

Future of New Mobility Business Models & Role of Cities as Facilitators

Changing Urban Demographics

Are Leading To Travel Problems That Today's Mobility Services Aren't Solving



 Over 54% of the World's population lives in cities, expected to rise to 67% by 2050; urbanisation exceeds 80% in OECD countries



- Drivers spend 50 hours per year in congestion which stifles the economy of 1% of GDP
- 7 million lives are lost prematurely due to air quality; mobility is the largest sector contributor



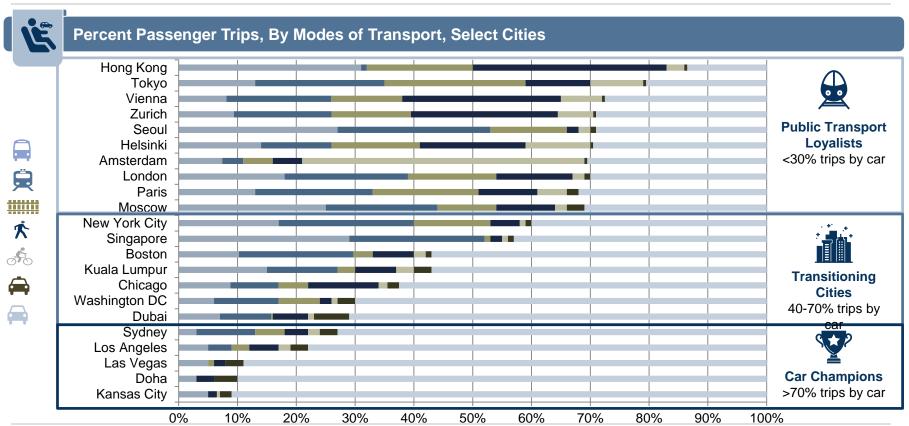
 Private cars are utilised 4% of the time and account for 29% of transport trips on average, but account for 85% of our mobility expenditure

The global transportation market requires new mobility solutions

Sources: World Bank, World Health Organisation, Inrix, European Commission, Eurostat

Towards Sustainable Modes: Evolving Commuting Patterns across Cities

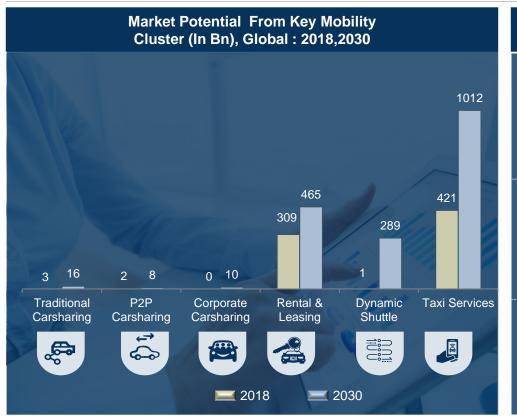
More than 70% of trips are made by Personal Car in Dubai- which adds to congestion and increase journey time by 29%

