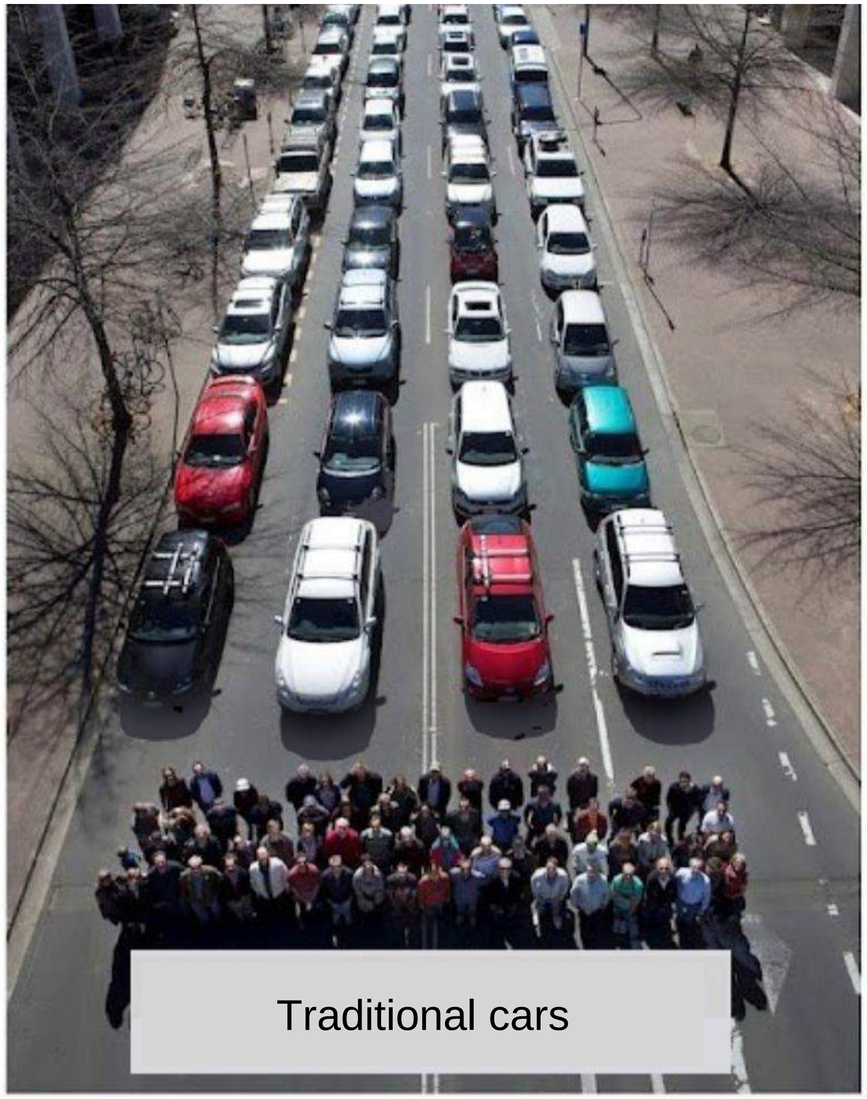
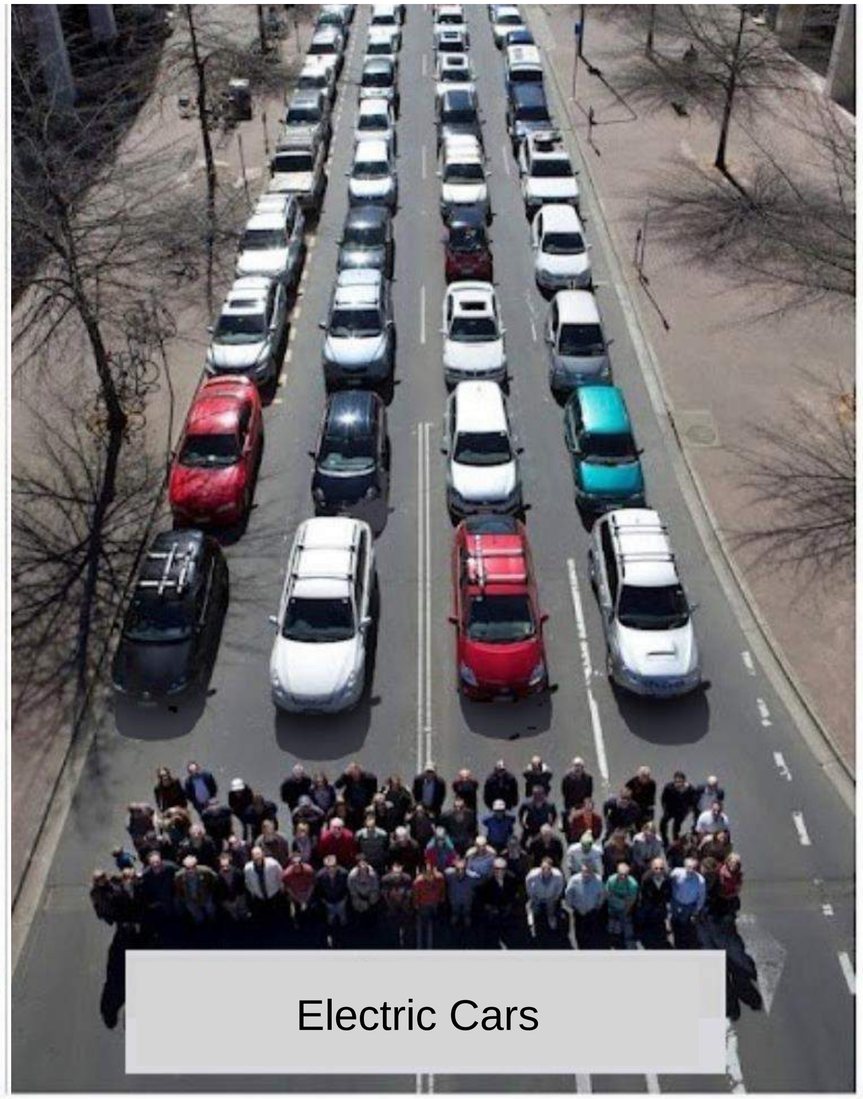
Traffic

