

INTERNET OF THINGS

A person's hands are shown holding a glowing blue globe of the Earth. The globe is overlaid with a white network of lines and nodes, representing the Internet of Things. The background is dark blue with various digital data visualizations, including bar charts, pie charts, and abstract shapes.

Merging
Physical Into the Digital World

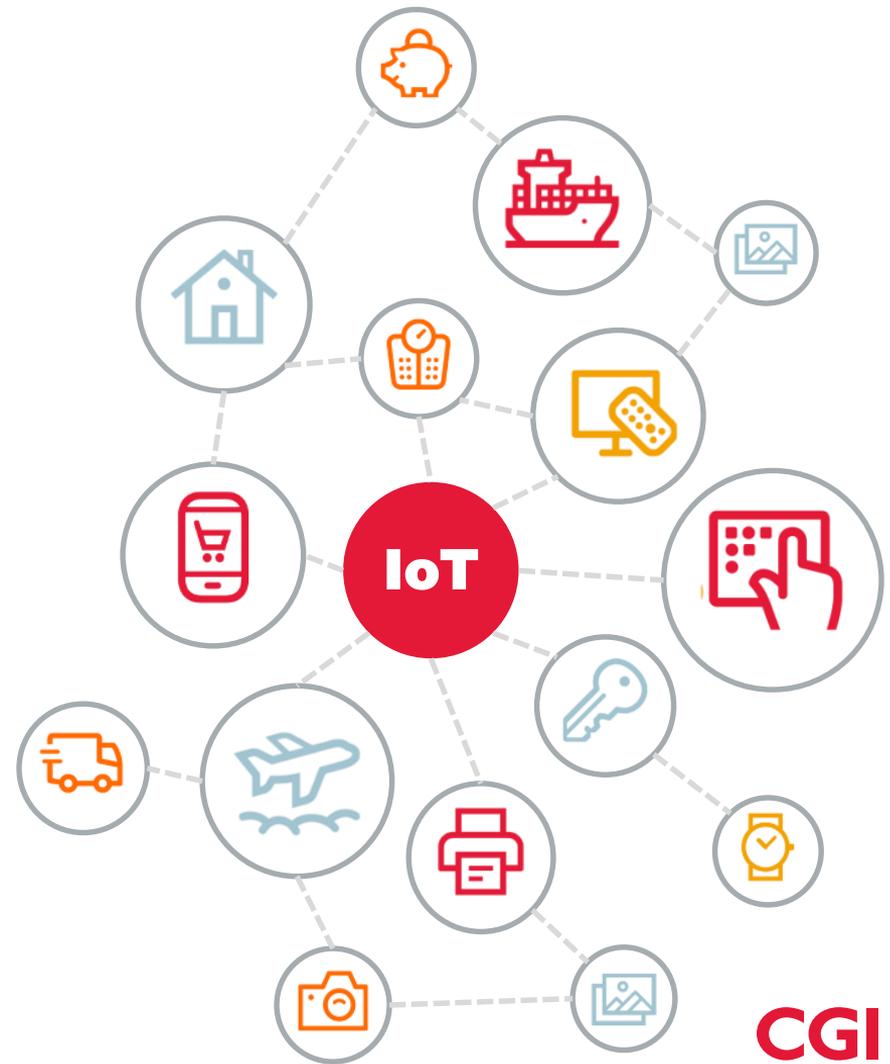
June 2017

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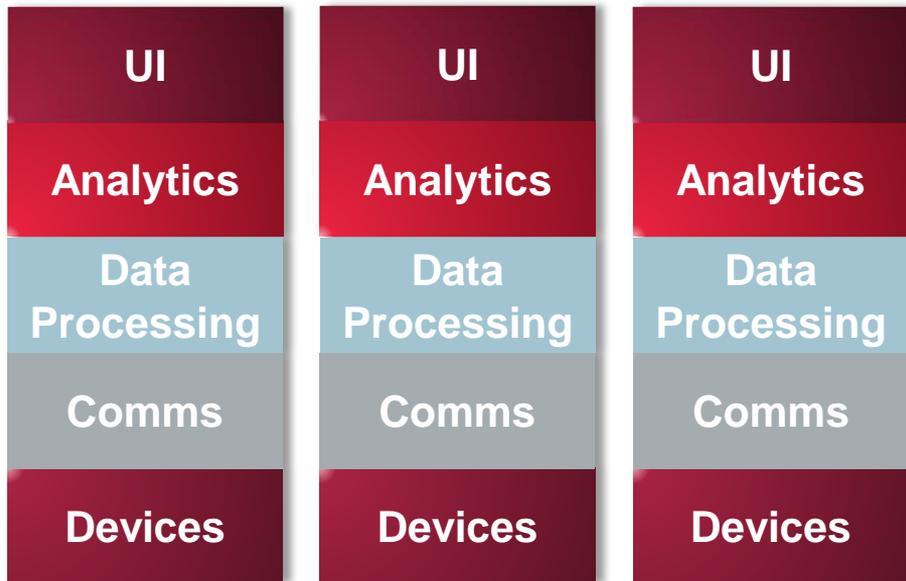
Experience the commitment®

