next

V3.0 | 2015

Future of Transportation inc.

http://next-future-transportation.com/

designed by Tommaso Gecchelin © 2014

Next is

○ A road transportation system based on **electric modular vehicles**.

○ The modules are able to physically couple and decouple each other creating a **bus-like walkable open space** that allows people and goods to move from one module to another.

○ This unique feature guarantee a huge traffic, price, and efficiency optimization both in a **human driving** scenario and in a **self-driving** one.
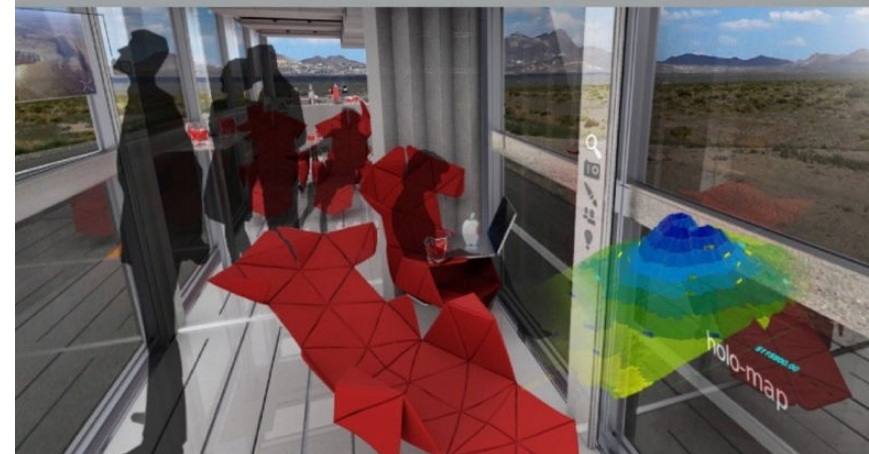
Drivers

Efficiency & Sustainability

No new infrastructures

Radically optimize logistics

Satisfy future passengers needs

Unlock all the potential of self-driving

Scalable ecosystem

6 people in the length of a Smart?

With next you can!

A single *next* module can fit 6 people sitting plus 4 standing.
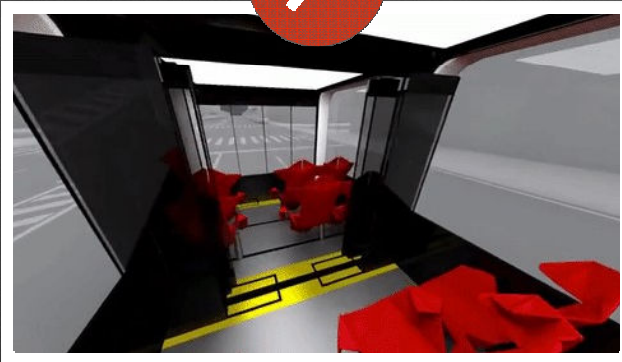
next future transportation inc.

next-future-transportation.com

Short as a Smart and with Optimized Occupancy Rate Logistics

Why NEXT is different?

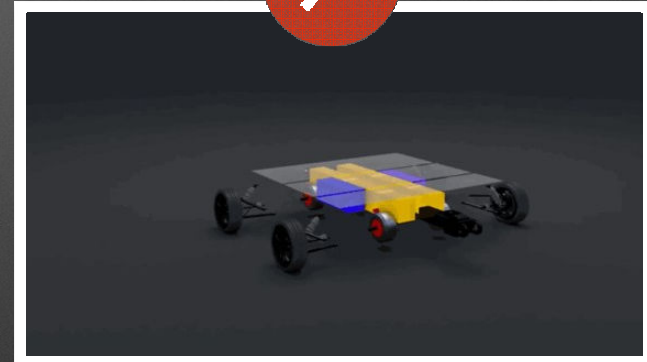Not just stackable, it's a modular ecosystem

