

Empowering Your Home Realizing Efficiency, Comfort and Security

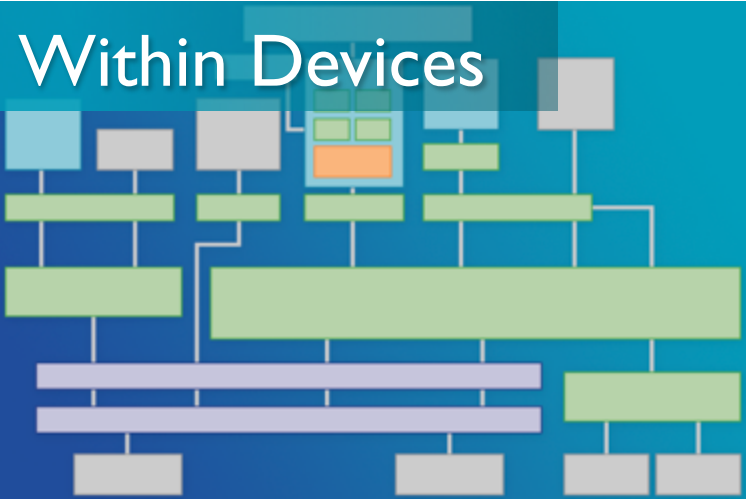
Little things are going to make a big difference

Bryan Lawrence
Segment Marketing
November 5th 2013

Smart Homes 2013 Cambridge
5 November 2013

www.hvm-uk.com/smarthomes

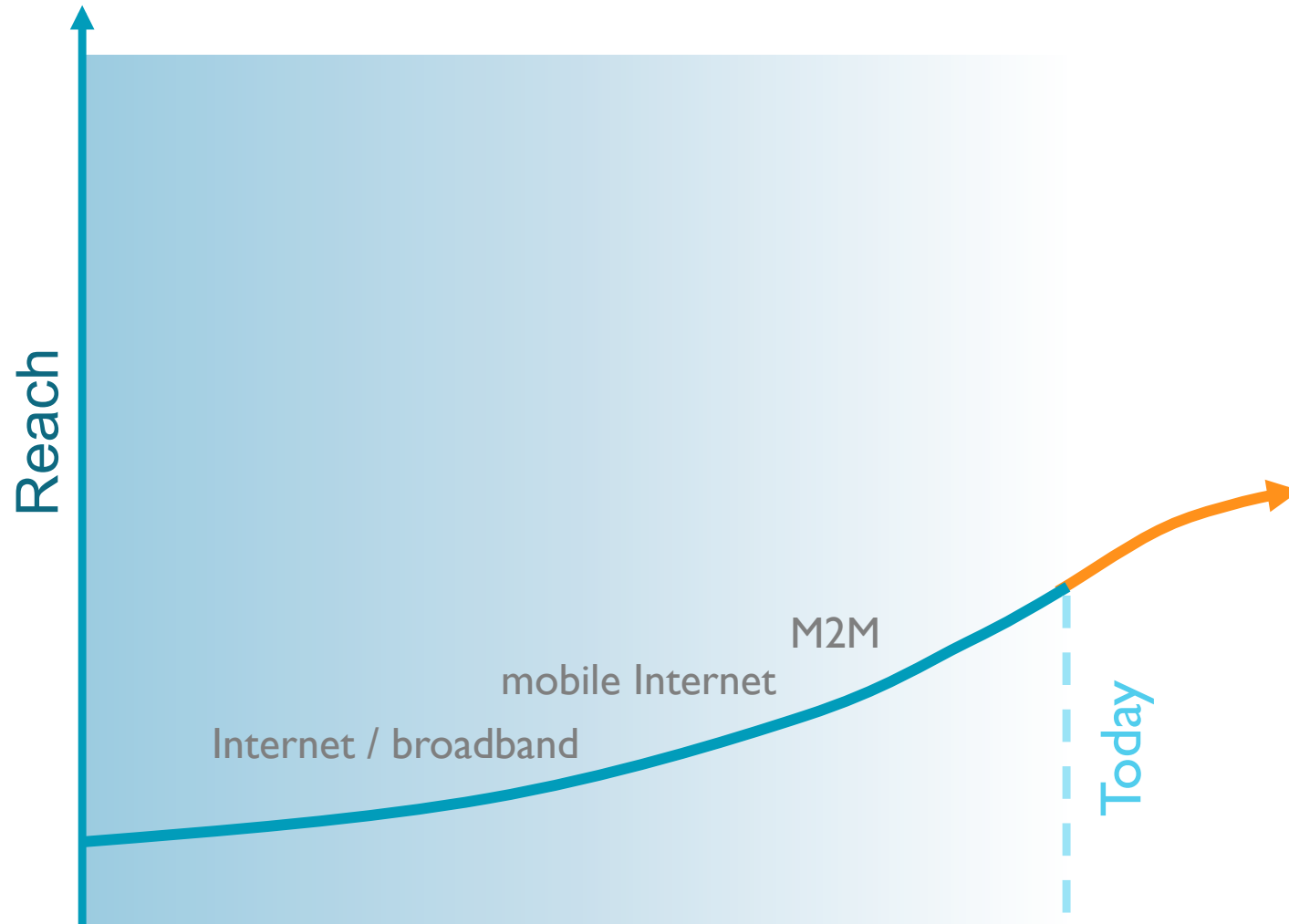
The IoT is Connecting Intelligence Everywhere



