

# Arm Limited Roadshow Slides Q1 2020

### Technology trends that will redefine all industries





## 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				
Autonomous machines				
Augmented reality				
Hyperscale cloud and connectivity				
Security and Privacy				

#### Arm introduction

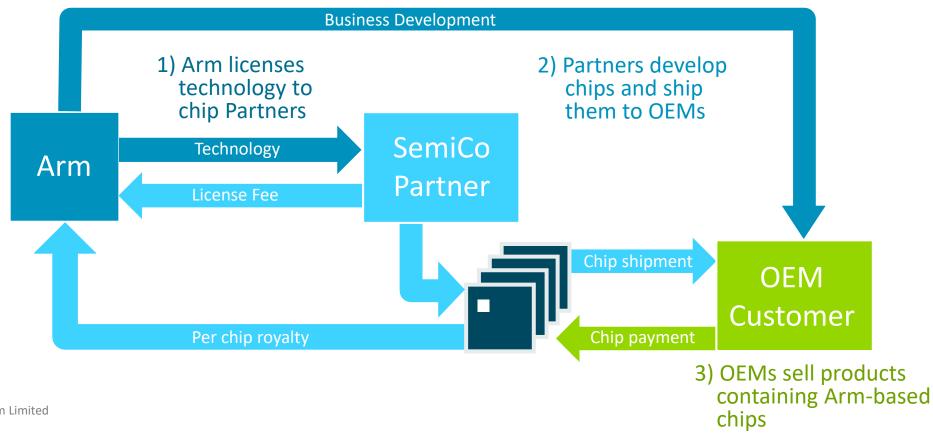
- Global leader in technology licensing
  - R&D outsourcing for semiconductor companies
- Innovative business model
  - Upfront licence fee flexible licensing models
  - Ongoing royalties on customer sales
  - Technology can be reused across multiple applications
- Long-term, secular growth markets