Joined Modules Openspace

People can stand inside and walk through connected NEXT modules, like in a train or in a bus
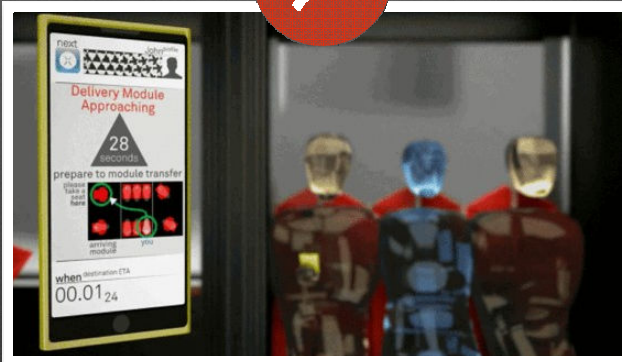
Not a Pod or Minibus

Other solutions even if stackable or self-driving are not modular, so not expandable or optimizable

No New Infrastructures

NEXT is different from people mover or analog solutions because it goes on regular roads.

Competitors Comparison

	Next	Self-Driving Car	Modular Pods	Self-Driving Bus
Average Occupancy Rate	75%	55%	100%	35%
Traffic Footprint	54 ft	197 ft	123 ft	40 ft
Total Cost per Passenger per km	$0.08	$0.07	$0.06	$0.20

estimations for medium traffic scenario

50 people sitting

8 | Next modules — 1,9m / 6.2 ft — 2,7m / 8,8 ft — 16 meters / 53,4 ft

1 | bus — 12 meters / 39.4 feet

10 | Cars — 16,4 feet (5 meters) — 20 feet (6 meters) — 197 feet (60 meters)

50 | Single User Pods — 4.9 feet (1.5 meters) times 50 Pods divided by 2 (half lane occupancy & close-following) — 1.5 m / 4.9 feet — 123 feet (37.5 meters)
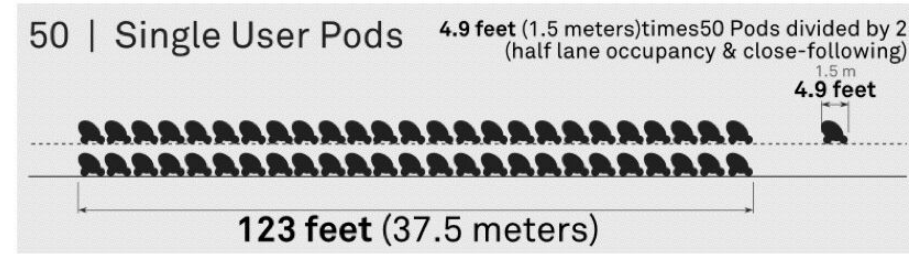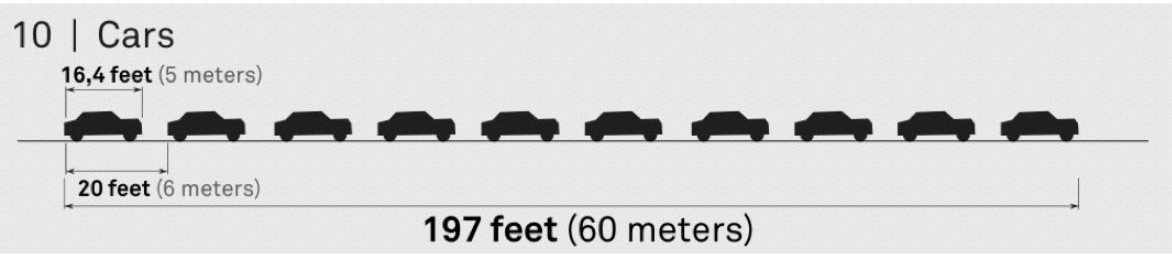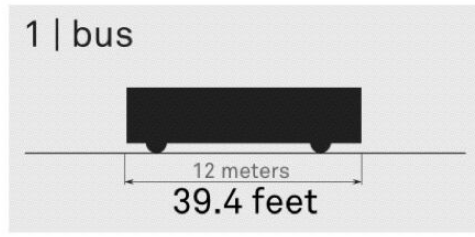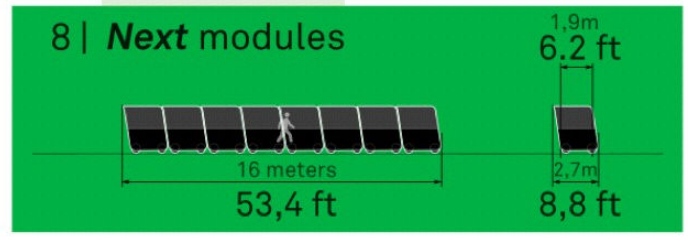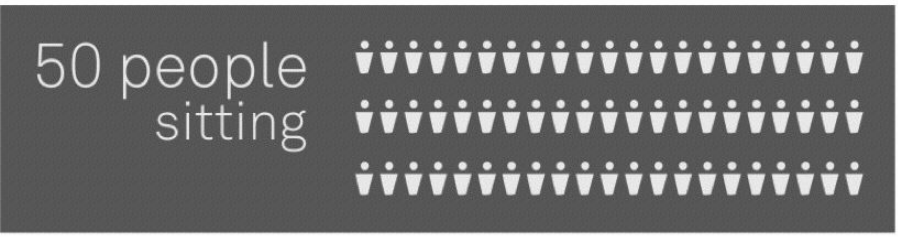
In-Motion-Re-Distribution
Goods Routing Software
IP: Packages dispatch optimization system via in-motion N2N re-distribution

