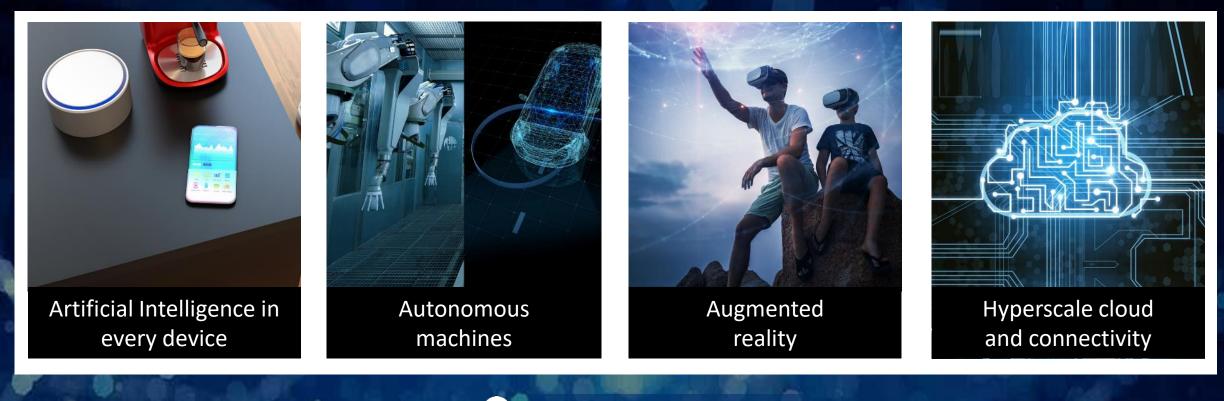


Arm Holdings Q3 2017 Roadshow Slides





Technology trends that will redefine all industries



Security and Privacy



Arm defines the technology that will redefine all industries

	Mobile and Consumer	Networking and Servers	Automotive and Robotics	Internet of Things
Artificial Intelligence in every device	\checkmark	\checkmark		
Autonomous machines				
Augmented reality	\checkmark			
Hyperscale cloud and connectivity		\checkmark		
Security and Privacy	\checkmark	\checkmark		

Arm introduction

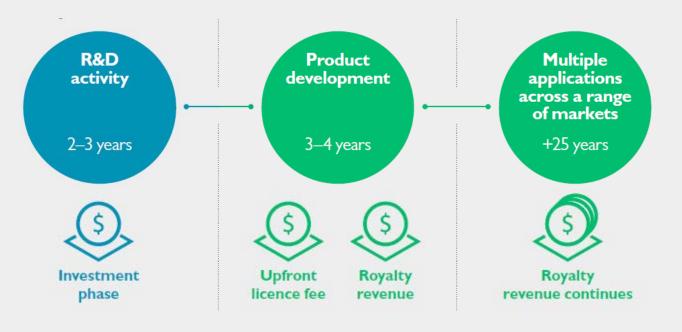
Global leader in technology licensing

• R&D outsourcing for semiconductor companies

Innovative business model

- Upfront licence fee flexible licensing models
- Ongoing royalties on partner sales
- Technology reused across multiple applications

Long-term, secular growth markets



>1,550 licences
Growing by >100
every year
>500 potential
royalty payers

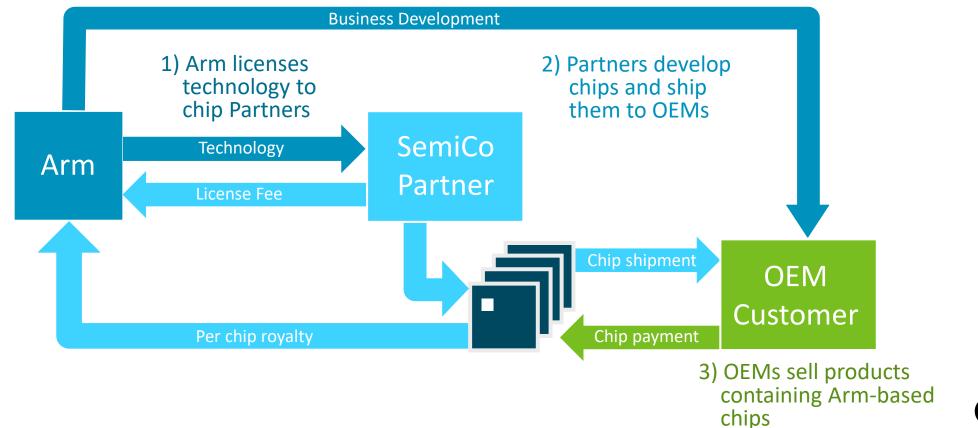
>20 bn Arm-based chips shipped in past year

~15% CAGR over previous 5 years

Arm's business model

Arm develops technology that is licensed to semiconductor companies

Arm receives an upfront license fee and a royalty on every chip that contains its technology





Arm's strategy

Maintain or gain share in long-term growth markets

• From mobile phones to networking infrastructure and servers to embedded smart devices and automotive

Increase value of Arm technology per smart device

- Invest in developing more advanced processors with higher royalty rates
- Physical IP and multimedia IP further increase Arm's value per chip

Explore and exploit new opportunities in emerging applications created by the Internet of Things

Invest to create a sustainable business, fit for the long term

• Create superior returns by developing new technology that will deliver increased profits and cash generation in the future



Arm's main growth markets

Application Processors



- Smartphones, tablets and laptops
- Apps processor, modem, connectivity, touchscreen and image sensors
- Growth coming from higher-value Arm technology such as Arm v8-A, octa core, multimedia

Networking & Servers



- Base stations, routers, switches, and servers for cloud and data centres
- Networks evolve to cope with increased data at lower latency: virtualisation, integration and programmability
- Most major chip vendors have announced Arm-based products

