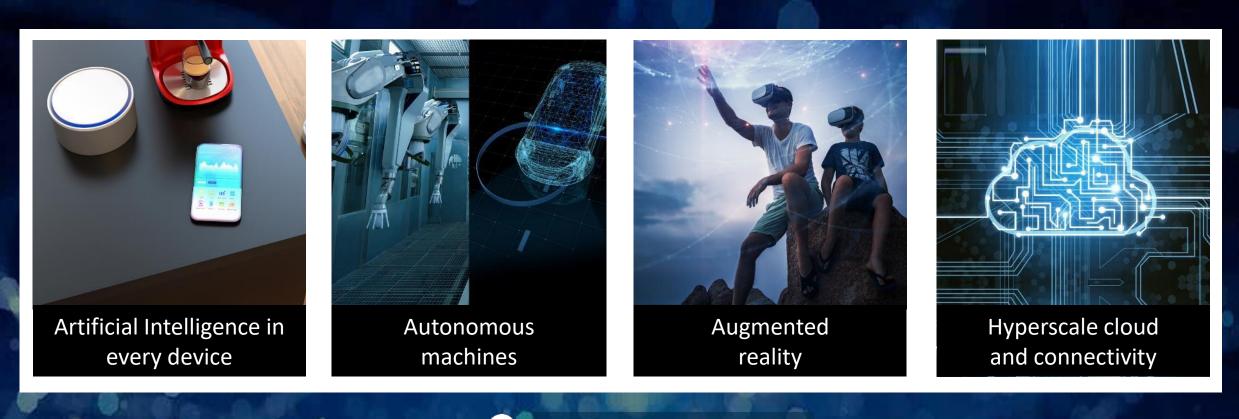
Arm Limited Roadshow Slides Q4 2019

Arm Limited is a subsidiary of SoftBank

arm

Technology trends that will redefine all industries



Security and Privacy

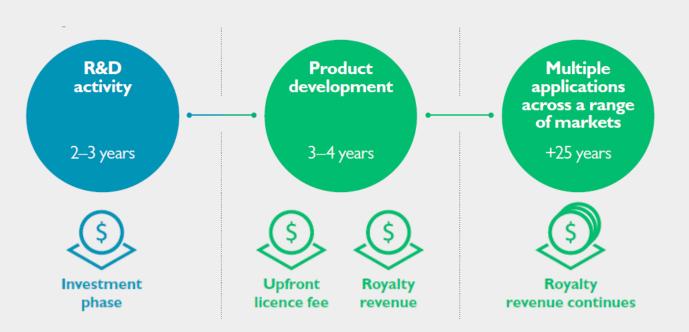


Arm defines the technology that will redefine all industries

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

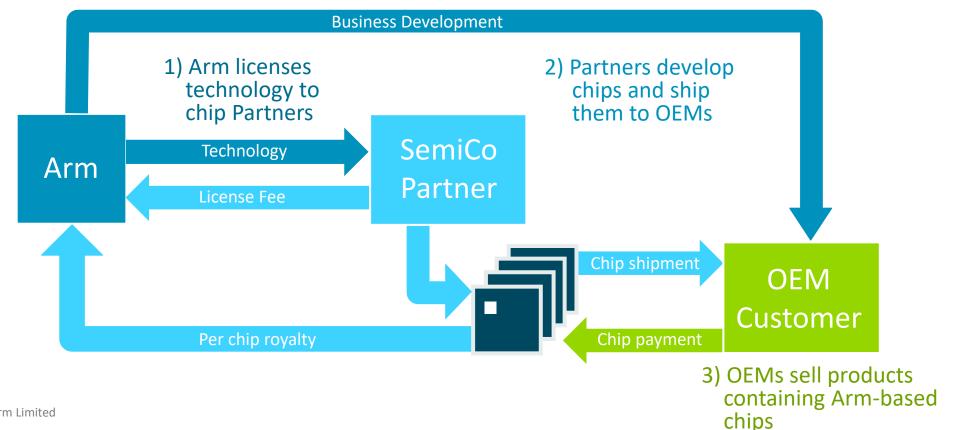
Arm introduction

- Global leader in technology licensing
 - R&D outsourcing for semiconductor companies
- Innovative business model
 - Upfront licence fee flexible licensing models
 - Ongoing royalties on customer sales
 - Technology can be reused across multiple applications
- Long-term, secular growth markets



