



ITLPro Solutions

Innovative Technology Leaders

Internet of Things (IoT)

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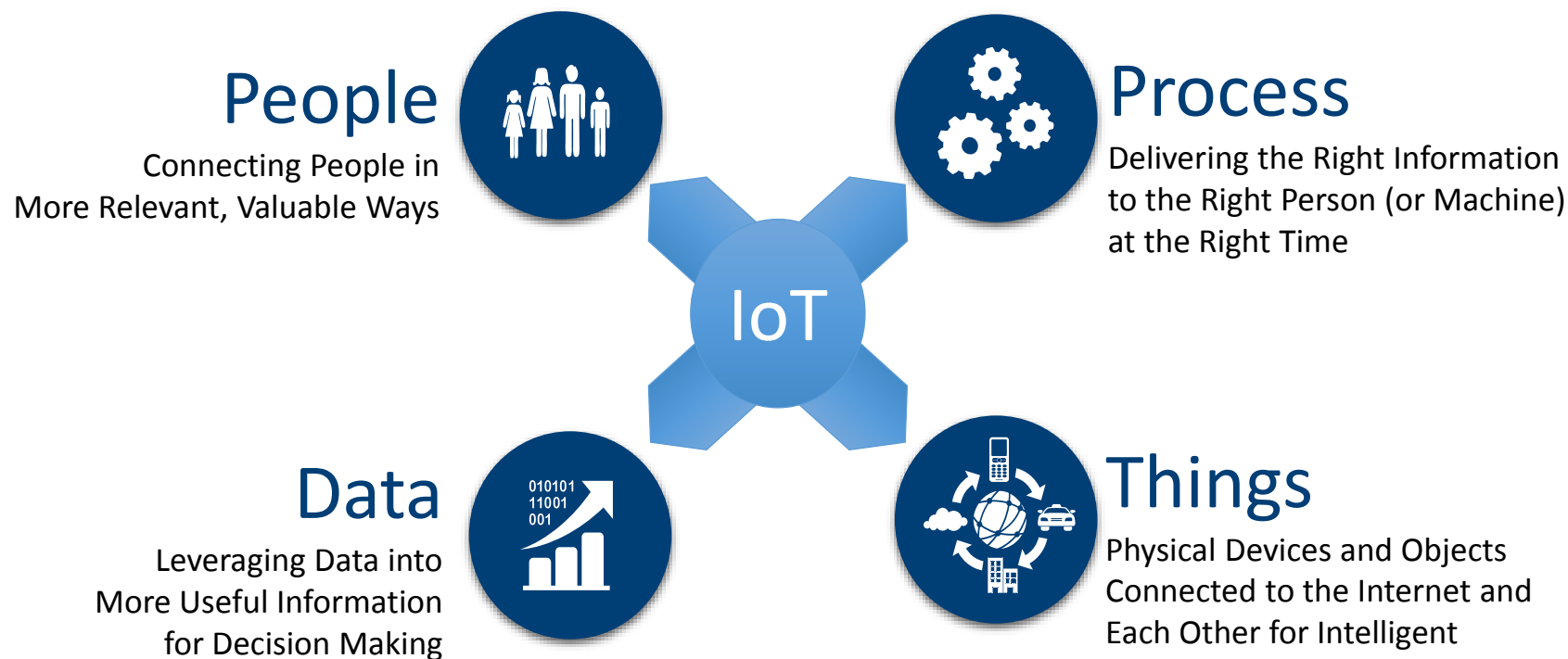


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Internet of Things (IoT)

- The Internet of Things (IoT) is the intelligent connectivity of physical devices driving massive gains in efficiency, business growth, and quality of life.

