



# **International Transport Forum**

# new mobility services

International Transport Forum | CPB



**Urban Mobility System Upgrade**  
How shared self-driving cars could change city traffic



OECD

International Transport Forum | CPB



**Shared Mobility**  
Innovation for Liveable Cities



OECD

International Transport Forum | CPB

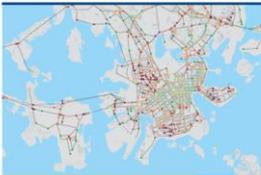


**Transition to Shared Mobility**  
How large cities can deliver inclusive transport services



OECD

International Transport Forum

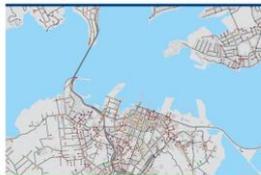


**Shared Mobility Simulations for Helsinki**



OECD

International Transport Forum



**Shared Mobility Simulations for Auckland**



OECD

International Transport Forum

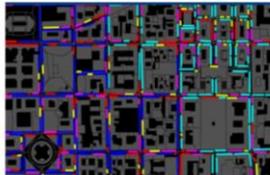


**Shared Mobility Simulations for Dublin**



OECD

International Transport Forum | CPB



**The Shared-Use City: Managing the Curb**



OECD

International Transport Forum | CPB



**App-Based Ride and Taxi Services**  
Principles for Regulation



OECD

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**Shaping the Relationship Between Public Transport and Innovative Mobility**



OECD

# data, data science, new technologies

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**Big Data and Transport**  
Understanding and assessing options



Cooperation Partnership Board Report

OECD

International Transport Forum | CPB



**Data-Driven Transport Policy**



Cooperation Partnership Board Report

OECD

International Transport Forum | CPB



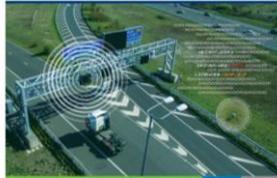
**Blockchain and Beyond: Encoding 21<sup>st</sup> Century Transport**



Cooperation Partnership Board Report

OECD

International Transport Forum | CPB



**Data-led Governance of Road Freight Transport**  
Improving compliance



Cooperation Partnership Board Report

OECD

International Transport Forum | CPB



**Automated and Autonomous Driving**  
Regulation under uncertainty



Cooperation Partnership Board Report

OECD

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**Safer Roads with Automated Vehicles?**



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**(Un)certain Skies? Drones in the World of Tomorrow**



Cooperation Partnership Board Report

OECD

# (r)evolutions

slogans



Smart. everything. now.









