Auckland's future mobility – doing well internationally?
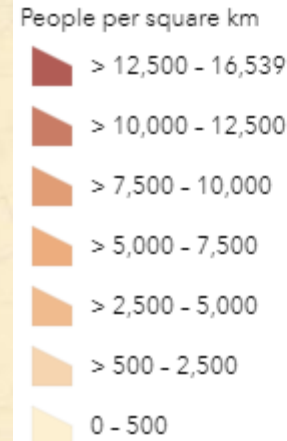
Technical Director / Integrated Transport Planning Risto Jounila

Wellington – 4 March 2019

Auckland - jobs and residents
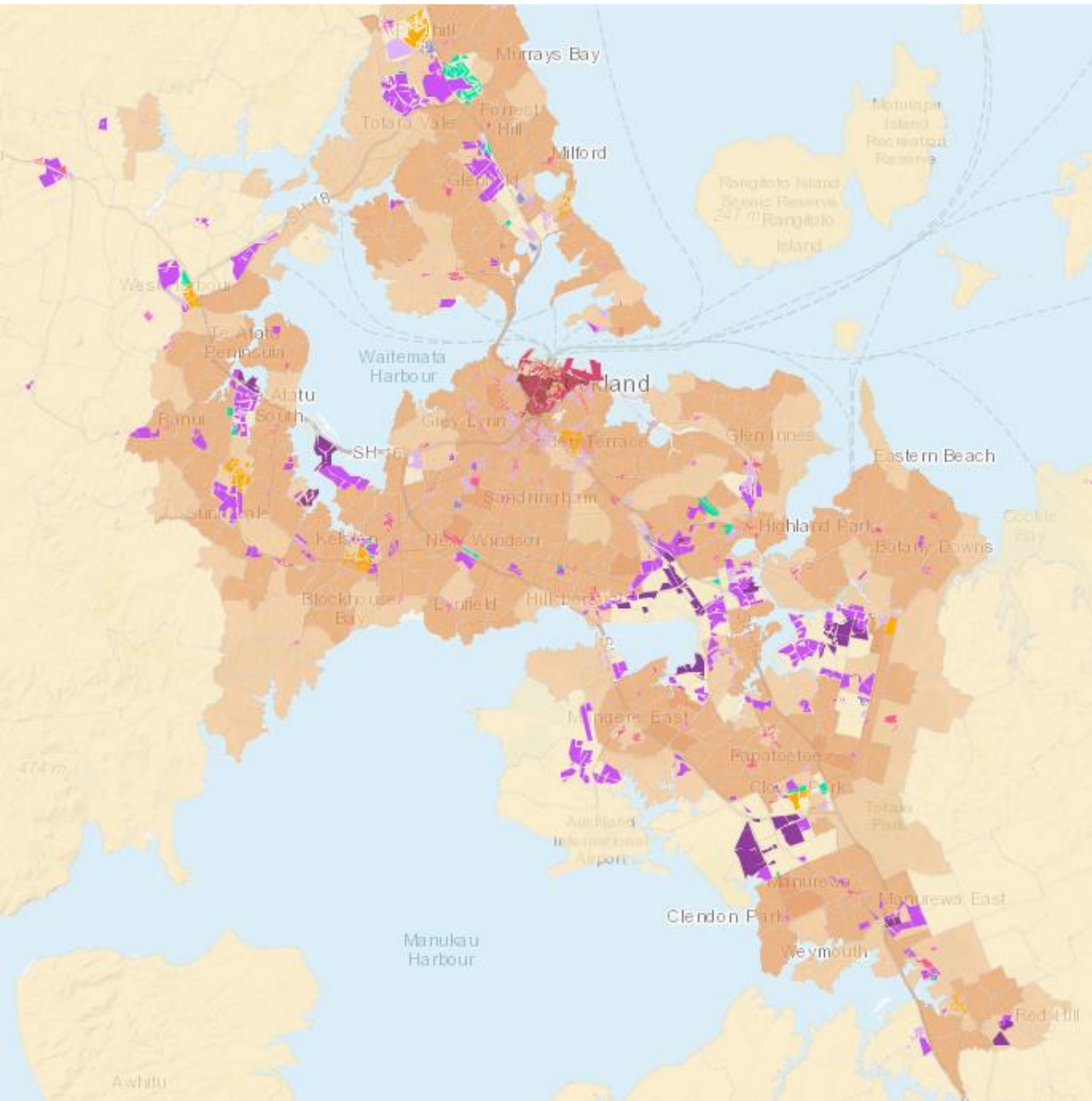
Business Zones (Unitary Plan)

- Business - City Centre Zone
- Business - Metropolitan Centre Zone
- Business - Town Centre Zone
- Business - Local Centre Zone
- Business - Neighbourhood Centre Zone
- Business - Mixed Use Zone
- Business - General Business Zone
- Business - Business Park Zone
- Business - Heavy Industry Zone
- Business - Light Industry Zone

Population Density (2016 estimated)

People per square km

- > 12,500 – 16,539
- > 10,000 – 12,500
- > 7,500 – 10,000
- > 5,000 – 7,500
- > 2,500 – 5,000
- > 500 – 2,500
- 0 – 500

Transport demand today!

