Changing Gears 2020
How digital is transforming the face of the automotive industry
Executive Summary

Digital technologies are causing disruption across the global automotive industry. From digital engineering and 3D printing to smart sensors and the Internet of Things (IoT), digital is poised to disrupt automotive R&D, manufacturing, sales, marketing and post-purchase services.

The sector will witness the emergence of new players, such as software and mobility platform providers with nontraditional advantages, who will gain an increasing share of sector profits. Bain estimates that profits from automotive original equipment manufacturers’ (OEMs) traditionally core activities like vehicle engineering, manufacturing and sales could drop by about 8% from 2015 to 2025, even though industry profits are projected to grow about 35% in that same time frame.

While the implications of digital span every part of the automotive value chain, this report will focus mainly on its effect on the automobile customer. We surveyed 1,551 Indian customers to understand the digital influence on the purchase journey. We also surveyed 87 dealers and had conversations with top management teams from various automakers. Additionally, we drew insights from Bain’s Global Automotive Consumer Survey that included respondents from the US, the UK, Germany, China and India.

Our research reveals that the nature of the game is changing. Technology and new players in the industry are redrawing battle lines in the fight for the customer’s mindshare and, in the long term, the fight for relevance in the mobility space.
**The fight for the customer**

Almost **70%** of annual auto sales (about 19 million units or $40 billion) will be digitally influenced by 2020, a ~2.3x increase from today’s $18 billion.

- **Social media** will influence about **40%** of sales (11 million units, $23 billion in revenue) by 2020, up from about 20% today.
- **High digital influence** is shaping brand consideration: Digital will influence consideration in **60%** of consumers by 2020, up from about 45% today.
- **The role of the dealer** is evolving: Almost **50%** of auto buyers have made a decision on both brand and model before visiting a dealer.
- **Mobile** will continue to dominate the device mix: Almost **80%** of online research is currently conducted on mobile phones. This is expected to rise further with the growth of smartphones and mobile internet.
- **Younger consumers** will lead the digital charge: **49%** of consumers younger than 35 report digital influence on the consideration set compared with **40%** of those older than 35.
- **Post-purchase activities** are the next digital frontier: By 2020, over **40%** of consumers are expected to book services online and about **30%** will go online to purchase accessories, up from 14% and 8%, respectively, today.

Most Indian automotive OEMs are behind the curve in digital investments. They must redefine their marketing and customer engagement efforts to reflect the current behaviour and usage patterns of automobile buyers.
New mobility models are gaining acceptance. More than 40% of lead consumers report using app-based taxi services like Ola and Uber more than three or four times per week. Experiences in other markets indicate significant room for growth: India’s annual rides per capita (adjusted for cities where these operators are present) is 3.3, compared with 17.1 in China.

Other models that affect different aspects of the mobility landscape, such as route optimisation (for example, Zophop) and public transportation (such as Cityflo and RedBus), are also likely to experience growth.

While the demand for automobile ownership in India will likely remain robust, we will continue to see the proliferation of alternative mobility models. OEMs must begin to think of themselves as mobility providers rather than vehicle manufacturers.
We anticipate five critical imperatives for automotive OEMs to consider in this new competitive landscape:

1. **FOLLOW THE PROFIT:** Evolve business models to tap into shifting profit pools.

   Explore partnerships and targeted investments both forward and backward in the value chain to participate in profitable future businesses.

2. **FOLLOW THE CUSTOMER:** Radically change the investment mix to follow the customer online.

   Increase the proportion of digital marketing investments with a disproportionate focus on discovery and consideration.

3. **BUILD THE DEALERSHIP OF THE FUTURE:** Differentiate the retail format.

   Convert dealerships into brand experience centres by developing differentiated retail formats with innovative virtual-physical layouts.

4. **CHANGE THE GAME:** Use product digitisation to create deeper ongoing customer relationships.

   Move from one-time engagement to ongoing relationships by offering services like pay-per-use insurance and smart maintenance.

5. **INVEST IN THE BACKBONE:** Build data and analytics capabilities.

   Build the capability to integrate data from multiple sources and perform the right analytics.
EVOLUTION TO REVOLUTION
The auto industry today is witnessing several disruptions across the value chain.

The global automotive industry has witnessed mostly incremental “evolutionary” innovations in the course of its 130-year history. Disruptive changes in production techniques, business models and categories have been few and far between.

