

WEBINAR

TOP 20 TECHNOLOGIES FOR 2019

SESSION I

(ICT, ESC, AnD, and AnT)

 Thursday, Feb 7th | 11:00am to 12:00pm (EST)

 FEATURED SPEAKER

BALAJI SREEDHAR

AVP, ICT Practice

Consulting & Strategy at MarketsandMarkets™



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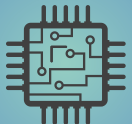
ENERGY & POWER



HEALTHCARE



INFORMATION & COMMUNICATION TECHNOLOGY



SEMICONDUCTOR & ELECTRONICS

MarketsandMarkets™ brings exclusive high-growth market intelligence generated by over 850 SMEs and analysts along with its proprietary revenue impact platform—[Knowledge Store](#)—to support decision making. Based on [Knowledge Store](#), and inputs from leading analysts, here are the top 20 technologies to watch out for. Know how they will impact the world in 2019.



TOP 20 TECHNOLOGIES FOR 2019

INTERNET OF THINGS 01



- Consumer IOT
- Industrial Cybersecurity

SELF-HEALING MATERIALS 02



- Mobile Devices
- General Industrial

BLOCKCHAIN 03



- Digital Identity
- Smart Contracts

SOFTWARE DEFINED NETWORK AND NETWORK FUNCTION VIRTUALIZATION 04



- Network Security
- Load Balancing

ARTIFICIAL INTELLIGENCE 05



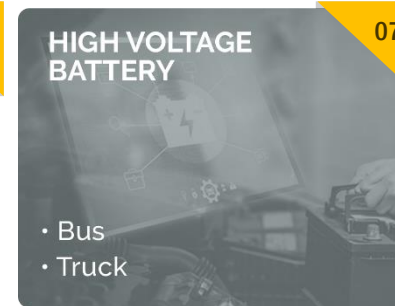
- AI in Manufacturing
- AI in Healthcare

AUGMENTED REALITY 06



- HMD
- HUD

HIGH VOLTAGE BATTERY 07



- Bus
- Truck

ENERGY AS A SERVICE 08



- Commercial
- Industrial

BIOMARKERS 09



- Liquid Biopsy
- Companion Diagnostics

ELECTRIC VEHICLE 10



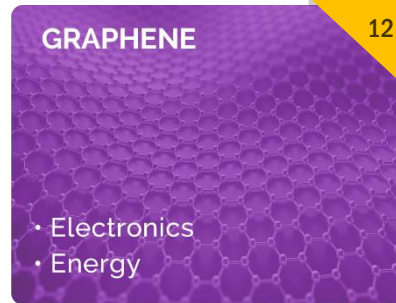
- Fuel Cell Vehicle
- Electric Commercial Vehicle

LOCATION OF THINGS 11



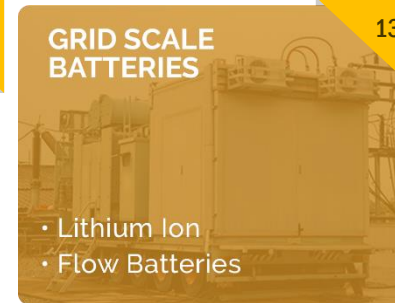
- IoT Location Intelligence
- Location Based Customer Engagement & Advertising

GRAPHENE 12



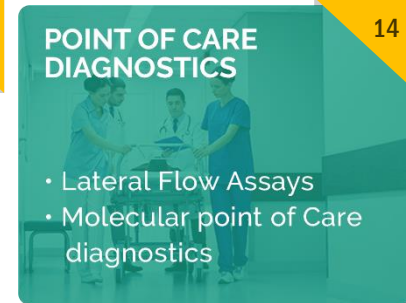
- Electronics
- Energy

GRID SCALE BATTERIES 13



- Lithium Ion
- Flow Batteries

POINT OF CARE DIAGNOSTICS 14



- Lateral Flow Assays
- Molecular point of Care diagnostics

3D PRINTING METALS 15



- Aerospace & Defense
- Automotive

GENOMICS 16



- Microbiome Sequencing Services
- NGS-based RNA-seq

MICROIRRIGATION SYSTEMS 17



- Orchard Crops & Vineyards
- Plantation Crops

AVIATION ANALYTICS 18



- Fleet Management
- Route Planning

AUTONOMOUS DRONE 19



- Passenger Transport & Air Taxi
- Last mile cargo Delivery

FIELD MONITORING TECHNOLOGY 20



- Precision Farming
- Smart Greenhouse



LONG AGO, PEOPLE DANCED AT CONCERTS,
NOW THEY VIDEO/CLICK/SHARE/TWEET/FACEBOOK LIVE ...



