











Changing Streets to Change the World

NACTO | Global Designing Cities Initiative Auckland, NZ, March 2016

Skye Duncan

skye@nacto.org

@GlobalStreets

Help you to see the potential in the streets of Auckland



network of public space ...

more efficient use of this valuable space

Mobility and Access Environmental Sustainability Economic Sustainability Livability and Quality of Life Public Health and Safety





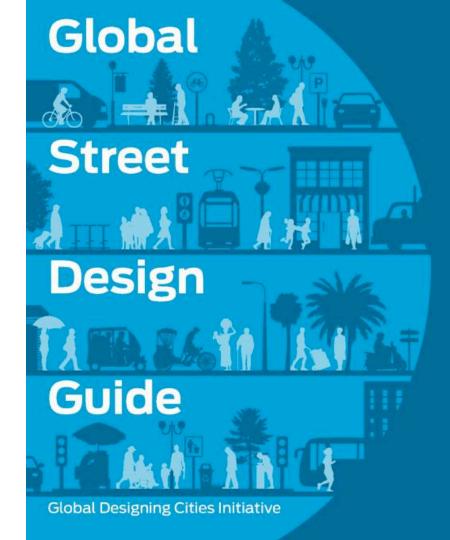
Bloomberg Philanthropies

Bloomberg Initiative for Global Road Safety

September 2014 announced: 2015-2019

\$125 Million

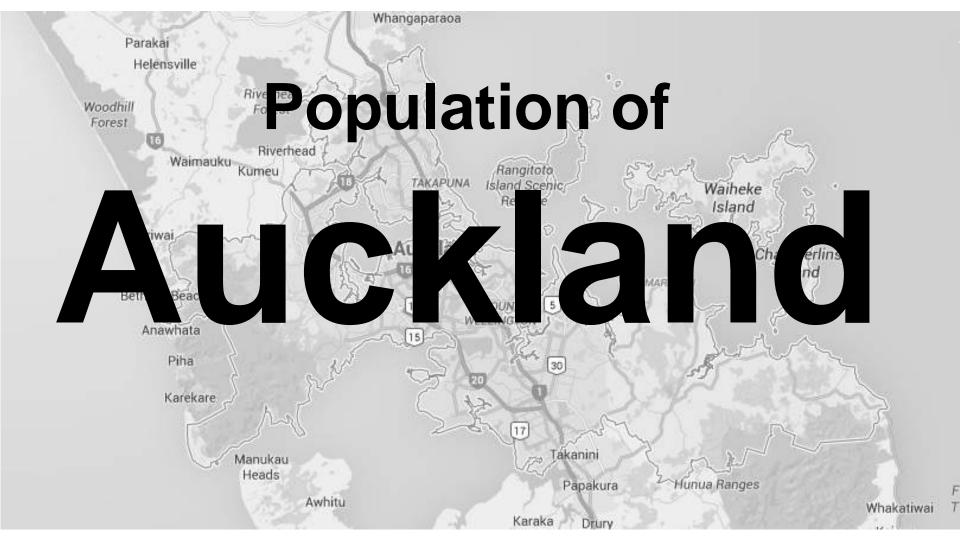


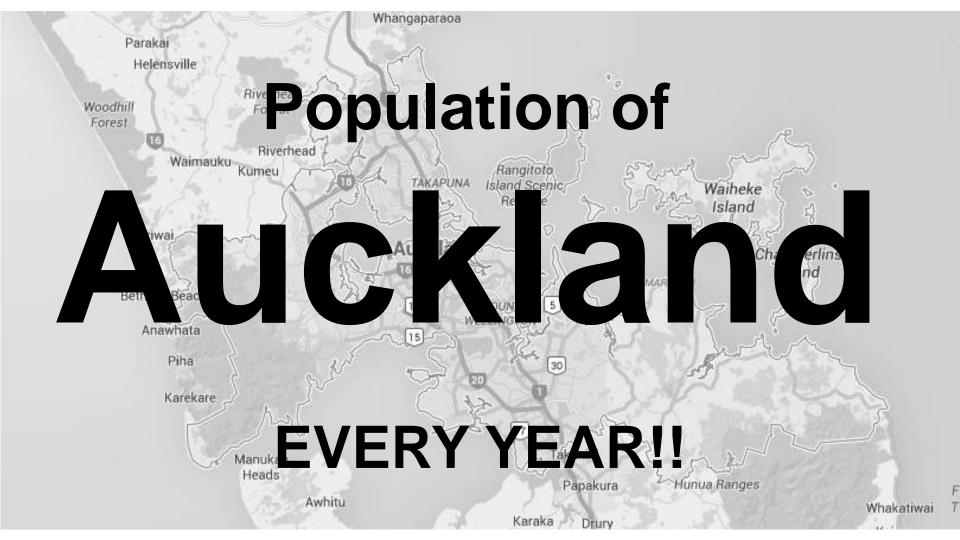












Global Leading Causes of Death

Today		2030	
Rank	Disease/Injury	Rank	Disease/Injury
1	Heart Disease	1	Heart Disease
2	Stroke	2	Stroke
3	Respiratory Infection	3	Pulmonary Disease
4	Pulmonary Disease	4	Respiratory Infection
5	Diarrhoeal Disease	5	Diabetes
6	HIV/AIDS	6	Throat/Lung Cancer
7	Throat/Lung Cancer	. 7	Traffic Injuries
8	Diabetes	8	HIV/AIDS
9	Traffic Injuries	9	Diarrhoeal Disease
10	Hypertension	10	Hypertension

Source: WHO Global Road Safety Report

These deaths are preventable!

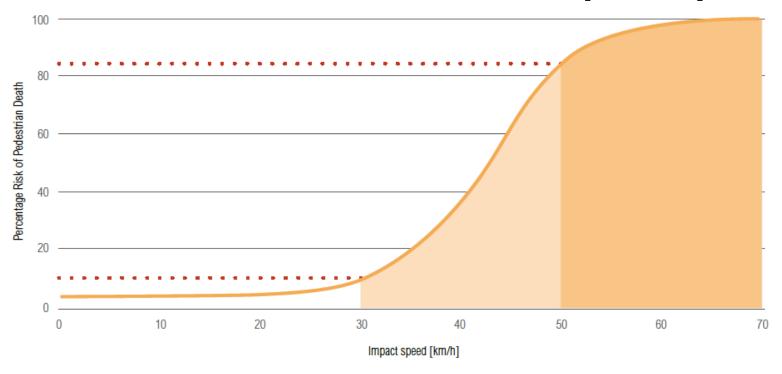
These deaths are preventable!

We know what to do ©

Speed Kills!

1. Lower Speeds

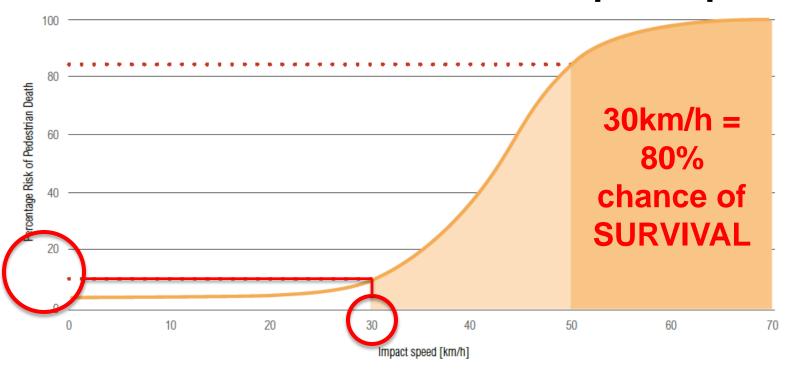
Risk of Pedestrian Death and Impact Speed



Note: The above figure shows the relationship between pedestrian fatalities and vehicle impact speed published by the OECD (2006). Some recent studies show a similar relationship, but account for sample bias to find slightly lower risks in the 40 to 50 km/hr range. (Rosen & Sander 2009, Tefft 2011, Richards 2010, Hannawald and Kauer 2004) There are not, however, studies from low- and middle-income countries where things like vehicle type, emergency response time and other characteristics may influence this relationship. In any case, there is clear evidence to support policies and practices that lower vehicle speeds to 30 km/hr where pedestrians are commonly present, and no more than 50 km/hr on non-grade separated streets.

