

***Transition Sequencing - Phase skills,
systems and technology changes
realistically towards 2030***

***What is the right order for building workforce,
systems and technology readiness by 2030?***

Future Mobility

- ✓ Electrified
- ✓ Connected (AI)
- ✓ Autonomous (AI)
- ✓ Shared
- ✓ Mobility as a Service

Future Mobility

✓ **Electrified**

✓ Connected (AI)

✓ Autonomous (AI)

✓ Shared

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Future Mobility

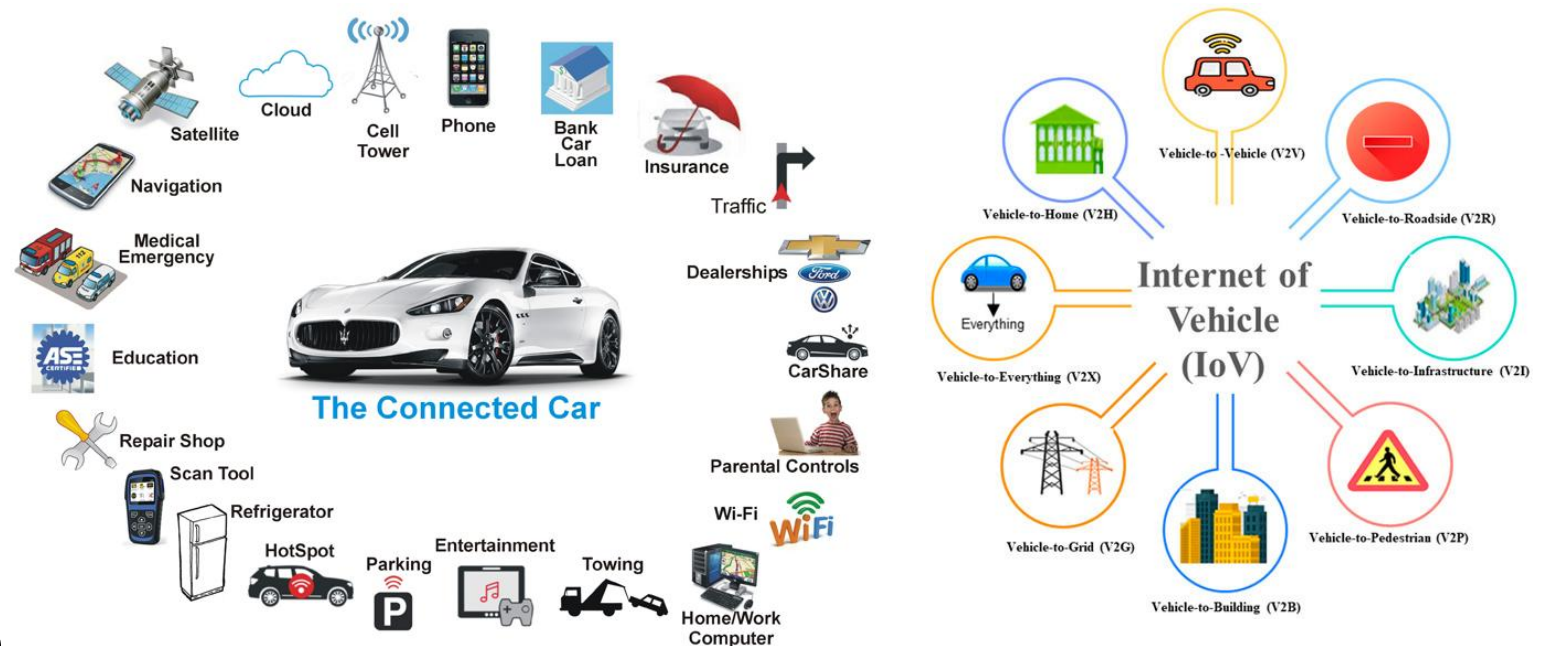
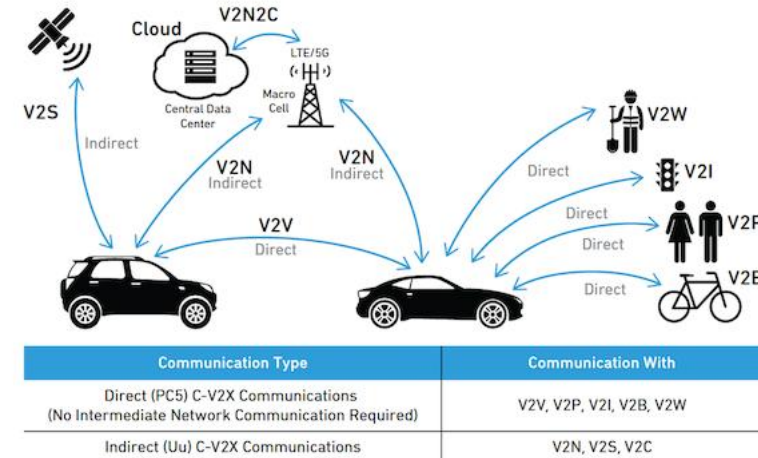
✓ Electrified

