

Arm Limited

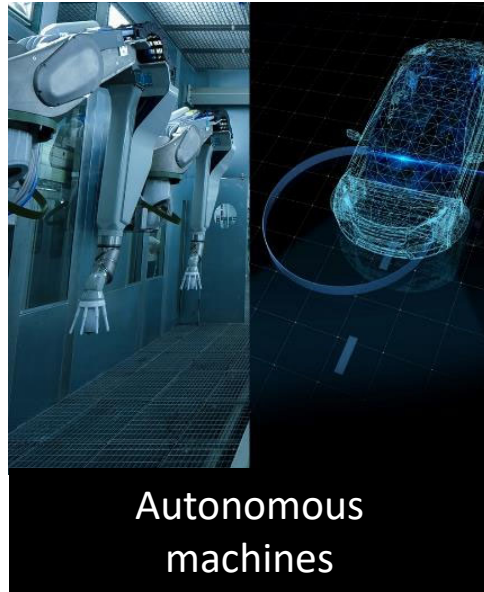
Q2 2018 Roadshow Slides

Arm Limited is a subsidiary of  SoftBank

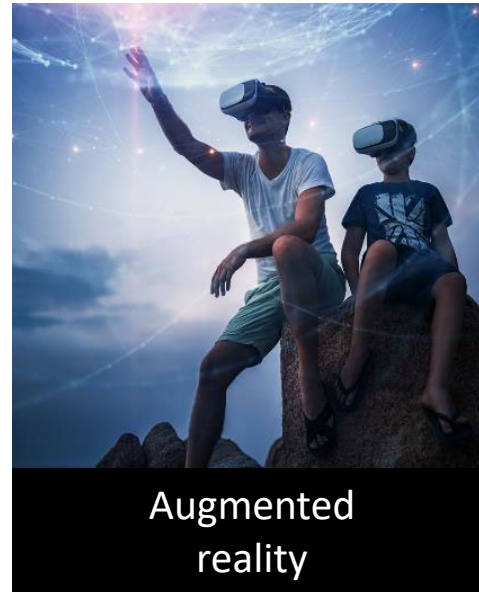
Technology trends that will redefine all industries