Congestion level (Tomtom) => +45min extra travel time daily

Population:

- 1.65m Pop. 2019
- 2m Pop. by 2029
- 2,5m Pop. by 2043

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Ranking

Auckland

13th position City Score

Achiever on Place Making and Technology - both on 6th position (theme category).

Underachiever in Mobility on 19th position (theme category)

RANKING	CITY	PLACES	MOBILITY	TECHNOLOGY	URBAN SYSTEMS	CITY SCORE
1	Seattle	6.9	6.8	8.5	7.4	29.58
2	Copenhagen	8.0	7.5	7.7	6.4	29.52
3	Stockholm	7.3	7.4	8.2	6.3	29.19
4	New York	7.3	6.3	7.5	7.5	28.59
5	Vancouver	8.2	5.9	7.8	6.6	28.56
6	Singapore	7.2	7.4	7.8	5.6	27.97
7	San Francisco	7.2	7.4	7.0	6.2	27.84
8	Montreal	7.0	6.9	7.7	6.2	27.73
9	Washington DC	7.1	6.2	8.3	6.1	27.71
10	Toronto	7.9	5.9	7.7	6.1	27.55
11	London	6.3	7.0	7.4	6.8	27.51
12	Manchester	6.6	6.3	7.0	6.8	26.60
13	Auckland	7.2	5.4	8.0	5.2	25.76
14	Melbourne	6.7	6.7	7.0	5.2	25.60
15	Sydney	6.9	6.7	7.5	4.5	25.54
16	Dubai	5.6	5.9	7.7	6.3	25.40
17	Beijing	5.6	7.2	6.0	6.4	25.25
18	Seoul	6.4	6.5	8.3	4.0	25.22
19	Edinburgh	6.5	5.7	6.2	5.8	24.17
20	Calgary	7.0	4.6	8.2	4.0	23.76
21	Brisbane	7.1	5.1	7.3	3.5	23.02
22	Mexico City	4.5	4.3	7.1	2.8	18.61
23	New Delhi	4.3	4.8	4.7	3.8	17.50
24	Bogota	3.9	3.6	3.8	3.0	14.36

