

The Internet of Everything

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



The Internet of Everything ...

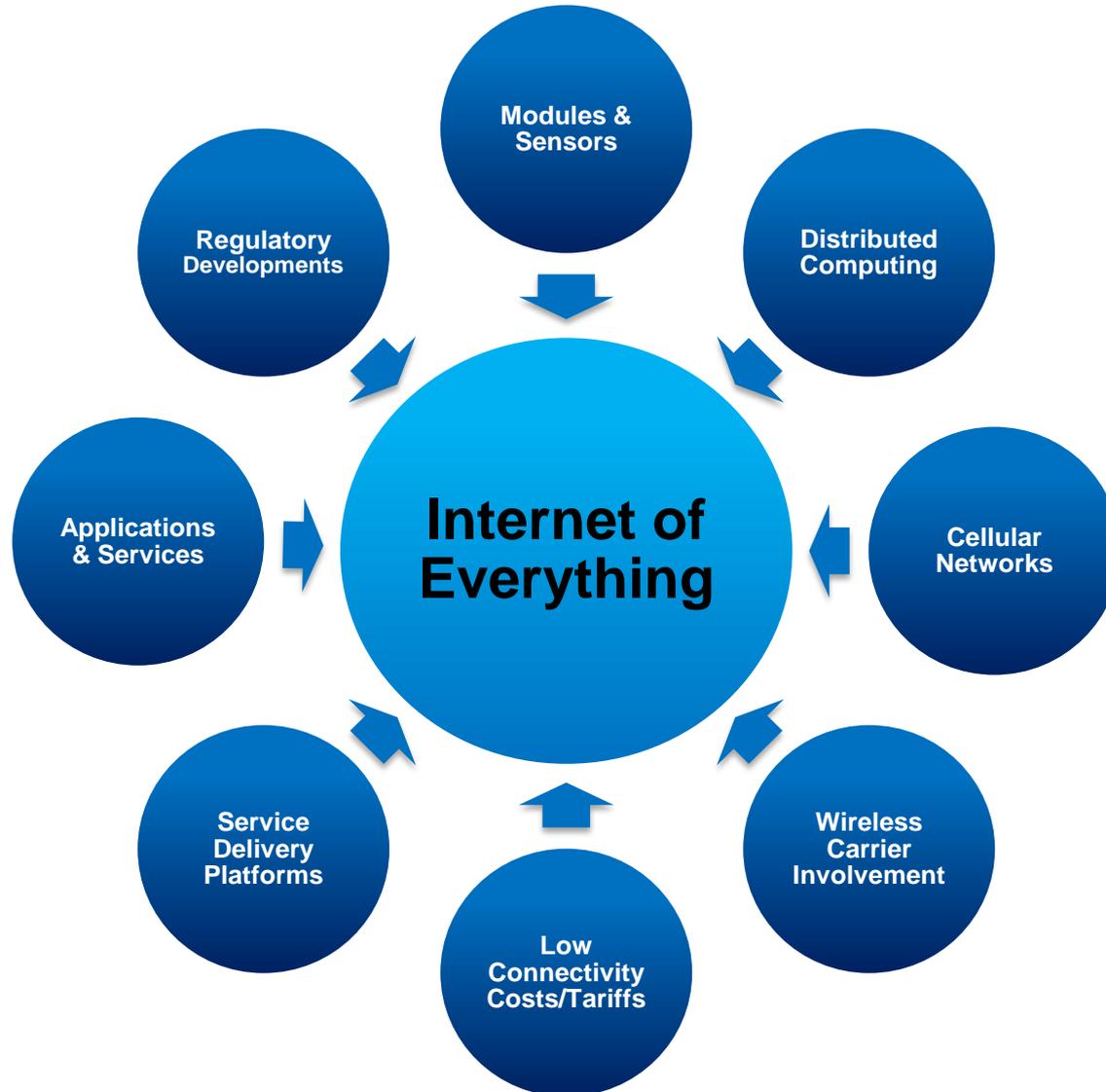
Advanced wireless technologies, applications, middleware and module/sensors enable the real time exchange of information between objects



