

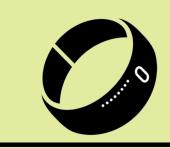
A GUIDE to the IoT LANDSCAPE -



www.altizon.com

loT Landscape

Wearables









Fitness

Bands

Smart Watches

Glasses **Smart**



Connected Cars









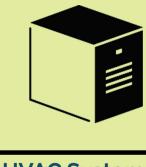


Connected Homes



video surveillance)







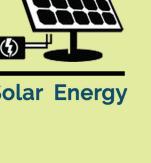












Connected Cities









Transportation









Industrial IoT - Manufacturing, Oil & Gas

Real Time Analytics | Factory Automation | Robotics | Supply Chain Efficiency | Customized **Solutions** for Asset

Manufacturing:





meters-energy



fuel





for

home





smart

Collection

grid

consumption

Agriculture

Remote

Water

Smart



Patient



Monitoring

1. The data that are used today are mostly for

with

Management



smartphone



body

sensors

as

Current Challenges/Limitations/Scenario

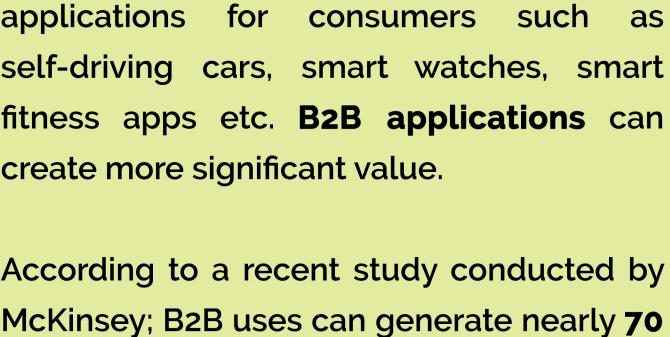
smart

anomaly detection and control, not optimization and prediction, which provide the greatest value. Organizations that lead in analytics outperform those that are just beginning to

adopt analytics by 3times.



applications self-driving cars, smart watches, smart fitness apps etc. **B2B applications** can create more significant value. According to a recent study conducted by



2. Though there is much hype around IoT

percent of potential value enabled by IoT.

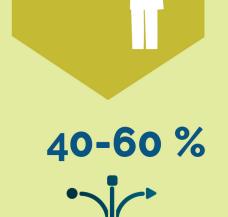
Increased scope in developing economies vs developed economies due to large scale retrofit processes involved in developed economies. Nearly 40 percent of value could be

3. Brownfield vs Greenfield Innovation:

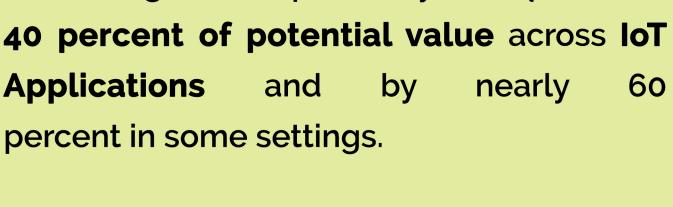


4. Interoperability between IoT systems is critically important to capturing maximum

generated in developing economies.



value. On average, Interoperability is required for



Drivers of Global Adoption

Particularly, the cost of sensors, processing power, and bandwidth to connect devices has dropped low enough to spur widespread deployment

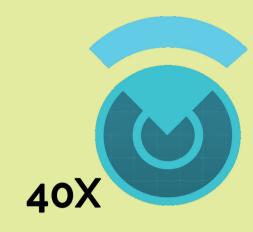
Enablers of IoT

Cheap Sensors

Sensor **prices** have dropped to an average **60 cents from \$1.30** in the past 10 years.



Cheap Bandwidth



The **cost of bandwidth** has also declined precipitously, by a factor of **nearly 40X** over the past 10 years.

Cheap Processing

Low Processing Power: The processing costs have declined by nearly 60X over the past 10 years, enabling more devices to be not just connected, but smart enough to know what to do with all the new data they are generating or receiving.



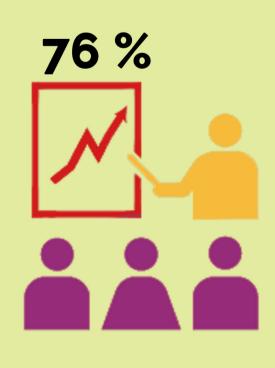
?

Ubiquitous Wireless Coverage



Big Data

Big Data Analytics as a **Key Enabler**: A 2014 research project by IDG estimated that the amount of data managed by organizations will increase **76% within the next 12-18 months**. For e.g. IoT ready enterprises will be able to collect and baseline more than **25 billion** performance metrics for real time analytics.