Embedded Markets



- Automotive, white-goods, wearables, smart devices in industrial and utilities
- Microcontrollers, smartcards, embedded connectivity chips
- 200 companies have licenced Arm processors for use in embedded intelligent devices

History of Arm

Joint venture between Acorn Computers and Apple





1990

Designed into first mobile phones and then smartphones



1993 onwards

Now all electronic devices can use smart Arm technology



Today

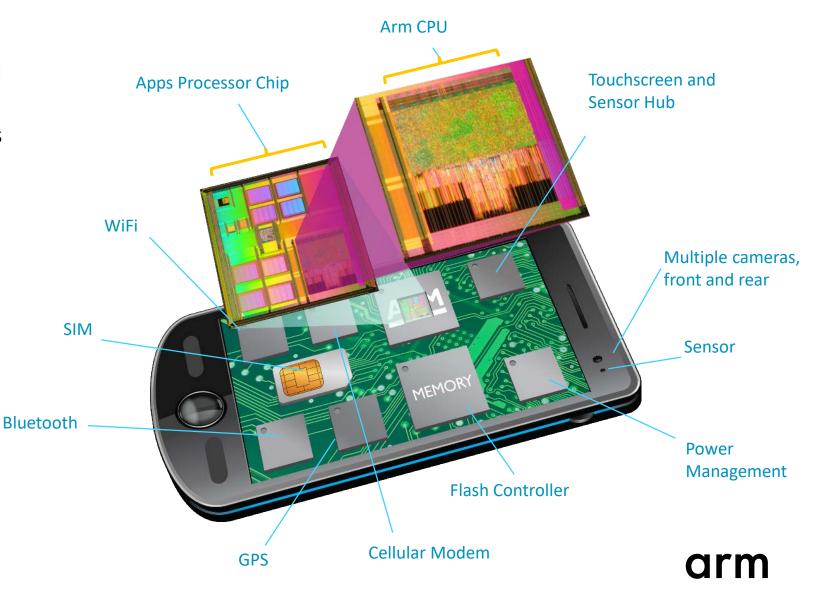
arm

Smart devices contain many Arm processors

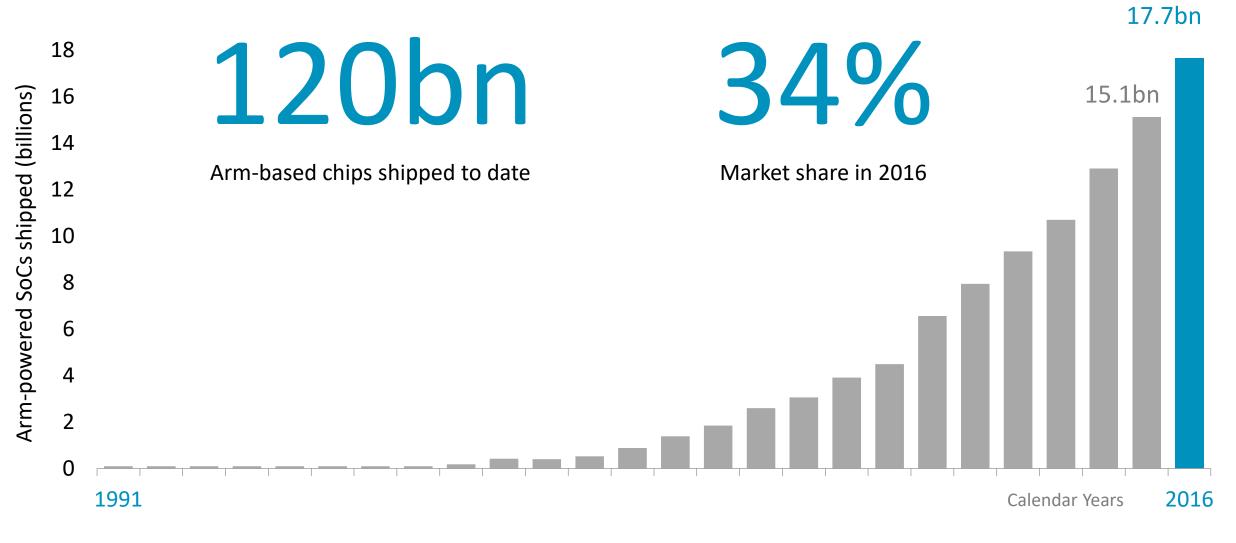
Applications Processor chips can contain multiple Arm technologies

- Arm v8-A processor for OS and apps
- Cortex-R controller for modem
- Cortex-M controllers for peripherals
- Arm Mali multimedia processors: GPU, video, display, camera, etc.
- Arm physical IP

When new functions are added to smartphones it creates opportunity for new Arm IP







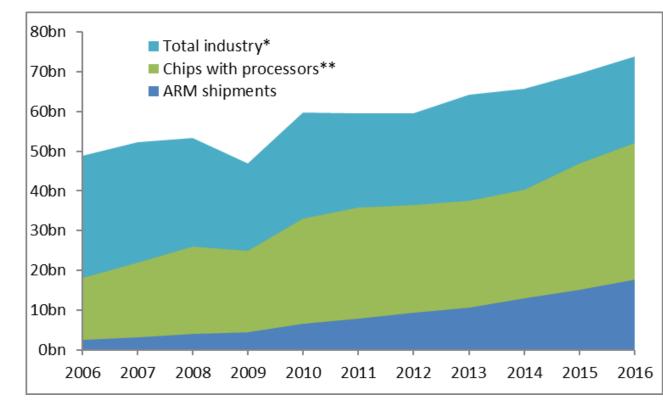


Arm's opportunity continues to broaden

Semiconductor industry continues to grow: 4% by volume, 1% by value over past five years

Proportion of chips with processors is increasing: 70% in 2016

Arm is gaining share within the "chips with processors" segment of the industry: 34% in 2016