... Could Connect Billions of Objects



Industry Trends are Aligning



Homes Are An Important Part of Our Lives

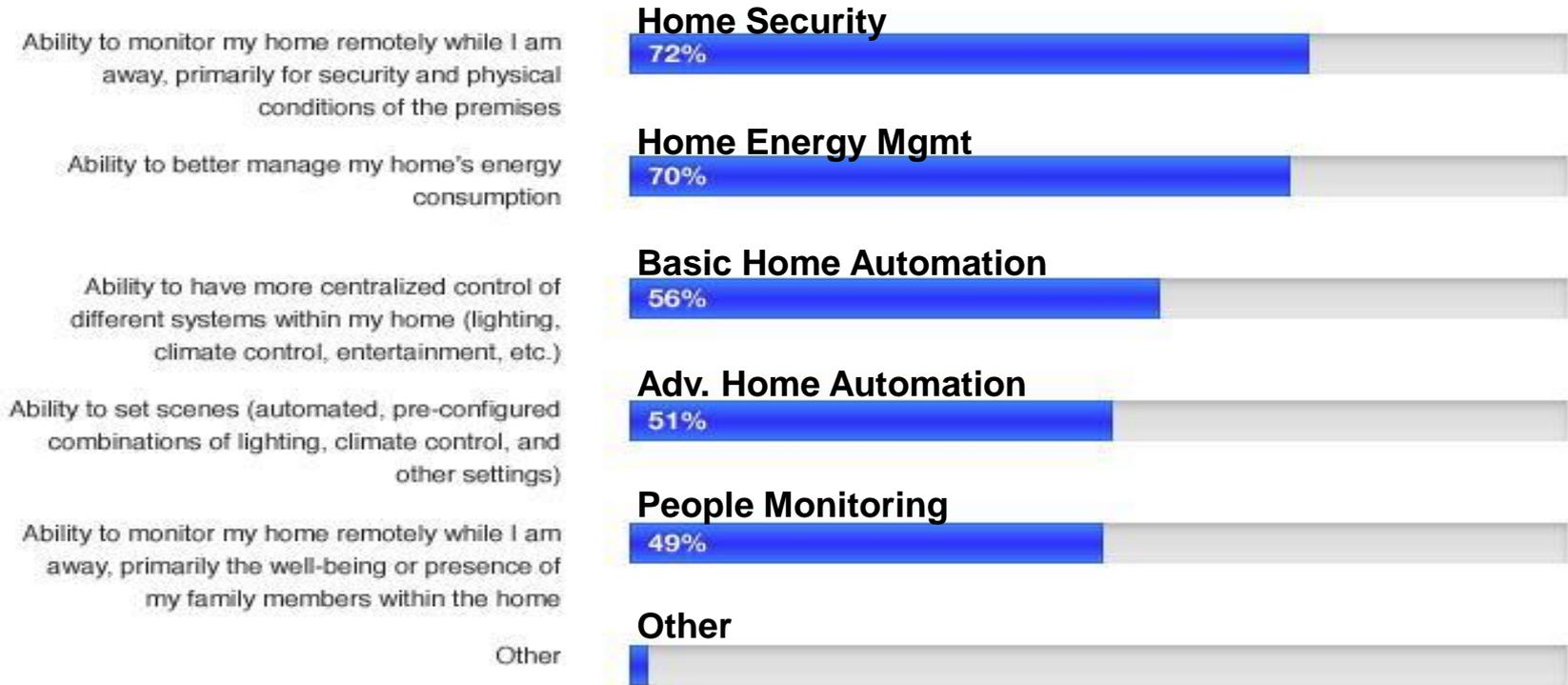
500+ Million

10+ Hours/Day



That's Why Consumers Express Interest ...

Unmet customer needs: What control/monitoring features are you most likely to use?



Source: ABI Research, February 2009

... In A New Connected Home Experience

Home Security

- Monitor home for intrusion, fire, ...
- Detect key events, triggers alarms
- Notify internet connected monitor
- Send surveillance video or photos

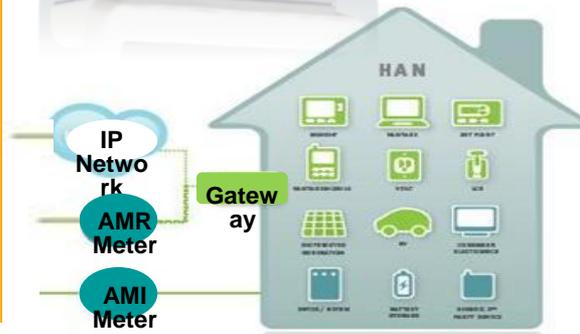


Live Video & Video Capture



Home Energy Management

- Monitor & control energy consumption:
 - Real time usage from household devices
 - Pricing from utilities
- Demand response and load control
- Distributed generation
- Charging electric vehicle



Home Automation

- Monitor & control home devices:
 - lighting systems, HVAC
 - window covers, garage doors
 - Audio/visual systems
 - Irrigation systems



... And In Home Healthcare Services

Remote Patient Monitoring

- Home gateway + monitoring services
- Capture vitals and sends them to ERM
- Delivers advice to patient on personal device
- Ex: Diabetes, sleep apnea, epilepsy