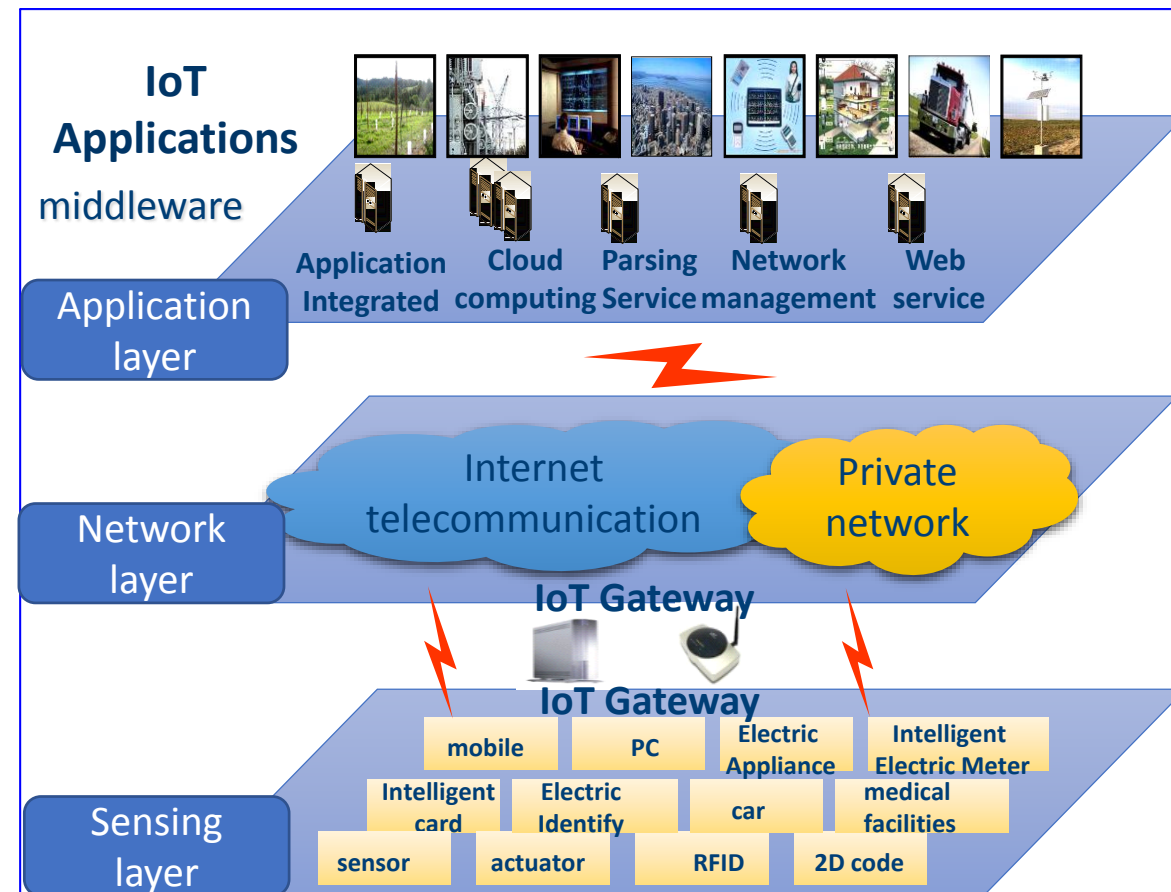


Internet of Things (IoT)