**EVS**  
Equipe de Voluntários  
Esportivos do Rio de Janeiro

EDX OGX

R.T.N

Paz

Projeto

Projeto

Projeto







access

convergence  
(re) framing  
(re) spacing

# convergence

mobility in the city





trucks/vans



walk



public  
transport



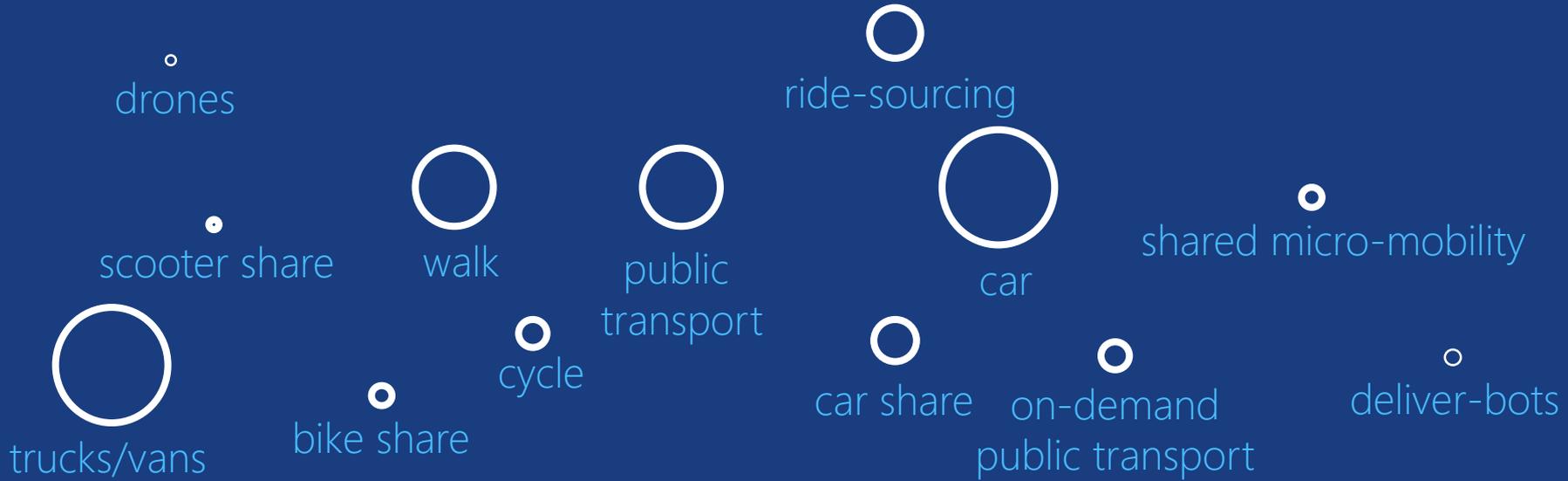
car



cycle

# mobility in the city





# mobility in the city





drones

ride-sourcing

scooter share

walk

public

car

shared micro-mobility



trucks/vans



cycle



bike share

transport



car share



on-demand  
public transport



deliver-bots

# digitilisation





drones

ride-sourcing

scooter share

walk

public

car

shared micro-mobility



trucks/vans



cycle



car share



on-demand  
transit



deliver-bots



bike share

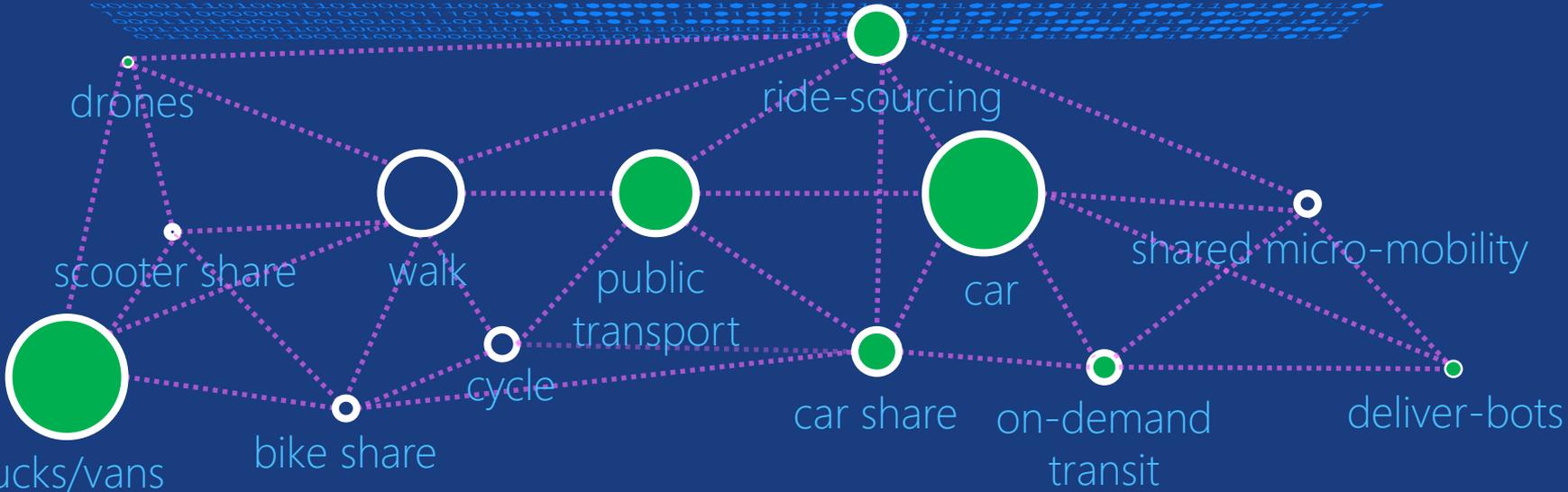
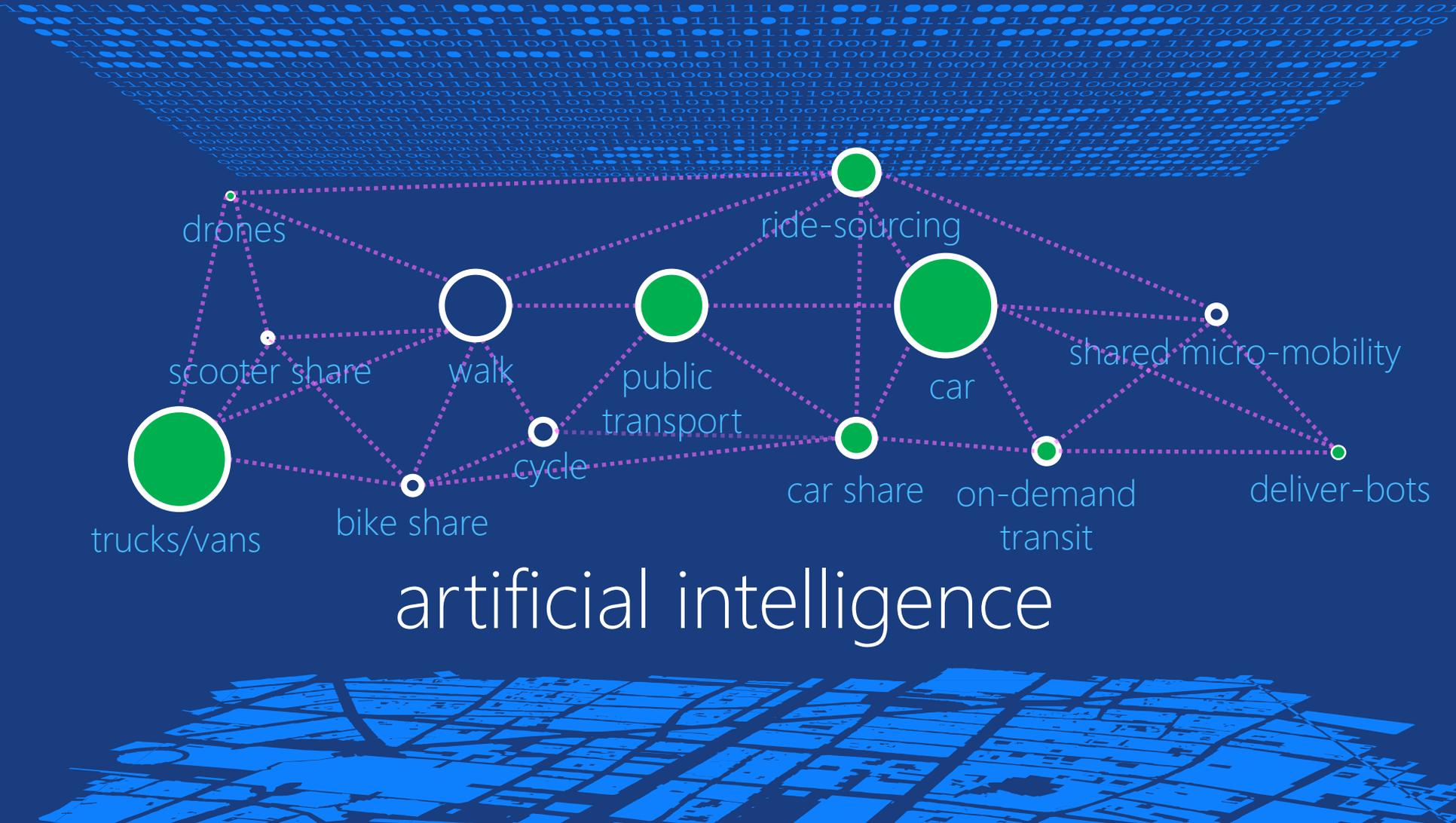