This traditional paradigm is rapidly changing with the advent of digital disruptions across the value chain. Digital engineering and 3D printing are shrinking product development timelines and costs, while smart sensors combined with complex computational capabilities are enabling advanced driver assistance systems (ADAS).

Digital channels are also redefining customer engagement. Customers research, buy and share their experiences online. They also remain connected after the purchase via their infotainment systems for content, to OEMs for real-time design feedback and to dealers for service alerts.

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<thead>
<tr>
<th>Internet of Things (IoT)</th>
<th>Automotive interconnectivity (IoT)</th>
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<td>R&amp;D/Design</td>
<td>Supply chain</td>
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<td>Production</td>
<td>Marketing/Sales</td>
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<td>Fin. Services</td>
<td>After-sales</td>
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<td>Vehicle usage/mobility</td>
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<th>Big Data</th>
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<td>Big data &amp; analytics</td>
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<th>Digital engineering</th>
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<td>Computerised production</td>
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<td>Smart sensors</td>
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<td>Preventative maintenance</td>
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<th>Virtualisation</th>
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<td>VR design</td>
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<th>3D printing/additive manufacturing</th>
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<td>3D (spare) parts printing</td>
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<th>Mobile apps</th>
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<tr>
<td>Next-Gen Automotive (ride-sharing, direct sales, rentals, etc.)</td>
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<tr>
<th>Digital engagement (includes omnichannel)</th>
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<td>Centralised digital platform</td>
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<td>Consumer engagement</td>
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<tr>
<th>Cybersecurity</th>
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<td>IP protection</td>
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<td>Autonomous car protection</td>
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<table>
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<th>Advanced robotics</th>
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<tr>
<td>Production efficiency</td>
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<table>
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<tr>
<th>Autonomous vehicles</th>
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<tbody>
<tr>
<td>Autonomous vehicles (affects all digital trends)</td>
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</table>

Current impact: 
Future impact: 

Source: Bain analysis
New kids on the block: Players from outside the traditional auto industry are upending the competitive landscape

One of the most profound implications of these disruptions is the rapid growth of new mobility players from outside the traditional automotive industry. For example, app-based cab aggregators have become an integral part of the mobility ecosystem and have attained large customer bases and multibillion dollar valuations in very short periods of time.

In its 7-year existence, Uber has reached a market capitalisation of about $70 billion while recent investments in 4-year old Didi Chuxing, a Chinese cab aggregator, indicate a valuation of $34 billion. Similarly, Quanergy, a producer of LiDAR sensors that enable deployment of autonomous driving systems, has reached a valuation of $1.6 billion in only four years. The growth of these players is transforming the traditional automotive landscape.

Notes: Valuations as of December 2016; 1 USD=67.8 INR; 1 EUR=1.05 USD; 1 USD=1,201 KRW
Source: Bain analysis
### AUTOMOTIVE PROFIT POOLS (2015-2025)

<table>
<thead>
<tr>
<th>Pool</th>
<th>Global 2015</th>
<th>Global 2025E</th>
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<tbody>
<tr>
<td>Component manufacturing and suppliers</td>
<td>$306B</td>
<td>$409B</td>
</tr>
<tr>
<td>-68%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-25%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leasing and financing services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-8%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vehicle manufacturing and sales</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-25%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parts, repair and maintenance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Used cars</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35%</td>
<td></td>
<td></td>
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<tr>
<td>Traditional taxi</td>
<td></td>
<td></td>
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<tr>
<td>New players</td>
<td></td>
<td></td>
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<tr>
<td>345%</td>
<td></td>
<td></td>
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<tr>
<td>Absolute change (2015-2025)</td>
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</table>

**Notes:** Revenues cannot be summed up to calculate consolidated European automotive revenues as some elements of value chain have overlapping revenues which are deliberately double counted; figures shown reflect light vehicles market only; L&FS is leasing and financing services; new players include data connectivity services, autonomous vehicles, commercial car sharing, new taxi (Uber, etc.); component mfg. and suppliers include supplier parts & components in new vehicles (e.g., driving assistance solutions), xEV battery packs, etc.

Sources: Profound; Euromonitor; LMC (2015); IHS Automotive; Polk; Worldbank; Kraftfahrtbundesamt (KBA); DAT; Bain analysis

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The next decade will witness a redistribution of profits as a result of these value chain shifts.