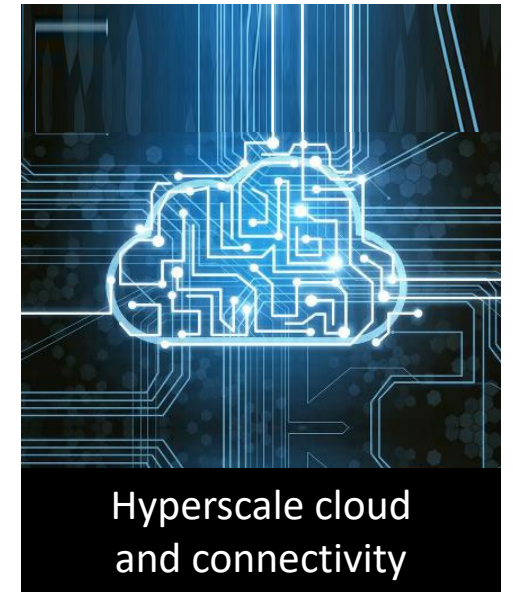
Artificial Intelligence in every device



Autonomous machines



Augmented reality

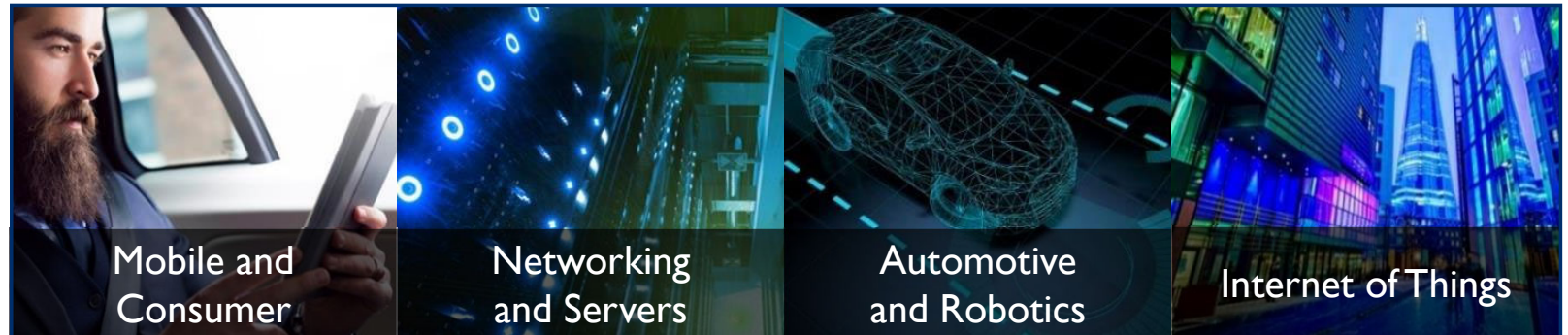


Hyperscale cloud and connectivity



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

Arm introduction

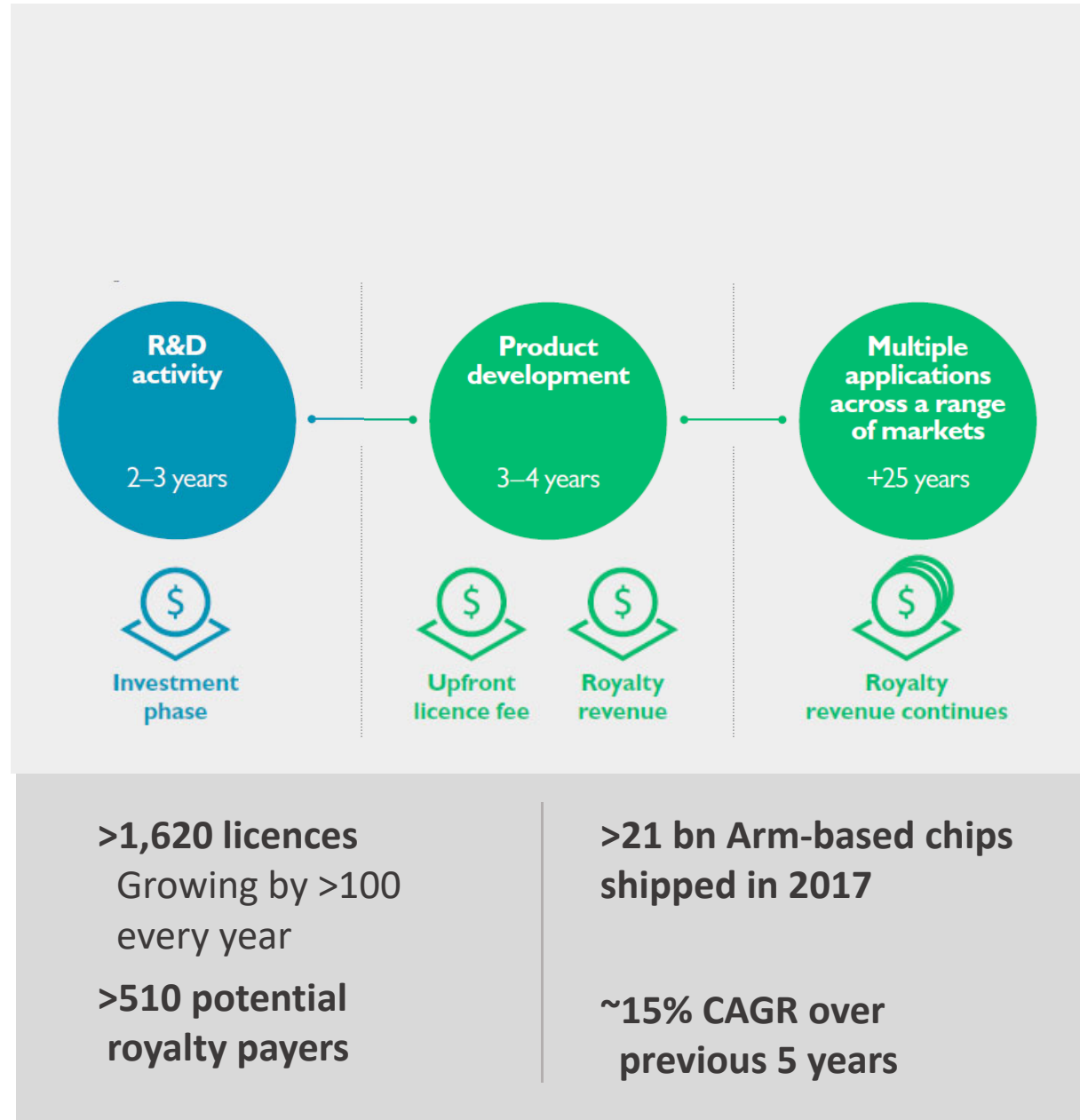
Global leader in technology licensing

- R&D outsourcing for semiconductor companies

Innovative business model

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

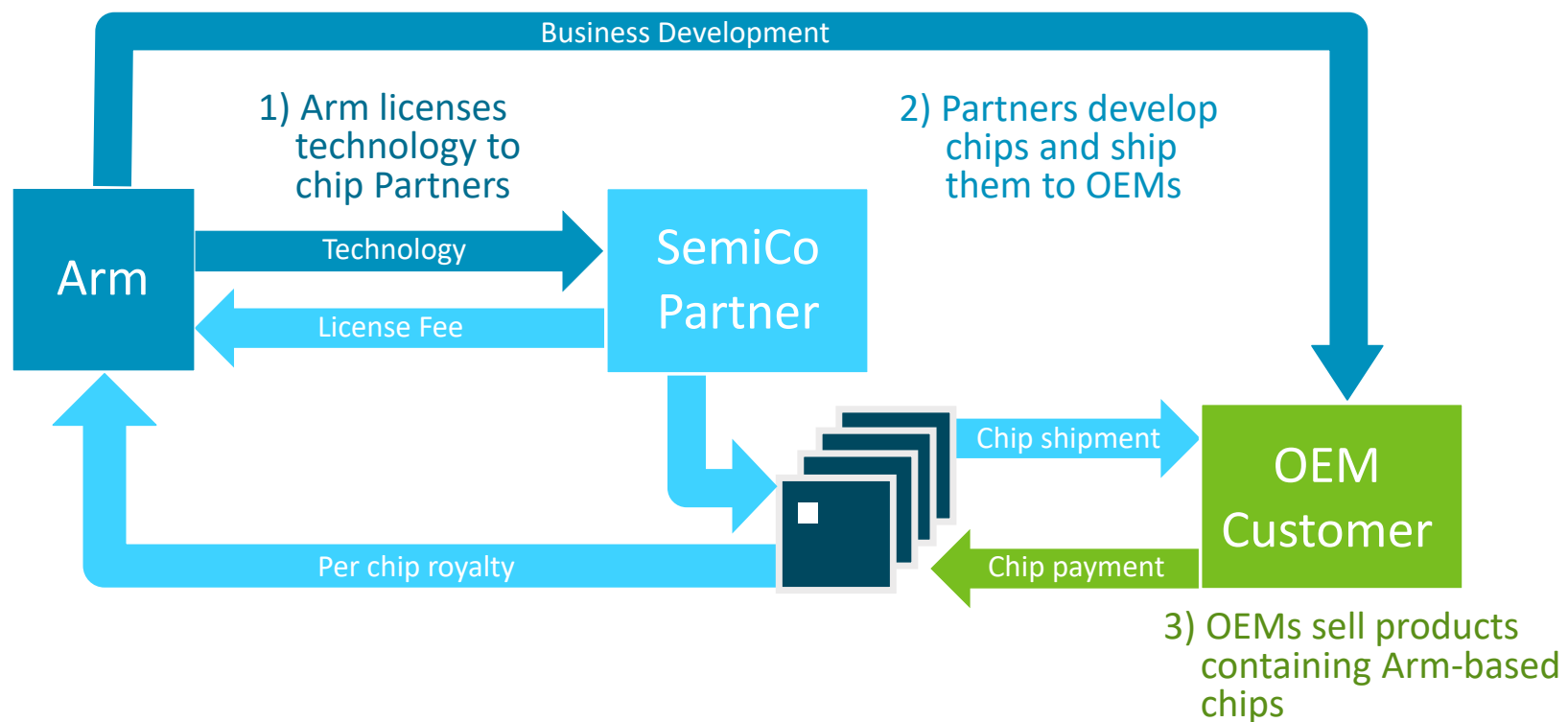
Long-term, secular growth markets



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 Devices



\$77bn
TAM 2026

- 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



\$41bn
TAM 2026

- 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



\$85bn
TAM 2026

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

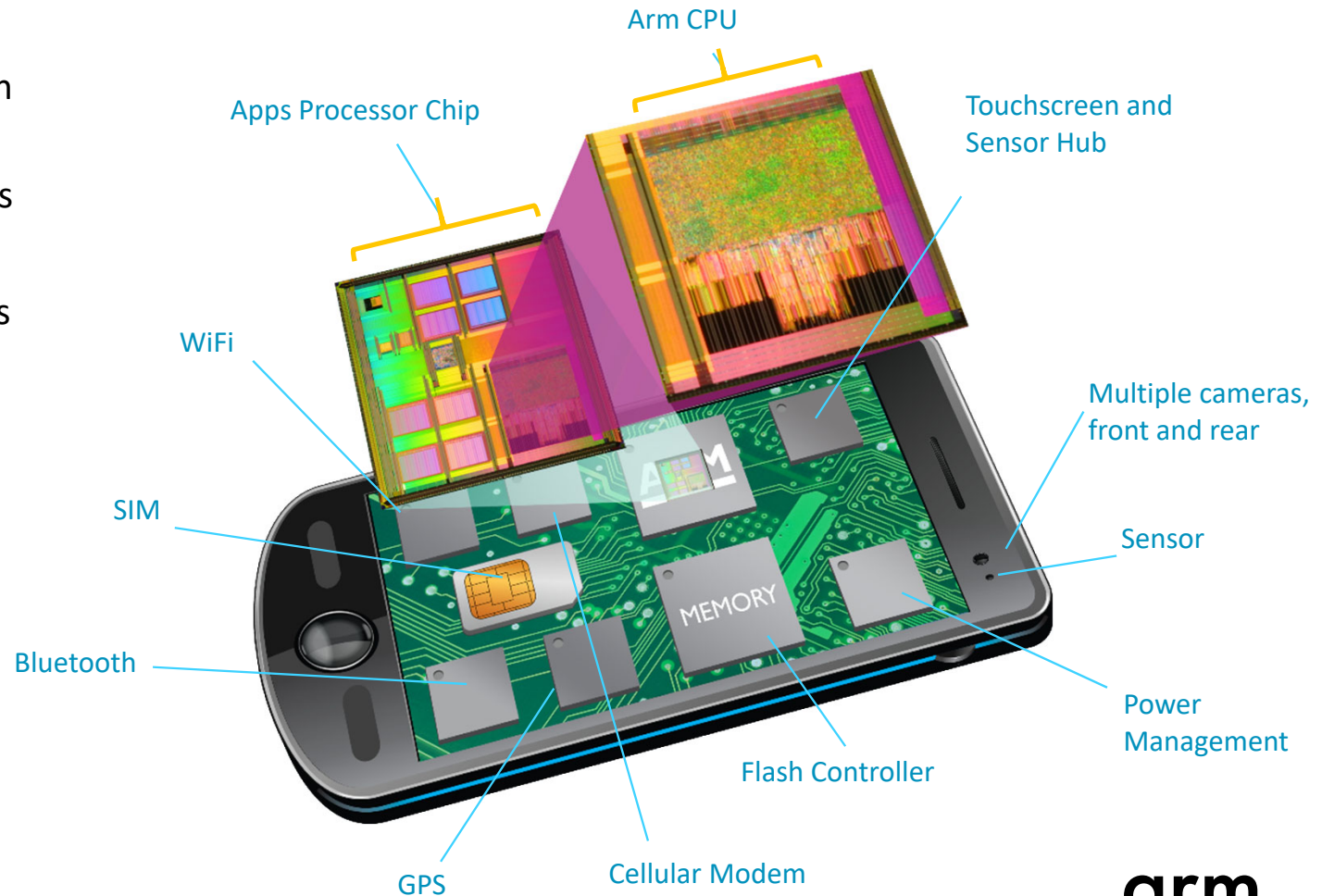
arm

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



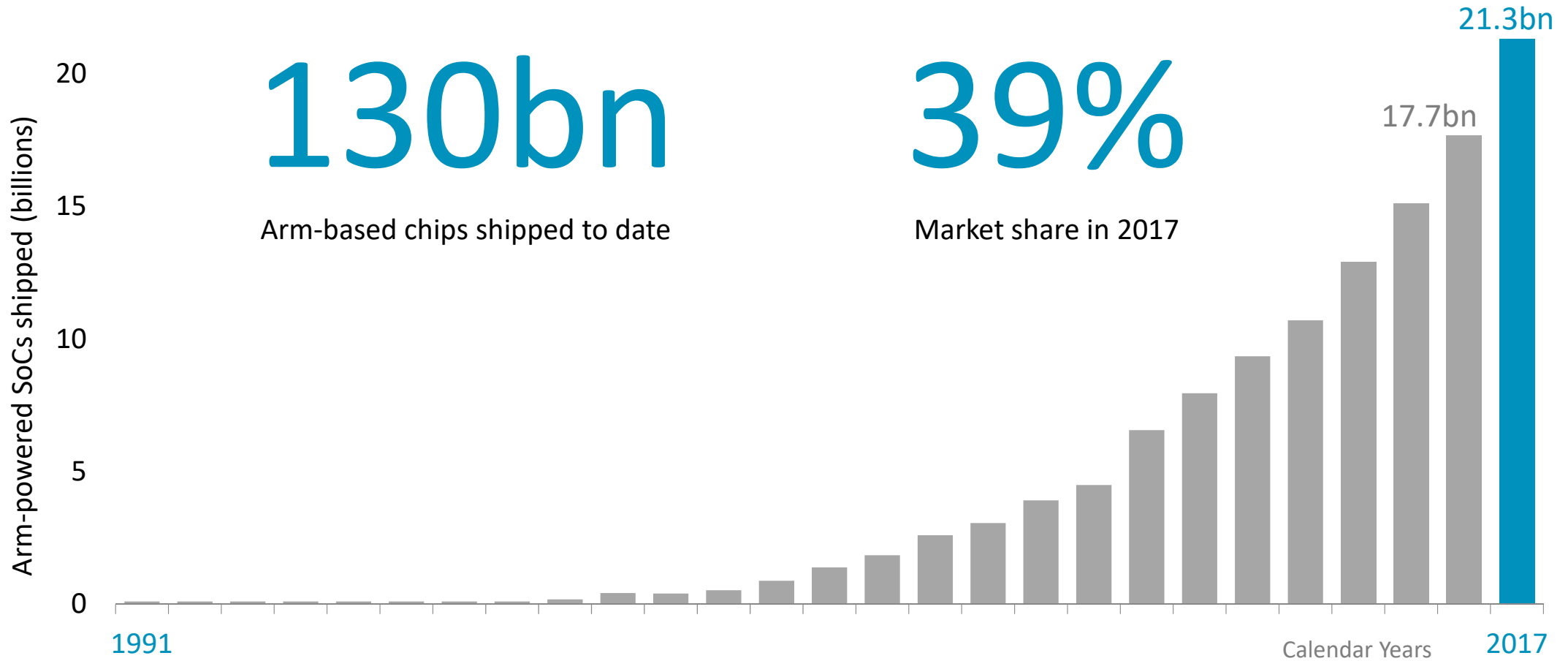
Arm-based chip shipments

130bn

Arm-based chips shipped to date

39%

Market share in 2017

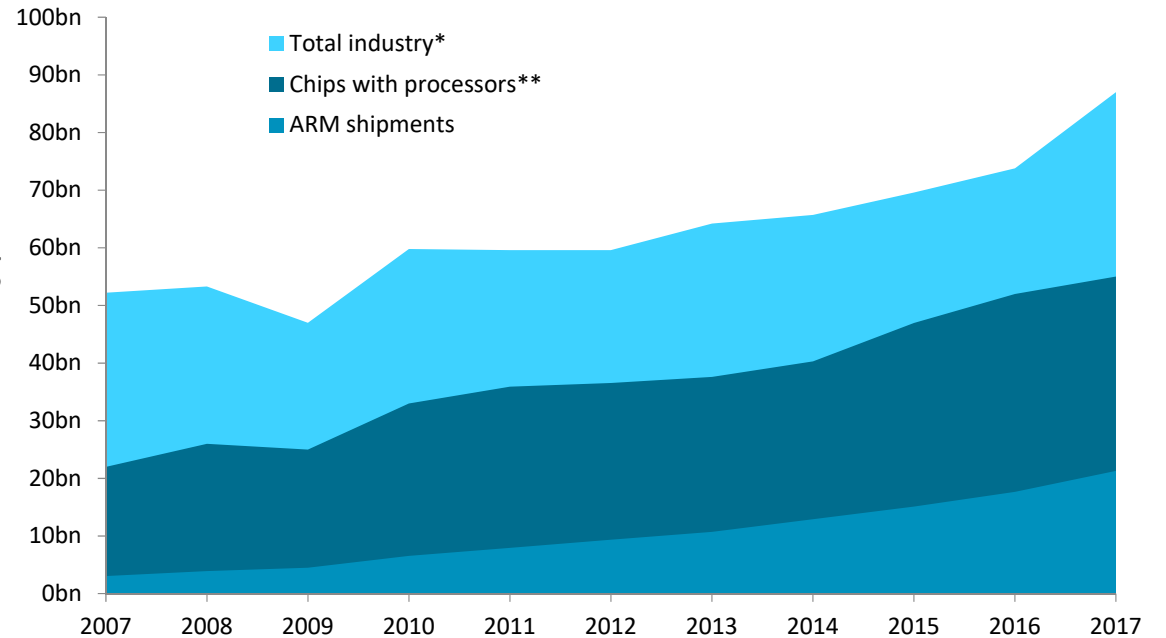


Arm's opportunity continues to broaden

Semiconductor industry continues to grow:
8% by volume, 3% by value over past five years

Proportion of chips with processors is increasing
over the medium term: 65% in 2017

Arm is gaining share within the “chips with
processors” segment of the industry:
39% in 2017



* Data source: WSTS, April 2018 and Arm,
Industry volume excluding analog and memory

** Arm estimates

Calendar years

From revenue to profits

FY 2017 Revenues	\$m	£m	%revs
Licensing	618	455	33%
Royalty	1,087	819	60%
Software and Services	126	94	7%
Total	1,831	1,368	100%
Costs (£m)		1,043	
Adjusted EBITDA (£m)		325	
