

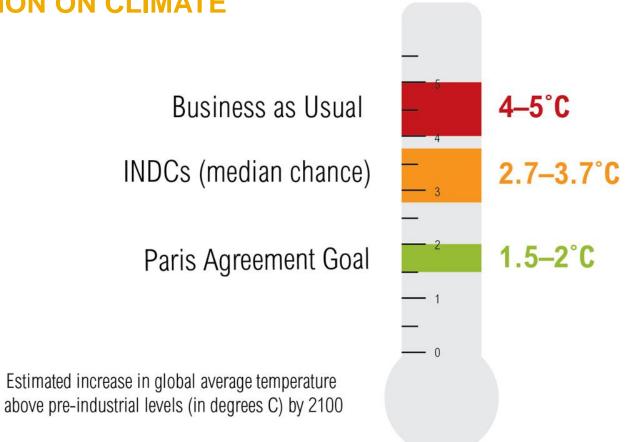
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TOWARDS A NEW SUSTAINABLE MOBILITY

Holger Dalkmann

PHOTO CREDIT: BENOIT COLIN/WRI

NEED FOR ACTION ON CLIMATE



Source: WRI analysis by Kelly Levin and Taryn Fransen http://www.wri.org/blog/2015/11/insider-why-are-indc-studiesreaching-different-temperature-estimates



VISION

To facilitate Sustainable Mobility for All through four objectives:



Improved lives and livelihoods of billions of people across the world—their health, their environment, their quality of life—and climate change stabilized over the long term.



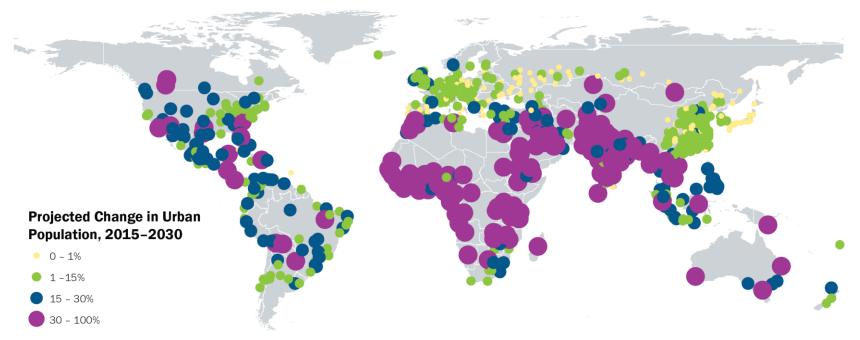
TRANSPORT IN THE SUSTAINABLE DEVELOPMENT GOALS



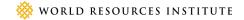


Based on World Bank Analysis

ASIA AND AFRICA WILL HAVE RAPID GROWTH



In the next 20 years, 300 million people will be added to cities in China and India alone