Over time, this shift in business models and sources of competitive advantage will cause the auto industry’s profit pools to shift.

According to Bain estimates, global profits from vehicle engineering, manufacturing and sales will be redistributed by about 8% through 2025 despite overall industry profit growth of about 35% in the same period. Industry profits are being redistributed to players like components and systems suppliers, which provide increasingly sophisticated solutions, as well as to nontraditional competitors like mobility platform providers.
DIGITAL INFLUENCE ON THE AUTO CUSTOMER JOURNEY
India is witnessing the rise of a large mobile-first digital population

The Indian consumer is evolving into a digitally savvy and largely mobile-first user. India has more than 400 million Internet users—more than the US and second only to China.

People mainly use their mobile devices to access the Internet, and this is no longer restricted to “metro” India. The number of rural mobile Internet users has grown by about a 130% compound annual growth rate (CAGR) over the past four years and it now accounts for nearly 30% of total mobile Internet users.

These trends will only accelerate. A recent NASSCOM (National Association of Software and Services Companies) study projected that India would have 730 million Internet users by 2020 and 75% of new Internet user growth would come from rural areas. These changes will have a profound effect on the automotive consumer’s journey.

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1 From Facebook, Inc. used with permission
Source: eMarketer, Internet and Mobile Association of India
Digital technologies are changing the manner in which customers engage with automotive OEMs across the purchase journey—from product discovery and consideration to research, purchase and post-purchase transactions.

According to Bain estimates, about 70% of total automobile sales—or $40 billion—will be digitally influenced by 2020. This represents over a doubling of digitally-influenced sales from today.

Notes: Digital influence percentage for 2016 is based on 'market representative' consumers n=736; digital influence percentage for 2020 is based on 'lead' consumers n=815
Source: Bain India Automobile Customer Survey, December 2016–January 2017 (n=1551)
Digital influence is set to increase significantly in the early part of purchase journey and post-purchase.

### Purchase Journey

- **Purchase trigger**
- **Discovery & consideration**
  - Digital influence on consideration: TODAY 46%, 2020 60%
- **Research**
  - Online research: TODAY 48%, 2020 70%
- **Dealer visit**
  - Decided brand and model before dealer visit: TODAY 49%, 2020 50%
- **Purchase**
  - Online purchase: TODAY <1%, 2020 <1%
  - Booking service online: TODAY 14%, 2020 40%
  - Buying spares/accessories online: TODAY 8%, 2020 30%

**Notes:** Digital influence percentage for 2016 is based on 'market representative' consumers n=736; digital influence percentage for 2020 is based on 'lead' consumers n=815. Source: Bain India Automobile Customer Survey, December 2016-January 2017 (n=1551)
Digital influence is currently highest in early stages of the purchase journey. Forty six percent of consumers say that digital channels influenced their consideration set while 48% used online research sources.

Of those digital sources, online search, OEM websites and social media have the biggest influence today. That picture is likely to change by 2020 as search and social media evolve into the dominant digital influencers, each influencing almost 40% of sales or about $23 billion in revenue.

**Social media and search will each influence ~40% of sales ($23 billion) by 2020, 3.3x more than today**

<table>
<thead>
<tr>
<th><strong>DIGITAL INFLUENCE ON CONSIDERATION</strong></th>
<th><strong>TODAY</strong></th>
<th><strong>2020</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommendation from family/friends</td>
<td>92%</td>
<td>91%</td>
</tr>
<tr>
<td>Auto dealer visit</td>
<td>61%</td>
<td>56%</td>
</tr>
<tr>
<td>Television ads</td>
<td>45%</td>
<td>52%</td>
</tr>
<tr>
<td>Test drive of relative’s/ friend’s car</td>
<td>48%</td>
<td>46%</td>
</tr>
<tr>
<td>Online search engines</td>
<td>22%</td>
<td>38%</td>
</tr>
<tr>
<td>Social media</td>
<td>20%</td>
<td>37%</td>
</tr>
<tr>
<td>Offline Ads (Radio, Print, OOH)</td>
<td>32%</td>
<td>34%</td>
</tr>
<tr>
<td>OEM website</td>
<td>20%</td>
<td>27%</td>
</tr>
<tr>
<td>Automotive shows</td>
<td>21%</td>
<td>21%</td>
</tr>
</tbody>
</table>

Notes: Digital influence percentage for 2016 is based on ‘market representative’ consumers n=736; digital influence percentage for 2020 is based on ‘lead’ consumers n=815
Source: Bain India Automobile Customer Survey, December 2016–January 2017 (n=1551)
Mobiles are the most important part of the device mix.

