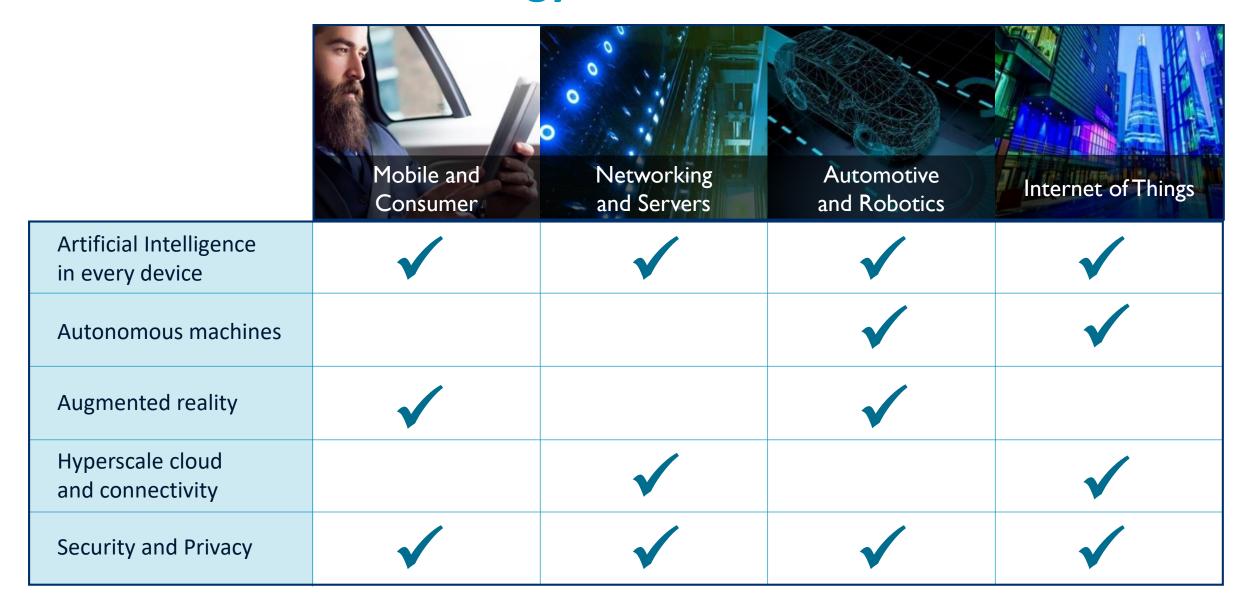




Technology trends that will redefine all industries



Arm defines the technology that will redefine all industries



Arm introduction

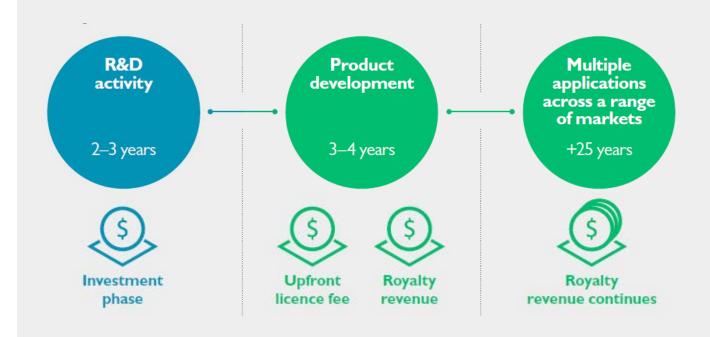
Global leader in technology licensing

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



>1,500 licences
Growing by >100
every year

>500 potential royalty payers

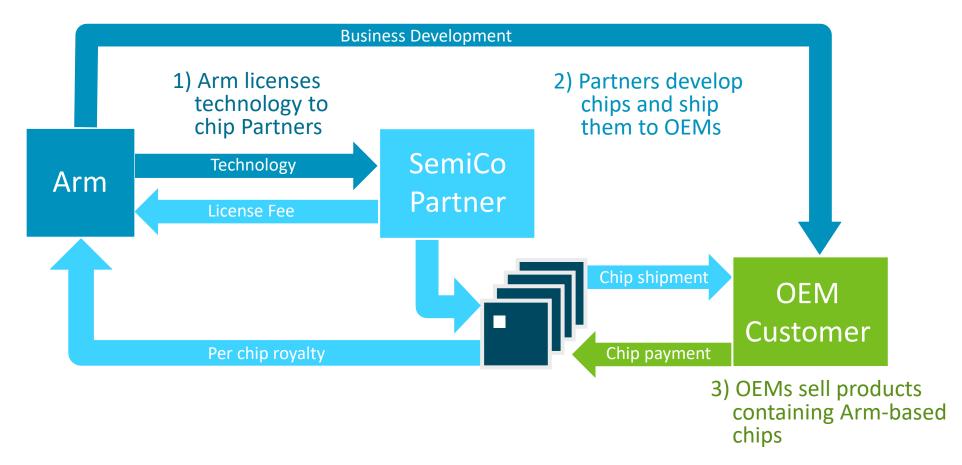
17.7 bn Arm-based chips shipped in 2016

~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





Designed into first mobile phones and then smartphones



Now all electronic devices can use smart Arm technology



1990

1993 onwards

Today

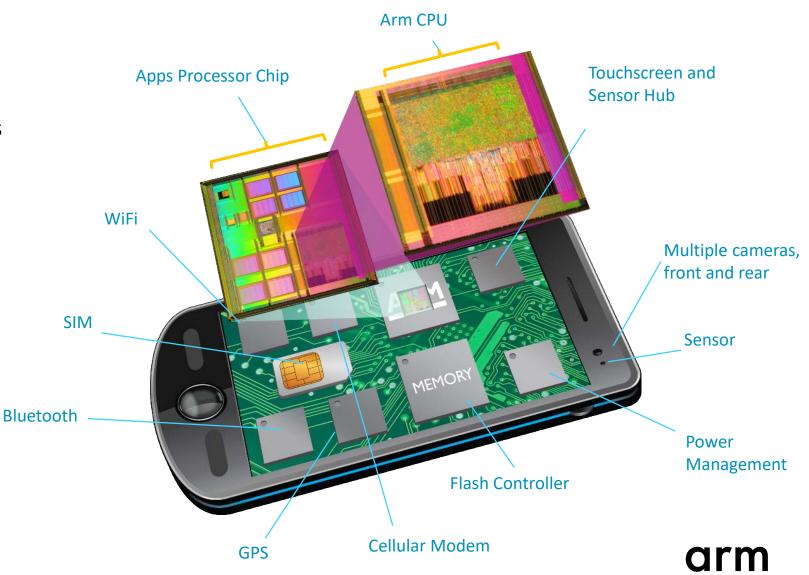