Operating Margin		24%	
Other expenses (£m)		180	
IFRS EBIT (£m)		145	

Over 95% of revenues earned in US dollars

Royalties are a growing proportion of revenues

Cost increase as Arm accelerates investment in R&D for future product developments

10% move in \$/£ impacts profits by ~15% (forex impacts £ revenues *and* costs)

Operating margins will be lower than in recent periods as investments grow faster than revenues

Excludes amortisation of intangibles related to the acquisition of Arm by SoftBank

Qtr. ending Sept. 2018 – Financial summary

Revenues (\$m)	Q2 2017	Q2 2018	Growth
Licensing	123	124	1%
Royalty	271	285	5%
Software and Services	28	47	68%
Total (\$m)	422	456	8%
<hr/>			
Revenues (£m)	319	345	8%
<hr/>			
COGS (£m)	21	27	26%
R&D (£m)	130	167	28%
SG&A (£m)	95	133	40%
Costs (£m)	246	327	33%
Adjusted EBITDA (£m)	73	18	-75%
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Depreciation & amortisation	16	20	25%
Other operating (income) expenses (£m)	22	(87)	-
IFRS EBIT (£m)	35	85	146%

Licensing can fluctuate quarter to quarter. In Q2, lower revenues are primarily due to contract delays as Arm China was established.

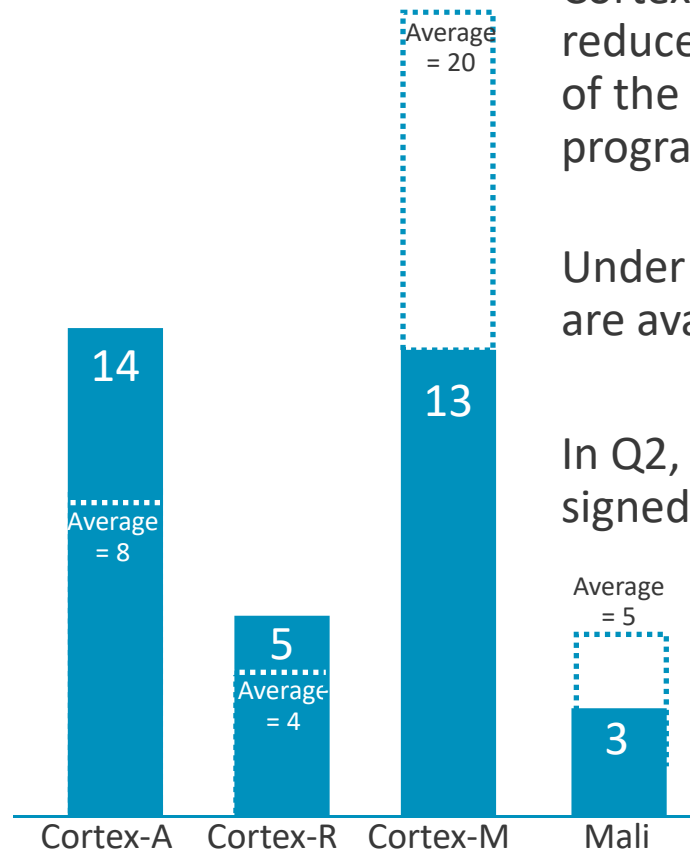
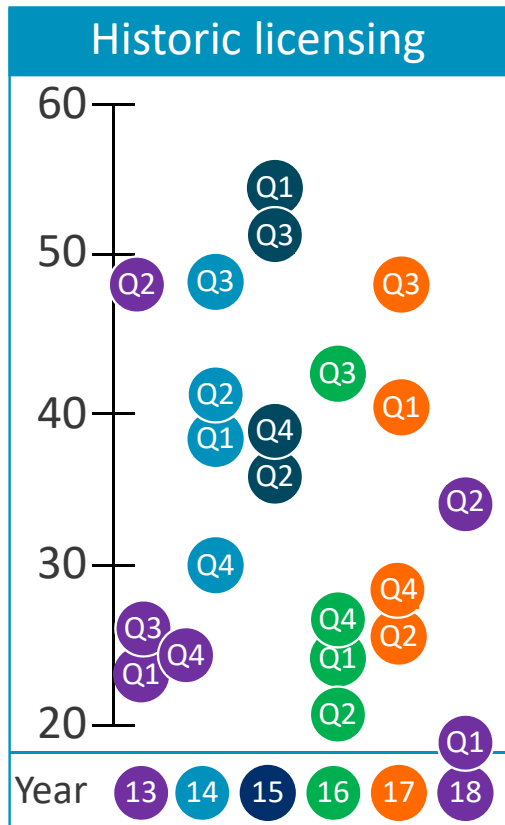
Royalty revenue growth driven by market share gains and increasing royalty per chip

Includes \$12m from recent acquisitions of Treasure Data and Stream Technologies

Includes FlexPot which previously fell into Q3

Additional consideration related to Arm China JV

Q2 Licensing: 35 is in the normal range



The number of licenses for Cortex-M processors has been reduced since the introduction of the DesignStart Pro (DS Pro) program in June 2017.

Under DS Pro Cortex-M processors are available for no upfront fee.

