



**Resilient Urban Development Saint Vincent and the Grenadines** 

#### **Urban Transportation Planning**

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**Technical Workshop for Arnos Vale and Kingstown** 

March 20 – 21, 2019 | NIS Building | Kingstown, SVG

# Outline

- 1. Key points from Day 1
- 2. What is the role of transport in urban regeneration?
- **3.** What are the opportunities for Kingstown?

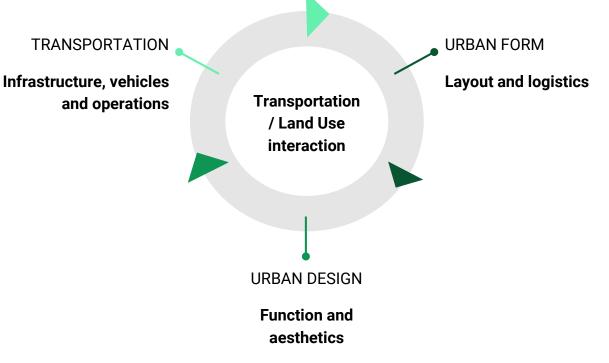
# Key points from Day 1

Transportation planning is the practice of balancing demand for and supply of transportation resources, for the present and the future.

#### The cycle

Urban form and urban design can support and inform transportation decisions.

Transportation decisions can also support and inform urban form and urban design.





Demand management techniques

- Localise
- Incentivise/Disincentivise
- Virtualise
- Educate

#### Supply management techniques

- Build
- Buy
- Organise
- Prioritise



# What is the role of transport in urban regeneration?

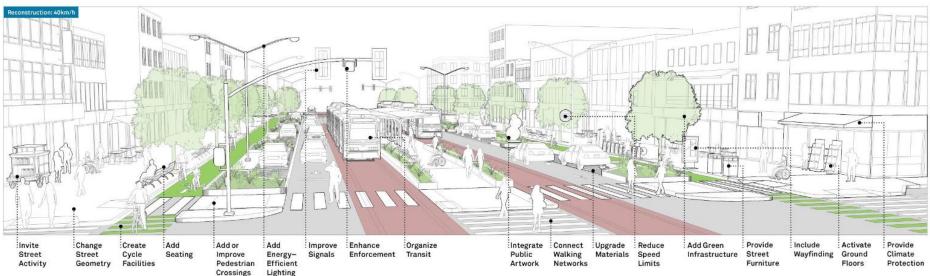
## Thinking big

- Don't get stuck on symptoms
- Don't think only of driving
- Don't be bound by the city limits
- Don't think of the system as fixed



# Infrastructure (Streets and public spaces)





### Existing

Existing conditions demonstrate how traditional design elements have had an adverse impact on how people experience the streetscape.



#### Interim

Striping and low-cost materials can realize the benefits of a full reconstruction in the short term, while allowing a city to test and adjust a proposed redesign.



#### Reconstruction

Full capital reconstructions can take 5–10 years. A complete upgrade might include new drainage and stormwater management provisions, raised bikeways, wider sidewalks, and traffic calming elements.



Strøget, Copenhagen

Intervention: Pedestrianisation

Location: Central Copenhagen, Denmark

Length: 1.15 km (0.7 mi)

Right-of-Way: 10–12 m

Context: Mixed-use (Residential/Commercial)



# Vehicles (Densifying, electrifying, shrinking and demotorising)

# Densify



# Electrify



# Shrink



# De-motorise



### Dublin Bus Connects

Intervention: Increased and improved public transportation service

Location: Dublin and suburbs, Ireland

Changes: improved routing, increased frequency, better connections with other transport services, revised fare structure, bus lanes, bus stops/shelters, improved information



#### NEW AND UPGRADED BUS CORRIDOR NETWORK

1. Clongriffin to City Centre
2. Swords to City Centre
3. Ballymun to City Centre
4. Finglas to Phibsborough
5. Blanchardstown to City Centre
6. Lucan to City Centre
7. Liffey Valley to City Centre
8. Clondalkin to Drimnagh
9. Greenhills to City Centre
10. Kimmage to City Centre
11. Tallaght to Terenure
12. Rathfarnham to City Centre
13. Bray to City Centre
14. UCD Ballsbridge to City Centre
15. Blackrock to Merrion
16. Ringsend to City Centre

# Operations (A better balance)

# Regulation and administration

Traffic management

Parking management

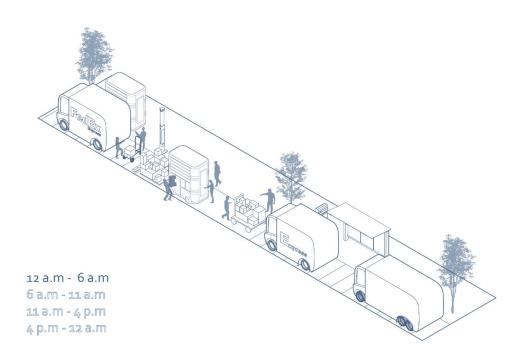
Time and day restrictions

Vehicle type restrictions

Speed restrictions

**Real-time information** 

Dynamic wayfinding



### London Congestion Charge Zone

Intervention: Road pricing

Location: Central London

Hours: Mon-Fri 7 AM - 6 PM

Special circumstances: discounts and exemptions available for certain categories

Cost: £11.50/day in advance £14/day next day

Payment: online/telephone

**Enforcement: Fixed penalty notice** 





# What are the opportunities for Kingstown?

# System assessment: what do we have?

The Unique Demand Profile (UDP)

- 1. Topography (constraints)
- 2. Development (demand)
- 3. Infrastructure (supply)

#### Topography

- Constrained in size by the mountains and the sea
- 'Greater Kingstown' is a mountainous region
- Rivers (North River and South River) flowing through at each end of the city
- Green spaces outside of the city centre/CBD



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#### Development

- Cruise ship terminal
- Ferry terminal
- Cargo port project
- 9 Steps
- Government/administrative offices
- Commercial retail and food/beverage activity
- Street vending
- Traditional architectural details
- Little to no direct access to waterfront



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#### Infrastructure

- Private cars
- Private buses
- Two-lane mountain roads, little to no room for widening
- Bus Terminus in Kingstown
- Arcades
- Parking lots and onstreet parking



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## What are the possible transport interventions?



#### Thank you!







ACP-EU Natural Disaster Risk Reduction Program

