

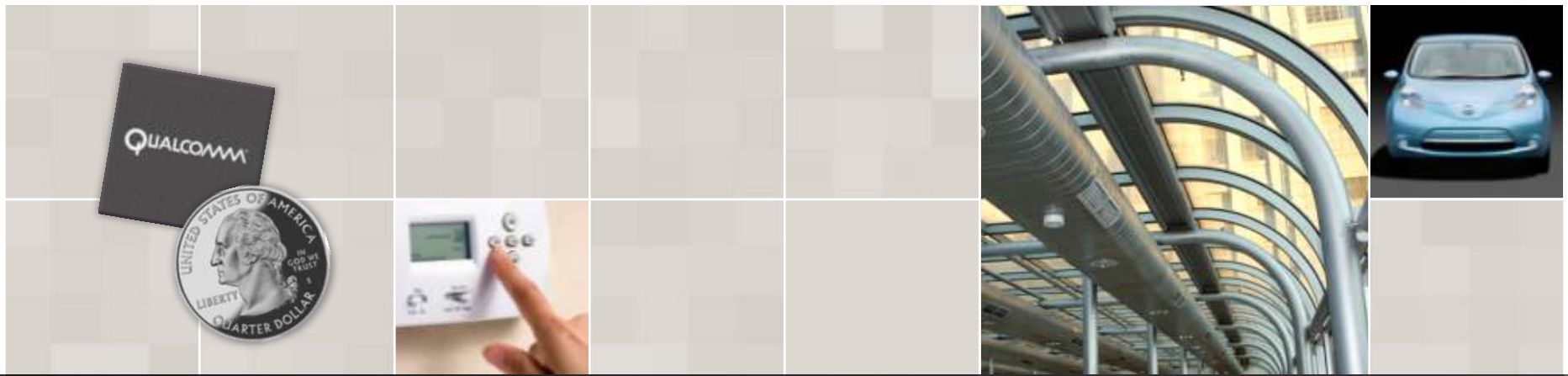


Innovation
Qualcomm
ISTANBUL
2 0 1 1

QUALCOMM

**Enabling the Internet of
Everything with 3G**

INDUSTRY
ANALYST
SUMMIT
EMEA



The Internet of Everything

The Next Era of Networking and Computing,
Where Everything Is Intelligently Connected