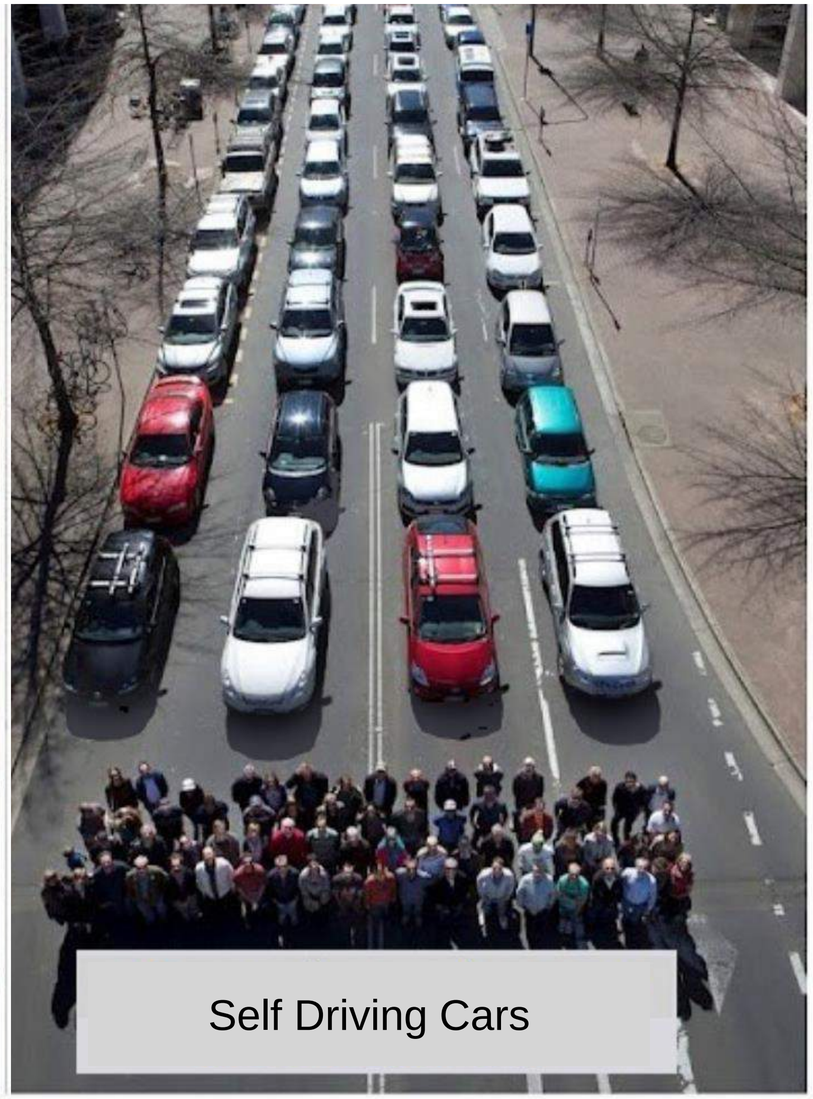
No freeway is big enough

Traffic

Electric and Self-Driving cars are not enough

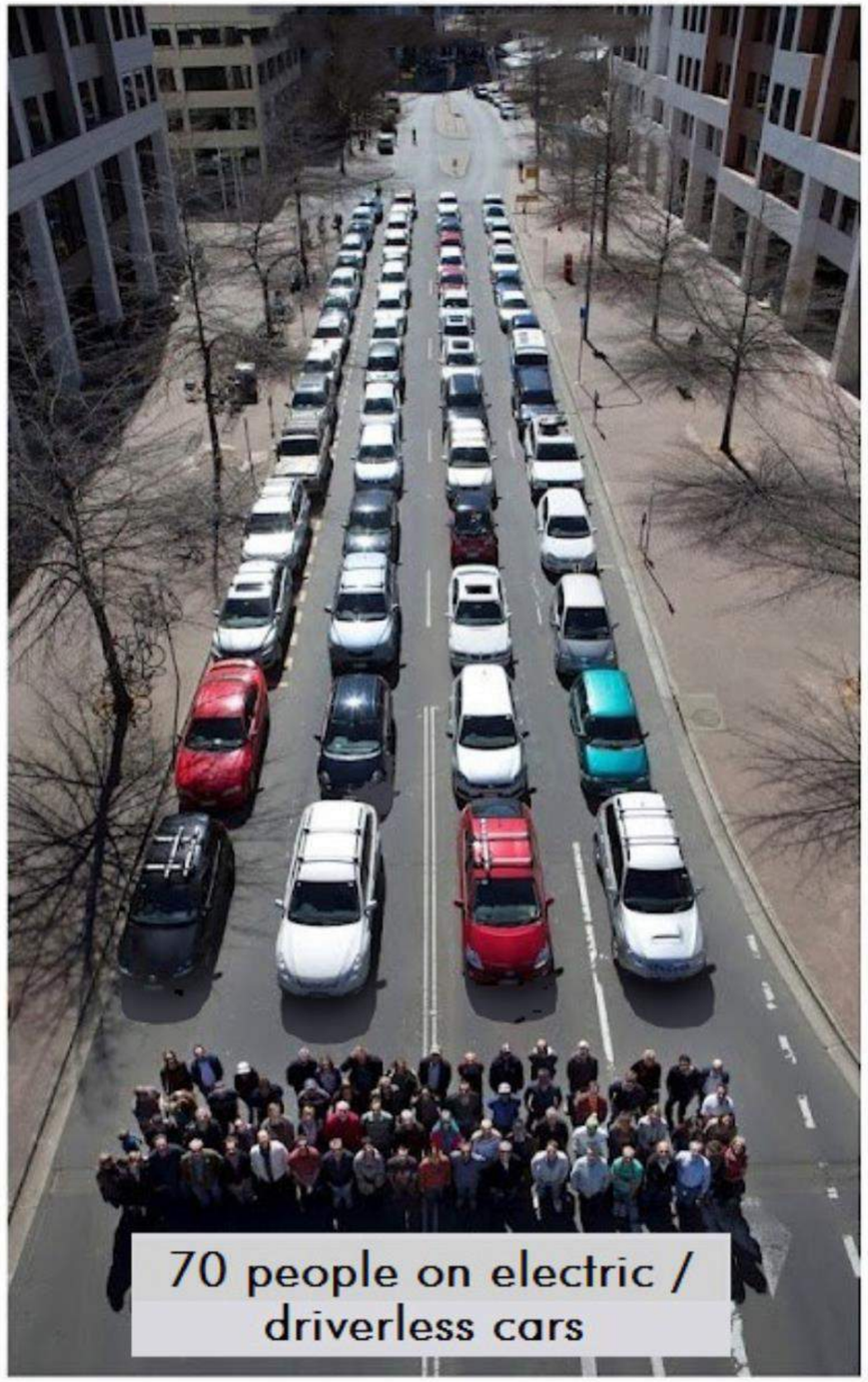




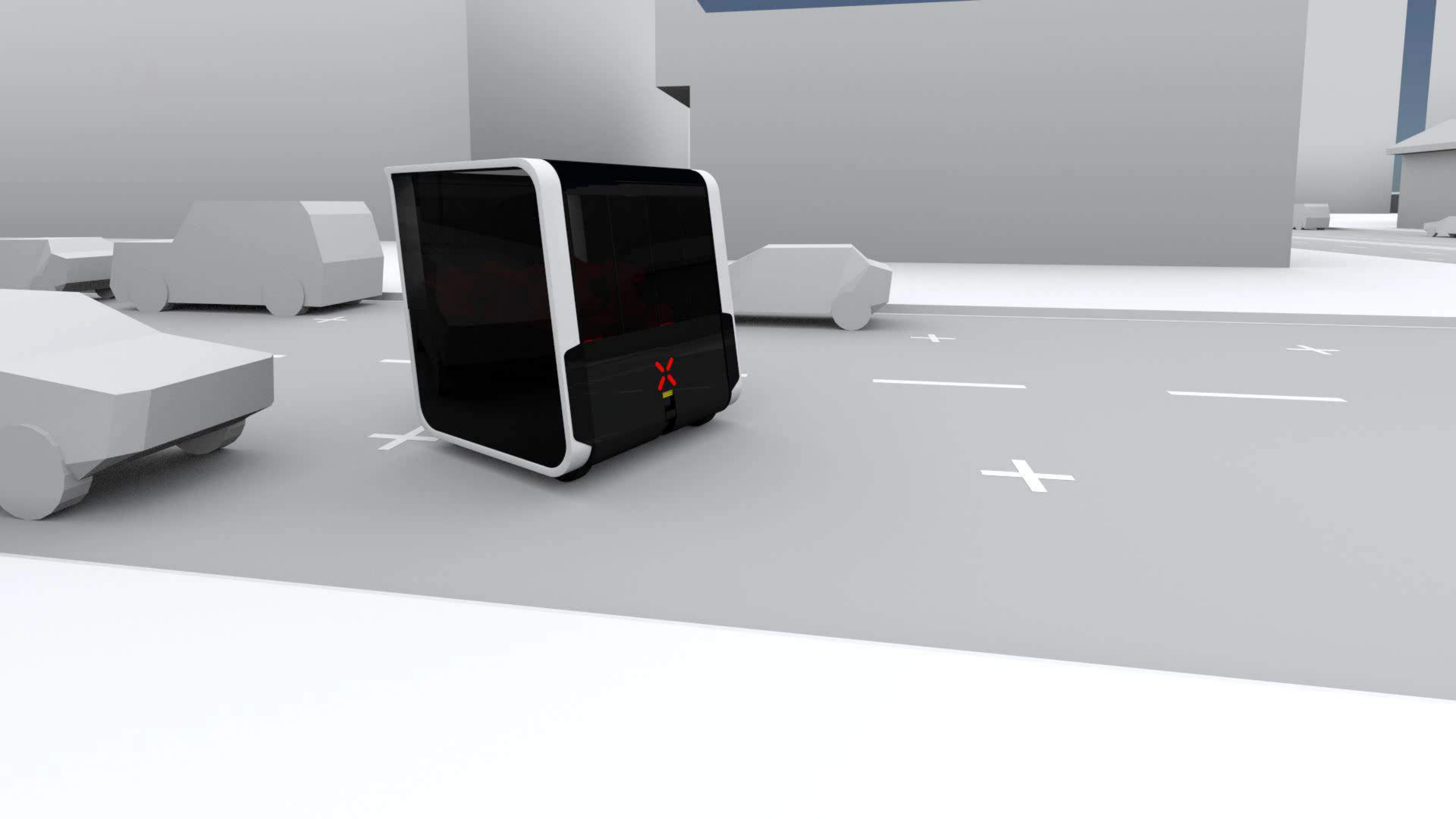


“We don’t want only to create cars doing what humans can already do.

We are creating a new kind of vehicles capable to do what no human can do.”



Information Classification: General



What if we can **redistribute** passengers **in motion?**

Passengers can walk among connected units

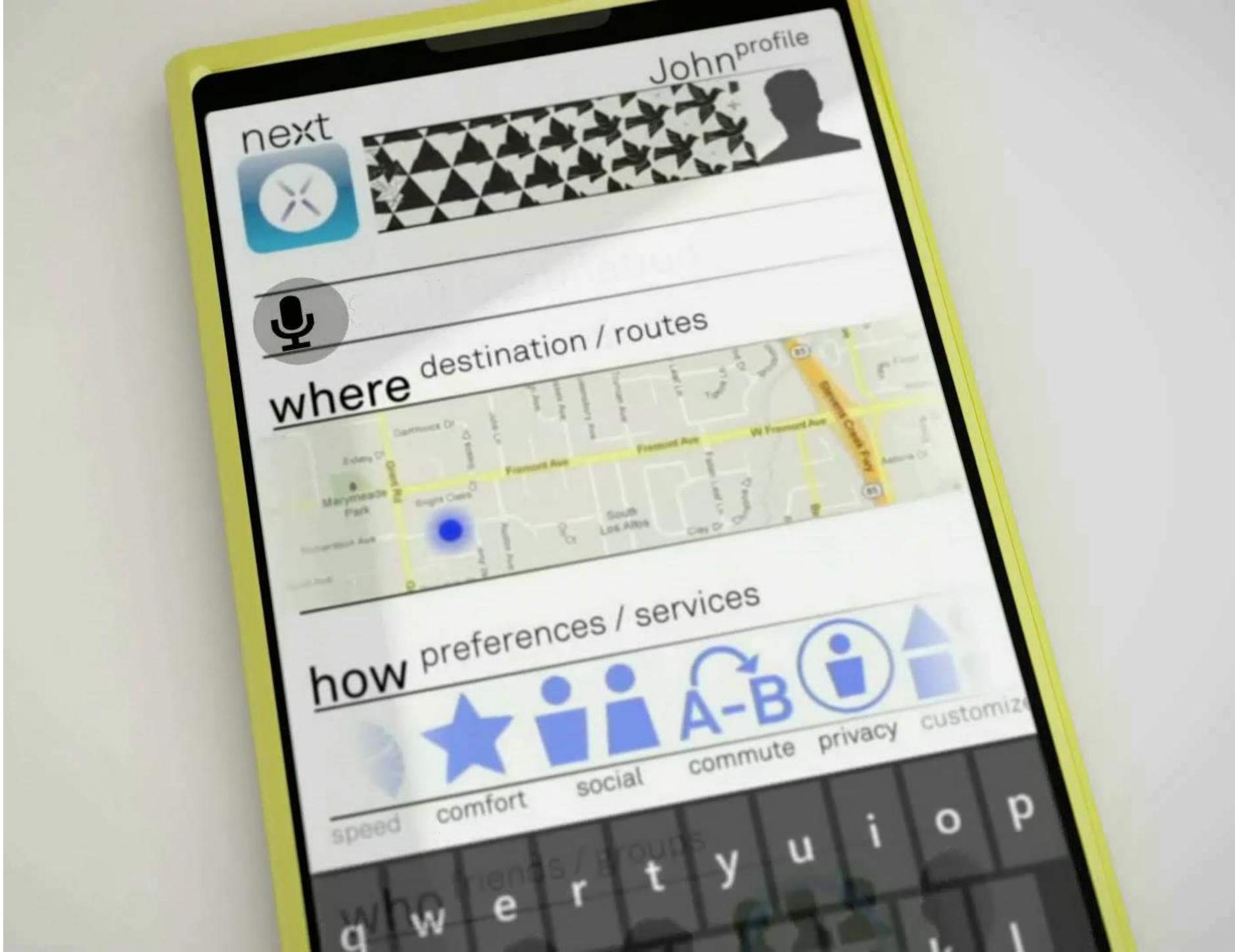
to redistribute according to the destinations