Smart devices contain many Arm processors

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-based chip shipments



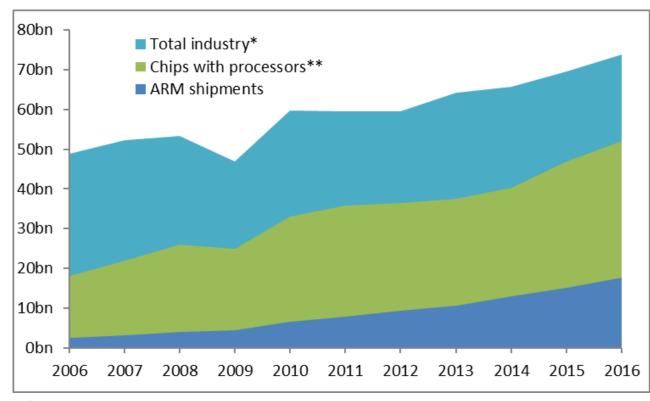


Arm's opportunity continues to broaden

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

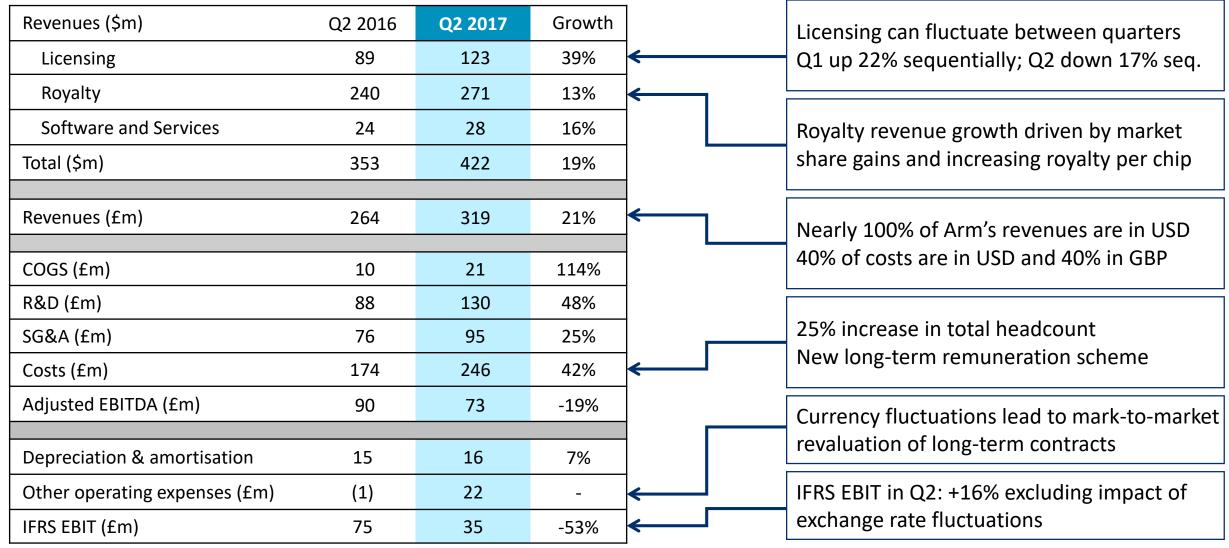
Calendar years



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



Qtr. ending September. 2017 – Financial summary



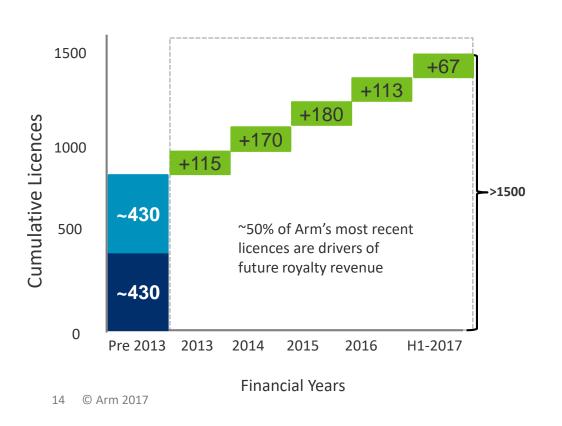


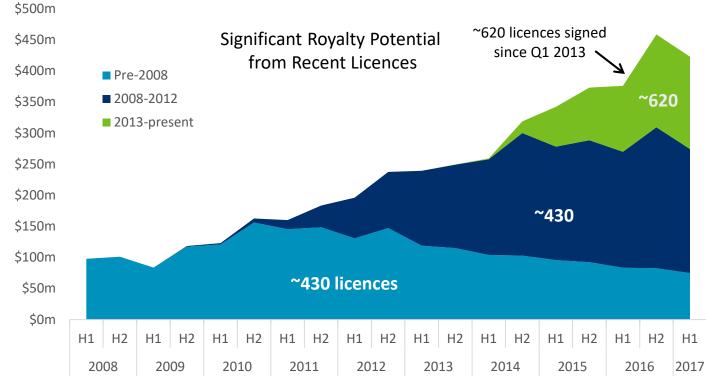
Licensing enables future royalties

Arm signed 68 licences in H1-2017

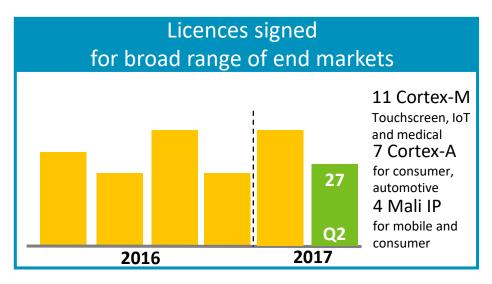
Arm's current royalty revenues are derived from licences signed many years ago