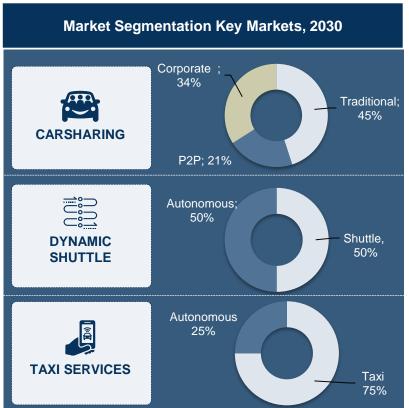


Source: Frost & Sullivan

New Mobility Solutions Market Will Grow to Around \$2tr market by 2030

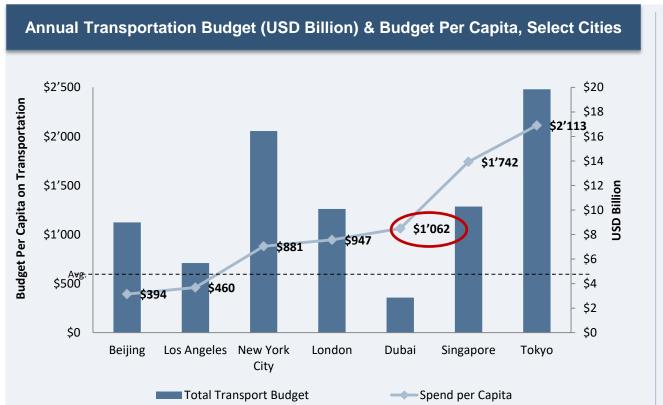
Revenue from the taxi cluster alone expected to exceed \$1 trillion in 2030

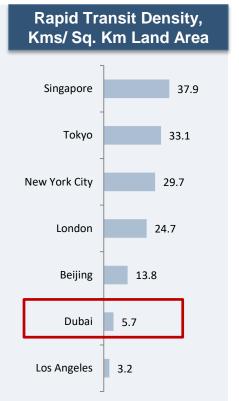




Transport Budget and Allocation on services vary significantly across Cities

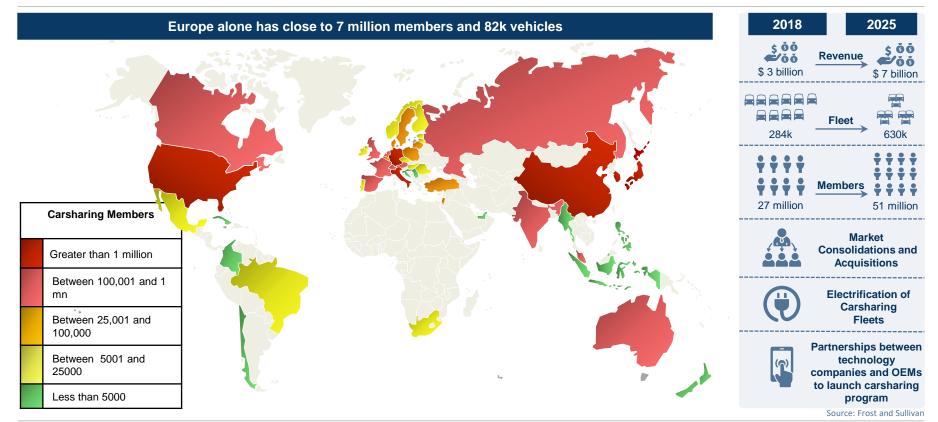
The City of Dubai spends approx. \$1,000 per capita for Transportation, 60% higher than global average





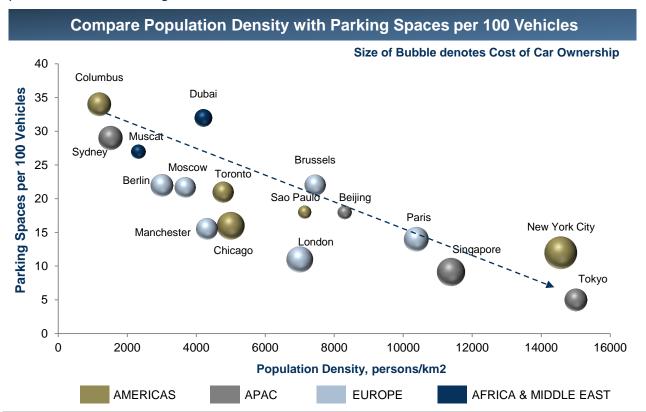
Heat map of Key Carsharing Markets

Germany and France alone account for around 50% of the overall carsharing membership in Europe; Germany has more than 2.5 million carsharing members.