transport

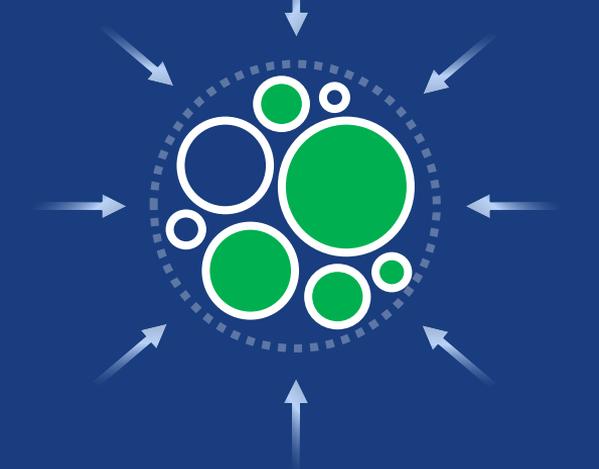


# automation





artificial intelligence



convergence



mobility

~~mobility~~ : city use

education

health care

government

city

mobility as a service

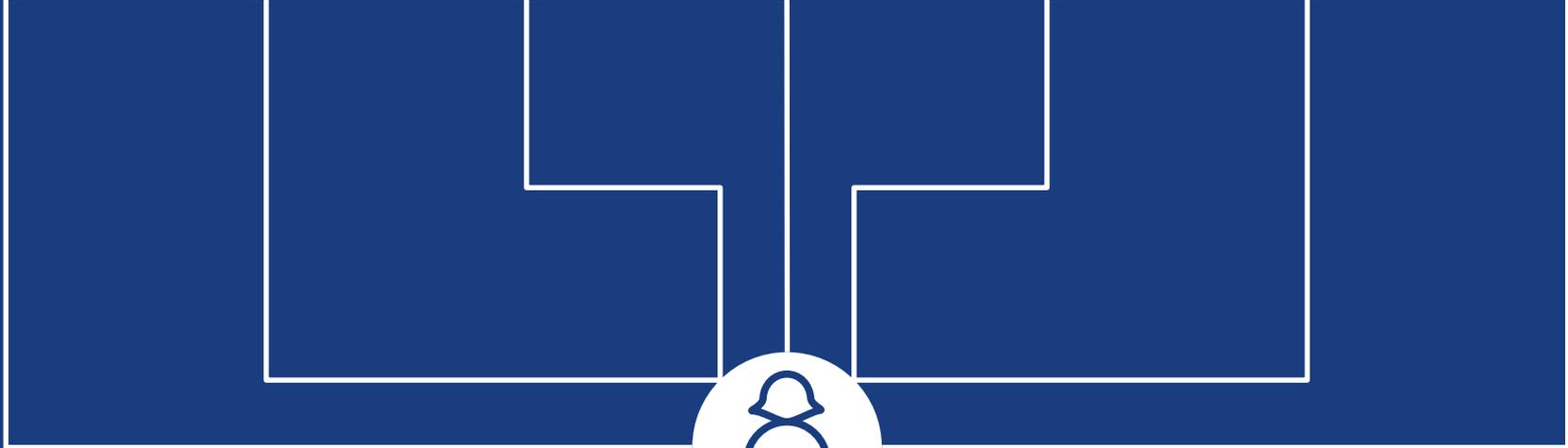
infrastructure

energy

banking

water







MaaS Platform



You and I



platform

platform

platform

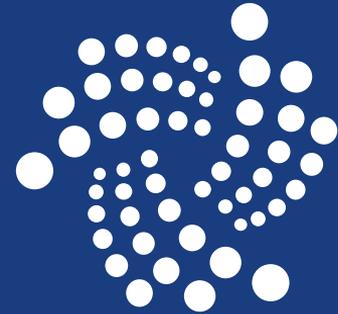
platform



# data science



today



IOTA

tomorrow

# distributed ledger technologies

dis-intermediated

distributed

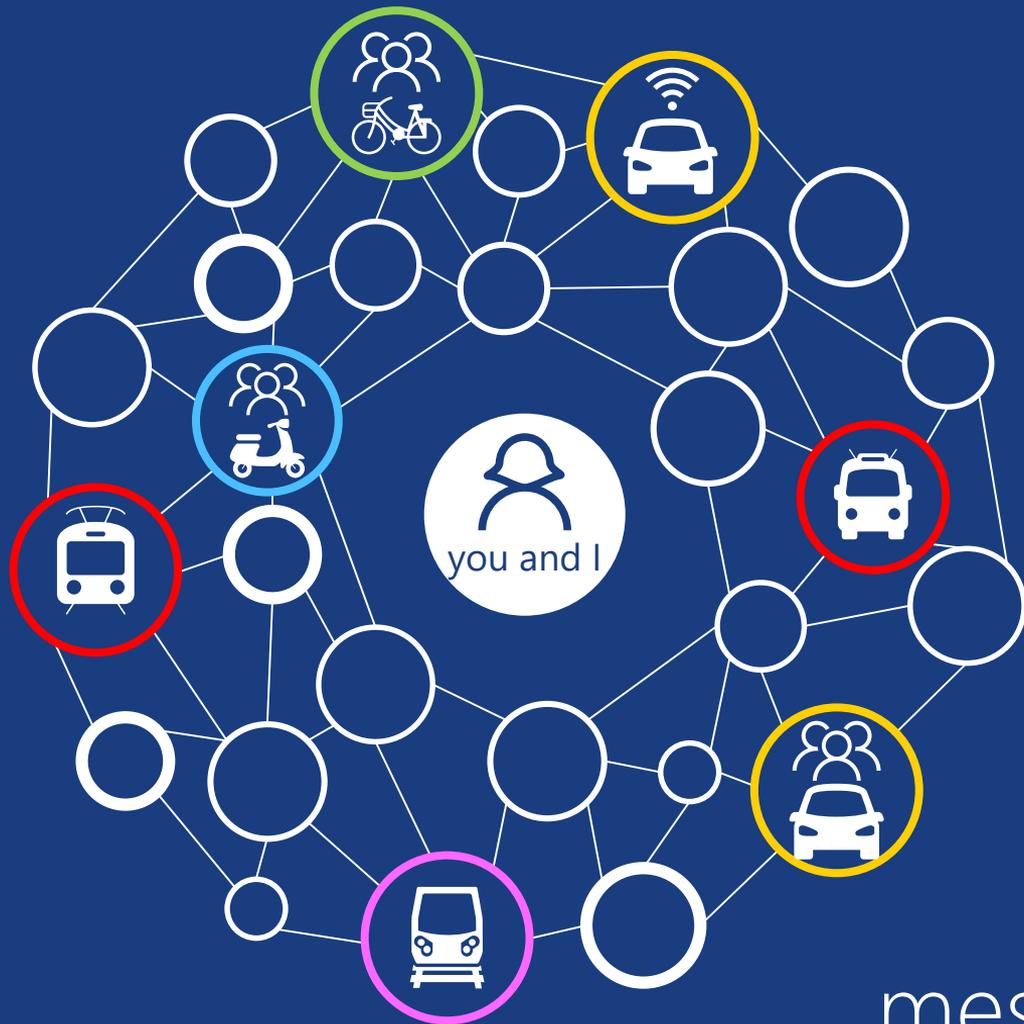
disruptive

trust frameworks

-- *where* –

data speaks to data

sometimes transacts automatically



meshy-y MaaS

# building meshy-y MaaS

who?

digital ID

what?

open, standard and mandatory API-served data (e.g. APDS)

where?

common open data syntax for spatial representation (e.g. [sharedstreets.io](https://www.sharedstreets.io/))

(re) framing

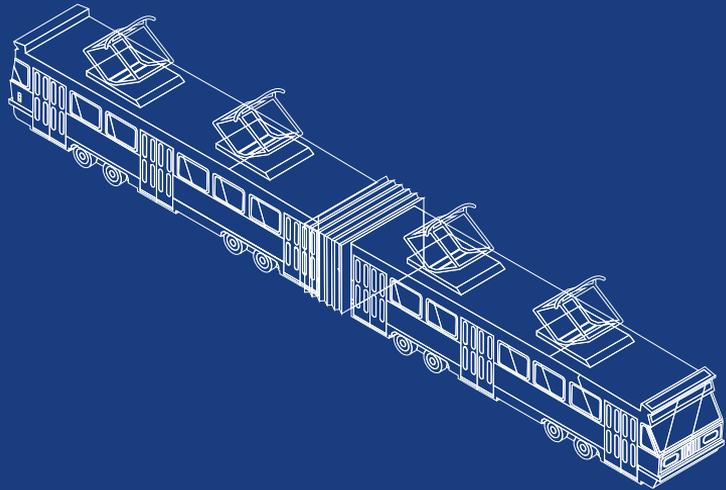
public : individual

do I own it? : am I just using it?

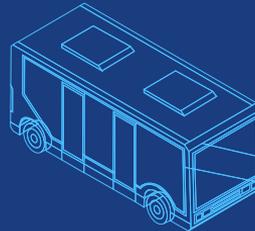
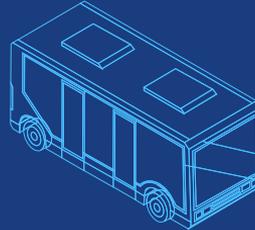
agent-based (dispatcher, clients, vehicle), geospatial networks, synthetic trip population, non-dynamic effects, lexicographical mode choice (locally calibrated choice model), 4 (5) modes.