Growing base yields royalty revenues over long period

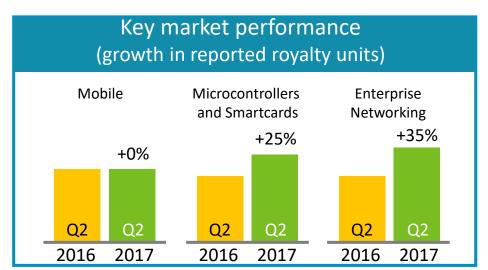


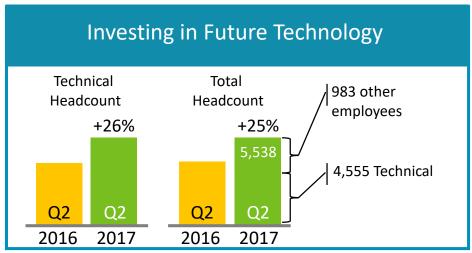


Qtr. ending Sept. 2017* – Progress against strategy



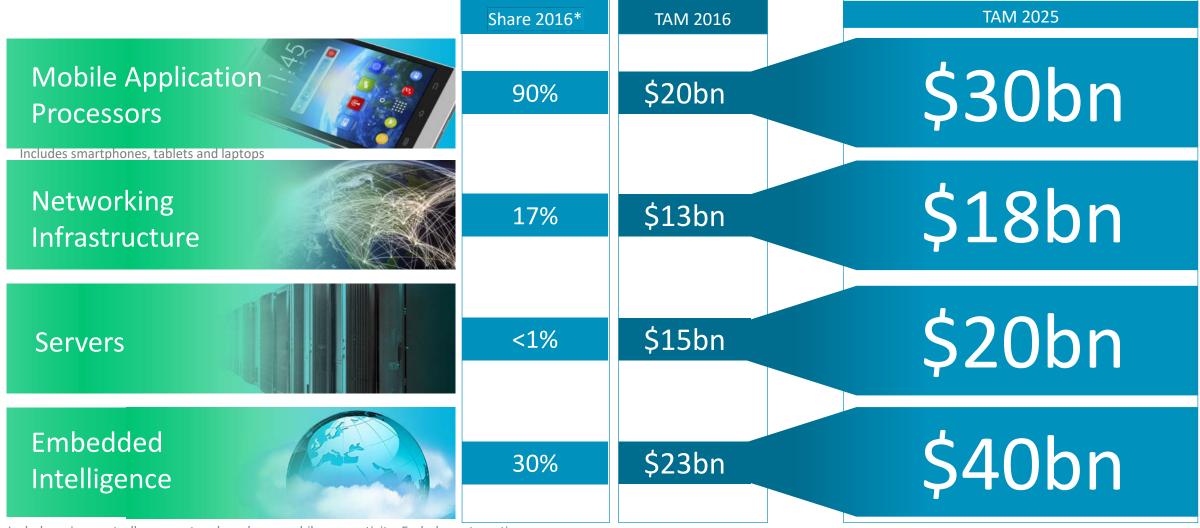








Arm's expanding opportunity



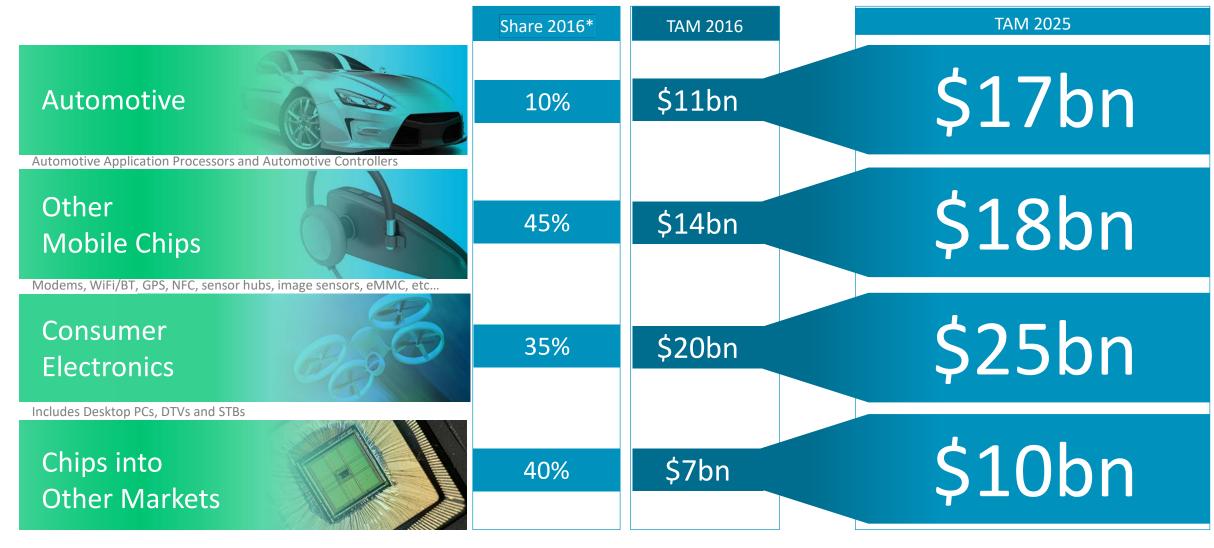
Includes microcontrollers, smartcards and non-mobile connectivity. Excludes automotive



