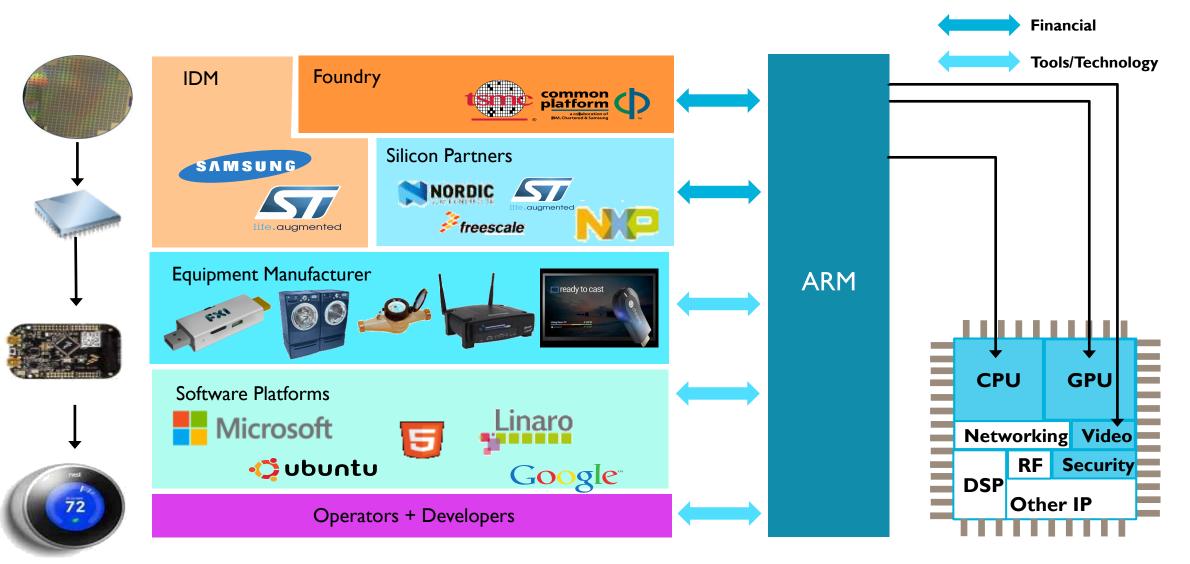
智能互联推动嵌入式系统创新

March 2015



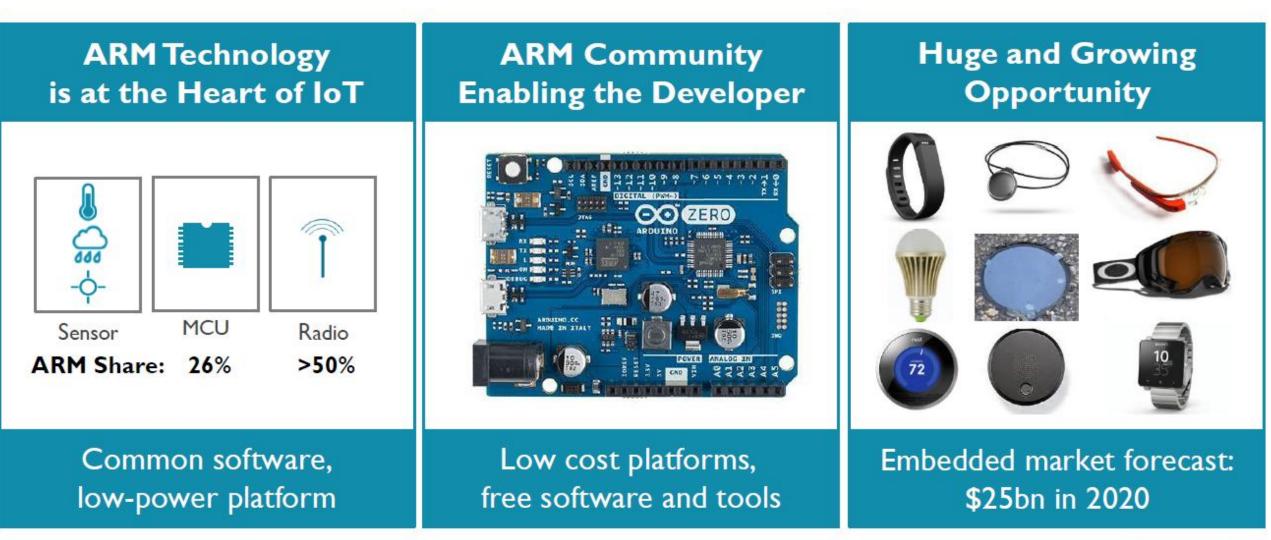
The Architecture for the Digital World®

ARM[®] is a Semiconductor IP Company





ARM's Opportunity in Embedded Intelligence





Functional Becomes Real Time Service



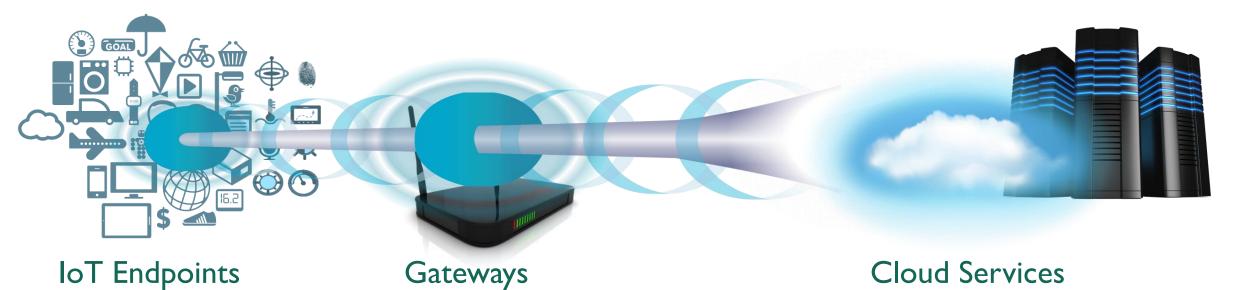