The **Internet of Things** is transforming business, daily life, and the world as we know it. It truly is an evolution in which is changing the way we interact with technology and technology interacts with itself. The result is a merging of the physical and the digital world.





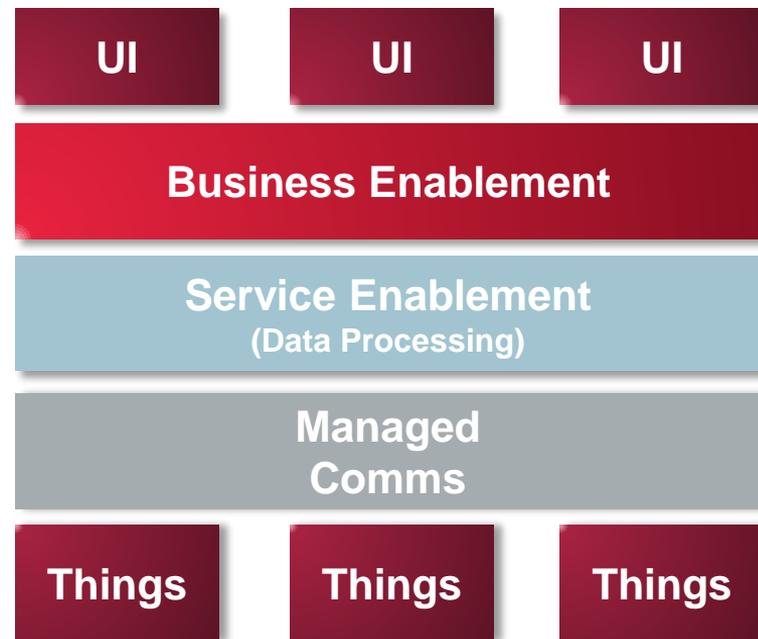
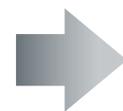
M2M