^{* 2016} Arm Market Share by Volume

[†] Total Available Market (TAM)

Arm's expanding opportunity



^{* 2016} Arm Market Share by Volume

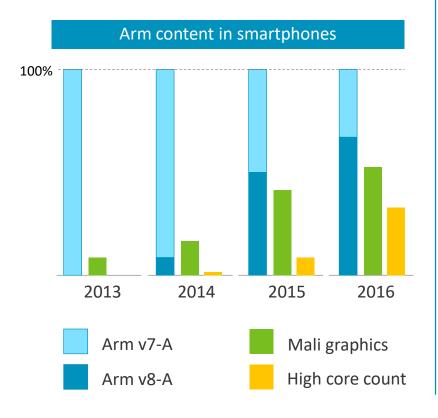


[†] Total Available Market (TAM)

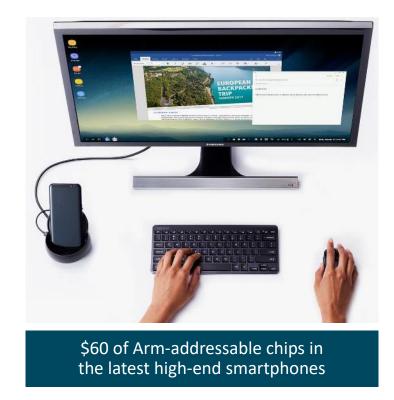
Arm's opportunity in mobile and consumer

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



Investment in smartphones has led to new form factors





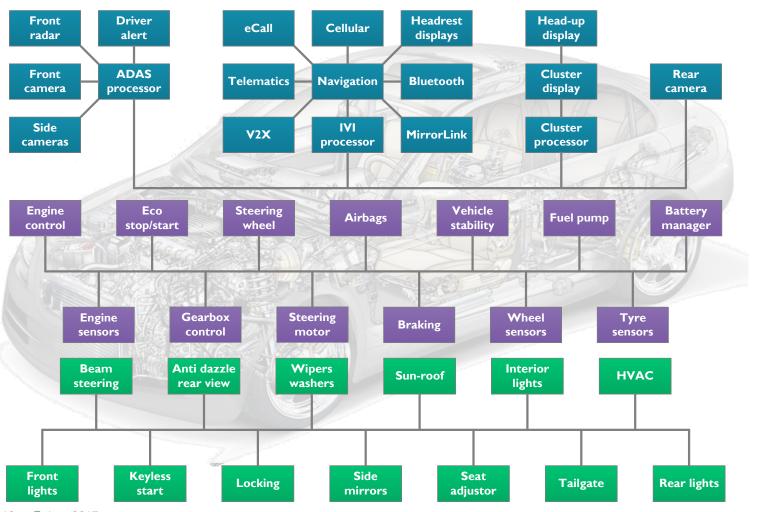






Arm's opportunity in automotive

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



Autonomous driving, ADAS, Cluster, Connectivity

Powertrain, chassis

Body electronics, sensors, actuators, communications



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

Barcelona Supercomputer Centre selects
Arm v8-A for Mare Nostrum 4



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

Future networks will be based on open source collaboration



Network Function Applications

OpenStack

OpenDaylight

Linux

Hypervisors

Open vSwitch

OpenDataPlane

Networking software is being optimised for Arm-based chips

OpenDataPlane project members



















HISILICON





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 opportunity in IoT – silicon IP

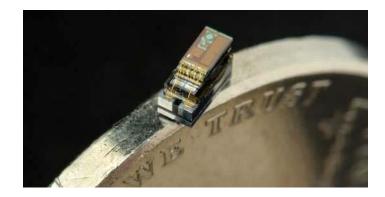
The architecture of choice for IoT developers