The digital advent will be largely mobile based: Almost 80% of online research is currently conducted on mobile phones. This is expected to further increase in the coming years as market factors cause a rise in the penetration of smartphones and mobile data.

DOMINANT DEVICE USAGE FOR ONLINE RESEARCH

Proportion of online research time spent on each device

- **MOBILE**: 80%
- **LAPTOP**: 11%
- **DESKTOP**: 7%
- **TABLET**: 2%

Notes: Respondents comprise of market-representative customers n=736
Source: Bain India Automobile Customer Survey, December 2016–January 2017 (n=1551)
Digital channels influenced the consideration set of 49% of consumers younger than 35 years compared with 40% of those older than 35. Similarly, 52% of consumers younger than 35 years conducted online research during their purchase journey compared with 42% of those over the age of 35 years.

As more young buyers enter the market in the coming years, we are likely to see an acceleration of digital influence. Brands targeted towards these younger consumer groups have the greatest imperative to increase the scale and scope of their digital marketing efforts.

**Notes:** Respondents comprise of ‘market representative’ consumers n=736
Source: Bain India Automobile Customer Survey, December 2016-January 2017 (n=1551)
Digital will force a rethink of dealer role: 50% of consumers have made brand and model choice before dealer visit.

The role of the dealer is also significantly changing as a result of shifts in digitally-influenced customer behaviour. Dealers have traditionally played an important role as an information source and an influencer in customers’ purchase decisions. This is changing: 72% of customers have selected a vehicle brand and 49% have chosen the vehicle model before stepping into a dealership. As a result, the dealer’s contribution is often limited to influencing the variant of the vehicle purchased.

### DECISIONS MADE PRIOR TO VISITING A DEALERSHIP

<table>
<thead>
<tr>
<th>Decision</th>
<th>Percentage of respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price point/budget</td>
<td>81%</td>
</tr>
<tr>
<td>Brand/manufacturer</td>
<td>72%</td>
</tr>
<tr>
<td>Model</td>
<td>49%</td>
</tr>
<tr>
<td>Variant</td>
<td>40%</td>
</tr>
</tbody>
</table>

Notes: Respondents comprise of market representative customers n=736
Source: Bain India Automobile Customer Survey, December 2016-January 2017 (n=1551)
Dealers have started to shift towards better digital engagement with their customers. However, they need to do more to enhance the sophistication and targeting of their digital outreach. For instance, more than 85% of the dealers surveyed use bulk SMS and database calling as a core part of their customer-targeting process. This ignores the depth and accuracy of targeting that is possible with digital tools.

**MOST POPULAR FORMS OF DEALER OUTREACH**

<table>
<thead>
<tr>
<th>Percentage of respondents</th>
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<tbody>
<tr>
<td><strong>Bulk SMS</strong></td>
</tr>
<tr>
<td>87%</td>
</tr>
<tr>
<td><strong>Print ads</strong></td>
</tr>
<tr>
<td>82%</td>
</tr>
<tr>
<td><strong>OOH</strong></td>
</tr>
<tr>
<td>68%</td>
</tr>
</tbody>
</table>

Source: Bain India dealer survey December 2016-January 2017 (n=87)
Post-purchase is the next digital frontier: We expect to see a 2-3x digital uptick over today. Indian consumers have started moving online for various post-purchase transactions such as booking a service (14% of consumers), paying for vehicle service (10%), buying spare parts and accessories (8%) and organising a pickup or tow (3%). While these numbers lag those of pre-purchase activities, it is clear that the digital shift has begun.

While the pre-purchase journey already shows a high digital influence, the next big shift will happen in post-purchase activities. Up to 42% of consumers indicate a willingness to move service booking online and about 28% indicate willingness to move service payment and purchase of accessories online.

Notes: Respondents comprise of ‘market representative’ consumers n=736
Source: Bain India Automobile Customer Survey, December 2016-January 2017 (n=1551)
The Bain Global Automotive Survey shows that Indian and Chinese consumers have a greater willingness to shift multiple parts of the purchase online compared with their peers in the US, the UK and Germany. This indicates the possibility of some digital “leapfrogging” in markets like India and China with more rapid digital movement than expected given other economic and social factors.