Source: WRI Safer Cities by Design

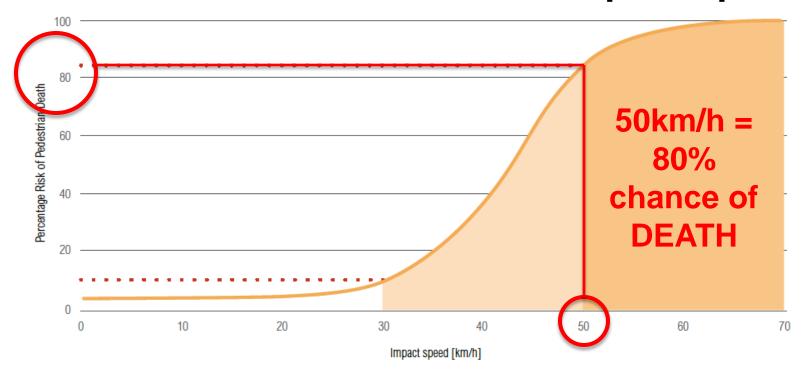
Risk of Pedestrian Death and Impact Speed



Note: The above figure shows the relationship between pedestrian fatalities and vehicle impact speed published by the OECD (2006). Some recent studies show a similar relationship, but account for sample bias to find slightly lower risks in the 40 to 50 km/hr range. (Rosen & Sander 2009, Tefft 2011, Richards 2010, Hannawald and Kauer 2004) There are not, however, studies from low- and middle-income countries where things like vehicle type, emergency response time and other characteristics may influence this relationship. In any case, there is clear evidence to support policies and practices that lower vehicle speeds to 30 km/hr where pedestrians are commonly present, and no more than 50 km/hr on non-grade separated streets.

Source: WRI Safer Cities by Design

Risk of Pedestrian Death and Impact Speed



Note: The above figure shows the relationship between pedestrian fatalities and vehicle impact speed published by the OECD (2006). Some recent studies show a similar relationship, but account for sample bias to find slightly lower risks in the 40 to 50 km/hr range. (Rosen & Sander 2009, Tefft 2011, Richards 2010, Hannawald and Kauer 2004) There are not, however, studies from low- and middle-income countries where things like vehicle type, emergency response time and other characteristics may influence this relationship. In any case, there is clear evidence to support policies and practices that lower vehicle speeds to 30 km/hr where pedestrians are commonly present, and no more than 50 km/hr on non-grade separated streets.

Source: WRI Safer Cities by Design

2. Design streets that put people first.























Why on earth would we not give the right-of-way to a child walking to school over someone moving in large protective armour....?



















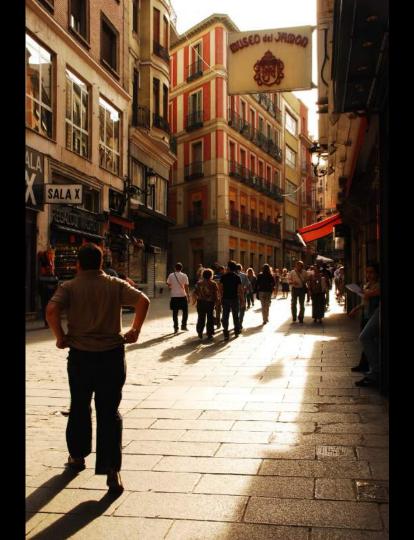
Sao Paulo







Glasgow, Scotland



Madrid, Spain



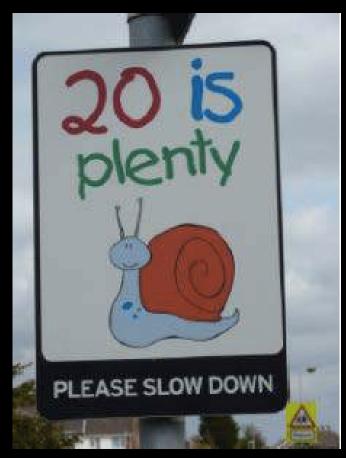




Speed Reduction // 30km/h



Christchurch, New Zealand



United Kingdom (mph)



Car-Free Days









1/3 People Bike

1/3







Yea...whatever....that's Copenhagen.... We're different here in Auckland!











Amsterdam



Amsterdam

Van Beuningenstraat and Van Boetzelaerstraat in 1962 and 2015



Amsterdam

Van Beuningenstraat and Van Boetzelaerstraat in 1962 and 2015



(In progress/ working numbers)

City	City/Municipality			Urban Area		Cycles		Subway/Metro		Tram/LRT		Commuter/S-lines		Total rail
Name	Рор	Hab/km²	Surface (km²)	Pop	Hab/km²	Km of cycle lan	Bike share	# lines	km	# lines	km	# lines	km	km
Auckland	1,454,300	2,600	310	1,570,500		283	NO	0	0	0	0	5	120	120
Munich	1,407,836	4,500	559	2,606,021		1,200	Call A Bike	8	103.1	13	79	8	434	616
Stockholm	923,516	4,900	188	1,372,565	3,597	760	City Bikes	7	105.7	4	36.3	6	340.5	482.5
Helsinki	626,305	2,930	715	1,115,942	1,449	1,200 (2,600)	CityBikes	2	21	13	38	4	235	294
Copenhagen	591,481	6,900	86	1,263,698	2,052	454	Bycykler Købe	2	13.9	0	0	7	170	183.9
Dublin	527,612	4,588		1,110,627		195 (50 shared)	Dublin Bikes	0	0	2	36.5	2	53	90

(Population/ density/ desirable mode share/ infrastructure)

(In progress/ working numbers)

City	City/Municipality			Urban Area		Cycles		Subway/Metro		Tram/LRT		Commuter/S-lines		Total rail
Name	Pop	Hab/km ²	Surface (km²)	Pop	Hab/km²	Km of cycle lan	Bike share	# lines	km	# lines	km	# lines	km	km
Auckland	1,454,300	2,600	310	1,570,500		283	NO	0	0	0	0	5	120	120
Munich	1,407,836	4,500	559	2,606,021		1,200	Call A Bike	8	103.1	13	79	8	434	616
Stockholm	923,516	4,900	188	1,372,565	3,597	760	City Bikes	7	105.7	4	36.3	6	340.5	482.5
Helsinki	626,305	2,930	715	1,115,942	1,449	1,200 (2,600)	CityBikes	2	21	13	38	4	235	294
Copenhagen	591,481	6,900	86	1,263,698	2,052	454	Bycykler Købe	2	13.9	0	0	7	170	183.9
Dublin	527,612	4,588		1,110,627		195 (50 shared)	Dublin Bikes	0	0	2	36.5	2	53	90

(Population/ density/ desirable mode share/ infrastructure)

STEAL / BORROW / SHARE / ADAPT

These transformations didn't happen by accident....

People made decisions to design their cities differently and to invest in multi-modal transportation options

So we have the precedents, we know what's possible, and we are realizing the urgency,....

Cities are growing, climates are changing, and people are dying.....

and there's still a lot to do and a long way to go!

We need your bold visions, your technical support, your advocacy, and your local action to get us there!

Bloomberg Philanthropies

BLOOMBERG INITIATIVE FOR GLOBAL ROAD SAFETY

- 1. ENFORCEMENT
- 2. DATA
- 3. MEDIA
- 4. SAFE STREETS & SAFE MOBILITY

PARTNERS:

EMBARQ/ WRI

WB/ Global Road Safety Facility

NACTO/ GDCI

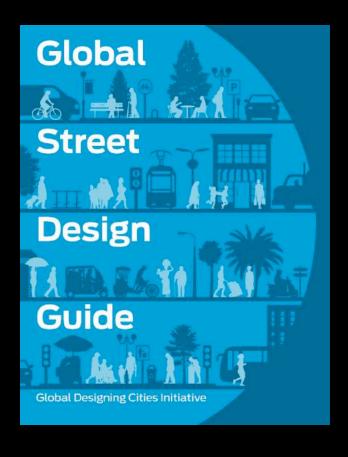
Global Road Safety Partnership Johns Hopkins Bloomberg School of

Public Health

The Union North America

World Health Organization

NACTO / Year 1 / 2015



NACTO / Year 2-5

- 1. Sao Paulo, Brazil
- 2. Bogota, Colombia
- 3. Addis Ababa, Ethiopia

- 4. Accra, Ghana
- 5. Bangkok, Thailand
- 6. Ho Chi Minh City, Vietnam
- 7. Shanghai, China
- 8. Mumbai, India
- 9. Bandung, Indonesia
- 10. Fortaleza, Brazil