MCKESSON
Health Buddy®

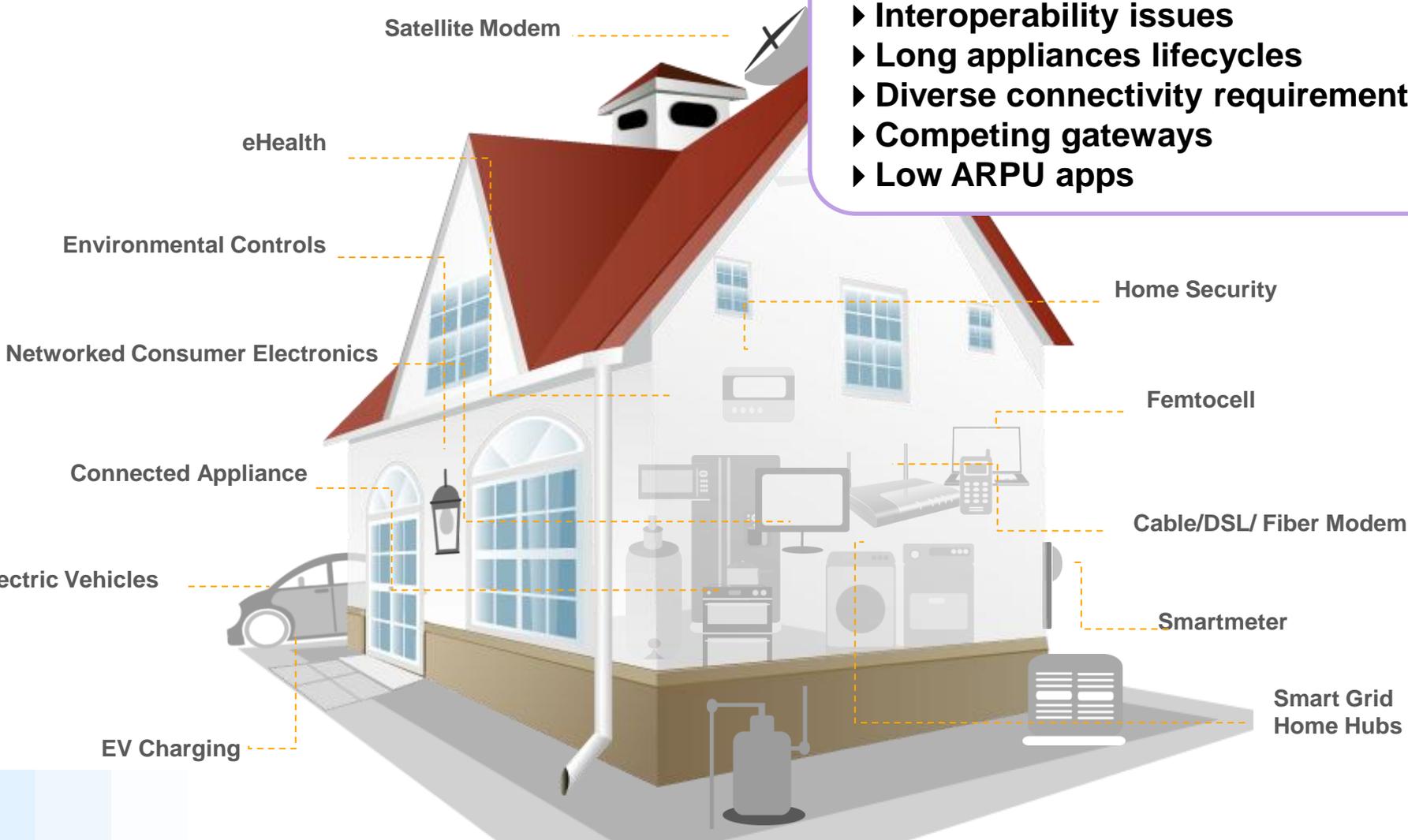
Ambient Assisted Living

- Sensors to monitor condition & well-being of seniors/handicapped:
 - - motion sensors, bed pressure sensors,
 - - medication dispensers
 - - refrigerator & toilet sensors
- Connect through a gateway to a hosted application
- Monitored by caregivers through web portal
- 15M seniors live by themselves (U.S.)



But Managing Diversity Is a Key Challenge

- ▶ Multiple niche applications
- ▶ Interoperability issues
- ▶ Long appliances lifecycles
- ▶ Diverse connectivity requirements
- ▶ Competing gateways
- ▶ Low ARPU apps