<page-header><page-header><page-header><image><image><image>

Data becomes a Service



Functional

Big Data begins with Little Data

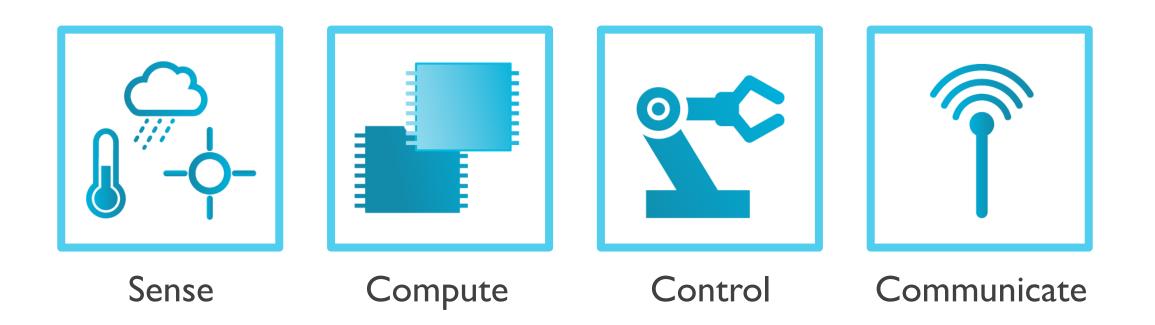


Data collection and control:

- Improved operational efficiency
- New services and applications
- New business models and revenue streams

