## arm

## Arm Holdings plc Q3 FYE24 Results Presentation

Ian Thornton, Head of Investor Relations investor.relations@arm.com

https://investors.arm.com

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## Forward-Looking Statements

This presentation may contain certain "forward-looking statements," including statements regarding Arm's and its management team's expectations, hopes, beliefs, intentions or strategies regarding the future. Forward-looking statements are generally identifiable by statements that refer to projections, forecasts or other characterizations of future events or circumstances, including any underlying assumptions. The words "anticipate," "believe," "continue," "could," "estimate," "expect," "intends," "may," "might," "plan," "possible," "potential," "predict," "project," "should," "would" and similar expressions may identify forward-looking statements, but the absence of these words does not mean that a statement is not forward-looking. The forward-looking statements contained herein are based on Arm's current expectations and beliefs concerning future developments and their potential effects There can be no assurance that future developments will be those that we have anticipated. These forward-looking statements involve a number of risks, uncertainties (some of which are beyond Arm's control) or other assumptions that may cause actual results or performance to be materially different from those expressed or implied by these forward-looking statements. You should also carefully read the risk factors described in the final prospectus relating to our initial public offering, filed with the SEC on September 14, entitled "Risk Factors" for a description of the material risks that could, among other things, cause Arm's actual results to differ materially from those expressed or implied in our forward-looking statements. Except as required by law, Arm is not undertaking any obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.

## Non-GAAP Financial Measures

In addition to disclosing results determined in accordance with generally accepted accounting principles, or GAAP, this presentation includes certain non-GAAP financial measures that differ from measures calculated in accordance with GAAP, such as non-GAAP cost of sales, non-GAAP gross profit, non-GAAP research and development operating expenses, non-GAAP selling, general and administrative operating expenses, non-GAAP impairment of long-lived assets operating expenses, non-GAAP disposal, restructuring and other operating expenses, net, non-GAAP operating income (loss) from continuing operations, non-GAAP net income (loss) from continuing operations, free cash flow, and free cash flow TTM. These non-GAAP measures are in addition to, and not a substitute for or superior to, financial measures prepared in accordance with GAAP and should be considered in conjunction with, Arm's historical GAAP financial measures. These non-GAAP financial measures are presented for supplemental informational purposes only, should not be considered a substitute for financial information presented in accordance with GAAP, and may differ from similarly titled metrics or measures presented by other companies. A reconciliation of these measures to the most directly comparable GAAP measure is included at the end of these slides. Arm is unable to provide a reconciliation of certain non-GAAP guidance measures to the corresponding GAAP measures on a forward-looking basis because doing so would not be possible without unreasonable effort due to, among other things, the potential variability and limited visibility of the excluded items. For the same reasons, Arm is unable to address the probable significance of the unavailable information.

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Q3 FYE24 Results Summary

## Q3 FYE24 - Highlights



## $\$ 338 \mathrm{~m}^{(1)}$

Non-GAAP Operating Income up 17\% yoy 41.0\% Non-GAAP operating margin
\$724m
Trailing 12 Months FCF up 63\% yoy

## 7.7bn

Chips reported as shipped
280.3bn Cumulative chip shipments

[^0]
## 2024 Arm

## Q3 FYE24 - From Revenues to Profits to Cash



Note: Depreciation and amortisation for Q3 FYE24 was $\$ 42 \mathrm{~m}$

1. Non-GAAP Operating Income and Free Cash Flow are non-GAAP metrics. Please see the end of this presentation for a reconciliation of each to the most directly comparable GAAP metric
2. Q3 FYE24 Non-GAAP operating income of $\$ 338 \mathrm{~m}$ includes $\$ 23 \mathrm{~m}$ of employer taxes related to equity-classified awards vesting within the quarter, net of the research and development tax credit associated with these taxes. From Q4 FYE24, we will be excluding these taxes from our Non-GAAP presentation. Excluding this effect, Q3 FYE24 Non-GAAP operating income results would have been $\$ 361 \mathrm{~m}$, up $25 \%$ yoy, and Non-GAAP operating margin would have been $44 \%$.