Gap



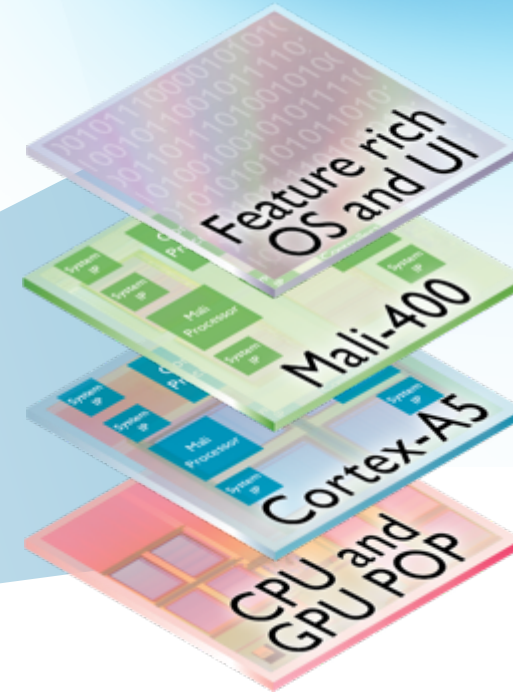
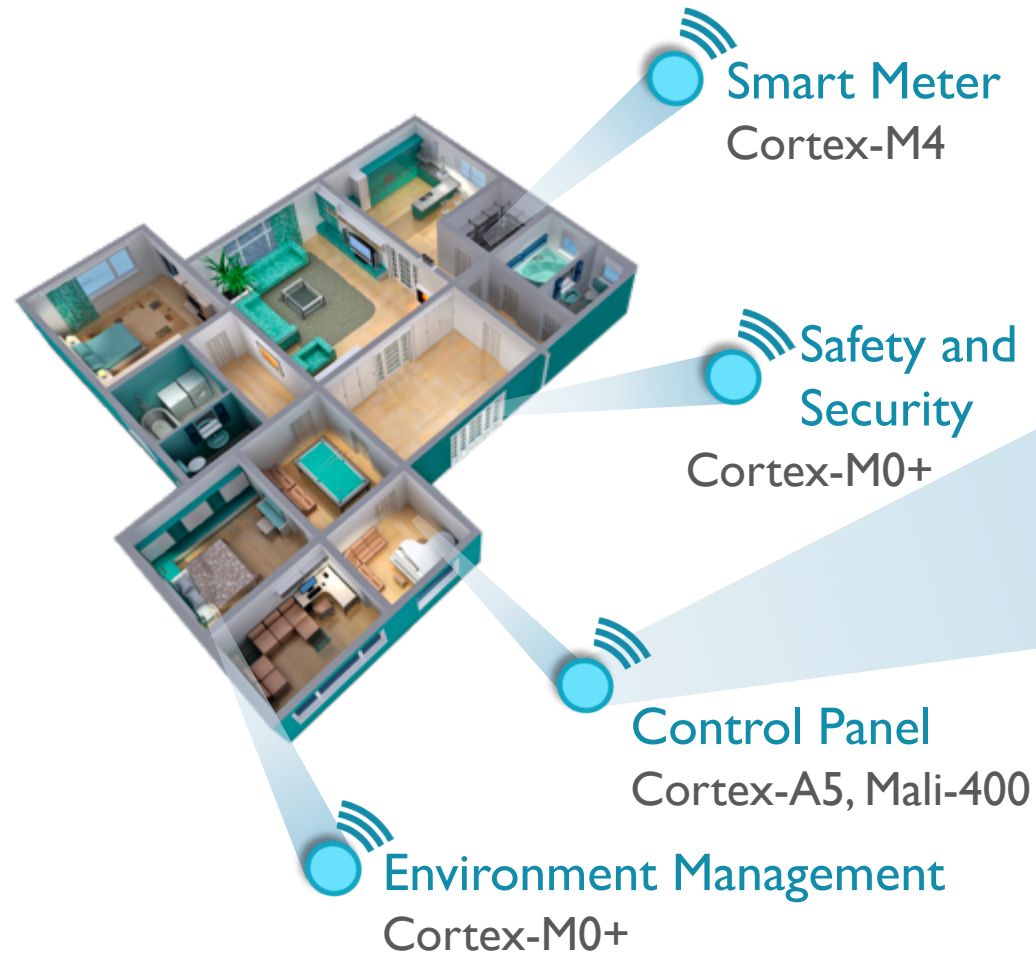
Internet of Things