1990



2019

THINK FUTURE, NOT NOW



NEW TECHNOLOGIES + NEW USE CASES = FUTURE REVENUE





TOP 20 TECHNOLOGIES FOR 2019

SESSION I

BLOCKCHAIN

- Digital Identity
- Smart Contracts

LOCATION OF THINGS

- IoT Location Intelligence
- Location Based Customer Engagement & Advertising

ARTIFICIAL INTELLIGENCE

- AI in Manufacturing
- AI in Healthcare

AUGMENTED REALITY

- HMD
- HUD

ELECTRIC VEHICLE

- Fuel Cell Vehicle
- Electric Commercial Vehicle

AVIATION ANALYTICS

- Fleet Management
- Route Planning

AUTONOMOUS DRONE

- Passenger Transport & Air Taxi
- Last mile cargo Delivery



BLOCKCHAIN

Top 2 Applications –

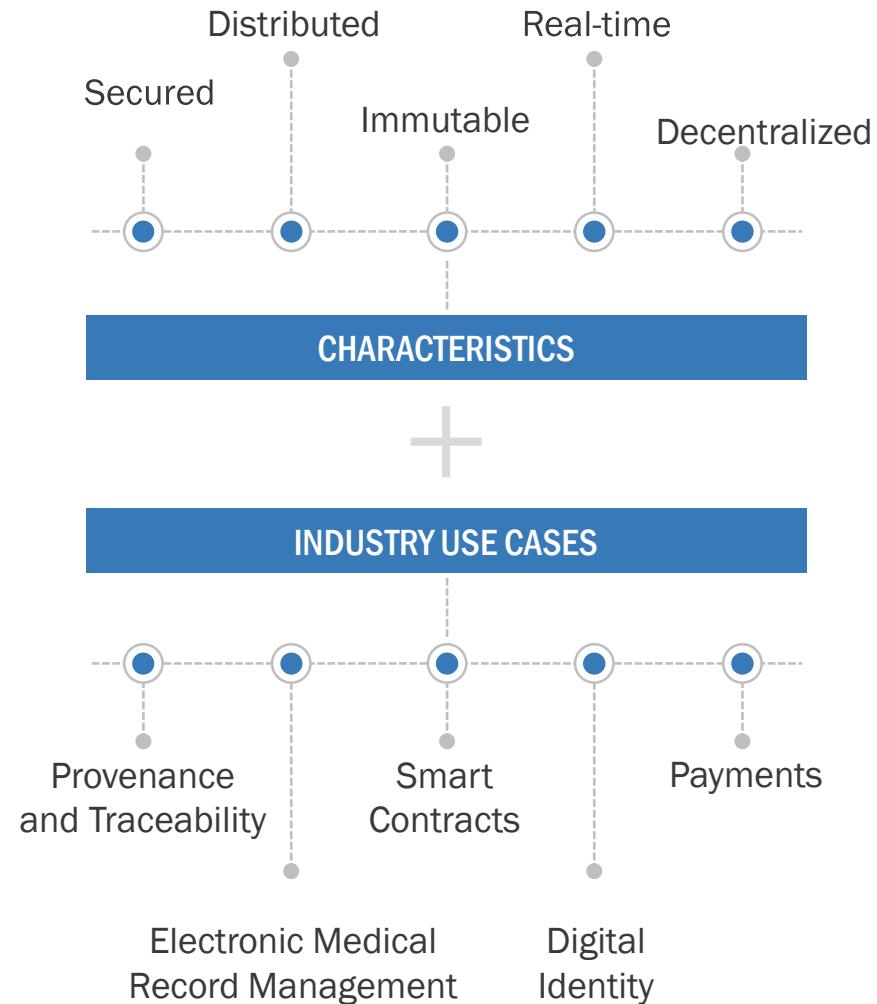
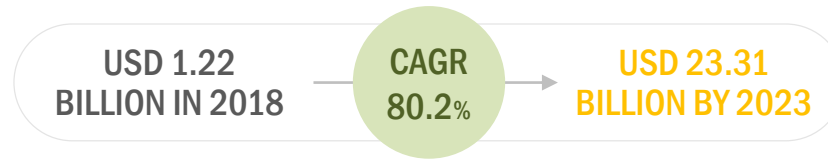
- Digital Identity
- Smart Contracts



BLOCKCHAIN

BLOCKCHAIN TECHNOLOGY IMPLEMENTATION

- Customer Digital Identities
- The US State of Delaware
- Connecting Care Platform
- Food Traceability And Safety
- Retail Payment Settlements using Vein Pattern
- Government of Telangana, India



FUTURE POTENTIAL

- BFSI - the largest consumer of blockchain technology, with a 36% share in 2018
- Digital identity application to grow at the highest CAGR of 87% from 2018 to 2023
- Smart contracts application accounted for largest share of 18% in 2018
- Solving next-generation data management problems via distributed data models
- Emergence of cross-border, blockchain-based self-sovereign identity standards
- Revolutionizing global trade and exchange by leveraging blockchain technology