For instance, 66% of Indian automotive customers are willing to try devices that use virtual reality (VR) or augmented reality (AR) to test drive vehicles. That is significantly higher than in developed markets—21% in both the US and UK and 26% in Germany.

Source: Bain Global Automobile consumer survey 2017 (n=1,000 per country [UK, US, DE, CN, IN])
Despite these significant digital shifts, auto OEMs lag consumers spending just 10% to 11% of total ad budgets on digital media.

Ad spending on digital (2016, as percent of total ad spending)

Internet penetration (2016, as percent of total population)

Sources: Global Digital Ad Spending 2016, eMarketer; Euromonitor; Group M; Bain analysis
Customer Journey: Prerna, 26 year old tech-savvy working professional (recent promotion, fulfilling her dream of buying a car)

- **REACHES OUT TO HER SOCIAL NETWORK** for suggestions on car options
- **DISCOVERY AND RESEARCH**
  - Chats with close friends/family to understand their experiences
  - Compares multiple options through **ONLINE BLOGS, CUSTOMER REVIEWS, VIDEOS AND DISCUSSION FORUMS**
  - Shortlists 3-4 options and **GETS BROCHURES ON HER PHONE**
  - Clarifies queries with **OEM REPS ONLINE**
- **PURCHASE**
  - Locates **NEAREST DEALER ONLINE AND BOOKS A VISIT AND TEST DRIVE**

**OPPORTUNITIES**

- “Segment of one” targeting of prospective buyers by placement of relevant content in social media and other digital feeds
- Digital-enabled advocacy marketing to enable user-generated content to influence prospective buyers
- Identification of detractors through online behaviour and appropriate management
- One-stop app with features like live chat, dealer contacts and online payments for a seamless user experience
Completes **VEHICLE CONFIGURATION AT DEALER**

Purchase confirmed and **FINANCING APPROVED THROUGH PHONE BANKING**

DROPS OFF and PICKS UP vehicle from dealership after calling to confirm schedules with the dealer

Gets **SERVICE REMINDERS** from dealer through text messages and calls

SHOPS ONLINE for vehicle accessories

3D projections of model variants in the dealership to provide customers actual look and feel across variants while reducing inventory

Options for online vehicle configuration and customization

Mobile app that enables service reminders, scheduling and payment, online purchase of accessories and spares, and ongoing vehicle health monitoring

Online community of lifelong promoters connected through a common program
**Customer Journey: Mukesh, 50 year old businessman (seeking to upgrade to a high-end German luxury car)**

**DISCOVERY AND RESEARCH**

- **CALLS FRIENDS/FAMILY**, who own high-end cars for options
- **RELIES ON KIDS/YOUNGER FAMILY MEMBERS** for online research
- **SEND OFFICE HELP TO DEALERS** to collect info. brochures

**INTERACTION ACROSS CHANNEL**

- Also **INFLUENCED BY OUTDOOR AND PRINT ADVERTISING**
- Shortlists 2-3 options and **SEEKS OPINIONS FROM EXISTING USERS**
- **CALLS DEALERS AND BOOKS HOME TEST DRIVES**

**OPPORTUNITIES**

- Predictive placement of targeted content on digital feeds of both prospective buyer and his younger family members who are key decision influencers

- On-demand dealer visit at home or in office with VR-enabled visualization of different models and variants
Visits nearest dealer for **IN-PERSON INSPECTION OF CAR AND CONFIGURATION**

**POST PURCHASE**

- **RECEIVES CALLS PERIODICALLY** regarding service needs
- **CHECKS AVAILABILITY OF NEAREST SERVICE CENTER** and places service request
- **SEND OFFICE ASSISTANT TO SERVICE CENTER** with car for service and payment
- **NO CONTACT/RELATIONSHIP** with dealer until next car purchase

Checks and chooses available **FINANCING PLANS AT THE DEALER AND CONFIRMS PURCHASE**

App supplemented with offline channel to provide holistic maintenance, service and mobility solutions

On-demand pick up and delivery for vehicle servicing

Instant feedback to improve design process and send personalized messages on changes incorporated

Community of owners engaged with unique and luxury experiences
THE EVOLUTION OF MOBILITY MINDSETS
New mobility models like ride hailing have witnessed rapid growth.