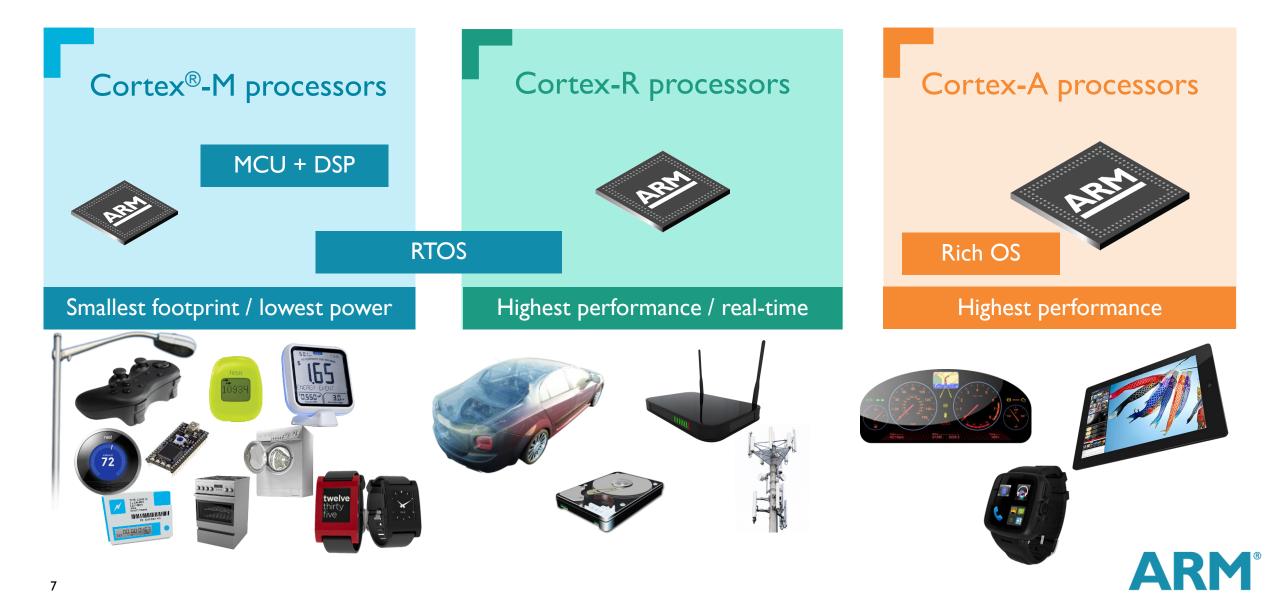


Building the Blocks for Success

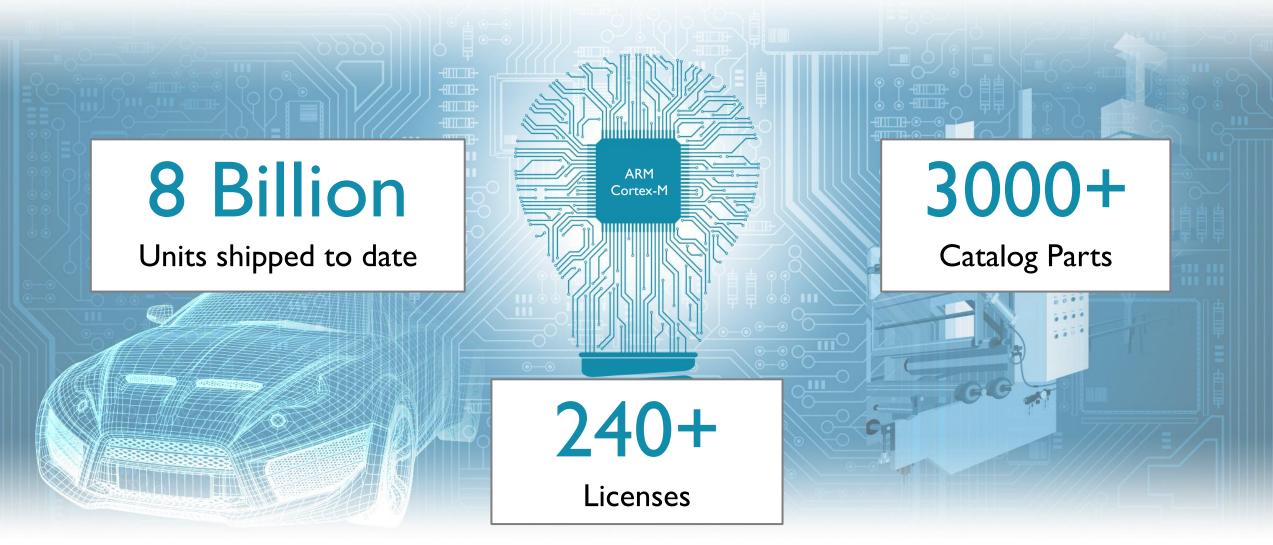




ARM Cortex Processors across the Embedded Market



ARM Cortex-M: Trusted Choice for Embedded Intelligence





ARM Cortex-M Processors – proven success



240+ licensees of Cortex-M processors

Over 3,000 Cortex-M based MCU types

Tens of thousands Cortex-M based applications





Utility Meters

Wearables



IR Fire Detectors







Energy Efficient Appliances

Intelligent Vending



· ele puil



ARM mbed IoT Device Platform





The Architecture for the Digital World®

The Internet of Things Today

Enormous potential

- "Tens of billions of new devices"
- ... but market growing slower than expected

Embedded, but different

- IoT devices are often "embedded" but can have different requirements, constraints and goals compared to conventional embedded systems
- Often very strict energy or resource constraints