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

Mobile and Consumer

Smartphones, tablets and laptops

- Apps processor, modem, connectivity, touchscreen and image sensors
- Growth coming from higher-value Arm technology such as Arm v8-A, more cores per chip, multimedia

Networking & Servers

\$67bn TAM 2029

- 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
- Over 300 companies have licenced Arm processors for use in embedded computing devices

89bn

TAM 2029

History of Arm

Joint venture between Acorn Computers and Apple





Designed into first mobile phones and then smartphones



1993 onwards

Now all electronic devices can use smart Arm technology

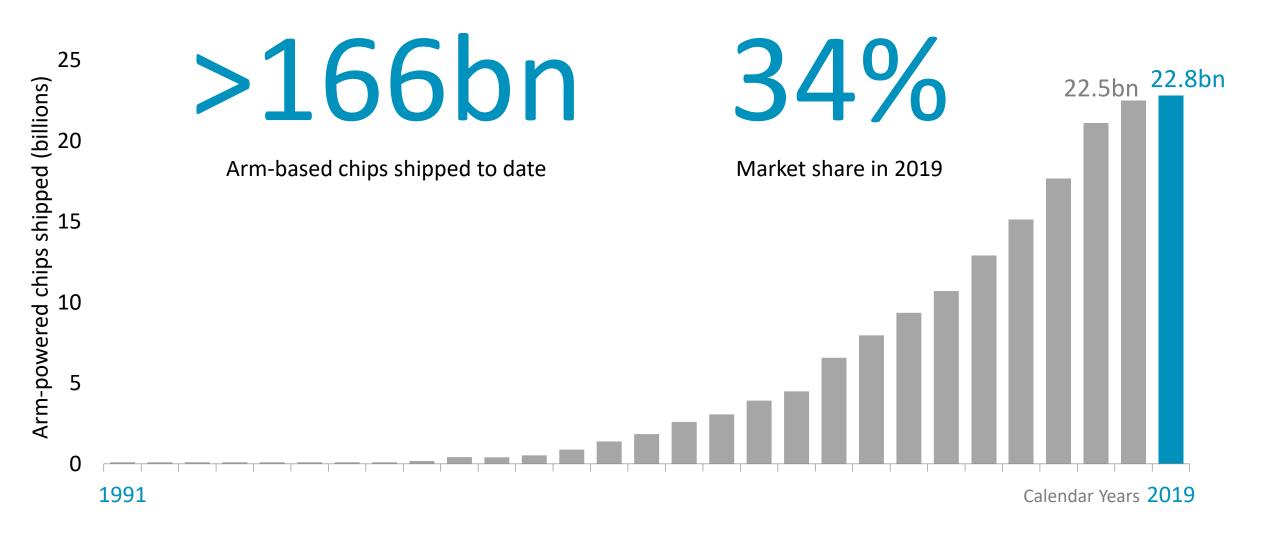


Today

1990

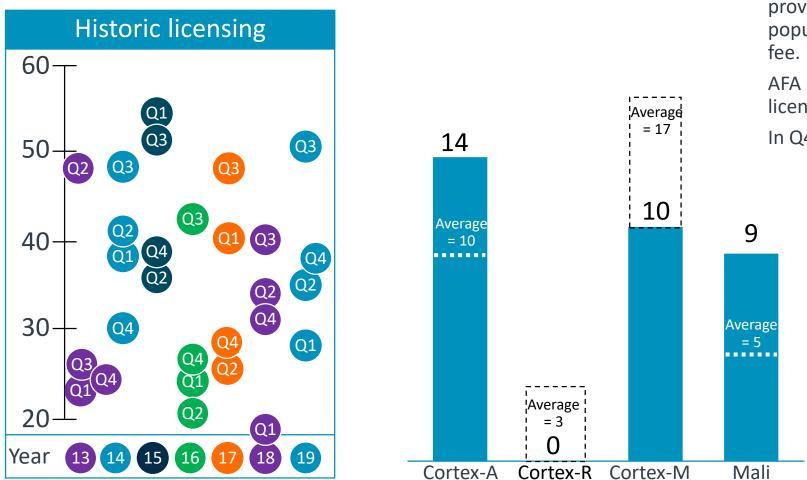


Arm-based chip shipments





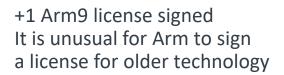
Q4 Licensing: 34 is within the normal range