LOCATION OF THINGS

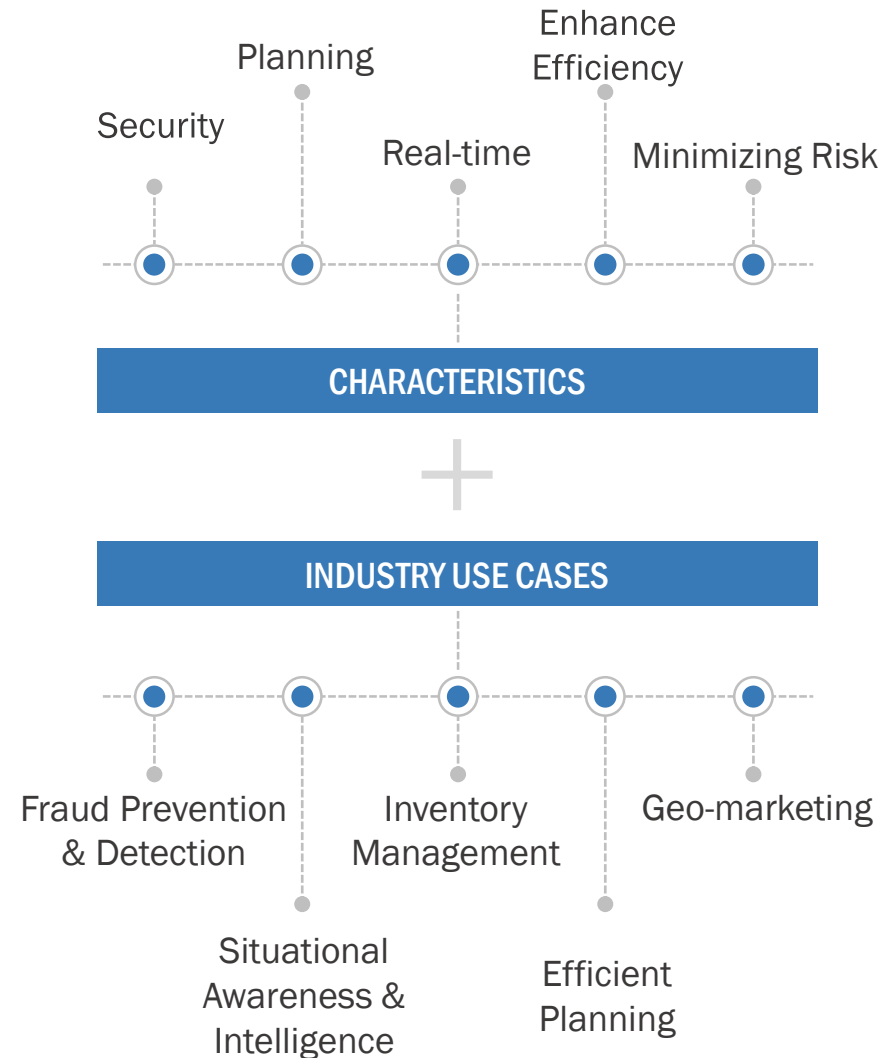
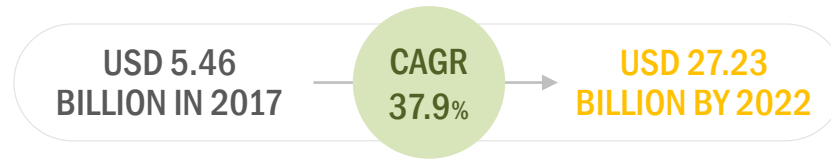
Top 2 Applications –

- IoT Location Intelligence
- Location-based Customer Engagement & Advertising

LOCATION OF THINGS (LoT)

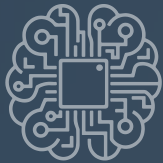
LoT TECHNOLOGY IMPLEMENTATION

- Credit Card Fraud
- Austin Police Department
- Weka Smart Fridge
- United Private Car
- Electrolux