National Association of City Transportation Officials

Urban Street Design Guide

FHWA Memorandum

States

California

Massachusetts

Minnesota

Tennessee Utah

Washington

Cities

Arlington, VA

Atlanta

Austin

Baltimore

Bellevue, WA

Boston

Boulder

Brownsville, TX

Charlotte

Chattanooga

Chicago Davis

Denver

El Paso

Fort Lauderdale

Hoboken

Indianapolis Louisville

Memphis

Minneapolis

Nashville

New York

Oakland

Philadelphia

Pittsburgh

Phoenix

Portland, OR

Portsmouth, NH

Providence

Rochester, NY

Saint Paul

Salt Lake City

San Diego

San Francisco

Seattle

Somerville, MA

Tacoma, WA

Traverse City, MI Washington, DC

Counties Hennepin County, MN

Organizations

Association of Bicycle & Pedestrian

Professionals

Urban Land Institute



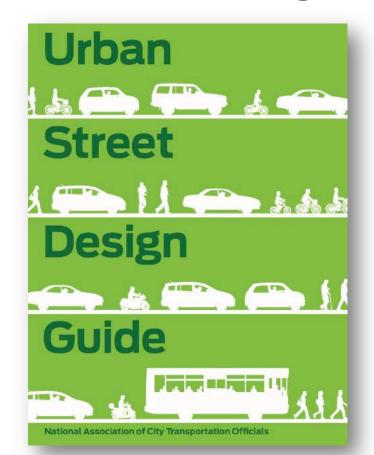


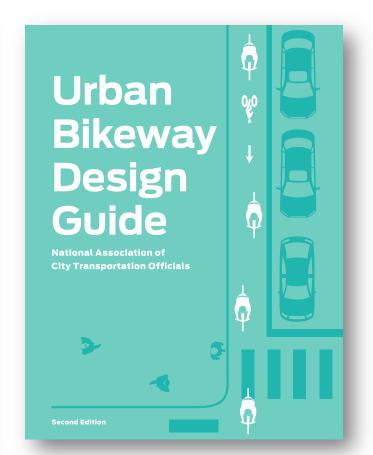


NACTO Annual Conference

26th-29th Sept 2016, Seattle, United States

Design Guidance

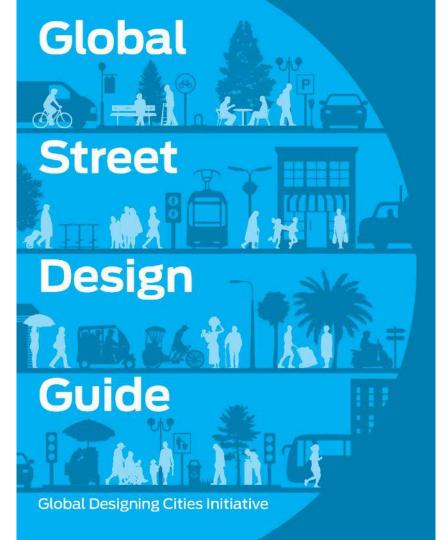








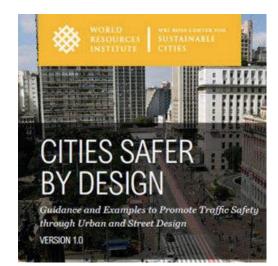
Janette Sadik-Khan



Being Published In 2016



GLOBAL 2015











STREETS AS TOOLS FOR URBAN TRANSFORMATION IN SLUMS: A STREET-LED APPROACH TO CITYWIDE SLUM UPGRADING

and direction for London's streets and roads Roads Task Force

The vision

CITY OF JOHANNESBURG COMPLETE STREETS DESIGN GUIDELINE

Complete Streets

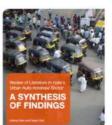
Water sensitive urban design

Creating more liveable and water sensitive oftes in South Australia





Bus Rapid Transit











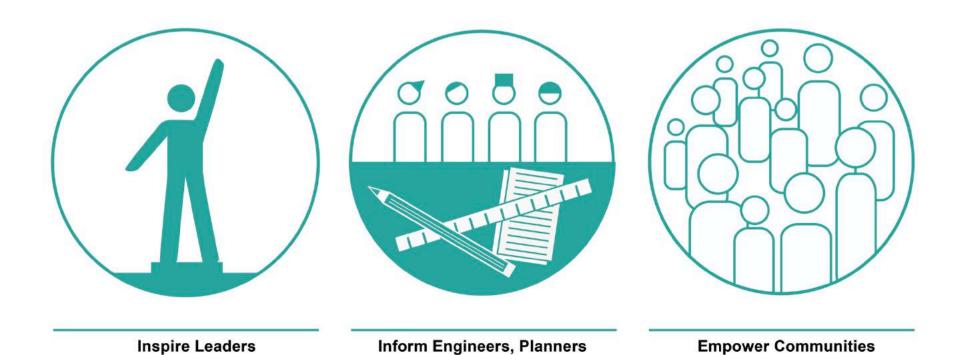




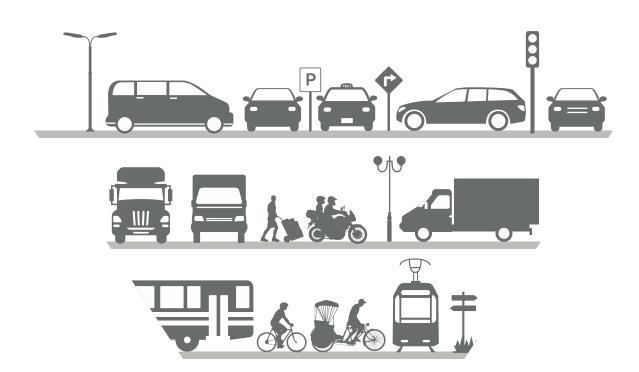


Planning Guide

From Global Agenda to Local Action



and Designers





















AV / New Technologies = Design to fit into the cities we WANT to see



If we don't get this part right, we will only be repeating the mistakes of last century!

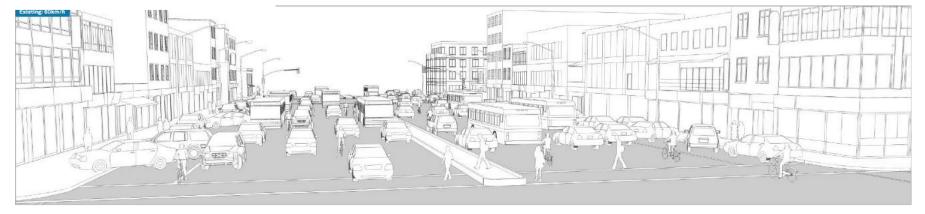
Global Network

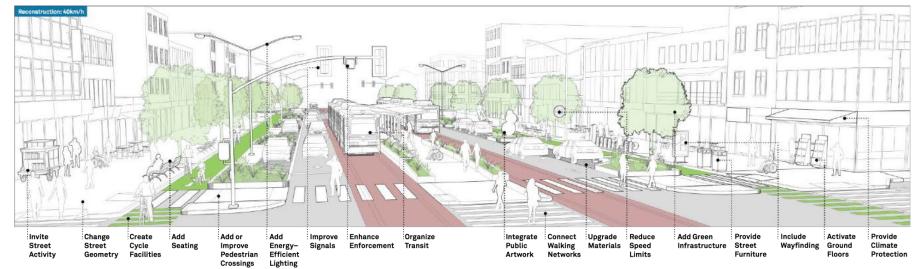


Global Network

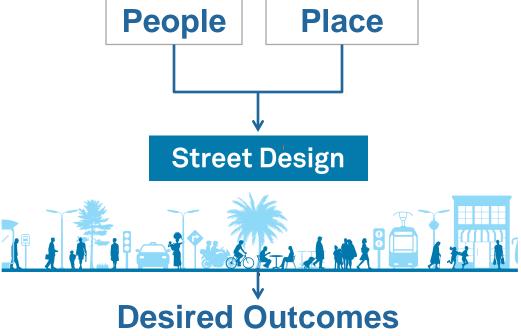


What Is Possible





A New Approach to Street Design



- Health and Safety
 - Livability and Quality of Life
 - Multi-modal Access
 - Environmental Sustainability
 - Economic Sustainability
 - Equity





Streets for the Most Vulnerable



Streets for Safety



Streets for Health



Streets are Public Space



Streets are Ecosystems



Streets are Multimodal



Streets are Contextual



Streets are Great for Business



Streets are Multidimensional



Streets Can Change! Act now!