## Q3 FYE24 - Revenue

-- Total revenue: \$824m up $14 \%$ yoy - Highest ever!
-- License and other revenue: $\$ 354 \mathrm{~m}$ up $18 \%$ yoy driven by five new ATA agreements and companies licensing highperformance CPUs etc. to embedded Al into every end device
-+ Royalty revenue: $\$ 470 \mathrm{~m}$ up $11 \%$ yoy with strong smartphone sales and Arm v9 penetration


## Q3 FYE24 - Royalty Revenue

-- Record royalty revenue up $11 \%$ yoy
$-\quad$ Semiconductor industry (WSTS) has been growing month on month since low point in February 2023; Arm has $\sim 50 \%$ market share of chips with processors and so is impacted by the same overall industry trends
-- Arm is benefitting from Armv9 penetration in smartphones and market share gains in cloud servers and automotive


## Q3 FYE24 - Annualized Contract Value

-- Annualized contract value increased during Q3 by multiple high-value, long-term ATA deals being signed


## Q3 FYE24 - Remaining Performance Obligations (RPO)

$-\quad$ Remaining performance obligations represent revenue that will be recognized in future periods
$-\quad$ RPO increased slightly in Q3 due to multiple high-value, long-term deals being signed


## Q3 FYE24 - Non-GAAP Cost of Sales and Operating Expenses

Cost profile includes prospective change to Non-GAAP reporting (see footnote)
-- Q3 FYE24 non-GAAP COGS was roughly flat yoy, whilst non-GAAP Opex grew 7\% yoy
$-\quad$ After adjusting Q3 FYE23 for cash settled share-based compensation and various one-off credits, underlying nonGAAP operating expenses grew 19\% yoy, similar to Arm's headcount growth for the same period


## Q3 FYE24 - Non-GAAP gross and operating profit

Cost and margin profile includes prospective change to Non-GAAP reporting (see footnote)

- Q3 gross profit and operating profit margins remaining over $95 \%$ and $40 \%$, respectively



## Q3 FYE24 - Chips reported as shipped

Chips Reported as Shipped


Chips shipped are reported one quarter in arrears current quarter is down $3 \%$ yoy and up $8 \%$ qoq, reflecting recovery seen by peers
-- Chip shipments relate to July to September quarter
-- Down 3\% yoy mainly due to mobile shipments gradually recovering from historical inventory builds in Sept-qtr, offset by growth in automotive
-- Up 8\% qoq reflecting the industry recovery

## Q3 FYE24 - Non-Financial Metrics

Arm Flexible Access
Arm Total Access

-- Arm Total Access up 5 to 27

- Target markets for these licensees include automotive, consumer electronics, loT/embedded and smartphones
- ATA licensees typically long-term Arm partners, 20 of the 27 are customers for +10 years, 11 for +20 years
-- Arm Flexible Access net up 6 to 218
- +50 renewals, 14 new agreements signed with companies developing wide range of applications: Al accelerators, edge servers, automotive applications, sensors, etc.


## Guidance

|  | Q4 FYE 24 | FYE 24 |
| :--- | :---: | :---: |
| Revenue $(\$ \mathrm{~m})$ | $\$ 850 \mathrm{~m}-\$ 900 \mathrm{~m}$ | $\$ 3,155 \mathrm{~m}-\$ 3,205 \mathrm{~m}$ |
| Non-GAAP Operating Expense $(\$ \mathrm{~m})^{1}$ | $\sim \$ 490 \mathrm{~m}$ | $\sim \$ 1,700 \mathrm{~m}$ |
| Non-GAAP fully diluted earnings per share $(\$)^{1}$ | $\$ 0.28-\$ 0.32$ | $\$ 1.20-\$ 1.24$ |

1. Non-GAAP presentation excludes employer taxes related to equity-classified awards vesting within the quarter, net of the research and development tax credit associated with these taxes. See Shareholder Letter for more information.

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## Q3 FYE24

Background on Arm

## Arm is Building the Future of Computing

-     - Arm is the world's most pervasive CPU architecture
-     - Everything today is a computer - CPUs needed everywhere
-_- Strong growth, highly profitable and cash generative company

Arm-based chips shipped since inception

### 30.6 Billion

Arm-based chips reported as shipped in FYE23

## 15M+

Software Developers on Arm

## The Foundation of the Semiconductor Industry



## What Have We Done Since 2016?



## CPU and subsystems for every target end-market


$\bigcirc$ Increasing performance
$\bigcirc$ Power efficiency
$\bigcirc$ Software ecosystem

## Infrastructure - Progressing our Strategy

Arm continues to gain market share within the cloud compute market as our customers increasingly adopt and deploy Arm CPUs into cloud server chips driven by the need for power efficient computing.
$\qquad$
Neoverse Compute Subsystem (CSS)
\& Arm Total Design
Arm Neoverse CSS integrated and verified
Arm IP allowing much faster time to market
Arm Total Design - complete ecosystem
committed to frictionless delivery of
custom SoCs based on Neoverse CSS


Microsoft announced Cobalt 100 for Azure data centers; 128 Arm Neoverse N2 cores developed with Neoverse CSS

Amazon announced Graviton4 for AWS; 96 Arm Neoverse V2 cores. 50\% boost over Graviton3


## High Performance Compute

Fujitsu announced 150 Armv9 core Monaka CPU for AI and cloud data centers.