FUTURE POTENTIAL

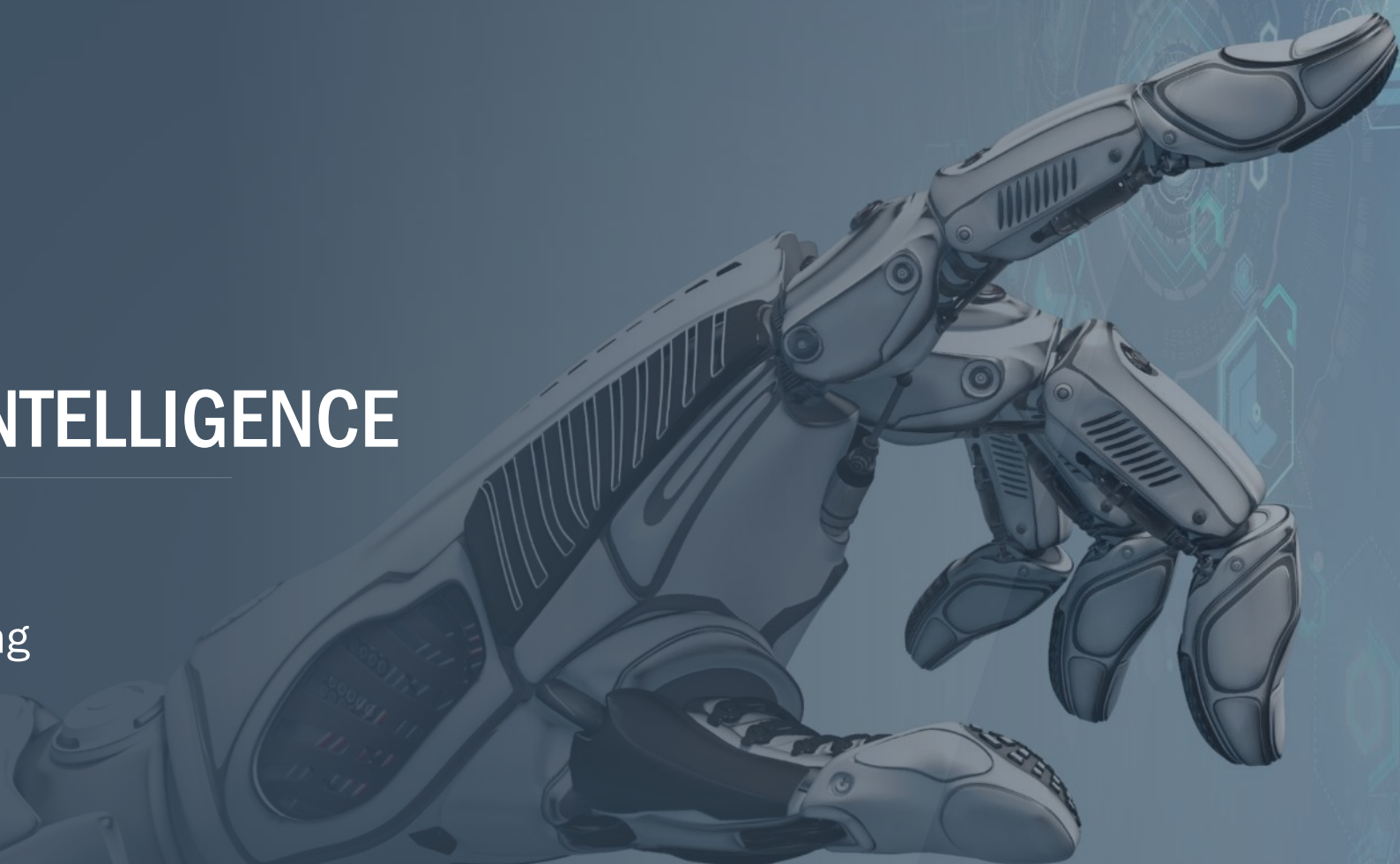
- High potential in smart cities application; will be at the core of industrial revolution
- Self-updating and self-healing maps
- Retail expected to adopt the technology at highest pace: CAGR of 43%
- Workforce management for increased productivity
- Customer satisfaction and engagement solutions through mobile applications
- Social media analytics for better customer satisfaction

