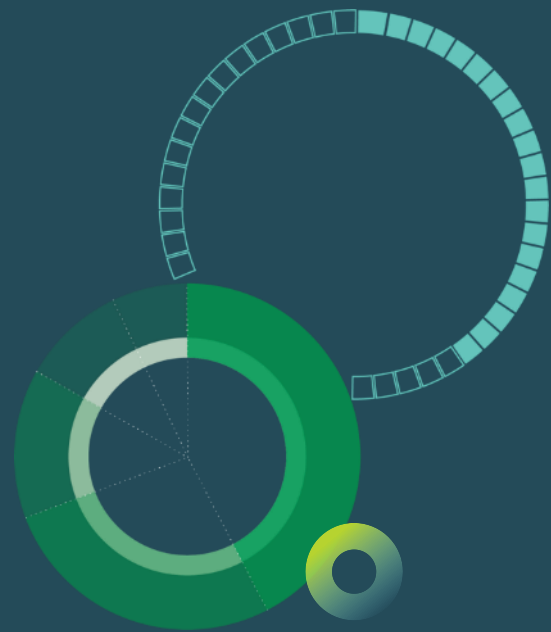


Moving from connections to insights: maximizing IoT growth with Data Analytics

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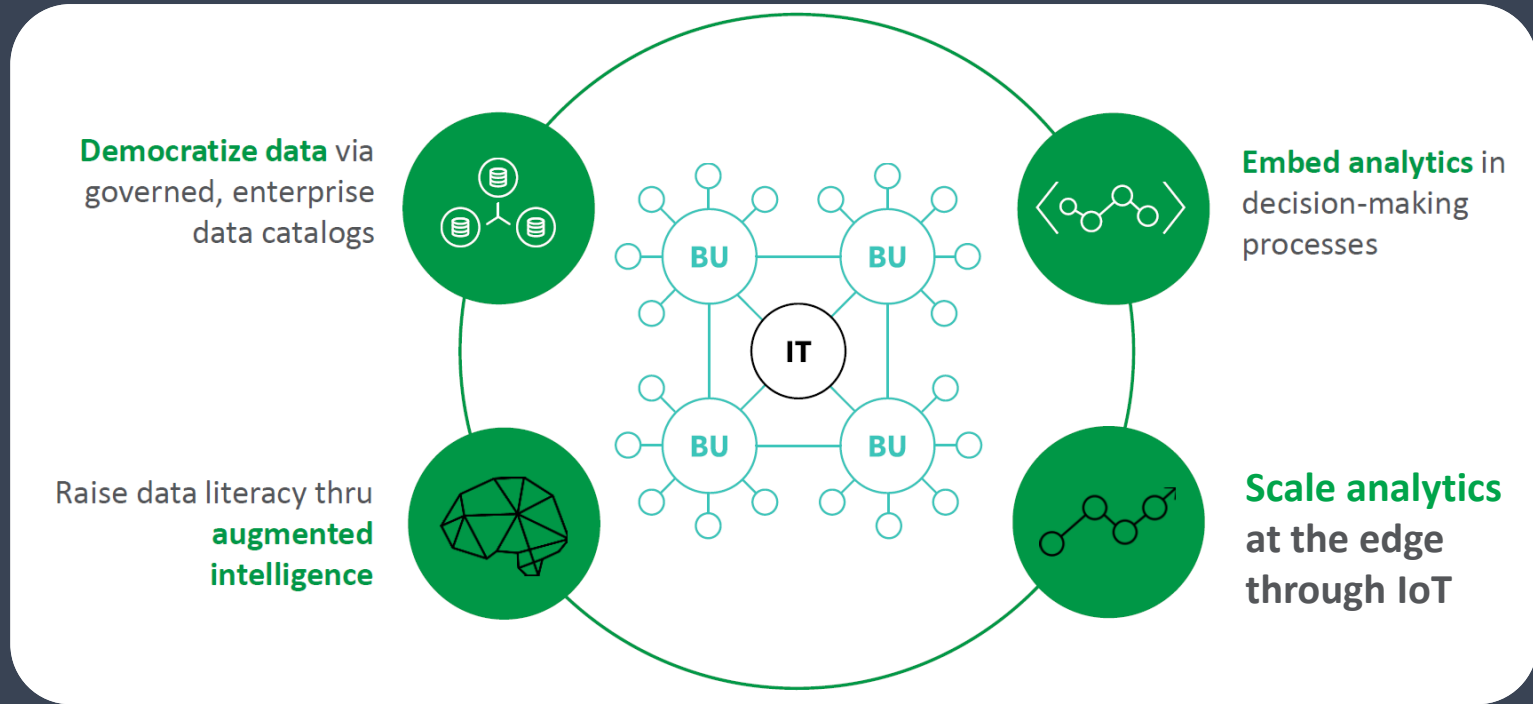


IoT Platforms

The Role of Analytics

- **Device management**
- **Integration**
- **Data management**
- **Analytics** — processing enterprise and contextual data streams, to provide insights into asset state and usage, tracking patterns. Rule engines, event stream processing, data visualization and machine learning
- **Application enablement and management**
- **Security**

3rd-Generation Business Intelligence



IoT Analytics – 4 Use Cases

IoT is bringing many benefits to various industries. A growing number of traditional product-based offerings are being refashioned as services and many industries are improving their strategic planning capabilities while improving the overall satisfaction of their customers. Data from connected devices can dramatically improve the product design process.

