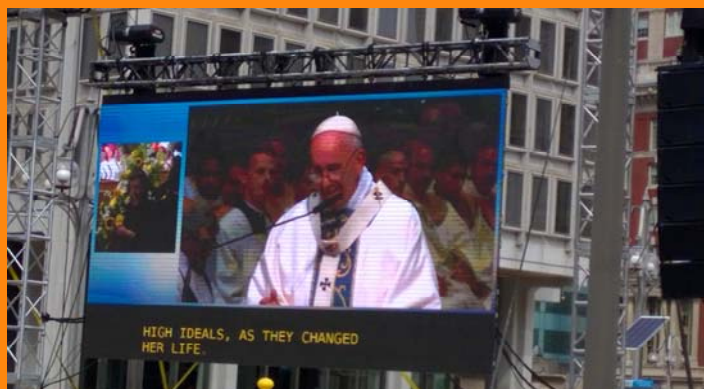
“If the U.S. can’t foster equity on two wheels, what hope is there for much more entrenched issues like fair housing and income equality?”

<https://nextcity.org/features/view/cities-build-bike-lanes-bike-share-bike-equity>

*Building a Bikeable City for All*



## NEXT CITY: Inspiring



*Laudato Si: On Care For Our Common Home*

“The quality of life in cities has much to do with systems of transport, which are often a source of much suffering for those who use them.”

**Pope to Urban Planners: Build Better Cities**

<https://nextcity.org/daily/entry/pope-message-urban-planners-cities-encyclical>



## Downtowns: The NEXT Big Thing



## Vanguard

### [Houston Gets a Transit-Oriented Development Spark](#)

In recent years, Houston has been straining against its reputation as a car-crazy city and rethinking neighborhood connectivity. The big Houston transportation story of 2014 was the opening of [three new light-rail lines](#), expanding on the success of the original Red Line through downtown to reach out to the East End, Southeast and Near Northside. In 2015, the [overnight overhaul of Houston's entire bus system](#) to better connect outer neighborhoods — without going through downtown — lapped up [headlines](#). This year, the completion of the [Houston Bike Plan](#) could start the process of making cycling safer and more complementary with bus and rail commutes....

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## Big Idea Challenge: Little Oasis

an idea for a 2,400-square-foot wedge of land on the Near Northside Houston that had been used to store equipment during the light-rail expansion

City Council Member Karla Cisneros says making light-rail stations more pedestrian friendly and better integrated into their neighborhoods was one of her priorities. “The stations are nice, you get off, but then what? They don’t connect to the neighborhoods at all.”

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## Big Idea Challenge: Little Oasis

install a lit, shaded structure with seating, bike racks and a bike repair station

While the design is modest, Cisneros has a bigger vision, hoping it will influence how other leftover parcels along the transit line will be developed

“pearls on a necklace”

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“You can observe a lot by just watching.” Yogi Berra



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