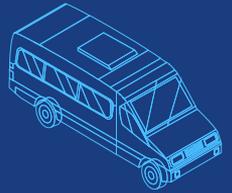
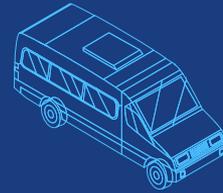
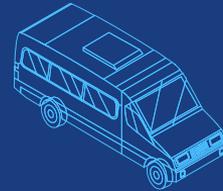
cycling/walking



high-capacity public transport



on-demand taxi-bus



door-to-door shared taxis

# car fleet



-97%

-93%

-97%

-96%



**eliminate**  
all on-street parking



**+20%**  
kerb-to-kerb street space



**-80%**

off-street parking









System

P

DANMARK 306

PZ 93 830

TT 91 028

DG 23 092

BILKØPTEH

2 FRI 99%  
2 FRI 99%  
2 FRI 99%  
2 FRI 99%  
2 FRI 99%

NO ENTRY

NO ENTRY

NO ENTRY

NO ENTRY

-48% to -51%

Whole Lisbon Metro Area

Outside center

vehicle kilometres 24hr

# CO<sub>2</sub> emissions



-31%



-54%



-62%



-34%



80E Nationaltheatret  
ekspress

1200

Ruter



SOLARIS

DN-74036

40

# public transport



+54%