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

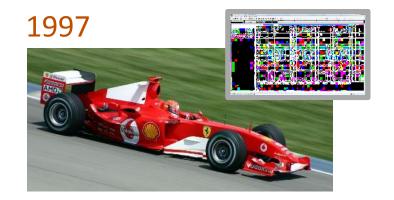






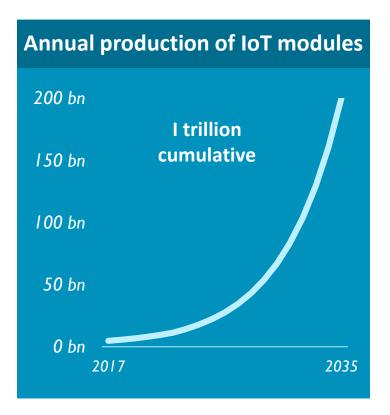


High-value tech is now available at consumer price points





Every thing will be connected

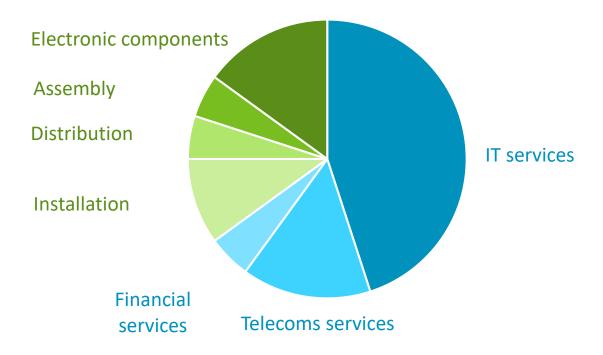




Arm's opportunity in IoT – software and services

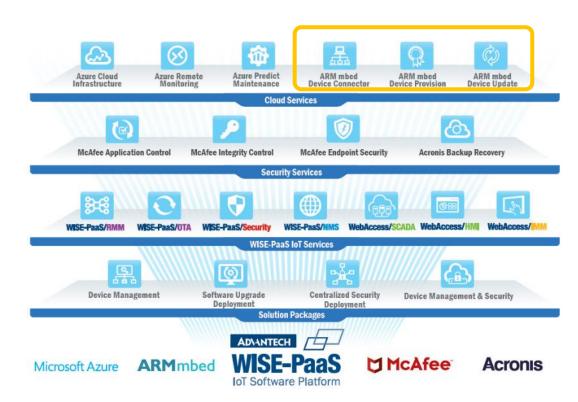
Investing to create new revenue streams

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



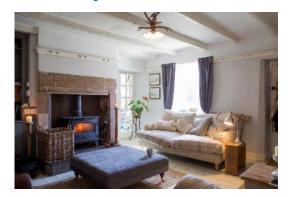
loT



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



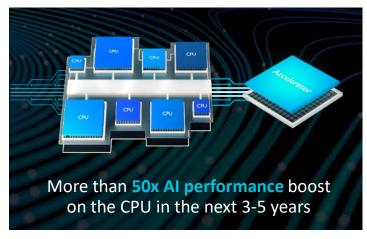


arm COMPUTE LIBRARY





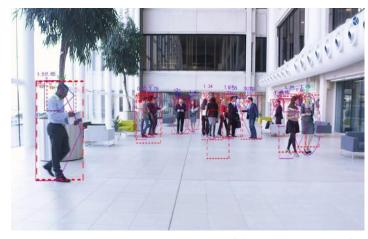
Optimise for performance, cost and programmability



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



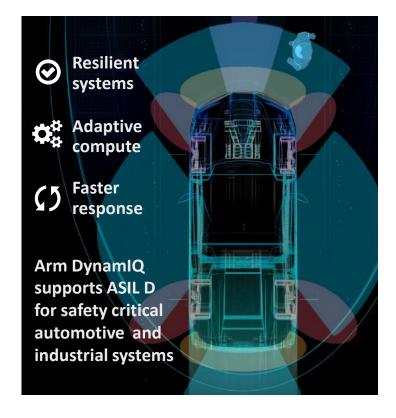
Autonomous machines

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

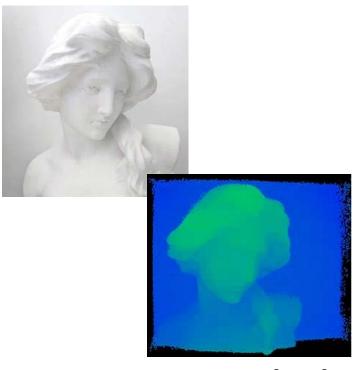
Frame-rate: >60 Hz

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









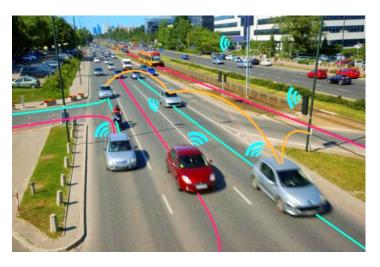


Insatiable demand for data is driving new standards

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
- 99% reduction in time to deploy

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

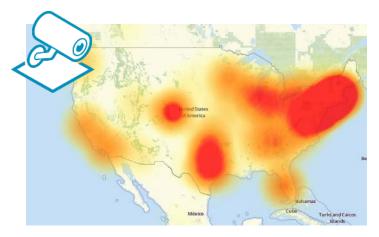
memory

peripherals

cell

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

Devices must be kept secure with regular software updates

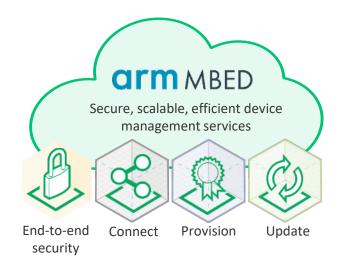


REUTERS

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

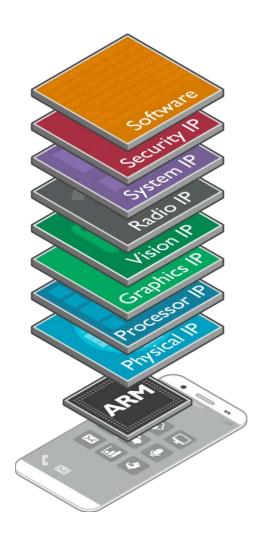


Arm mbed Cloud takes care of complex security tasks in large-scale IoT networks. This allows Arm's OEM customers to concentrate their development on features that differentiate their product offering.



number

Arm's current business



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

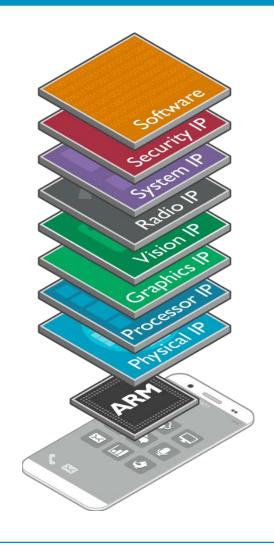
Our partners combine Arm IP with their own IP to create complete chip designs