Potential for Car Sharing scalability across city clusters

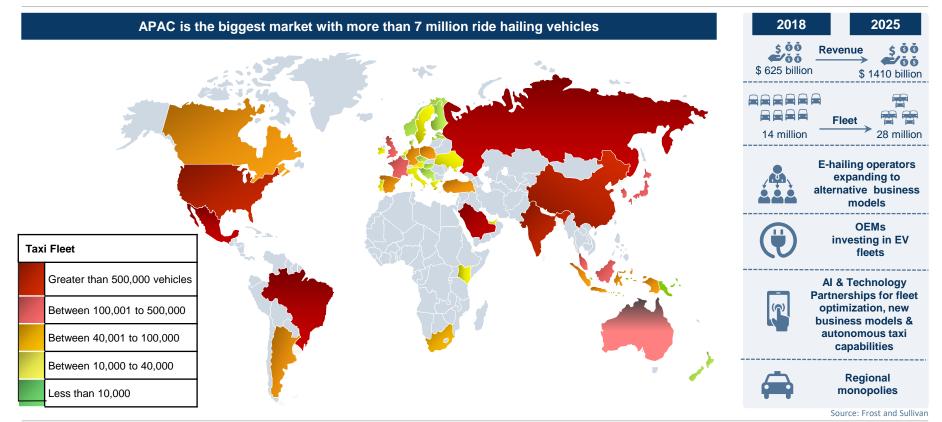
One car sharing vehicle can cater to 13 trips a day- an average 2 million trips are made daily by cars which offers 3X growth potential in car sharing fleet across the cities





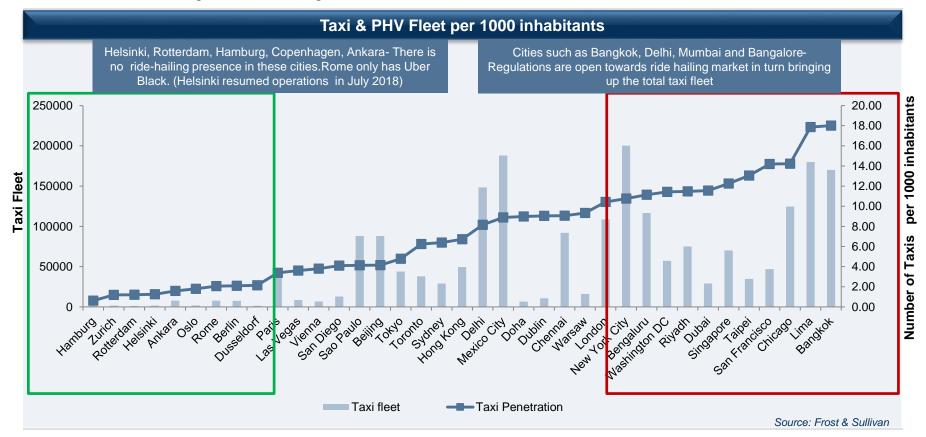
Heat map of Key Ride Hailing Markets

Markets such as NA, EU, and APAC are entering the maturity phase with opportunities in tier 2 and 3 cities; LATAM, Africa, and ME are the new emerging hotspots



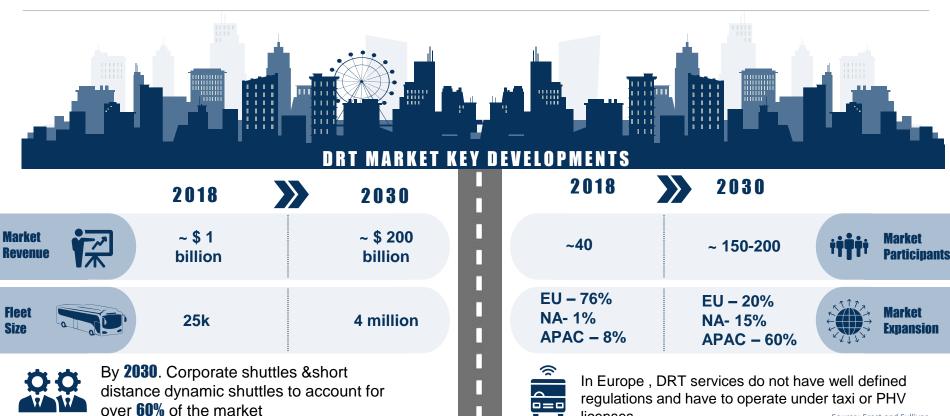
Taxi & PHV Fleet Penetration

Growth in the taxi market is expected to be determined by government intervention, particularly with respect to regulations and subsidies to shift to greener technologies



30% Of Public Transit Networks To Become Demand Responsive By 2025

Public transit operators such as Arriva, BVG, and RATP have launched DRT operations independently. Cities are also actively pursuing alternative and sustainable mobility modes.