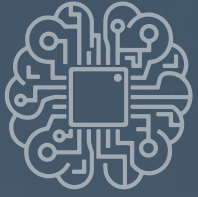


ARTIFICIAL INTELLIGENCE

Top 2 Applications –

- AI in Manufacturing
- AI in Healthcare

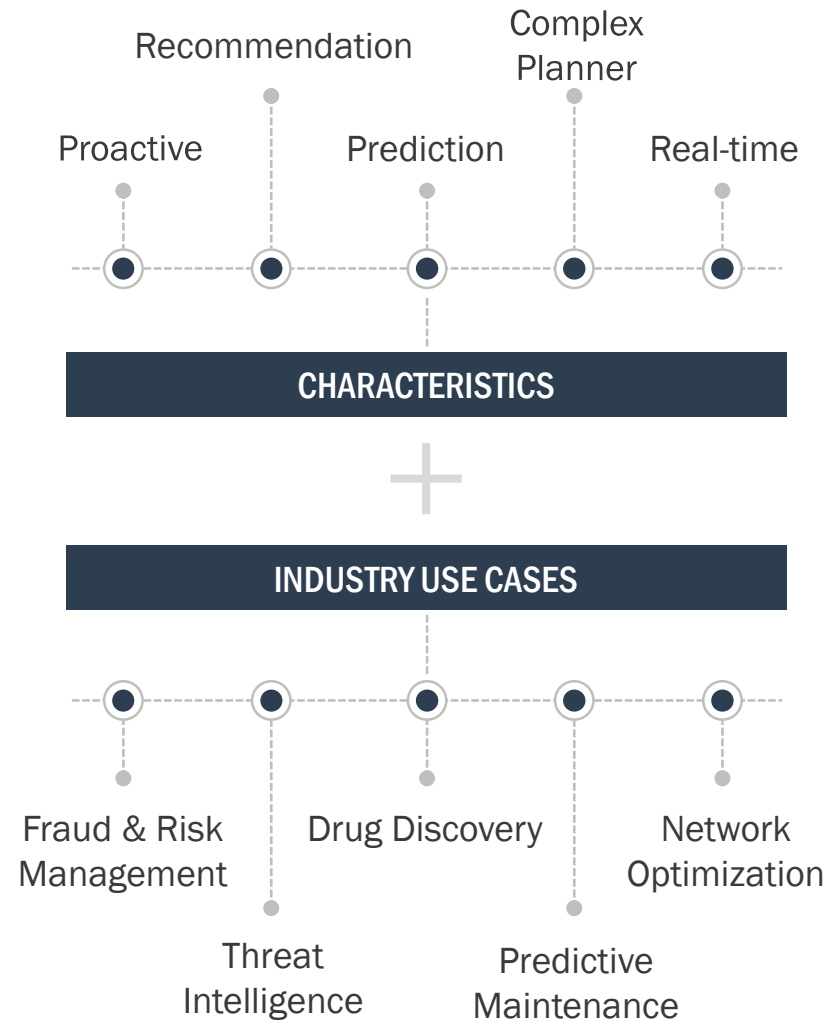
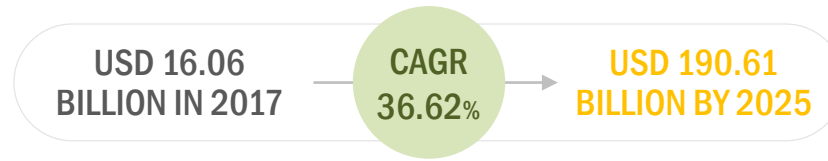




ARTIFICIAL INTELLIGENCE (AI)

AI IMPLEMENTATION

- Banco Bilbao Vizcaya Argentina (BBVA) Bank
- New York Police Department
- Roche
- Airtel and SK Telecom
- Flipkart



FUTURE POTENTIAL

- Obtaining critical business insights from huge volume of data generated from various business processes
- Enabling enterprises to become proactive and future-ready against cyber threats
- Shifting of data processing and decision-making capabilities from cloud to edge devices
- Amalgamating AI technologies in creative tasks to help humans innovate ideas



AUGMENTED REALITY

Top 2 Applications –

- HMD
- HUD

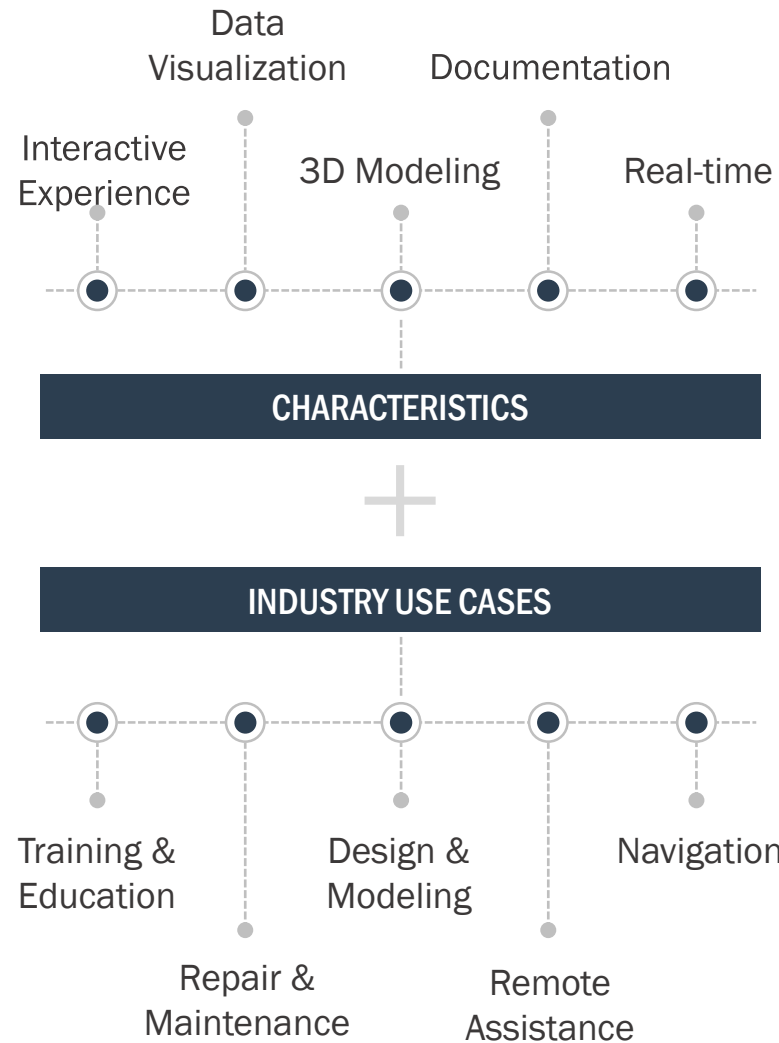
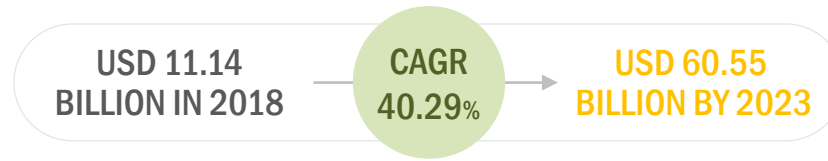