The challenges

- Efficient nodes
- Infrastructure
- Interoperability – lack of standards
- Security
- Developer shortage
- Tools and ecosystem

Enabling Smarter Homes

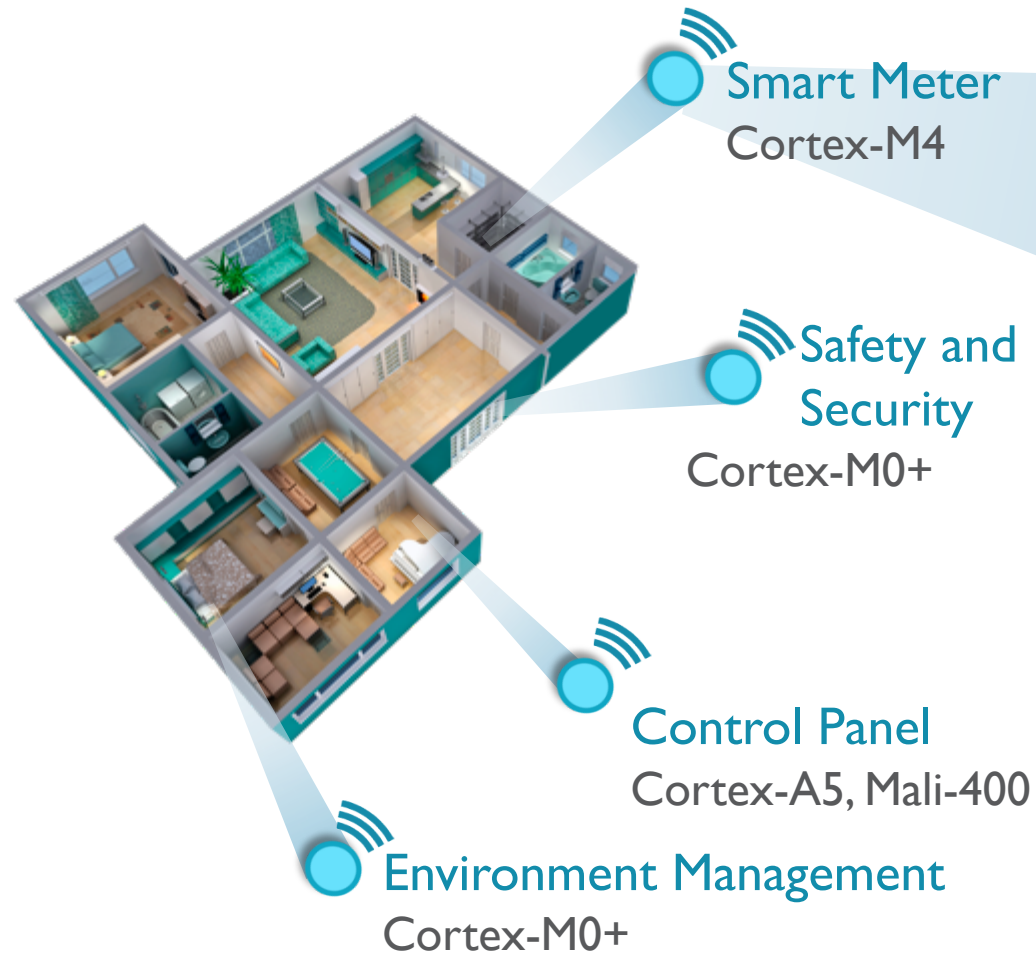


Most integrated building management HMI solution

Trends Intuitive technology

Challenges Low system and maintenance costs

Enabling Smarter Homes