* Data source: WSTS, March 2017 and Arm, Industry volume excluding analog and memory

** Arm estimates

Calendar years

From revenu	ie to p	orofit	S	Over 95% of revenues earned in US dollars
FY 2016 Revenues Licensing Royalty Software and Services	\$m 601 974	£m 437 751	%revs 34% 59% ← 7%	Royalties are a growing proportion of revenues
Total	114 1,689	83 1,271	100%	Cost increase as Arm accelerates investment in R&D for future product developments
Costs (£m) Adjusted EBITDA (£m)		667 604	<ا د	10% move in \$/£ impacts profits by ~15% (forex impacts £ revenues <i>and</i> costs)
Operating Margin		48%	<	Operating margins are lower than in recent periods as investments grow faster than
Other expenses (£m)		292	←	revenues
IFRS EBIT (£m)		312		Excludes amortisation of intangibles related to the acquisition of Arm by SoftBank



Qtr. ending December 2017 – Financial summary

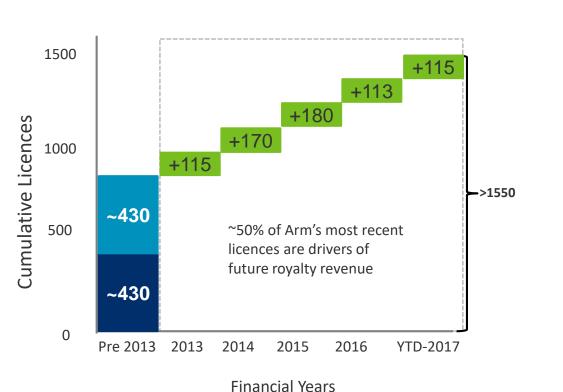
Revenues (\$m)	Q3 2016	Q3 2017	Growth	Licensing can fluctuate quarter to quarter
Licensing	229	190	-17%	Q1 up 22%; Q2 down 17%; Q3 up 54% seq.
Royalty	248	297	20%	
Software and Services	31	33	6%	Royalty revenue growth driven by market
Total (\$m)	508	520	2%	share gains and increasing royalty per chip
Revenues (£m)	392	390	-1%	Nearly 100% of Arm's revenues are in USD
COGS (£m)	12	21	75%	40% of costs are in USD and 40% in GBP
R&D (£m)	92	154	67%	
SG&A (£m)	72	122	69%	25% increase in total headcount
Costs (£m)	176	297	69%	New remuneration schemes post acquisition
Adjusted EBITDA (£m)	216	93	-57%	Currency fluctuations lead to mark-to-market
				revaluation of long-term contracts
Depreciation & amortisation	13	17	31%	
Other operating expenses (£m)	-11	34	-	YTD IFRS EBIT margin 16% excluding impact
IFRS EBIT (£m)	214	42	-80%	<pre>of exchange rate fluctuations</pre>

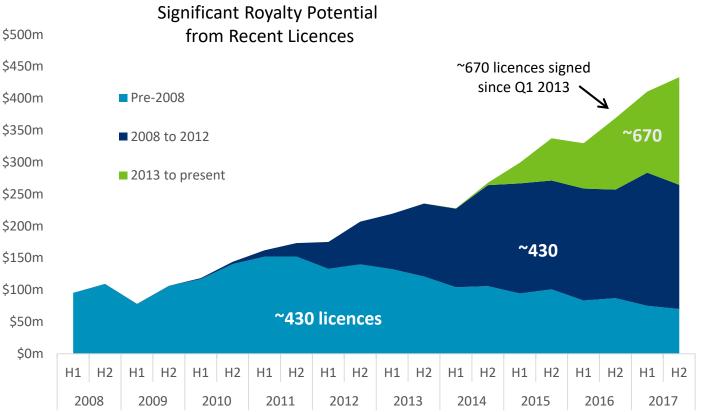
arm

Licensing enables future royalties

Arm signed 115 licences YTD 2017

Arm's current royalty revenues are derived from licences signed many years ago



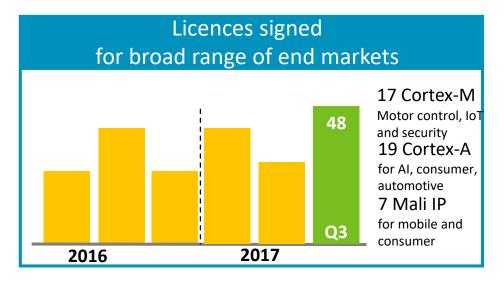


Growing base yields royalty revenues over long period

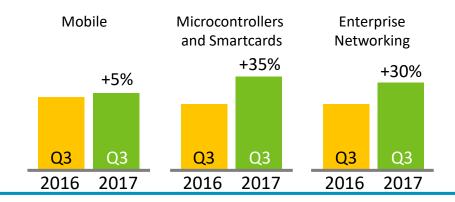
14 © Arm 2018

Calendar years

Qtr. ending December 2017^{*} – Progress against strategy



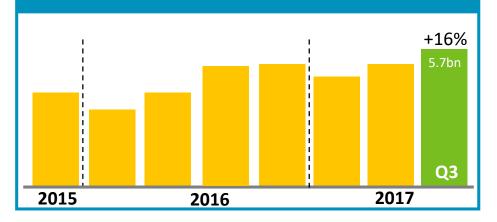
Key market performance (growth in reported royalty units)



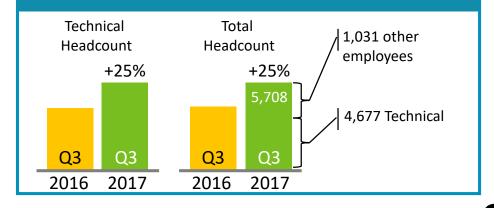
15 © Arm 2018

* SoftBank's financial year runs from April 01 to March 31.

