

WHAT IS NEW MOBILITY?

New mobility is a loose term for models using technology to deliver transport in new ways. The most talked about disruptions are:

Reinventing ownership and delivery

Using data and connectivity in new ways

Developing new technologies

IT IS CAPTURING FUNDING...

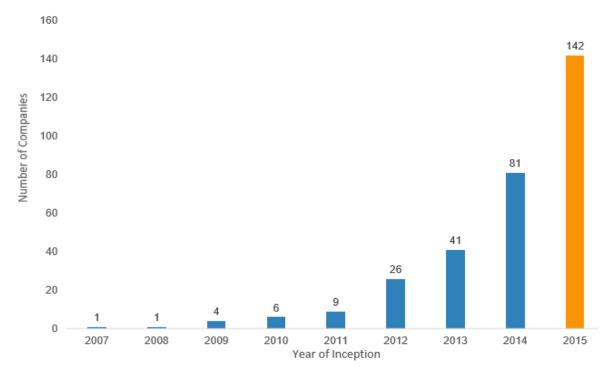
\$5 billion in 2014



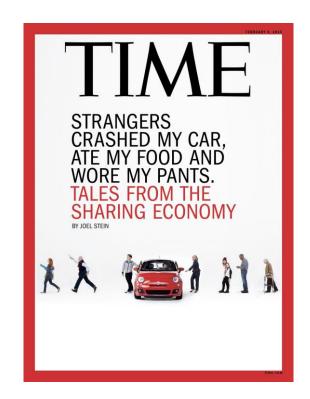
\$10 million in 2010

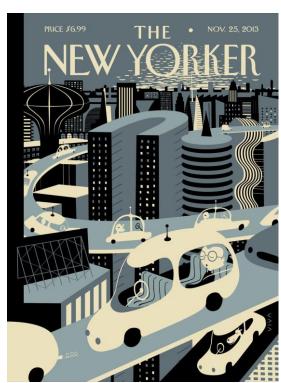
TALENT...

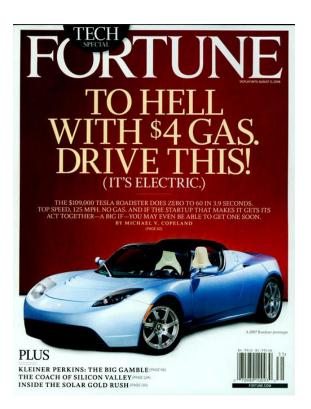
New mobility companies founded year-on-year in India



MEDIA ATTENTION...



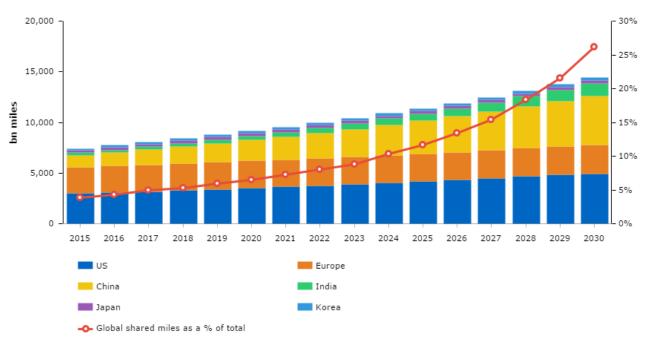




Date	Partnership	Details
Jan 2016	GM – Lyft	\$500 million invested into Lyft
Mar 2016	GM – Crusie Automation	GM buys self driving tech for \$1 billion
May 2016	Toyota – Uber	Toyota bought a stake in Uber
May 2016	Apple – Didi Chuxing	Apple invests \$1 billion in Didi
May 2016	BMW- Scoop	BMW invests undisclosed amount in Scoop
May 2016	Google – Fiat Chrysler	Google to use Fiat cars to run self driving tech
May 2016	Volkswagen - Gett	Volkswagen to invest \$300 million in Gett
Jun 2016	BMW – Intel – Mobileye	Launch autonomous rideshare company in 5 years
Aug 2016	Ford – ZoomCar	Ford Invests \$24 million in Series B round funding
Sep 2016	Ola- Mahindra	Attractive Mahindra-Ola package for Ola drivers
Sep 2016	Ford – Chariot	Ford buys Chariot in all cash deal

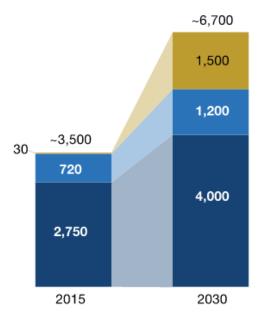
MODE SHARE...





MARKET SHARE...

High-disruption scenario, \$ billion



Recurring revenues from new services

- Shared mobility—eg, car sharing, e-hailing¹
- Data-connectivity services—including apps, remote services, software upgrades

Aftermarket

· Growth from increased vehicle sales

One-time vehicle sales

 ~2% annual increase driven by macroeconomic growth in emerging markets

¹Excludes traditional taxis and rentals.