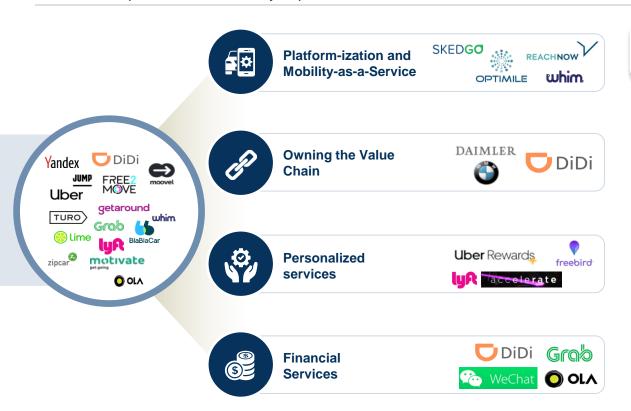


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Source: Frost and Sullivan

Diversification & Expansion By Mobility Service Providers

Shared mobility providers will gain ownership across the value chain, provide MaaS as a comprehensive and sustainable solution and offer more personalized mobility experiences for users.

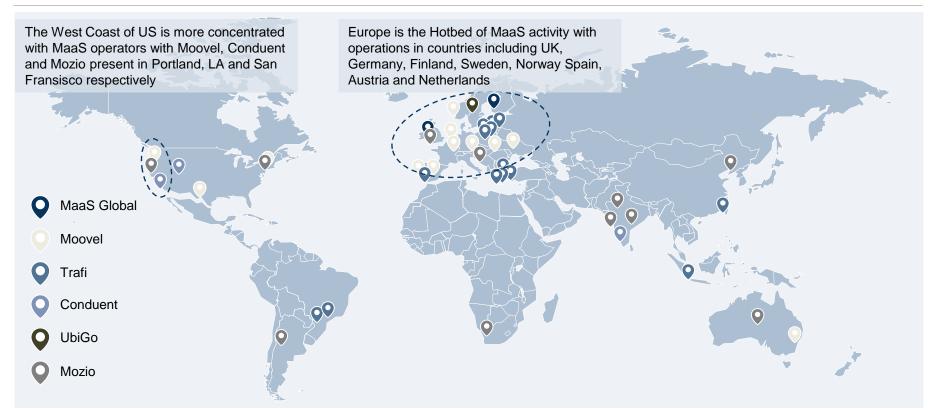




Source: Frost and Sullivan

Mobility as a Service (MaaS) Poised to Streamline Urban Mobility

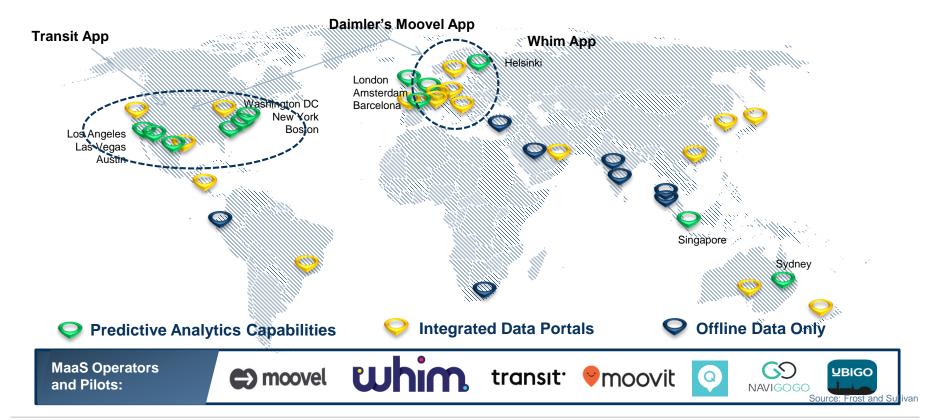
Pilots witnessed in more than 15 cities; collaboration between key stake holders and Standardized data sharing platforms to facilitate adoption