#### 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**



- 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



## 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



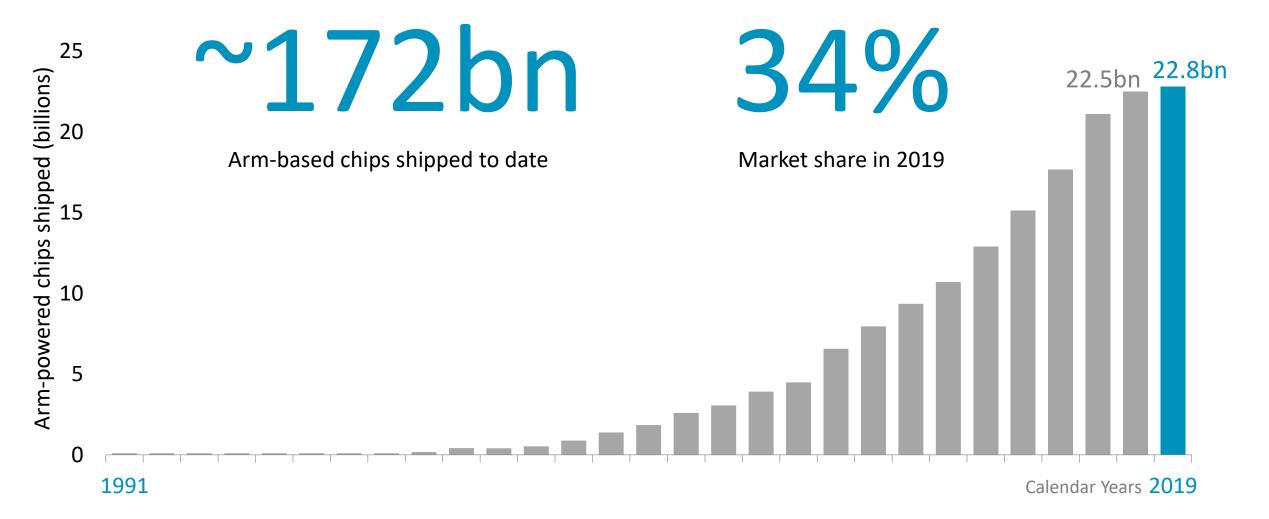
1990

1993 onwards

**Today** 



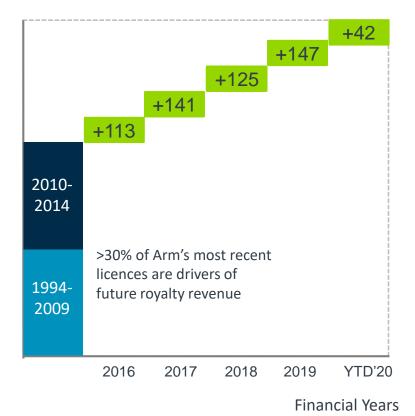
#### Arm-based chip shipments

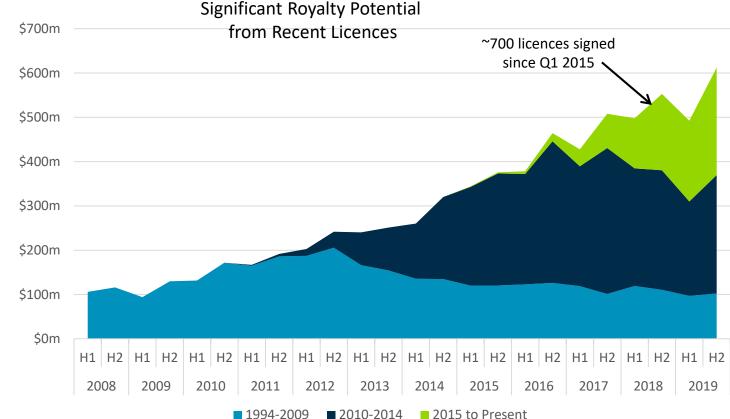




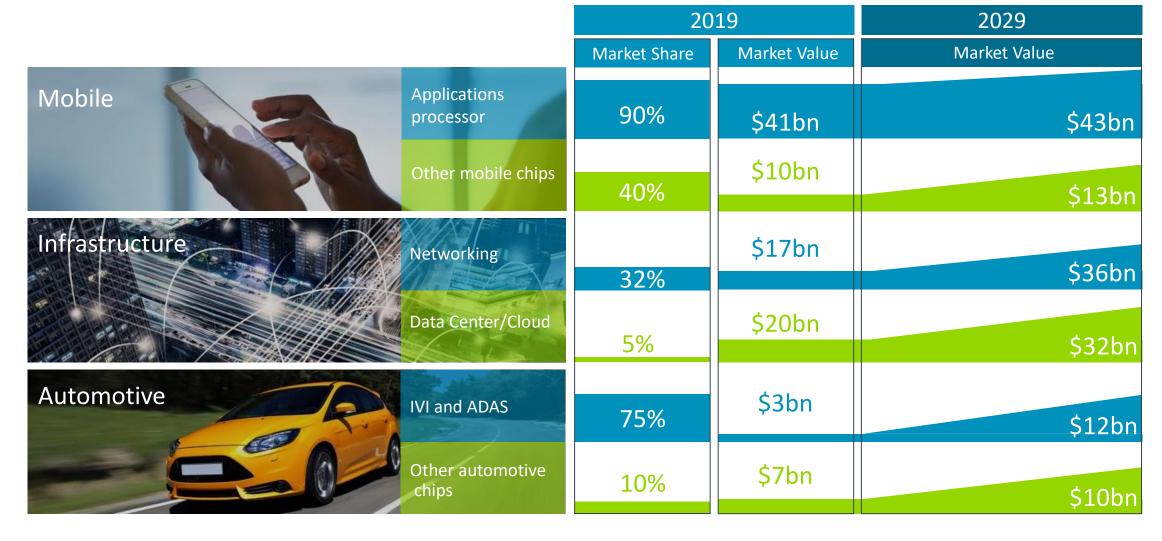
### Licensing enables future royalties

- Arm signed 42 processor licences in Q1 2020
- Arm's current royalty revenues are derived from licences signed many years ago
- Growing base yields royalty revenues over long period