Choosing cities

WSP | OPUS

CITY
Auckland
Beijing
Bogotá
Brisbane
Calgary
Copenhagen
Dubai
Edinburgh
London
Manchester
Melbourne
Mexico City
Montreal
New Delhi
New York
San Francisco
Seattle
Seoul
Singapore
Stockholm
Sydney
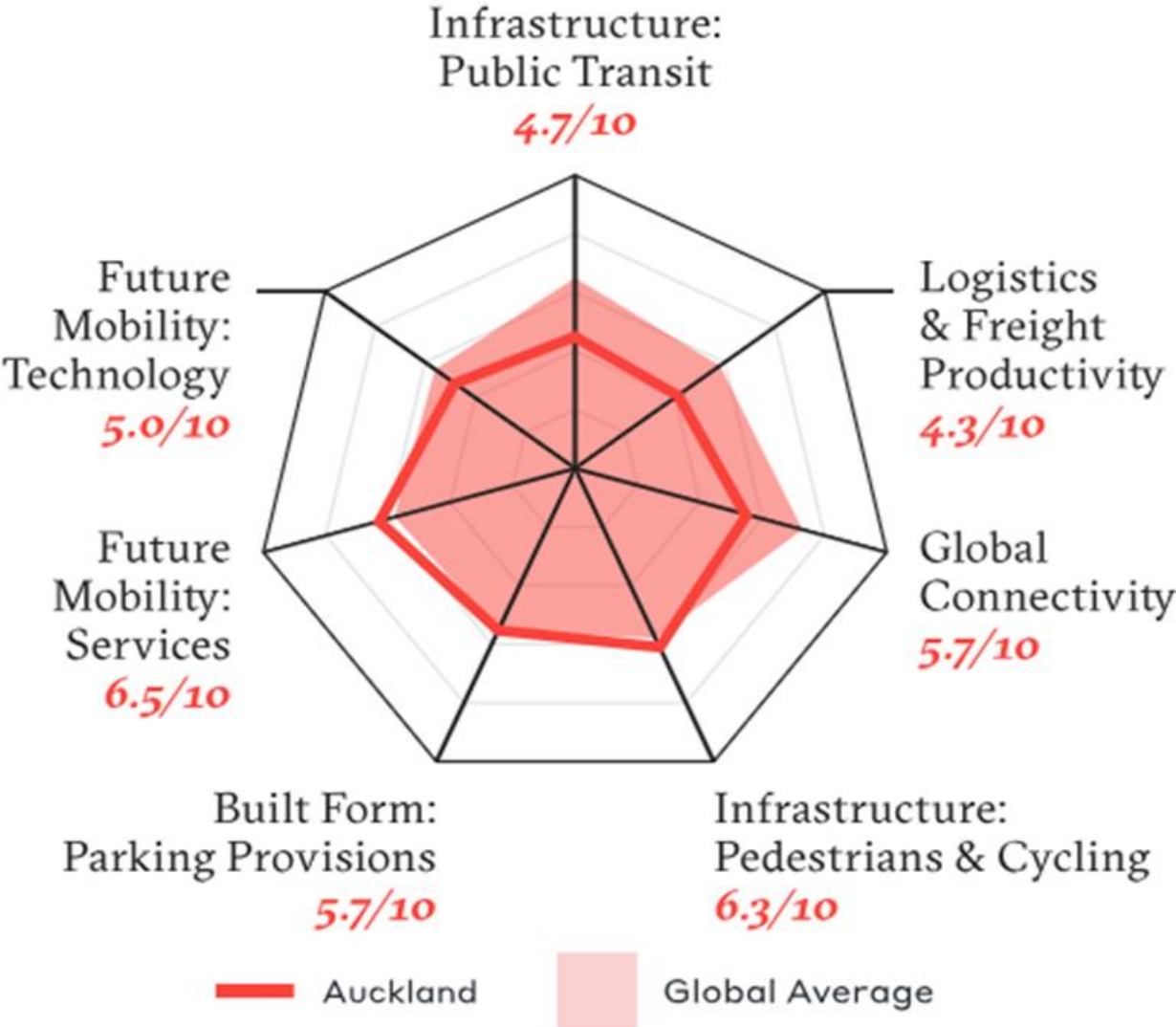Toronto
Vancouver
Washington DC

Future ready assessment

THEMES	PLACES	MOBILITY	TECHNOLOGY	URBAN SYSTEMS
KEY METRICS	Housing	Infrastructure: Public Transit	Fixed Internet	Power Generation & Distribution
	Public Realm	Logistics & Freight Productivity	Fixed Internet: Speeds & Feeds	Water Treatment & Distribution
	Urban Green Space	Global Connectivity	Mobile Internet: Wi-Fi, 5G, Narrowband & IoT	Waste Management
	Social Infrastructure	Infrastructure: Pedestrians & Cycling	Open Data	
	Climate Change	Built Form: Parking Provisions	Information & Data Security	
		Future Mobility: Services	Planning & Policy	
		Future Mobility: Technology		

1. Themes
2. Key Metrics
3. Guiding Questions for each Metric
4. Scoring the Questions (1-10)

MOBILITY

Score: 5.4/10 ●●●●●●○○○○

Auckland's Mobility theme

Infrastructure: Public Transit 4.7/10

Logistics & Freight Productivity 4.3/10

Global Connectivity 5.7/10

Infrastructure: Pedestrians & Cycling 6.3/10

Built Form: Parking Provisions 5.7/10

Future Mobility: Services 6.5/10

Future Mobility: Technology 5.0/10

— Auckland   Global Average

Auckland's pedestrians and cyclists 6.3/10

Auckland's issue: TRAFFIC SAFETY!!

Stockholm (9.0/10):

- *Target 20% cycle share by 2030 (now ~5%)*

- *Development of pedestrian friendly urban areas is prioritised*

Copenhagen (8.5/10):

- *41% of all trips to work is by bike today*

- *introduces continually measures to **deter** citizens from driving*

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Auckland's Public Transport 4.7/10

Photo: City Rail Link Ltd

ISSUES IN AUCKLAND:

- historical PT underinvestment gap

- not having the modal priorities right in planning & funding

The highest scores: ***Singapore 9/10, Beijing 8.5/10, Copenhagen 8/10, Stockholm 8/10***

All the cities with high PT scoring have extensive rail based PT network, which is developed further.