Information Classification: General

Ubiquitous as an on demand taxi

Efficient as a full bus

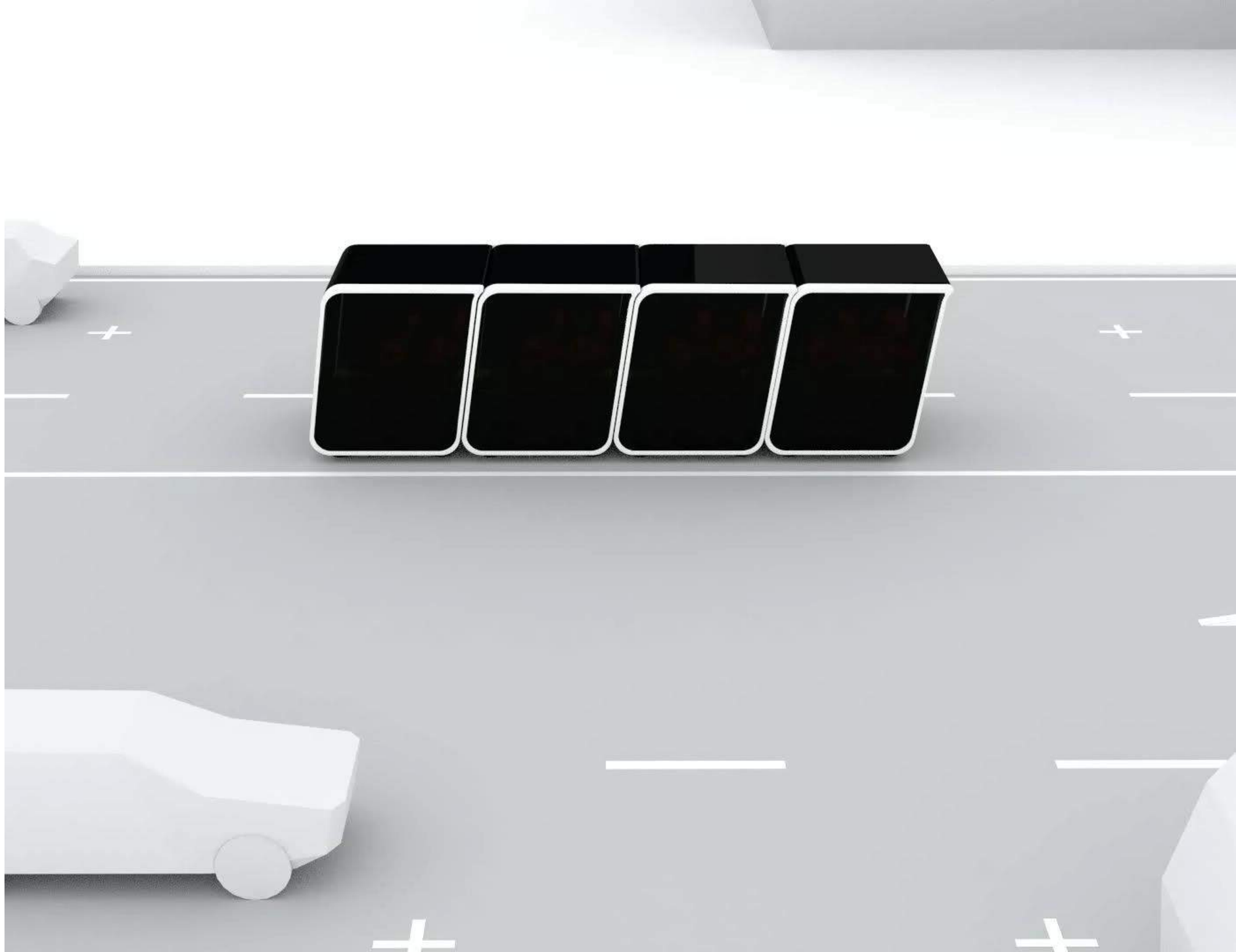
Confortable as a lounge



Ubiquitous as an
on demand taxi

Efficient as a
full bus

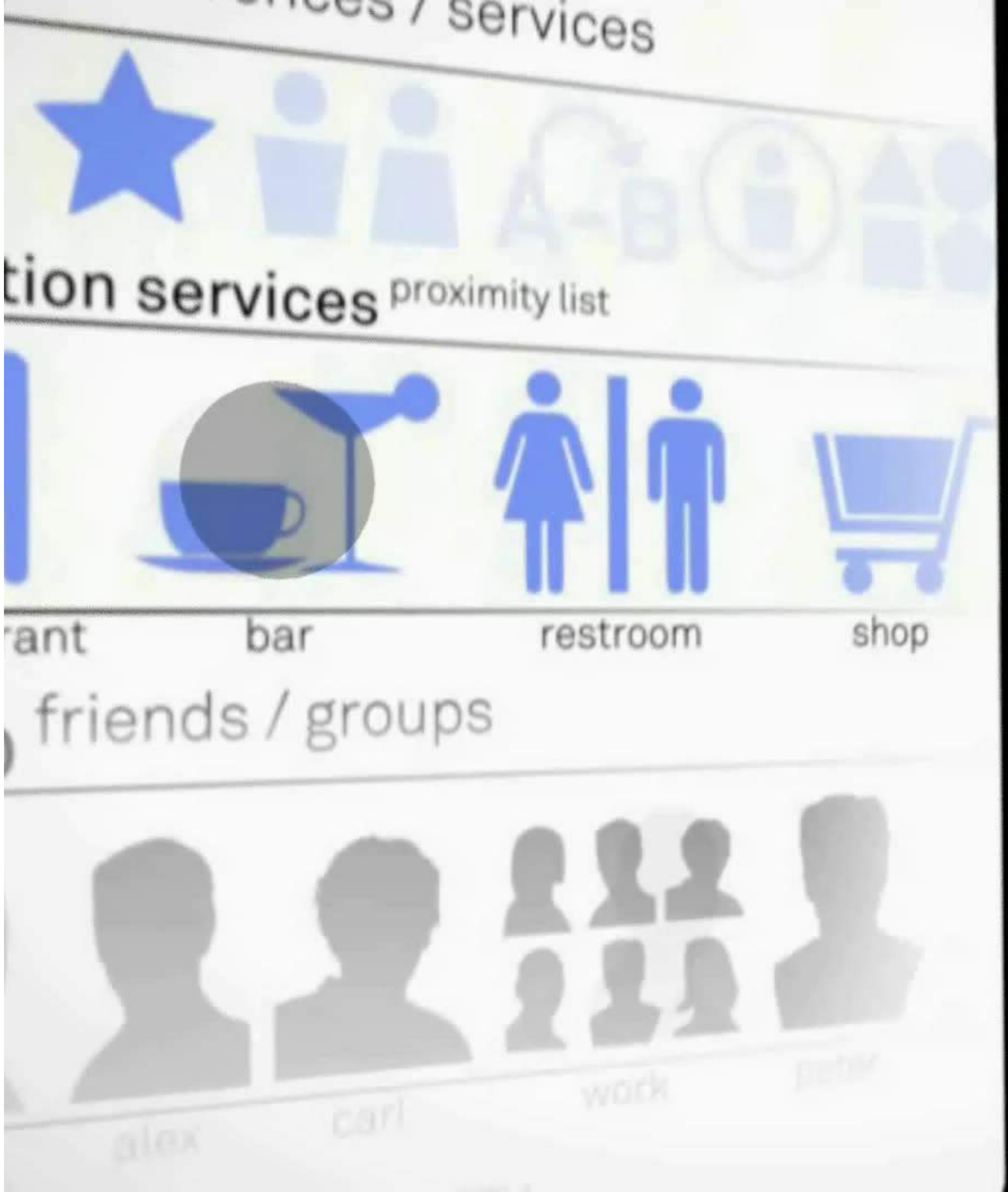
Confortable
as a lounge



Ubiquitous as an on demand taxi

Efficient as a full bus

Confortable as a lounge



Some numbers

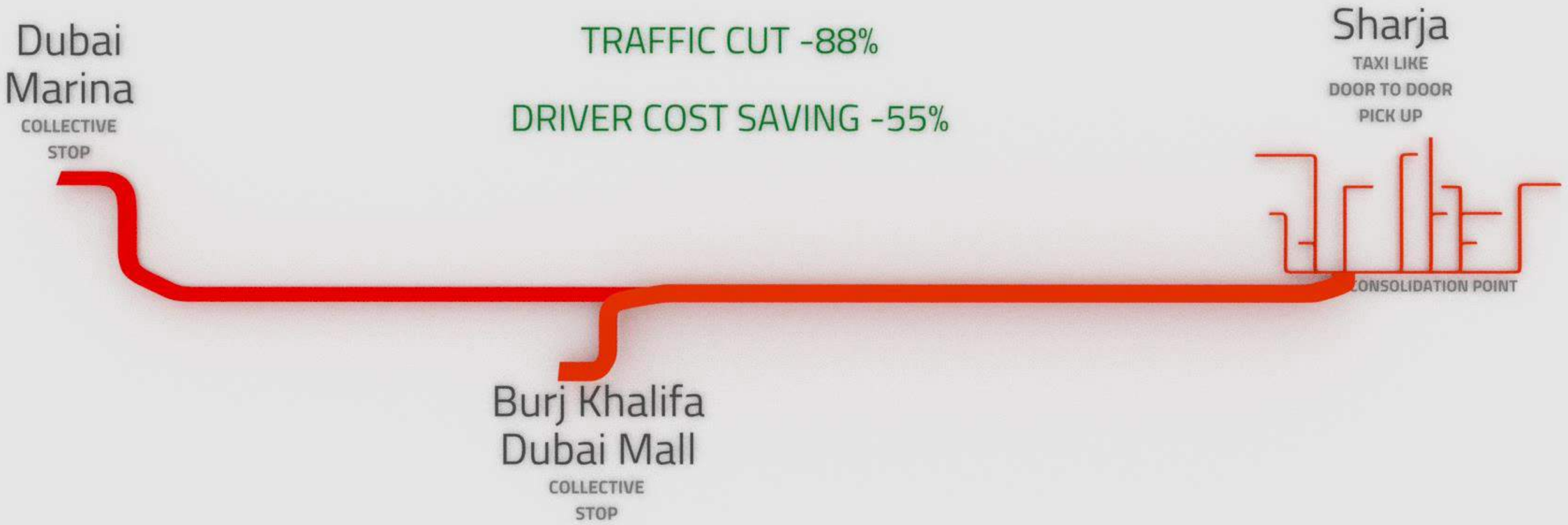
Information Classification: General

NEXT vs TAXI

CAPACITY BOOST +138%

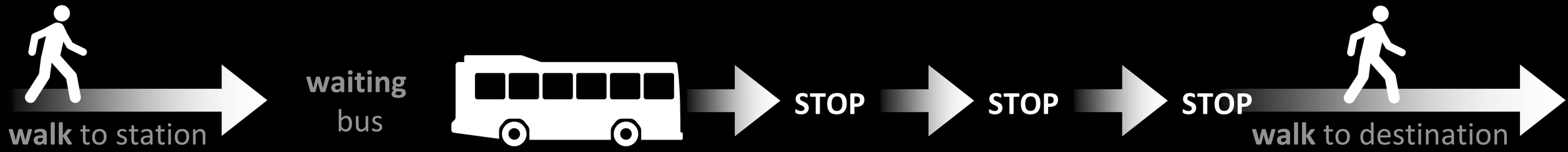
TRAFFIC CUT -88%