Built on TSMC's 2nm, 3D chiplet design and disaggregated scalable architecture


## Automotive - Progressing our Strategy

The automotive semiconductor market is one of Arm's fastest growing opportunities and where we have been rapidly gaining market share.

|  | Recent announcements |  |
| :---: | :---: | :---: |
| Growth from Autonomous Driving | Growth from ADAS/IVI | Growth from automotive MCUs |
| AMD introduces Versal AI Edge for low latency AI inference for intelligence in automated driving and robotics applications. <br> With Arm Cortex-A72 and Cortex-R5F running the software and supporting AMD's accelerators and programmable logic. | Renesas announced next-gen R-Car for high computing performance and real-time processing requirements of ADAS. <br> Renesas has committed to making Armbased products available to its customers. | NXP announced the S32M2 family of energyefficient MCUs family for electric vehicles all based on Arm Cortex-M CPUs. <br> Allows for over-the-air software updates to extend software functionality and allow bug fixes |

## IoT/Embedded - Progressing our Strategy

Arm is already the leading CPU architecture for loT devices and embedded computers. Billions of loT and embedded devices are in use today gathering and analyzing vast new sources of data. Billions more will be deployed to help us solve complex issues, such as the managing the impact of climate change, improving urban infrastructure, accelerating supply chains, and making healthcare accessible to all.
$\qquad$ Recent announcements

## Growth in Low-End MCUs

Arm announced Cortex-M52, our smallest and most cost-efficient processor with the Helium vector processing extensions to accelerate ML/DSP


## Growth in High-End MCUs

Renesas announced the world's most powerful family of MCUs, the RA8 series, based on the Arm Cortex-M85 processor.

Cortex-M85 integrates Arm Helium technology to accelerate $\mathrm{Al} / \mathrm{ML}$ in edge devices.


## Growth in Embedded PCs

Raspberry Pi5 was launched, double the performance of the previous version and based on Arm Cortex-A76 CPU.

In addition, Arm announced that it had become a strategic investor in Raspberry Pi.

## Client - Progressing our Strategy

Our strategy is to develop and license more advanced technology such as CPUs based on its Armv9 architecture, and platforms that deliver additional functionality, higher performance, and higher energy efficiency in mobile and consumer computing devices. Arm's customers and end device consumers continue to demand these latest and greatest advances.
$\qquad$

## Al Smartphones

Al enabled smartphones based on the latest Arm Cortex-X4 are changing how we interact with our mobile devices.

Arm Cortex-X4 enables on device learnings, generative Al and LLM capabilities including image creation, live translation, and computational photography


[^1]
## Generative Al for edge devices

Google announced Gemini Nano for Arm based chips in mobile and CE devices; creates summarised transcripts of recordings and suggests replies for emails and messages

Compatible with ArmNN, Arm's AI interface for Android that is already in 700 m phones.


## Energy-efficient virtual assistant

Arm revealed "Cookie" an energy efficient LLM that can run on $90 \%$ of current smartphones on just the CPU.

On a mid-range smartphone, Cookie runs at faster than the average human reading speed and can run on $90 \%$ of smartphones


## Al on Arm is Everywhere



## Al - Progressing our Strategy

Arm is central to the acceleration of $\mathrm{AI} / \mathrm{ML}$ workloads everywhere. Whether its large language models being trained in the cloud or inference models being deployed at the edge, the need for efficient computing resources has never been more important

## Cloud / HPC

JUPITER supercomputer in Germany will be powered by 24,000 Arm-based NVIDIA GH200 Grace Hopper chips to accelerate creation of foundational AI models.

Jupiter can deliver 90 exaflops, $45 x$ the previous generation


Al enabled smartphones based on the latest Arm Cortex-X4 are changing how we interact with our mobile devices.