Reported Royalty Units Growing

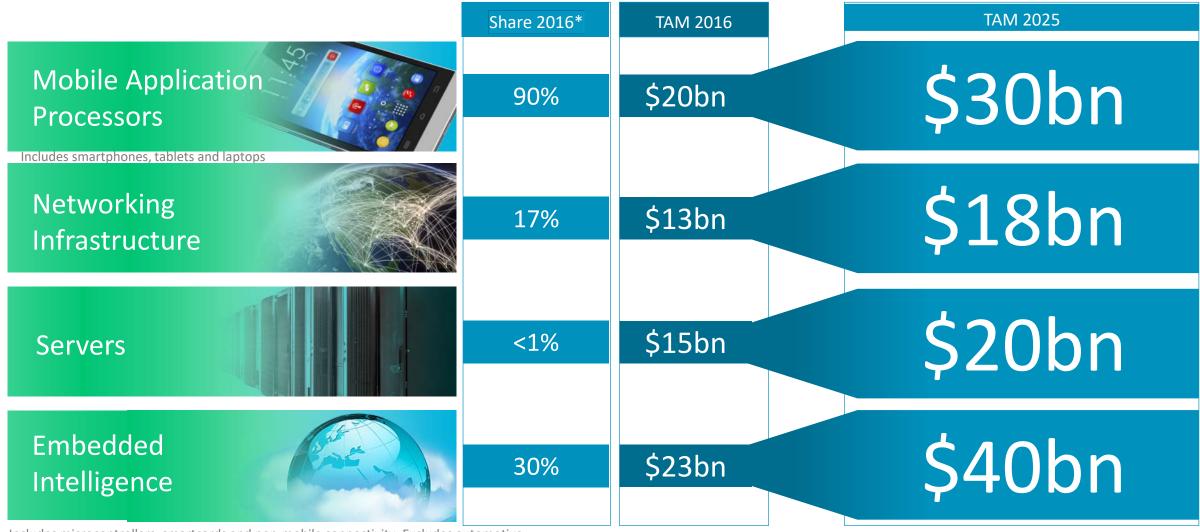


Investing in Future Technology



arm

Arm's expanding opportunity



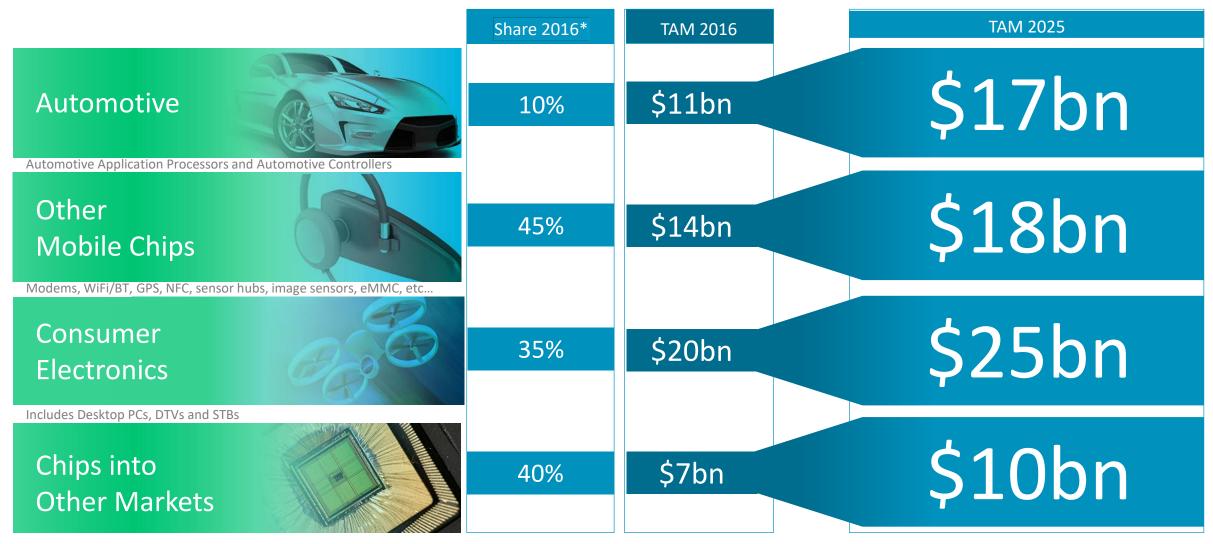
Includes microcontrollers, smartcards and non-mobile connectivity. Excludes automotive

16 © Arm 2018

* 2016 Arm Market Share by Volume

+ Total Available Market (TAM)

Arm's expanding opportunity



* 2016 Arm Market Share by Volume

arm

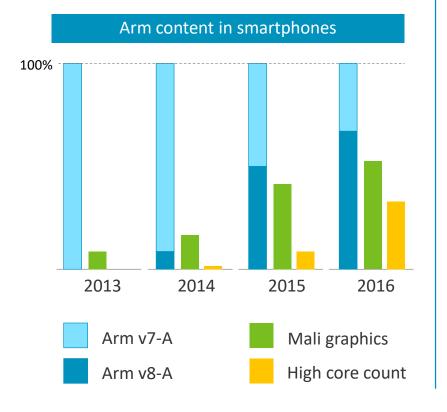
⁺ Total Available Market (TAM)