In-Motion-Re-Distribution
People Routing Software
IP: Passengers transport optimization system via in-motion N2N re-distribution

Suburban — **Urban**

Next App

On Demand - Single User Local Picking

Multiple Modules Join and Passengers Tranfer to a Single Module

Users All in One Module

No Stops
No Waiting Time

Less Traffic
Less Consumption

Passengers go to the Head Module

Freed Empty Modules

Filled Module

Urban — **Suburban**

Next App

On Demand- a module picks up more people going almost in the same direction

Support modules arrive each time a passenger need to take an exit

Users directly delivered at home

Less Traffic
Less Consumption

No Intermediate Stops
Door to Door Service

Support modules approaching.

Passengers Distribution

Suburban Local Delivery

Next App
On Demand

On Demand Local Picking

The Local Picking Delivering Module Leaves the Passengers to the Main Convoy and Receives the Passengers Exiting and Brings Them at Home

Users directly delivered at home

Door to Door
No Waiting Time

Less Consumption

No Intermediate Stops
Door to Door Service

Main Convoy Modules on the Highway
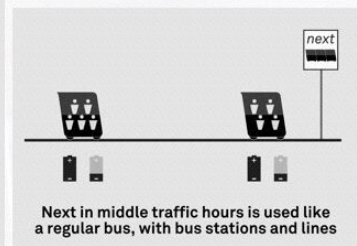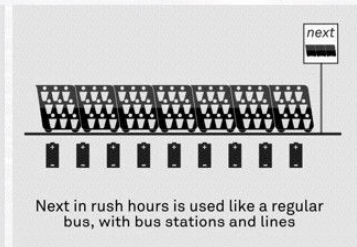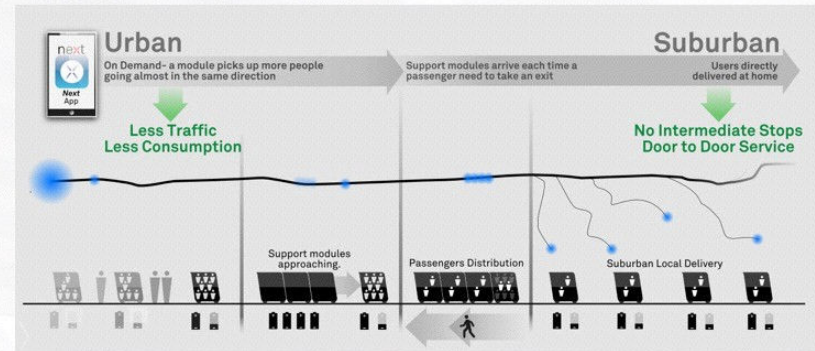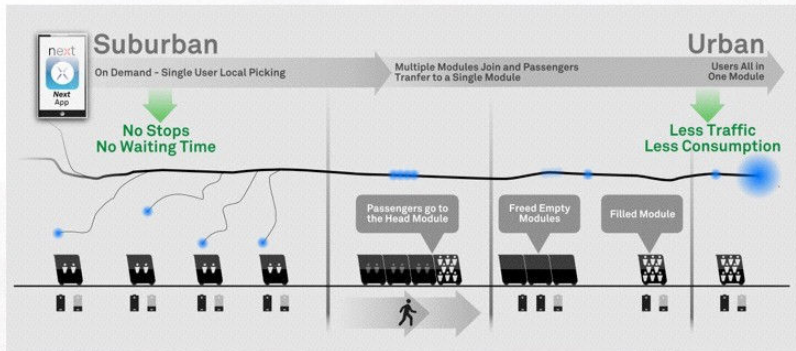
Local Picking