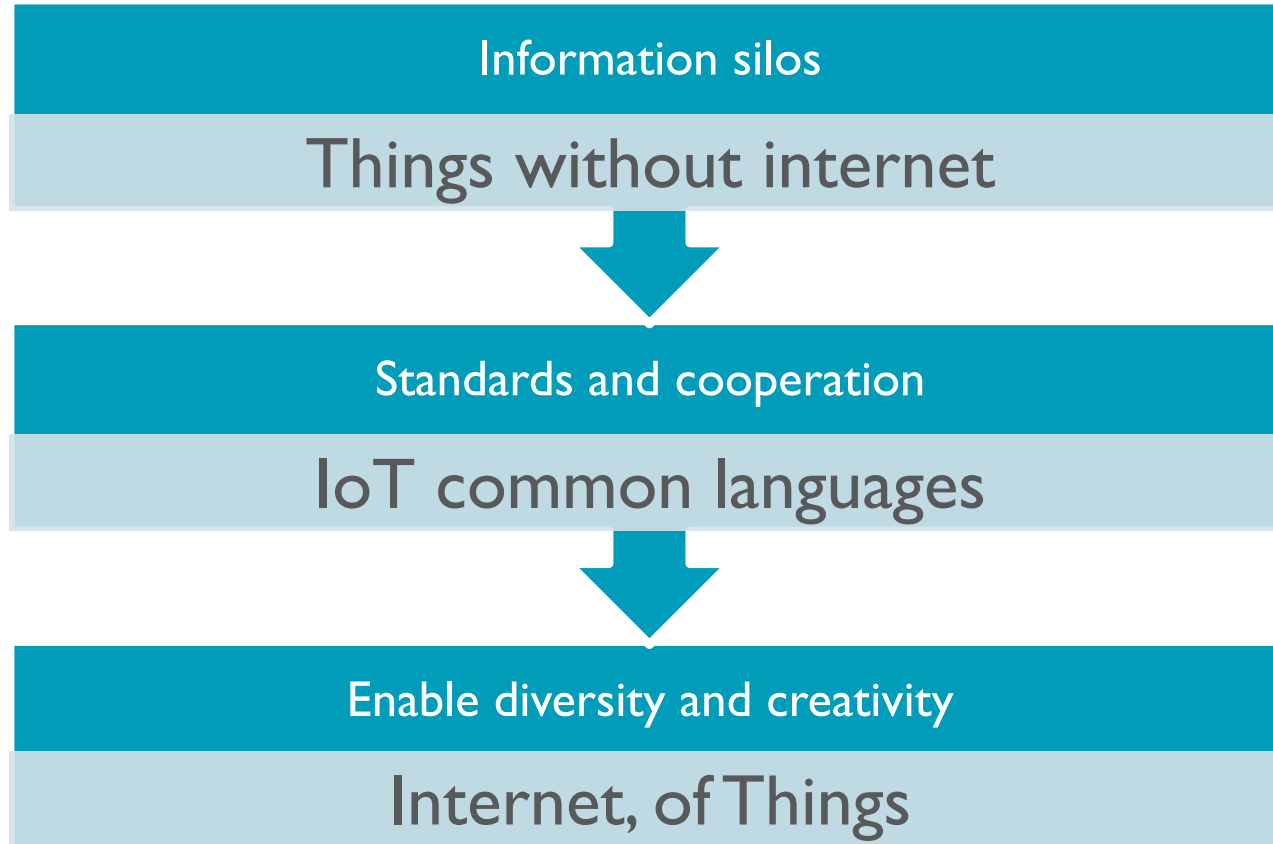


Most integrated building management HMI solution

Trends Intuitive technology

Challenges Low system and maintenance costs

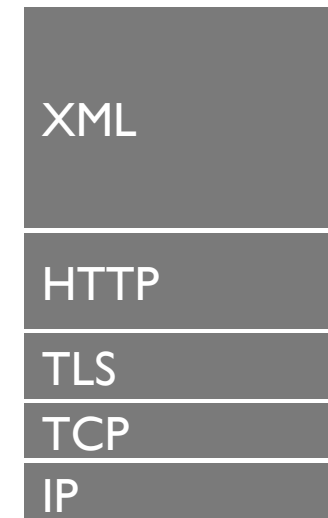
Obstacles: Interoperability



IoT standards

- **Scalable, secure, standards based**
 - Architected 6LoWPAN and CoAP standards
 - Key contributor to the IETF, ZigBee IP, ETSI and OMA