Arm's growth opportunity

Arm's opportunity in mobile and consumer

Continued growth from advanced technology and new form factors

Growth has been driven by advanced Arm technologies



Consumers pay a premium for performance and features



\$60 of Arm-addressable chips in the latest high-end smartphones

Investment in smartphones has led to new form factors

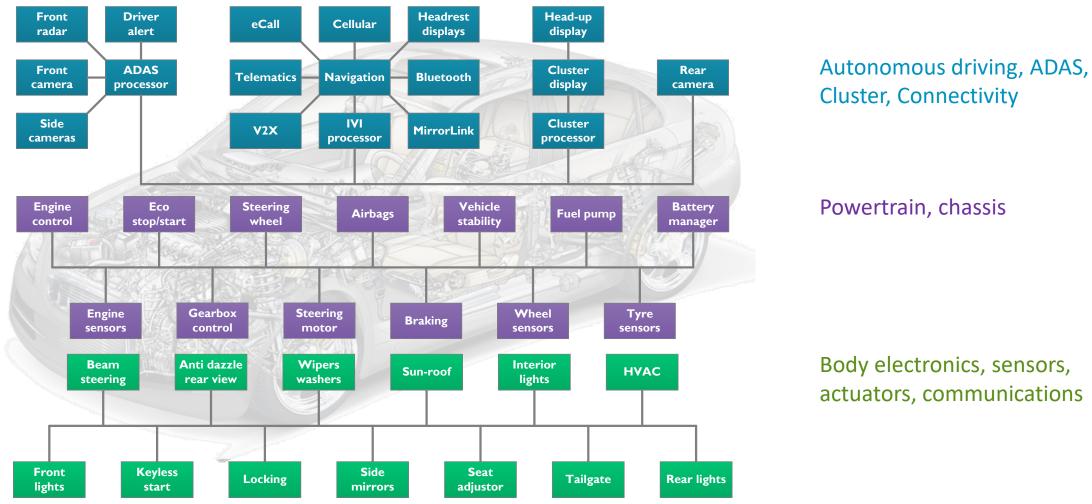






Arm's opportunity in automotive

Functional safety, consolidation, partitioning, performance, power, cost



Arm's opportunity in servers

Targeting 25% share (~1% share today)

Arm processors are suitable for >50% of data centre workloads

Microsoft has ported the core components of Windows Server onto Arm



- Search and Indexing
- High-performance storage
- Machine learning and big data
- Web servers, database servers
- Email, PaaS services

Arm v8-A selected for High Performance Computing



Fujitsu and RIKEN select Arm v8-A for the Post-K supercomputer



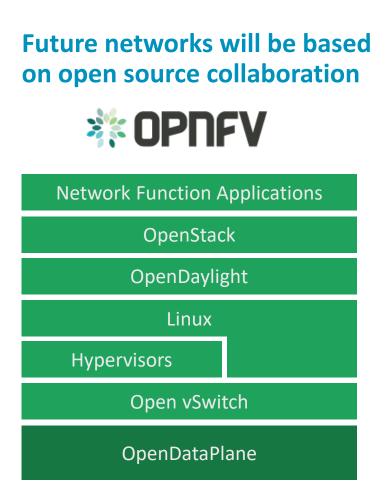
Now shipping into enterprise applications

Arm v8-A server chips are shipping in volume into storage appliances.



Arm's opportunity in networking

Targeting >50% share of chips in next-generation networks



Networking software is being optimised for Arm-based chips



Accelerating data comms from server to server



"When you offload to hardware, you run roughly a tenth the latency, a tenth the power, a tenth the cost. Here's some great news: we're in the semiconductor business!"

James Hamilton, VP and Distinguished Engineer, AWS

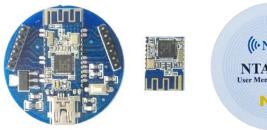


Arm's growth opportunity

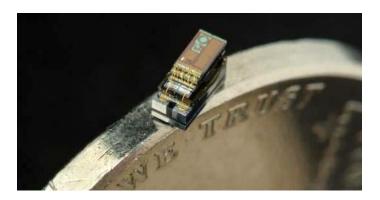
Arm's opportunity in IoT – silicon IP

The architecture of choice for IoT developers

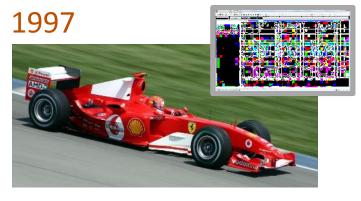
Cortex-M processors enable secure, low-cost IoT devices



((* NFC •)) NTAG 203 User Memory 144 bytes

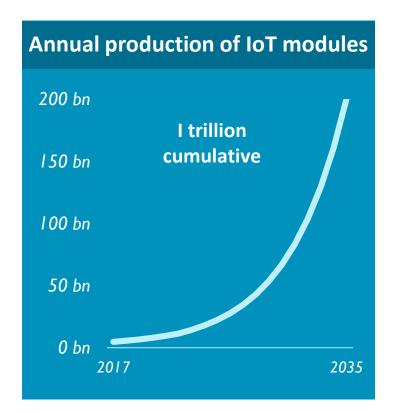


High-value tech is now available at consumer price points





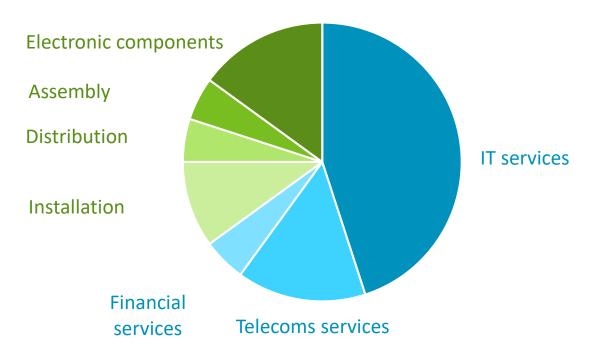
Every thing will be connected



Arm's opportunity in IoT – software and services

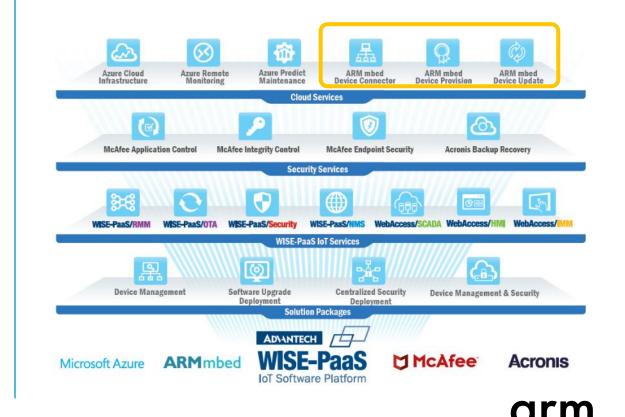
Investing to create new revenue streams

Arm forecasts a \$1 trillion TAM for IoT technology in 2035



The TAM refers to IoT technology (electronics, software, services) only, it excludes the value of the 'things' that contain the IoT modules