Streets Users



Streets Users - Pedestrians



Streets Users - Cyclists



Streets Users – Collective Transport



Streets Users – Personal Motor Vehicles



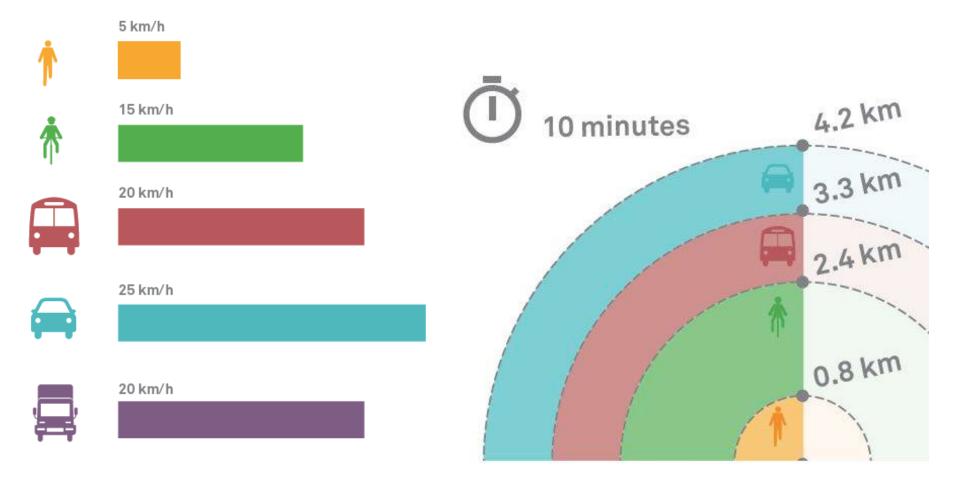
Streets Users – Moving Goods & City Services



Streets Users - Business

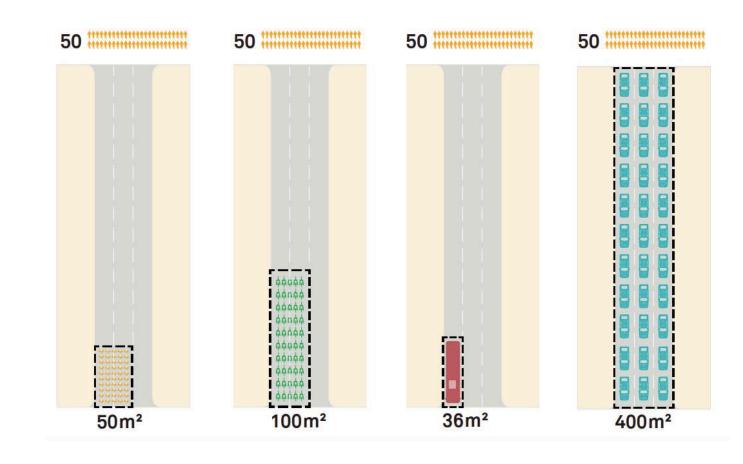


Streets Users - Comparison



Streets Users – User Comparison

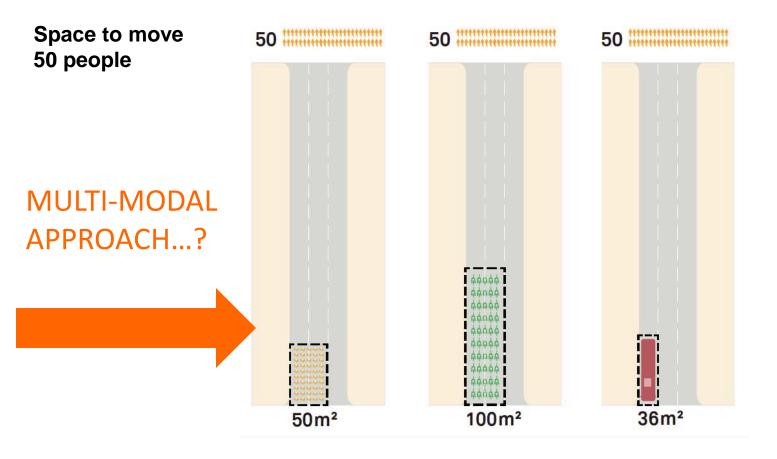
Space to move 50 people



1 MILLION NEW PEOPLE......

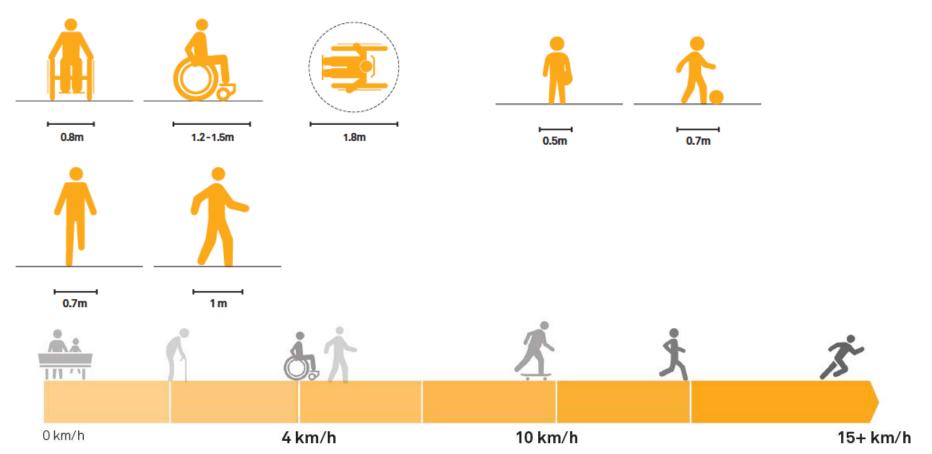
Space to move 50 people 1 MILLION NEW CARS.....? 400m²

1 MILLION NEW PEOPLE......



Pedestrians

Speed, Variations and Dimensions



Pedestrians

Key Network Considerations

- Connectivity
- Safety
- Permeability
- Choice
- Human Scale and Complexity
- Key Destinations
- Variety of Users
- Volume of Users
- Green Corridors
- Character and Identity