Source: Frost & Sullivan

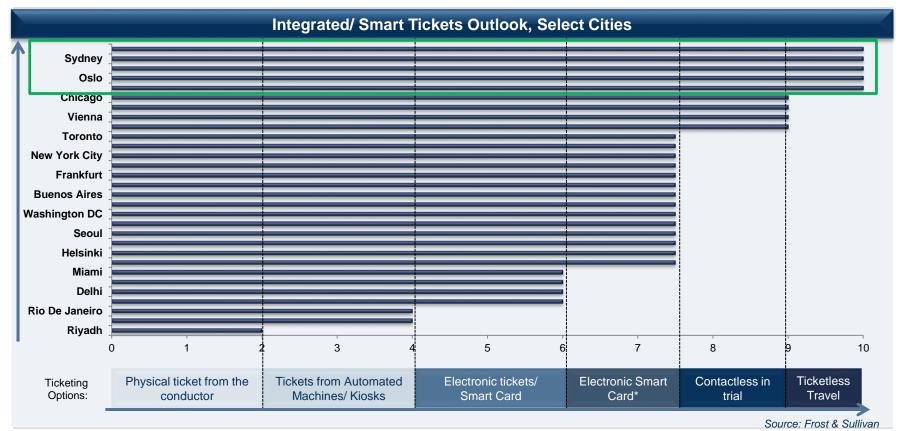
Readiness of Cities for Service Integration and Digital Applications

European Cities are more prepared to launch Mobility-as-a-Service, due to the governments' push to mandate all transport operators to openly share data



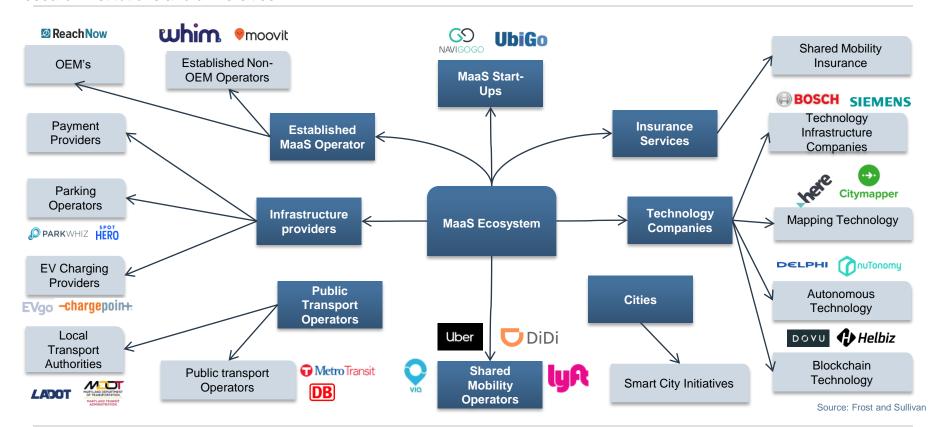
Smart Ticketing Outlook across cities

Integration in Payment systems is crucial to launch mobility as a service- 5 cities globally launched contactless payment systems across the public transit network