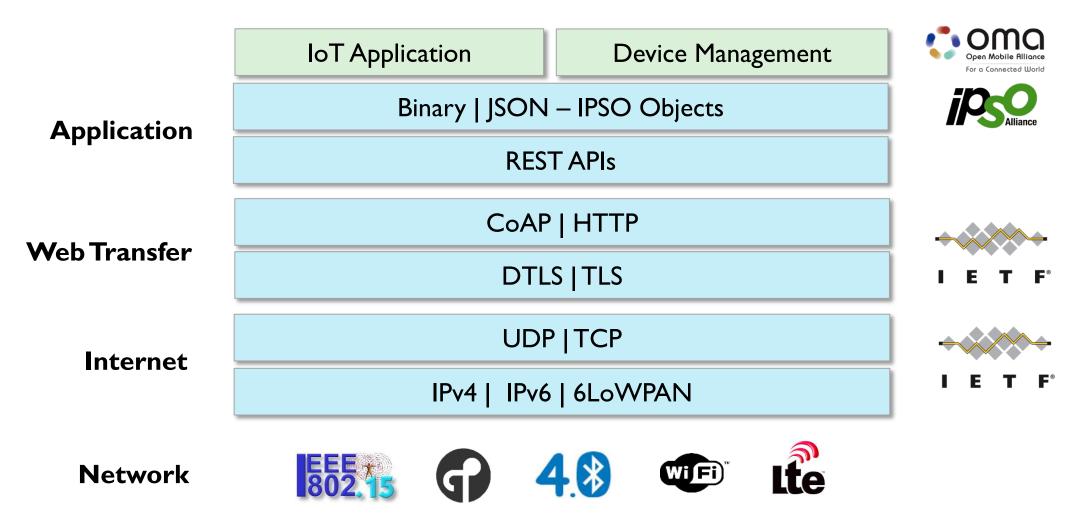
Complexity rapidly increasing

- Security, manageability, updates often underestimated
- More sophisticated hardware requires more software ... and vice versa!





The I in IoT: Web (and IP) Protocols to the Edge





ARM®mbed[™] IoT Device Platform





Security



Connectivity



Management



Efficiency



ARM[®]mbed[™]

IoT Device Platform

mbed Ecosystem

- Partners
- Developers
- Enabled Services
- Enabled Products

mbed Device Server

- Free and commercial versions
- Application data and device management
- Growth market access for cloud platforms
 and operators

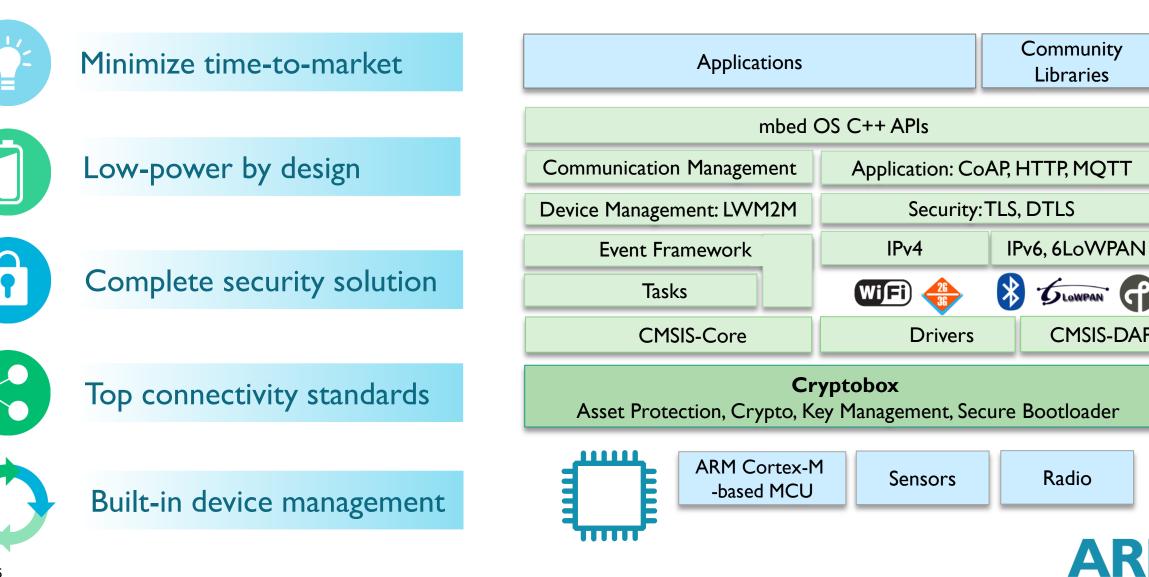
mbed OS

- Free for use on ARM architecture
 - Leading connectivity standards
 - Productivity, minimized costs
 - Built-in management
 - Security

ARM Cortex-M

-based MCU

What is mbed OS?