+681%

+47%

+30%

+ access

30mn access to jobs

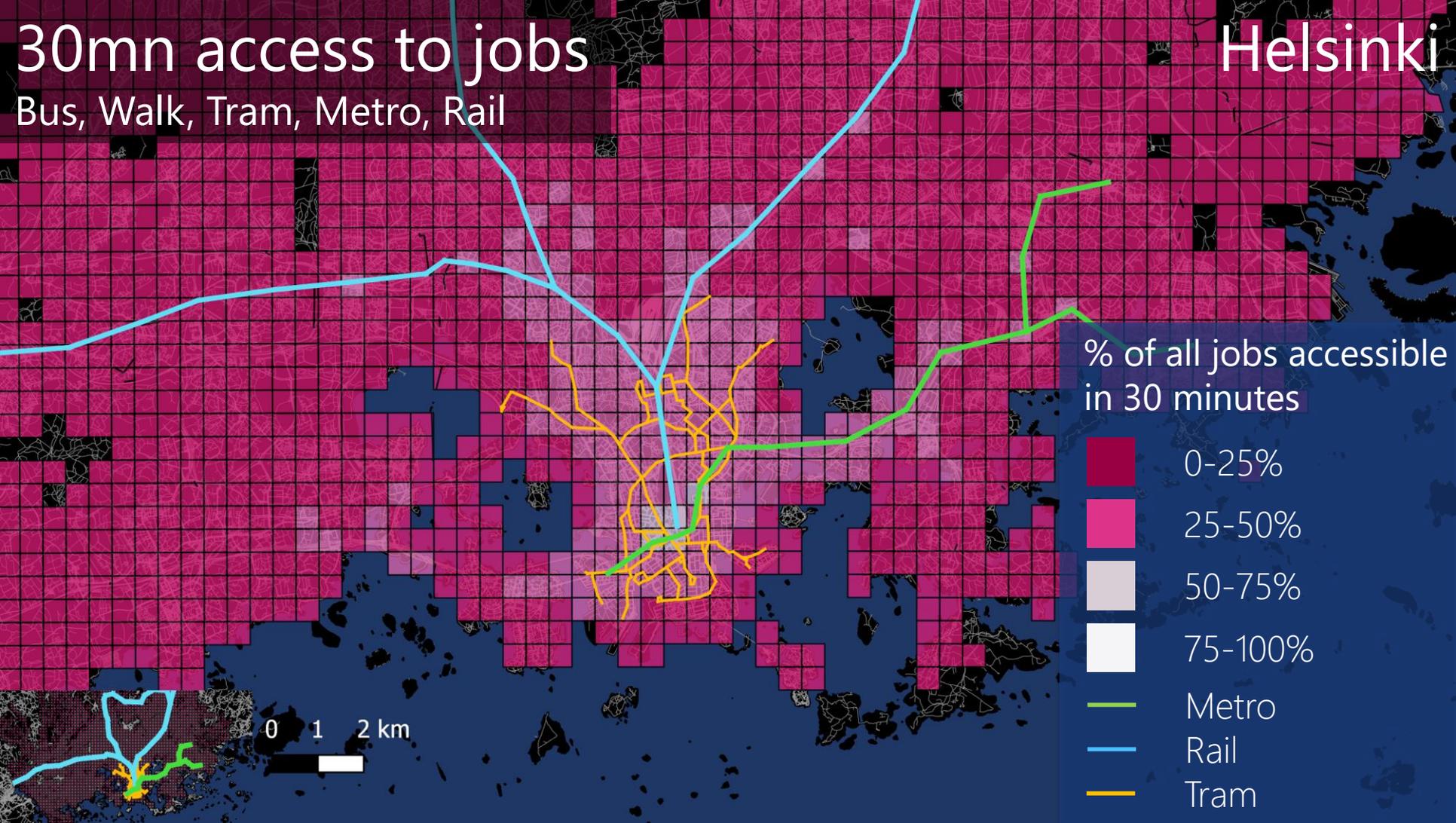
Helsinki



# 30mn access to jobs

Bus, Walk, Tram, Metro, Rail

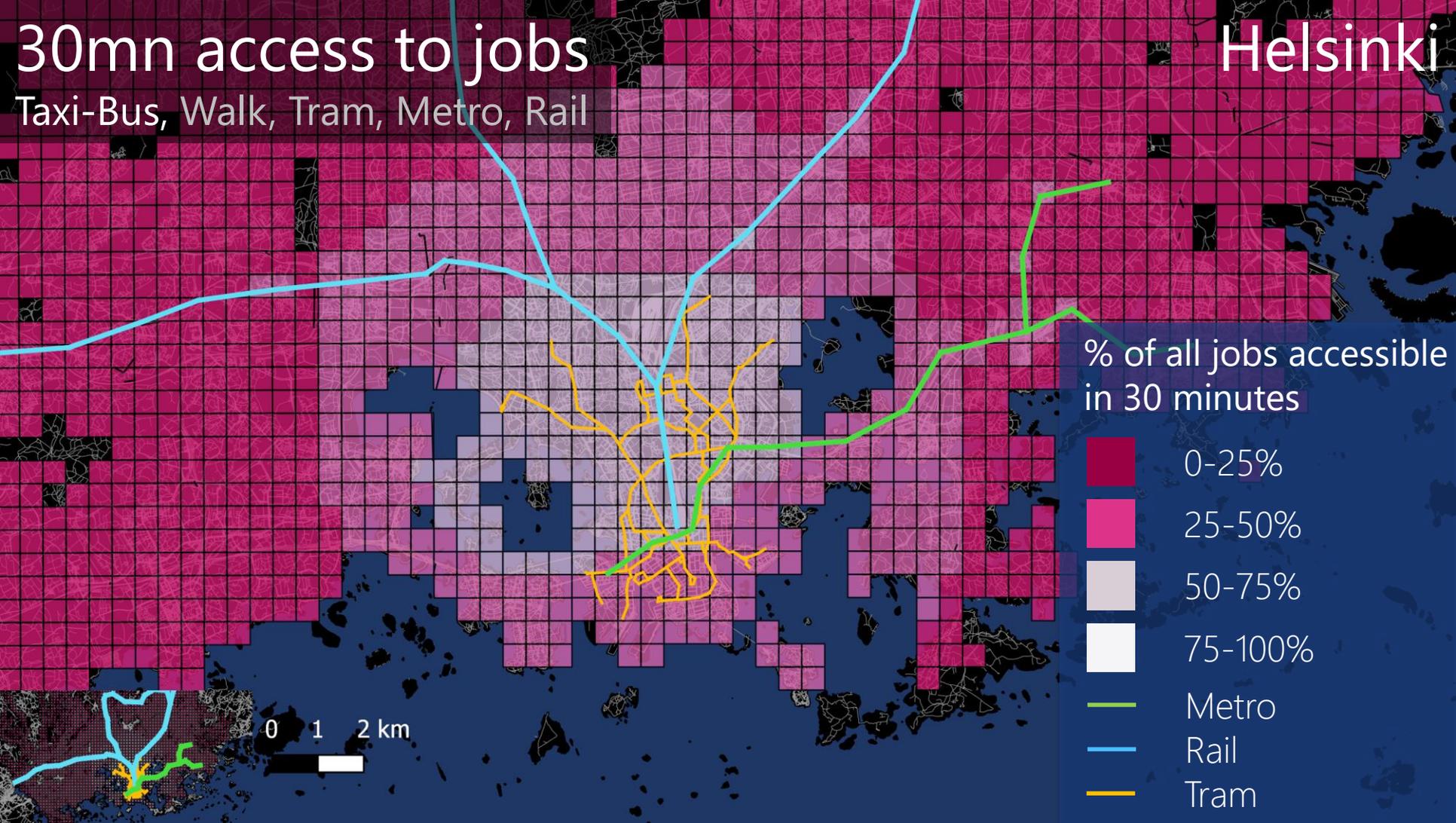
# Helsinki



# 30mn access to jobs

Taxi-Bus, Walk, Tram, Metro, Rail

# Helsinki



0 1 2 km

# access



+183%

+254%

+589%

+111%

(re)spacing



parking city ⇨ pick-up/drop-off city

CURB

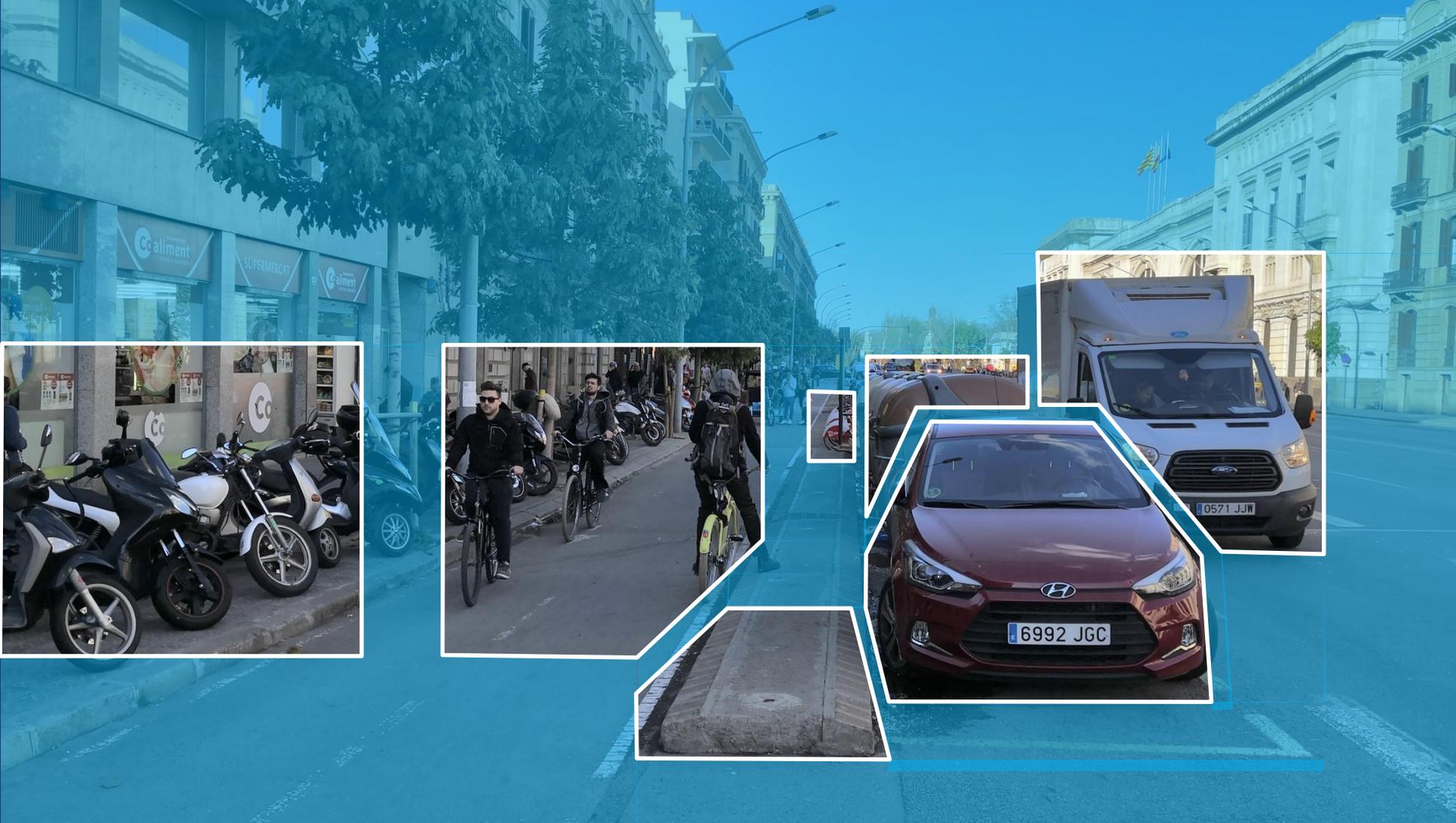
FACE



Coalimint  
SUPERMERCAT  
Coalimint

0571 JJW

6992 JGC









6F7132

BEST ON THE ROAD  
California  
FEB 2014  
6LPR265  
EDEN MOTOR GROUP

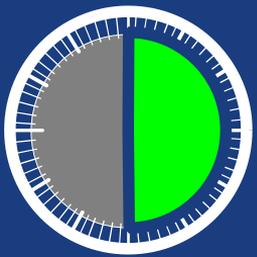
CAMRY

LE

curbs as flexible, dynamic,  
self-adjusting spaces

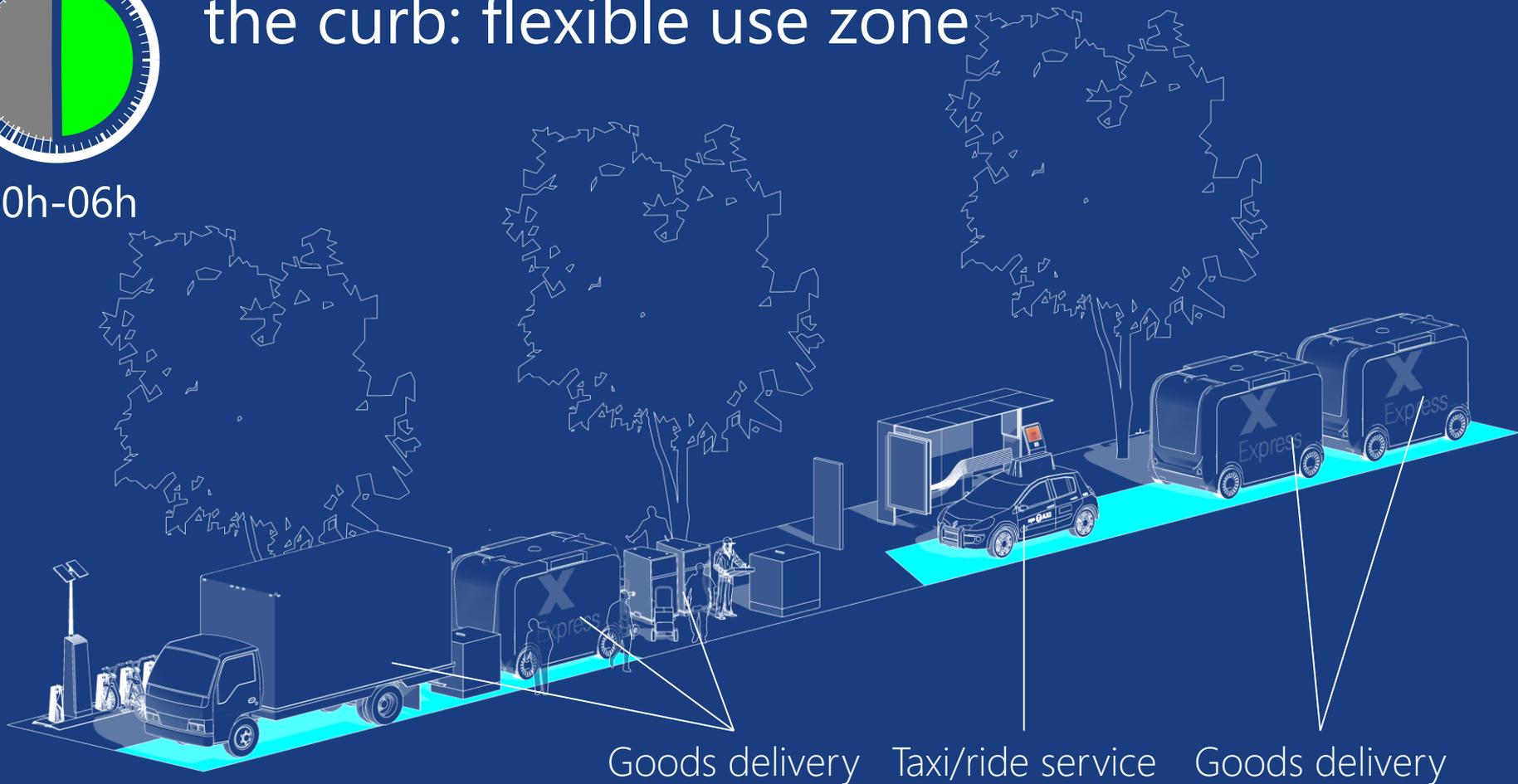
