

The Future Market Environment of Mobility

Key Note Presentation

Fleet Mobility EXEX Lithuania

24th February 2016



Today's Agenda



Agenda

Introduction

**Transformational Shifts Reshaping the
Future of Mobility**

Conclusions

Contact Us

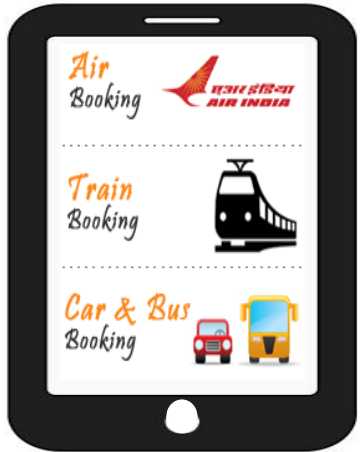
Source: Frost & Sullivan

Transformational Shifts Reshaping the Future of Mobility

Top Transformational Shifts Expected to Shape the Future of Mobility



Connected and Automated Mobility



Mobility Integration



Convergence in Corporate Mobility



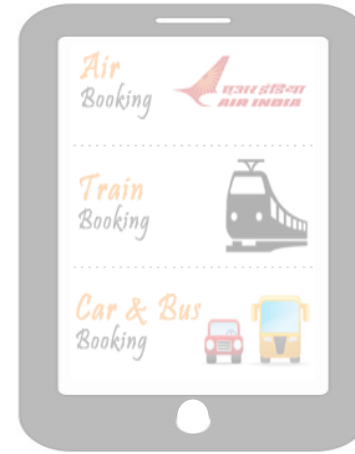
Automated Driving

Top Transformational Shifts Expected to Shape the Future of Mobility

- Connected and Automated Mobility



Connected
and
Automated
Mobility



Mobility
Integration



Convergence
in Corporate
Mobility



Automated
Driving

Future Connected Living Ecosystem

The connected life contains three important environments, all with high expectations for “everywhere”

Connected Living Total Market: \$730 Billion in 2020

**Connected Home –
31%**



- Home Automation
- Home Energy
- Home Health
- Home Entertainment

**Connected Work –
15%**



- Mobility - Mobile email, Unified Communication
- Mobile Working
- Enterprise Social Networking

**Connected City –
54%**



- eGovernance
- eCitizens
- Personal and Freight Mobility
- E-learning
- Mobile banking

Source: Frost & Sullivan

Connected Car Programs at OEMs are going through a Major Strategy Change

New Customer Experiences

Ability to push new retail experiences to customers relying on the IOT



Retail

Aftersales



Profit Generation

Ability to use connectivity to decrease recall rates and increase service revenues over lifecycle



Mobility

New Revenue Streams

Create new sustainable revenue streams using connectivity and personalized services

New Services



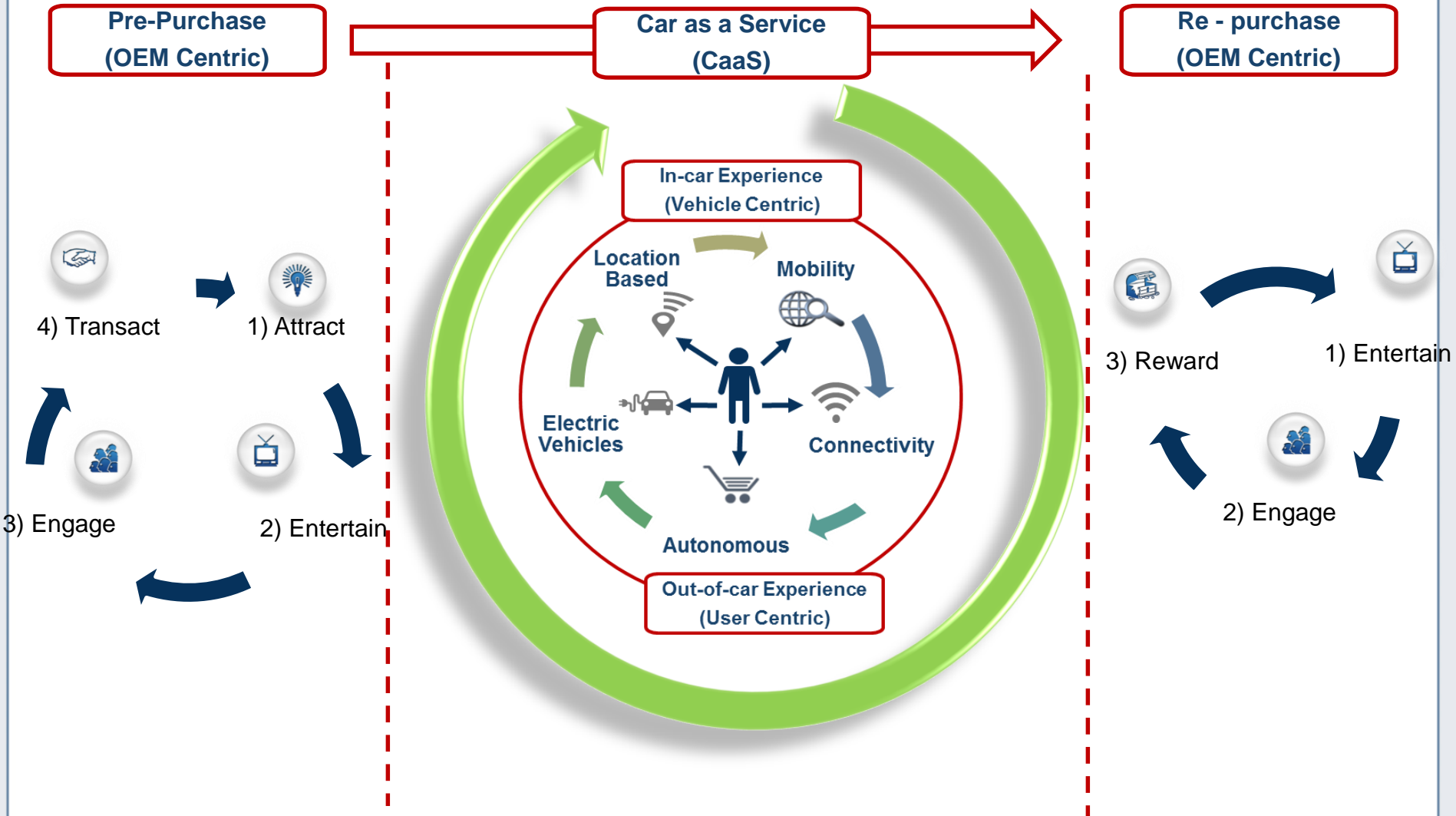
Impacting Overall Safety

Ability to add connectivity to enhance the overall safety of the customer

Safety



Understanding the typical automotive customer journey is crucial to developing products & services around the vehicle