The adoption of digital technologies is extending beyond the purchase process and in-car experience. Structural changes such as urban congestion combined with technology enablers are leading to the emergence of new types of mobility solutions and shifts in the mobility mindsets of customers.

Consider app-based cab aggregators like Ola and Uber. Virtually nonexistent in 2013, they collectively grew to account for an estimated 13 million weekly rides by the end of 2016.

App-based cab aggregators: India presence

<table>
<thead>
<tr>
<th>YEAR</th>
<th>WEEKLY RIDES</th>
<th>CITIES COVERED</th>
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<tbody>
<tr>
<td>2013</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>2014</td>
<td>62</td>
<td>62</td>
</tr>
<tr>
<td>2015</td>
<td>124</td>
<td>124</td>
</tr>
<tr>
<td>2016</td>
<td>131</td>
<td>131</td>
</tr>
</tbody>
</table>

Sources: Bain analysis
Among lead consumers, these new mobility models are overtaking own vehicle use for certain occasions.

### APP-BASED Taxis OVERTAKING OWN VEHICLE COMMUTE IN LEAD CONSUMERS

<table>
<thead>
<tr>
<th>Share of rides</th>
<th>Aug '15</th>
<th>Feb '16</th>
</tr>
</thead>
<tbody>
<tr>
<td>App-based taxi</td>
<td></td>
<td></td>
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<tr>
<td>Own vehicle</td>
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### HIGH FREQUENCY OF USE IN APP-BASED TAXI SERVICES

<table>
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<th>Frequency of use</th>
<th>Feb '16</th>
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<tbody>
<tr>
<td>Daily</td>
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<tr>
<td>3–4 times per week</td>
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<tr>
<td>Once per week</td>
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<tr>
<td>1–2 times per month</td>
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International examples indicate that India is likely to see increasing adoption of these models.

Global analogs indicate significant potential for further growth. Average annual rides per capita in India (adjusted for cities where these operators are present) was an estimated 3.3 in 2016. This is significantly lower than China’s 17.1.

India shares several structural causes of car-sharing with these markets: mega cities, traffic congestion and parking shortages. All these factors indicate that we are likely to witness a significant increase in car sharing there in the coming years.

### RIDE-HAILING PENETRATION: ANNUAL RIDES PER CAPITA* (2016)

<table>
<thead>
<tr>
<th>Country</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>17.1</td>
</tr>
<tr>
<td>India</td>
<td>3.3</td>
</tr>
</tbody>
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### DIDI’S SUCCESS IN CHINA PROVIDES A POSSIBLE INDICATOR OF THE FUTURE

- **2012**
  - *Kuaidi Dache* and *Didi Dache* were established as independent entities

- **2015**
  - The two entities merged to form *Didi Chuxing* (formerly known as Didi Kuaidi)
  - More than 150 million users spread across 300-plus cities

- **2016**
  - More than 300 million users spread across 400-plus cities in China
  - More than 11 million daily rides

Note: *Adjusted for population of cities where ride-hailing services such as Uber, Ola are available
Sources: Euromonitor; Bain analysis
Other models are also emerging to gradually shape a seamless multimodal ecosystem.

Multiple players have also emerged to meet specific needs in the increasingly multimodal mobility ecosystem. Bike taxi apps such as Rapido, Baxi, M-Taxi and, more recently, UberMOTO, offer last-mile transportation and delivery services. Other offerings help commuters choose the most efficient route across different modes of transportation and enable making easy reservations from a unified platform.

Zophop is one such start-up that does route optimisation across buses, passenger trains, metro rail, auto rickshaws and taxis with live ETA updates and smart ticketing. Cityflo and RedBus tap into the demand for convenience within the public transportation system by offering apps that enable bus pooling and seat reservation.

Sources: Company websites
Some of the new players in this mobility ecosystem could evolve into comprehensive mobility service providers.

Examples from other markets indicate that some of these models are likely to evolve into more comprehensive mobility solutions.