DRIVER COST SAVING -55%



TRAVEL TIMELINE

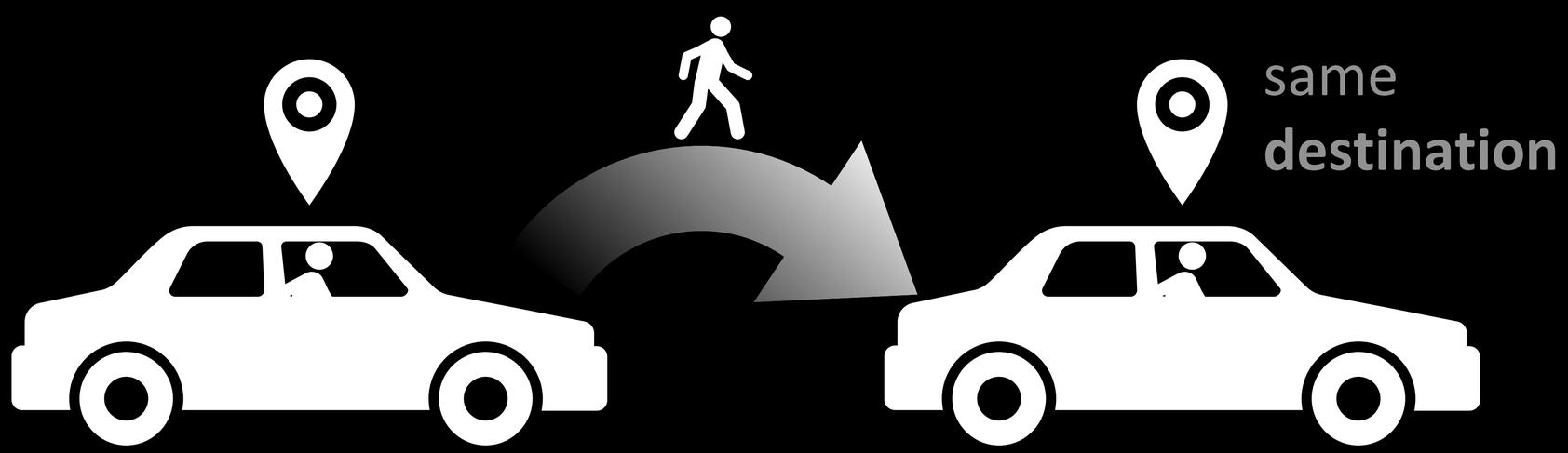
TIME



Information Classification: General

CAR **JUMPING?**

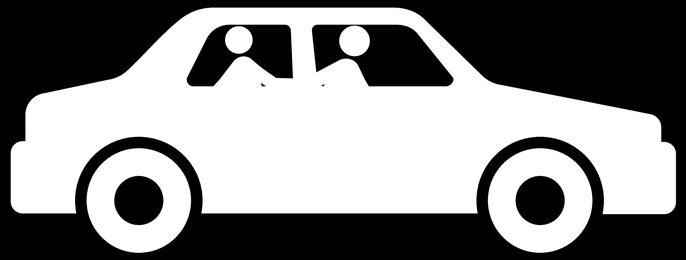
change car while moving



same
destination

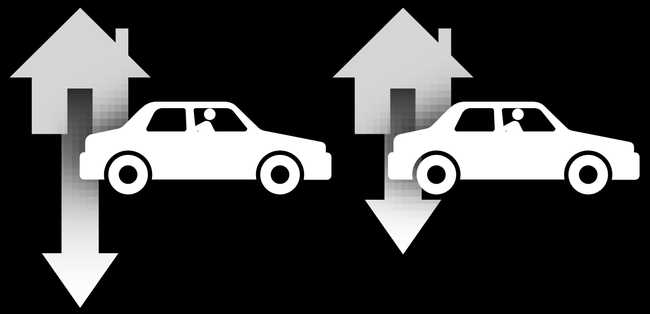
free up car

passengers ride
together



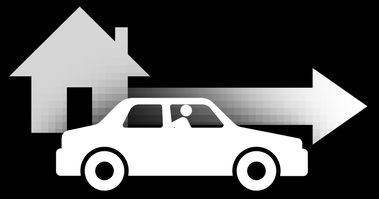
Information Classification: General

CAR & **TAXI**



UBIQUITY

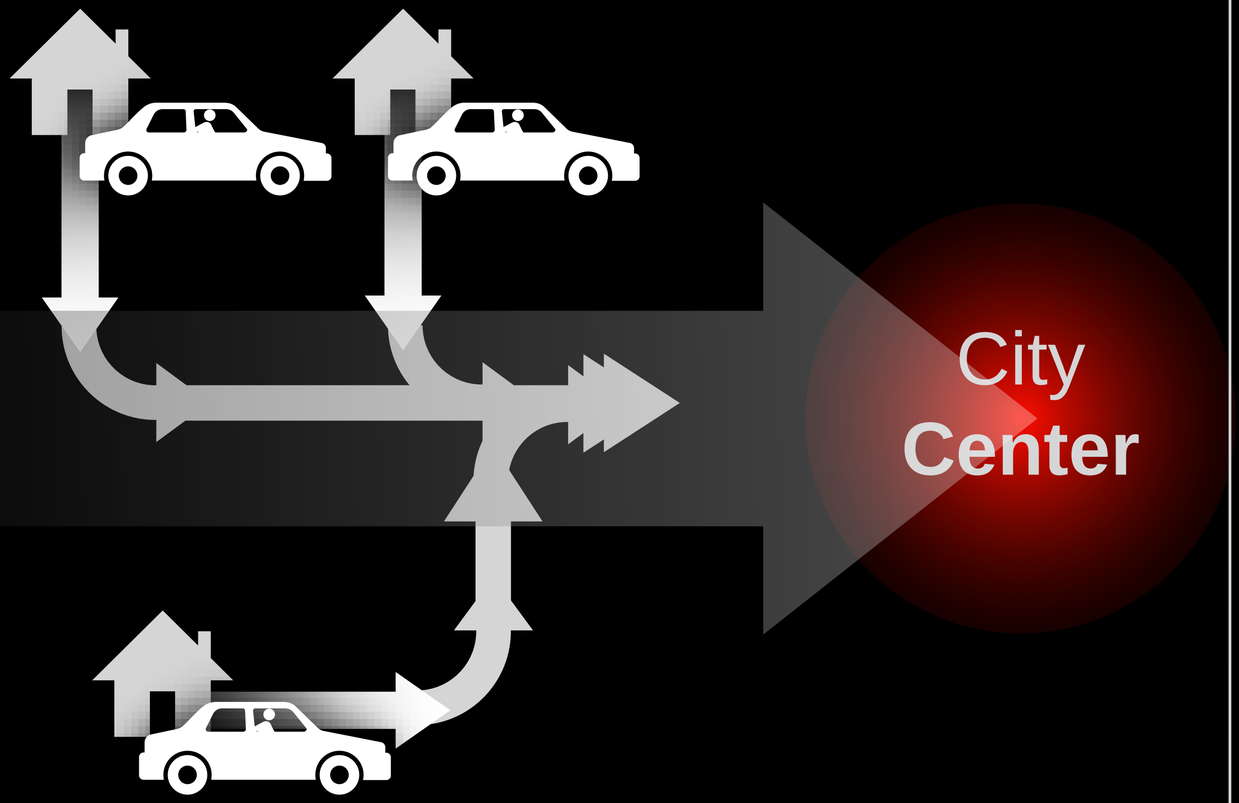
door to door



CAR **JUMPING**

Information Classification: General

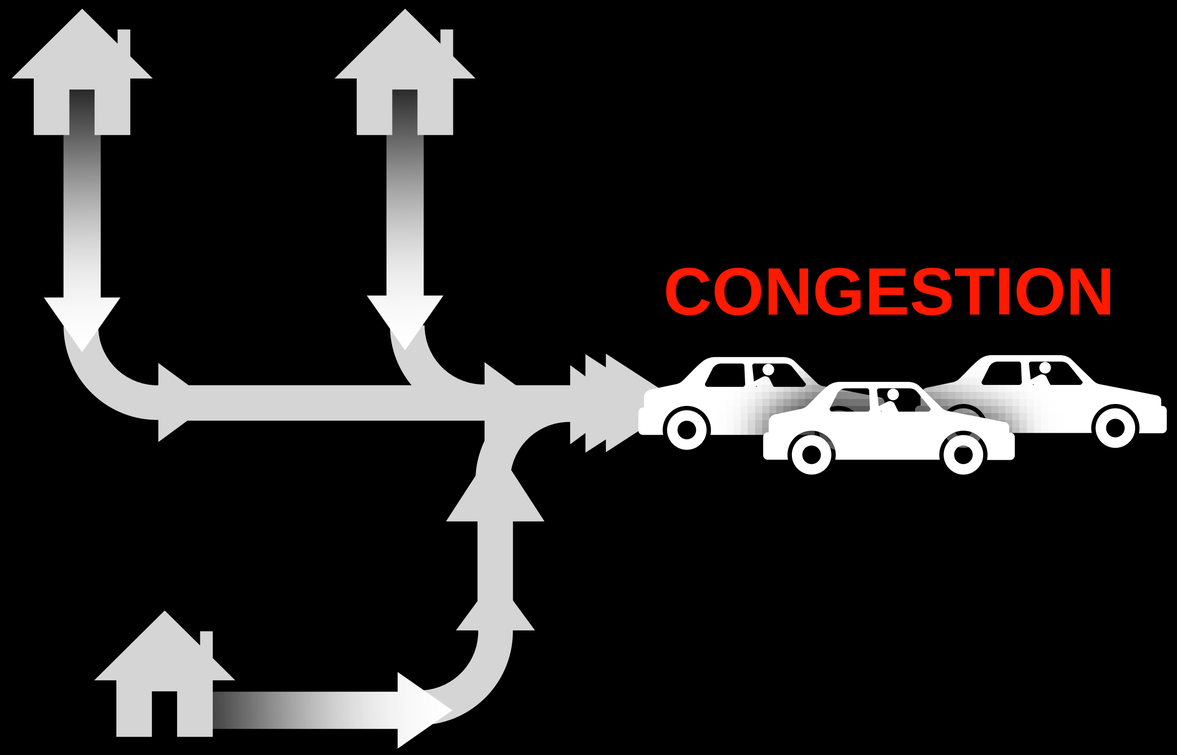