Evolution of OEMs Mobility Services

Car companies are evolving from the business of manufacturing & selling just cars, to providing related services, and multi-modal mobility solutions to target new customers, and future proof their business

Car Independent



Integrated Mobility:
Journey Planning,
Booking &
Payment

City Planners &
Lifestyle

Energy creation &
storage

Car Services



Carsharing

Parking &
Charging

Ride-
sharing

Taxi &
Limousine

Automated
Driving

Car Ownership



Finance

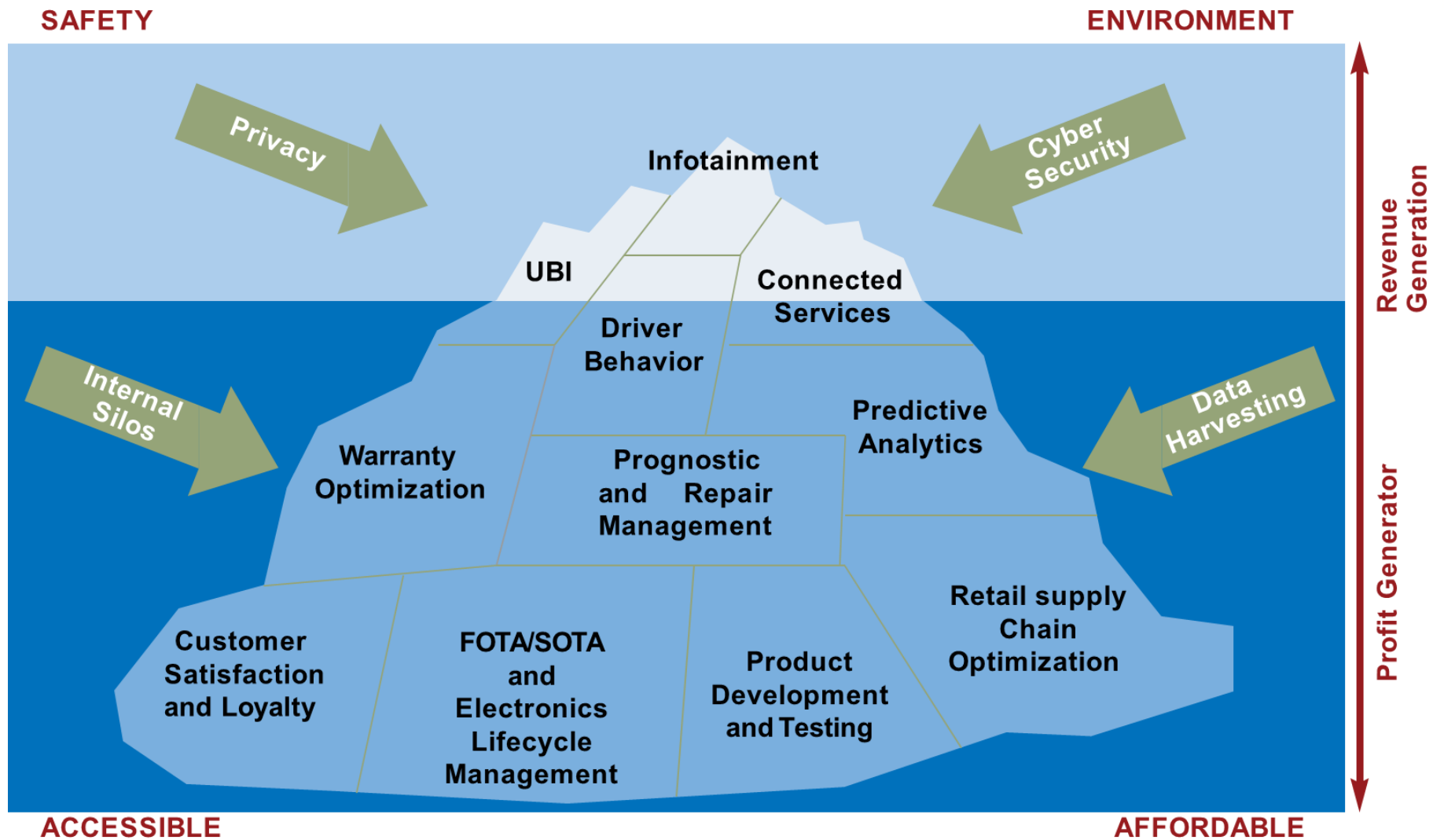
Maintenance

Connected
Services

Evolution & Expansion of OEM Services

Potential for explosive growth

Ultimately connected car programs need to be profit generators and customer loyalty improvement programs which have large potential for growth