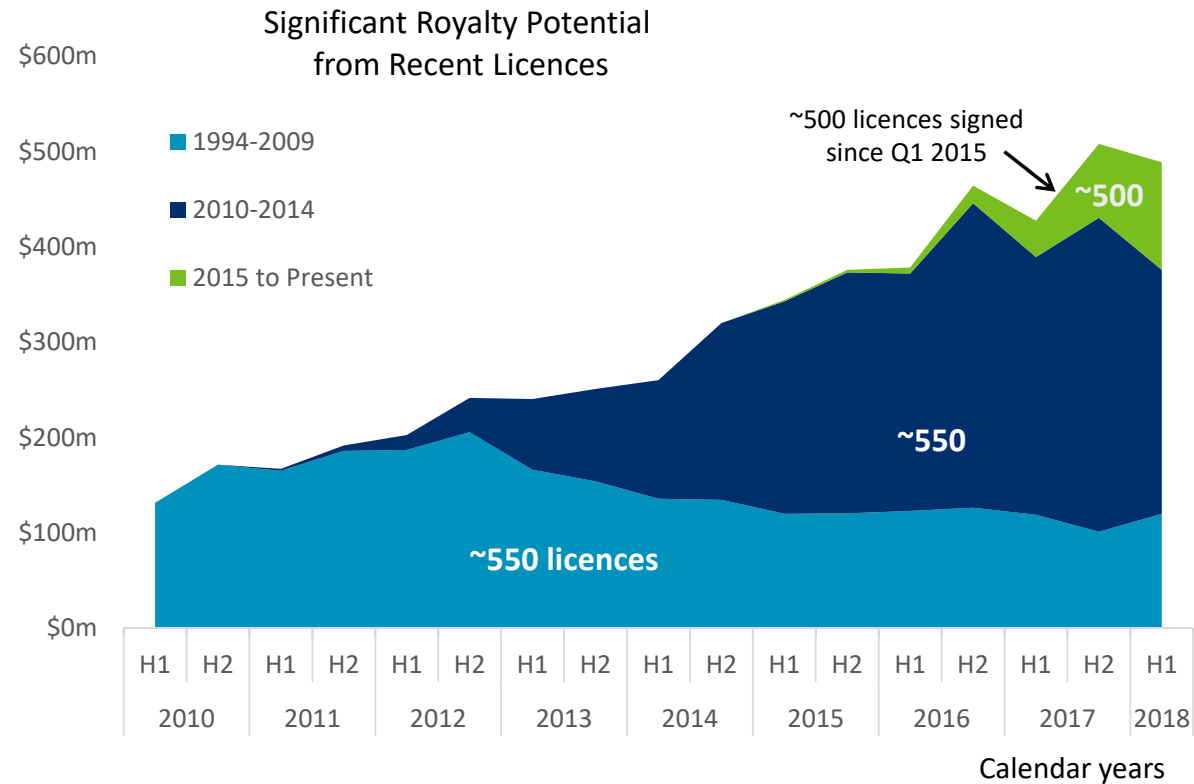
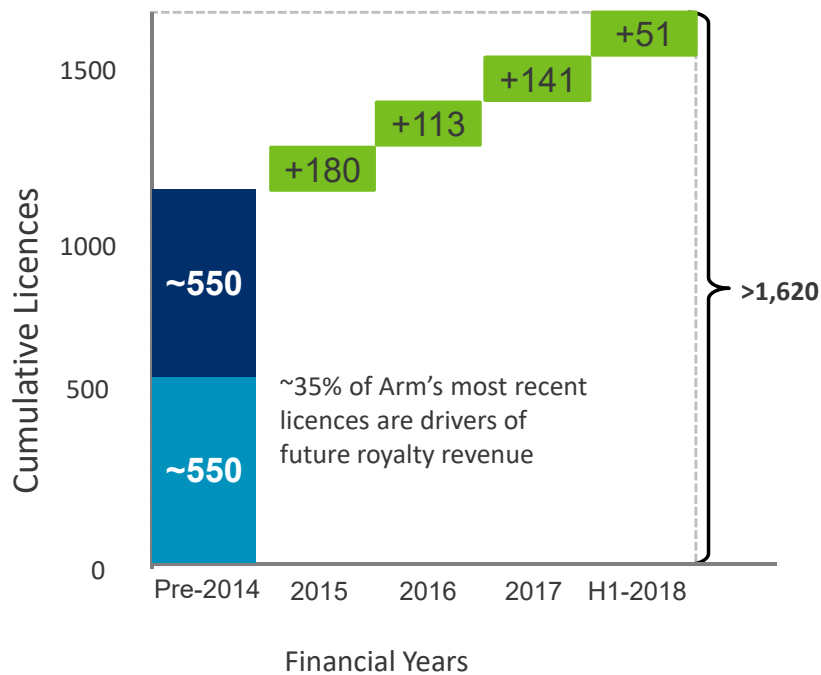
In Q2, 65 DS pro licenses were signed for Cortex-M processors

