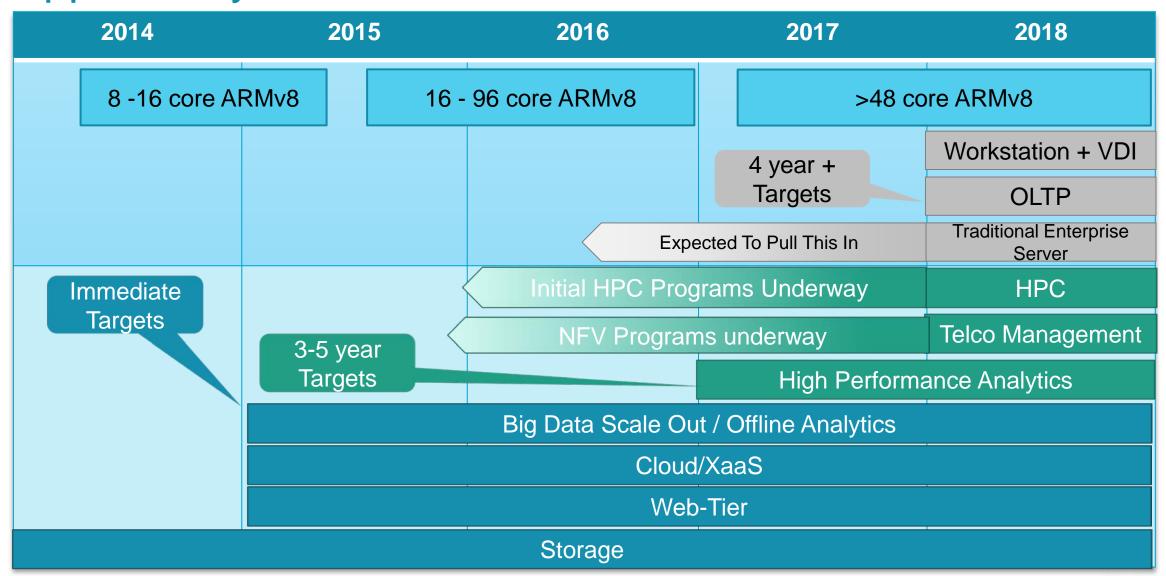
# #IoT=\$martwatches

VP Corporate Marketing and Strategic Alliances

<a href="mailto:lan.Ferguson@arm.com">lan.Ferguson@arm.com</a>
<a href="mailto:lan.Ferguson@arm.com">@fergie\_arm</a>

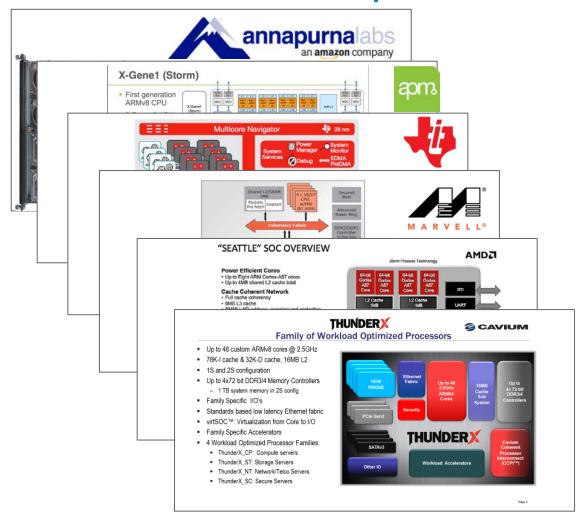


### Applicability of ARM for Server Workloads

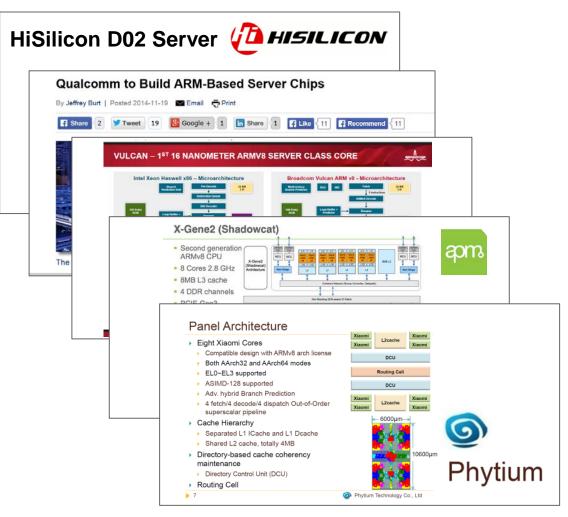




### ARM-based chips for more efficient servers



Shipping in 2015



....More 64-bit solutions on the horizon



### The Connected Fridge is Back......

CES: Would you pay \$5,000 for a Samsung smart fridge?