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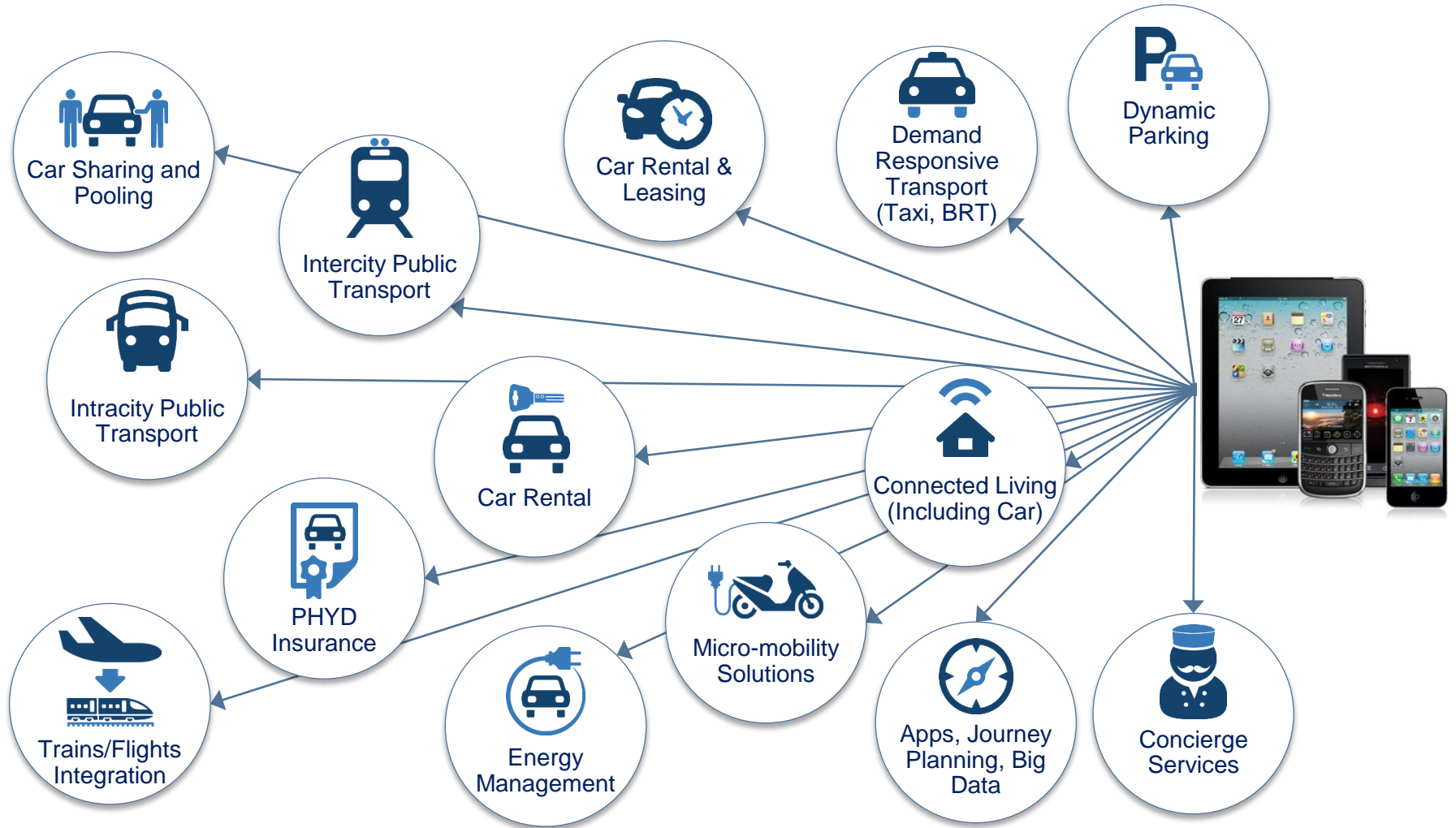


Convergence
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Automated
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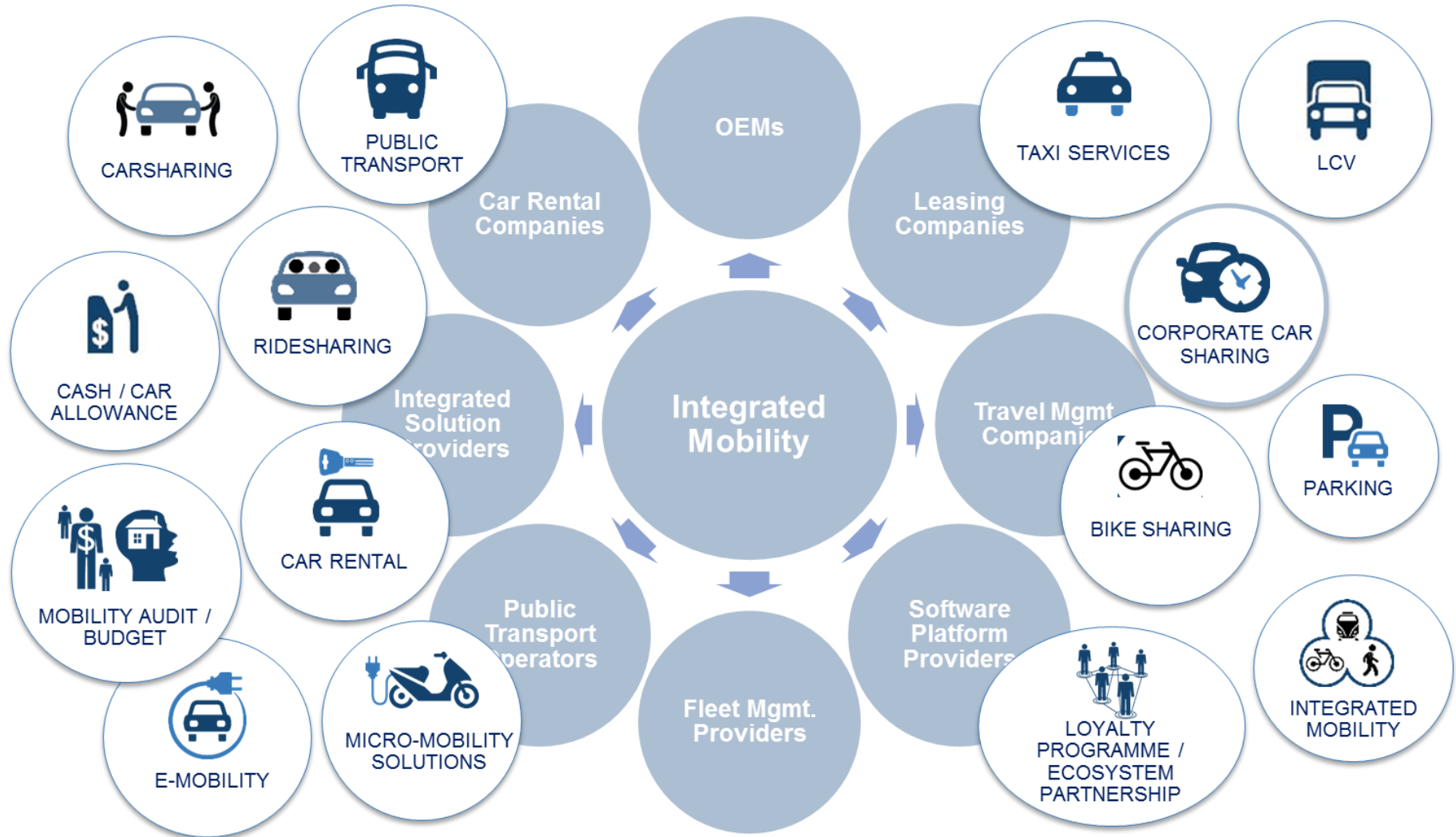
Tech Enabled, Door-to-Door, Multi-Modal Travel Bringing Convenience, Time & Cost Savings



Source: Frost & Sullivan

Mobility Landscape – Many Actors, New Partnerships, New Models

Across Consumer and Business environments customers are demanding intuitive services; many actors investing significantly to deliver the 'killer' proposition & seamless user experience



Intelligent Mobility—An Emerging Concept that Revolutionizes Mobility

Intelligent mobility aims to create vehicles that promote a eco-driving experience, insulated from crash fatalities and tuned to combat congestion.