Local Shuttle Approaching

Entering Users Go in the Head Module

Passengers Distribution

Exiting Users Go in the Tail Module

Main Convoy Modules Go On

Local Delivery

Next in rush hours is used like a regular bus, with bus stations and lines

Next in middle traffic hours is used like a regular bus, with bus stations and lines

On Demand

Next App

Next in low traffic hours works as demand responsive transport, using **Next smartphone app** to call a ride.

future transportation inc.
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"in-motion-logistics-re-distribution" means faster & cheaper delivery

ups next

Bay Area Example
Today

Single passenger cars from the entire Bay Area concentrate in San Francisco, creating huge traffic congestion
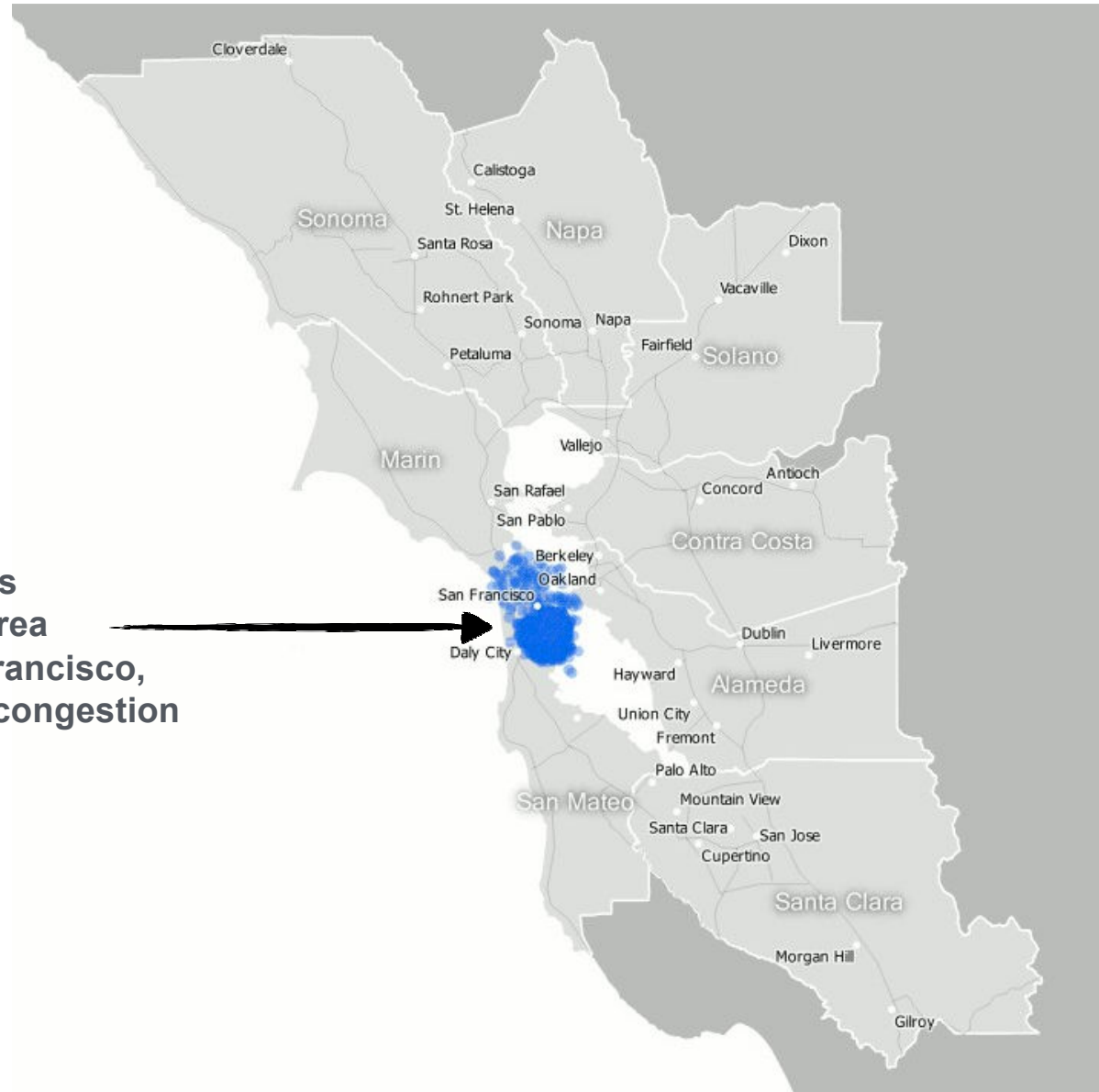
Bay Area Example with NEXT