Licensing enables future royalties

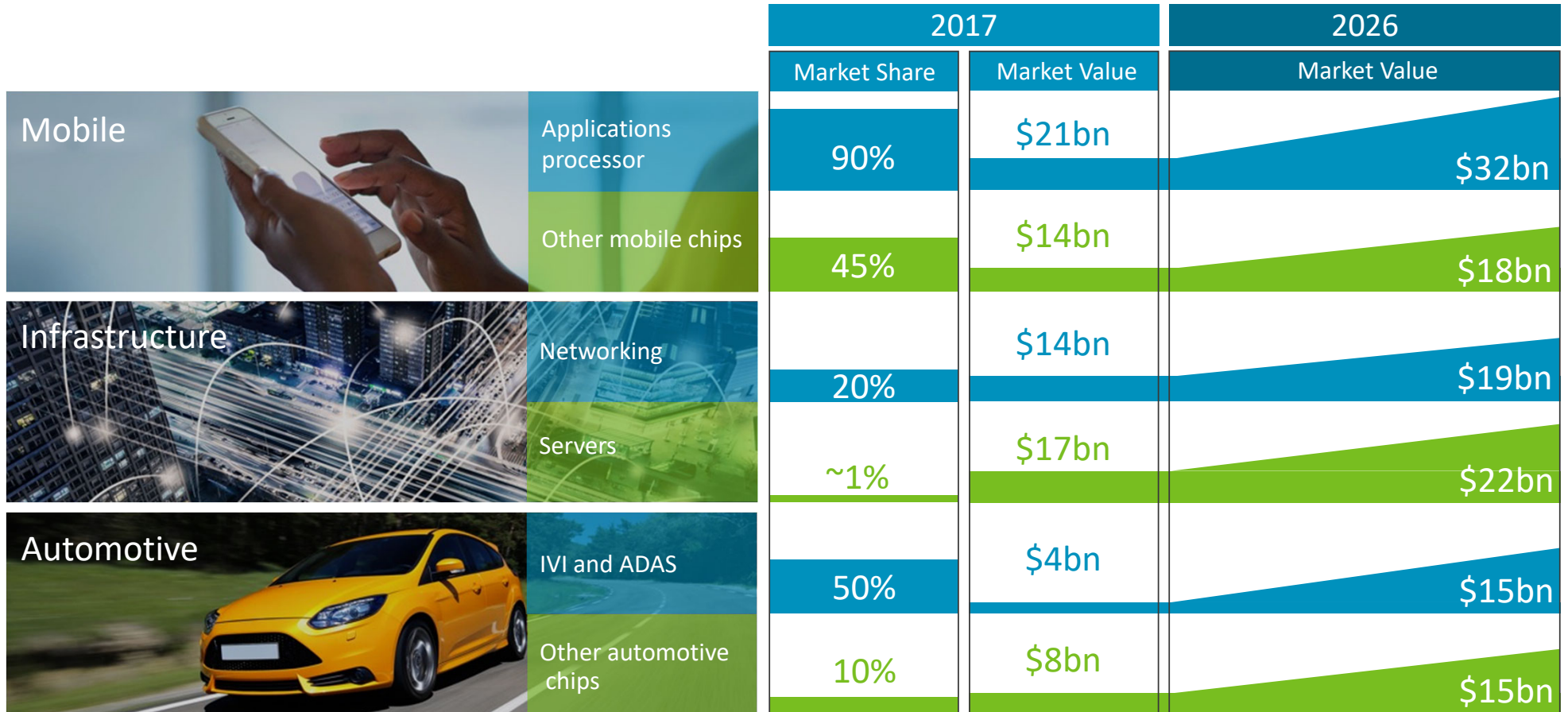
Arm signed 51 licences H1 2018

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

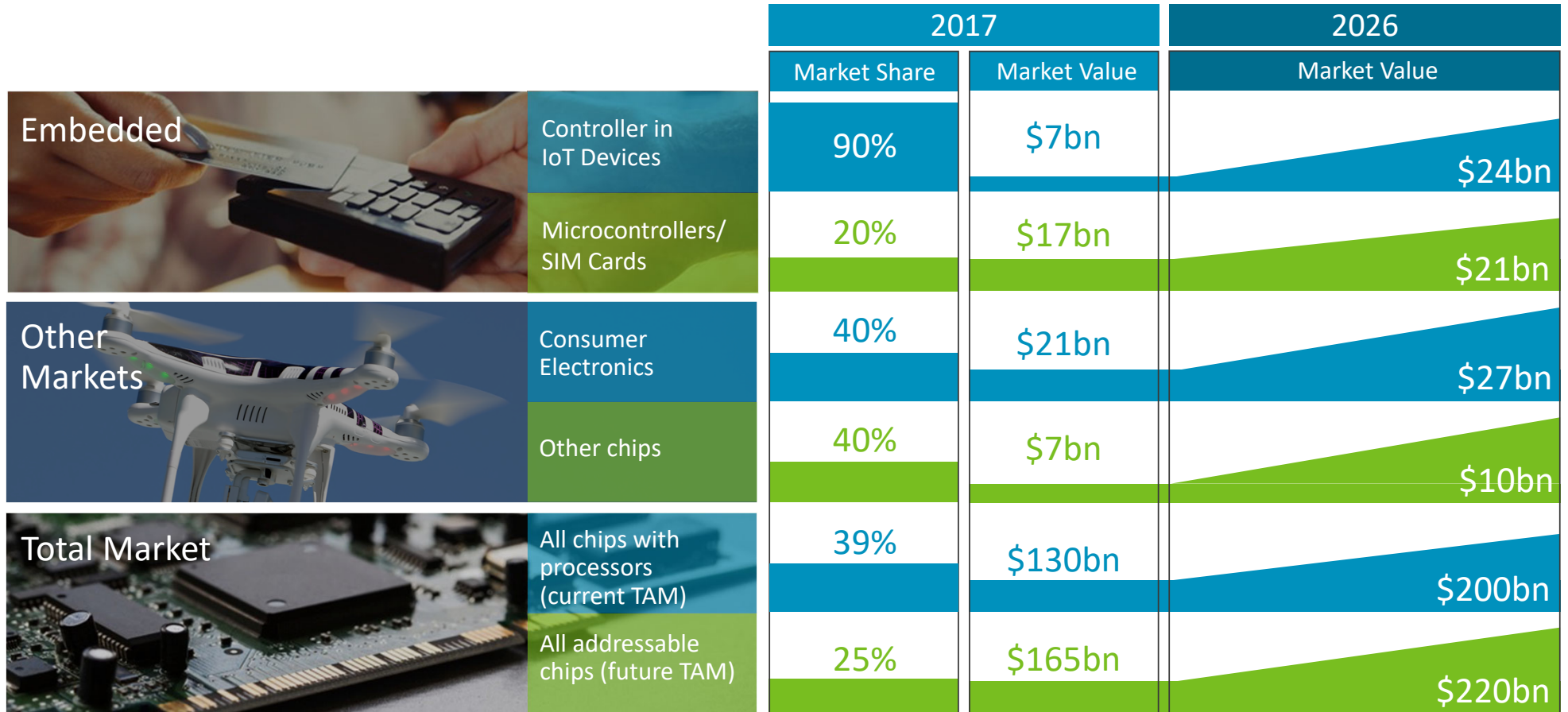
Growing base yields royalty revenues over long period



Arm's expanding opportunity



Arm's expanding opportunity



Establishing Arm China JV in Fiscal Q1 2018

Building a bigger business; built on strong foundations

>150

Licensees

10bn

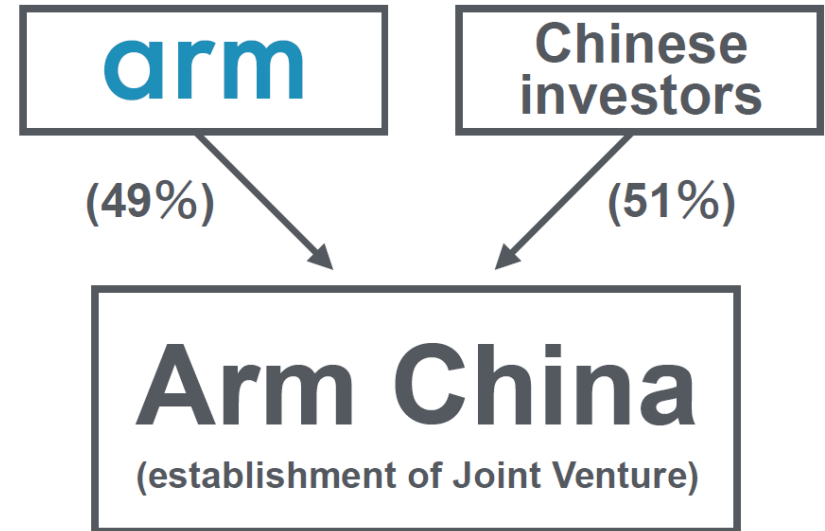
Chips shipped by Chinese partners using
Arm processor technology

95%

Chinese designed SoC based on
Arm processor technology

x140

Growth in volume shipment by Chinese
partners 2006-2017



Arm China will be able to better access new local technology opportunities, especially in server, smart meter/grids and IoT

Establishing Arm China JV in Fiscal Q1 2018

Building a bigger business; built on strong foundations

>150

Customers to novate from
Arm Limited to Arm China

341

Employees transferred
to Arm China in Q1

~20%

Arm's revenue came from
China in 2017

10-20

Licenses signed in a typical
quarter with Chinese customers

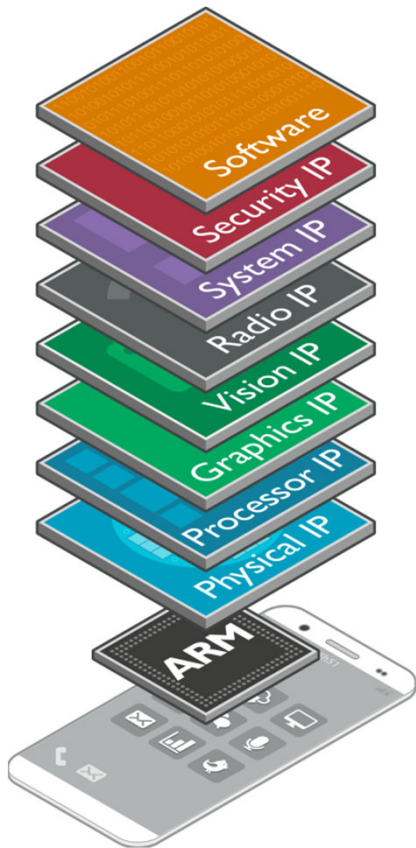
Arm China JV establishment was initiated in early Q1 2018 and completed at the end Q1

Novation (transfer) process on historical contracts resulted in a delay to contract signing in the H1 2018

As expected, licensing started to recover in Q2 and expected to get back to BAU by year end

Significant proportion of future revenues
will be passed back to Arm Limited

Arm's current business



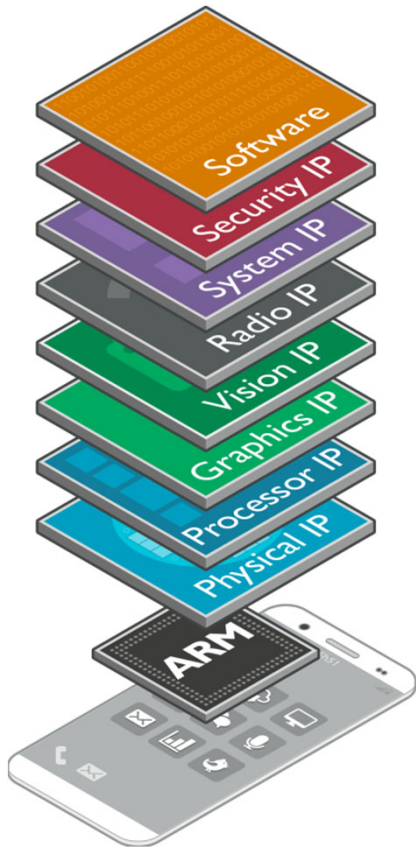
Arm develops **intellectual property** (IP) blocks which are used in silicon chips

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 profits and cash to be reinvested

Investing to create new revenue streams

- Arm Pelion IoT Platform SaaS business
- Early-stage investment but many years in research
- Securely connect and manage any device, using any communications technology, supporting any cloud platform
 - Device Management: secure device identification, on-boarding and configuring
 - Connectivity Management: manage IoT networks using standard-based comms
 - Data Management: Ingestion and aggregation of data



Arm Pelion Partners



ADVANTECH

TOSHIBA



arm

Arm IoT Services

Secure and scalable innovation from
Device to Data

- + > 30 PB of customer data managed
- + > 2 million records per second ingested
- + > 300K queries per day
- + 55 TB network data flow per month
- + Smart grid technology partnership with KEPKO, the largest electric power utility in South Korea
- + China Unicom partnership for China based services