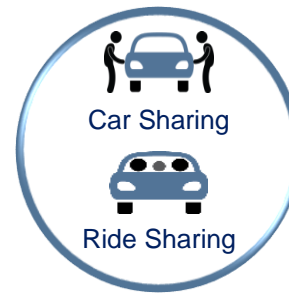
Current 2015



Safety



Environment

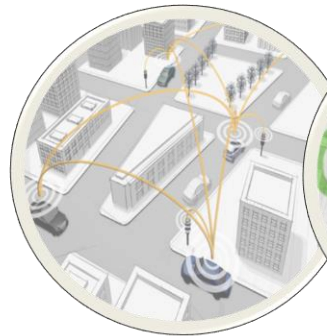


Transportation

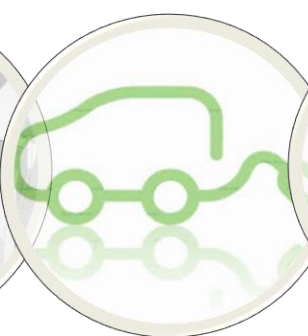


Siloistic Approach

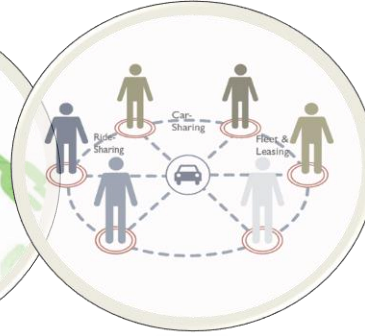
Future 2035



Connected & Automated Mobility



Smart & Eco-driving



New Mobility Models

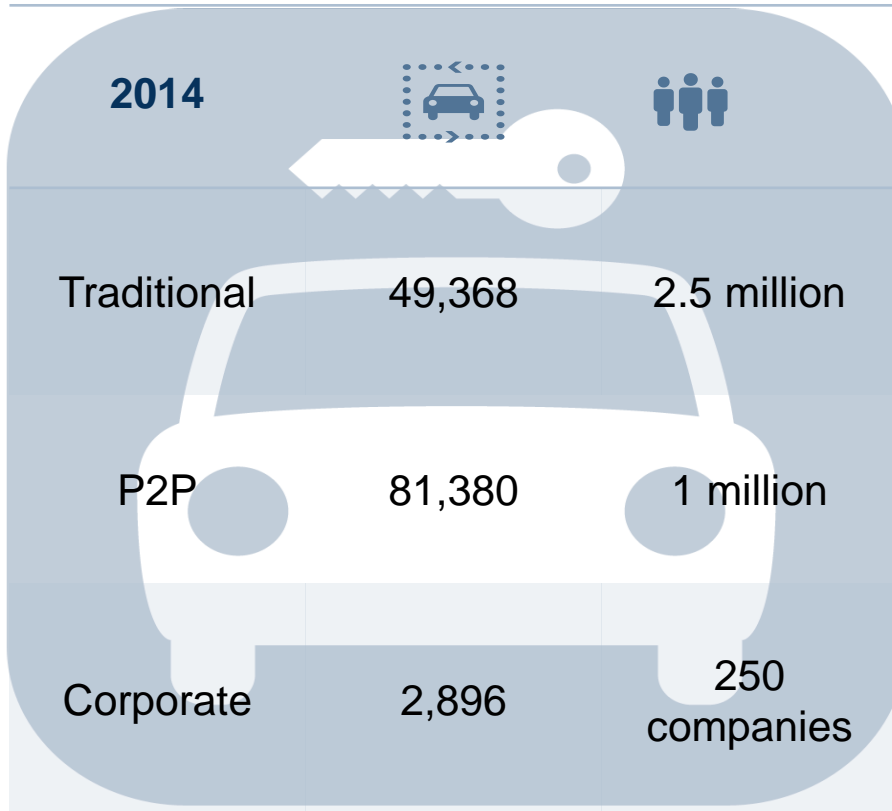
Integrated Approach

Source: Frost & Sullivan

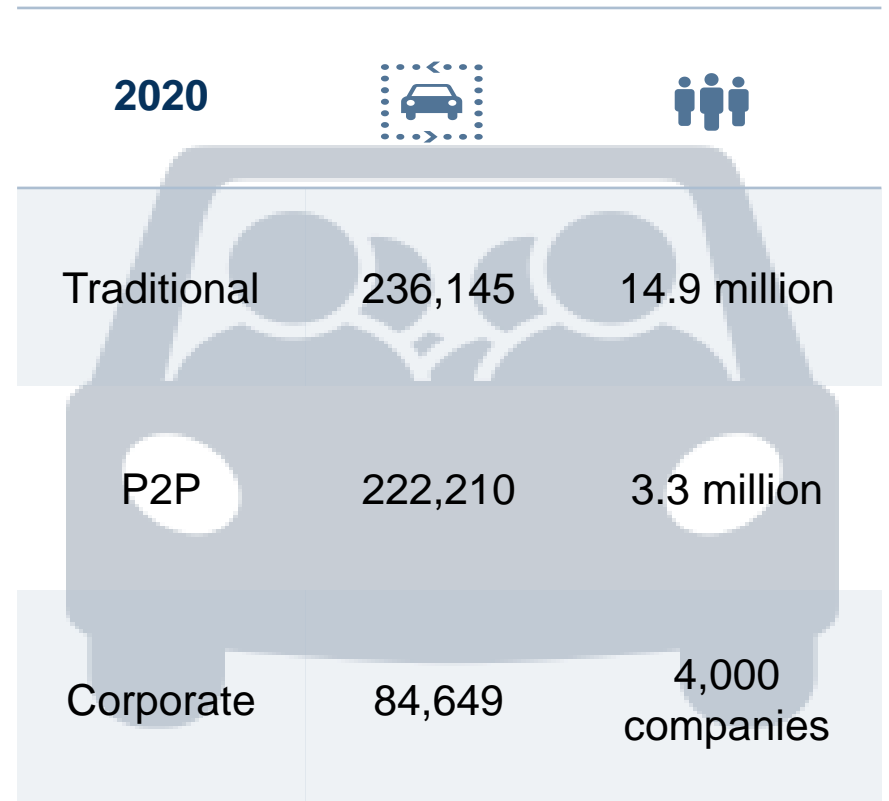
New Business Models - Growth of Car Sharing