City Center Delivery

Many passengers, but concentrated in few NEXT units, enter San Francisco cutting up to 85% of traffic.

San Francisco

Urban
Less Traffic
Less Consumption

Users All in One Module

Full modules on HOV Lane

Freed modules go to other requests

Filled modules go on HOV lane

Multiple Modules Join and Passengers Transfer to a Single Module

Passengers go to head module
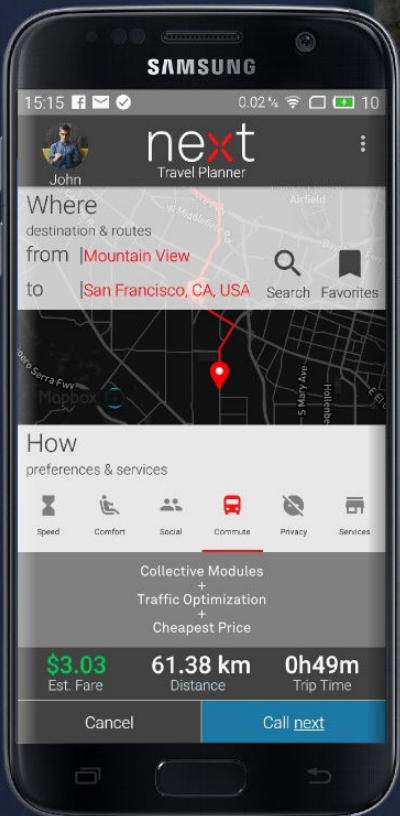
Local Pickup

No Stops
No Waiting Time
Suburban

On Demand Single User Local Picking

Passengers in-motion Redistribution

Local Pickup

Local Pickup

Mountain View

15:15   0.02%   10
next
Travel Planner
John
Where
destination & routes
from Mountain View
to   San Francisco, CA, USA
Search   Favorites