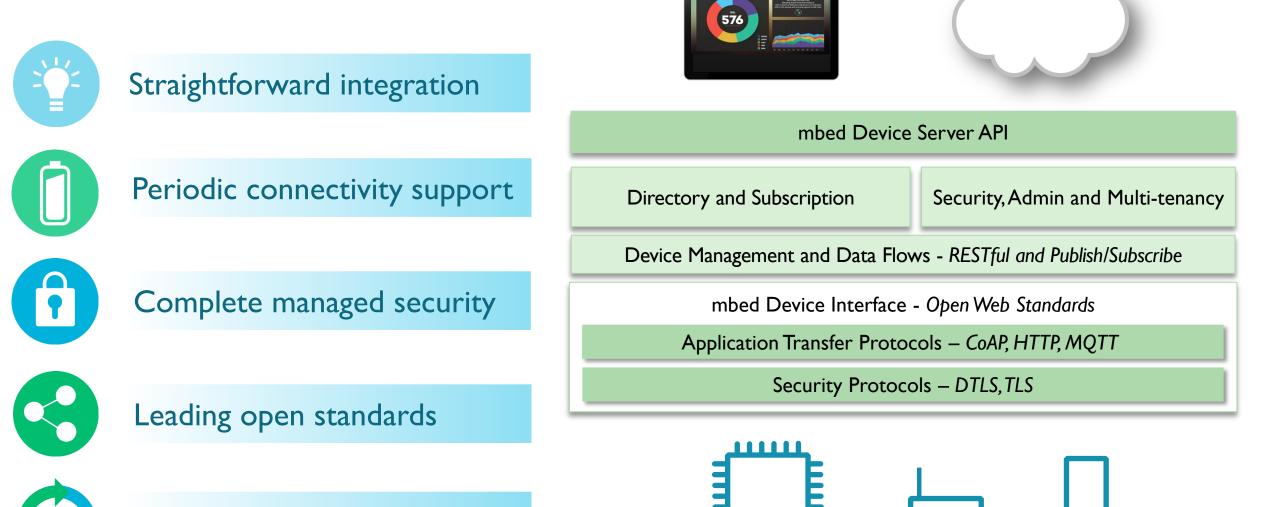
Libraries

GLOWPAN C

Radio

CMSIS-DAP

What is mbed Device Server



Lightweight management

What does it do?

- Handles constrained IoT devices:
 - Multi connectivity
 - Not always online (queuing)
 - Long latency
 - (Very) limited throughput
- Security
 - End to End
- RESTful API



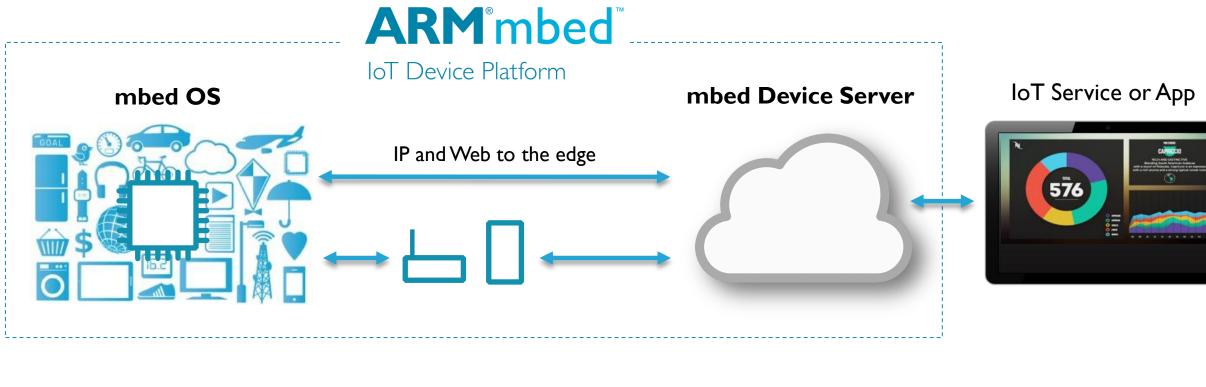
What it does not do:

- Store device data
- Analyze

Helps developers to create innovative IoT apps and services.