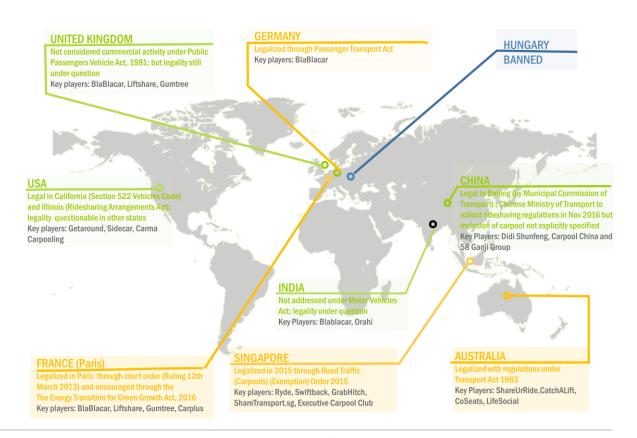
...AND THE ATTENTION OF REGULATORS

STATUS OF GLOBAL CARPOOL REGULATIONS

Carpooling models are legalized

Legality of carpooling business models is under question or where there is disparity in status across cities

Carpooling businesses are illegal



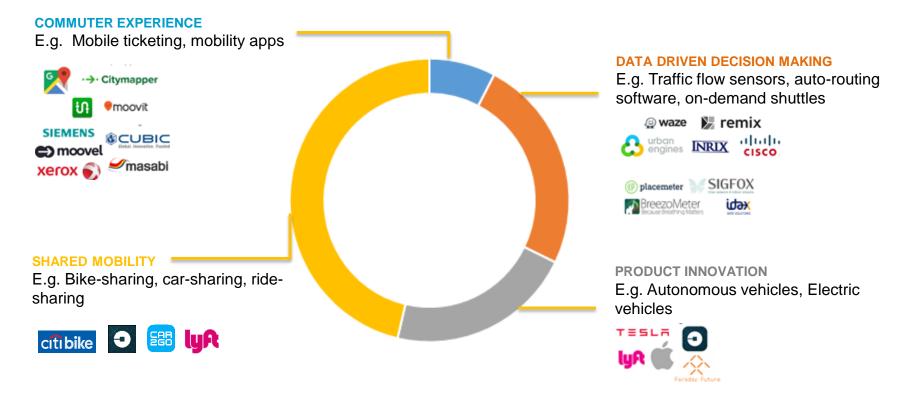
WE SEE FOUR KEY AREAS OF DISRUPTION



THE BEST CASE SCENARIO

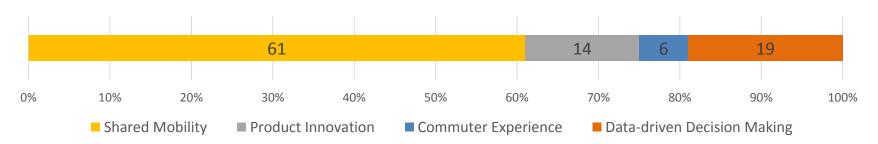
- 50% NMT and 50% "shared" mobility operated by public and private players
- Integrated and seamless transport from door-to-door
- Multiple and flexible mobility options
- Steep reduction in use of personal vehicles
- Reduction in cost of providing services
- Cities know their options to shape engagement with private operators
- New technologies / models incorporated into PT

SIGNIFICANT PRIVATE SECTOR ACTIVITY

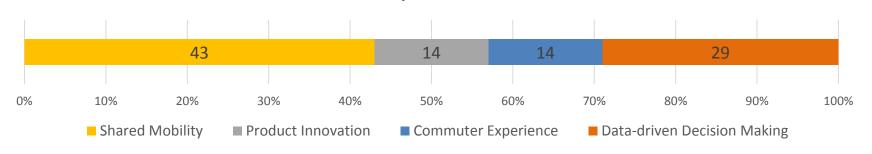


GROWING ACTIVITY IN EMERGING CITIES

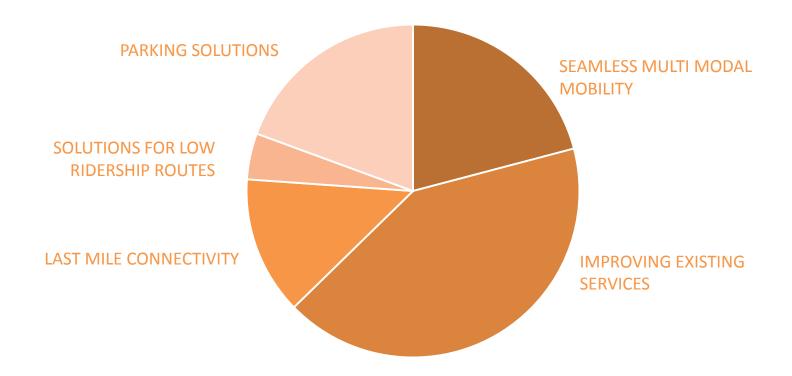
New mobility solutions in Asia



New mobility solutions in Africa



AND EMERGING PUBLIC-PRIVATE PILOTS



WHAT DOES THIS MEAN FOR CITIES?

- Business models are still evolving, in flux
- Impact is unclear
- Few existing studies funded by enterprises themselves
- Situation changing
 - NCE and WRR analysis
 - NRDC, UCB analysis of TNCs
- Need for analysis of impact on emerging cities



IN THE LAST 5 YEARS, NEW MOBILITY ENTERPRISES FOCUSED ON REDEFINING THE END-TO-END TRIP

END TO END TRIPS

- No shift for those that walk, cycle
- Positive impact in North America from car-driving populations:
 - Access to carshare removes 9-13 vehicles on road and postpones purchase
- In Mumbai, initial study indicates:
 - 69% would have made the trip by regular taxis in the absence of on-demand taxis
- Income for drivers on shared mobility platforms has increased:
 - Speed of payment
 - Number of rides completed in a day

Equity
Mixed impact*

Emissions
Poor impact*

Safe access
Positive impact*

Congestion
Mixed impact*

(CONTINUED)

- Autonomous, shared vehicles promise 90% reduction in number of vehicles
- Expected to lower operating costs
- Technology being tested on buses too
- Without necessary regulation can result in "zombie cars"
- Impact on people working as drivers will be drastic
- Impact on cities with high walking / cycling will be very different

Equity Poor impact

Emissions
Mixed opinions

Safe access
Positive impact

Congestion
Mixed opinions

THANK YOU

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