AUGMENTED REALITY (AR)

AR IMPLEMENTATION

- National Geographic Channel
- Boeing
- Adidas
- Kellogg's
- GE Aviation



FUTURE POTENTIAL

- Digital marketing using AR tools such as HMDs, HUDs, and AR apps to ensure bigger market share
- Improved navigation with geo-location and real-time display of enhanced maps
- AR systems to help magnify educational resources and transform books or recreate events into 3D images superimposed in real-time
- Use of visualization in furniture purchasing, museums, conferences, concerts, and other applications to drastically enhance user experience



ELECTRIC VEHICLES

Top 2 Applications –

- Fuel Cell Vehicles
- Electric Commercial Vehicles



ELECTRIC VEHICLES (EV)

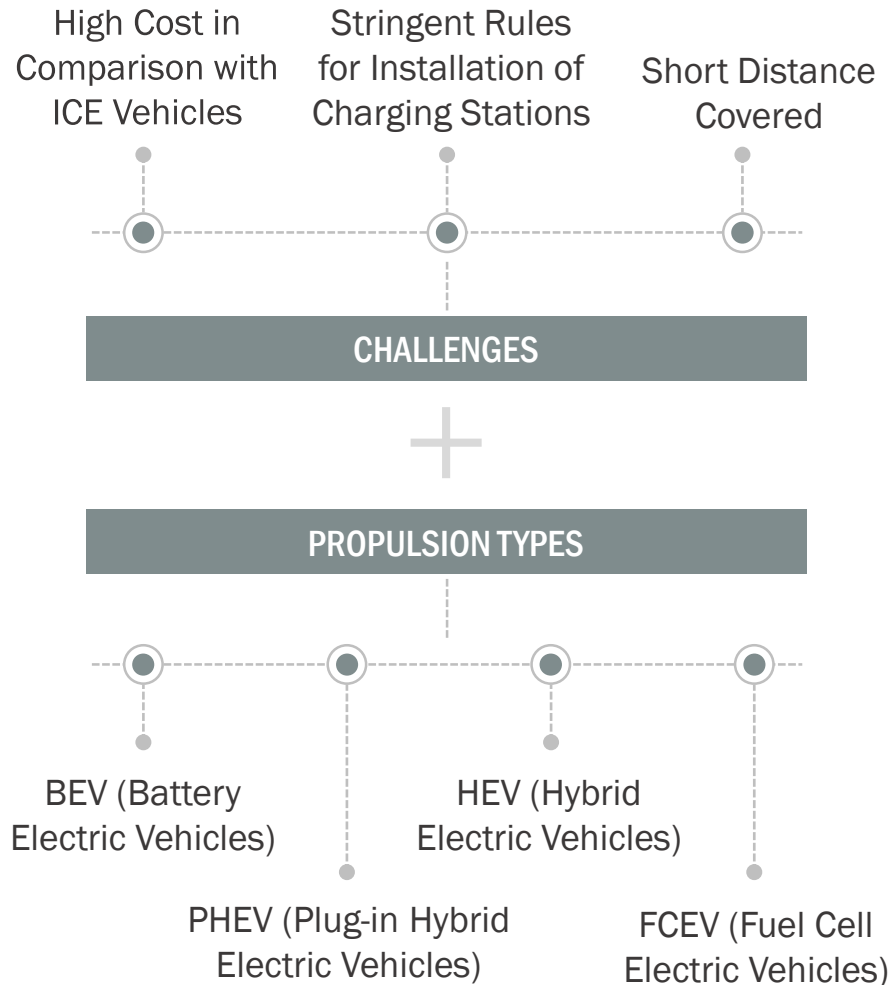
EV IMPLEMENTATION

- In 2018, global EV sales rose to 1.8 million units; China contributed more than 1 million units to this, registering a Y-o-Y growth of 80%.
- In 2018, Shenzhen became the world's only city to have 100% electric buses.
- Around 75% of all publicly available commercial charging stations for EVs in Europe are present in Germany, France, Netherlands, and the UK.
- In 2018, Jaguar launched I-Pace, its first all-electric five-seater sports car.