Multiple Radio Environment

WAN—LAN—PAN



Interest Spanning a Number of Verticals



**CONSUMER
ELECTRONICS**



TRANSPORTATION



UTILITIES



BUILDINGS



HEALTHCARE



**TRACKING
AND SECURITY**



**INDUSTRIAL AND
MANUFACTURING**



RETAIL

Expanding Opportunities

New
Revenue
Opportunities

Alternative
Business
Models

Greater
Operational
Efficiencies

Reducing
Costs

Improving
Products and
Services

Enhancing
Customer
Service

Transforming the In-Car Experience



**INFOTAINMENT
SERVICES**



**NAVIGATION
SERVICES**



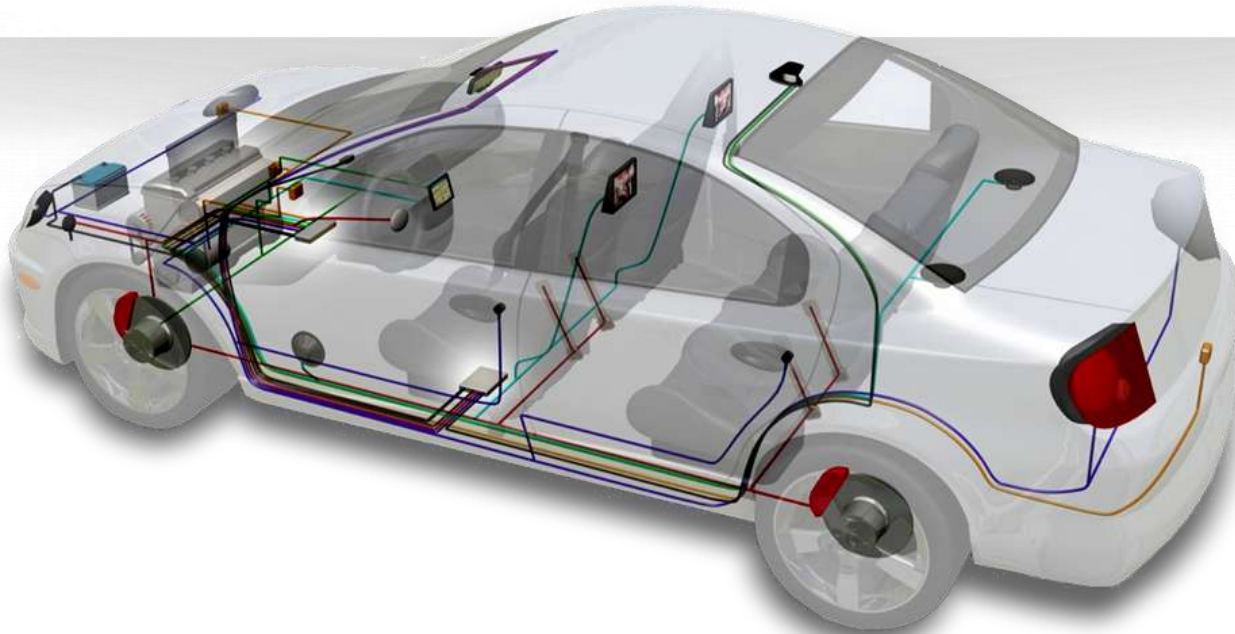
**SAFETY AND
SECURITY**



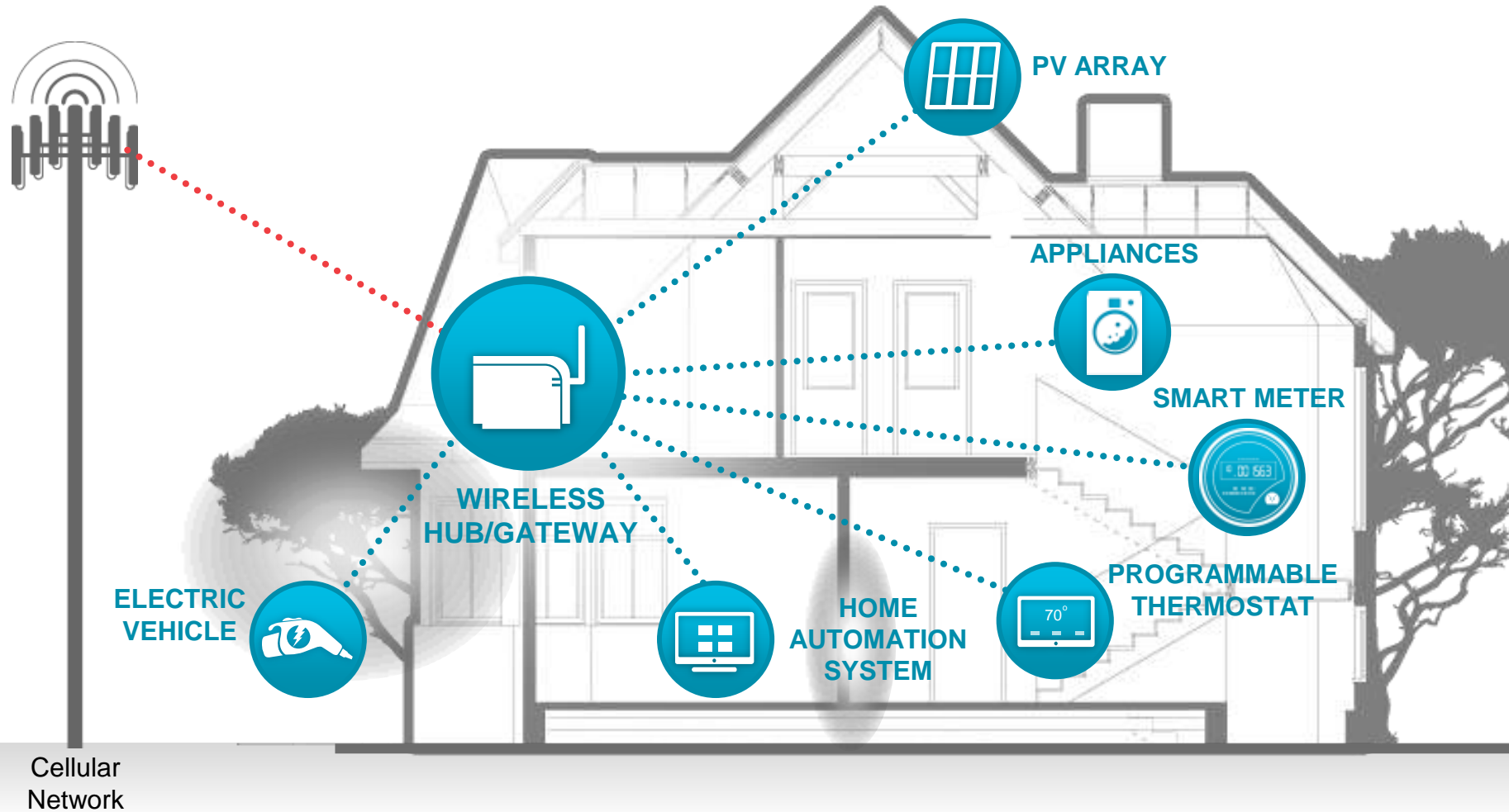
**MOBILE
HOTSPOT**



**REAR-SEAT
ENTERTAINMENT**