Pedestrians

Geometry



Pedestrians

Elements



Sidewalks

Accessibility

Ramps



Pedestrian Crossings



Pedestrian Refuge Islands



Curb **Extensions**





Vision-Impaired Guidance



Signage and Wayfinding



Pedestrian Countdown Signals + Clocks



Lighting



Seating



Water **Fountains**



Weather Protection



Curbs



Waste Receptacles



Active **Building** Edges



Trees and Landscaping

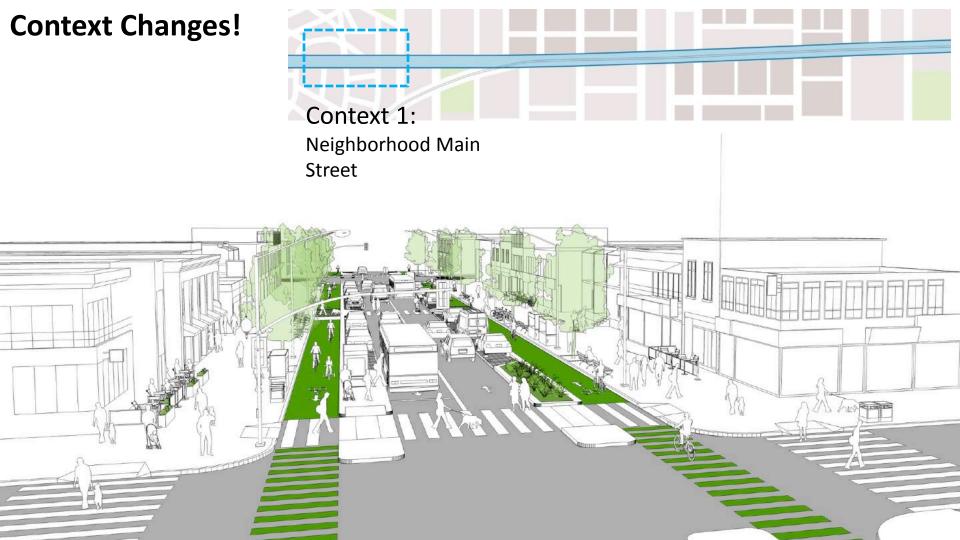
DESIGNING FOR PLACE

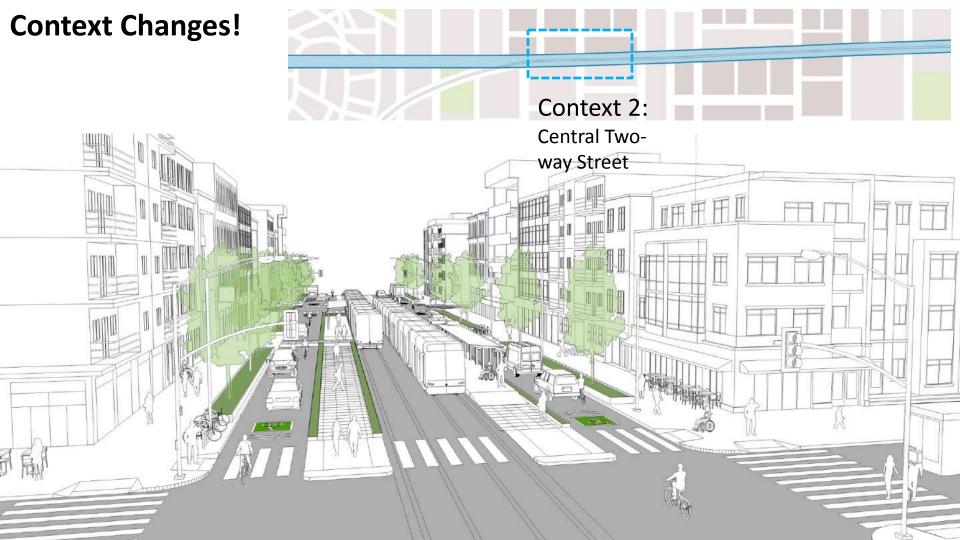


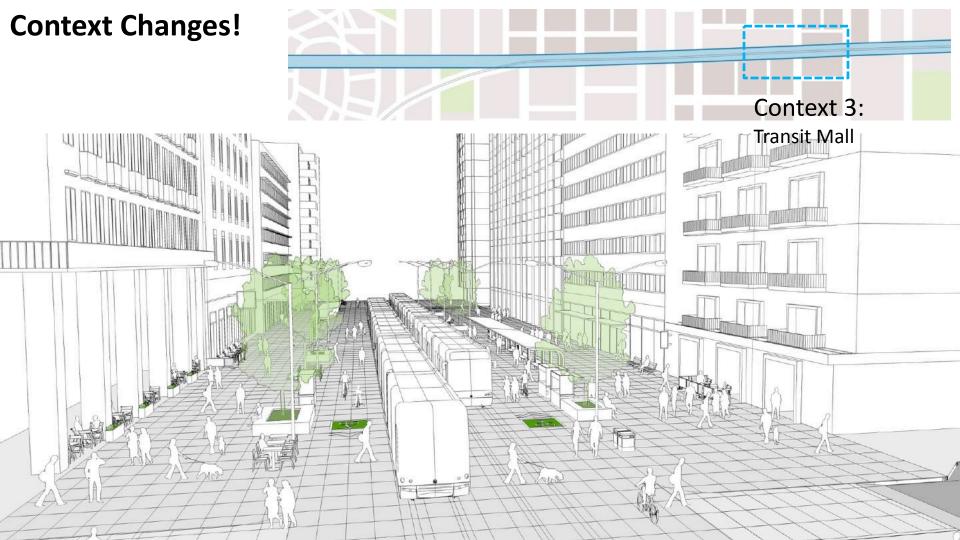
Local Culture & Character **Street Activity Building Edges** Street Scale & Width **Block Size Destinations** Mix of Uses Density Network & Hierarchy Natural Environment Mode Share













Streets



1. Pedestrian Only Streets

4. Pedestrian Plazas





6. Residential Shared Streets

2. Laneways and Alleys 3. Parklets and Pocket Parks

Neighborhood Streets

- 7. Residential Streets
- 8. Neighborhood Main Streets

9. Central One-way Streets

Large

Streets

- - 10. Central Two-way Streets
 - 11. Transit Malls
 - 12. Large streets with Transit
 - 13. Grand Streets

Special **Conditions**

14. Historic Streets

- 15. Elevated Structure Improvements
- 16. Elevated structure Removal
- 17. Streets to Stream
- 17. Temporary Closures
- 19. Post Industrial Revitalization
- 20. Waterfront and Parkside Promonade
- 21. Streets in Informal Settlements

Neighborhood Main Street



Neighborhood Main Street



Shared Streets in Residential Areas



Shared Streets in Residential Areas



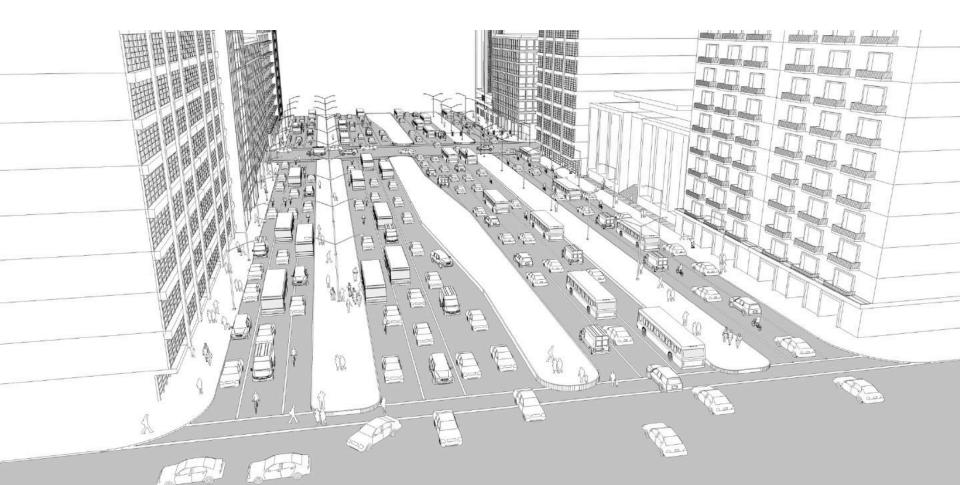
Shared Streets in Commercial Areas



Shared Streets in Commercial Areas



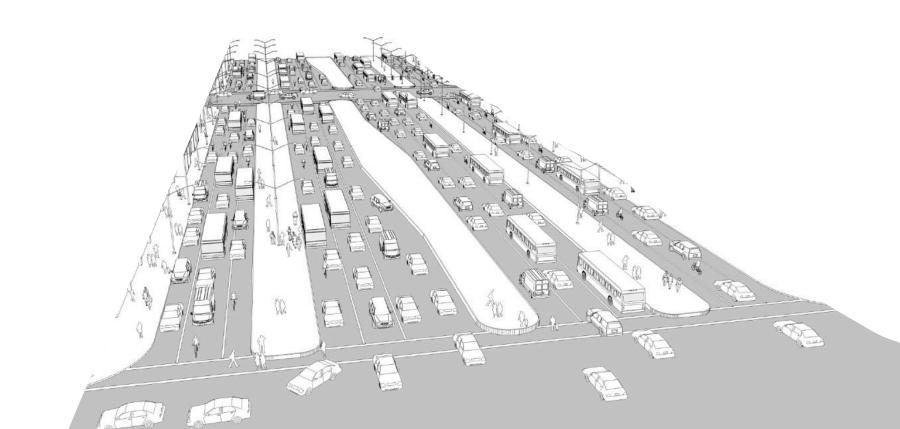
Grand Streets



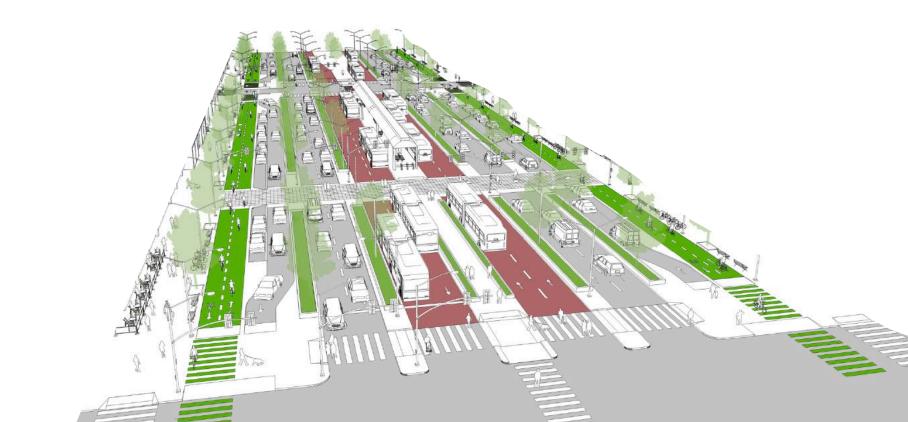
Grand Streets



(What if....Harbour Bridge?)