How
preferences & services
Speed Comfort Social Commute Privacy Services

Collective Modules
+
Traffic Optimization
+
Cheapest Price

$3.03   61.38 km   0h49m
Est. Fare   Distance   Trip Time

Cancel   Call next
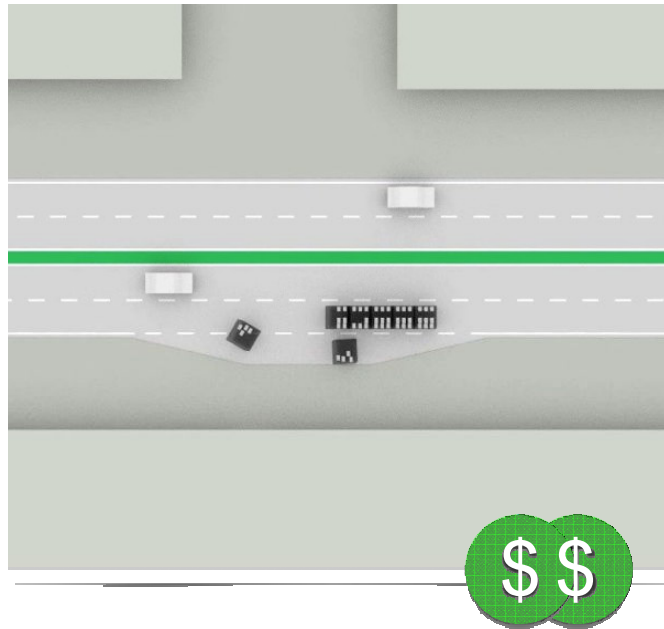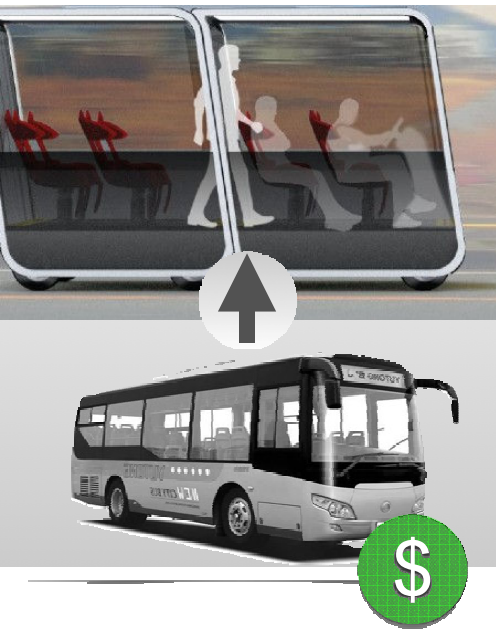
2017

Hybrid Scalable System

2021

Human Driving ➡️ Upgrade ➡️ Complete Self-Driving

Sell NEXT Modules Fleets ➡️ Modular Fleet Optimization ➡️ On-Demand Services

- Modules for campus
- Cargo Modules
- Statically joined at a Rest Area to remove dynamic risk issues

- Autonomous private modules
- Gradual bus fleet replacement with modular NEXT buses

- On-demand mobility
- Third party services modules
- Automatic fleet coupling and decoupling at stations and stops
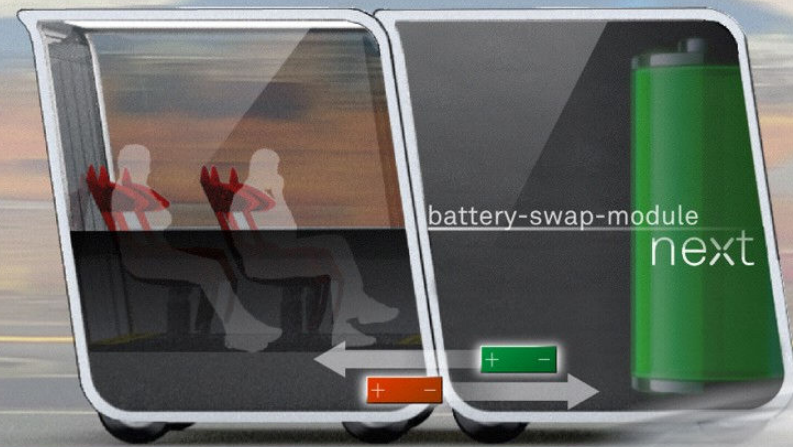
Short but Safer