RISE IN MOTOR VEHICLE USE

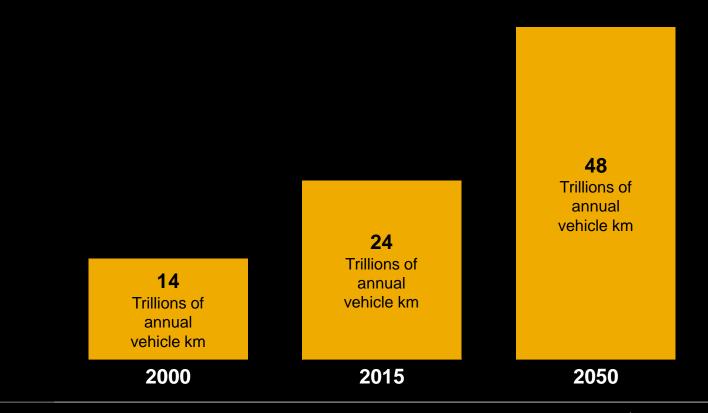
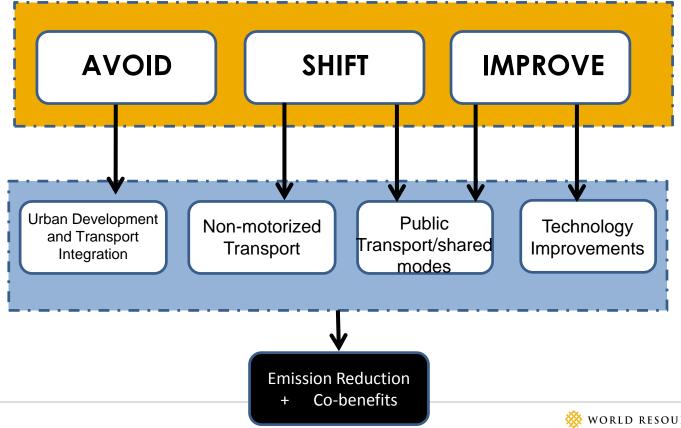
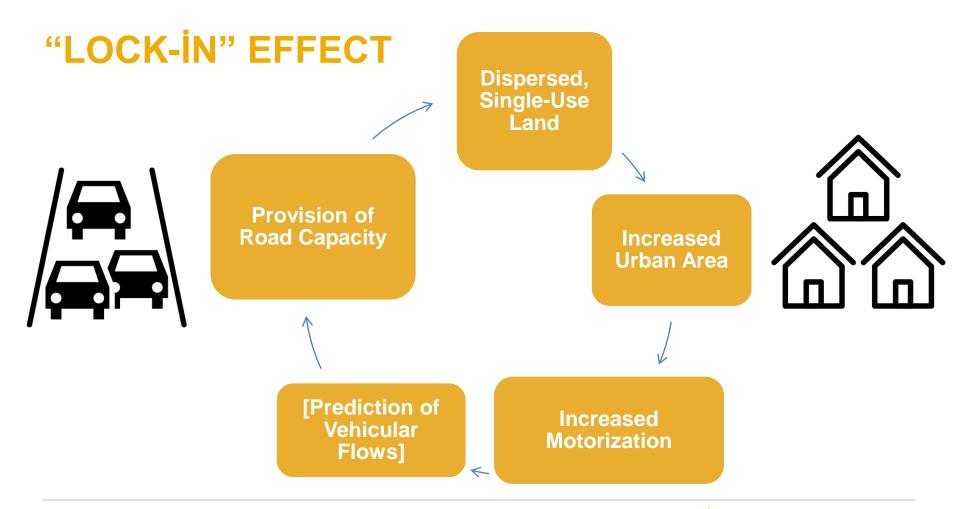


Photo: Dimitris Argyris/Flickr



AVOID-SHIFT-IMPROVE (ASI) APPROACH IS NEEDED





Graphic Source: "Yo! Baba"/Noun Project, IYIKON/Noun Project

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OUR VISION FOR SUSTAINABLE CITIES

CONNECTED

COMPACT

COORDINATED

Avoiding the lock-in effect of unsustainable urban development



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NEW MOBILITY AS DISRUPTIVE SOLUTION

MEDIA ATTENTION...





Date	Partnership	Details
Jan 2016	GM – Lyft	\$500 million invested into Lyft
Mar 2016	GM – Cruise 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
Sep 2016	Ola – Mahindra	Mahindra-Ola package for Ola drivers
Sep 2016	Ford – Chariot	Ford buys Chariot in all cash deal



CHINA: COUNTRY OF NEW MOBILITY

- DIDI: 400 MILLION USERS IN 400 CITIES
- VALUE OF US\$40-60 BILLION (MORE THAN UBER)





Source: <u>http://philippineslifestyle.com/wp-content/uploads/didi-china.jpg;</u> https://cdn.macrumors.com/article-new/2016/05/Didi-Chuxing.jpg



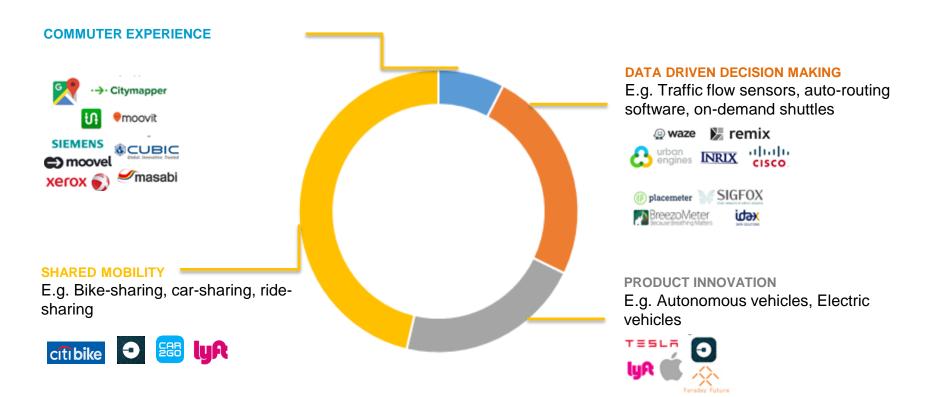
WHAT IS NEW MOBILITY?