- **From the cloud to the tiniest of nodes**
 - Optimized firmware that can fit on Cortex-M devices
 - Cost-effective, energy efficient, secure
- **NanoService Client now accessible via mbed**
 - Enabling faster proliferation of open IoT standards

100s –
1000s of bytes



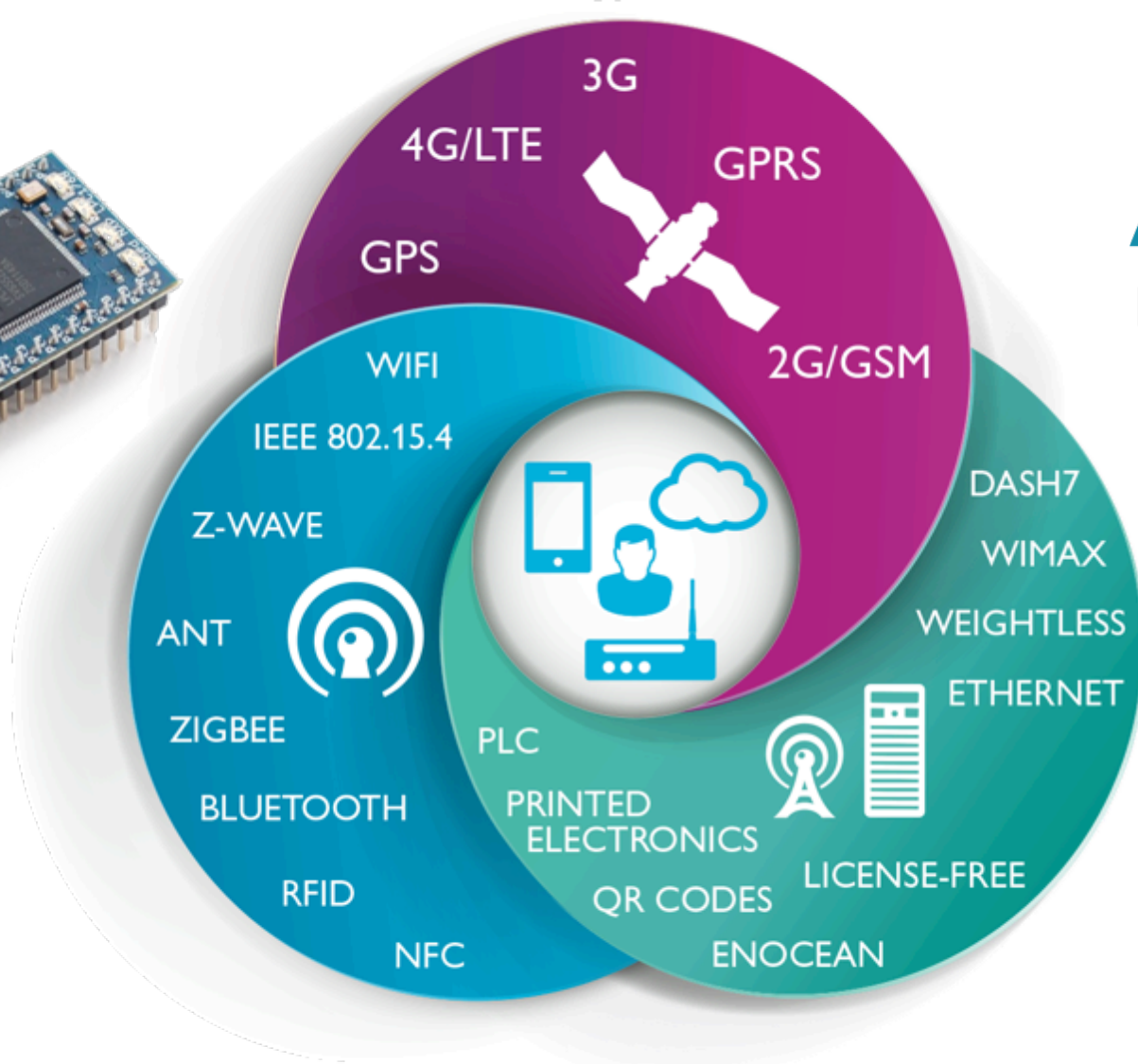
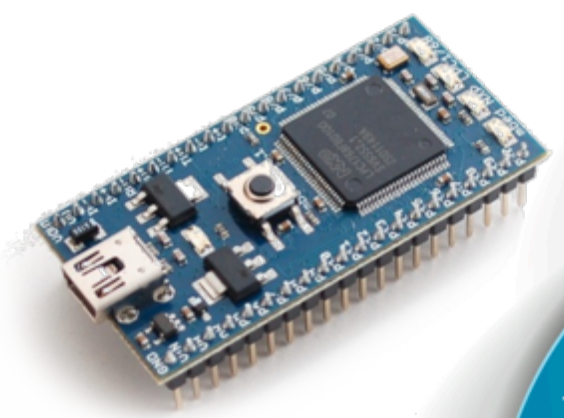
Web Services today