# the curb: vehicle storage





# the curb: flexible use zone

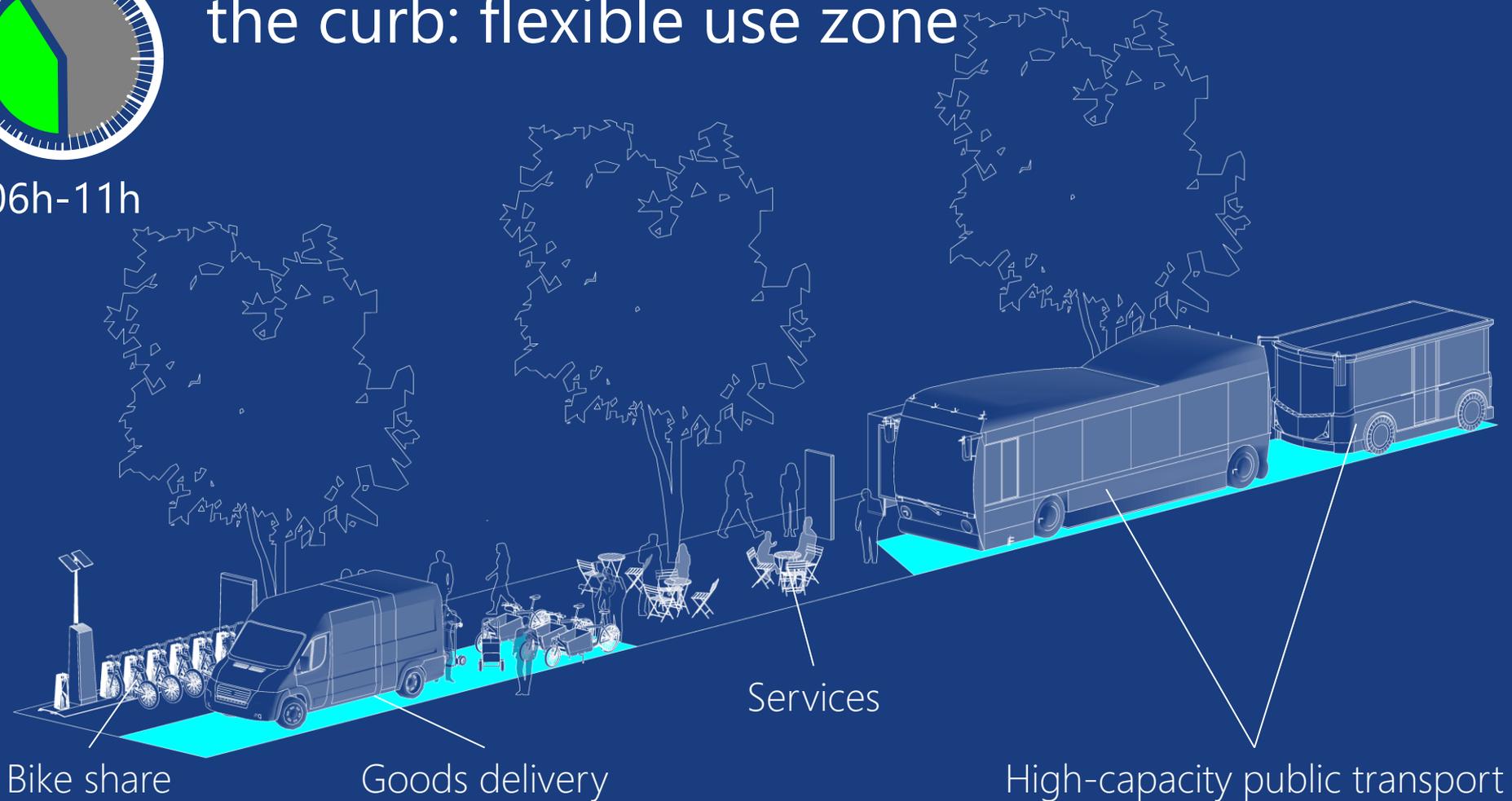
00h-06h





# the curb: flexible use zone

06h-11h



Bike share

Goods delivery

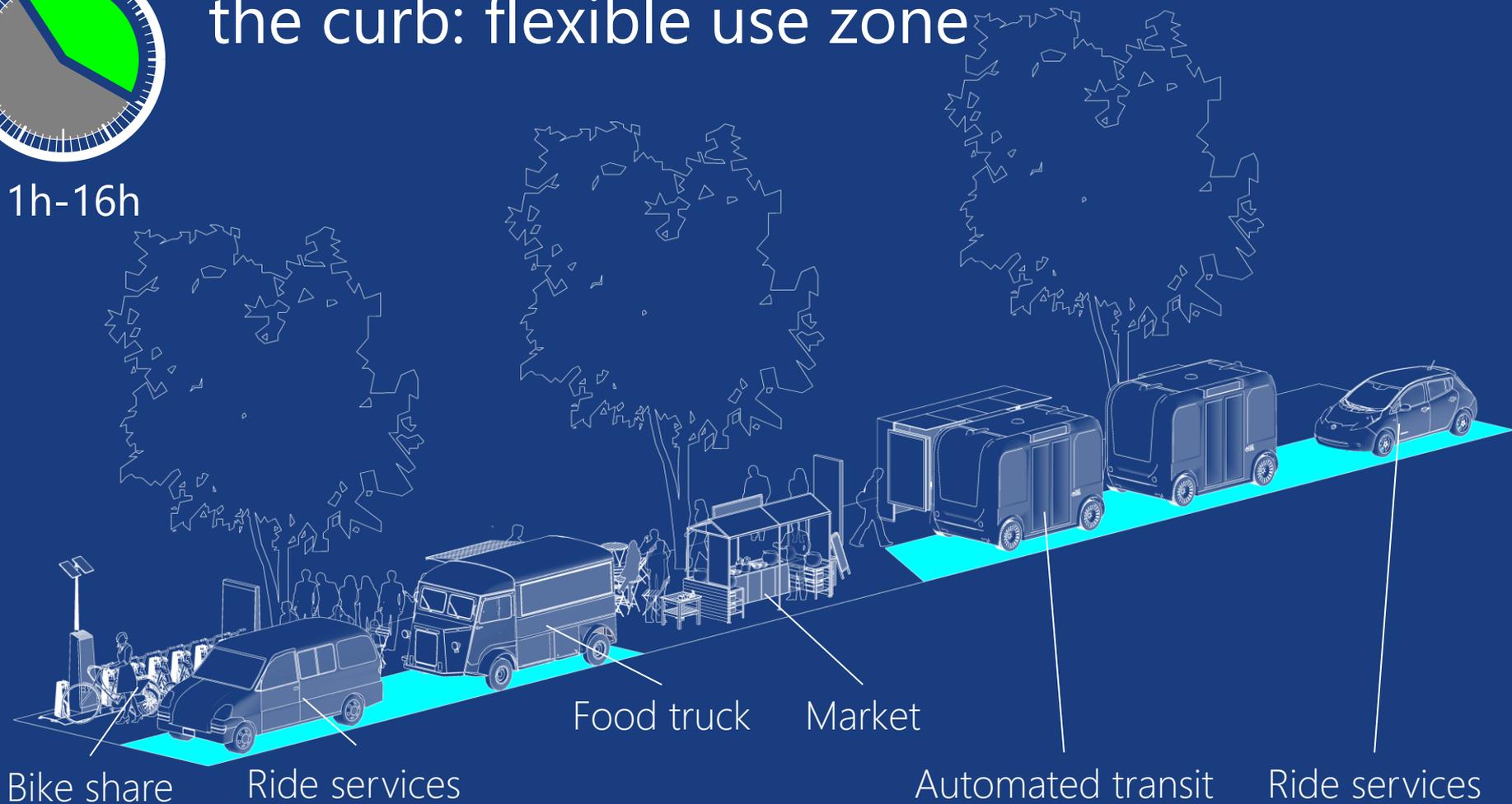
Services

High-capacity public transport



# the curb: flexible use zone

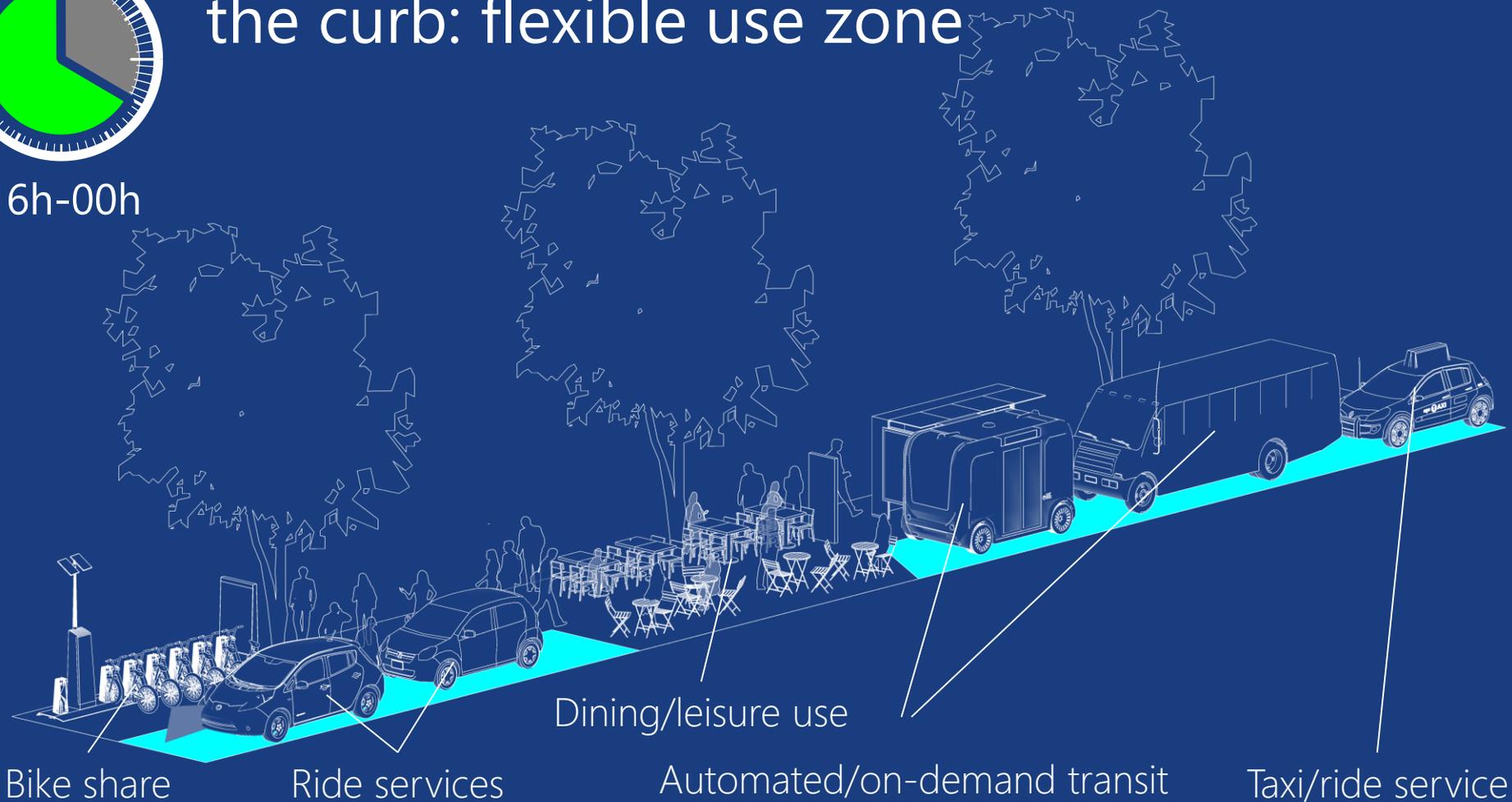
11h-16h





# the curb: flexible use zone

16h-00h



Bike share

Ride services

Dining/leisure use

Automated/on-demand transit

Taxi/ride service

code the curb

  
15min  
830AM - 915AM  
1115AM - 115PM  
315PM - 345PM  
← MON - FRI

  
830AM - 500PM  
MON - FRI →

  
8AM - 830AM  
915AM - 1115AM  
115PM - 315PM  
345PM - 5PM  
←

  
12:01AM - 7AM <sup>7D</sup>  
EXCEPT  
BY PERMIT

# PARKING GUIDE

	MON-FRI	SAT	SUN	12am	MON-FRI	SAT	SUN
3am							
7am							
8am							
9am							