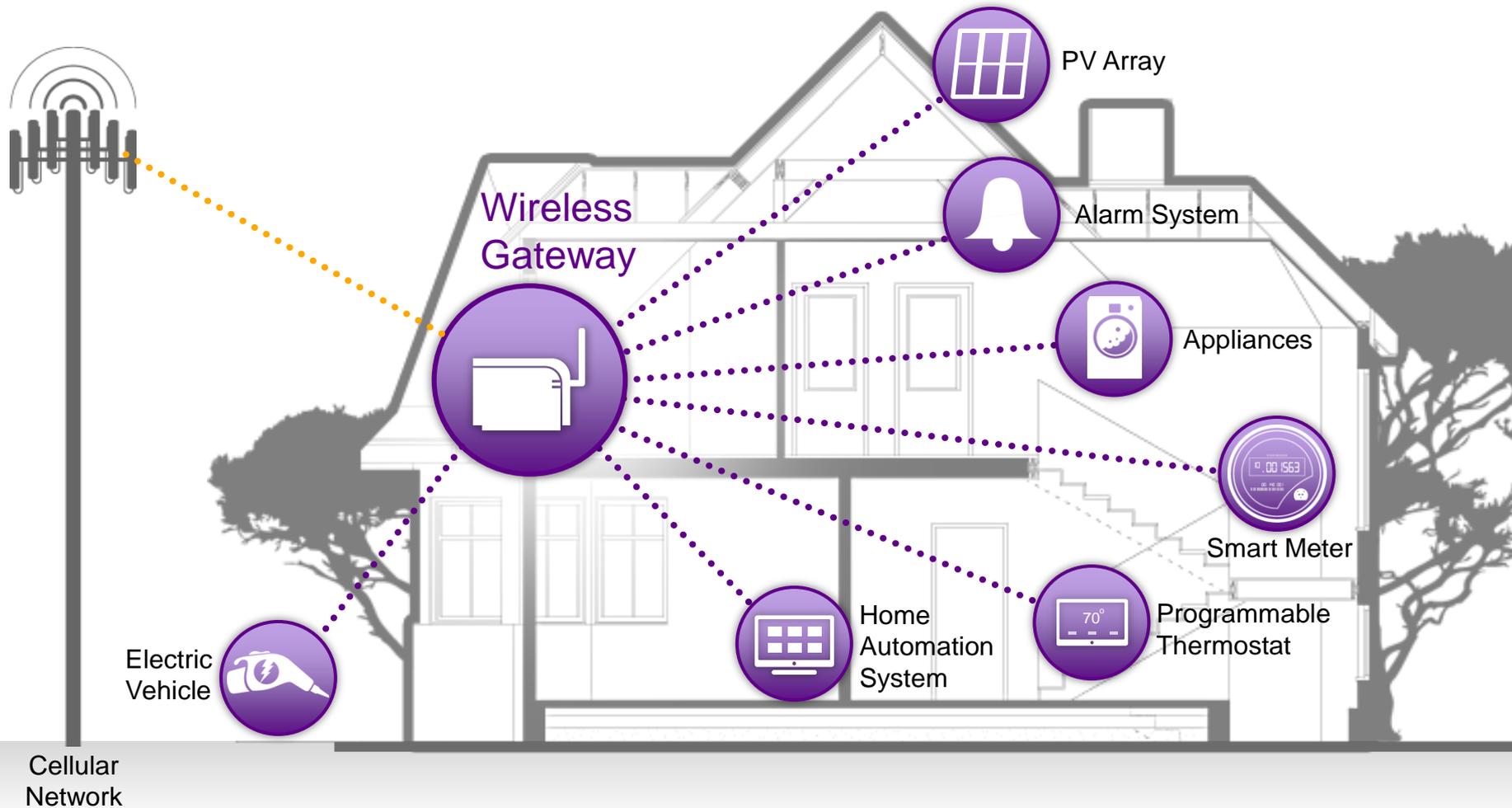
Cellular Connectivity Is a Solution of Choice ...

Cellular Provides Anytime, Anywhere Connectivity, Enabling Intelligent Solutions

- Reliable, ubiquitous managed networks
- Always-on connectivity
- Highly scalable
- Flexibility to support fixed and mobile applications
- High levels of security
- Based upon well-established standards
- Leverages extensive ecosystem



... That Complements Short-Range Connectivity

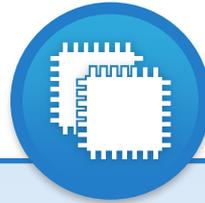


Qualcomm Offers Active Support to the Ecosystem



TECHNOLOGY EXPERTISE

- CDMA
- OFDMA
- Connectivity technologies
 - BT, 802.11n, BAN
- RF
- A-GPS
- Standards bodies
- Software development
- Engineering services



CHIPSET SOLUTIONS

- Mobile Station Modems (MSM)
- Single-Chip Solutions (QSC)
- Mobile Data Modems (MDM)
- Snapdragon (QSD)
- Gobi
- Femtocell Station Modem (FSM) Platform
- Internet of Everything Module (IEM) Design



SOFTWARE PLATFORMS

- Brew Mobile Platform (Brew MP)
- Open OS support
- SDKs
- APIs
- Developer Tools

Qualcomm has a broad array of technologies and capabilities that are helping to drive the Internet of Everything forward

Thank You