CAR & **TAXI**



CAR **JUMPING**

Information Classification: General

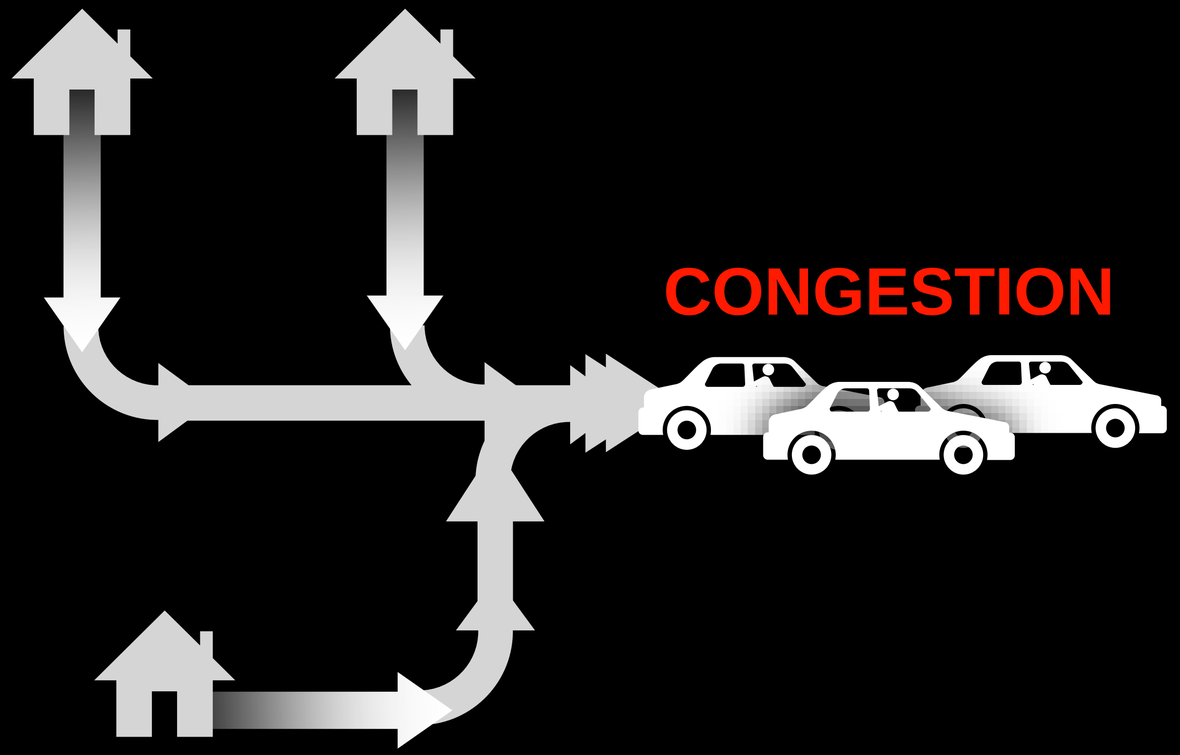
CAR & **TAXI**



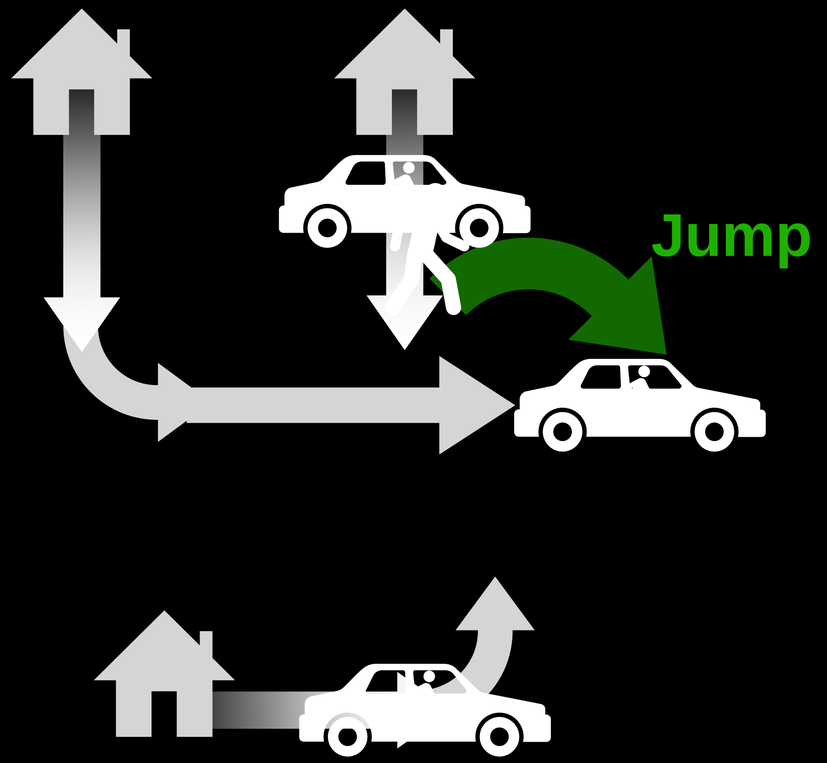
CAR **JUMPING**

Information Classification: General

CAR & **TAXI**



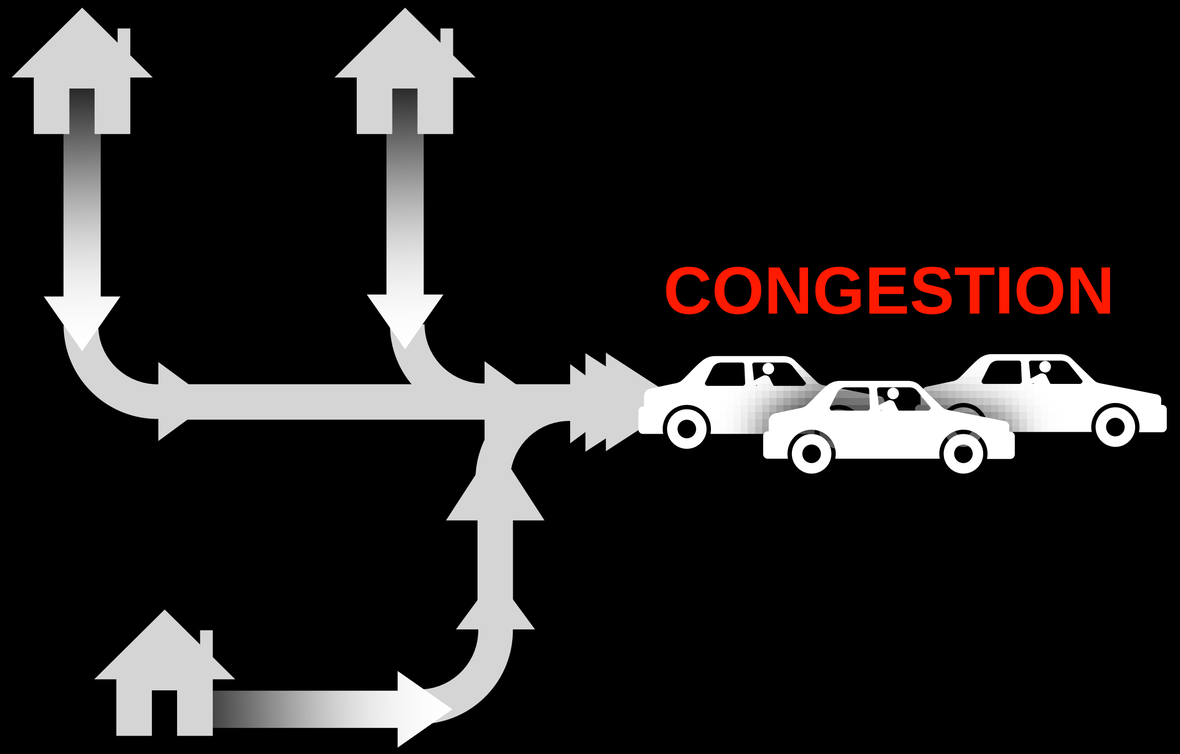
CAR **JUMPING**



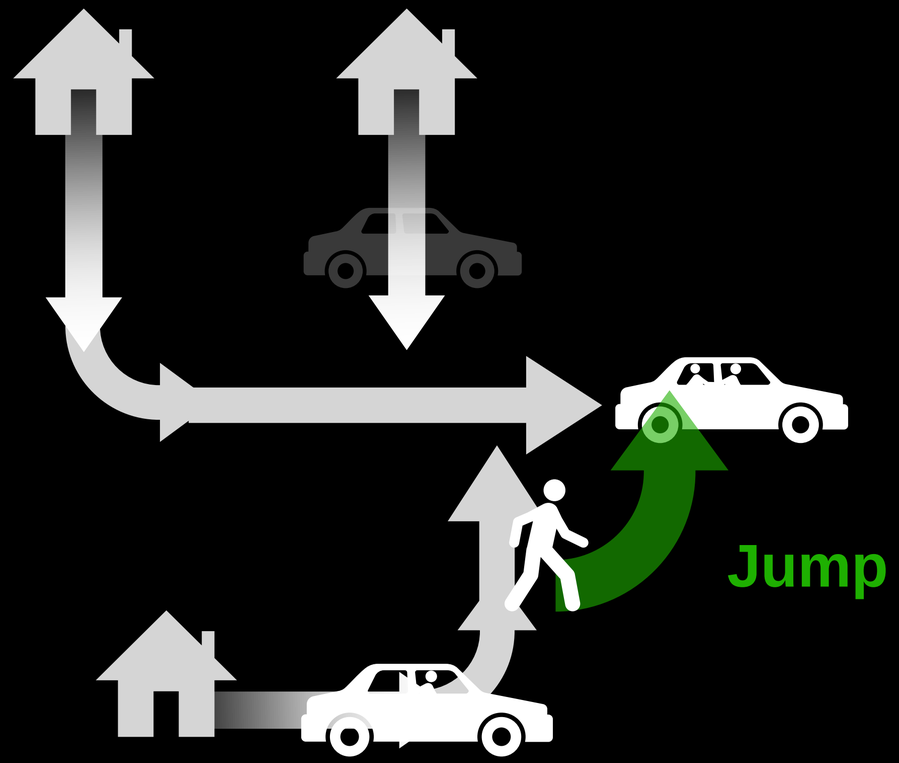
Information Classification: General

1.2
people
per car

CAR & **TAXI**



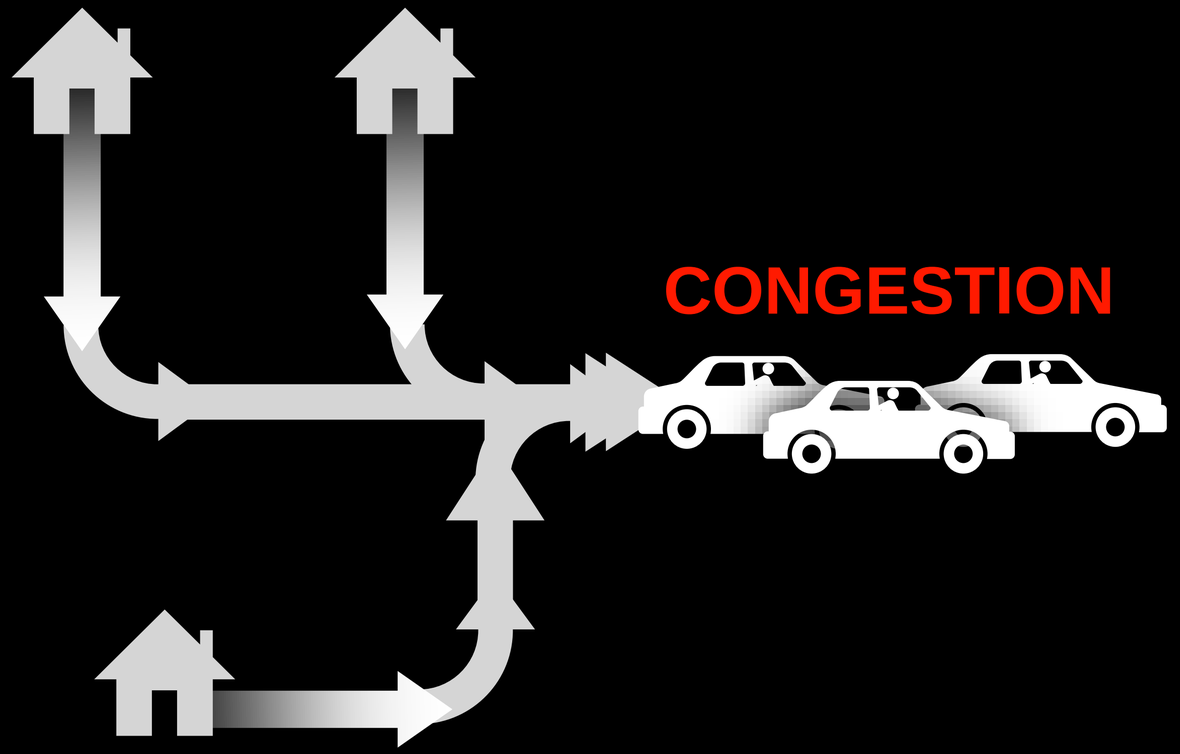
CAR **JUMPING**



Information Classification: General

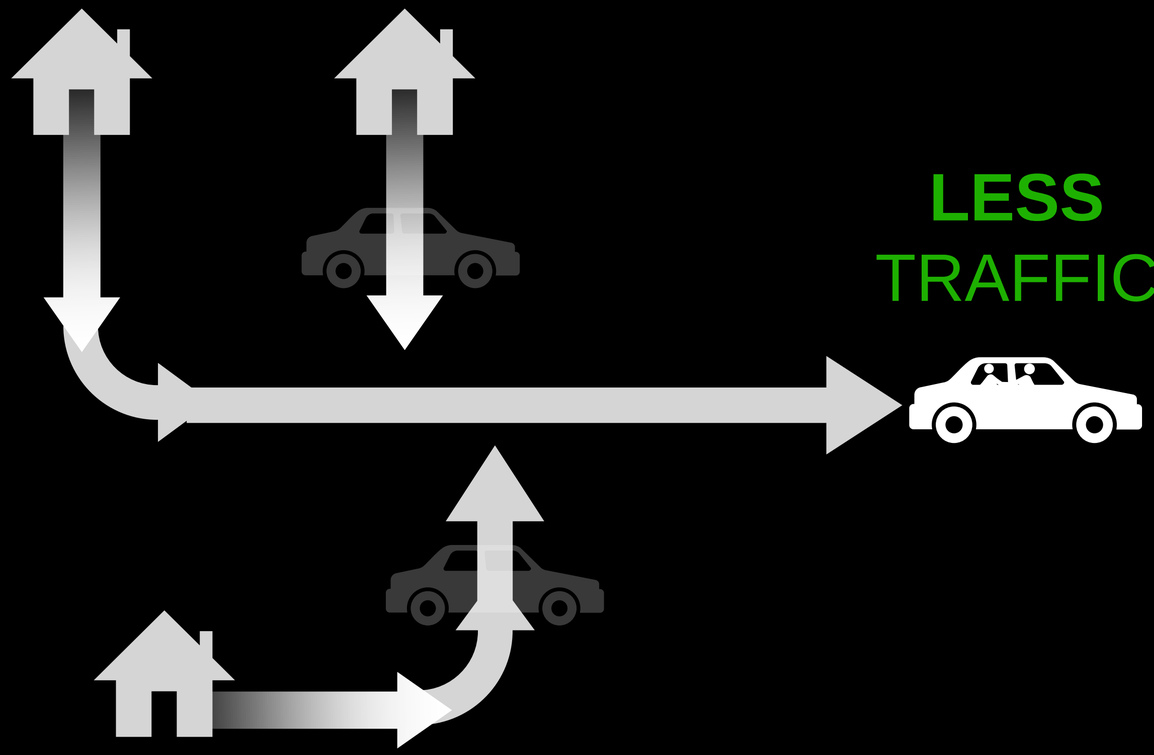
1.2
people
per car