What is Internet of Things

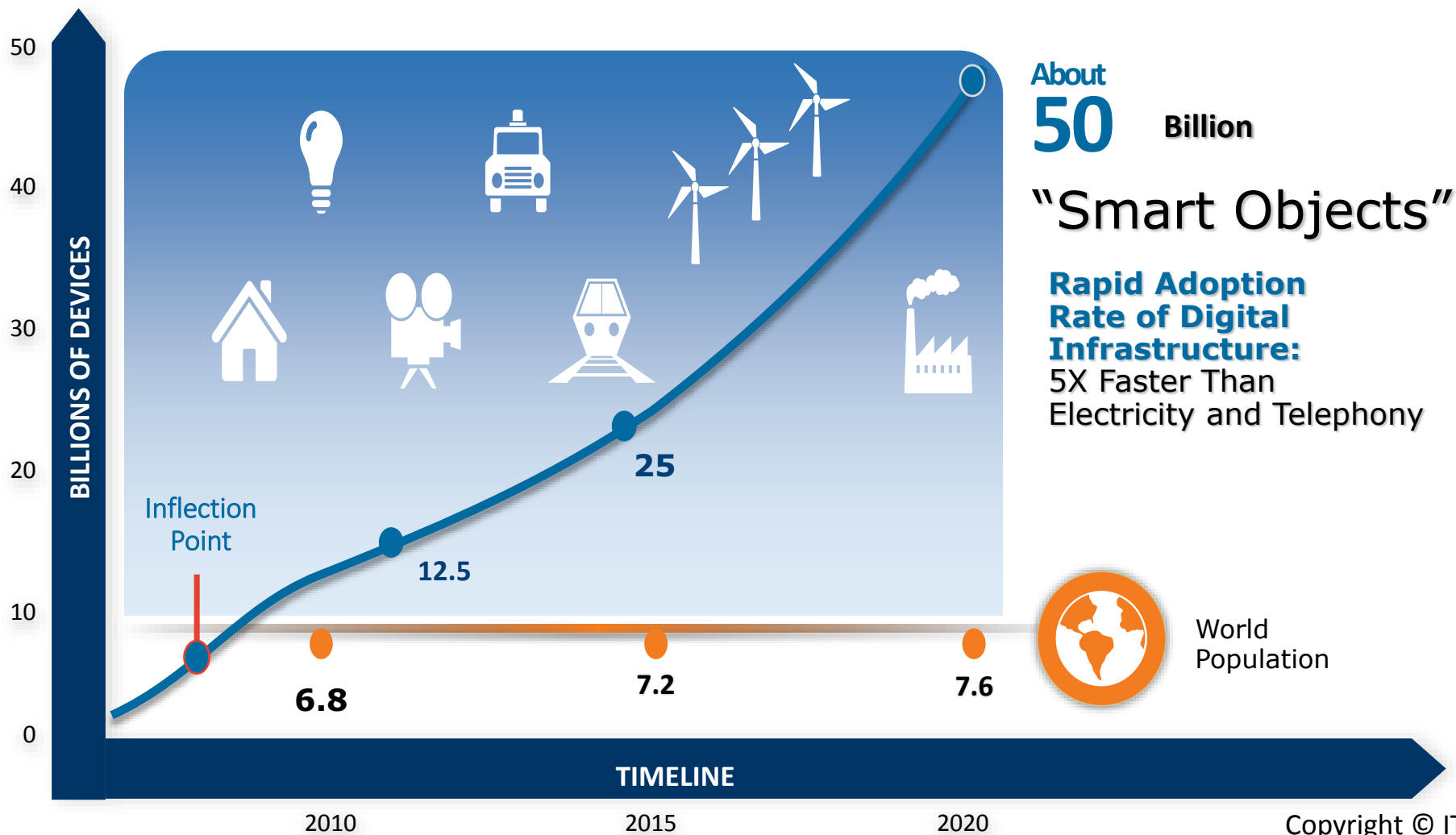
IoT senses and identifies the physical world via sensing technology and intelligent devices, performs computations, processing and knowledge mining through networking, realizes interaction between people and things, things and things, achieves real time control of the physical world, precise management, and scientific decision makings.

IoT involves sensing, networking, processing, security, and covers sensors/nodes/gateways, RFID, embedded systems, telecommunication equipment manufacturing and operation, software development and integration, and application services.



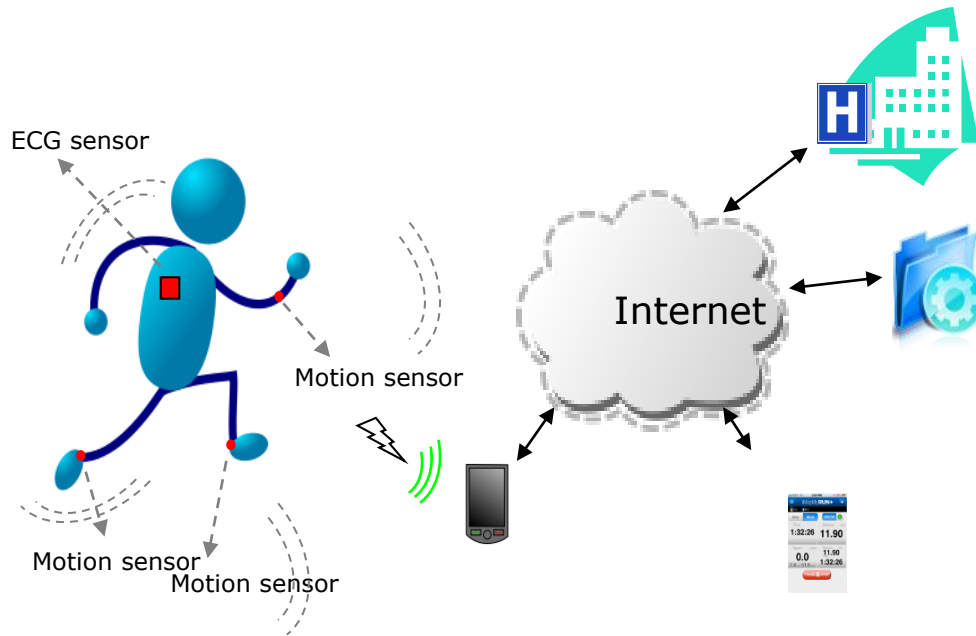
IoT can also be divided into four aspects: Sensing, Transferring, Reasoning, Controlling.

IoT Is Here Now – and Growing!