Enabling Home Energy Management

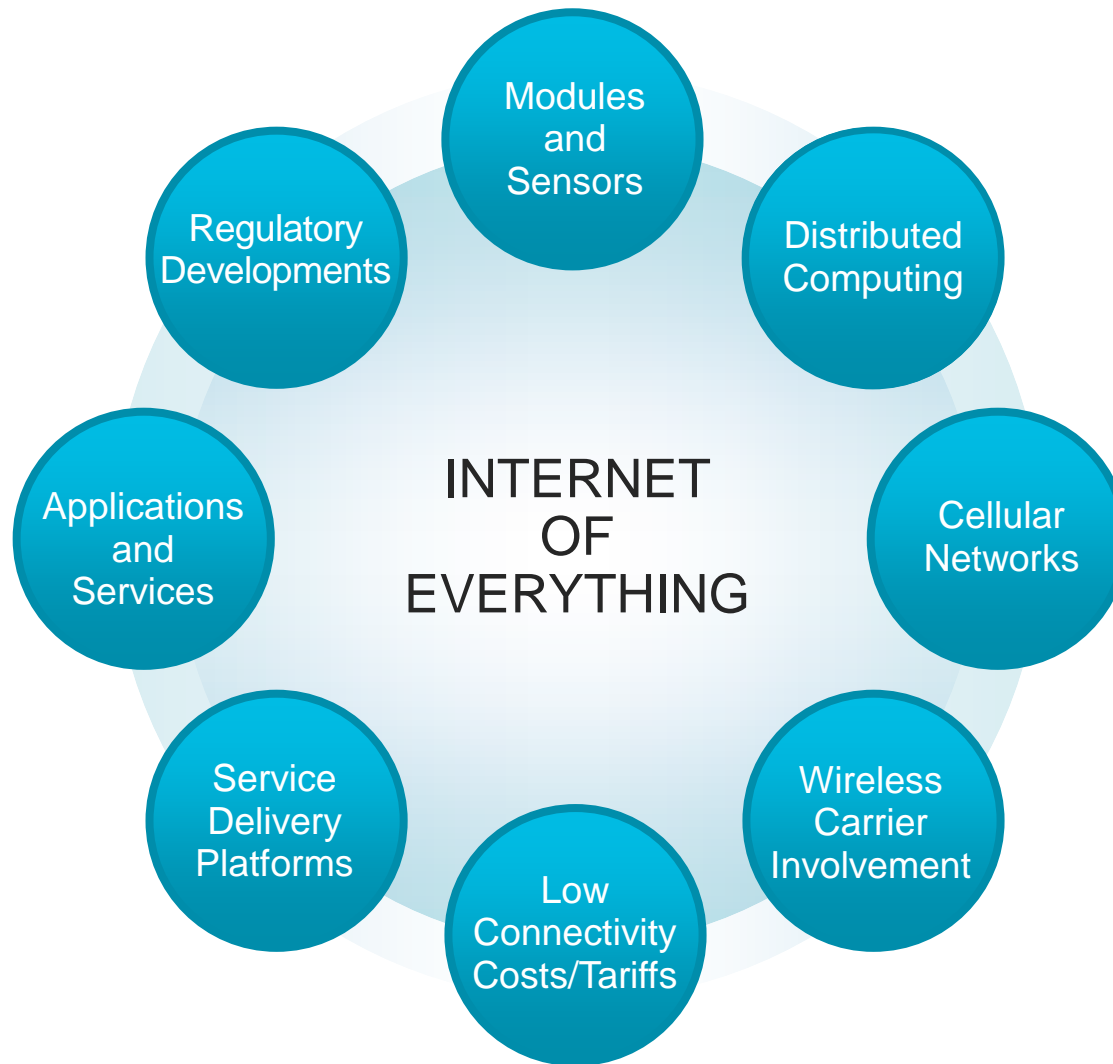


Transforming Health and Medicine

WIRELESS IS PROFOUNDLY IMPACTING LIFE SCIENCES,
MEDICINE AND CONSUMER HEALTH

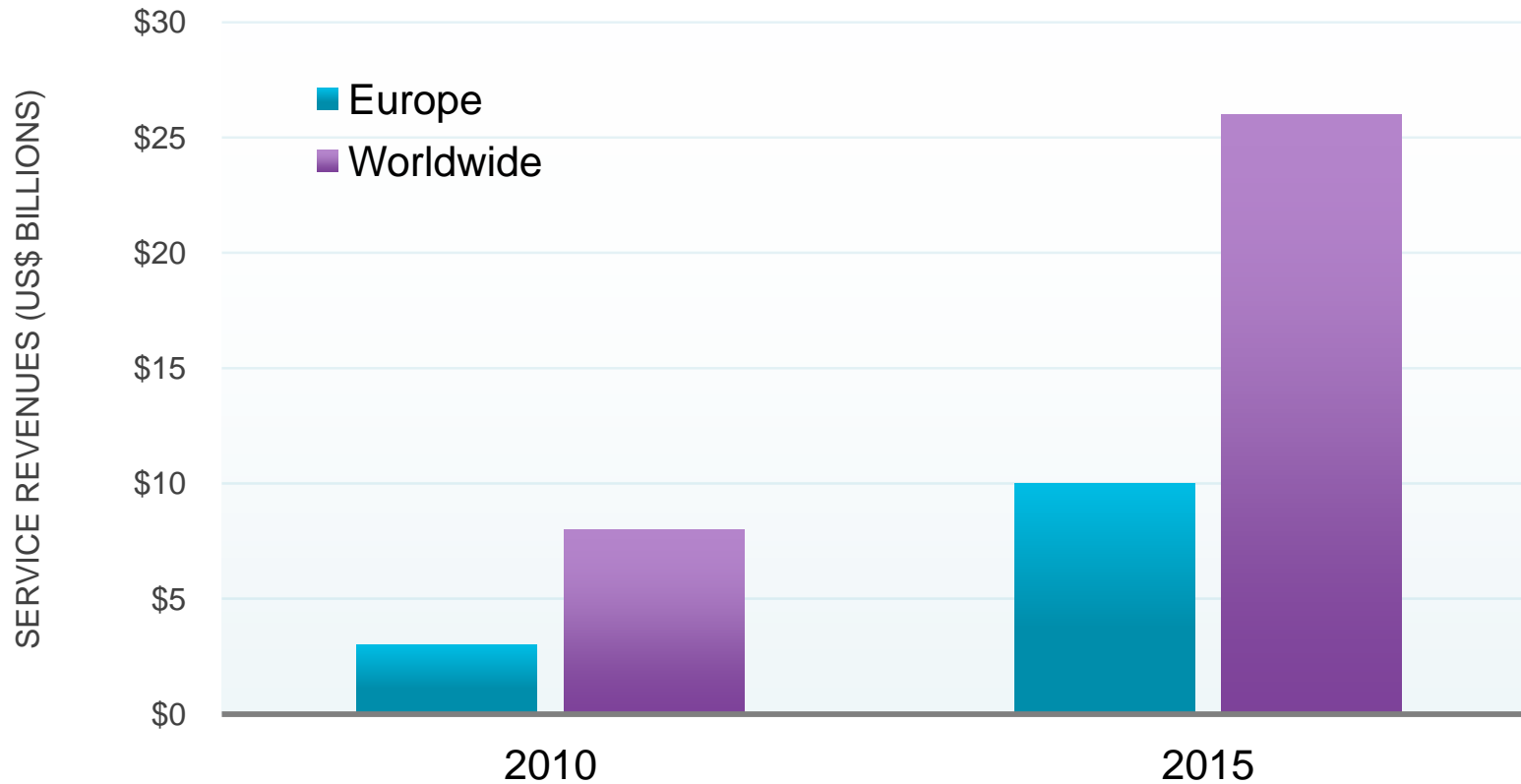


Industry Trends Are Aligning



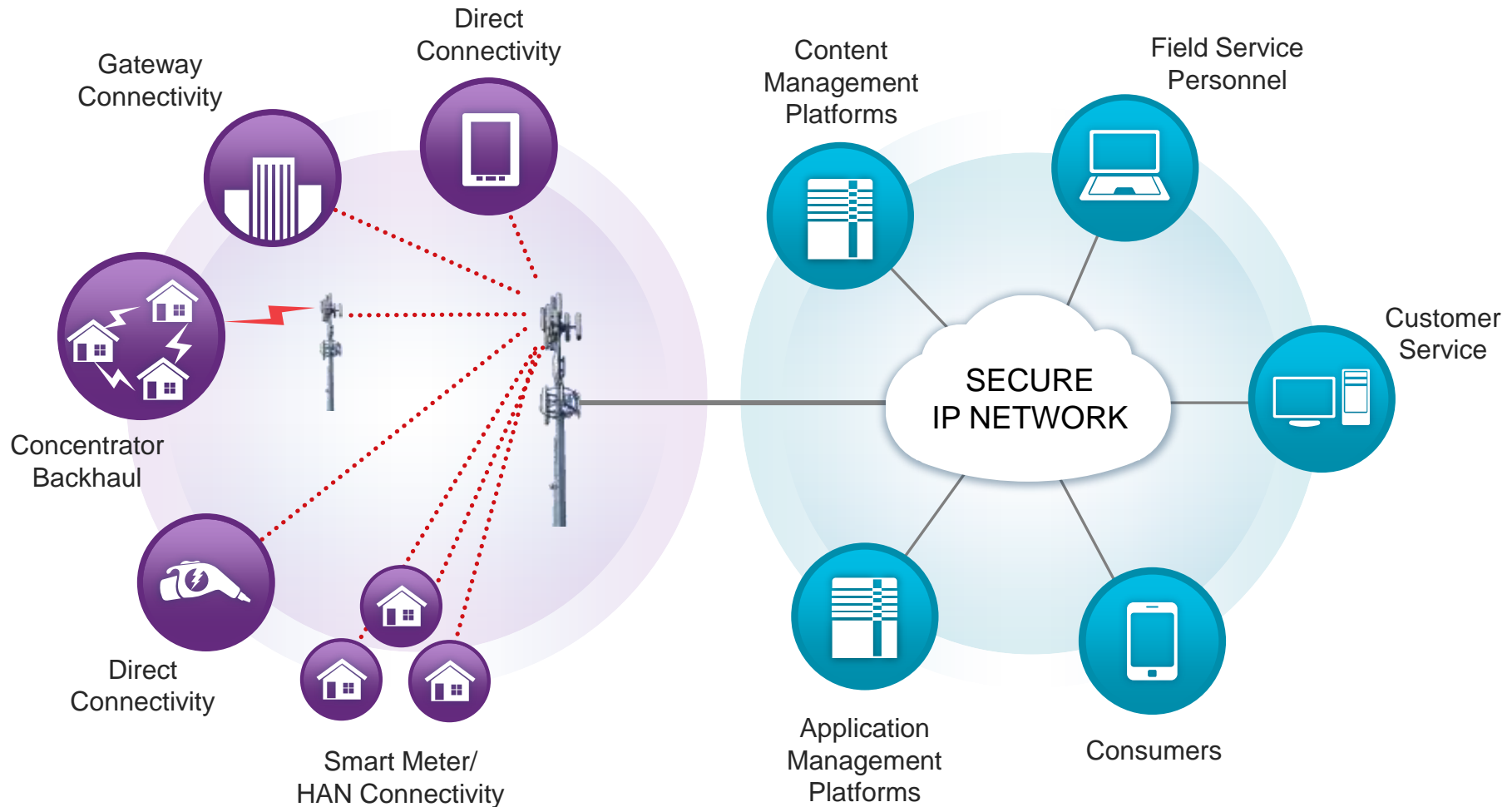
Strong Service Revenue Growth