In July 2019, Arm introduced Arm Flexible Access (AFA) licensing program which provides a wide range of Arm's most popular processors for no upfront license fee.

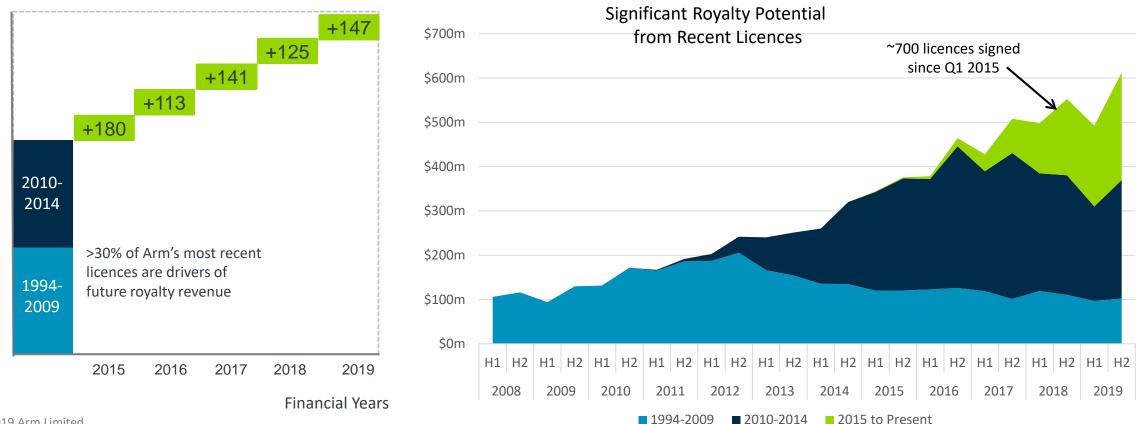
AFA licenses are not included in the licensing count.

In Q4, 15 AFA licenses were signed.

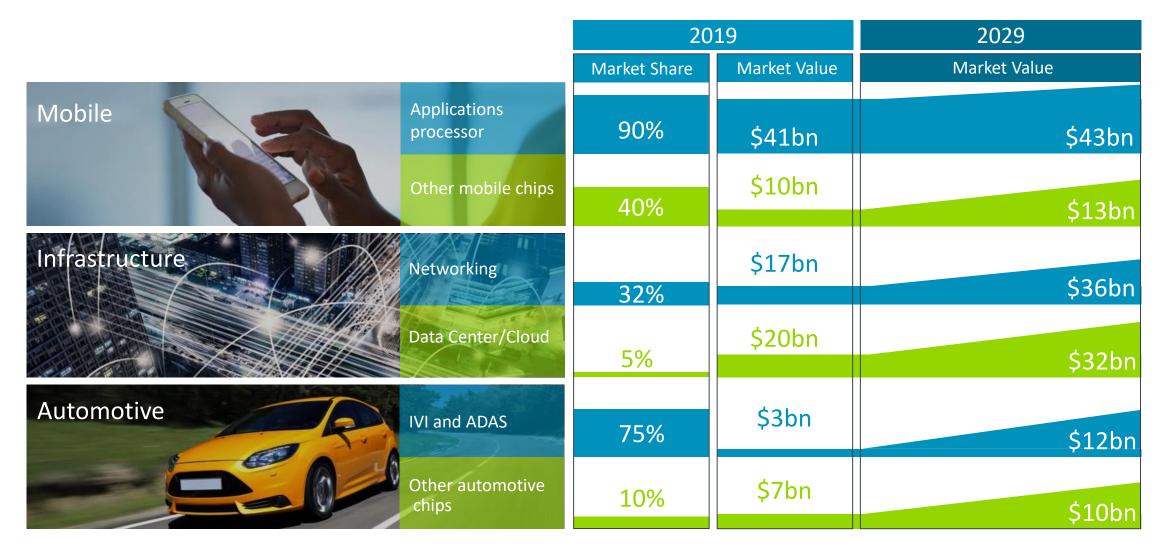


Licensing enables future royalties

- Arm signed 34 processor licences in Q4 2019; 147 for the FY2019
- Arm's current royalty revenues are derived from licences signed many years ago
- Growing base yields royalty revenues over long period