1.50 MILLION
UNITS IN 2018

CAGR
32.57%

10.79 MILLION
UNITS BY 2025



FUTURE POTENTIAL

- In 2018, China announced plans to deploy 12,000 battery swapping stations and 4.8 million charging points by 2020.
- Shanghai City (China) announced plans to build 0.2 million charging points by 2020.
- China is also targeting 2 million EV sales per annum by 2020 and 7 million sales per annum by 2025.
- Within the EU, France is targeting 2 million EV on road by 2020.
- India is targeting 30% EV penetration by 2030.
- Tesla's all-electric battery-powered Class 8 semi-trailer truck, **Tesla Semi**, unveiled in November 2017, is planned for production in 2019.



AVIATION ANALYTICS

Top 2 Applications –

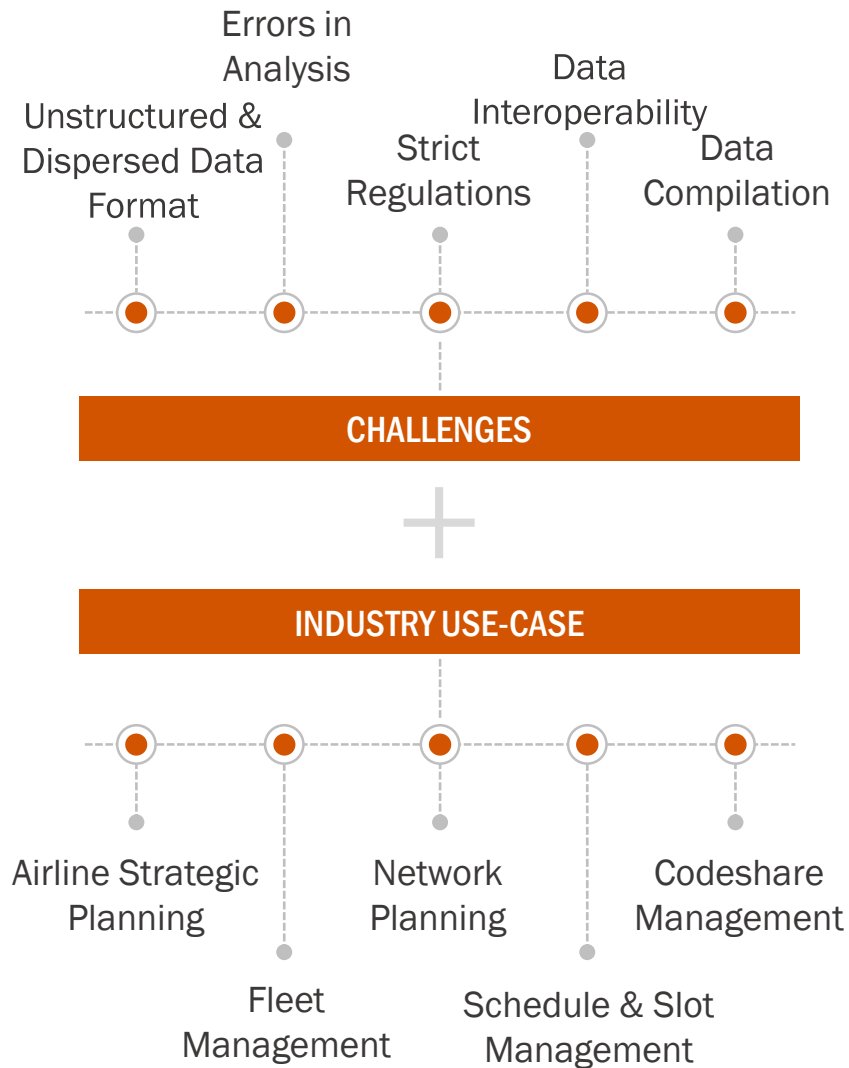
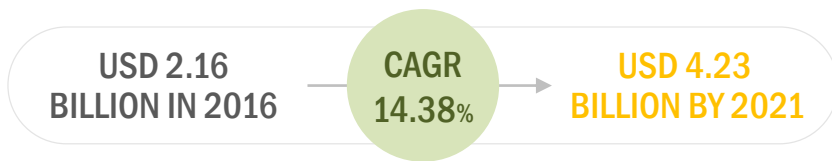
- Fleet Management
- Route Planning



AVIATION ANALYTICS (AA)

AA IMPLEMENTATION

- SINGAPORE AIRLINES – For network & schedule planning
- CITYJET (IRELAND) – For competition analysis, passenger traffic forecasting model
- ROYAL JORDANIAN AIRLINE – For providing proactive and accurate information to network planners about which markets to serve and the right markets in which to codeshare