Go-Jek, a digital platform for aggregating informal motorcycle taxis in Indonesia (ojeks in Indonesian), started out as an on-demand provider of ojek driver services to commuters. Over time, the perception of ojeks evolved from mere bike taxis to providers of mobility solutions. This shift has resulted in Go-Jek branching into many transport-related areas, including food delivery, on-demand groceries and supplies, logistics, medicine delivery and more.
CRITICAL IMPERATIVES TO WIN: THE FIVE GEAR SHIFTS
Five critical imperatives—“gearshifts”—for Indian auto OEMs to thrive in this changing landscape

Follow the profit: Evolve business models to tap into shifting profit pools
- Explore partnerships and targeted investments both forward and backward in the value chain to participate in profitable future businesses

Follow the customer: Radically change investment mix to follow the customer online
- Increase proportion of digital marketing investments
- Invest disproportionately in discovery and consideration where brand choices are made

Build the dealership of the future: Differentiate the retail format
- Convert dealerships into brand experience centers by developing differentiated retail formats with innovative virtual physical layouts

Change the game: Use product digitisation to enable deeper ongoing customer relationships
- Use product digitisation to move from one-time engagement to deeper on-going customer relationships
- Offer value-added services like pay-per-use insurance and smart maintenance

Invest in the backbone: Build data and analytics capabilities
- Build capabilities to use multisource data and perform the right analytics
- Integrate the data layer and invest in a seamless view of external and internal data sources
The auto industry’s profit pools are being redistributed to new types of players that have distinct strengths which are usually far removed from the core automotive OEM capability of engineering. The greatest profit shifts are towards manufacturers of components and software solutions, as well as newer mobility services.

Globally, auto OEMs have started responding to these changes by investing in new business models – such as General Motors’ (GM’s) $500 million investment in point-to-point service provider Lyft. They are also experimenting with partnerships. For example, DriveNow is a car sharing joint venture between BMW and Sixt SE, with operations mainly in Europe today.

The business models for these new areas are still evolving in India. It is critical for automotive OEMs to be selective about the opportunities where they invest, create an internal culture of experimentation and focus on developing a credible business model in the medium to long term.

Sources: Company websites; Bain analysis
Follow the customer: Radically change investment mix to follow the customer online

Automotive OEMs in India currently allocate 10% to 11% of their total marketing budgets to digital media, compared with 37% in the US, 54% in China and 27% in Mexico.

Internet penetration in India is projected to increase from 29% in 2016 to 42% by 2020. Consumers are already shifting multiple parts of the purchase journey online. Automotive OEMs need to take decisive action to increase the allocation of marketing investments to digital channels.

Bain estimates indicate that companies should increase the proportion of their budget for digital marketing to about 25% to 30% of their total marketing spending by 2020. This will result in a digital marketing opportunity of $250 million to $300 million by 2020.

Sources: eMarketer; Euromonitor; Facebook internal research; Bain analysis
Follow the customer: Invest disproportionately in discovery and consideration using digital technologies

Discovery and consideration are important areas in which to focus digital spending. Most customers today have made a brand choice long before they visit a dealer. This highlights the importance of investing in the early part of the purchase journey.

Digital channels allow for accurate and predictive content targeting to influence consideration. Given the vast amounts of data that customers generate online, digital channels provide automotive OEMs the ability to target "segments of one" with the right marketing content relevant to the stage of the purchase process.

Source: Bain analysis
Case Study: Hyundai’s success with Rockar store in London

- Primarily digital showroom with only four cars on display; entire purchase process digital
- Showrooms located in high-street locations to increase customer access and convenience
- Shoppers can use tablets provided inside the store or use their own mobile devices to explore and search for information on cars
- Customers have the option to continue the process at home
- Store associates, called “Angels”, do not work for commission
- Share relevant info and educate customers

Sources: Company website; Bain analysis

Build the dealership of the future: Differentiate the offline brand experience.

Globally, OEMs are already running experiments with “exciting” retail formats such as creative stores in high-street locations run by product experts with interactive virtual-physical layouts. The idea is to convert a dealership from a simple outlet to a brand experience centre.

Many design options are possible: a combination of innovative store layouts, point-of-sale digital tools (handheld devices, tablets and VR/AR devices) and product touch-and-feel options such as colours, leather and metals.
Change the game: Use product digitisation to enable deeper post-purchase relationships

Connected automobiles are a powerful way to remain connected with customers post-purchase. It is increasingly possible for companies and consumers to communicate in real time, taking customer engagement to a higher different level.