Little Data Enables Big Data



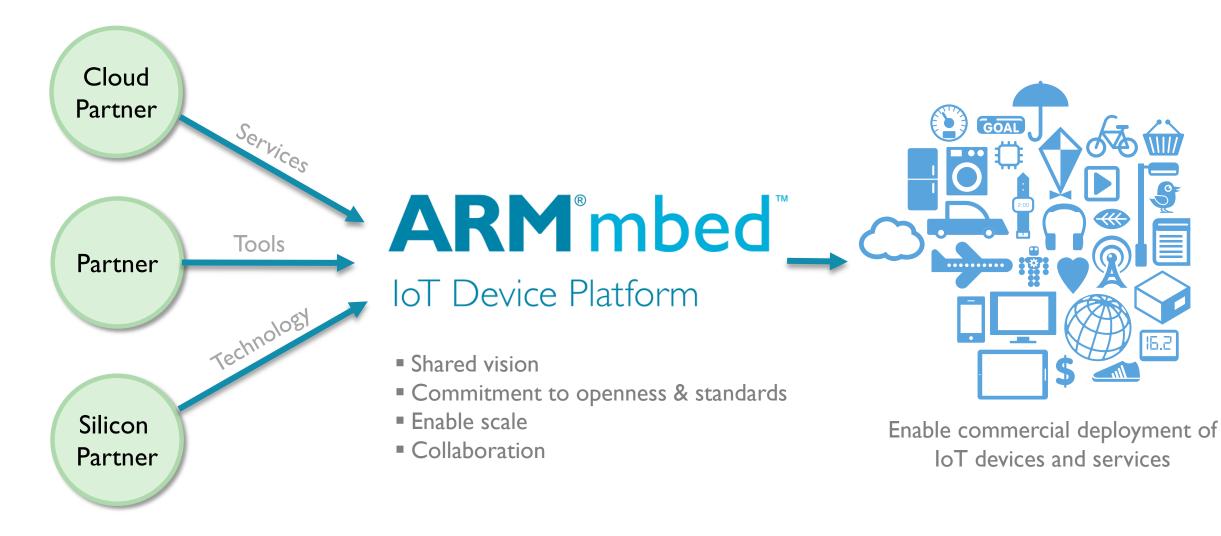
End-to-End Security, Web, Data Objects & Management

Little Data

BIG DATA



The mbed Partner Ecosystem





The new mbed Partner Ecosystem: Join Us!



ARM[®]







Together, let's drive the next embedded innovation









Next Generation ARM Connected Community (ACC)

ARM Connected Community					Co 😭 rature Alar Ian
htme	content	people		inka a span e	/ treats (i)
WILCOME TO OUB COMMUNITY		WHAT YOU CAN OD HERE			PLATURED PROPERTY.
Welcome to our Community		Put your community through its paces by trying out some of the things you can do here			Los Covey
		REGISTER	GET	ASK A	Crar Fuler
Whether you are an established developer	.	REGISTER	STARTE	D QUESTION	Data Dipler
APM patter or pol pring stands on APM an intrue poll-find size in the community to kneep you comming back to step independed hears, and and execute goversors.		Jon the community contribute	ts Queck guides to Dungs work		NAMEST PERMIT
		FEATURED CONTENT			pantelars
SUGGESTED PLACES		Some of our points of content you might like to check out			az)(
		進 Are You New To The ARM Connected Community1 - 副 中文社部内社 統1			
Embedded		a) Biog Radinects. Queck Linux Biol. User Name Selection and Heig Web Cycl: Available			Servera Pardar
		B ARM Added SC Benchmarking B 10 useful top to varie the fluiding part unit on the ARMS Consult-MA			
Find a Partner	3%	pocetati	and the second se		1 pm
		Name and Property and Pro-			R

- Launched at ARM TechCon, Oct 2013
- 中国用户可以使用中文社区

22

New Interactive Platform for ARM Developers

- Participation is FREE for everyone!
- Find relevant information for your project
 - Documents, blogs, forums, code stubs, images, tutorial videos, and ARM partner directory
- Easy navigation of the ARM ecosystem
 - Connect with ARM Developers, ARM Partners and ARM Experts
- Participate in thought leadership discussions

Register for Free at Community.ARM.com

Join Now



Community.ARM.com



Thank You

The trademarks featured in this presentation are registered and/or unregistered trademarks of ARM Limited (or its subsidiaries) in the EU and/or elsewhere. All rights reserved. Any other marks featured may be trademarks of their respective owners