Focus on **Technology**
Multiple and **Duplicate** Deployments



IoT

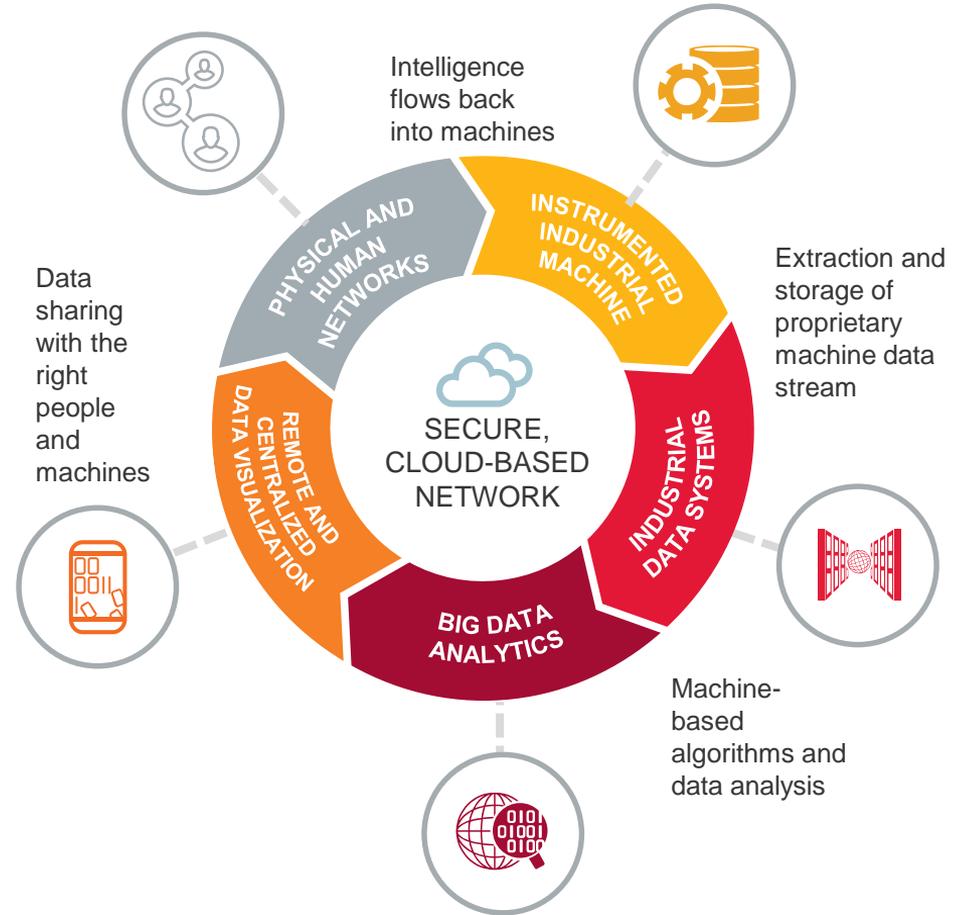


Focus on **Data**
Shared Core

IoT starts with the enterprise, driving both operational efficiency and new consumer services.

It enables multiple services from a single platform releasing data for use across the organisation.

Near real time data can be integrated with new data sources and applications.



IoT is growing... FAST!

45.4
billion

The installed base of active wireless connected devices will exceed 21bn in 2015, up 13% from 2014. The number of devices will more than double from the current level, with 45.4bn forecasted for 2020.

Source: ABI Research Internet of Everything Market Tracker
June, 2015

\$1.7
trillion

The worldwide IoT market will grow from \$655.8 billion in 2014 to \$1.7 trillion in 2020 with a compound annual growth rate (CAGR) of 16.9%.

Source: IDC Doc 256397,
Worldwide Internet of Things
Forecast, 2015–2020,
May, 2015.

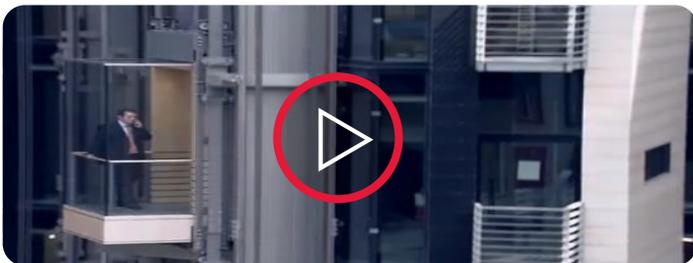
95%

Execs surveyed plan to launch an IoT business within 3 years.

Source: The Economist
Cisco Jasper infographic,
2016.

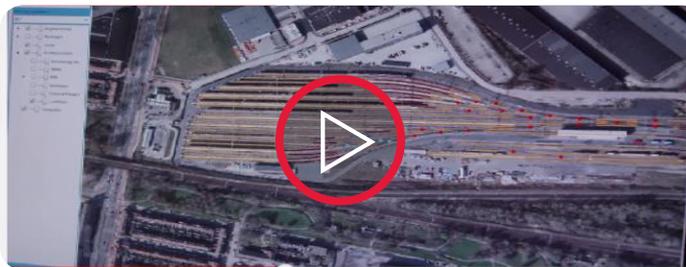
Real value. Delivered!

Transport



ThyssenKrupp Elevators Story

Transport



ProRail and CGI Develop SIGMA

Public Sector



The Exciting Journey of Helsinki

Public Sector



Smart Cities with IBOR

Making the **Internet of Things** a reality ...



CGI IoT Credentials



CGI

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External recognition for our IoT solutions



CGI won the Esri Honours Outstanding Partner Award for its state-of-the-art **SIGMA** rail management solution.



CGI's intelligent asset management work won a Microsoft Partner of the Year Award for Intelligent System Service.



CGI's iNStapp real-time seat information app for Dutch railway client **NS** won a Rotterdam Design Public Prize.



CGI and ProRail won the SAP-Microsoft United Partner Connection Innovation Award for their mobile field productivity app.



Our IBOR platform for public space management won a Dutch ICT Office Environment Award.