2.5 Tons ➡️ ⬅️ 1.3 Tons

Raised height of the passengers platform ensures improved safety

Short Length as a Smart but Safer than a regular Self-Driving-Car

no more stops...
to recharge your car

swap in motion!
When your *Next* battery is low, you don't need to stop.
A dedicated *Next* reaches you and swap your battery pack, in motion!
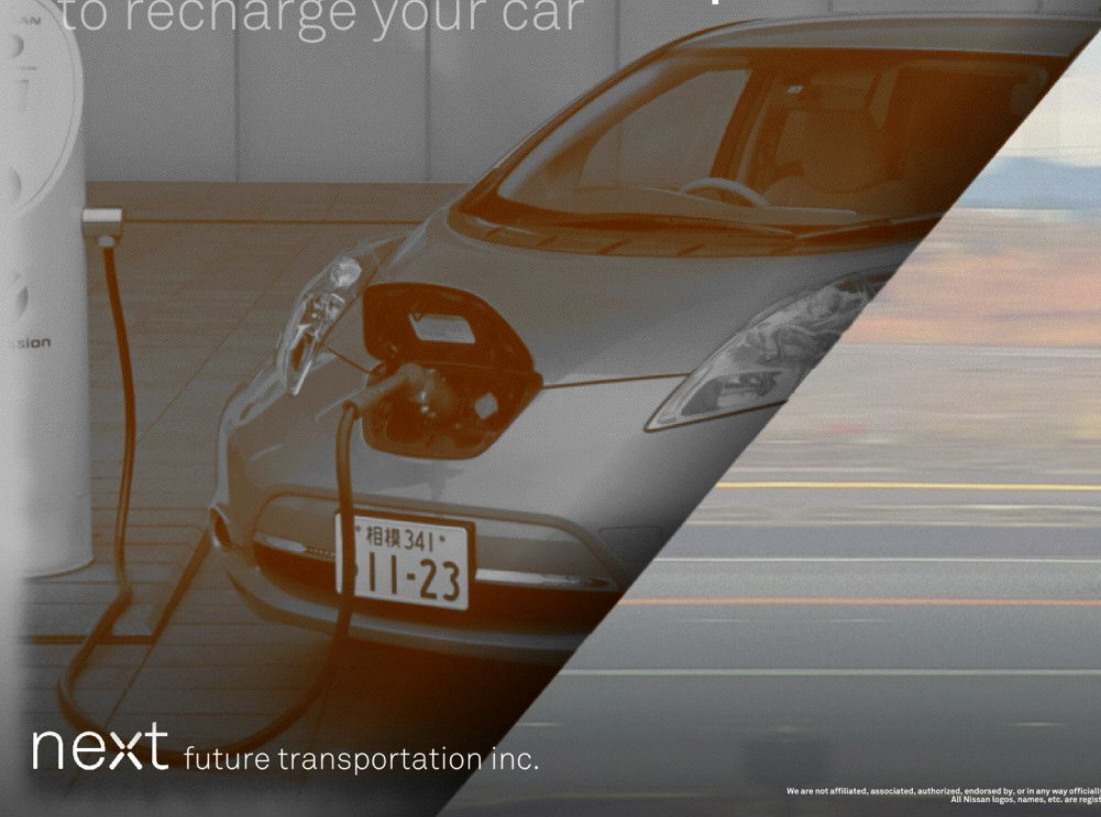
battery-swap-module
next

next future transportation inc.

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100 Miles of Range but Actually Infinite Mileage thanks to Swap-in-Motion

Roadmap of Key Milestones (long term)