CAR & **TAXI**



CAR **JUMPING**

4
people
per car



Information Classification: General

Information Classification: General

HOW TO MOVE BETWEEN CARS **SAFELY?**

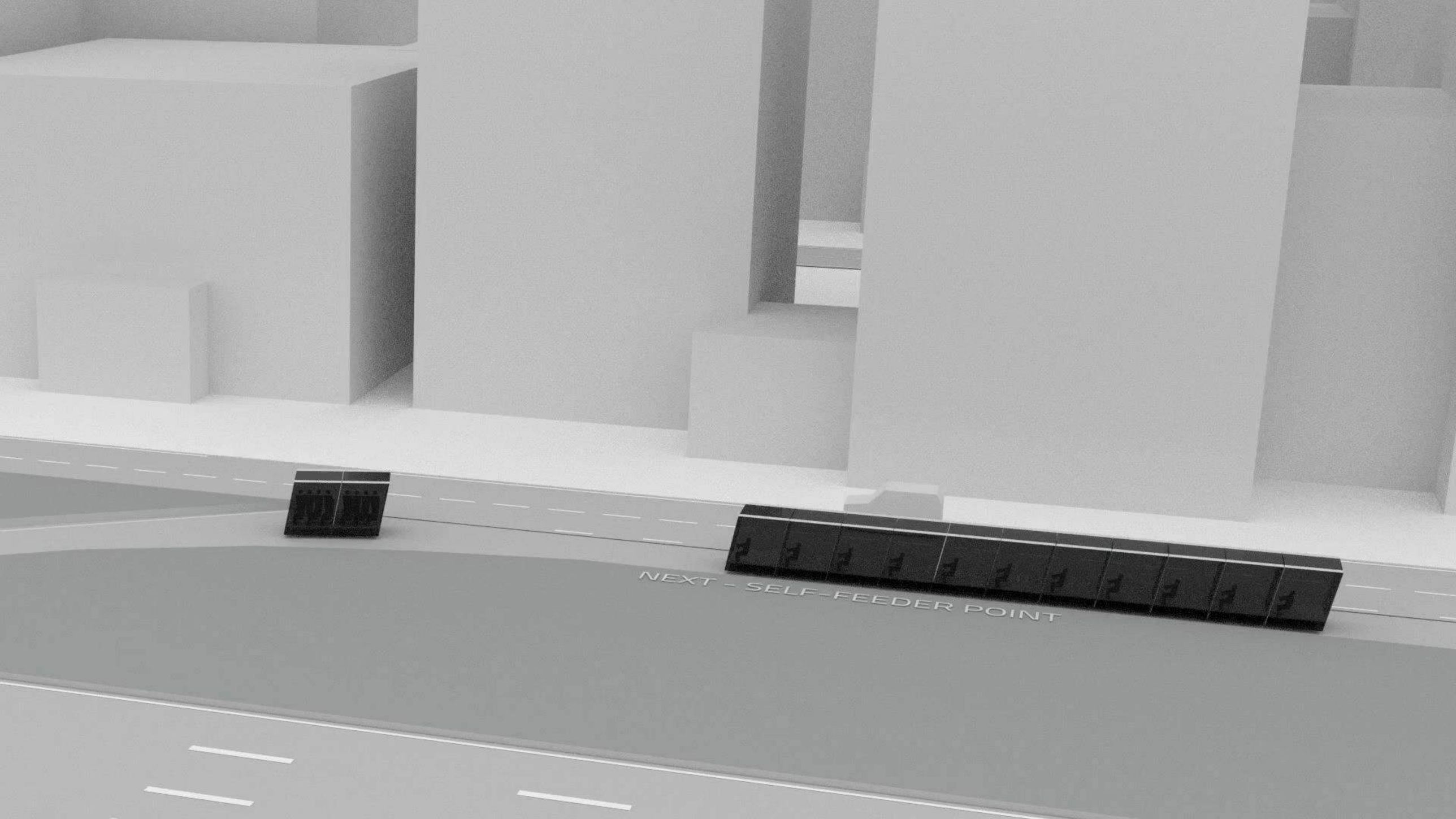
HOW TO KNOW IN **WHICH CAR TO GO?**

HOW TO CONVINCE **5 STRANGERS TO FIT IN A CAR**?

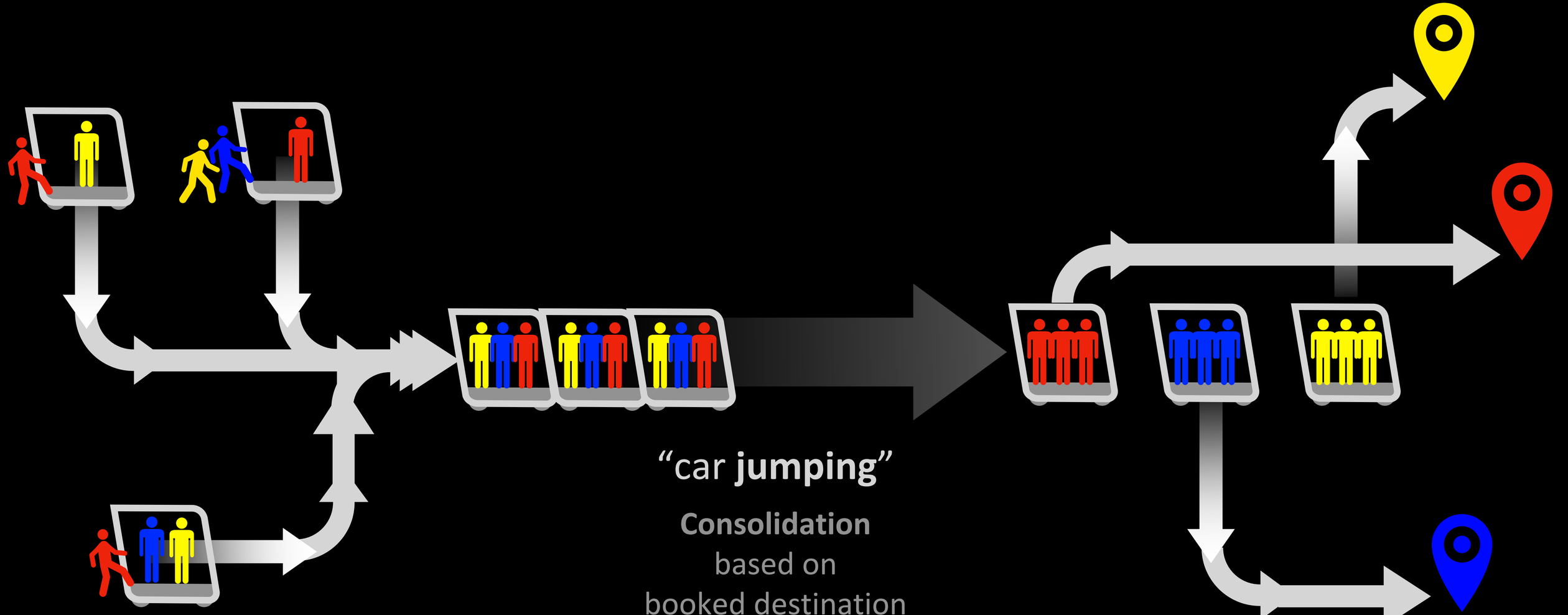
Information Classification: General

A **NEW TYPE** OF VEHICLES

Information Classification: General


NEXT – SELF-FEEDER POINT

FORMAL **OVERVIEW**



Pooling
Everywhere

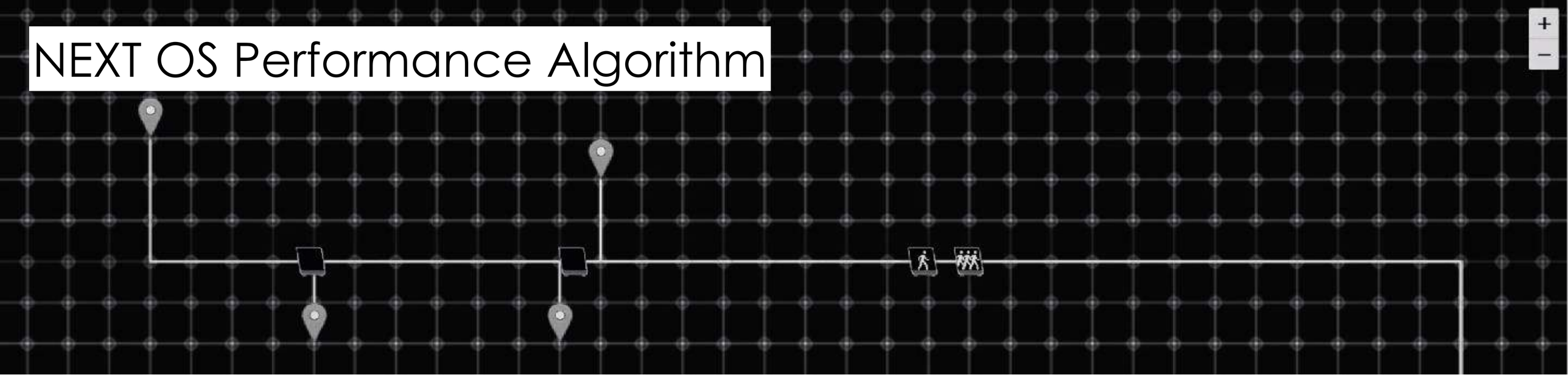
“car **jumping**”