800+
customers



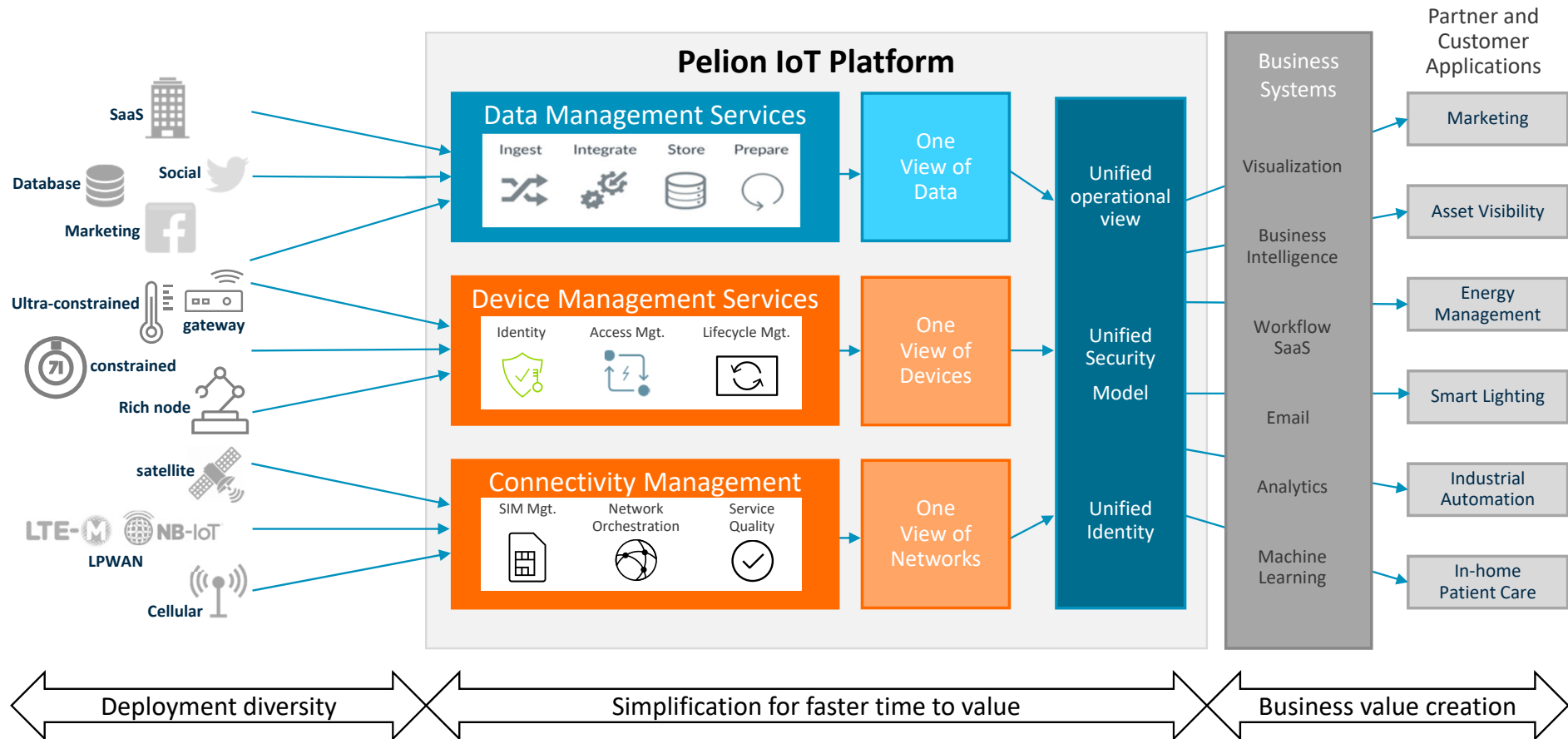
140+
Ecosystem partners



350k+
Developers

arm

Pelion IoT Platform Overview



Pelion Connectivity Management

Single pane of glass for easy connectivity management

One simple bill for global connectivity usage

Zero-touch onboarding of devices

Support for any network - LoRa, cellular, satellite

Built-in security, network resilience

The screenshot displays the Arm Pelion web interface for a specific device. The breadcrumb path is 'Home / Devices / 345692874'. A navigation menu on the left includes 'Inventory', 'Activate', 'Services', 'Devices', 'Billing', 'Statistics', 'Support', and 'Help'. The main content area has tabs for 'Details', 'Metadata', 'Network', 'Billing', 'Monitoring', 'Billing', 'Troubleshooting', and 'Analytics'. Below these tabs is a status bar with 'Stock' (highlighted in green), 'Active', 'Online', 'Transferring', 'Barred', and 'Terminated'. The 'eSIM Profile Details' section shows fields for ICCID (8944502101169598372), MSISDN (345692874), IMSI (234507092953739), Nickname (Rob Siminn Profile), Group (No Group), and Attached to (Unattached). An 'Edit' button is present. The '\$ Siminn eSIM Tariff on' section lists 'Line Rental' (€0.00), 'Activation Date' (23/02/2018 13:54), 'Contract Start Date' (23/02/2018 13:54), 'Contract Expiry Date' (23/02/2018 13:54), and 'Latest Invoice cost' (€0.00). The 'Services' section lists 'Default Services (cannot be modified)', 'GPRS', 'International Roaming ZONE_1', and 'Additional Services' with 'Add' buttons. Below are 'Bar SIM', 'Prevent deletion from eUICC', 'Prevent disabling from eUICC', and 'Enforce deletion from eUICC' with 'Add' and 'Remove' buttons. The '</> Advanced Network Information' section shows 'VLR Number' (447802000135), 'MSC Number' (447802000135), 'SGSN Number' (447802003348), 'SGSN IP Address' (158.230.229.001), and 'Mobile Network' (Unknown - Possibly H3G).



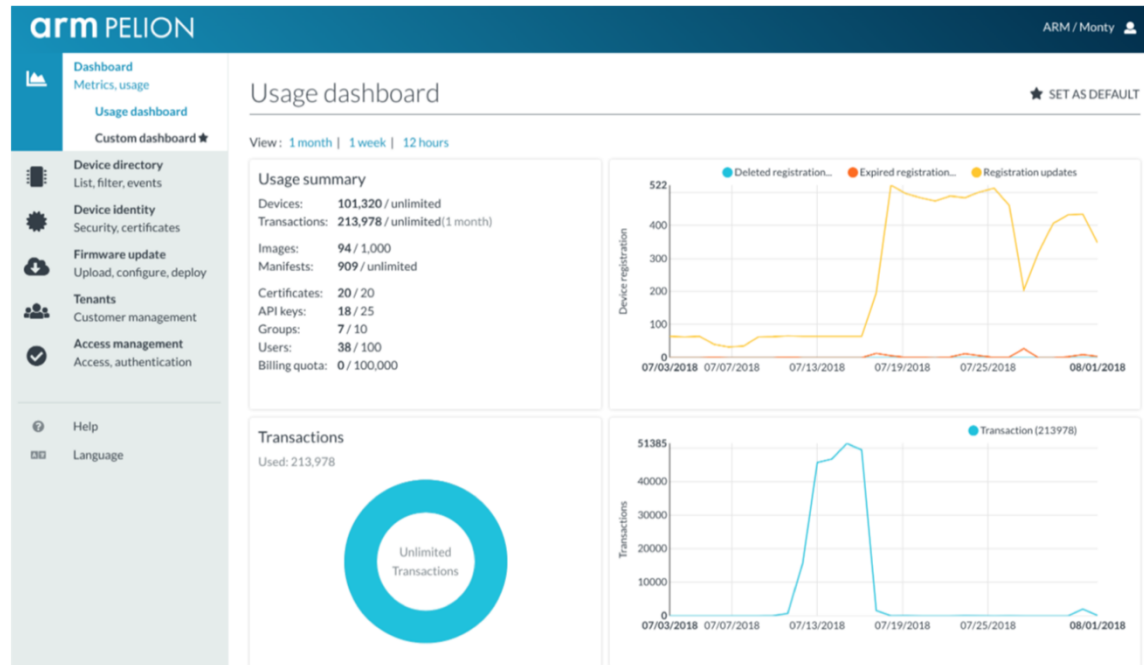
Pelion Device Management

Secure identity on-boarding, connection and lifecycle management services for all IoT devices

One simple portal interface for all IoT device management services

Support for any device, any vendor, and any cloud

Built-in security from device to cloud



Secure asset and identity provisioning



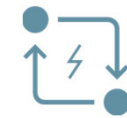
Energy efficient connectivity



Endpoint and gateway device management



Firmware deployment and update campaigns



Endpoint / Gateway compute and access management

Pelion Data Management

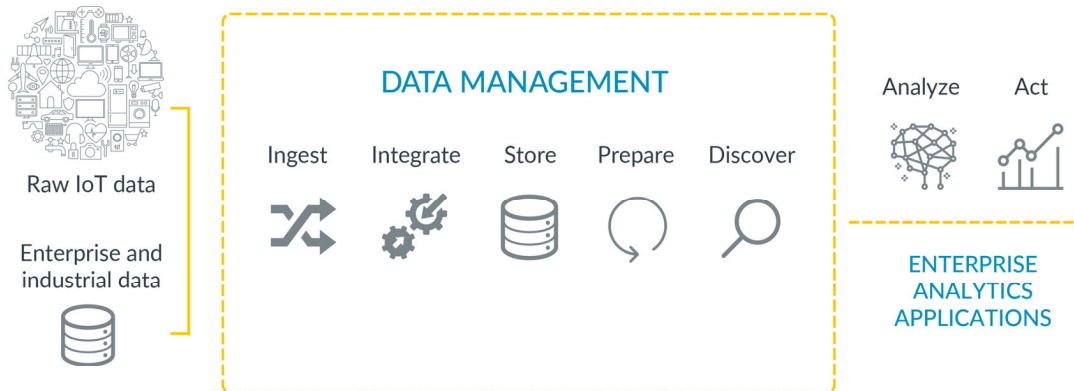
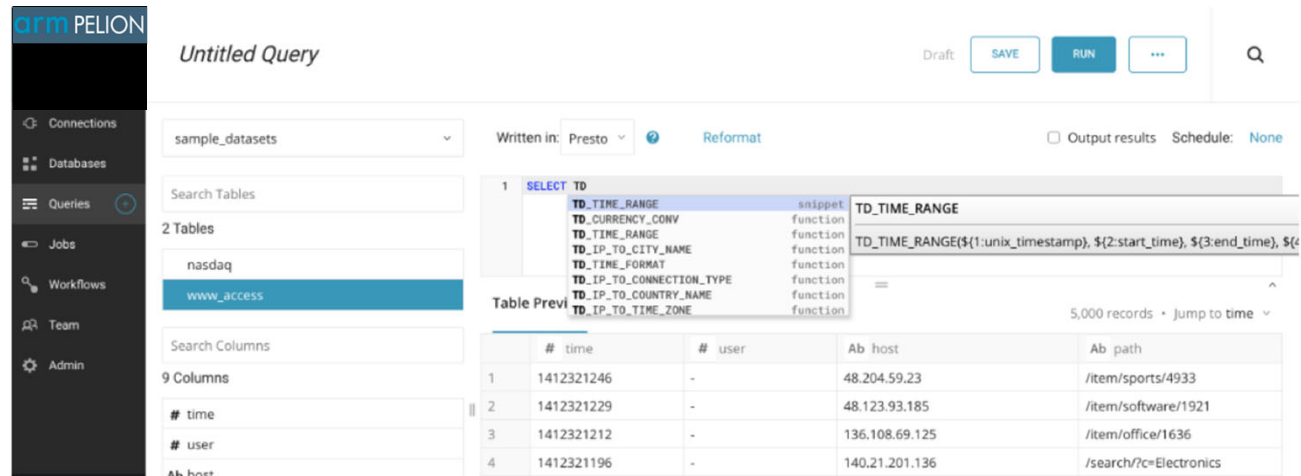
Collect and unify diverse data from heterogeneous devices, enterprise data and 3rd party sources