(What if....Harbour Bridge?)



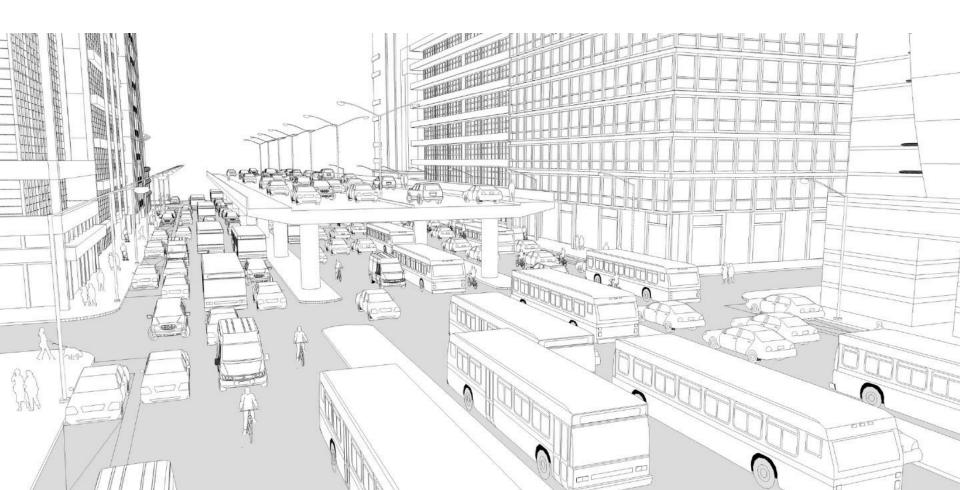
Streets with Elevated Structures



Streets with Elevated Structures



Elevated Structure Removal



Elevated Structure Removal



Streets - to - Streams



Streets - to - Streams



Streets - to - Streams

(What if....Queen Street?)







Pedestrian Priority Streets

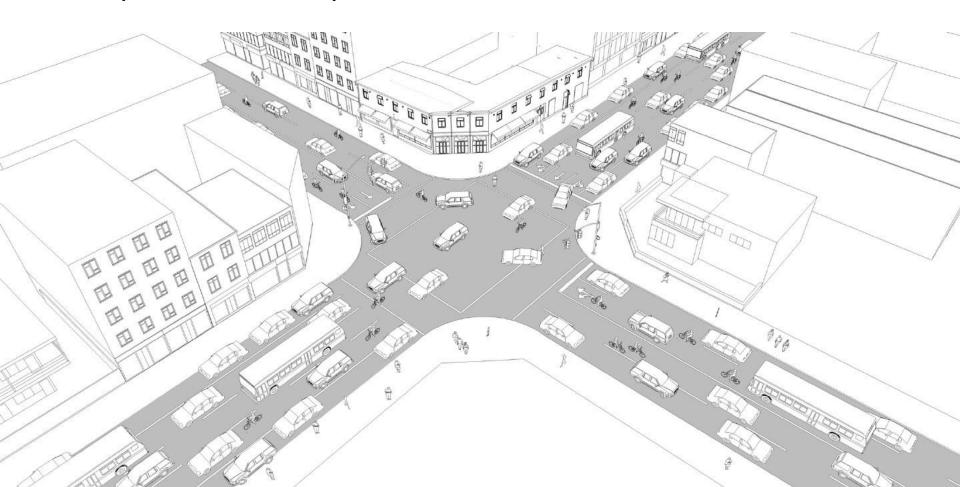


Pedestrian Priority Streets

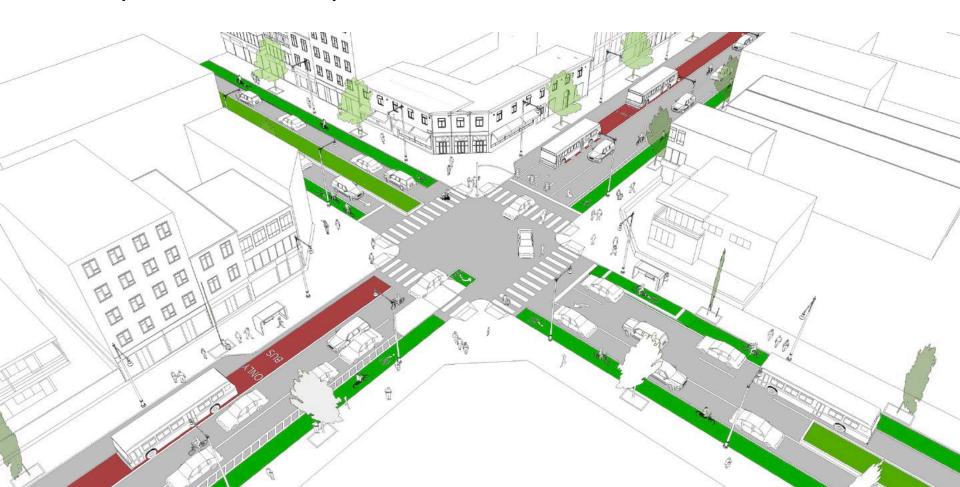




Two-way meets One-way



Two-way meets One-way



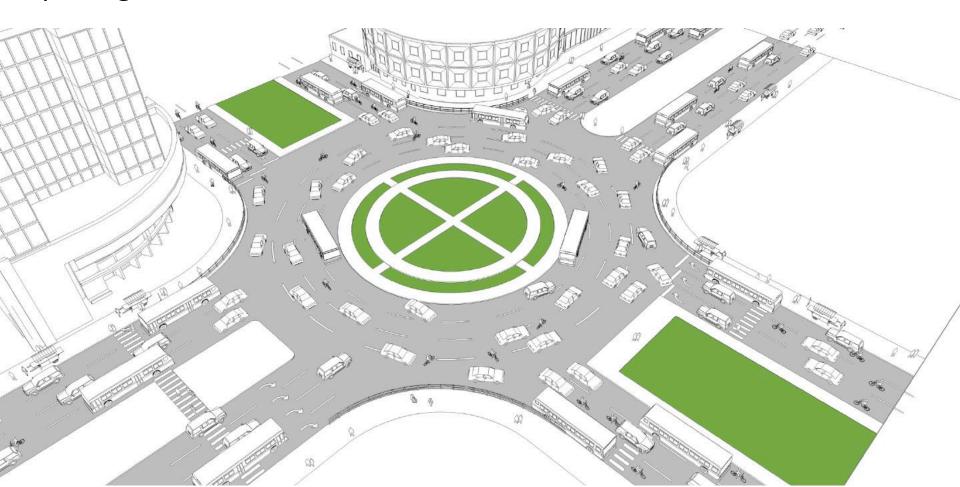
Raised Intersections



Raised Intersections



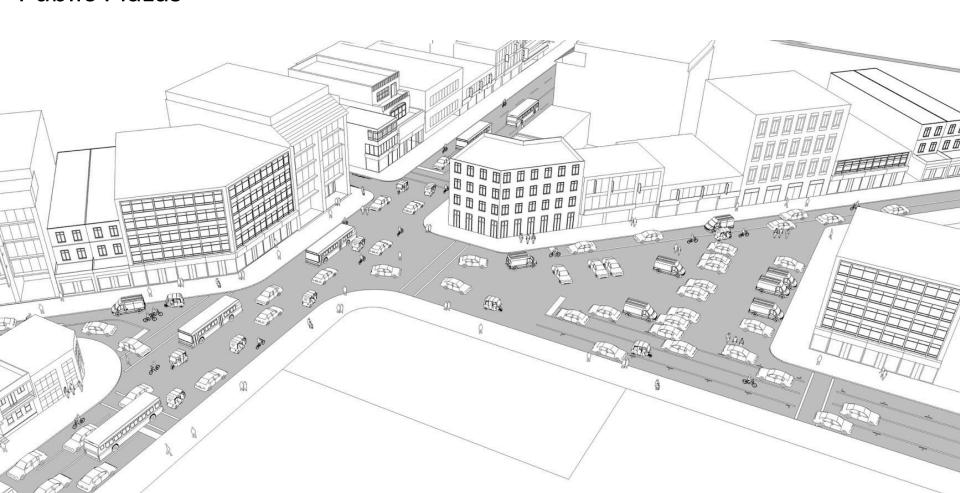
Squaring the Circle



Squaring the Circle



Public Plazas



Public Plazas



PROCESS + METRICS

Du er nummer

I DAG

og nummer

2766554

der cykler forbi her

GOD TUR

og tak fordi du cykler i byen!