Models using technology to deliver transport in new ways





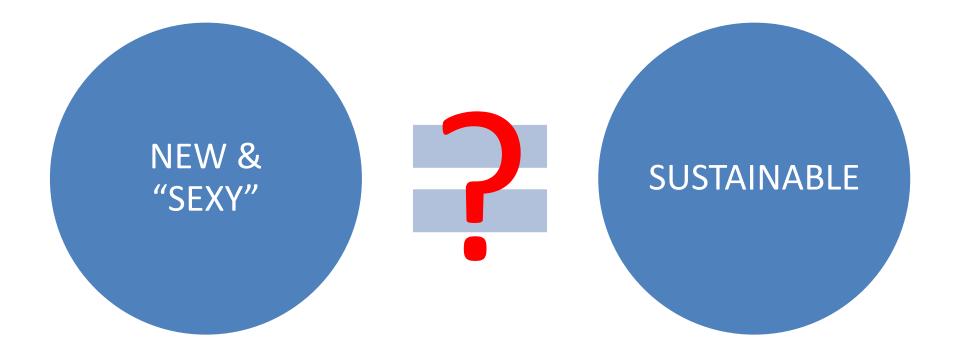
SIGNIFICANT PRIVATE SECTOR ACTIVITY



Source: CrunchBase and AngelList. 417 solutions identified globally. Most number of solutions in North America, Europe, and Asia

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THE KEY QUESTION





TOWARDS A SUSTAINABLE LOW CARBON FUTURE: INTEGRATION & DISRUPTION

- New players
- New opportunities
- New narrative



TOWARDS A NEW SUSTAINABLE MOBILITY

New Sustainable Mobility (NSM) uses information and communication technologies to enable more equitable access to urban opportunities while reducing emissions, injuries and fatalities and improving urban efficiency.





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SIX ACTIONS TOWARDS A NSM

1. SYSTEM INTEGRATION

Avoid competition with mass

Serve as last mile solution Enable better a ccess for all

Photo Credit: Benoit Colin/W RI

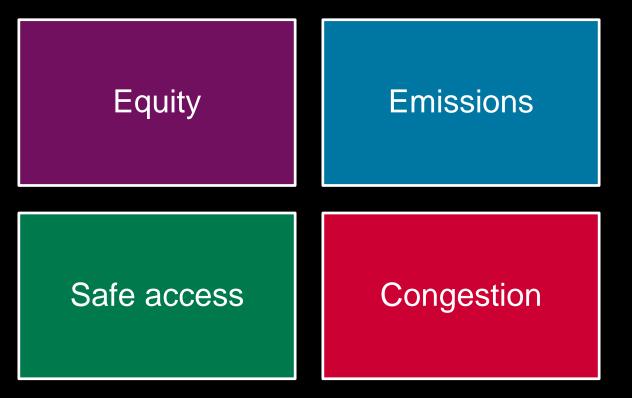




3. OPEN DATA

Enable acces Better planning Better manage - Enable charging - Measure impact

4. ENABLE IMPACT ASSESSMENT AND MONITORING



5. POLICY AND REGULATION





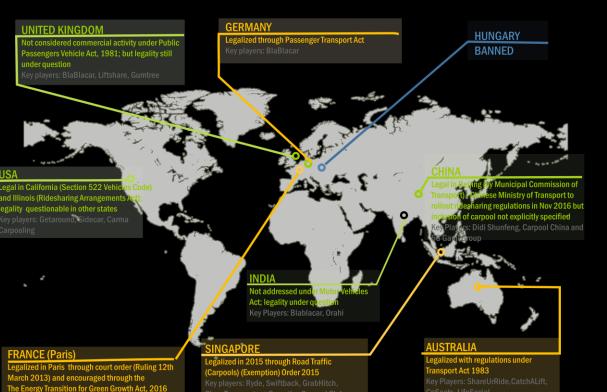
UNCERTAINTY ON REGULATION – E.G. CAR POOLING

KEY: STATUS OF GLOBAL CARPOOL REGULATIONS

Carpooling models are legalized

Carpooling models legality in question

Carpooling businesses are illegal



6. INNOVATION BEYOND PASSENGER VEHICLES

Bike-share - new systems like Mo-bike Minibuses on demand New soutions for urban freight...

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Photo Credit: Benoit Colin/WR

THE WAY FORWARD

Get cities back in the driver seat - tell the technology prov Ce to do for do it to you

Photo Credit: Benoit Colin/WRI

THANK YOU

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