



Panel - Timing for the IoT

Wojciech Owczarek, ICE

Chris Roberts, Chronos

David Spencer, Semtech

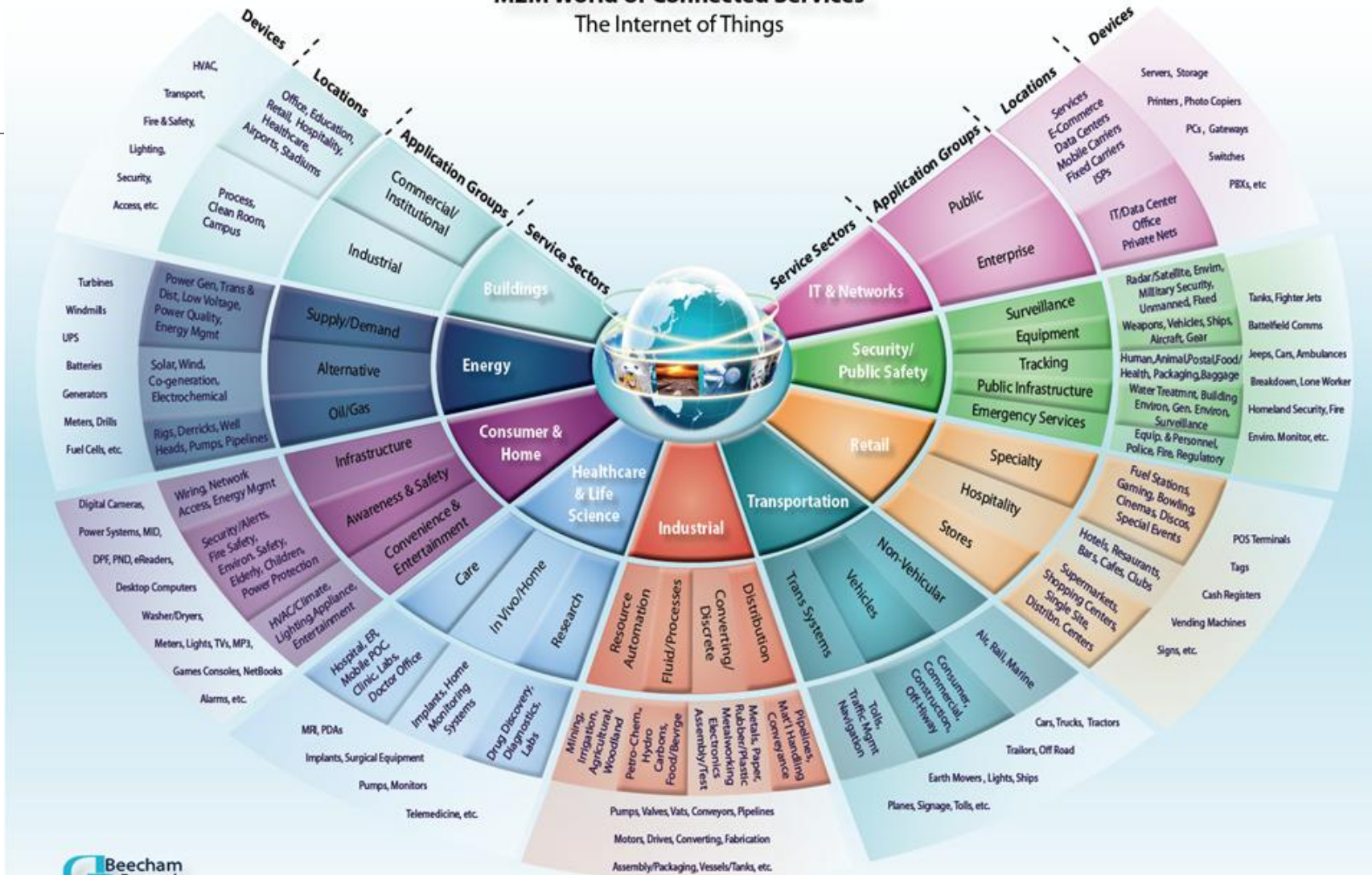
Kevin Stanton, Intel

Moderator: Anand Ram, Calnex

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M2M World of Connected Services

The Internet of Things



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COST OF SENSORS

\$1.30 → .60
AVG. COST
over the past 10 years.

COST OF BANDWIDTH

↓ 40x
over the past 10 years.

COST OF PROCESSING

↓ 60x
over the past 10 years.



SMARTPHONES

Smartphones are now becoming the personal gateway to the IoT.



WI-FI

With Wi-Fi coverage now ubiquitous, wireless connectivity is available for free or at a very low cost.

BIG DATA

As the IoT will by definition generate voluminous amounts of unstructured data, the availability of big data analytics is a key enabler.



SCALABILITY OF IPv6

IPv6 = 3.4×10^{38}
IP addresses

Internet Protocol (IP) addresses are the identification and location system for every computer on a network. IPv4, the fourth version of this protocol, allows for 4.3 billion addresses. **IPv6, the newest version, allows for an almost limitless amount.**

Timing for the Internet of Things

- What challenges has Enterprise faced in delivering high-precision timing and can IoT benefit from the learnings? – **Wojciech**
- How is the Power Industry looking to deliver accurate timing and how much of this is relevant to IoT? – **Chris**
- What are the considerations and concerns of using low-power radio networks for synchronization and time distribution, and how can we benefit from the features of such networks? – **David**
- A microsecond is great but can we do better? How could this benefit us? - **Kevin**