- Transportation departments and engineers
- Consumer affairs organizations
- Transit authorities and operators
- Park departments
- Construction and public works
- Sanitation and waste management
- Environmental protection
- Departments and organizations supporting people with disabilities
- Planning departments
- Building departments

Who's Involved in Shaping Streets?



- Utility companies
- Urban designers, landscape architects, and architects
- Health professionals
- Historic preservation organizations
- Advocacy groups and neighborhood associations
- Private property owners and tenants
- Local businesses, vendors, and kiosk owners
- Street operators
- Local media
- Developers and development banks
- Academic institutions
- Enforcement entities

 Transportation departments and engineers

- Consumer affairs organizations
- Transit authorities and operators
- Park departments
- Construction and public works
- Sanitation and waste management
- Environmental protection
- Departments and organizations supporting people with disabilities
- Planning departments
- Building departments

Who's Involved in Shaping Streets?



- Utility companies
- Urban designers, landscape architects, and architects
- Health professionals
- Historic preservation organizations
- Advocacy groups and neighborhood associations
- Private property owners and tenants
- Local businesses, vendors, and kiosk owners
- Street operators
- Local media
- Developers and development banks
- Academic institutions
- Enforcement entities

Physical & Operational Changes



- Length and width of new and improved sidewalk
- Added length of cycle facilities
- Added length of dedicated transit facilities
- Improved signal timing for pedestrian crossing length
- Number of additional trees

planted

Physical & Operational Changes



- Length and width of new and improved sidewalk
- Added length of cycle facilities
- Added length of dedicated transit facilities
- Improved signal timing for pedestrian crossing length
- Number of additional trees planted

Changes in Use & Activity



- Shift in mode share and user counts
- New or changed non-mobility activities
- Change in average vehicular speeds
- User **preferences**
- Volume of water treated

Physical & Operational Changes



- Length and width of new and improved sidewalk
- Added length of cycle facilities
- Added length of dedicated transit facilities
- Improved signal timing for pedestrian crossing length
- Number of additional trees planted

Changes in Use & Activity



- Shift in mode share and user counts
- New or changed non-mobility activities
- Change in average vehicular speeds
- User **preferences**
- Volume of water treated

Resulting Impact



- Road safety (KSI/ fatalities and injuries by location)
- Respiratory and chronic disease rates
- Air Quality
- Total CO2 from Transportation
- Water volumes diverted from city system.

What

When

Why

How

Where

	What to Measure	When to Measure	Why It's Important
Measuring Physical and Operational Changes	The physical and operational changes that the specific project has had on the street.	Before: Measure and document existing site conditions. Arter: Measure immediately after project completion.	For benchmarking against prior conditions To build an inventory and database of the city's infrastructure To track financial investment To demonstrate and communicate short term achievements and progress to stakeholders.
Measuring Shifts in Use and Function	The change in behavior and use of the street. Identify how and why it functions differently, and the level of satisfaction with the changes.	Before: Observe and document existing use and function. Note locations on site plans. After: Measure periodically after 1,3 and 6 months, and after 1 year. Measure during different seasons and at varying times of the day and week.	To evaluate success of intended change in behavior and function To measure user satisfaction For benchmarking against prior conditions and other projects To build evidence for sustainable streets To learn lessons and inform future street designs
Measuring Resulting Impacts	The impacts of how the project contributes to larger city and regional goals and principles of: - Public Health and Safety - Quality of Life - Environmental Sustainability - Economic Sustainability	Before: Identify metrics relevant to project goals and priorities. After: Measure periodically after multiple months, and after 1, 2 and 3 years.	To evaluate long term impacts and benefits To benchmark against larger city-wide goals and priorities To build evidence To measure return on investment For communication and building support for sustainable streets

How to Measure		Where to Measure	Example Metrics
0	Before and after photos and videos	Project site and immediate surroundings	Length and width of new and improved sidewalk
	- Before and After Plans	X	Added length of cycle facilities Added length of dedicated transit facilities Improved signal
	Before and After Sections		timing for pedestrian crossing length - Number of additional trees planted
0	Before and after photos and videos	Project site, connecting networks, and surrounding neighborhood.	Shift in mode share and user counts Increased e
	On-site counts and observations. Note locations.		New or changed non-mobility activities Change in average vehicular speeds User preferences Volume of water treated
IHL	- Quantitative analysis		
(Qualitative surveys	++++-	
W	Quantitative analysis	Project, neighborhood, network and city-wide scale. Choose scale relevant to specific metrics.	Road safety (KSI/ fatalities and injuries by location) Respiratory and chronic disease rates Air Quality
(Qualitative surveys		
	- Compare census results	1	Total CO2 from Transportation Watervolumes
	- Environmental analysis	7#	diverted from city system.

Global Case Studies

Grand Streets: Avenida 9 de Julio, Buenos Aires, Argentina



LOCATION: Montserrat, Buenos Aires, Argentina

CONTEXT: High-density mixed-use

RIGHT-OF-WAY: 140m

SIZE: 2.7 km

COST: 150 million ARS (15.9 million USD)

FUNDING: Public

MAX. SPEED: 60km/h

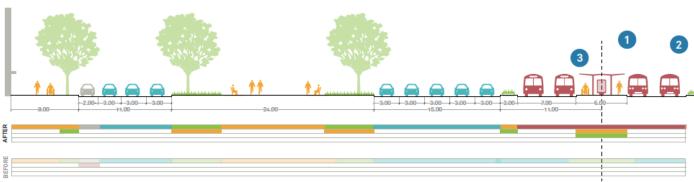


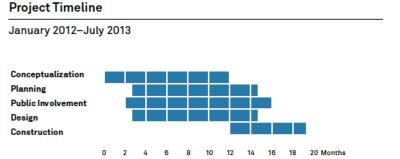


Global Case Studies

Grand Streets: Avenida 9 de Julio, Buenos Aires, Argentina

Key Elements New four-lane, center-running BRT transitway replacing 4 mixed-traffic travel lanes. Level-boarding central platform. Planted side medians. Central walk-through pedestrian paths connecting all the stations on the avenue. Pedestrian markings and LED signals and countdown clocks added to connect stations. Users-bar legend: Pedestrian space Cycles Transit Mixed traffic Landscape Parking









Decrease in the number of crashes since the creation of the avenue.

Metrobus.

Decrease in travel times on the avenue.



Decrease in bus travel times due to BRT implementation.

Evaluation

Reduction of tons of CO₂ equivalent per year.

Global Case Studies

Grand Streets: Avenida 9 de Julio, Buenos Aires, Argentina

Keys to Success

Interagency coordination.

Vehicle fleet upgrade and driver training.

Context-oriented design.

Public participation and involvement.

Commitment from the city to improve the transit infrastructure along the corridor.

Involvement

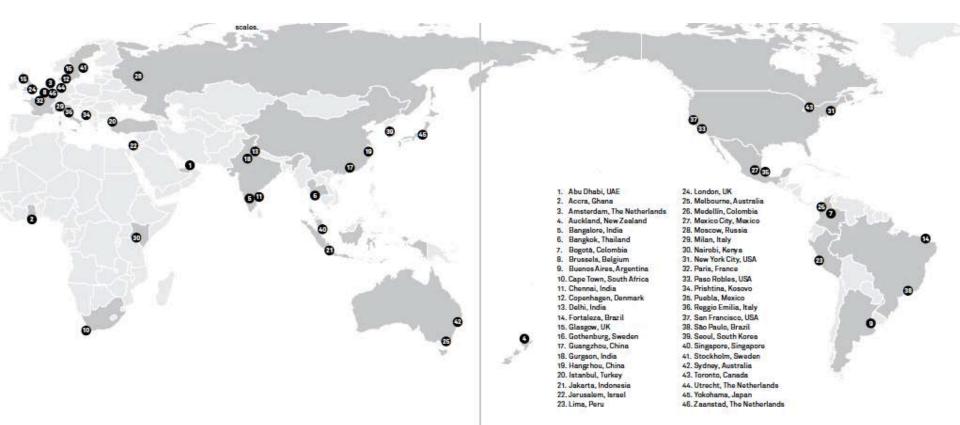
Public agencies

City of Buenos Aires, federal government, bus operators.