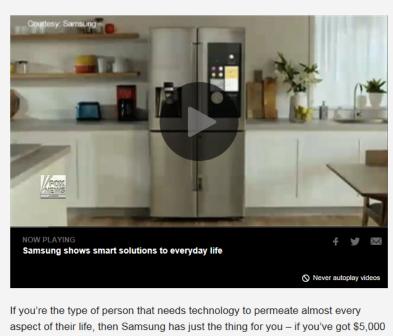
By Aalia Shaheed · Published January 06, 2016 · FoxNews.com











burning a hole in your pocket.

The show stealer of the technology giant's CES press conference Tuesday was



#### Our View On IoT



Value: Customer/Citizen Experience, Customization, Lifestyle

Security focused on identity and data usage/privacy

Value: Resource savings, employee productivity, logistics, marketing efficacy

Limited regulation, entrenched standards

Value: Productivity, asset utilization, innovation/revenue

Security AND safety

Industry driven regulations Government regulations

Home Automation
Wearables IVI

Retail Insights Activity Monitoring
Telemedicine
Vending Lighting
Digital Signage Traffic Cameras
Smart Parking Farming
Logistics

Robotics

Medical Devices

Mining

Utilities

Transportation



### Big Data Starts with Little Data

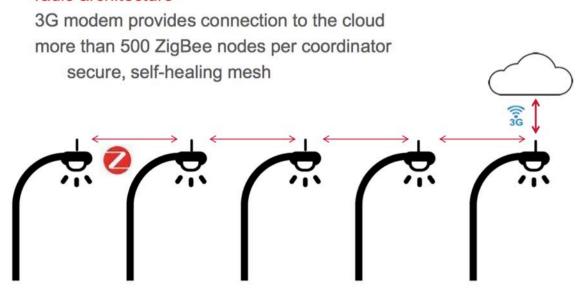




### When Is A Light Not A Light......

- 180,000+ in street lights across the UK
- 700k opportunity in Sao Paolo alone

#### radio architecture

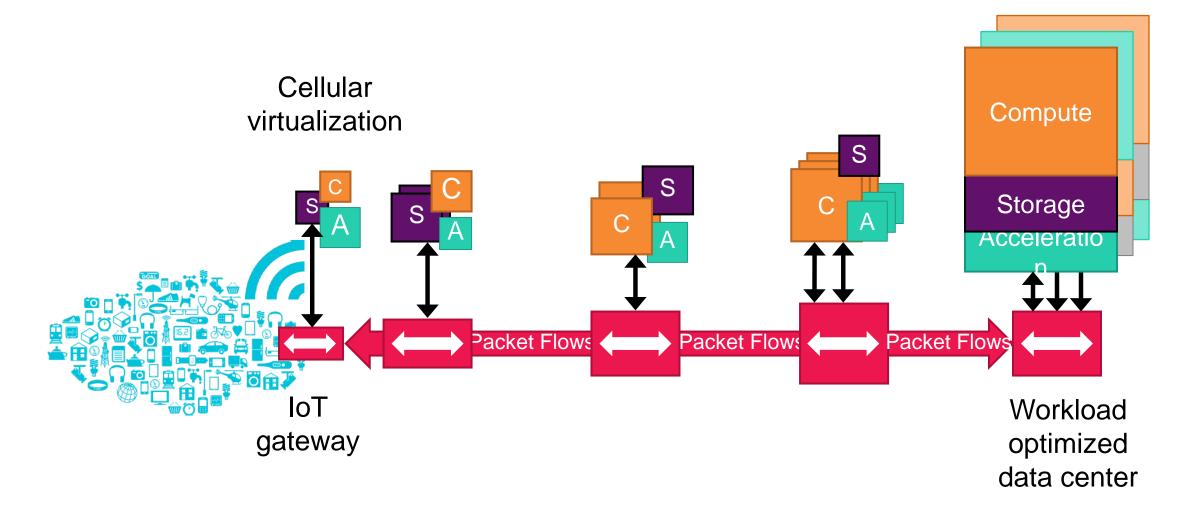


Longer term. the lightpole will become a gateway.....





#### The Cloud Has To Come to the Data....





### Reaching the next billion....







#### One Size Does Not fit All:





Heart Sounds: Using low cost smart X2 Biosy phones to remotely monitor cardiac signals Patches with accuracy of electronic stethoscope.