EU SERVICE REVENUES REPRESENT 40% OF WORLDWIDE SERVICE REVENUES



Source: ABI, September 2010

Cellular's Role in the Internet of Everything










Future Proofing with 3G

RAPIDLY DECLINING HARDWARE COSTS AND GREATER CAPABILITIES AND FLEXIBILITY ARE DRIVING USE

	2G	3G	LTE
COVERAGE	✓	✓	
MODULE COST	✓		
CONNECTIVITY COST	✓	✓	(TBD)
TOTAL COST OF OWNERSHIP (TCO)		✓	
LOW LATENCY		✓	✓
HIGH DATA RATES		✓	✓
NETWORK CAPACITY		✓	✓
LIFE CYCLE		✓	✓
INTEGRATED GPS		✓	✓
SECURITY		✓	✓
IP-BASED ARCHITECTURE		✓	✓

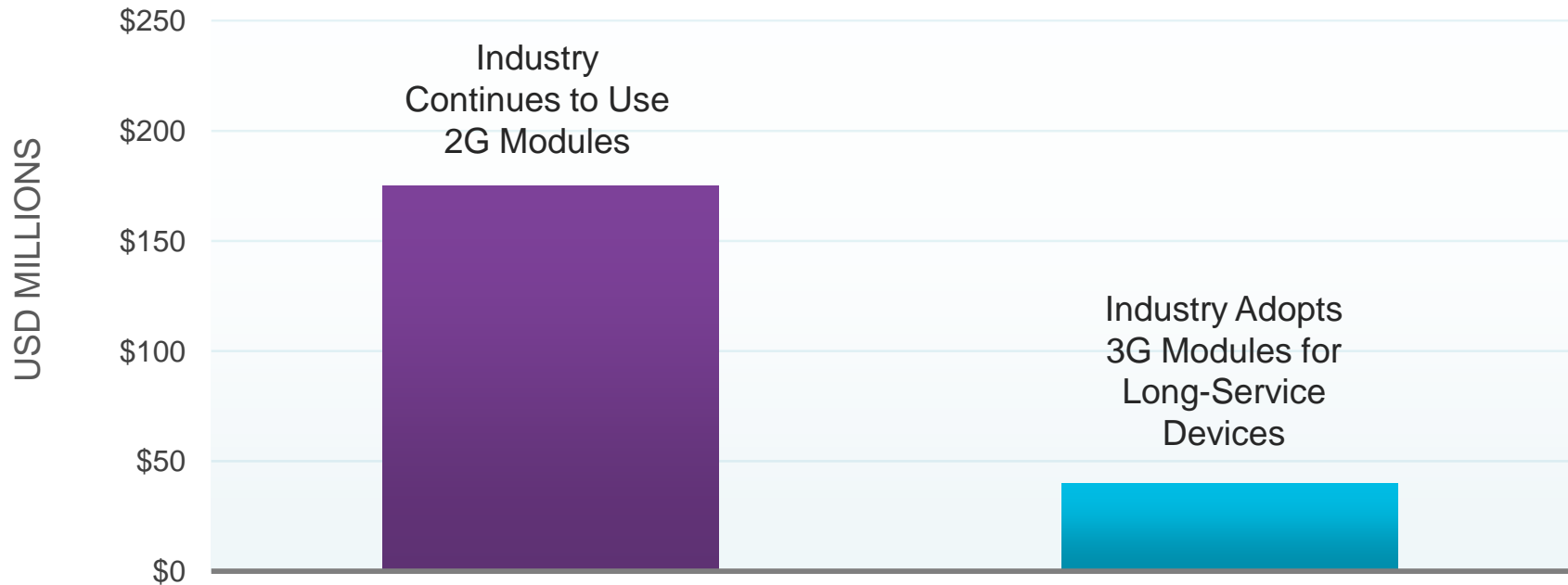
Lower TCO with Mobile Broadband

		Module Cost as % of TCO
	UTILITIES	6%
	TRANSPORT	5%
	PATIENT MONITORING	12%
	INDUSTRIAL	2%
	DOMESTIC SECURITY	6%
	RETAIL	6%
	CONSUMER/HOUSEHOLD	13%

