Connected Industry & Enterprise
Role of “IoT” and “AI”
The Internet of Things
From connecting devices to human value

01 Device connection
- IoT devices
- IoT connectivity
- Embedded intelligence

02 Data sensing
- Capture data
- Sensors and tags
- Storage

03 Communication
- Focus on access
- Networks, cloud, edge
- Data transport

04 Data analytics
- Big data analysis
- AI and cognitive analysis
- Analysis at the edge

05 Data value
- Analysis to action
- APIs and processes
- Actionable intelligence

06 Human value
- Smart applications
- Stakeholder benefits
- Tangible benefits
“IoT” the key to digital transformation.

IoT is expected to connect 28 billion devices to the Internet by 2020, compared with one billion users accessing the Net through personal computers or two billion users accessing it via phones and tablets.

India released its first IoT framework in October that aims to create a $15 billion market by 2020, impacting the growth of connected devices from the current 200 million to 2.7 billion by 2020.
“IoT” Making Life Smart
Smart Cities

IoT will be the backbone in building smart public infrastructure which would deliver clean water, dependable power, safe gas, and efficient public lighting.
One of the biggest contributions of IoT will be Industry automation. The internet connected devices will facilitate industry automation systems that will allow users to efficiently control appliances and machines over the internet.

Users will experience more control over data and will be able to efficiently covert it to insights as well while automating their tasks.
MANUFACTURING PLANT

Monitor production flow in near-real time to eliminate waste and unnecessary work in process inventory.

GLOBAL FACILITY INSIGHT

Manage equipment remotely, using temperature limits and other settings to conserve energy and reduce costs.

CUSTOMER SITE

Transmits operational information to the partner (e.g. OEM) and to field service engineers for remote process automation and optimization.

Provide cross-channel visibility into inventories to optimize supply and reduce shared costs in the value chain.

GLOBAL OPERATIONS

I can see my production line status and recommend adjustments to better manage operational cost.

R&D

I gain insight into usage patterns from multiple customers and track equipment deterioration, enabling me to reengineer products for better performance.

Field Service

I know when to deploy the right resources for predictive maintenance to minimize equipment failures and reduce service cost.

THIRD-PARTY LOGISTICS

Aggregate product data, customer sentiment, and other third-party syndicated data to identify and correct quality issues.
IoT devices such as sensors will be producing trillions of data points that will enable users to stream information with a different perspective wherein useful insights will be gathered from the data points.

Such insights will be used for devising strategies, averting risks, controlling and managing tasks efficiently thereby also helping organizations create new business models.
Capturing Intelligent Data.
80% of the data has a location element.
MapmyIndia Building

Location Intelligence with “IoT” & “AI”
Intouch IoT Technology Stack

Map Engine

Intouch Platform

Analytics Platform
From the past to the present of unparalleled map data

- Cartography
- GIS Digital Maps
- 3D Navigation Maps
- 360° Panoramic Outdoor Maps
- Live Maps
- ADAS HD Maps
- 360° Panoramic Indoor Maps
- 3D Laser Maps
- Advance Video Maps
- Real View Digital Twin
RealView Maps for Industry 4.0
MapmyIndia Indoor Mapping
MapmyIndia Map Engine
Aiding enterprises build Location Intelligent “IoT” Applications
MapmyIndia

Map Engine

- API Stack For Developers
- Standard Map Interface
- Integration With 3rd Party Applications
- Web Application Integration
- Custom Development For Mobile Platform
ADAS Maps
Map Data when applied dynamically can work as a sensors providing recognition and situation awareness to In vehicle system & Drivers.

Indoor Maps
Indoor Navigation on Mobile with photo-realistic view

HD Maps
High Definition Maps, plays an integral part to support connected ADAS and autonomous driving use context.
Integrated with Bhuvan Platform of ISRO (Indian Space Research Organization)
Intouch Fleet Management
Intouch
Smart Street Light
**IoT DEVICES AND SENSORS**

**Devices:**
- Wide variety of devices for people, Assets, vehicles monitoring
- Plug n Play devices for ease of use
- Deep installed devices for deeper integration with your assets
- Device supporting multiple technologies: NAVIC/GPS/GLONASS/LBS/Wifi
- Compatible with latest communication technologies like 4G/3G/LORA/BLE/Ethernet
- Deep vehicle integration using Digital/Analogue Inputs and CAN/OBD2
- Smart switches for remote control of assets

**Sensors:**
- Real time monitoring of different aspects/activities of one’s day to day life
- Efficient fuel monitoring and theft prevention
- Temperature monitoring for Cold Storage
- Depth measurement using ultrasonic Sensors
- Driver identification/authorization system (1-Wire/RFID)
- Driver behavior Scoring for monitoring driving patterns
- Environment monitoring sensors for CO2, O2, CO etc.
Using AI with “IoT” for Preventive Health Maintenance
Using AI with “IoT” for Preventive Health Maintenance

MapmyIndia Intouch platform provides diagnostic and maintenance, information so users can stay on top of their vehicle’s health.
Using AI with “IoT” for Preventive Health Maintenance

Analyze different parameters (Speed, Battery, RPM, Coolant temperature) using a single graph.

All the parameters can be compared at easily compared simultaneously.
Using AI with “IoT” for developing Real-time and predictive Traffic Flow data
## MapmyIndia At a Glance

<table>
<thead>
<tr>
<th>Founded</th>
<th>Employees</th>
<th>Consumer Base</th>
<th>Enterprise Clients</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>1000+</td>
<td>5,000,000+</td>
<td>5000+</td>
<td>ISO 9001-2008</td>
</tr>
</tbody>
</table>

- Head-Quartered in New Delhi
- Corporate offices in Mumbai and Bengaluru
- Presence in 90 cities across India
MapmyIndia’s Mission
To make our world better through Maps and Location technologies

MapmyIndia’s Vision
To create the most advanced, accurate & unparalleled map data for India
MapmyIndia At a Glance

- **IP ownership** for the largest and leading digital map and data product of India
- Adherence to GOI norms as per National map policy
- Products, Solutions and Services for Enterprises India & Global
- Products, Solutions and Services for Government Depts. Local, State & Central
- De-facto licensing partners to leading players in Automotive sector
- Internet of Things Solutions Provider
Connect with MapmyIndia for Smarter India

Made In India

Digital India

Made for India