Fleet Management/Telemetry – the goal is to minimize the risks associated with vehicle investment, improving efficiency and productivity while reducing overall transportation and staff costs.

Smart metering – It allows reduction on operation expenses by automation of manual tasks, improved customer satisfaction with better segmentation, tracking of renewable power

Predictive maintenance - The cornerstone of smart factories aimed at failure prevention, automatically creating maintenance timelines, improving strategic planning capabilities and capitalizing cost savings by leveraging sensors, cameras and analytics

Assets/individuals tracking and monitoring - Goal is to easily locate and monitor key assets, including along the supply chain (e.g. raw materials, final products and containers) to optimize logistics, maintain inventory levels, prevent quality issues. Additionally, being able to track individual behaviours thru wearable devices. GPS, smartphones etc.

Fleet Management/Telemetry – the goal is to minimize the risks associated with vehicle investment, improving efficiency and productivity while reducing overall transportation and staff costs.



BMW Group

- Analysis of machine generated data in several areas in automotive division
- Connected car data, paint shop robotics and diagnostic readouts in service
- Creation and tuning of algorithms and insights inclusion into the business processes

Montrans

- Real time Transport Monitoring & Fleet Management application
- Provides full insights of vehicle status, route deviation, costs, alarms
- Includes sensors and telematics, tracking:



- Tire pressure
- Fuel consumption
- On-board camera
- GPS position
- Engine temperature
- Operational functions



Smart metering – It allows reduction on operation expenses by automation of manual tasks, improved customer satisfaction with better segmentation, tracking of renewable power



- Bticino is a leading Italian manufacturer of electrical wiring systems and home automation
- Electricity and gas consumption data are collected for every equipment across 9 production locations in Italy via connected smart meters, and analyzed together with production volume and production schedules, along with outside temperature
- The Energy Dashboard analysis have enabled savings of 3% annually



- Centrica is UK's leading energy services business
- Centrica have installed 6M smart meters with every smart meter generating 3 million energy usage data points per year via IoT connectivity
- Customers can see how much electricity and gas is being used and real time cost
- Customers can now receive free electricity with Home Energy Free Time and personalised tariffs



Predictive maintenance - The cornerstone of smart factories aimed at failure prevention, automatically creating maintenance timelines, improving strategic planning capabilities and capitalizing cost savings by leveraging sensors, cameras and analytics

Trenitalia

- Dynamic Maintenance Management System (DMMS), a predictive maintenance application integrating IoT and big data
- Between 1000 and 5000 measures per second for each train are tracked and sent in real time to a central warehouse for monitoring and data discovery
- Prevents failures, reduce costs for service interruption and increase customer satisfaction
- Intergrated supply chain to support expected maintenance needs



Candy Hoover Group

- Consumer IoT with connected appliance (Simply-Fi network connecting ovens, washing machines, ...)
- Smartphone interaction to get actual status, launch functions and schedule automated operations
- Aggregates crucial information centrally about product usage to design new products and services
- Provides alarms and error codes to customer service to optimize technical assistance and maintenance

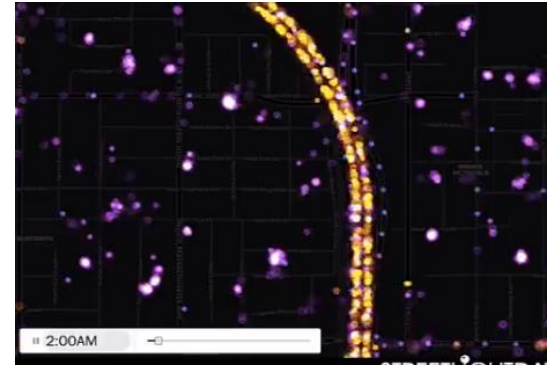


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STREETLIGHT DATA
Big Data for Mobility

- SaaS Application for transportation insights in US & Canada
- Transforms Big Data from mobile devices and other sources into actionable analytics for **transportation infrastructure and policy planning**
- Processes every month ~40 billion anonymized location records from smart phones and navigation devices in connected cars and trucks, plus 1000s of traffic counters & digital road network data



San Bernardino (CA) 2am



- Market leading provider of global roaming services
- Business transformation tool that allows telco operators to identify, segment, settle and visualize the different types of M2M and Permanent Roaming traffic on their network
- Helps to prevent traffic peaks and optimize bandwidth



Healthcare

Resources optimization in pandemic era



- StockWatch is a needs-driven data and AI application, supporting over 200 NHS local and regional teams to track and forecast their PPE (Personal Protective Equipment) at no cost
- Using advanced analytics capabilities, provides real time data visualizations and insights, to support material and procurement management teams in sourcing and supplying PPE to public services
- Provides demand forecasting using Machine Learning on top of clinical, epidemiological, and capacity data



LEAD WITH DATA™

Thank you!

For more use cases and insights:

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