Arm's IoT platform is being integrated into OEM lifetime management services



Artificial intelligence in every device

Learning in the cloud, inference at the edge

Mobile

IoT

Automotive





Home, surveillance & analytics



Robotics



VR/MR



Drones



Shipping & logistics



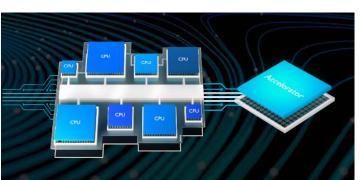
Machine learning and computer vision

The key workloads for intelligent computers

Widely-available software tools give developers access to ML



Optimise for performance, cost and programmability

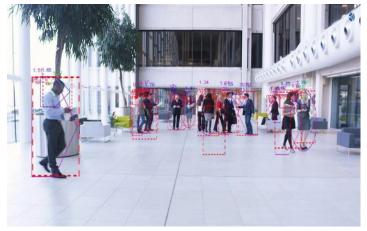


More than **50x AI performance** boost on the CPU in the next 3-5 years

arm DynamlQ

The latest Arm v8-A CPUs implement new instructions for ML calculations, and increase the memory bandwidth between CPUs and accelerators.

Stable algorithms can be hardwired into accelerators



arm COMPUTER VISION

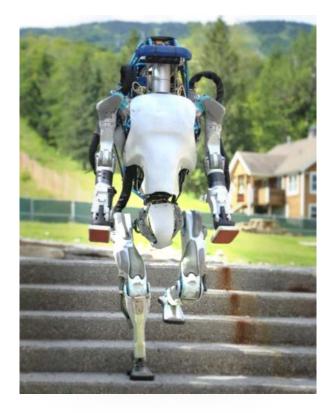
arm

Arm's silicon IP for computer vision identifies objects in moving images. It is smaller and more power efficient than equivalent software implementations.

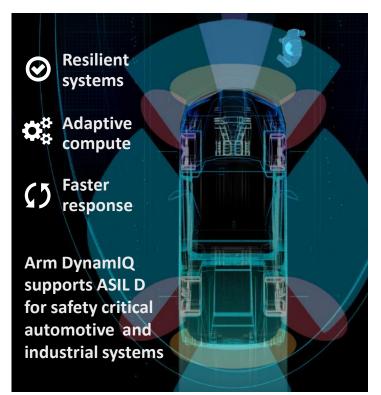
Autonomous machines

Advanced compute is moving to the physical domain

Robots and autonomous cars will operate alongside people



The physical domain requires stringent safety standards



Vehicle electrification will force the pace of change



- All future models from Volvo will have electric or hybrid engines
- UK and France have announced plans to phase out petrol vehicles by 2040

Augmented reality

New experiences and new user interfaces

Seamless interactions between humans, machines and data



Augmented reality (AR) overlays digital information onto the user's view of their immediate surroundings.

AR relies on advanced display technologies and new techniques for reading user input, such as 3D sensors.

A demanding roadmap for mobile GPU performance



Latency: <16ms to avoid motion sickness

Frame-rate: >60 Hz for a smooth viewing experience

Resolution: 2K minimum for realistic images

Driving innovation in displays, 3D sensors and computer vision



Source: Sony



Hyperscale cloud and connectivity

Infrastructure for the information revolution

Enterprise compute is moving to the cloud



L-J Alibaba Cloud



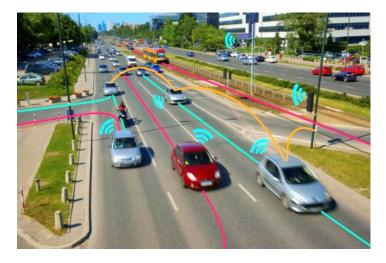


Insatiable demand for data is driving new standards

Performance targets for 5G networks

- 1000x data volume per km2
- 1000x connections per km2
- **100x** user data rate
- 80% reduction in latency
- 80% reduction in opex
- 90% reduction in energy

Workloads will be shared across devices, base stations and servers

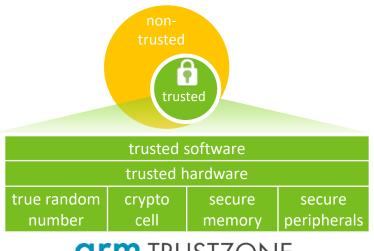


Autonomous vehicles will be controlled by computers in the car, in neighbouring cars, in nearby base stations and in remote datacentres

Information security

The fundamental component of all connected systems

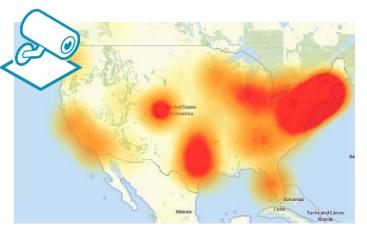
Secure systems are built on a hardware root of trust



arm TRUSTZONE

Secure Identity – Software Identity –
Secure Boot – Isolation – Authentication –
Encryption – Tamper Detection –
Trusted Execution Environment –