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

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



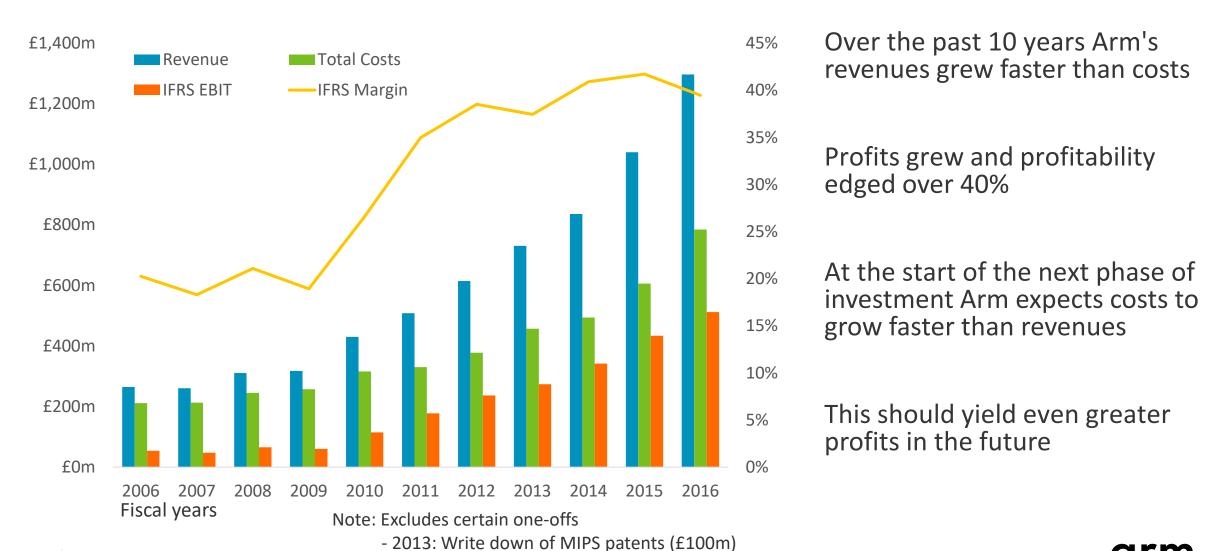
mbed Cloud Partners







Revenues, profits and profitability



- 2016: Execution costs associated with SoftBank acquisition

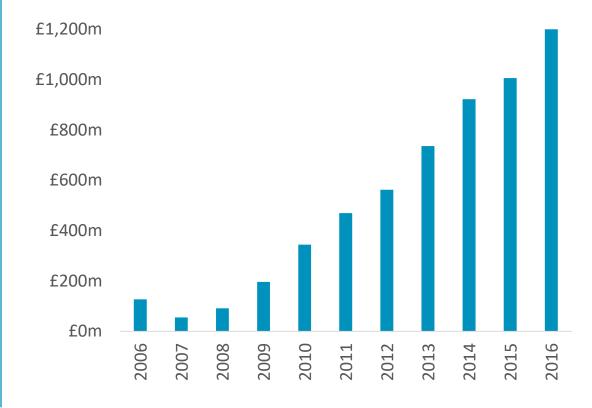


Investment philosophy

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

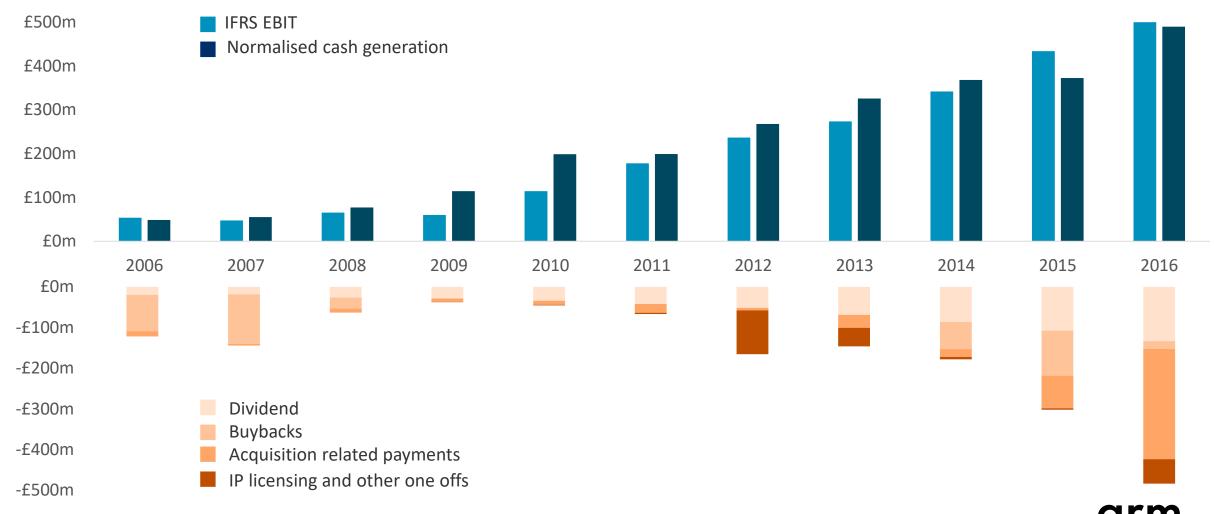
- Rate of investment is discretionary and under Arm's control
- SoftBank has asked Arm to accelerate investments and to increase risk appetite
- All costs are expected to be financed from IP business' revenue streams
- During this accelerated investment phase, costs are expected to grow faster than revenues

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



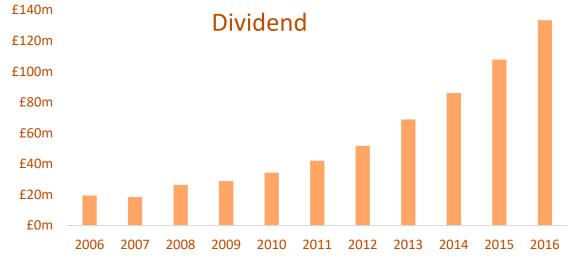


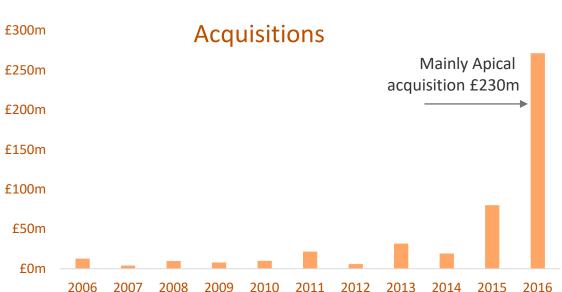
Profits, cash generation and use of cash