Over 543,000 vehicles to be shared in Europe by 2020

Carsharing



Carpooling



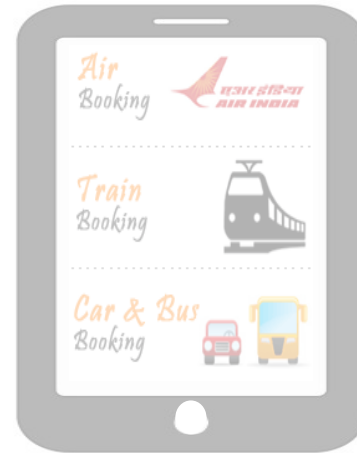
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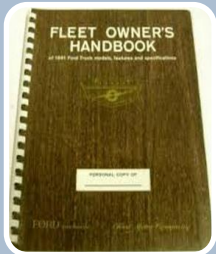


Convergence
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Mobility



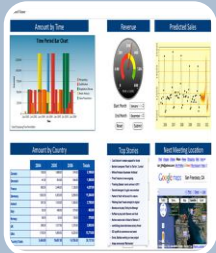
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Future of Corporate Mobility – From TCO to TCM



Total Cost of OWNERSHIP

- Running Core Fleet & Keeping Company Drivers Informed



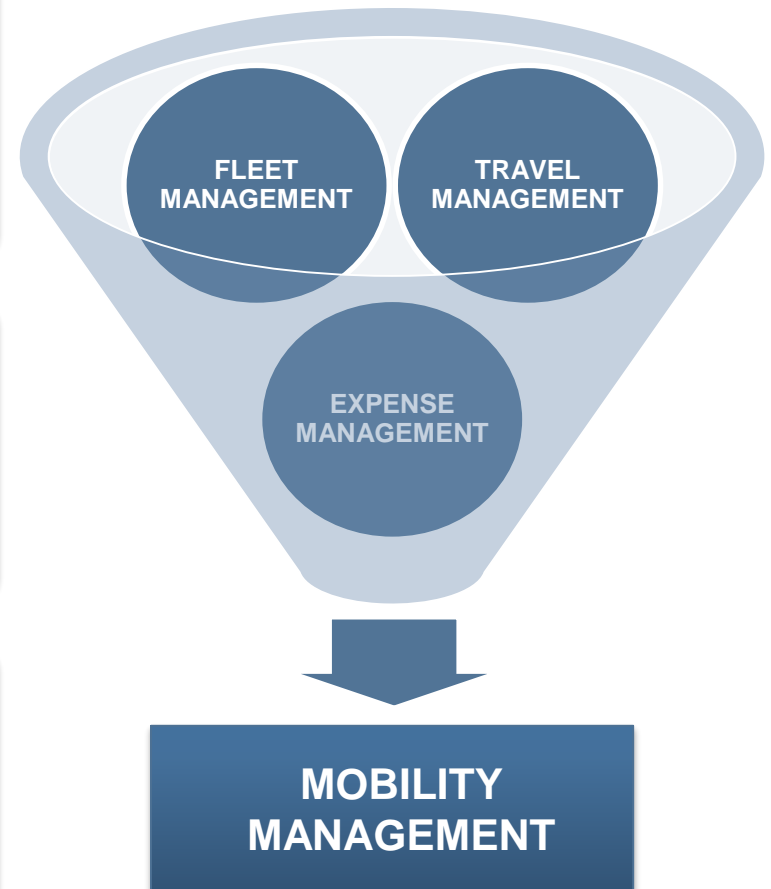
Total Cost of USERSHIP

- Managing Overall Fleet & Educating All Company Drivers



Total Cost of MOBILITY

- Delivering Integrated Services & Empowering All Employees



Source: Frost & Sullivan

Interest Towards Mobility Allowance

54% of the sample expressed interested in a move to a “Mobility Allowance”
As expected Belgium (62%) and Netherlands (59%) expressed greatest interest.