Consolidation
based on
booked destination

Door to **Door**

Information Classification: General

NEXT OS Performance Algorithm

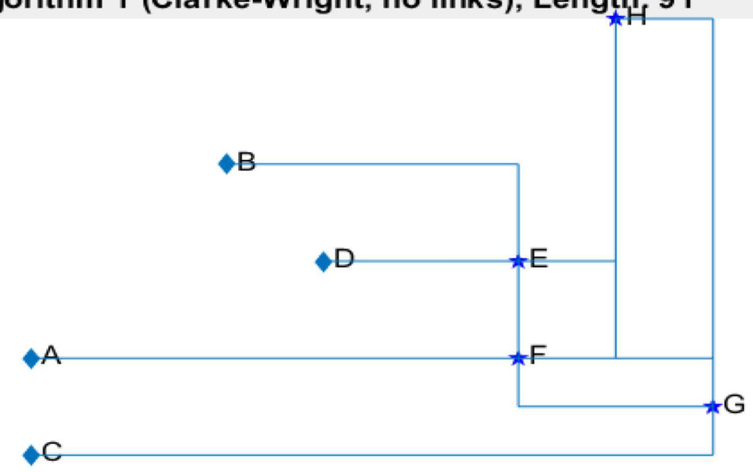


Based on our **NOS simulations** and confirmed by **NYU "en-route transfer" study** **NEXT system can move** between **2.5** and **2.8 times more passengers** than a traditional ride-hailing service (eg. UBER).

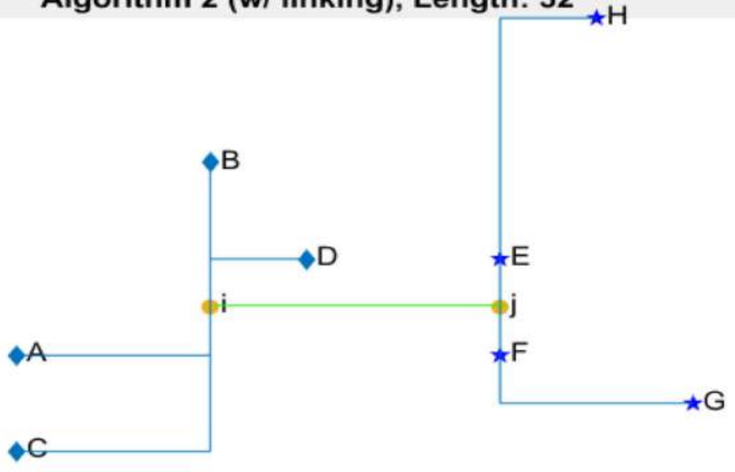
Meaning that

NEXT profits can be **48% more than UBER** even if NEXT ticket is **35% cheaper than UBER.**

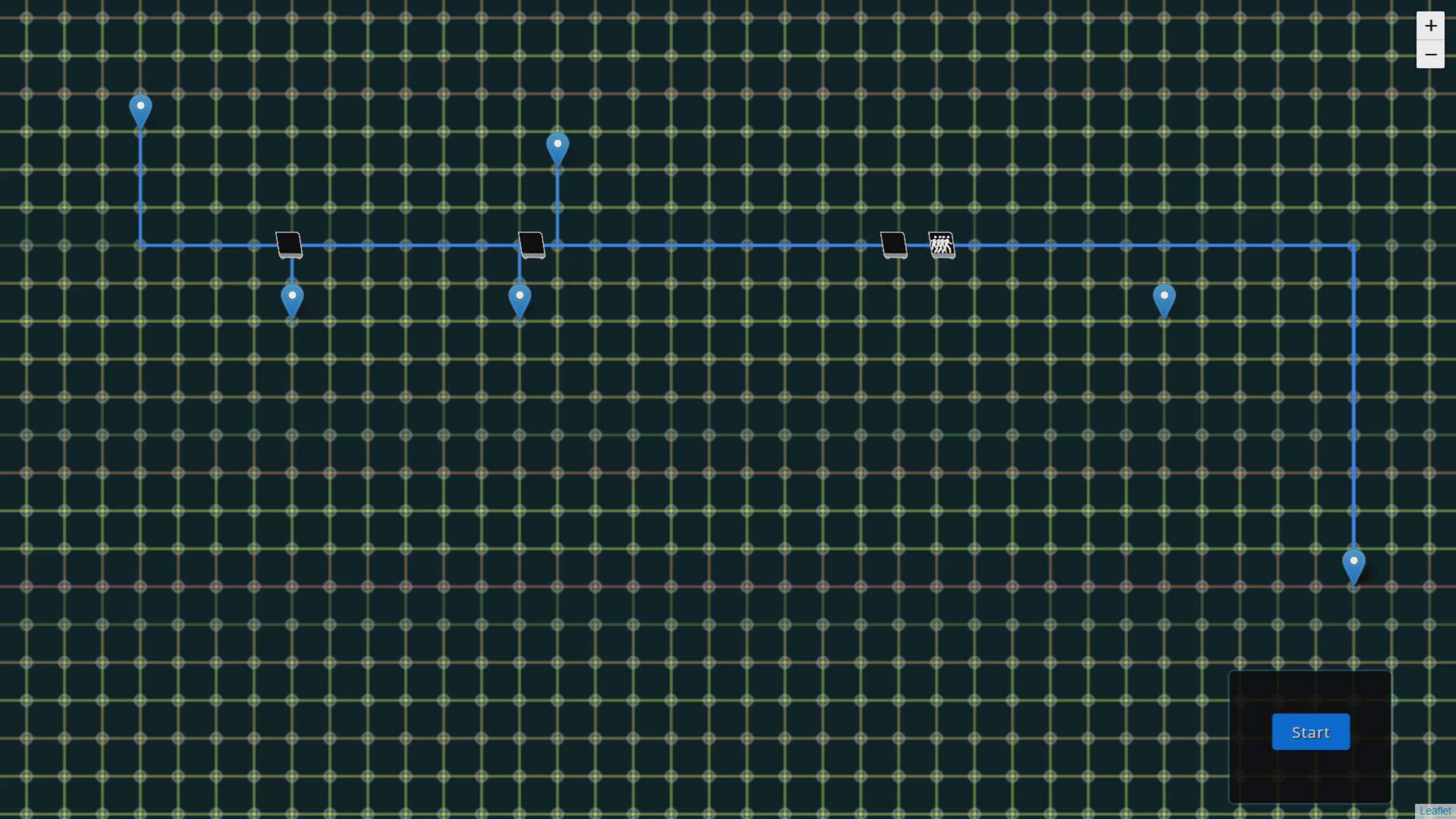
Algorithm 1 (Clarke-Wright, no links), Length: 91