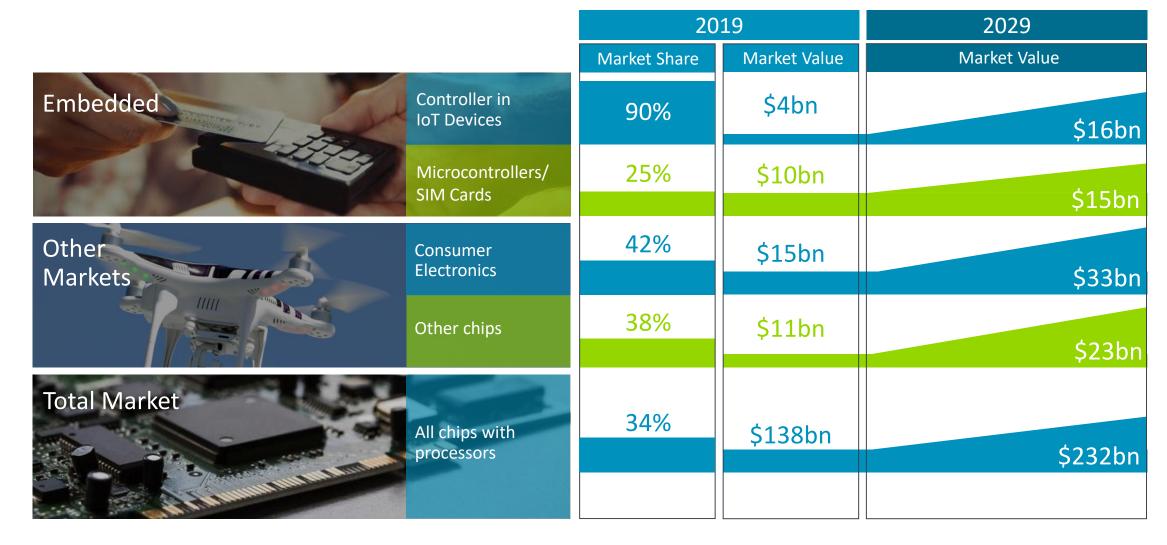


## Arm's expanding opportunity



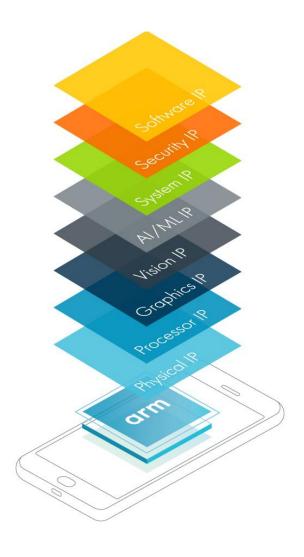


## Arm's expanding opportunity





#### Arm's current business



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

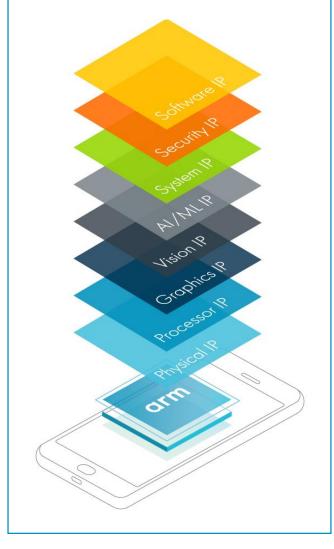
Our partners combine Arm IP with their own IP to create complete chip designs

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





Generating profits and cash to be reinvested



# Investing in new processor technology

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

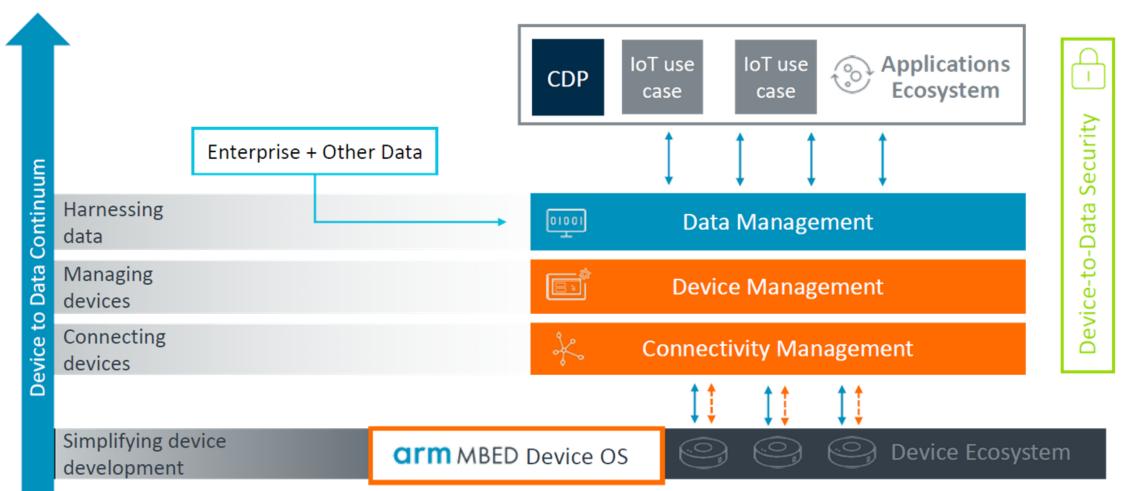
# Investing in new IoT software and services