Arm Cortex-X4 enables on device learnings, generative AI and LLM capabilities including image creation, live translation, and computational photography


## IoT/Embedded

Arm announced Cortex-M52, the smallest, most area and cost-efficient processor for embedded AI-IoT applications

Utilising Arm Helium technology to accelerate DSP and ML algorithms for voice control, robotics and image processing


## Mobile

## Mobile - Strong Tie Between CPU \& Software



## Cloud and Automotive Follows the Same Trend

| Arm is supported in all major Linux Cloud Distributions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| ubuntu® | Red Hat <br> Enterprise Linux | OUSE | Wentos | (ebian |
| fedora ${ }^{\oplus}$ |  |  |  |  |
| ${ }^{\wedge}$ Covers 99\% of production deployed distributions |  |  |  |  |




## Unparalleled Software Ecosystem

## 15M

Developers on Arm, for Arm

1.5Bn

Ecosystem hours



Developer hours
$1^{\text {st }}$ decade of Armv8


Developer hours $1^{\text {st }}$ decade of Armv9
$\qquad$
android

## Green Hills <br> software

Microsoft

Red Hat
vmware


Linux $\Omega$
nVIDIA CUDA

## Arm is the Ubiquitous Choice



## Why Arm Continues to Grow



Number of cores per "high end" Arm-based chip

## Royalty: Gaining Share in a Massive and Growing Market

|  | Market Value ${ }^{1}$ (2020 to 2022) |  |  |  | Market Share ${ }^{1}$ (2020 to 2022) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - ${ }^{-}$ | MOBILE <br> APPLICATIONS | \$22bn | \$30bn | >99\% | >99\% |
| $\stackrel{+}{\text { ¢ }}$ | -- | OTHER <br> MOBILE | \$14bn | \$18bn | 69\% | 64\% |
|  | - | CONSUMER ELECTRONICS | \$46bn | \$47bn | 25\% | 32\% |
| $\stackrel{0}{ \pm}$ | - - | CLOUD COMPUTE | \$14bn | \$18bn | 7\% | 10\% |
| $$ | - - | NETWORKING EQUIPMENT | \$16bn | \$17bn | 19\% | 26\% |
| ¢ | - | OTHER <br> INFRASTRUCTURE | \$11bn | \$13bn | 9\% | 16\% |
| $\frac{\stackrel{0}{3}}{\frac{3}{3}}$ | - - | AUTOMOTIVE | \$11bn | \$19bn | 33\% | 41\% |
| $\stackrel{\vdash}{\circ}$ | -- | Iot \& EMBEDDED | \$31bn | \$42bn | 58\% | 65\% |
|  | -- | TOTAL OPPORTUNITY | \$166bn | \$203bn | 42\% | 49\% |

## Royalty Revenue: Arm is Gaining Share

Market Share by Chip Value



Other includes legacy and niche architectures such as:

* Proprietary architectures (68000, 80x51, AVR, Coldfire, PIC, PowerPC, RH850, etc.)
* Licensable and open-source architectures (Arc, Andes, Leon, MIPS, OpenPower, OpenRISC, RISC-V, Sparc, Tensilica, etc.)


## Royalty Revenue Provides a Platform for Long-Term Growth

Royalty revenue can continue for many years or decades


## Royalty-led Subscription Business Model

## Arm Total Access

Long term subscription-based access to an extensive portfolio of more than 300 CPUs , GPUs and other IP including Arm's latest products



## Arm Flexible Access

Low / no-cost subscription-based access to ~100 of Arm's most popular CPUs, GPUs and other IP Customers are free to experiment with products contained in the package


REPORTED

## License Revenue Growing Over Time

-|- Arm signs a small number of high-value deals and many lower-value deals
-1 A significant portion (approx. 40-60\%) of the deal value may be recognized on signature
-|- License revenue can be lumpy quarter to quarter
$-\mid$ ACV is the value of a contract divided by the duration of the contract in years
-- ACV removes the variability from license revenue and also aligns more closely to cash paid to Arm


## Arm's Financial Opportunity



1. Q3 FYE24 Non-GAAP operating income of $\$ 338 \mathrm{~m}$ includes $\$ 23 \mathrm{~m}$ of employer taxes related to equity-classified awards vesting within the quarter, net of the research and development tax credit associated with these taxes. From Q4 FYE24, we will be excluding these taxes from our Non-GAAP presentation. Excluding this effect, Q3 FYE24 Non-GAAP operating income results would have been