IPv6



IPv6 will be **driving IoT development**, since with IPv6, it's possible to use a global network to develop one's own network of smart things and interconnect them with the rest of the world.

IoT Promise & Potential:

Who needs these services?

Enterprise Side

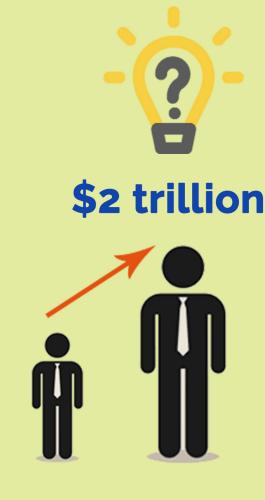
IoT Value Proposition

Revenue Streams

Alternative Revenue **Streams** IoT will be a key driver for incremental & alternative revenue streams based on new products and services Data: Industrial IoT opportunity could amount to \$2 trillion by 2020. Remote Monitoring enables E.g. anything-as-a-service.

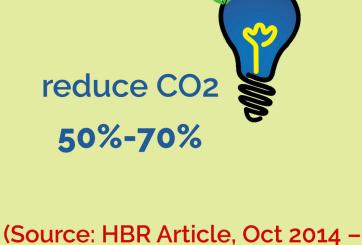
(a) Enable New Business Models and

(b) Higher



Transform Business Processes





Maintenance and **Better Asset Utilization** Smart Lightings: According to The

Productivity, Predictive

Climate Group, non-profit a organization dedicated to reducing carbon use, combining LED lamps in streetlights with smart controls can reduce CO2 emissions by 50%-70%.

Higher Customer Satisfaction and

The Sectors Where The Internet Of Things Really Matters)

Increase Cost savings (c) **Data**: Analysts forecast that there will

devices globally by 2020, with the potential to create value from cost reduction and expenditure on new services to the tune of 4.5 trillion USD (Source: GSMA, 2014 Report - Understanding the Internet of Things (IoT))



B2B2C Services

The IoT opens up many vendors to the

consumer market, providing Business

to Business to Consumer (B2B2C)

services to connect and run homes and

automobiles — as such

all the

27 billion

Consumer Side

(a) New Business to Business to Consumer (B2B2C) services

IoT Value Proposition



electronic devices will capability networking making products/services smart and connected. Smart Home: IoT can help reduce home energy consumption by over 40% various applications: in Lightning Control, Ventilation Control,

Room Heating Control, Shutter Control

and Heating Automation.

(b) Transforming the Product Offerings

through Servitization - IoT will drive the gradual shift from transactional

relationships (between the enterprises

customers) to servitization (defined as a business model shift in which products evolve to integrated "bundles" of products and services). Thus IoT will force the private and public sectors to provide flexible Consumer Model aligned with User Experience. Rolls-Royce's that plant

(Source: Goldman Sachs Global Investment Research)

Consumer Model





in point is an example of **TotalCare** guarantees performance by taking responsibility for it. Rolls-Royce doesn't simply sell an airplane engine instead they sell the hours they keep the engine up and This not only increases running. intimacy and service customer revenues - it has identified market opportunities. In turn, services such as **TotalCare** have supported the creation of new low-cost airlines."

ABOUT ALTIZON

Recognized as **Gartner 2015 Cool Vendor**, Altizon is the **world's first Industrial Internet Platform** company focussed on making Enterprises Internet of Things(IoT) ready.

Our flagship product - the **Datonis IoT Platform**, helps you build your IoT product in weeks by providing device connectivity kits, a device management layer, a highly-scalable, real-time, big-data analytics engine and alerting and monitoring services.

Datonis easily integrates with your existing IT systems to provide a seamless transition between your IoT devices and your IT infrastructure management tools. Datonis is available both in a SaaS as well as in a Hosted model.

We help you build your smart connected devices with the

- Most Comprehensive Support for Industry 4.0
- Industry leading Stream Analytics and Event Rule Engines
- Best DIY Enterprise Dashboards
- · Go Mobile. Go Cloud solutions
- Enterprise grade Scalability and Security

CONNECT EVERYTHING

Connect Seamlessly
Collect & Transfer Data Securely
Manage Devices

PROCESS EVERYTHING

Define structure

Get insights

Generate alerts & notifications

Store data securely

OWN YOUR DATA

Create visualizations

Build applications using API'S

LOB Integration

DEPLOY ANYWHERE

SaaS model
Cloud hosting & support
Private cloud/On-premise

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