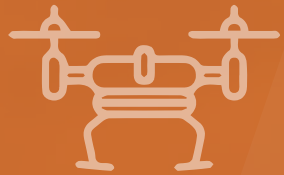


FUTURE POTENTIAL

- Automated network planning - combination of airline schedules, competitive analysis, market analysis, passenger preferences, fares, and operating costs, other parameters to evaluate future market demand
- Cabin-level market forecasting (economy class, premium class seat demand) to avoid forecast inaccuracies and to enable informed fleet re-configuration decisions to reduce revenue spill

AVIATION ANALYTICS + MACHINE LEARNING

- Customer destination suggestions
- Deciding marketing budgets
- New route pricing
- Managing seasonal demand variations



AUTONOMOUS DRONES

Top 2 Applications –

- Passenger Transport & Air Taxis
- Last Mile Cargo Delivery





AUTONOMOUS DRONES (AD)

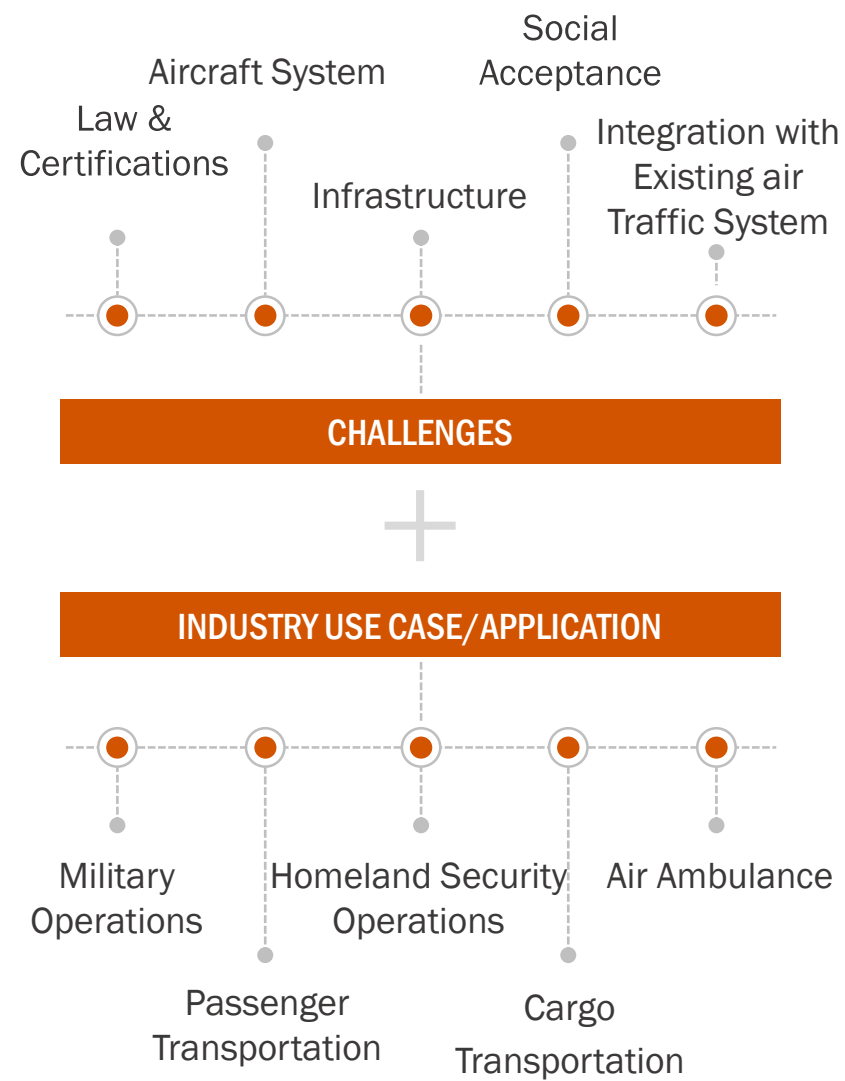
AD IMPLEMENTATION

A) PASSENGER DRONES/AIR TAXIS

- Uber
- Bell
- Boeing
- Airbus
- Lilium

B) LAST MILE CARGO DELIVERY

- Airbus
- Boeing
- Uber
- Amazon
- UPS



FUTURE POTENTIAL

- Military operations - In life-threatening military missions, for cargo delivery
- Real-time inspection & monitoring - Infrastructure inspection, field surveying, scientific data collection, and security monitoring
- Mining and agriculture - Open-pit mining, mapping, and precision agriculture

LIDAR + ARTIFICIAL INTELLIGENCE

- Development of standard drone communication procedure for air safety
- Obstacle avoidance
- Air traffic management



YOU'RE INVITED TO AN EXCLUSIVE WEBINAR ON
TOP 20 TECHNOLOGIES FOR 2019

SESSION II
(CnM, HC, EnP, and FnA)

 Wednesday, Feb 13th | 11:00am to 12:00pm (EST)

 **FEATURED SPEAKER**

AASHISH MEHRA
*Sr. Vice-President,
Strategic Accounts & Leader*



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THANK YOU !



QUESTIONS?



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