Our Renewables Management System for EDP won the Technology Innovation of the Year Award for Excellence in Renewable Energy.



Our Charge-Point Interactive Management System (CiMS) was shortlisted as a finalist in the "Best Mobile Innovations for Utilities" category for the Global Mobile Awards.



CGI's market-facing innovation with Hygieia was a runner up at the NASSCOM Innovation Awards.



CGI's energy saving work for VEAB won the European Utility Award for Customer Excellence



CGI's CiMS also won a Computerworld Award.



CGI's Helsinki trip planner won an Open Data Award and was rated second best public mobile service.



Our in-vehicle telematics system EMO was chosen from 400+ entries as a finalist within the "Transport" category at the IET Innovation Awards.

Case Studies



CGI was brought in to design, build and implement an insight-driven pilot elevator monitoring system that leverages the latest IoT technology.



With the support of the Transport for Greater Manchester, CGI developed a virtual travel planning assistant service for public transports passengers



ProRail and CGI developed a solution that enables employees to manage the conditions of rail lines and view track data in multiple dimensions via a geographical information system



To gather more accurate details to support Helsinki bus operations, sensors and data collection equipment were installed on buses. The solution has provided valuable data on routes and drivers.



With the support of policies forces in the city of Groningen, CGI developed an intelligent, sensor-based system that analyses emergency information on social networks.



SAT-LX is a warning system for railway crossings that can be easily deployed to remote railway crossing sites to provide travelers with timely information about approaching trains using satellite technology.



CGI worked with providers of electric vehicle charging stations to build an end-to-end Charge-Point Interactive Management System that tracks the location, condition and status of each charge point.



CGI helped the Dutch Ministry of Infrastructure and Environment, improve its management of highway lighting through IBOR, CGI's complete asset management platform.