Devices must be kept secure with regular software updates

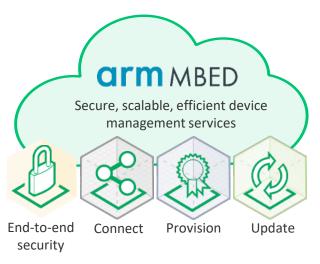


REUTERS

Chinese OEM to recall up to 10,000 webcams after hack

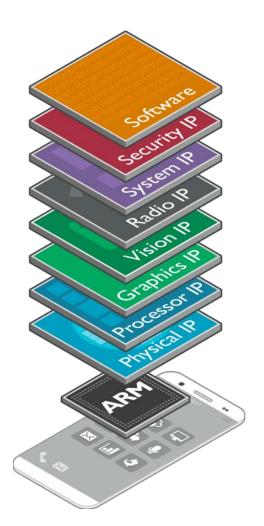
Mirai Botnet attack, October 2016

Good security is inexpensive to implement and costly to crack



Arm mbed Cloud takes care of complex security tasks in large-scale IoT networks. This allows Arm's OEM customers to concentrate their development on features that differentiate their product offering.

Arm's current business



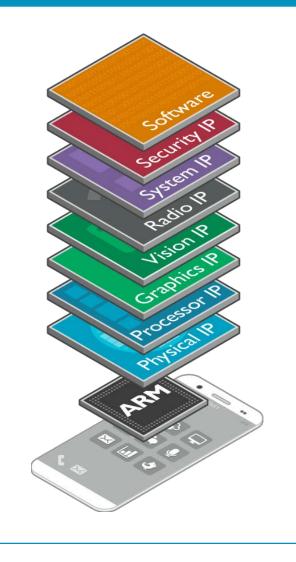
Arm develops **intellectual property** (IP) blocks which are used in silicon chips

Our partners combine Arm IP with their own IP to create complete chip designs

We earn license fees when we deliver Arm IP to our partners and royalties when our partners ship chips that contain Arm IP

Highly profitable and cash generative

Accelerating investment to increase share gains



Generating \$600m annualised free cash flow mbed Cloud

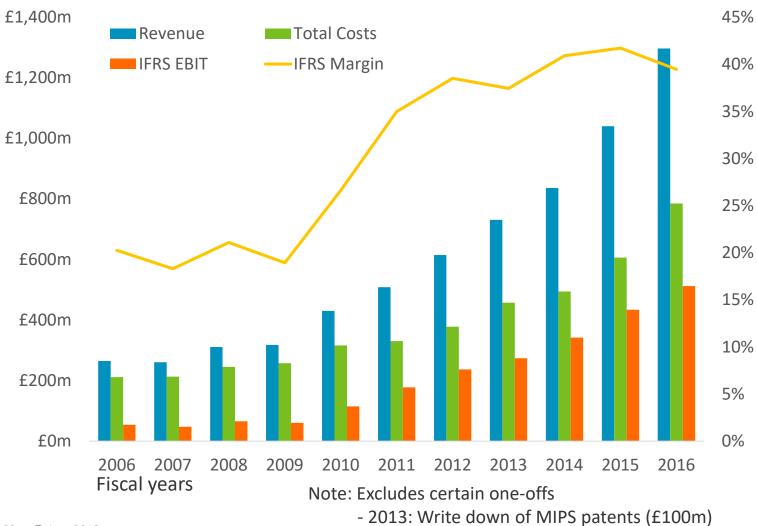
mbed Cloud Partners



Investing to create new revenue streams

- mbed Cloud SaaS business
- Early-stage investment but many years in research
- Securely connect any device into your network, using any communications technology, supporting any cloud platform
 - Cloud provision: secure device identification, on-boarding and configuring
 - Cloud connect: manage your IoT networking using standard-based comms
 - Cloud update: remotely update firmware across all your devices

Revenues, profits and profitability



Over the past 10 years Arm's
revenues grew faster than costs

Profits grew and profitability edged over 40%

%

At the start of the next phase of investment Arm expects costs to grow faster than revenues

This should yield even greater profits in the future

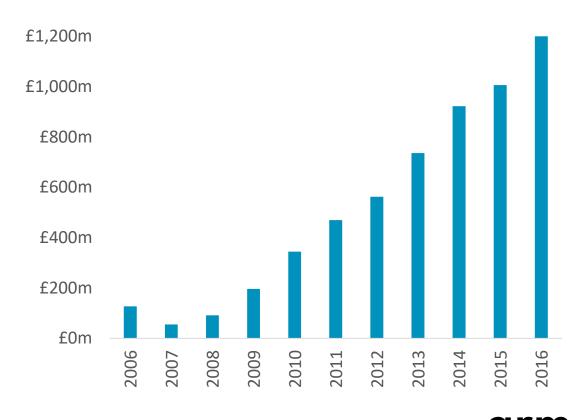
- 2016: Execution costs associated with SoftBank acquisition

Investment philosophy

"Now is the time to be sowing, not harvesting"

- Rate of investment is discretionary and under Arm's control
- SoftBank has asked Arm to accelerate investments and to increase risk appetite
- All costs are expected to be financed from IP business' revenue streams
- During this accelerated investment phase, costs are expected to grow faster than revenues