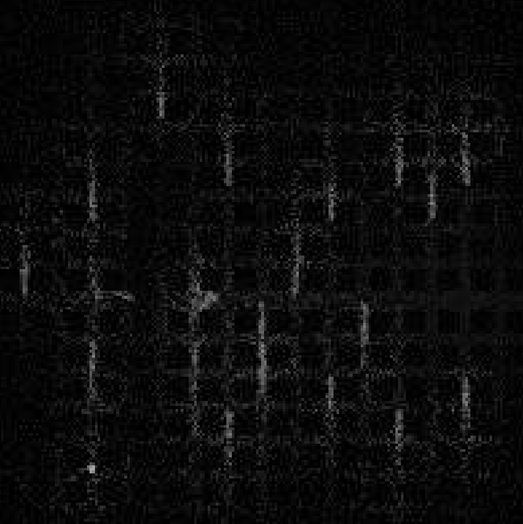


Algorithm 2 (w/ linking), Length: 32



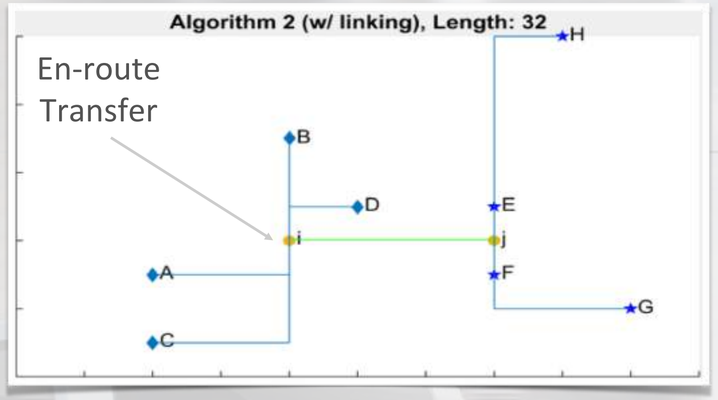
48%
more profit


Start
Leaflet



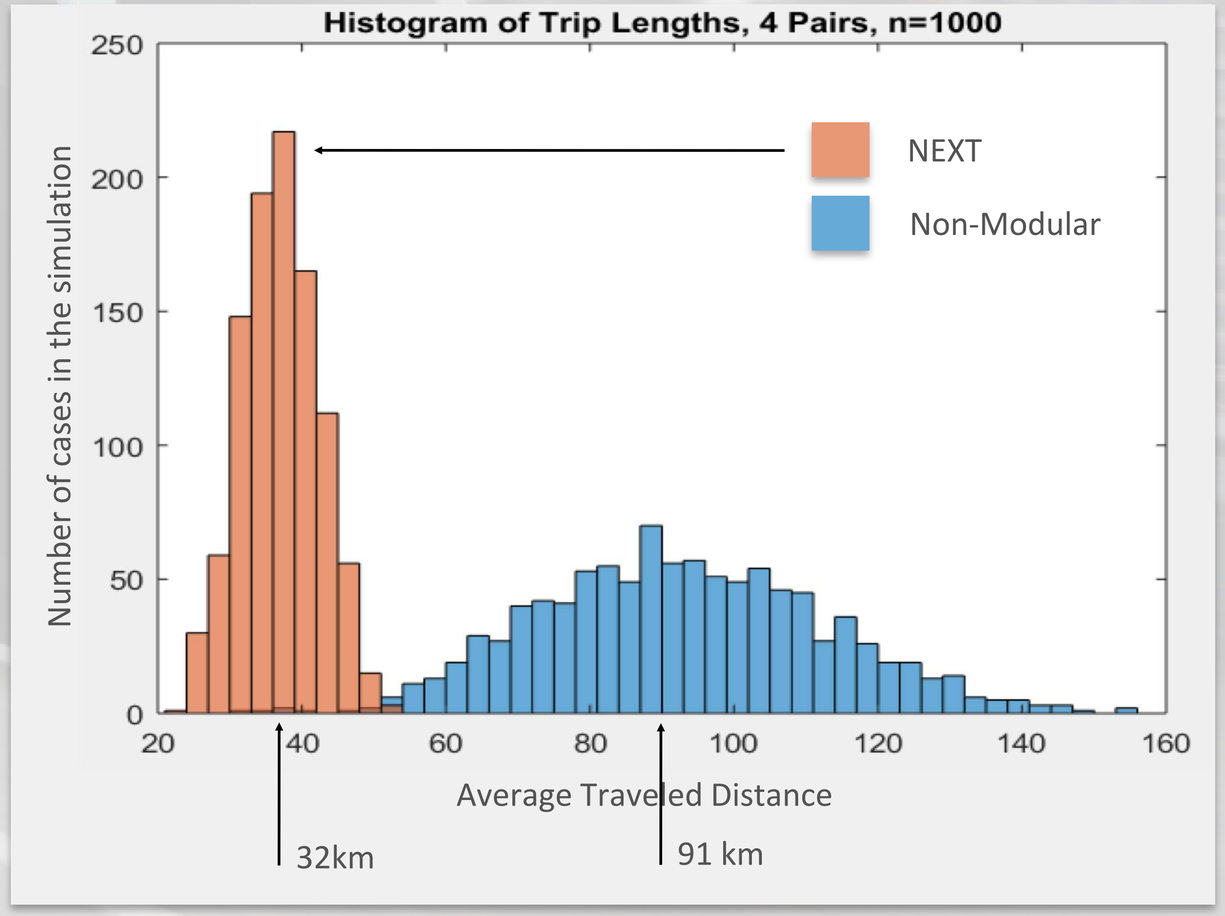
Scientific Collaboration

Advantage of **Last-Mile Transit** Operations with **En-Route Transfers**



NYU paper **evaluates the performance** of a mobility service **using modular vehicles** (MAVs) with the capability of en-route passenger transfers. This new capability allows mobility services to design routing algorithms that use **en-route transfers to reduce disutility to passengers or cost to the operator**.
An insertion heuristic is used to assign trips to a fleet of vehicles and determine whether an en-route transfer is advantageous. The effectiveness of such an algorithm is tested
using a **multi-day simulation with variable demand**, where users' expected travel time, departure time and mode choice is updated after each experience.

The results of the computational experiments suggest that MAVs with en-route transfer
capability could be deployed to improve service and **increase profits in a mobility services market**. En-route transfers were found to increase the traveler and operator welfare (profit).



NEXT fleet travels **60% less distance** of a non-modular system to move the same amount of passengers

iPhone on Wheels

Platform of in-motion services on-demand

Information Classification: General

Zero boarding time

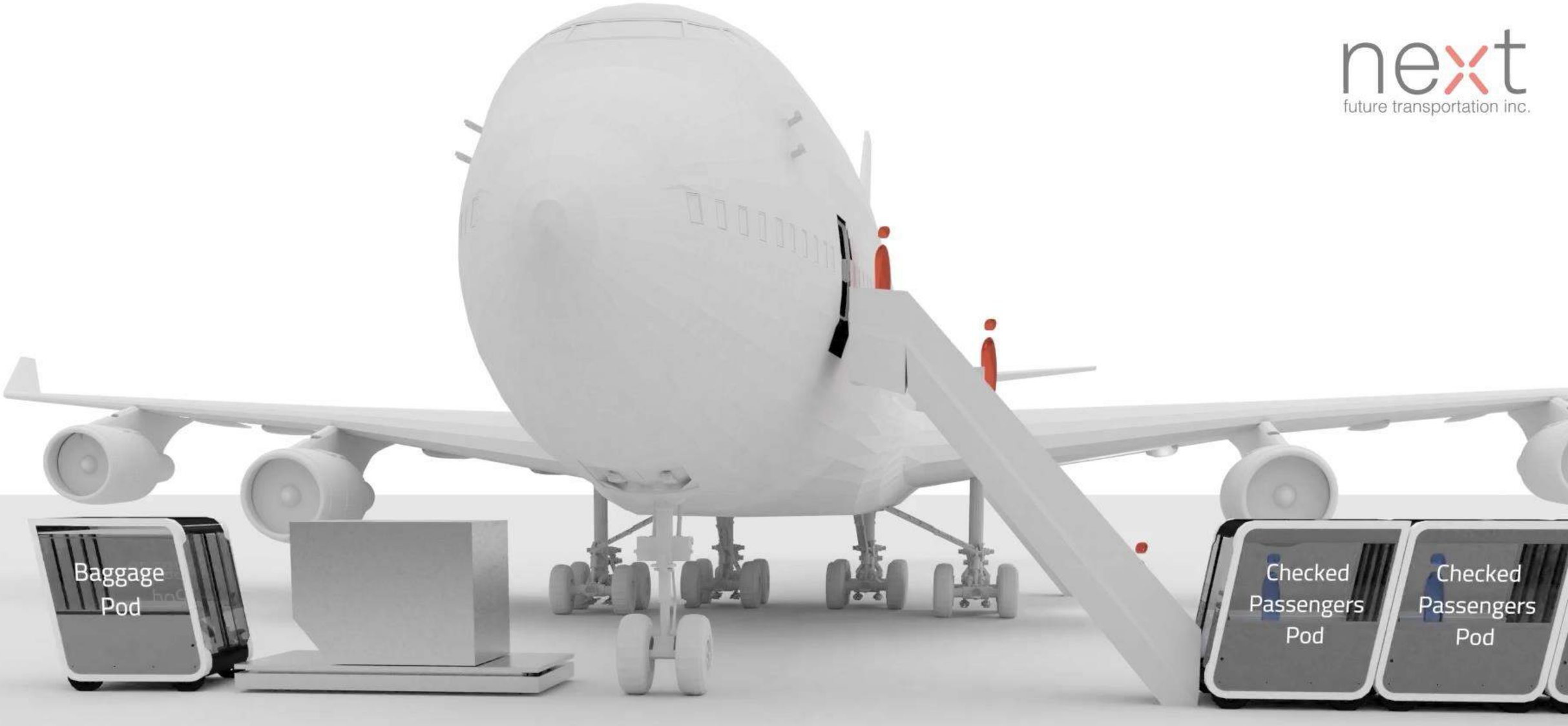
Taxi to Airport + Check-in + Baggage Drop + Embarking = On the go

Information Classification: General

next
future transportation inc.

www.get-next.com

next
future transportation inc.

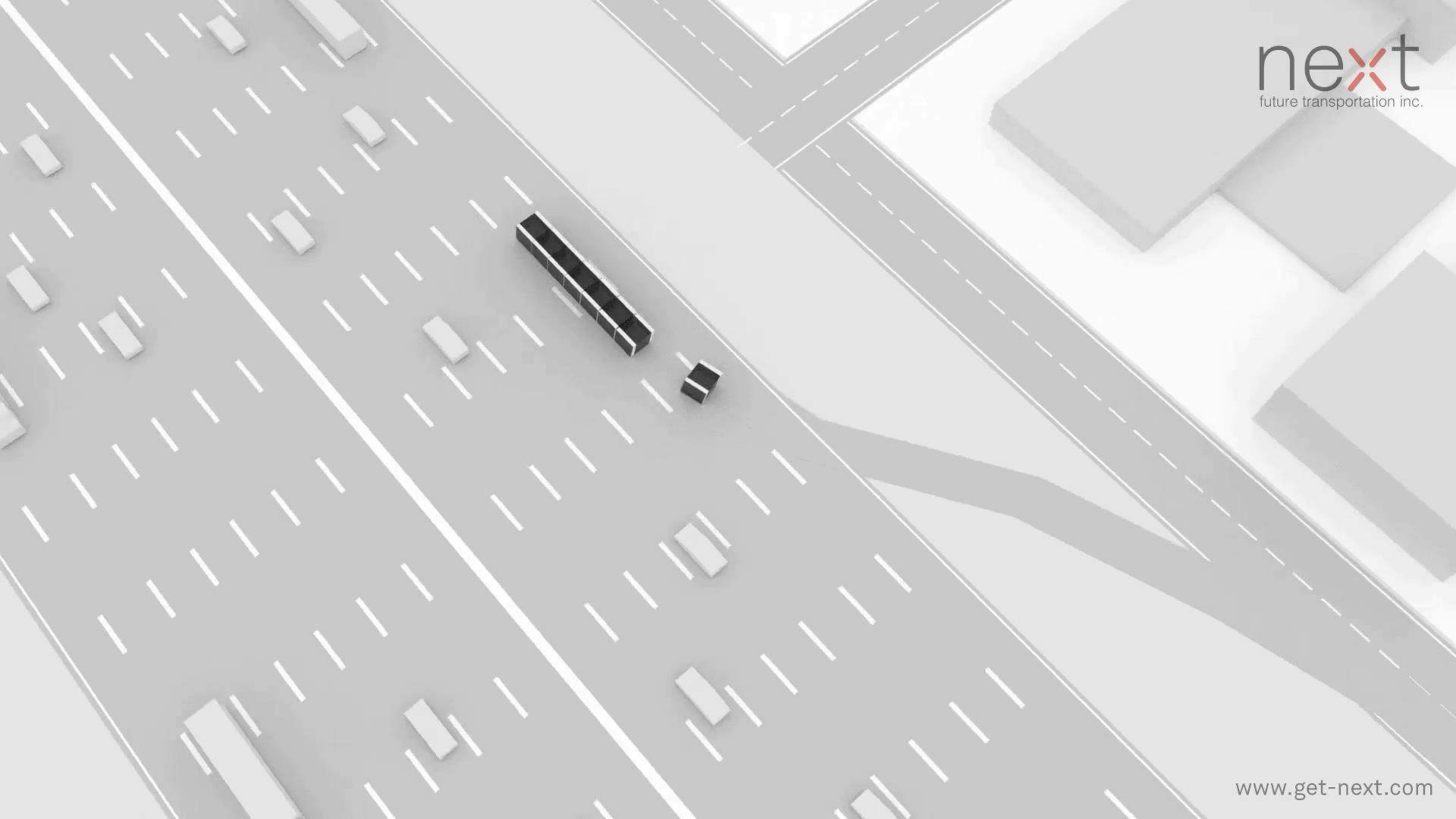


www.get-next.com

Smart delivery

Collect + Organize + Dispatch = On the go

Information Classification: General


next
future transportation inc.
www.get-next.com

NEXT is NOW

Information Classification: General

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