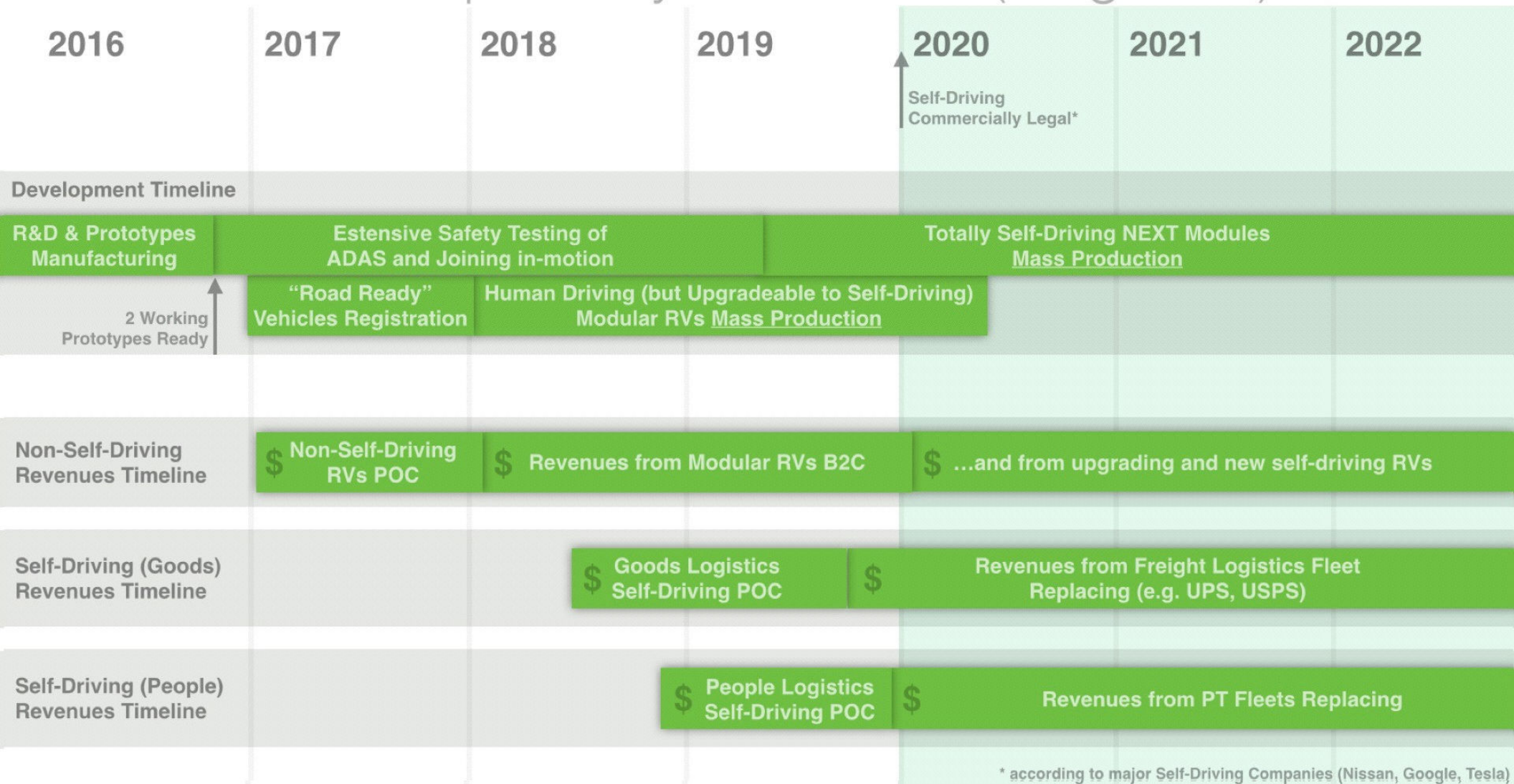| 2016	2017	2018	2019	2020	2021	2022

Self-Driving
Commercially Legal*

Development Timeline

R&D & Prototypes Manufacturing — Estensive Safety Testing of ADAS and Joining in-motion — Totally Self-Driving NEXT Modules Mass Production

2 Working Prototypes Ready

"Road Ready" Vehicles Registration — Human Driving (but Upgradeable to Self-Driving) Modular RVs Mass Production

Non-Self-Driving Revenues Timeline

$ Non-Self-Driving RVs POC $ Revenues from Modular RVs B2C $ ...and from upgrading and new self-driving RVs

Self-Driving (Goods) Revenues Timeline

$ Goods Logistics Self-Driving POC $ Revenues from Freight Logistics Fleet Replacing (e.g. UPS, USPS)

Self-Driving (People) Revenues Timeline

$ People Logistics Self-Driving POC $ Revenues from PT Fleets Replacing

* according to major Self-Driving Companies (Nissan, Google, Tesla)

Press

Huge and positive press coverage and public excitement

theguardian

"Tech innovators reshaping transit"

FAST COMPANY

Co.DESIGN

"Why Should Your Self-Driving Car Look Like A Car?"

WIRED

"A futuristic cross between Uber and the city bus"

TECH INSIDER

"These self-driving pods could change how we travel"

gizmag

"Next Future modular transportation swarms the commuting hordes"

CORRIERE INNOVAZIONE

"In futuro viaggeremo nei moduli intelligenti"

cnet

"Rooms on wheels"

INTERESTING ENGINEERING

"New innovation"

WIRED GERMANY

"Diese fahrenden Kisten sollen den Verkehr revolutionieren"

Thank You

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