Arm has over £1.2bn of net cash and no debt

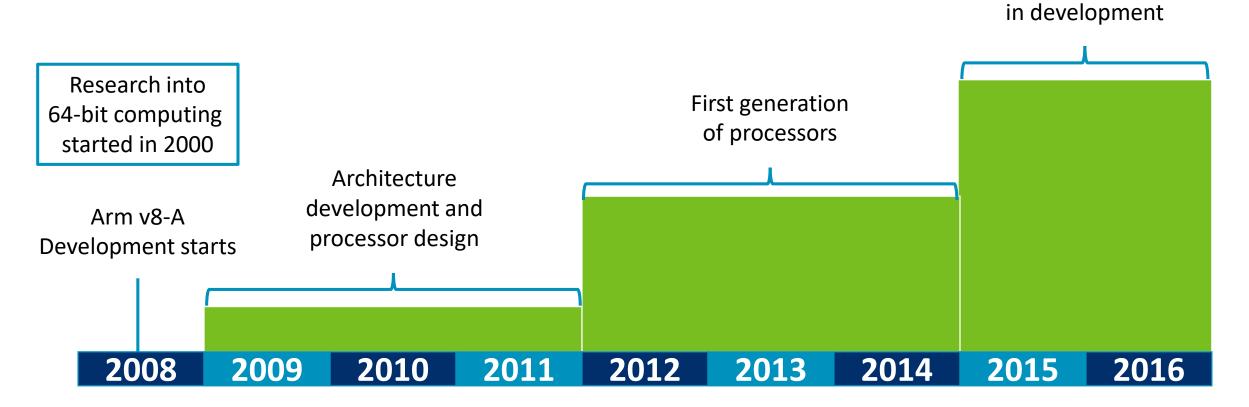


Investment strategy

Multiple processors

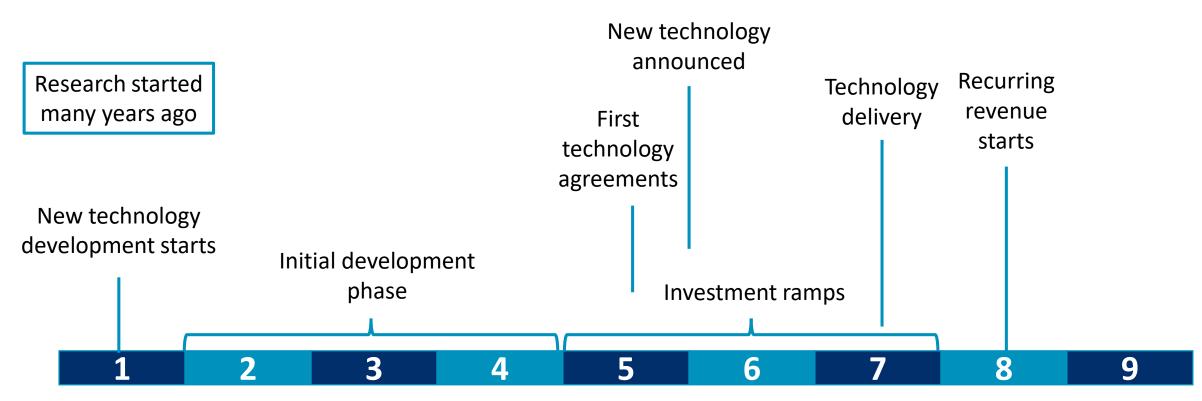
Return on Investments – Arm v8-A case study

Arm incurs R&D costs many years before revenue starts



Return on Investments – General case

Arm incurs R&D costs many years before revenue starts

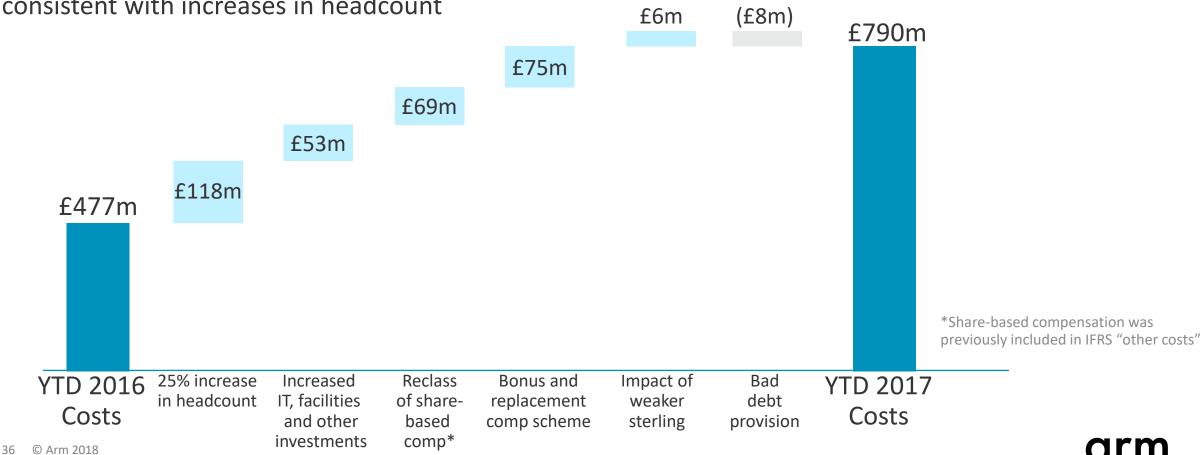


Revenue continues for many years after the investment phase, yielding high profits over time

Investing in people, infrastructure to create new products

Costs are higher in 2017 as Arm expands R&D capability

Future cost increases are expected to be consistent with increases in headcount



Contact information

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More content available on our website: www.arm/com/ir

Recent investor webinars and papers:

- The route to a trillion devices white paper and a series of three webinars on the economics of IoT. Featuring Diya Soubra, Product Manager, IoT and Michael Horne, Deputy GM, IoT
- Accelerating artificial intelligence with Nandan Nayampally, General Manager of Arm's Compute Products Group
- The route to 10nm by Ron Moore, VP Marketing for Arm's Physical IP Group
- Machine learning in client devices by Jem Davies, General Manager of Arm's Media Products Group
- Intelligent buildings white paper by Ani Deodhar, Segment marketing manager for IoT Solutions

Arm IR Updates

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To register for these emails, visit:

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ARM

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