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Appendix


## Environmental, Social and Governance

## Using the power of technology to build a better world for everyone

## Decarbonising compute

-- Arm's high performance, energy-efficient technology has the potential to help reduce emissions from billions of devices from sensors to servers
-|- Arm is committed to achieving net-zero carbon emissions by 2030
Closing the digital divide
$-\quad$ Extending the benefits of technology to people and areas not currently prioritized
-- Arm Flexible Access is enabling 100's of companies to gain access to Arm technology at lower costs
-- Arm Education helps to close the skills gap by supporting more than 10,000 computer engineering courses at over 2,500 universities since 2013

## Intending to lead in corporate responsibility

$-\mid$ Demonstrated through our values and responsible business practices
-- Continuously developing our sustainability strategies

## Reconciliations: GAAP to Non-GAAP and Adjustments

Includes prospective change to Non-GAAP reporting
Arm Holdings ple
As of February 7, 2024
arm


## Reconciliations: GAAP to Non-GAAP and Adjustments... cont'd



## Reconciliations: GAAP to Non-GAAP and Adjustments... cont'd

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## Reconciliations: GAAP to Non-GAAP and Adjustments... cont'd



## Reconciliations: GAAP to Non-GAAP and Adjustments... cont'd

Arm Holdings plc
arm

|  | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | FY | FY | FY |
|  | 31-Mar | $30-\mathrm{Jun}$ | 30-Sep | 31-Dec | 31-Mar | 30 -Jun | 30-Sep | 31-Dec | 31-Mar | 31-Mar | 31-Mar |
| (in millions, except per share amounts) | FYE22 | FYE23 | FYE23 | FYE23 | FYE23 | FYB24 | FYB24 | FYE2 4 | FYE21 | FYE22 | FYE23 |

(1) For non-GAAP purposes, we adjust for those awards that are liability-classified but equity settled after the initial public offering. Liability-classified awards are remeasured at the end of each reporting period through the date of settlement to ensure that the expense recognized for each award is equivalent to the amount to be paid in cash or equity settled after the initial public offering.
(2) A summary of share-based compensation cost recognized on the Condensed Consolidated Income Statements is as follow:

Research and development
Selling, general and administrative

| - | 1 | 2 | 4 | 5 | 6 | 20 | 8 | 2 | 1 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 4 | 6 | 32 | 65 | 109 | 103 | 349 | 142 | 23 | 7 | 212 |
| $(5)$ | 6 | 12 | 34 | 50 | 49 | 149 | 49 | 29 | 18 | 102 |
| $(1)$ | 13 | 46 | 103 | 164 | 158 | 518 | 199 | 54 | 26 | 326 |

A summary of share-based compensation liability-classified cost recognized on the Condensed Consolidated Income Statements is as follows
Research and development
Selling, general and administrative
Total


This should be read in conjunction with the Shareholder Letter for the third quarter of the fiscal year ending March 31,2024 which will be available on the Investor Relations section of Arm's website. For more information and definitions of the Non-GAAP measures see the "Key Financial an Operating Metrics"s section in the Shareholder Letter. In addition to disclosing results determined in accordance with generally accepted accounting principles, or GAAP, certain of the results and financial information of Arm included in the Historical Quarters Datasheet may also disclose
certain non-GAAP financial measures. Non-GAAP financial measures are presented for supplemental information purposes only, should not be considered a substitute for financial information presented in accordance with GAAP, and may not align with similar financial measures presented by ur competitors, which may limit the ability of investors to assess our performance relative to certain peer companies. Investors are encouraged to review the reconciliation of non-GAAP financial measures contained within the Historical Ouarters Matrix with their most directly comparable GAAP financial results. We believe these non-GAAP financial measures provide useful information to investors and others in understanding and evaluating our results of operations, as well as provide a useful measure for period-to-period comparisons of our business performance.
(5) Employer taxes related to equity-classified awards, net of the research and development tax credit associated with these taxes have been recast in this Historical Quarters Datasheet for trend purposes although the Shareholder Letter for the third quarter of the fiscal year ended March 31,2024 does not reflect this change.


[^0]:    Notes:

    1. Included in Q3 FYE24 Non-GAAP operating income results of $\$ 338 \mathrm{~m}$ is $\$ 23 \mathrm{~m}$ of employer taxes related to equity-classified awards vesting within the quarter, net of the research and development tax credit associated with these taxes.
    
[^1]:    23 © 2024 Arm