Citizen associations and nonprofits Local nonprofits and associations of residents, bus drivers, taxi drivers, and shopkeepers.



Another 20 case studies from around the world!



Fort Street in Auckland



Location: Auckland CBD, New Zealand

Population: 1.4 Million Metro: 1.5 Million

Contaxt: Mixed-use

Right-of-way: 19-20m

Size: Area in and around Fort Street Cost: 23 million NZD (16 million USD)

Funding: CBD targeted rate

Project Sponsors: Manager, CBD Projects, Auckland City Council

Max. speed: N/A - No posted speed

A Network of Shared Streets







Photo: Auckland Council

The transformation of Fort Street into a shared street resulted in a 54% increase in pedestrian volumes and 47% increase in consumer spending.

Overview

Fort Street showcases the way that shared streets can turn a district into a destination, increasing visitors for shopping and other activities. It is one of several new shared spaces implemented in Auckland's Central Business District in recent years to enhance pedestrian connectivity and provide a quality public realm.

Goals

- · Better integrate the area into the surrounding street network.
- Prioritize pedestrians.
- · Create a distinctive public space.
- · Create a space that supports businesses and residents and provides opportunities for a variety of activities.
- · Provide a high-quality, attractive, and durable street that contributes to a sustainable and maintainable city center.

Keys to Success

Involvement

Private group

Public agencies

Blind Foundation

Designers and Engineers

Collaboration with key stakeholders.

Pre- and post-monitoring and evaluation in order to communicate the impacts of the project.

Auckland Council, Auckland Transport

Local business owners and operators

Boffa Miskell, Jawa Structures, TPC

(traffic engineering), LDP (lighting)

Testing design variations.

Evaluation

+54%

Increase in pedestrian volumes



Increases consumer spending.



-25%

Decrease in vehicle volume.



Felt safer in the area

Citizen associations and unions

19:12

Project Timeline

June 2009 - April 2013



Key Elements

Removal of any demarcation between pedestrian and vehicles such as curbs and bollards.

2 Extended areas for open-air activities.

Pedestrians can walk on the entire right-of-way.

Accessible routes along building ines for the blind.

Removal of all parking spaces.

Restricted loading times.

Street furniture and landscaping.

Users-bar legend: Pedestrian space

Cycles Transit

Mixed traffic Landscape Parking

Jellicoe Street in Auckland



Auckland, New Zealand

Extent 400 m

Right-of-way 23 m

Context Before Industrial After: Mixeduse (residential, commercial)

Cost: 24 million NZD (15 million USD) Funding Public

Project sponsors Auckland Waterfront Development Agency

Max Speed 30km/h



Credit Photo: Auckland Council

Key Elements

Integration of a rain garden
network in the street design

2 Limited vehicle access

Curbs removed (shared space approach)

Integration of light rail (tram)
Use of native and local plants

Goals

Create a unique destination and a civic

Bring recreational activity to the site

Transforming the area but preserving the industrial heritage

Achieve an environment that is well connected yet offers distinctly different experiences

Overview

The transformation of Jellicoe Street is part of the larger revitalization project of the Wynyard Quarter, from an industrial port area to an active and livable waterfront neighborhood. The area is located on the adge of the city close to the harbour on contaminated land.

Public space has been designed to be a catalyst for development and to foster the conversion of old hangars and warehouses into a cultural and recreational strip.

The street was transformed from an industrial service road to a lush pedestrian boulevard. Narrowing the width of Jellicoe Street and the surface treatment reduced vehicle speeds.

Thanks to its innovative approach and integrated sustainability measures, the transformation of Jellicoe Street has become a new benchmark for citywide street planting

Lessons Learned

Although surface treatment reduced speeds, the driver behavior forced the Waterfront Development Agency to implement controls such as wheel stops adjacent to rain gardens and dotted yellow lines to restrict parking.

Usage of parking spaces were monitored and changes were made accordingly, including replacing our parking with bicycle parking and with loading zones.

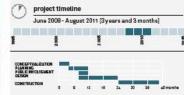
Involvement

Public agencies
Auckland Council, Waterfront
Development Agency

Designers and Engineers
Taylor Cultiny Lathlean, Wraight +
Associates, MPM projects, Seca,
Ecubed and DesignFlow

Waterfront Auckland has perbrered with a local Maint rithe 6w8 to maintain the vagetation in the street as part of a precedent setting community outreach program for the city.





Artor

pedestrian activity

SUSTAINABILITY

The street transformation addressed sustainability issues by:

- Water-sensitive urban design implementation site-wide (cepturing, treating and reusing storm-water)
- The reuse of site through materials such as concrete blocks from a nearby cement factory
- The promotion of healthy activities, environmental education and positive social interaction

vehicle volume

absorbtion with aditional treets



vehicle volume

ridership





Credit: Jana Urban Space

Bangalore





Credit: VPUU NPC

Cape Town





Seoul





Credit: NL Architects

Amsterdam





Credit: SvR Design Company

Credit: CannonCorp Engineering

Paso Robles, CA





Credit: City of Toronto

Toronto





Chennai





Credit: Abu Dhabi Urban Planning Council

Abu Dhabi





Credit: Elaine Kramer

London





Credit: Embarq, WRI Turkey

Istanbul



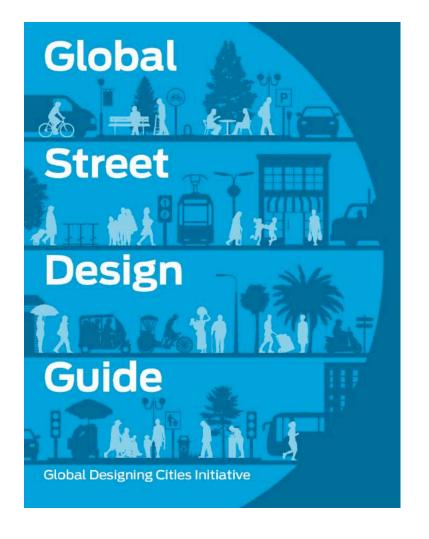


San Francisco





Stockholm



Provide the tools to reimagine, reinvent, and redesign safer, more sustainable streets!

ACCRA, GHANA

salam sumi mununi mununy'u





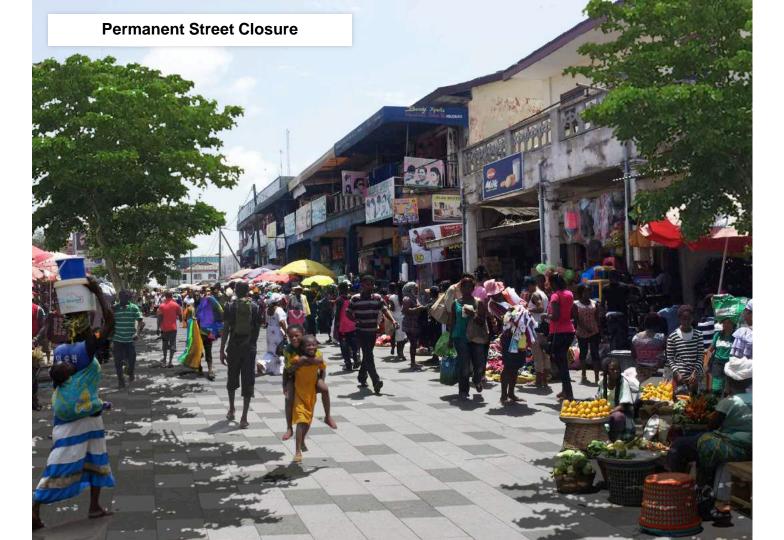














BANDUNG, INDONESIA



































What Streets in Auckland would you do this transformational exercise

for?

Have a think

...and come and tell Ludo

after the talk ©

ASK FOR IT DEMAND IT DESIGNIT FUND IT DO IT

DESIGN STREETS THAT PUT PEOPLE FIRST!





SHIFT HOW WE MEASURE SUCCESS



THEN

SHIFT HOW WE MEASURE SUCCESS







Change Streets in Auckland, Change the World www.globaldesigningcities.org

Available 2016

PRE-ORDER TODAY

www.globaldesigningcities.org

Skye Duncan

Director, Global Designing Cities Initiative skye@nacto.org



@GlobalStreets

@Skyejduncan