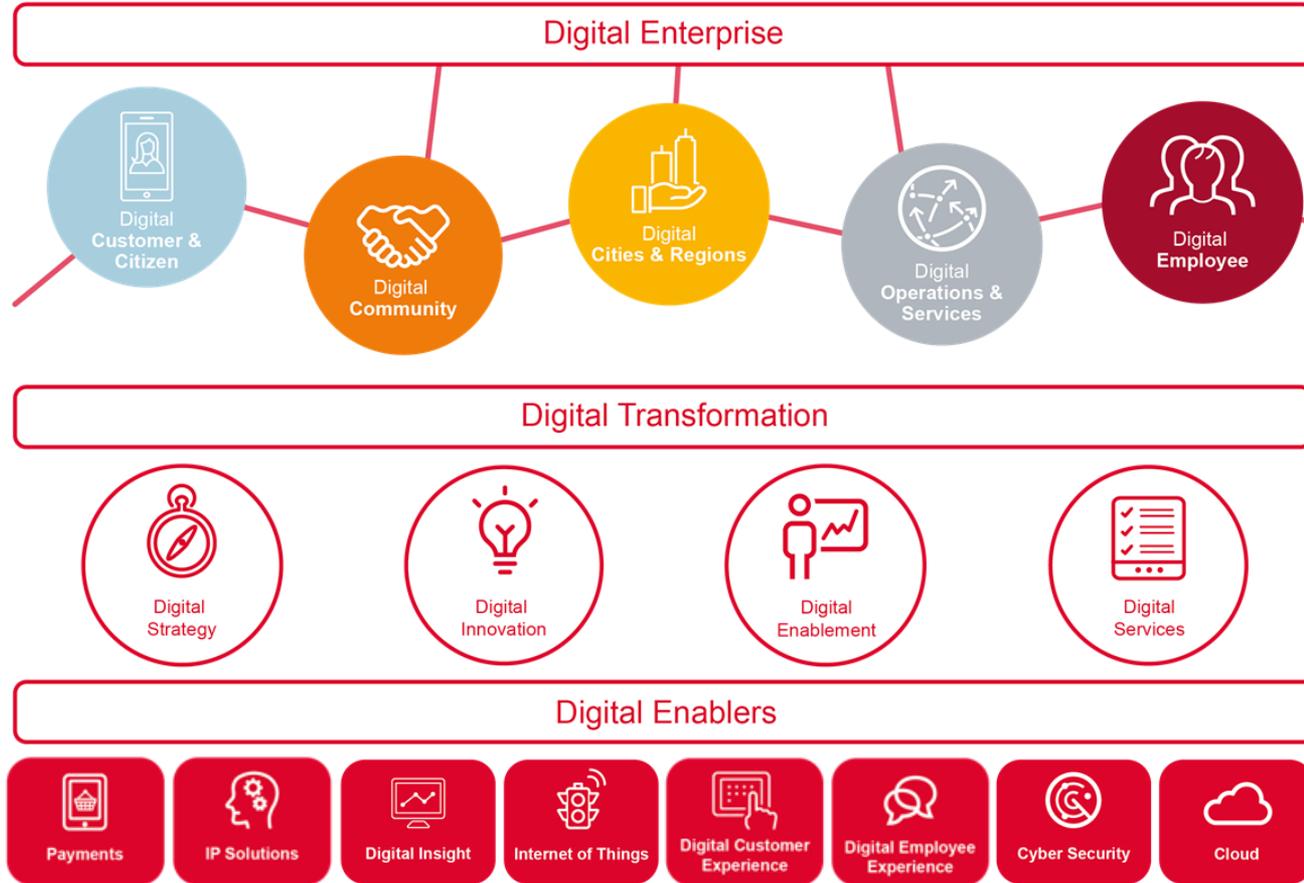


CGI maintains the radars for a transport ministry, using communication and collaboration models and risk management to prioritize critical activities, with the aim of improving road safety.



CGI worked on the Europeans Commission-funded CVIS initiative and the Dutch government's SPITS program, developing in-car and infrastructure technologies that will transform how vehicles communicate with each other

IoT plays a main role in the Digital Transformation



CGI com a experiência e tecnologia de ponta *
CGI Beacons *
Smart Banks *
Gestão de filas de espera, Real Time *