Security in trusted data - encryption in transition and at rest, control permissions

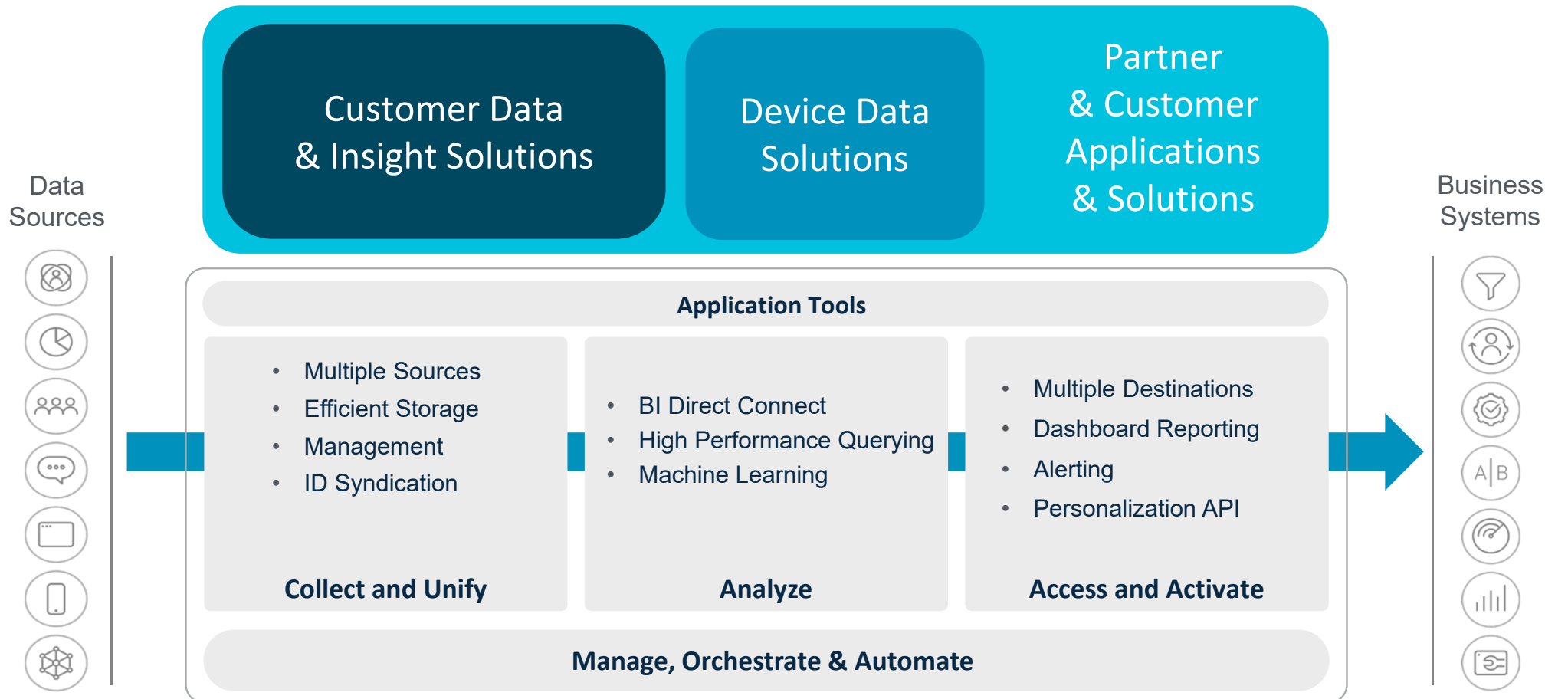
Rich ecosystem of data integrations

Fully managed solution that processes over 30 trillion records/day

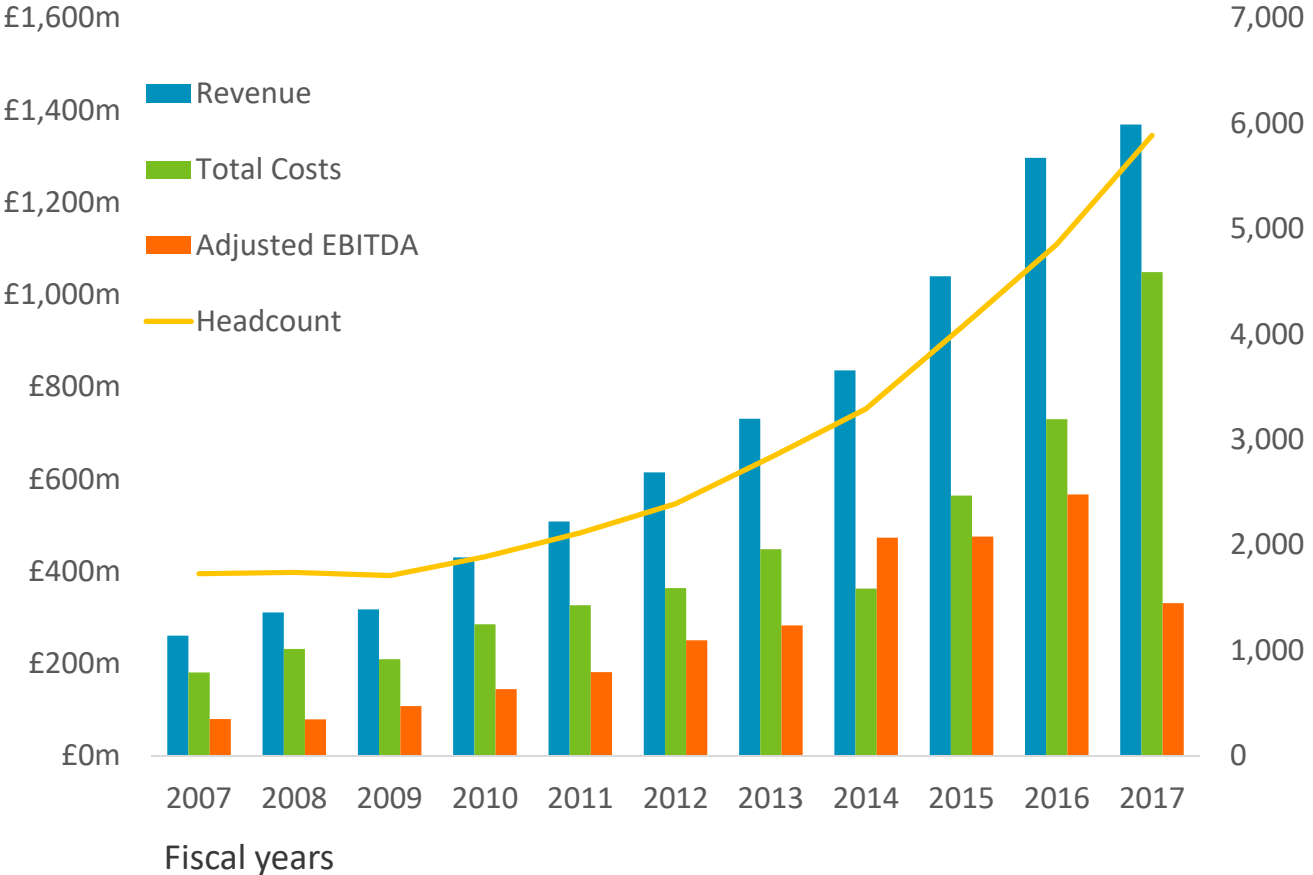
Reduces the complexity with iteration and exploration of data