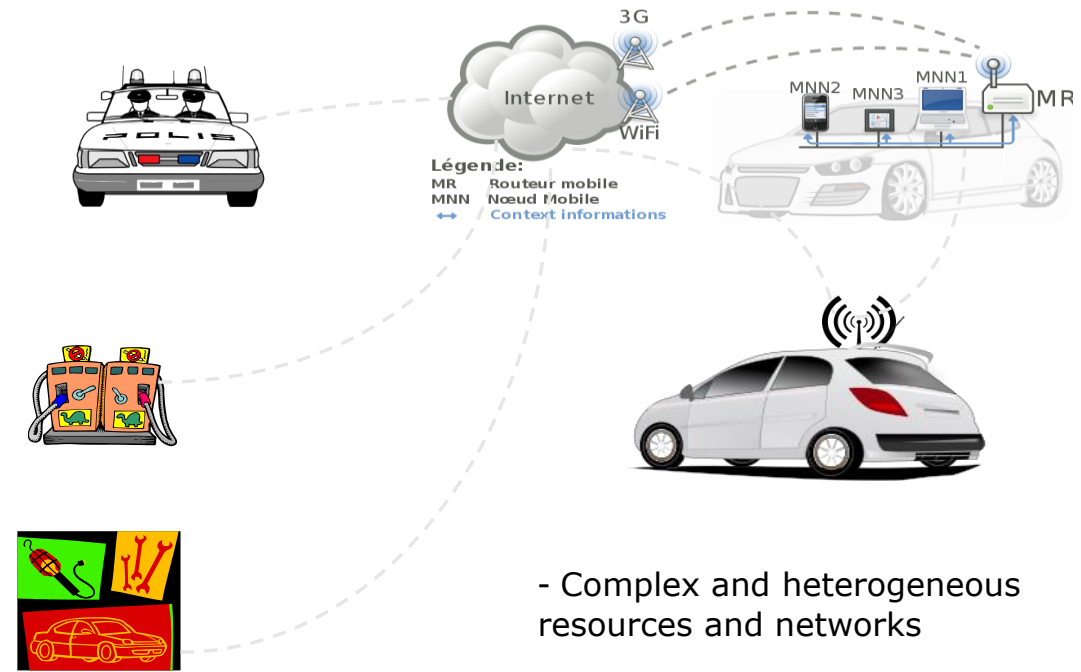


More “Things” are being connected

People Connecting to Things



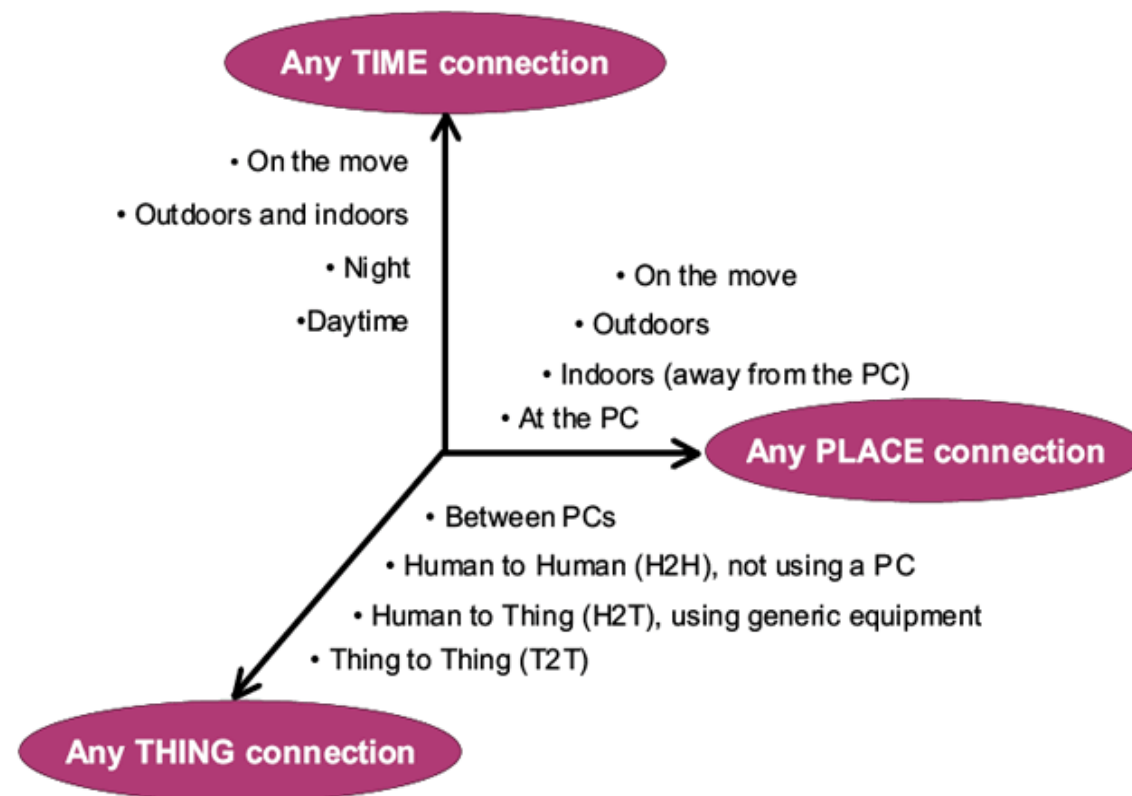
Things Connecting to Things



How are the networks changing?

- Extensions
 - More nodes, more connections, IPv6, 6LowPan,...
 - Any **TIME**, Any **PLACE** + Any **THING**
 - M2M, IoT
 - Billions of interconnected devices,
 - Everybody connected.
- Expansions
 - Broadband
- Enhancements
 - Smart networks
 - Data-centric and content-oriented networking
 - Context-aware (autonomous) systems

Future Networks



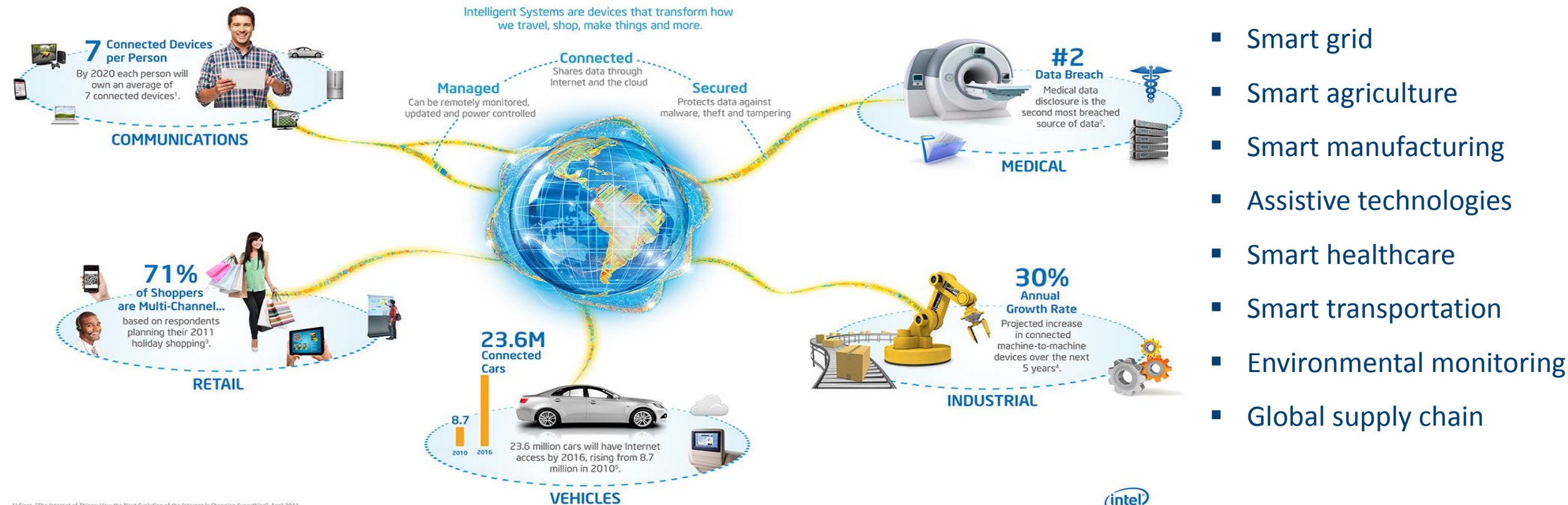
Source: ITU adapted from Nomura Research Institute

Opportunities

Intelligent Systems for a More Connected World

WHAT ARE INTELLIGENT SYSTEMS?

Intelligent Systems are devices that transform how we travel, shop, make things and more.



- Home automation
- Smart grid
- Smart agriculture
- Smart manufacturing
- Assistive technologies
- Smart healthcare
- Smart transportation
- Environmental monitoring
- Global supply chain



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Challenges

- Smart and Energy efficient & Reliable Technology
- Security
- Trust and Privacy
- Complexity, confusion and integration issues
- Evolving architectures, protocol wars and competing standards
- Concrete use cases and compelling value propositions

Road is Difficult, but Future is Bright



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Q & A



Thank You