4pm							
6pm							
8pm							
12am							

PARKING   
 NO PARKING   
 NO STOPPING   
 TOW-AWAY   
 PASSENGER LOADING

To Recover Impounded Vehicle CALL 3-1-1

For more information visit [parkinginfo.lacity.org](http://parkinginfo.lacity.org)

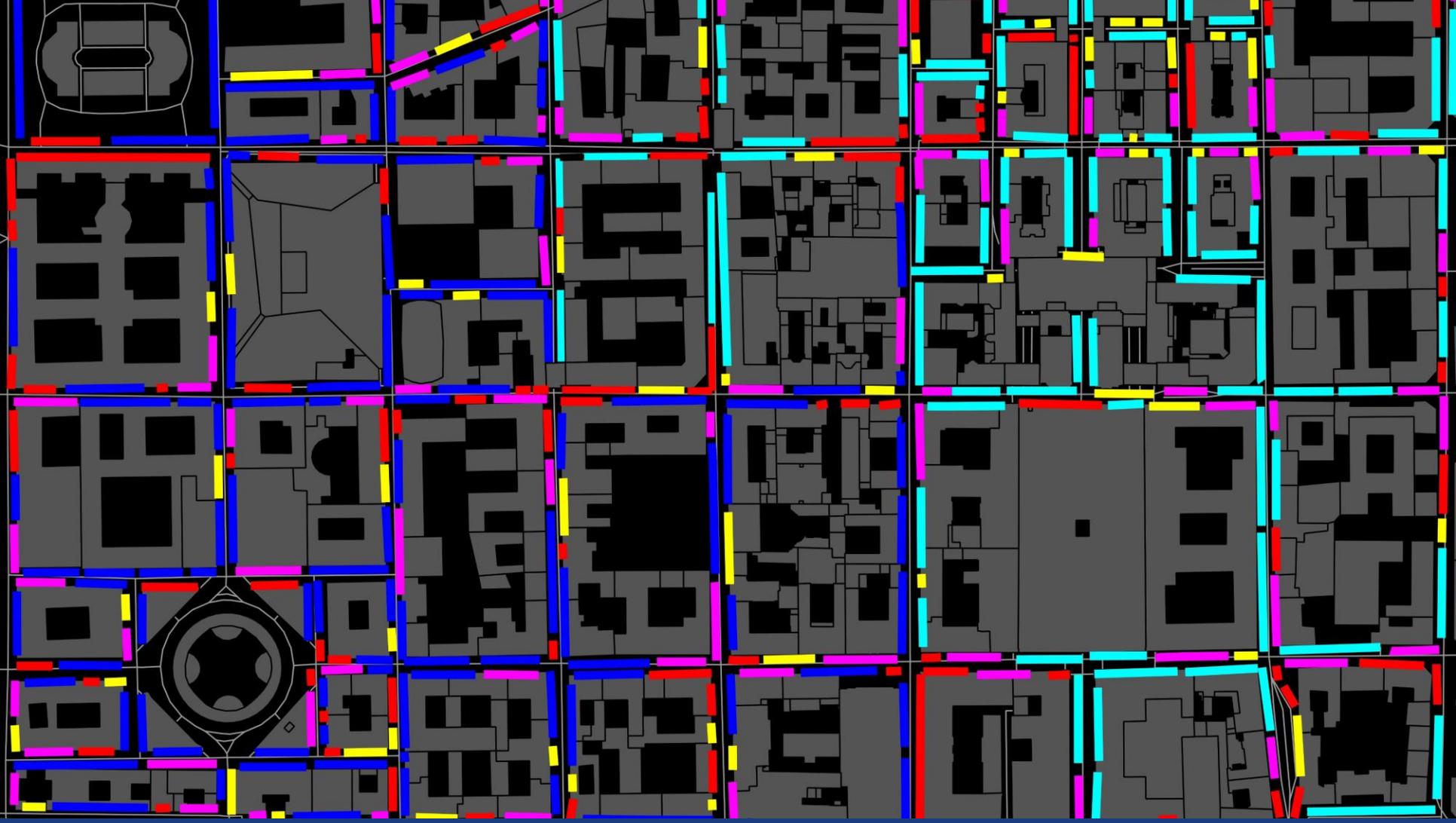
# PARKING GUIDE

	MON-FRI	SAT	SUN
12am			
7am			
8am			
9am			
4pm			
6pm			
8pm			
12am			

PARKING   
 NO PARKING   
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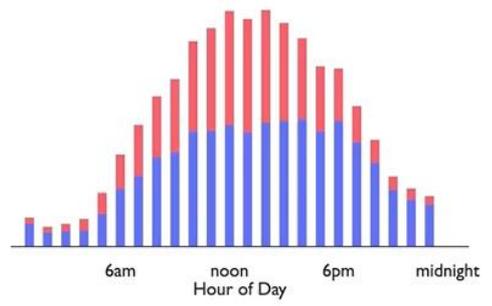


### Taxi/TNC Analysis

#### Pick-up/Drop-off by Hour of Day

Total by hour for November 2017

■ Pick-up
 ■ Drop-off



#### Filters

Days of Week



Hours of Day



general mobility feed specification

....

general public space use feed  
specification

make room for public transport, ride services and freight delivery at the curb where (and when) this aligns with strategic priorities



UBER

lyft

PICK-UP



[Home](#) » [Washington, DC News](#) » DC to restrict Dupont...

700

## DC to restrict Dupont Circle parking on weekend nights



By [Neal Augenstein](#) | [@AugensteinWTOP](#)  
October 4, 2017 6:56 am



make room for new uses and users when  
this aligns with policy objectives





anticipate revenue impacts of shifting  
from parking to pick-up and drop-off



“curb-kiss” pricing to manage demand

algorithmic governance and  
</regulatory code>



future obsolescence  
pivot-culture  
open vs. closed ecosystems



# mobility (r)evolutions

water

education

health care

government

city as a service

mobility

infrastructure

energy

banking