16%

Very interested In mobility allowance solution

38%

Somewhat Interested in mobility allowance solution

17%

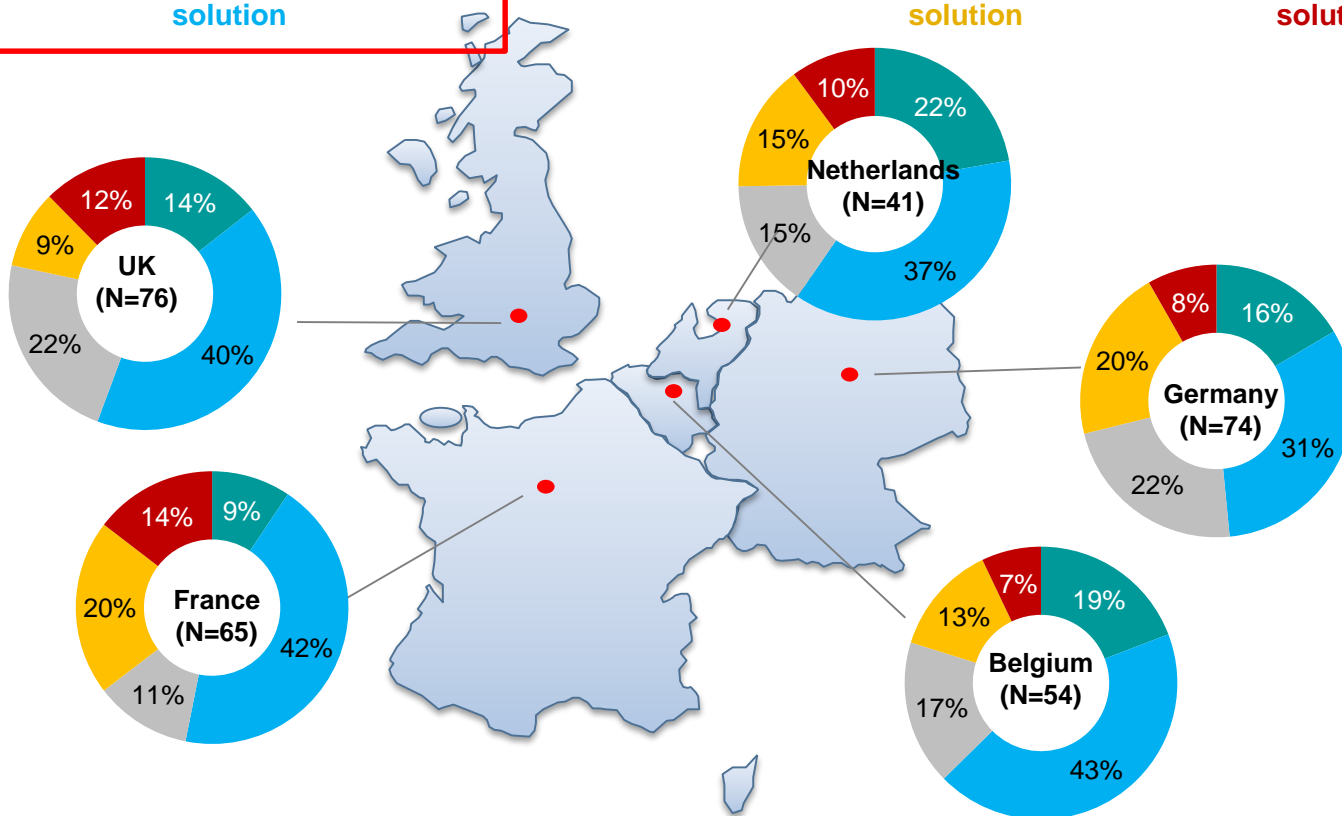
Neither/Nor

16%

Somewhat not interested in mobility solution

10%

Not interested at all in mobility allowance solution

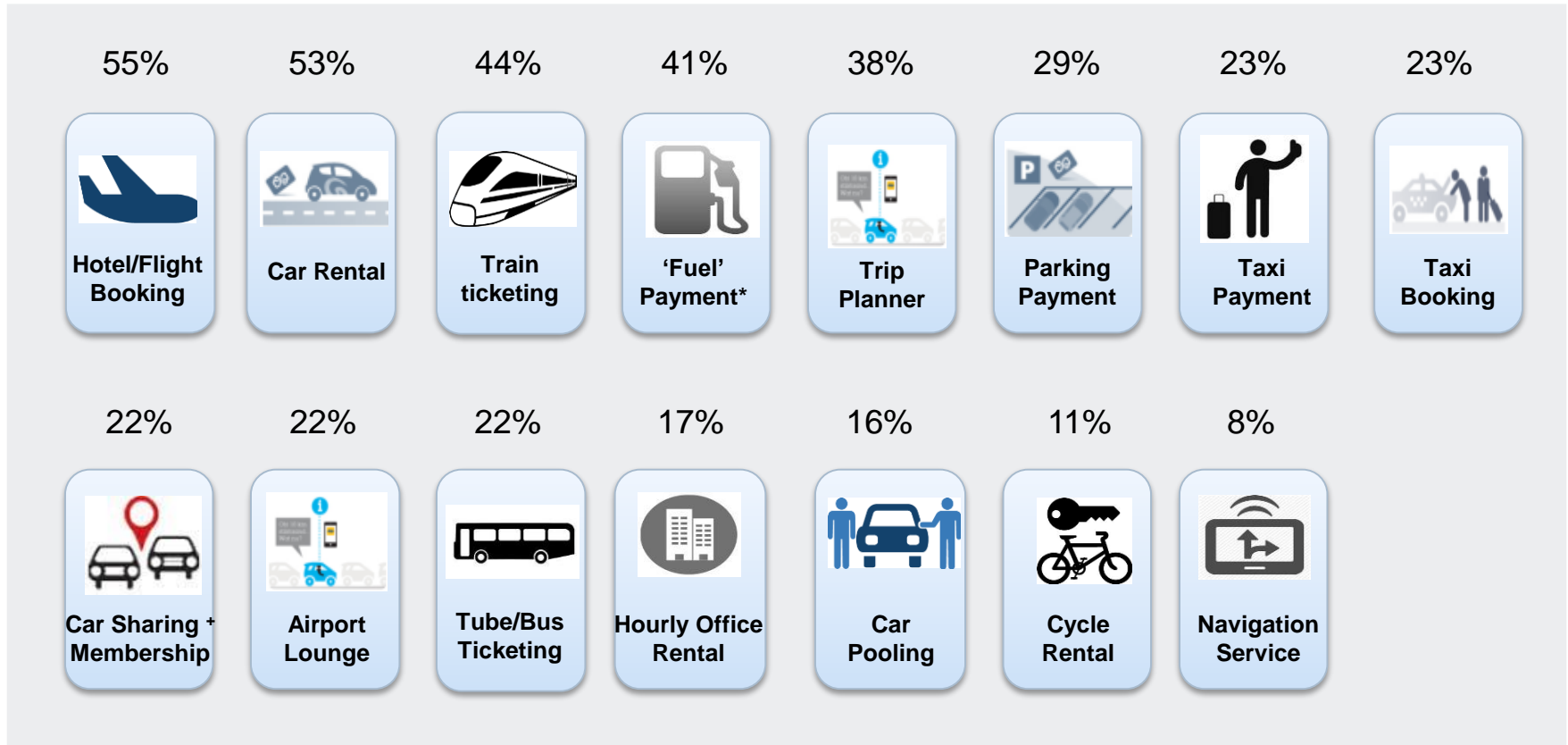


Q10. Interest in mobility allowance solution? Base: those who have corporate car or cash allowance N=310

Mobility Integration Services

Services typically integrated by a Travel Management Company are the most preferred. Payment options feature prominently; an any device strategy is integral to Future Mobility

Most Preferred Services (top 5 ranking) - Europe



Q31. Most preferred services in an integrated solution n=465

Preferences were selected by respondents from a pre-defined list of services as opposed to a free format / free choice approach

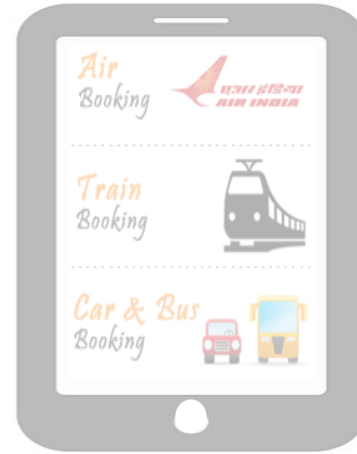
* Covering payment of traditional fuel, energy and other services available from fuelling / charging stations e.g. cleaning / valeting

+ On-demand access to vehicles through services such as DriveNow, Car2Go, Zipcar, etc.