✓ Connected

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Future Mobility

✓ Electrified

✓ Connected (AI)

✓ **Autonomous**

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Where Waymo is driving



Compared to an average human driver over the same distance in our operating cities, the Waymo Driver had

Overall crash reduction



95%

Fewer serious injury or worse crashes

↓ 55 FEWER



82%

Fewer airbag deployment in any vehicle crashes

↓ 358 FEWER



82%

Fewer injury-causing crashes

↓ 841 FEWER

Crash reductions involving injuries to Vulnerable Road Users



93%

Fewer pedestrian crashes with injuries

↓ 86 FEWER



86%

Fewer cyclist crashes with injuries

↓ 56 FEWER



82%

Fewer motorcycle crashes with injuries

↓ 36 FEWER

Miami, FL

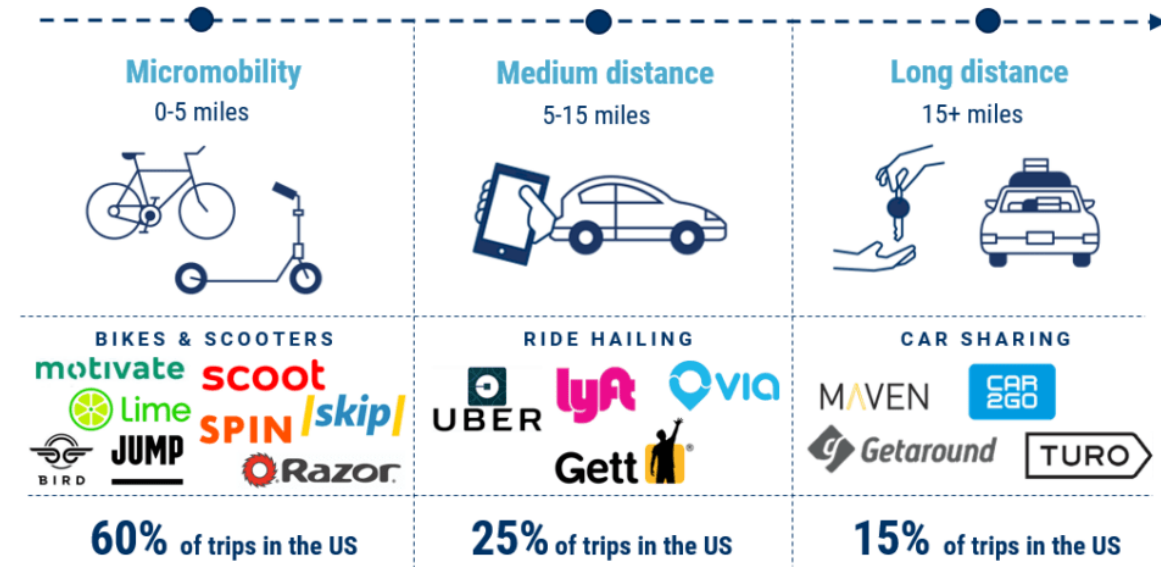
New York, NY

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DISRUPTING THE CAR

Alternatives to car ownership by trip length



Source: NHTS

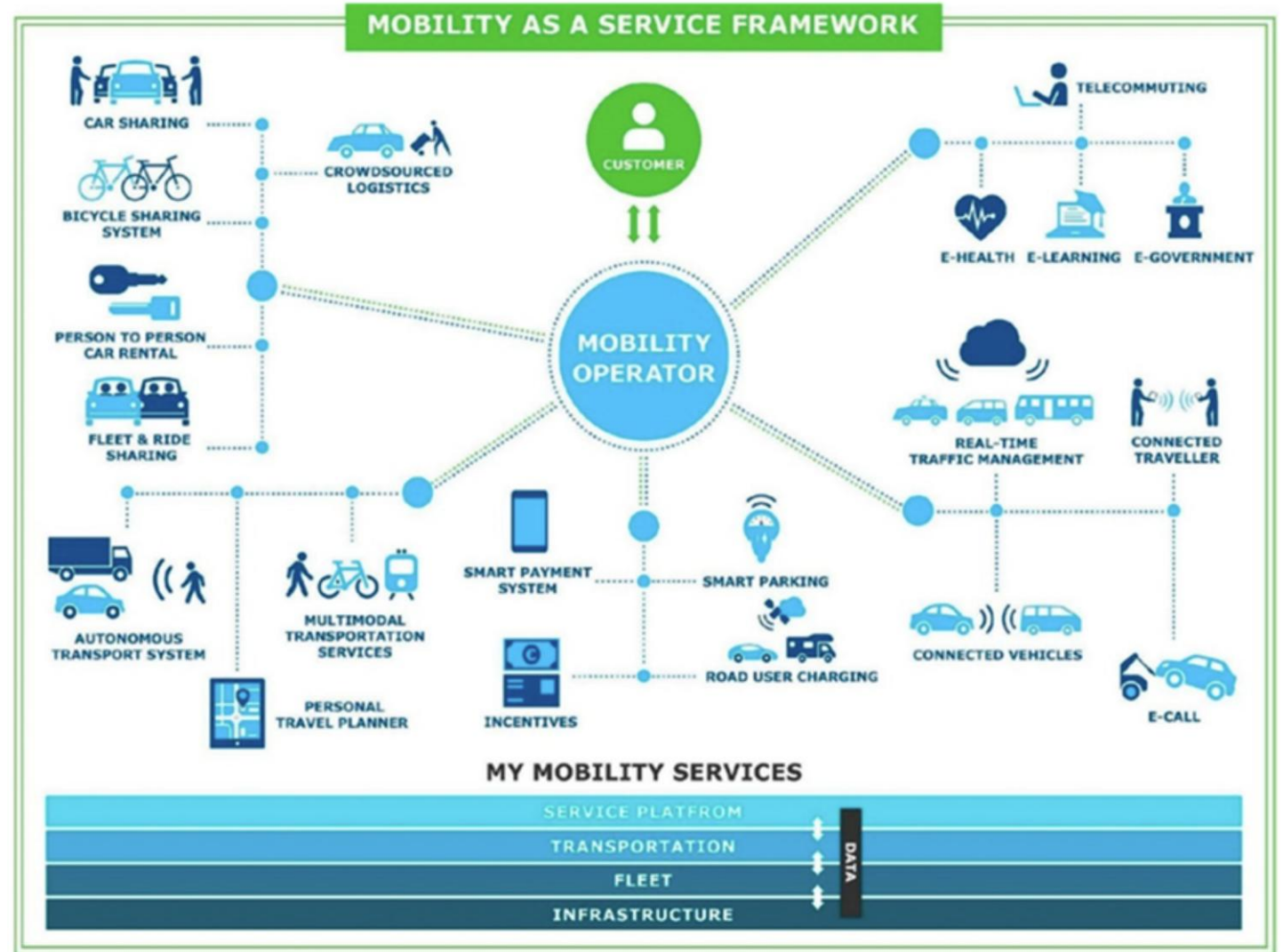


CBINSIGHTS



Future Mobility

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- ✓ Autonomous (AI)
- ✓ Shared
- ✓ **Mobility as a Service**



E-MOBILITY



So: How do we make the change?

Dream Design Do

Plan Picture Perfect

Imagine Integrate Implement

How do we Transition?

- Lay down the Foundations
 - *Integrate the Systems*
- Enable the Transition
 - *Get the People ready*
- Execute
 - *Implement the Technologies*

Laying down the Foundations

Enabling the Transition

Execute!

- **Unified Fare Collection (UFC):** Account-based, contactless digital payment structures that function seamlessly across all modes.
- **Automated Vehicle Location (AVL) & AI Dispatch:** Deploy GPS-tracked fleets connected to AI traffic management platforms, providing commuters with accurate real-time arrivals via digital street signage and mobile apps.
- **Phased Fleet Electrification:** Start with localized pilot routes first, before scaling up.
- **IoT Predictive Maintenance:** Equip transit vehicles with cellular IoT sensors.

Thank
you!

Carel Snyman

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Energy_(EV, PV & ES)