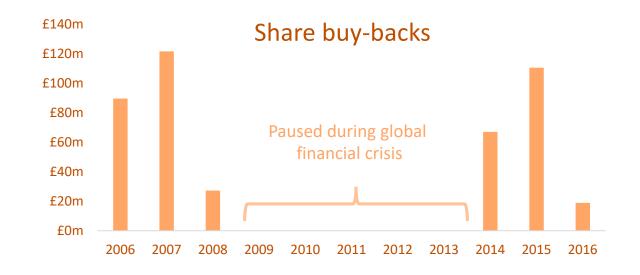


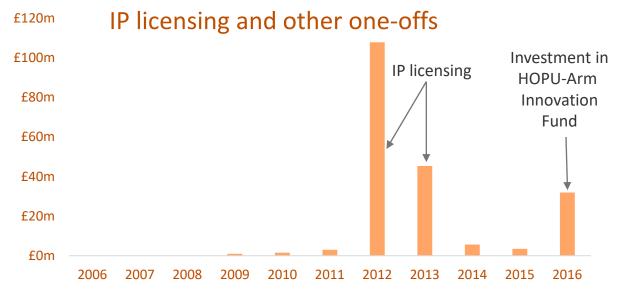
Note: 2016 excludes £66m of SoftBank acquisition related expenses

Historical use of cash

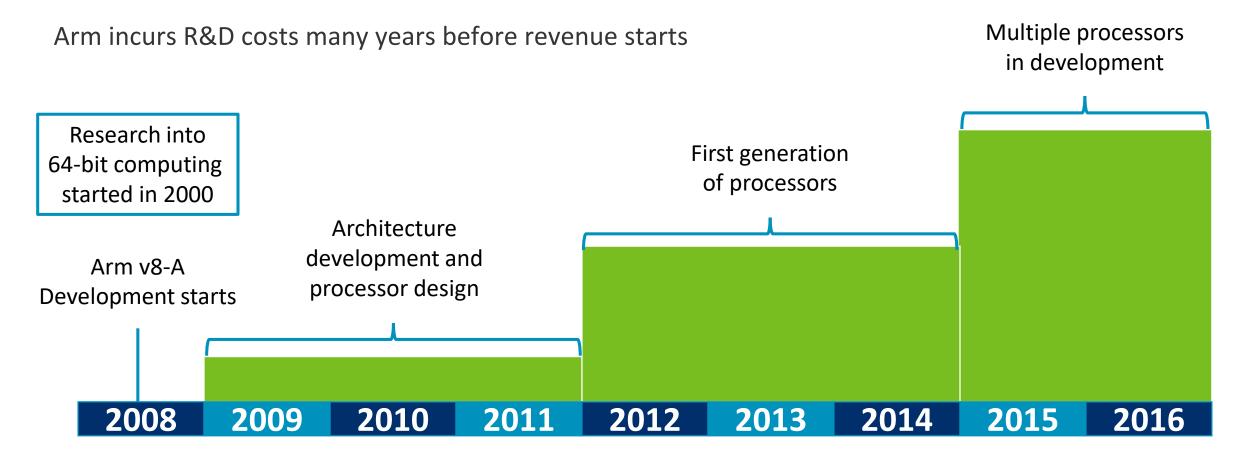








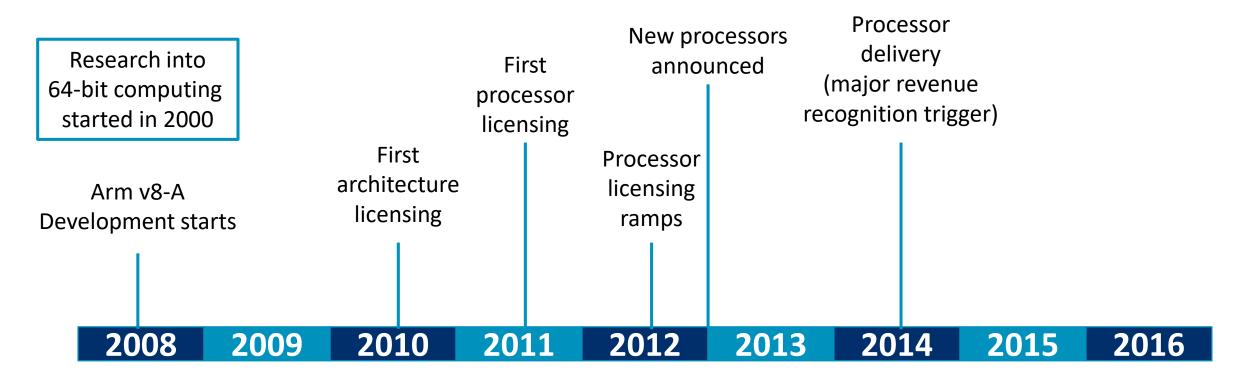
Return on Investments – Arm v8-A case study





Return on Investments – Arm v8-A case study

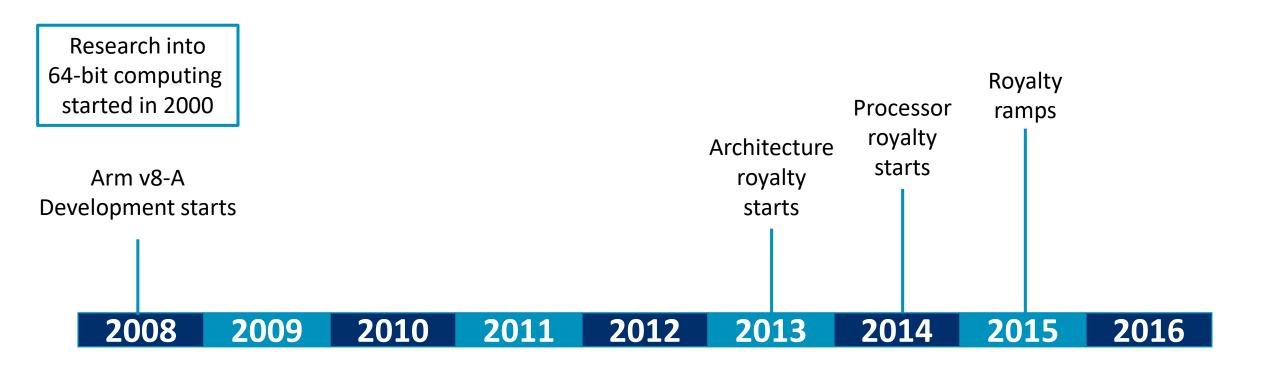
Arm incurs R&D costs many years before revenue starts