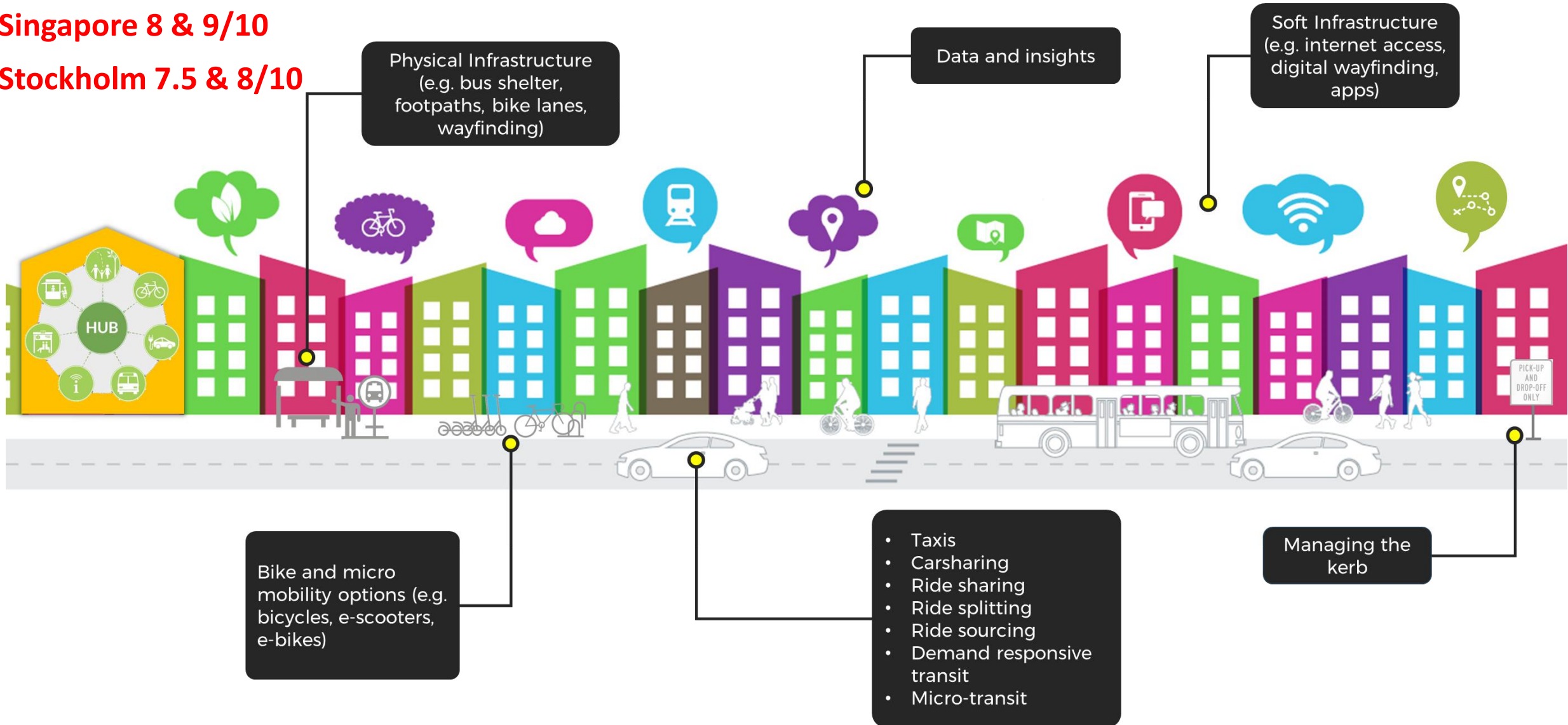*Cities comparable to AKL emphasize walkability and have extensive and high quality PT.*

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Auckland Future Mobility: Services & Technology (6.5 & 5.0/10)

Leading cities:

San Francisco 9 & 9/10

Singapore 8 & 9/10

Stockholm 7.5 & 8/10

Physical Infrastructure (e.g. bus shelter, footpaths, bike lanes, wayfinding)

Data and insights

Soft Infrastructure (e.g. internet access, digital wayfinding, apps)

Bike and micro mobility options (e.g. bicycles, e-scooters, e-bikes)

- Taxis
- Carsharing
- Ride sharing
- Ride splitting
- Ride sourcing
- Demand responsive transit
- Micro-transit

Managing the kerb

HUB

PICK-UP AND DROP-OFF ONLY

- Multidisciplinary
- Holistic
- Future ready

www.wsp-futurecities.com

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