Arm's expanding opportunity



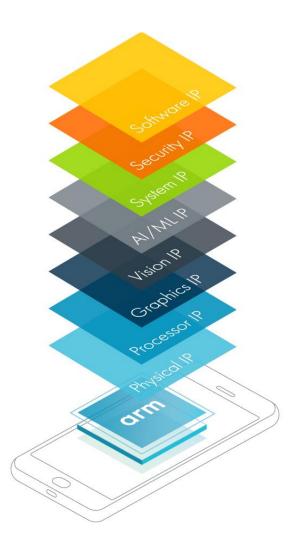
arm

Arm's expanding opportunity

		2019		2029
		Market Share	Market Value	Market Value
Embedded	Controller in IoT Devices	90%	\$4bn	\$16bn
	Microcontrollers/ SIM Cards	25%	\$10bn	\$15bn
Other	Consumer Electronics	42%	\$15bn	
Markets	Other chips	38%	\$11bn	\$33bn
			, 	\$23bn
Total Market	All chips with processors	34%	\$138bn	\$232bn



Arm's current business



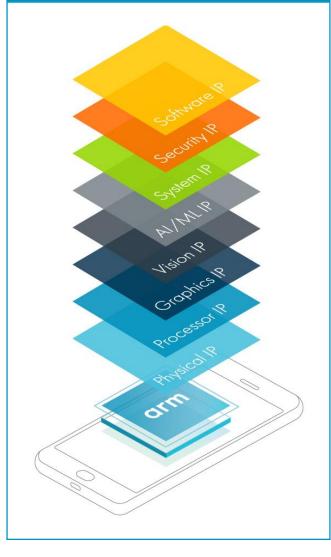
Arm primary business is the development of intellectual property (IP) blocks which are used in silicon chips

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





to be reinvested



Investing in new processor technology

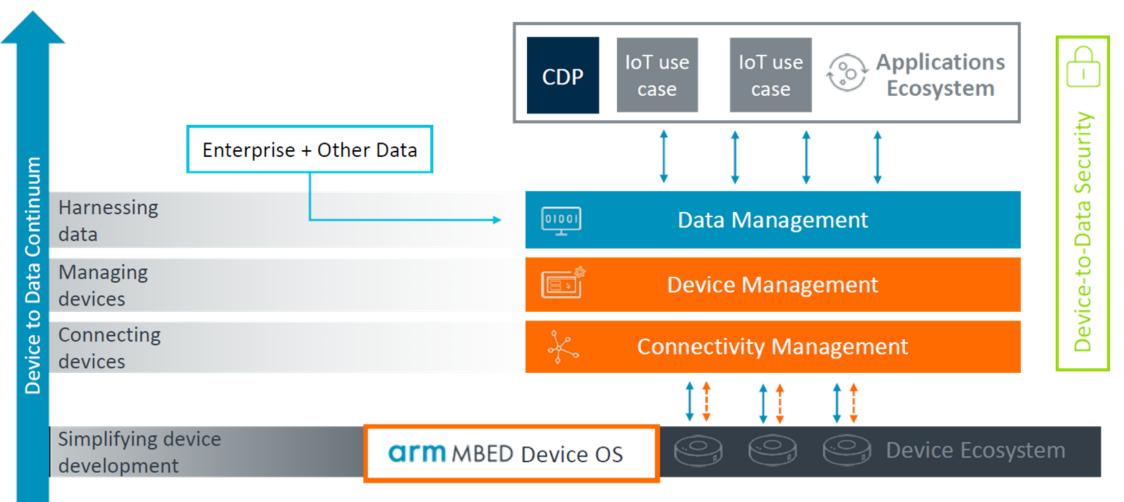
- Machine learning processors
- Computer vision
- Augmented reality
- Platform security