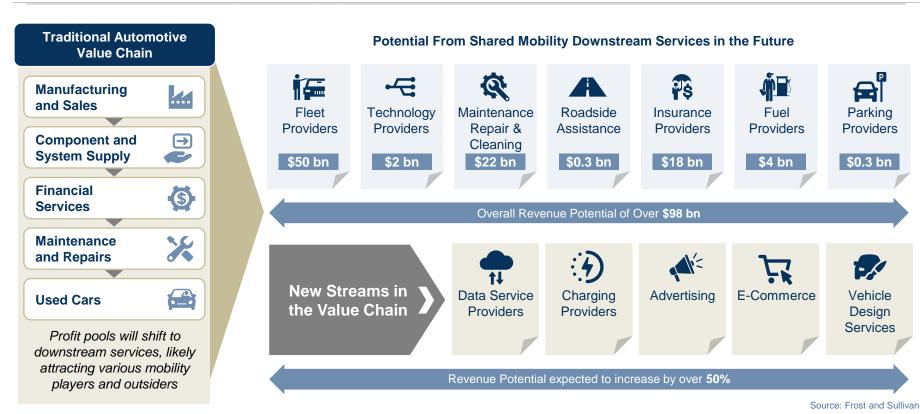
Evolution of the MaaS Ecosystem

Market is witnessing rise of start-ups in this space which are being driven by various institutions including government bodies, research institutions and universities



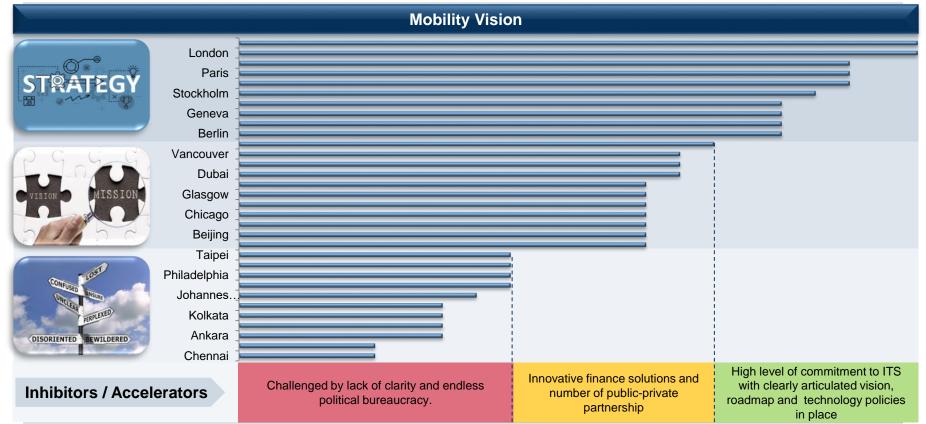
Transformation of Shared Mobility Value Chain

Penetration of electric and autonomous vehicles and growing need for smart data services will disrupt value chain segments such as e-commerce, technology and charging infrastructure.

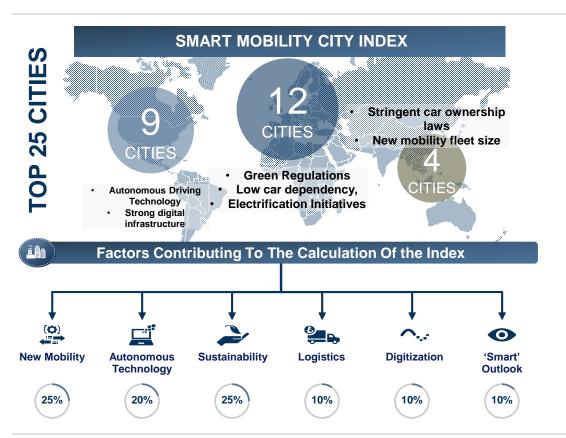


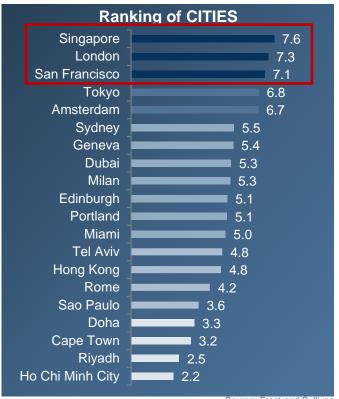
Mobility Vision

While more than 20 cities globally have defined a future vision for mobility, majority of these are part of the European region having a strong focus with well-defined frameworks for future mobility.



Frost & Sullivan ranks 100 global smart cities for Intelligent Mobility





Top 5 Predictions for the Future



Source: Frost and Sullivan

BUSINESS a(0.67.60-0)-(0-6) Q&A