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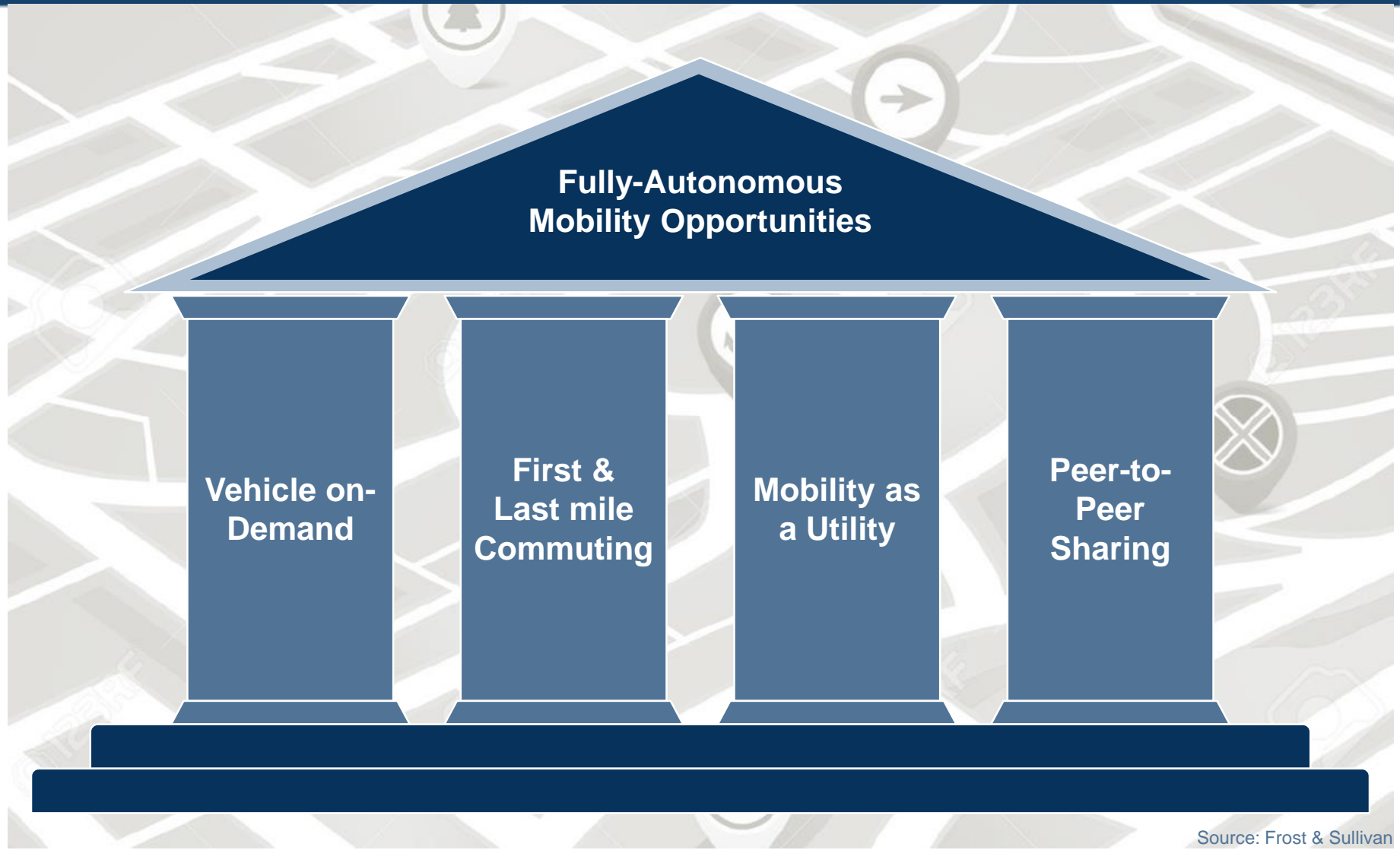
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Autonomous Cars New Business Models

Four key areas impacted by Fully-Autonomous Mobility



Autonomous Vehicles to revolutionize the e-Hailing Business Model – Case Study – New York Yellow Taxi

Automated Driving Business Models: Case Study – New York Yellow Taxi, NA, 2015

Current Taxi Market	Parameter	Future Taxi Market
36	Average number of daily Trips per taxi	~50 
200	Average Daily Miles Covered by a Taxi	~350 
7.1%	Taxi User Base (% of Population)	15-20% 
22.39	Number of Taxis per 1000 Daily commuters	~18 
\$540 (2013)	Driver cost per day	\$0 
50,000	Number of Drivers	0 
\$6.31 (2013)	Average Fare per mile	~\$4 
\$29,700 (2014 Nissan NV200)	Taxi Price	\$40000 

Note: Taxi user base in New York City was 600,000 passengers per day in 2014

Source: NYC Taxi And Limousine Commission, Frost & Sullivan

With Increasing Autonomy, Insurance Liability Likely to Shift to Software Algorithms

Present-day Motor Insurance Model in driver centric



Future Motor Insurance Model

1. Brand centric evaluation

Crash Prevention, Crash Worthiness, Algorithm.

Or

2. Product centric evaluation

Pods, personal vehicles, group rapid transit vehicles

Or

3. System centric evaluation

Increased Comfort, Option To Take Manual Control.