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



## Pelion – Combining physical and digital insights

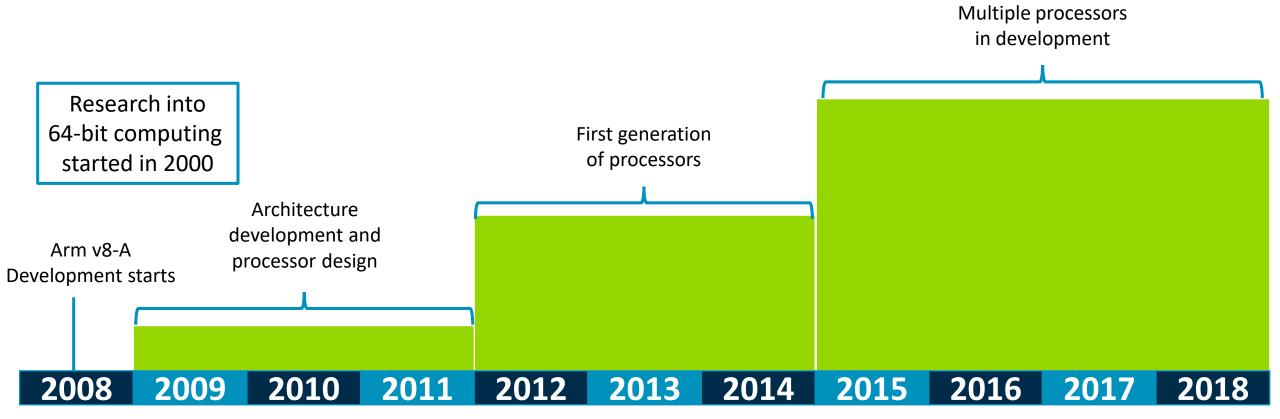
Simplifying deployment and enabling scale





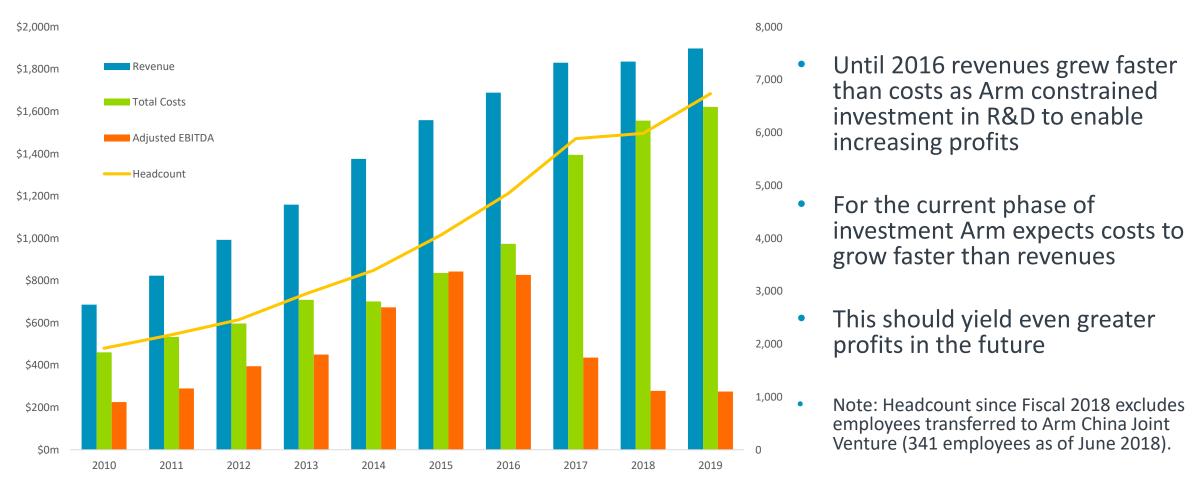
#### Return on Investments – Arm v8-A case study

Arm incurs R&D costs many years before revenue starts





#### Revenues, investments and profits





Fiscal years

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#### More content available on

• Arm's website: <u>arm.com</u>

SoftBank Group's website: group.softbank/en/ir