Return on Investments – Arm v8-A case study

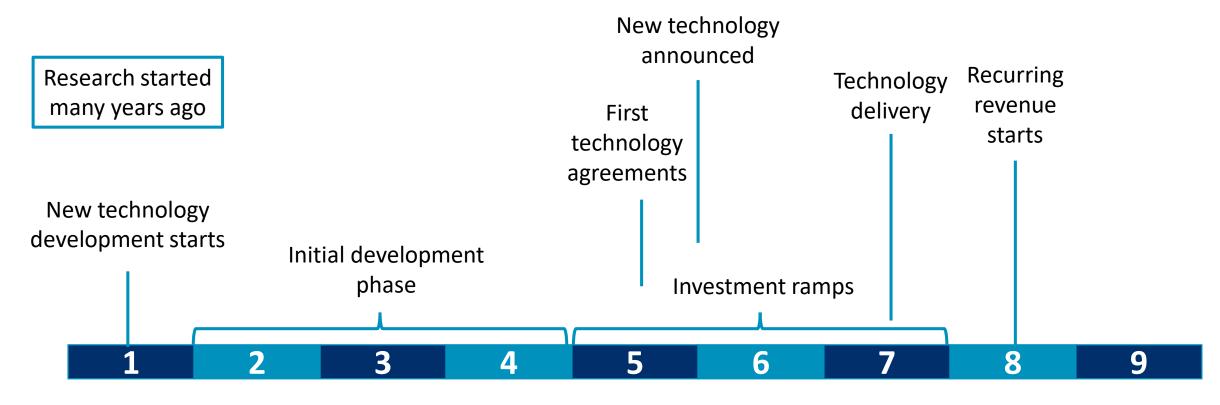
Arm incurs R&D costs many years before revenue starts





Return on Investments – General case

Arm incurs R&D costs many years before revenue starts

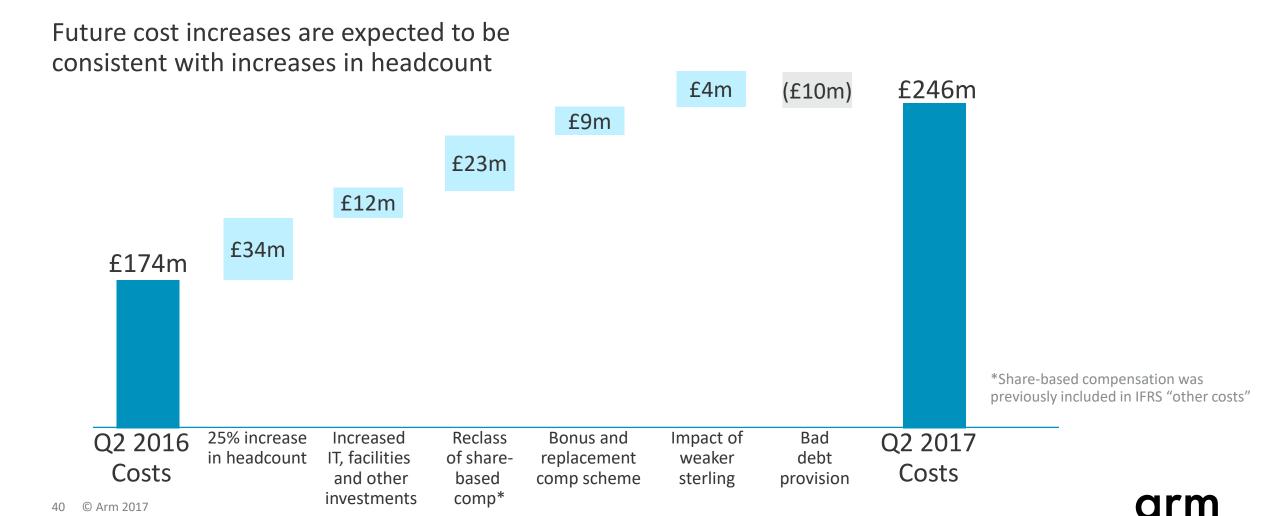


Revenue continues for many years after the investment phase, yielding high profits over time



Investing in people, infrastructure to create new products

Costs were higher in Q2 2017 as Arm expands R&D capability



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



Meeting Arm in November and December 2017

Event	Location	Date	Broker
Conference	San Francisco	13-14 November (1)	UBS
Reverse roadshow	San Jose	14 November	Canaccord
Conference	Barcelona	15 November (2)	Morgan Stanley
Conference	New York	15 November	Nikko
Conference	London	20-21 November	Daiwa
Group Meeting	London	24 November	Nomura
Conference	London	27 November	Morgan Stanley
Conference	Tokyo	29 November	Nomura
Roadshow	Tokyo	30 November (3)	SoftBank organised
Conference	London	4 December	Jefferies
Conference	New York	5 December	Raymond James
Conference	San Francisco	7 December	Barclays

Notes:

- (1) Simon Segars, CEO, will be presenting at the UBS tech conference on the morning of 13 November
- (2) Ian Thornton, Head of IR, will be a hosting an investor dinner on 15 November. Ask MS for details.
- (3) SoftBank IR team are arranging a general Arm update presentation on 30 November



Arm IR Updates

The Arm IR team sends out regular updates on news and technology trends

To register for these emails, visit:

www.arm.com/ir-emails





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