Investing in new IoT software and services

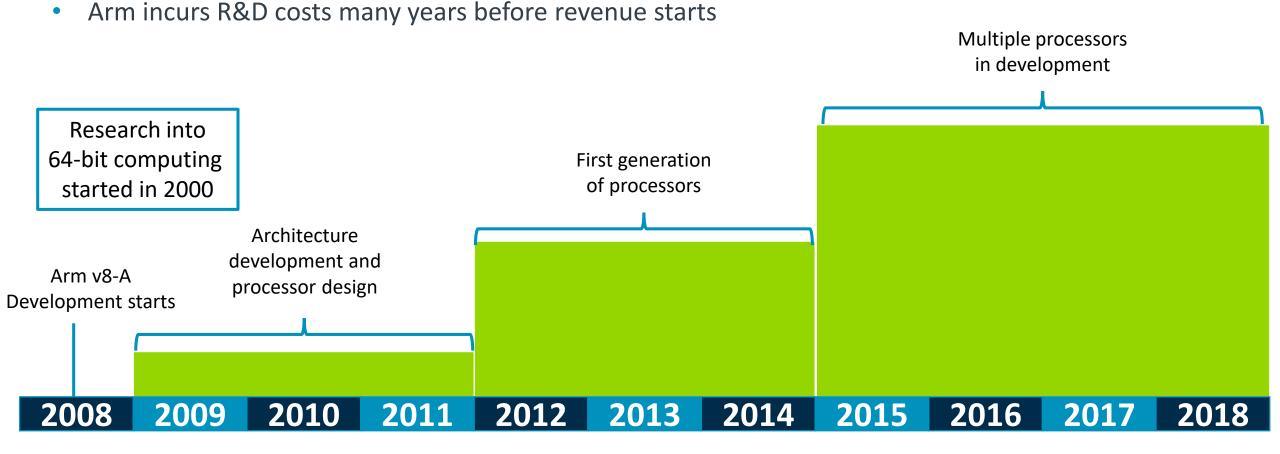
- Device Management
- Connectivity as a Service
- Data Management as a Service
- Pelion platform

Pelion – Combining physical and digital insights

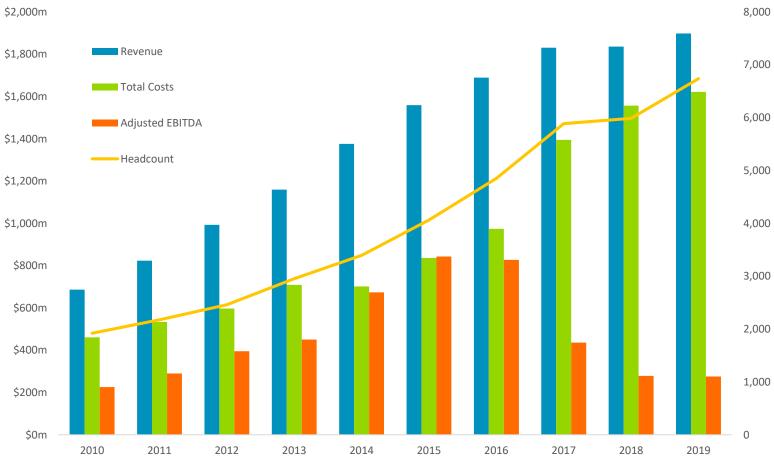
Simplifying deployment and enabling scale



Return on Investments – Arm v8-A case study



Revenues, investments and profits



8,000

- Until 2016 revenues grew faster than costs as Arm constrained investment in R&D to enable increasing profits
- For the current phase of investment Arm expects costs to grow faster than revenues
- This should yield even greater profits in the future
 - Note: Headcount in 2018 excludes 341 employees transferred to Arm China Joint Venture in June. By the end of Fiscal 2018, Arm China had 439 employees

Fiscal years



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More content available on

- Arm's website:
- SoftBank Group's website:

arm.com group.softbank/en/ir