Pelion Data Management



Revenues, investments and profits



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

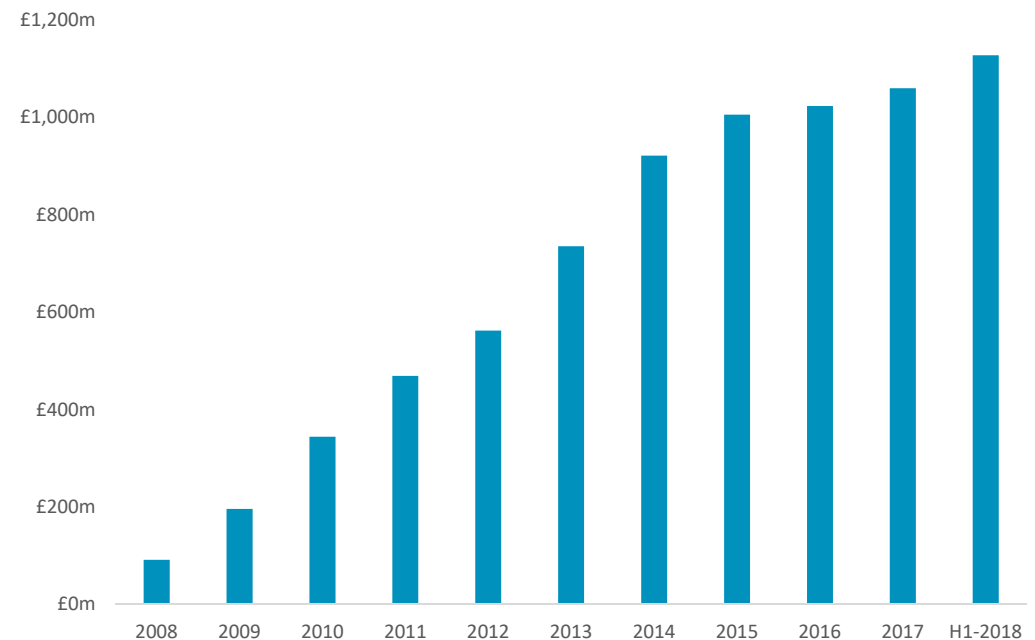
Investment philosophy

“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

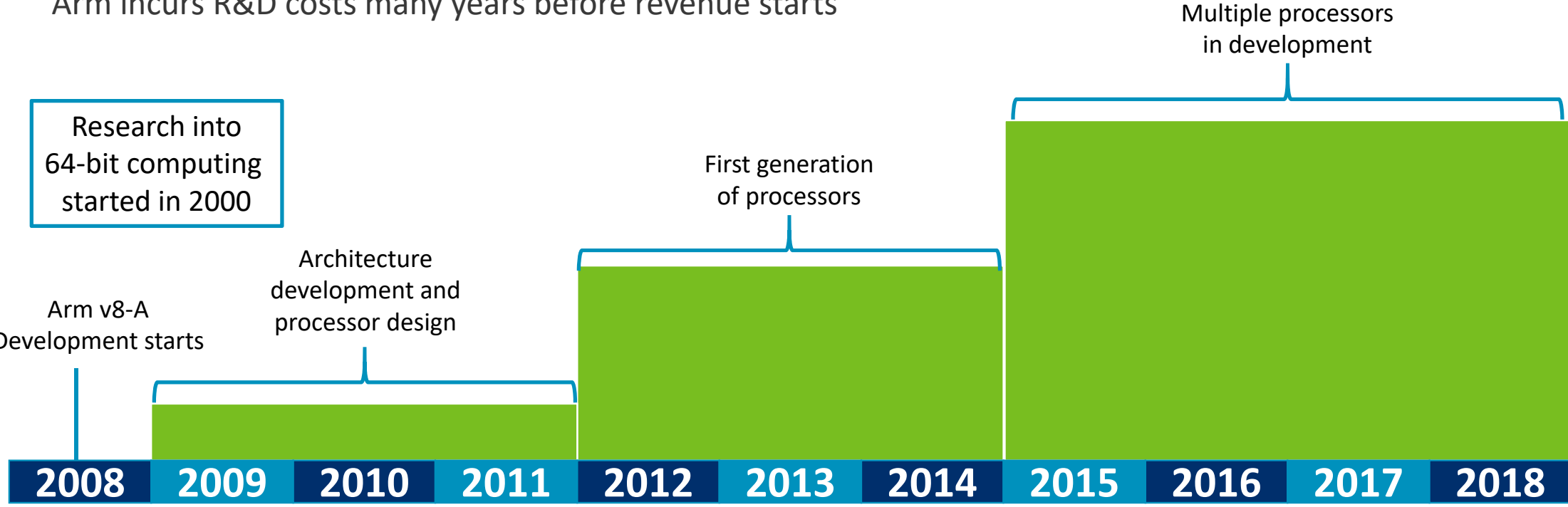
Arm has over £1.1bn of net cash and no debt

Increase in H1 2018 is due to sale of Arm's stake in the Arm China Joint Venture, net of the acquisition of Treasure Data Inc. and Stream Technologies Ltd.



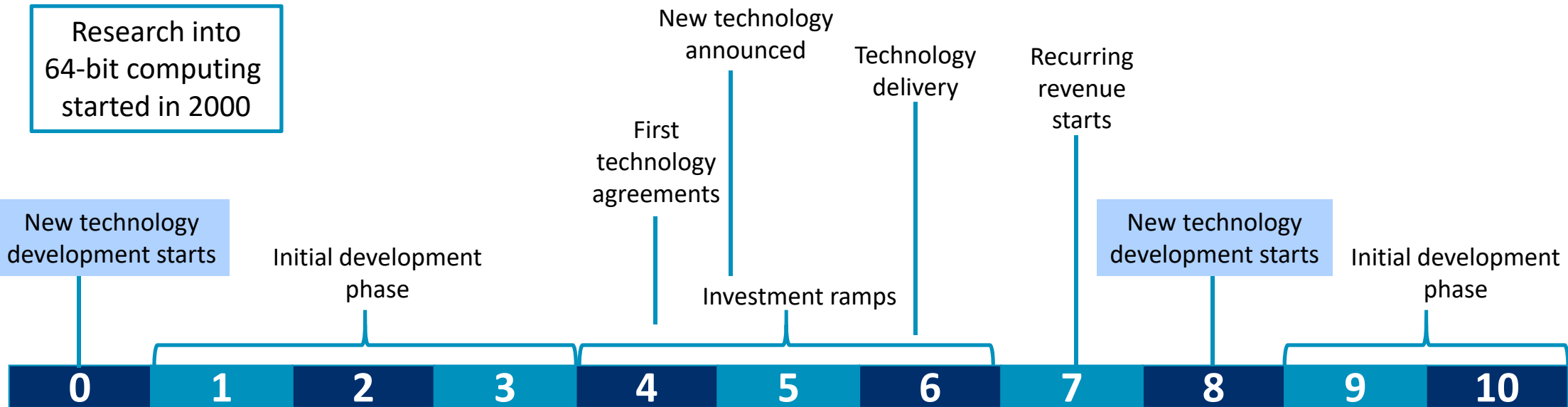
Return on Investments – Arm v8-A case study

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

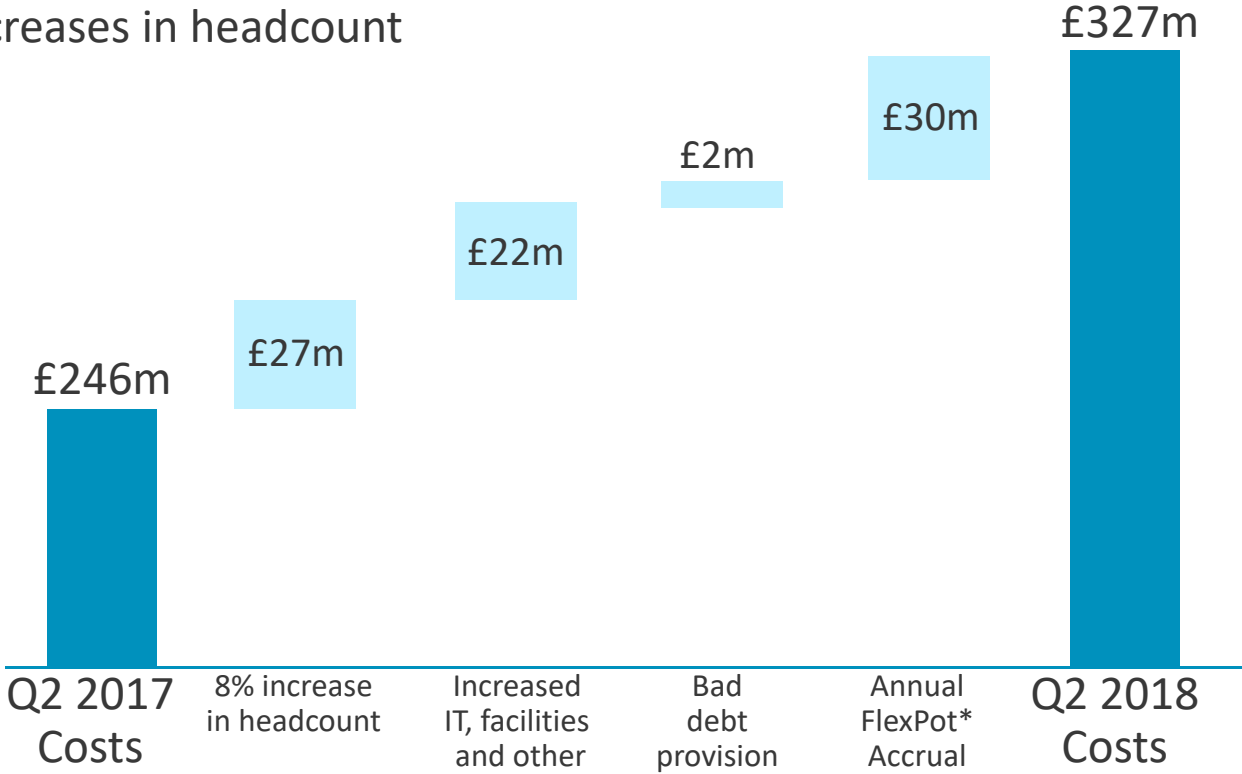


Revenue continues for many years after the investment phase, yielding high profits over time

Investing in people, infrastructure to create new products

Costs are higher in 2018 as Arm expands R&D capability

Cost increases are expected to be consistent with increases in headcount



*Part of Arm employee remuneration (for individual development)
In 2017 this accrual was in Q3.

Arm Investor Relations Contact

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More content available on

- Arm's website: <https://www.arm.com/company/investors>
- SoftBank Group's website: <https://group.softbank/en/corp/irinfo/>