Source: Analyst Mason, 2010

Today's Device Choices Could Limit Operator's Flexibility

COST OF REPLACING 2G MODULES FOR TYPICAL W. EUROPEAN OPERATOR* DECOMMISSIONING 2G NETWORK IN 2020

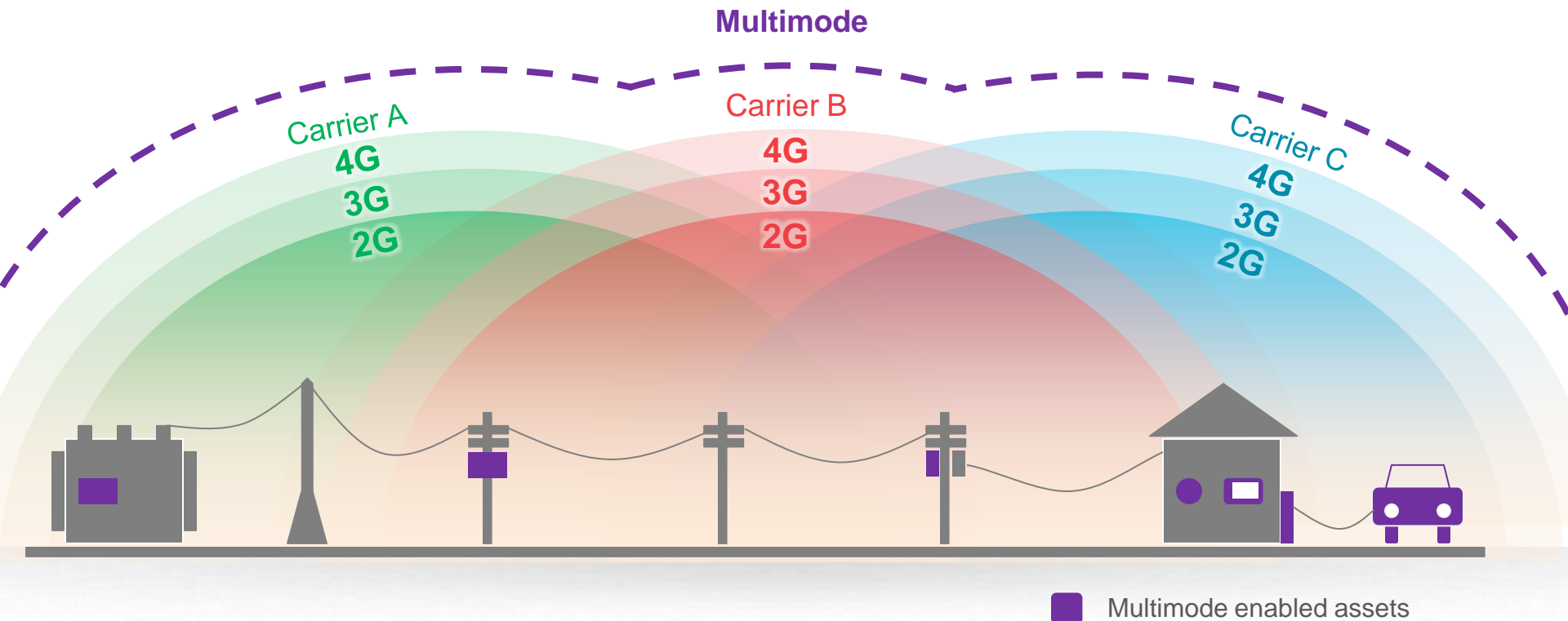


*Defined as having 10 million traditional subscribers. Source: Analyst Mason, 2010

Enabling Greater Flexibility with Multimode

ONE DEVICE, MULTIPLE CARRIERS AND NETWORK TECHNOLOGIES

- Enhance coverage and reliability by leveraging overlapping networks
- Fallback to previous generation technologies
- Improve asset lifespan



Growing Emphasis on M2M



Expanding Use of 3G Embedded Solutions



New Device Categories and User Experiences

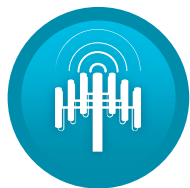


M2M Heritage

Qualcomm has been a leading provider of commercial telematics services and solutions to the transportation industry for more than 20 years