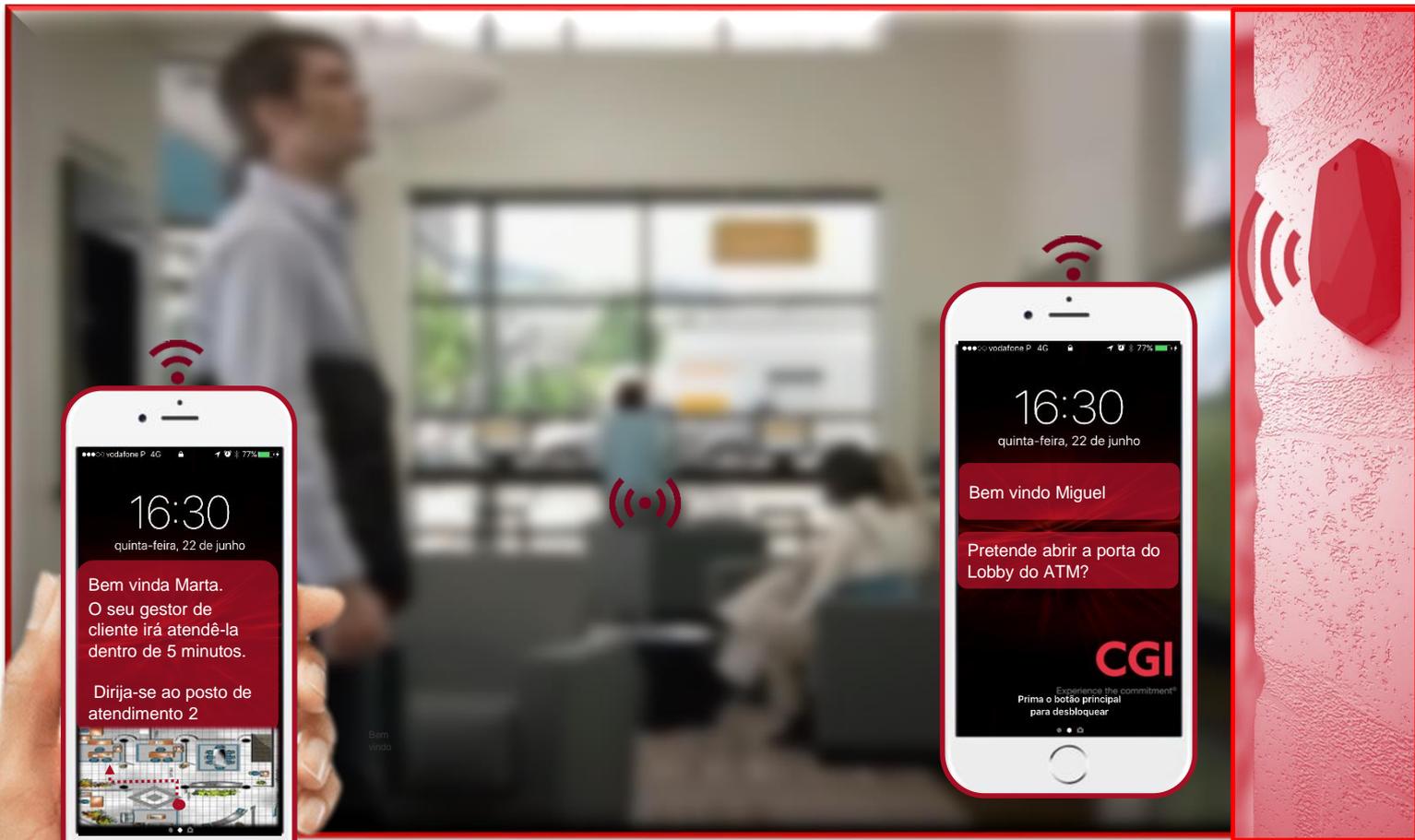


- * *Dashboard* e relatórios interactivos utilizando SAS VA
- * SAS VE – Modelação preditiva utilizando as melhores praticas do mercado e em tempo real
- * Laboratório de *Data scientists* em desenvolvimento



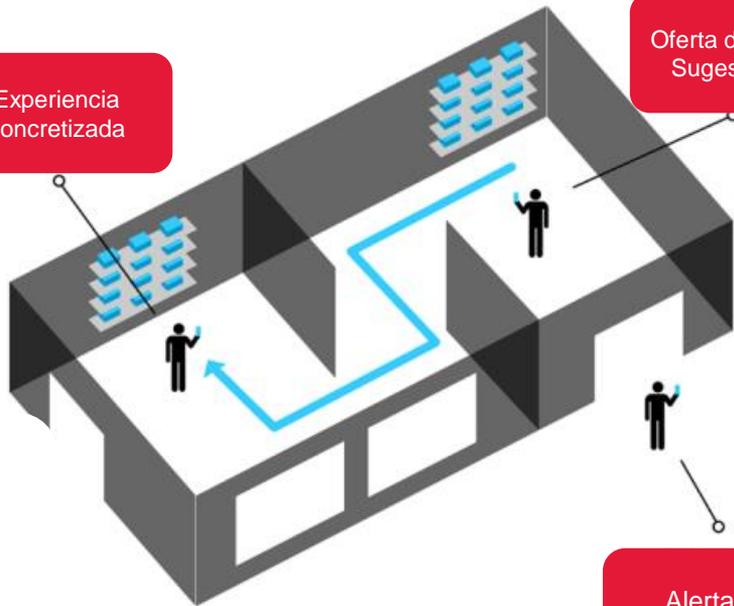
Customer experience a outro nível *
Design thinking *
User centered Design *
Next Best Action *







Experiencia concretizada



Oferta de produto Sugestionada



Alerta de Proximidade



IoT Approach

IoT starts with the enterprise; driving both

operational efficiency

and **new consumer services.**



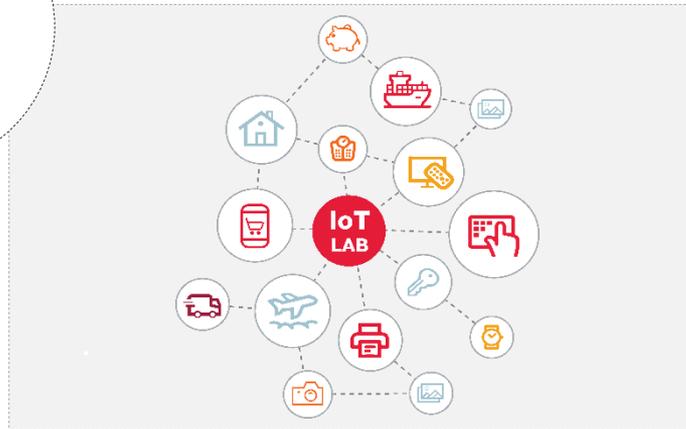
Putting all together



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AND
VISIT US**



Stand #08



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@ stand #08**

What will you **envision**
differently tomorrow?

Thank you



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