10s of bytes



Internet of Things

Enabling IoT



ARM[®] MBED[™]
IoT Device Development



ARM and Java span IoT

- ARM architectures have long been supported by Java
 - From servers, gateways and now microcontrollers
- ARM mbed to be used by Java ME to scale diverse embedded devices
 - ARM mbed lead partners Freescale working with ARM and Oracle to make this a reality
- ARM will donate our Sensinode CoAP protocol engine to OpenJDK to stimulate broad adoption

ARM[®]MBED[™]
IoT Device Development



ARM[®]

“...These [IoT] products become platforms for new business services, and with these additional services you can also generate new revenue streams. Either you do this yourself or somebody else will do it...”

Stefan Ferber, director for communities and partner networks for the Internet of Things and services, Bosch Software Innovations

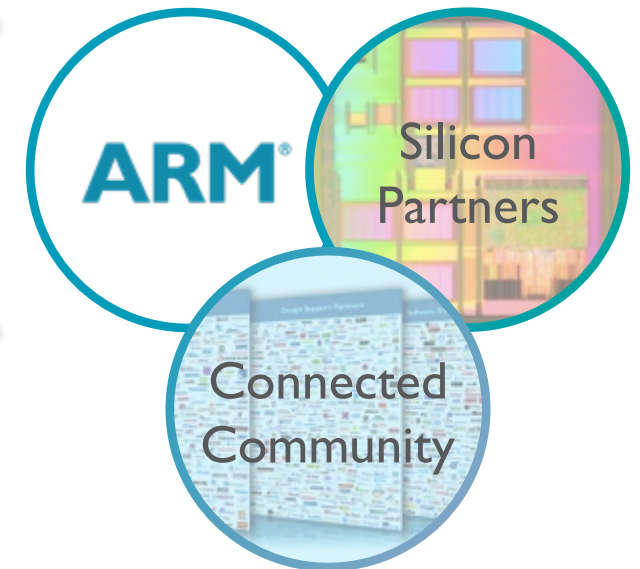
ARM Innovation Enables Opportunity

Massive opportunity of pervasive connectivity



Innovation driven by diversity,
built on standards

ARM ecosystem uniquely positioned to
tackle the challenges



END
Thank you