Enabling the Internet of Everything Ecosystem



WIDE AREA NETWORK SOLUTIONS

- Cellular
 - Mobile Station Modems (MSM)
 - Single-Chip Solutions (QSC)
 - Mobile Data Modems (MDM)
 - Gobi Reference Design
 - Snapdragon (QSD)
- Passive Optical Network (PON)
 - 802.3ah



LOCAL AREA NETWORK SOLUTIONS

- WLAN
 - 802.11n
 - 802.11ac
- Powerline (PLC)
 - IEEE 1901
 - Homeplug certified
- Ethernet
 - 802.3az-2010



PERSONAL AREA AND P2P SOLUTIONS

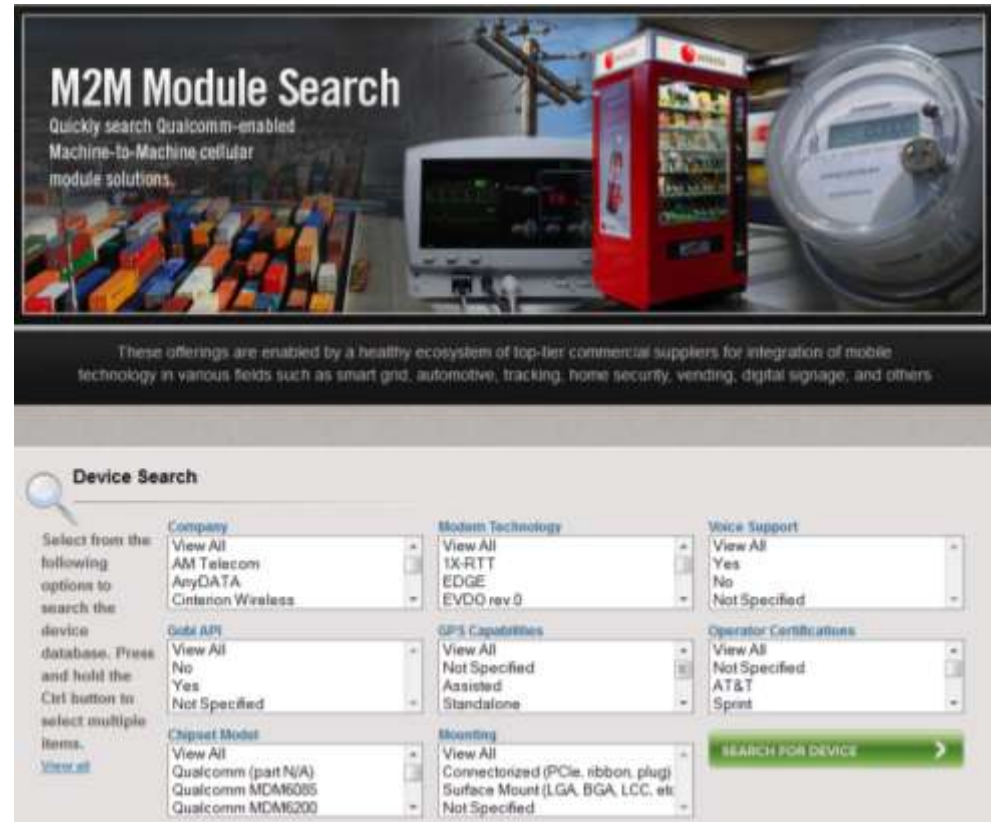
- Bluetooth
- WiGig (802.11ad)
- Alljoyn
 - Ad-hoc P2P solution
- Skifta
 - Streaming from smartphones to DLNA-certified products
- Direct Connect
 - Wi-Fi Direct compliant

GPS

QUALCOMM HAS A BROAD ARRAY OF TECHNOLOGIES AND SOLUTIONS THAT ARE HELPING TO DRIVE THE INTERNET OF EVERYTHING FORWARD

Qualcomm-Enabled M2M Module Database

- Searchable database of Qualcomm-enabled M2M modules
- Contains 70+ modules from more than 10 OEMs
- Includes specs and module vendors contact details



<http://www.m2msearch.com/>



Thank You