Manufacturers Product Liability

>80%



<20%

Users share of liability

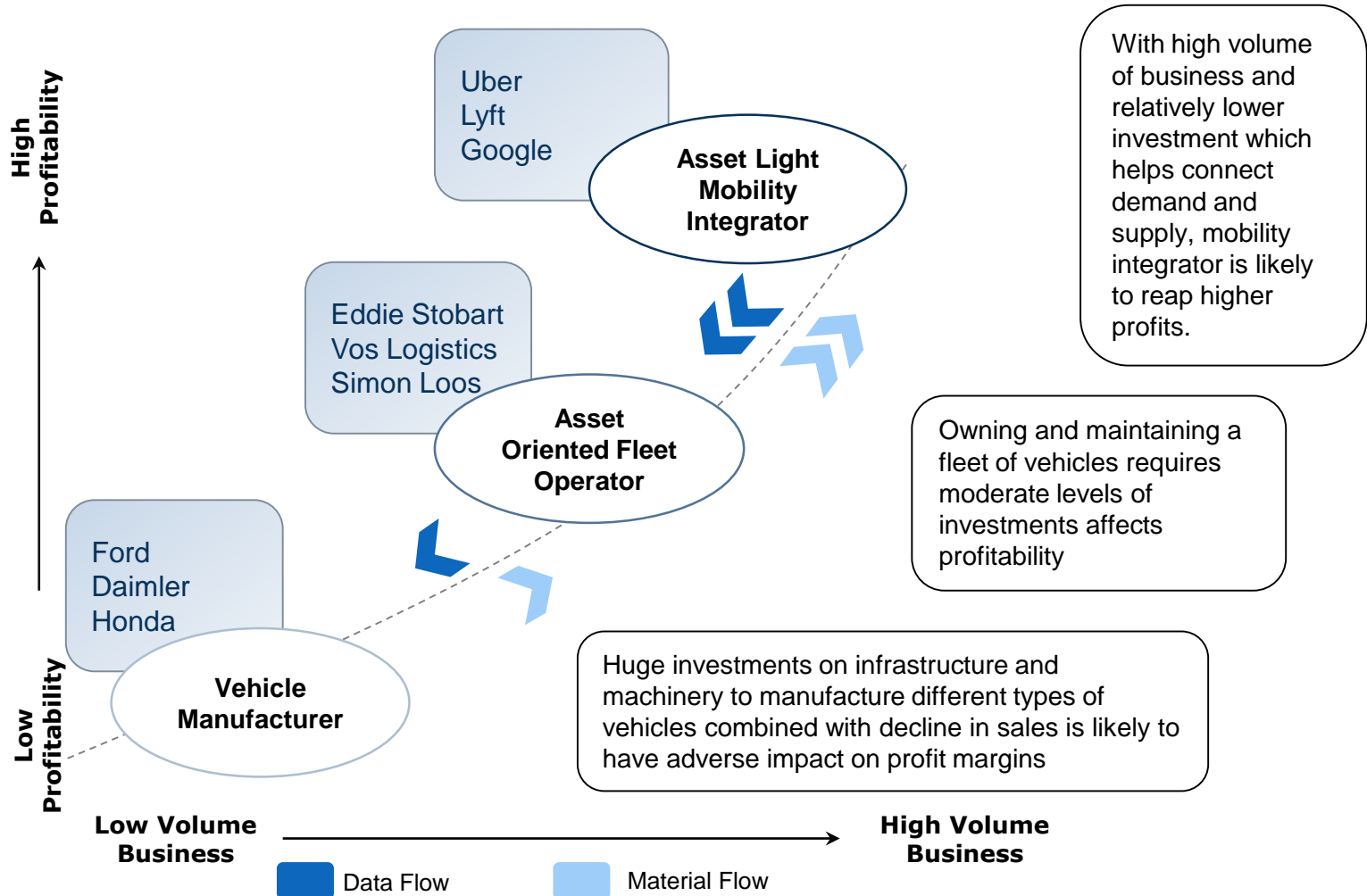
* Vehicle owner pays premium to cover some excesses such as stray incidents like theft, fire and vandalism

Source: Frost & Sullivan

Conclusions

Business Implication of Future Mobility Models for Key Stakeholders

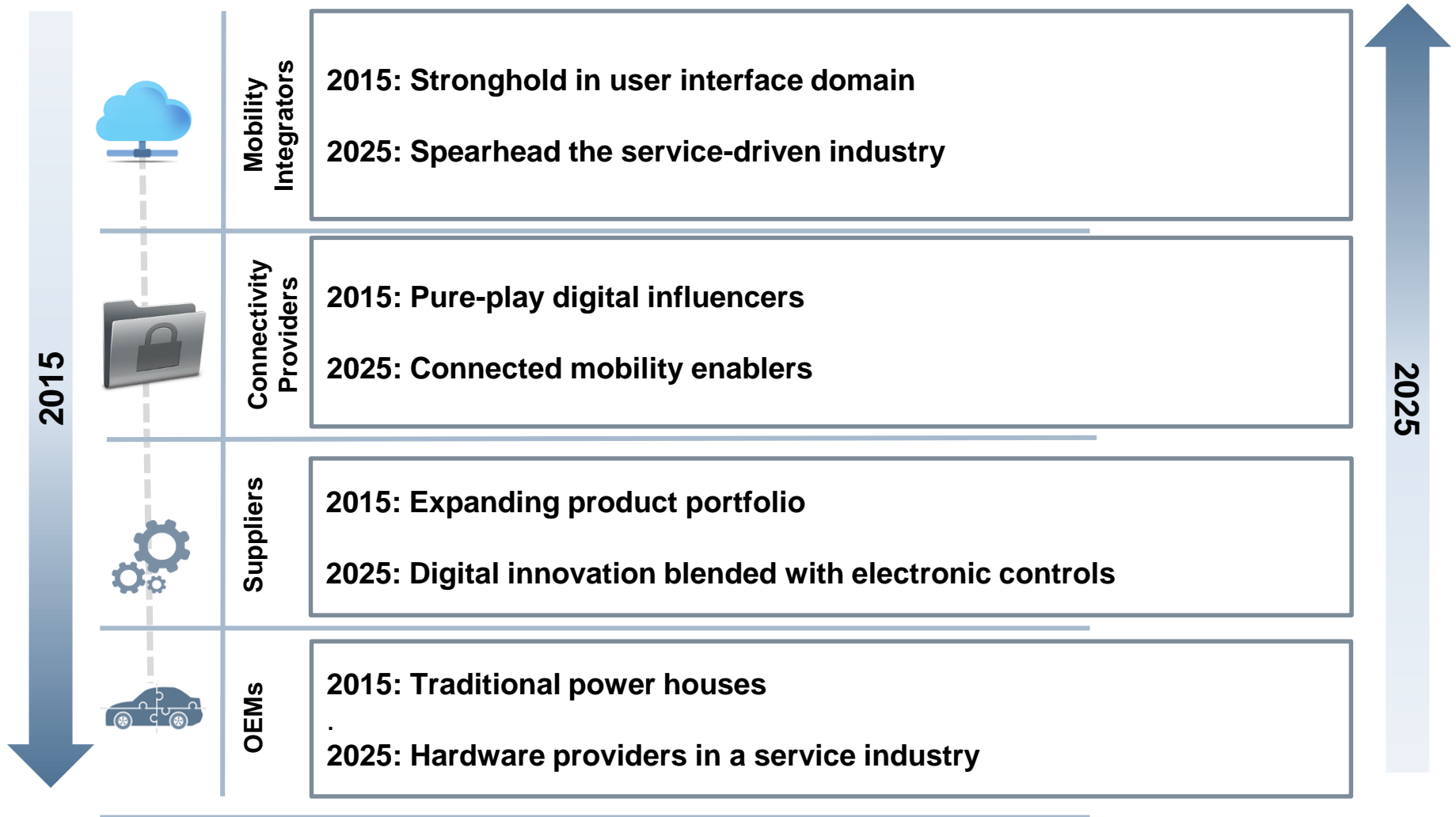
Although each stakeholder can possess a strong core competence, expanding their radius of power to exercise more control on at least one other stakeholder can increase the probability of success.



Source: Frost & Sullivan

Mobility Ecosystem Will Remain Hybrid Value Chain for Next 5 Years

Coexisting with the traditional ecosystem, a smartphone-like ecosystem may evolve in the automotive industry, which is strongly based on a user-interface oriented, service-driven business model.



Key segments influencing the market Low High Source: Frost & Sullivan

Thank You

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