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The Internet of Everything What is it? What's driving it? What comes next?





Born Mobile[™]

28+

years of driving the evolution of wireless

#1

in wireless semiconductors

15B+

cumulative ASIC shipments





Surge in connected things has already begun

Driven by powerful technological and generational trends



Mobile technology sparks the Internet of Everything



CONNECTING **SMART CITIES**

27 GLOBAL CITIES are targeting to be Smart Cities by 2025

Source: Frost & Sullivan, August 2013

EVOLVING TRANSPORTATION

~60% NEW CARS

shipped in 2017 will be connected through mobile technology

67

ENABLING SMARTER HOMES

>2X CONNECTED DEVICES in the household from 2013 to 2020

CREATING CLOSER CONNECTIONS



>10X growth

in wearable technology market from 2013 to 2018



The connected world

Advancing wireless infrastructure is key in the mobile age











Continuous evolution

LTE Broadcast

Device-to-device communication

Small cells

Embedded devices and sensors



SMART PUBLIC SPACES

Merging digital information with physical location for maximum relevance

Sports and entertainmen venues

Transportation hubs



Museums and parks



Smart energy meters



Smart parking meters and garages



Vehicle to infrastructure communication

SMART INFRASTRUCTURE

Converges with the Connected Car

Wireless Vehicle Charging Road sensors

Automotive telematics

From safety & security to high speed LTE hotspots



Safety and security

Vehicle diagnostics

3G /LTE Mobile broadband

Mobile voice

eCall

Navigation services

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In-car connectivit
Wi-Fi
Bluetooth
NFC



Head unit connectivity



Qualcomm[®] Snapdragon[™] automotive solutions Driving the next generation of in-car connected experiences



Qualcommmm Snapdragon and Qualcomm Adreno are products of Qualcomm Technologies Inc. The AllJoyn open source project is a collaborative open source project of the AllSeen Alliance.

The connected SmartHome

The connected SmartHome is already here

Connecting everyday things to each other and the world

Increased demands on home networks

Quantity of content coming into the home expected to more than **triple** by 2016

Source: Cisco Visual Networking Index, May '12

Qualcomm[®] Smart Gateway Platform Enabling a new breed of applications and services in the home

Qualcomm® Internet Processor (IPQ)	Qualcomm® VIVE 802.11ac™	Qualcomm® StreamBoost™ Intelligence	AllJoyn™ Framework & Services	Open App-Friendly Environment
Immense 10K+DMIPs processing to power multiple devices, applications, services	3-stream, dual-band 802.11ac networking capacity	To optimize the networking capacity of the broadband connection	Enabling discovery, onboarding & control of many "things"	To facilitate development of new network apps & services
alcomm Smart Gateway Platform, Qualcomm Internet Processor, Qualcomm VIVE, and Qualcomm StreamBoost are products of Qualcomm Atheros, Inc.				

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Connected home

New Internet Processor brings our mobile DNA to the network

Creating a Digital 6th Sense

1

Devices that communicate with and tap into nearby resources

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Input and output devices

Sensors

Auxiliary processing

Wireless power

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Know the user's location

Sense the user's motion

See the user's environment

Hear the user's surroundings

IoE brings a new set of challenges

nearby friendly devices

IDENTIFY services running on those devices

ADAPT to devices coming and going

MANAGE diverse transports

INTEROPERATE across different OSes

EXCHANGE information and services

SECURE against nearby bad <u>actors</u>

Connection is only the beginning

Meaningful interaction between smart things requires a common language

Enabling seamless interactivity

Delivering relevant information and control when and where it makes the most sense

AllSeen Alliance

Mission: To enable widespread adoption and help accelerate the development and evolution of an interoperable peer connectivity and communications framework based on AllJoyn for devices and applications in the IoE

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