Trialing in South Africa

**X2 Biosystems**: Impact Sensing Skin Patches

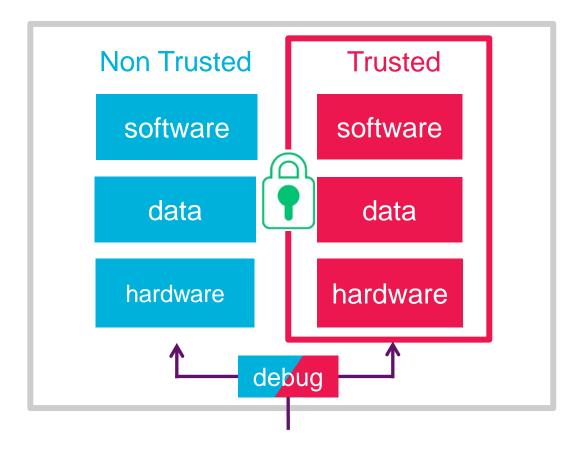


Kanega Watch: SmartWatch for seniors that requires no smartphone



### IoT Security Foundation with TrustZone

Isolates trusted software, data and hardware



Enables device integrity and system recovery

- Example use cases:
  - Protection of critical assets
  - Safe crypto implementations
  - Secure remote firmware update
  - Firmware IP protection
  - Secure debug



### Broad Software and Tool Ecosystem for IoT

WR Helix Java IoT Cloud Microsoft Services (AWS, Xively, Parse Linaro (Linux) etc) 3<sup>rd</sup> Party RTOS **IoTivity** Brillo/Weave Yocto **Android** Ubuntu JuJu

- Broad ecosystem support across OS, RTOS and languages
- Cloud connectivity services with all major cloud providers
- Open source community support



### Security Foundation for IoT



Lifecycle Security

mbed Device Server



Communication Security
Encryption, Authentication, OTA updates

mbed TLS, TrustZone CryptoCell



Device Integrity
Secure Identity, Software Identity,
Isolation, Tamper Detection

TrustZone, mbed OS, TrustZone CryptoCell, SecurCore



### 3 Personal Beliefs Of Hot Areas in 2020

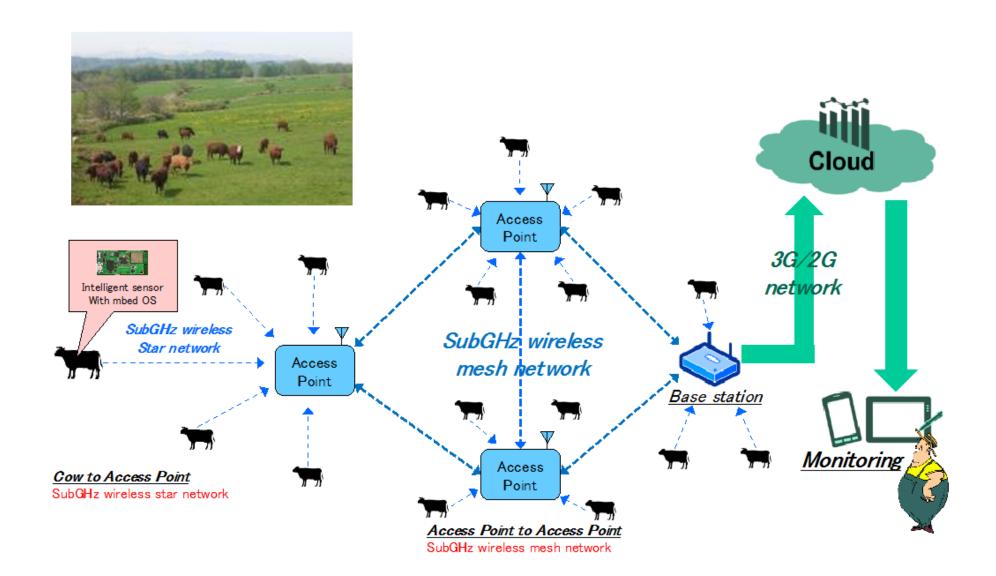




## Computer Vision/AR

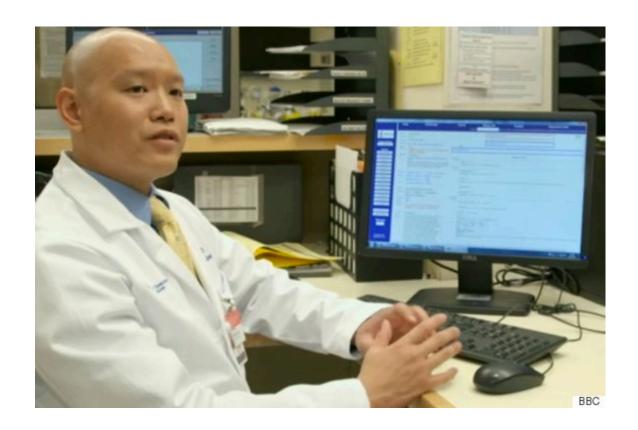


### Agriculture





#### Reason For Nervousness?



#### **Hospital Supercomputer In Boston Predicts Death With** Almost 96% Confidence

The Huffington Post UK | By Nitya Rajan 📈 🤟 🔥







Posted: 14/09/2015 15:57 BST Updated: 14/09/2015 16:59 BST



### Summary

 The growth in several consumer areas are slowing but innovation is alive and well elsewhere

- Infrastructure must be upgraded
  - Bringing the cloud to the data
- Customization is key