We believe that India’s auto OEMs have traditionally been conservative in terms of providing access to their core technologies beyond Tier-1 suppliers and in encouraging partnerships beyond vendor relationships. A move towards providing more access to their platforms will allow them to better develop software and systems to connect to their customers.

Source: Bain analysis

INFOTAINMENT SERVICES
In-car delivery of music and television shows, downloadable applications, smartphone integration, voice and communication services and social media integration

SMART SERVICE & MAINTENANCE
Predictive and dynamic maintenance of vehicles, automated service reminders, vehicle health monitoring and pre-ordering parts online

LOCATION-BASED & EMERGENCY SERVICES
Navigation and traffic alerts, fleet operations, breakdown support, security service and facility searching (petrol pumps and restaurants)

USAGE-BASED SERVICES
Customised insurance programmes based on mileage and vehicle health, driving style support and fuel optimisation tips
Change the game: Go bold with a 360° digital approach to ensure a truly differentiating customer experience

Targeted marketing activates customer and incites interest
- Introduces customer to brand
- Invites customer to store or event
- Allows scheduling of test drive

Hassle-free, carefree premium experience
- Pickup and delivery service with courtesy car
- Exclusive offers

Constant connection to car
- Automated scheduling of maintenance services via telematics
- Online connectivity and in-vehicle info and entertainment

High-street store intrigues customers to enter
- Greeted by “Genius” providing guidance
- Customer experiences physical product and personalised configuration in virtual reality showrooms
- “Genius” directs customer to online channel

After sales experience
Seamless digital retail
Test drives/events
Connected car
Digital marketing & information

Brand experience

Source: Bain analysis
Invest in the backbone: Build data and analytics capabilities to enable the digital transformation

The power of analytics that use internal data from various sales and marketing touchpoints, along with external data available through social media and search, is well understood.

While it is critical to develop the business case and applications for analytics solutions, the true complexity is in the data layer. With the growing amount of data from disparate sources, it is critical to invest in a well-designed data and meta-data layer with clearly defined objectives of the system, along with the right technology solution. Doing so will help automotive OEMs fully harness the power of digital technologies.

Source: Bain analysis
About Bain & Company, India

Bain’s consulting practice in India has worked with clients in sectors including consumer products, retail, apparel, industrial goods and services, infrastructure, healthcare, technology, telecom, financial services, automotive, agriculture and private equity. Its project experience includes growth strategy, mergers and acquisitions/due diligence, post-merger integration, organisational redesign, full potential, market entry, performance improvement and change management. Bain’s robust analytic toolkit and fact-based approach enables it to deliver innovative and pragmatic strategies that create value.

Consulting Magazine has rated Bain & Company the best consulting firm to work for 11 times since 2003. In India, Bain has served clients since 1995 and formally opened its consulting office in 2006 in Gurugram near New Delhi, in 2009 in Mumbai and in 2015 in Bengaluru.

For more information, visit www.bain.com and www.bain.in.

About Facebook

Founded in 2004, Facebook’s mission is to give people the power to share and make the world more open and connected. Over 1.86 billion people globally and 180 million people in India use Facebook to connect and share the things they care about and to discover what’s going on in the world. Facebook for Business’ Marketing Tools help businesses find new customers and build lasting relationships with them. Whether you’re just getting started with Facebook for your business, or you’re ready to optimize your Facebook presence to meet specific goals, Facebook for Business is here to help.

Facebook IQ is a team of world-leading experts on data analysis and storytelling, who provide marketers a true understanding of people, and what drives them to stop, look, feel, share, do and buy. We then translate what these insights mean for brands.
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ACKNOWLEDGMENTS

A joint team from Facebook India and Bain & Company, India conducted this study. The key members of the Bain team are Srivatsan Rajan, partner; Joydeep Bhattacharya, partner; Yaquta Mandviwala, partner; Deepak Jain, partner; Aarthi Rao, Arup Mazumdar, Preeti Kumar, Gobin Chandra, Krithika Sriram, Siddhant Mittal, Siddha Jain, Ankur Sapra, Dushyant Khanduja and Shashank Jain. The Facebook India team members are Umang Bedi, Prasanjeet Dutta Baruah, Sudarshan Sarma, Balendu Shrivastava, Sunita G.R. and Aditi Nargundkar.

The team would like to thank all the companies, executives, employees and experts who generously shared their perspectives with us. We would also like to thank Bain & Company global partners for their expertise and input on various global case examples.

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