

# ARM Holdings plc Q2 and H1 2010 Results



27 July 2010 London



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# **Business Update**

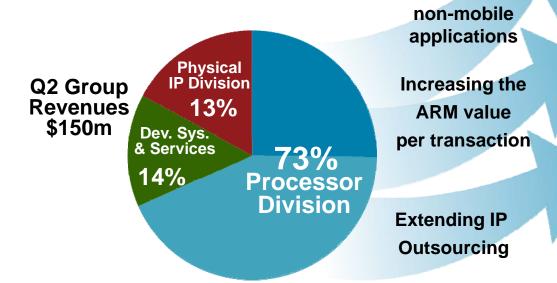
# Warren East Chief Executive Officer





# Q2 2010 Highlights

- ARM strategically well positioned for long-term growth
  - Outperformed the semiconductor industry through the cycle
  - Gaining share in end markets with structural growth drivers
  - Influential market leaders adopting ARM technology increases long-term growth opportunity in multiple end markets
- Physical IP strategy on track
  - TSMC licenses advance technology for 28nm and 20nm nodes
- Group backlog at record levels after strong Q2
- Financial discipline delivering profits and cash



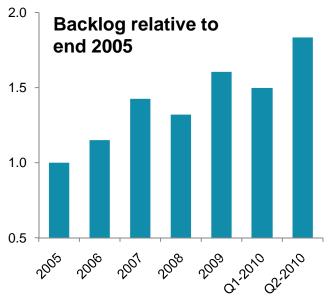


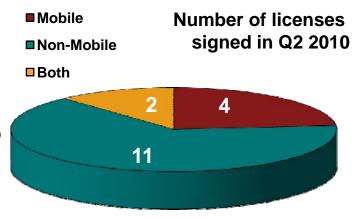


**Growth in** 

# **Processor Licensing**

- Q2 revenues at \$36.6m, strong booking quarter <sub>2.0</sub>
   drives backlog to record levels
- Base of licenses grows to over 690 with 17 licenses signed in the quarter
  - Microsoft signs an architecture license extending long-term collaboration
  - 5 licenses for Cortex<sup>TM</sup>-A class processors including a third lead licensee for "Eagle"
  - 6 licenses for Cortex-M class mainly going into microcontrollers
  - Three further commitments to Mali graphics technology – licenses total now 29
- Non-mobile is strong driver for licensing
  - DTV, microcontrollers and smartmeters
- Mobile opportunity as new customers develop first ARM based chips for mobile phones and mobile computers







### **Microsoft Architecture License**

- Microsoft have licensed the ARM architecture
  - Collaborating on advanced technology for over
     13 years in mobile and consumer electronics



- Multi-year license enables Microsoft to be at the forefront of working with ARM technology, across a broad range of businesses, addressing multiple application areas
- Architecture license allows customers to build their own ARM-compatible processor

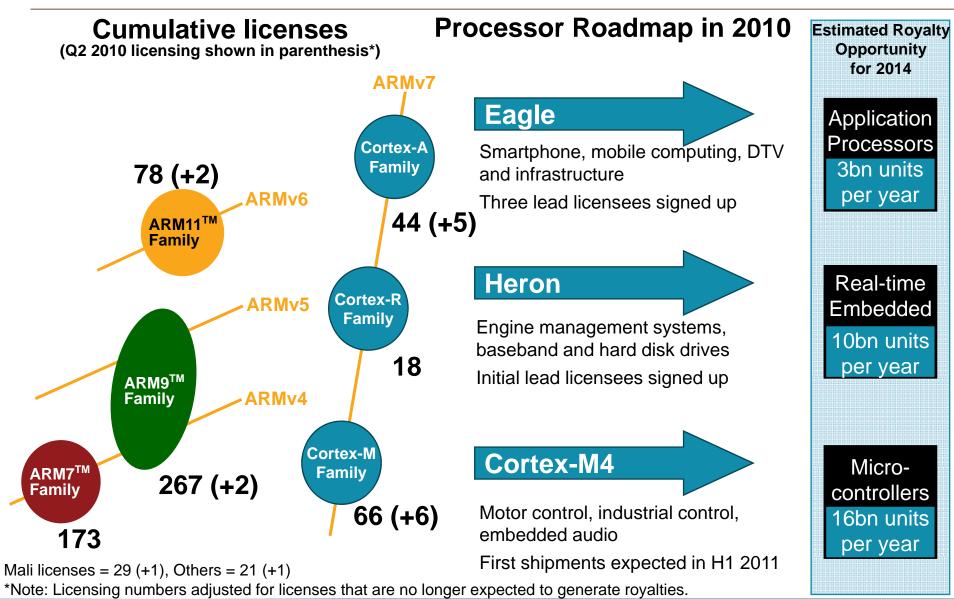








# **Growing the Licensing Base**

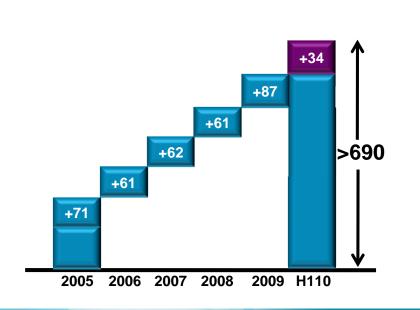


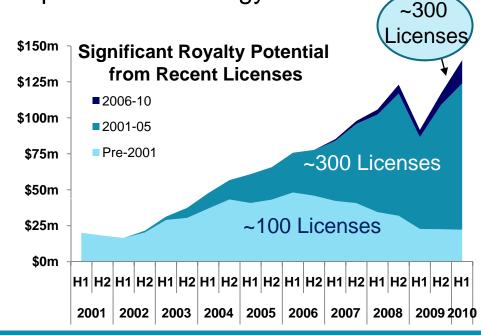


# License Base Delivers Royalty Growth

- Each license can yield royalty revenues over very long period
- ARM's royalty revenue opportunity grows as:
  - New licensee starts to sell their first ARM-based chips
  - Existing customer starts to deploy ARM in a new division
  - ARM-based chips gain share and become the universal platform

New types of customer start to adopt ARM technology

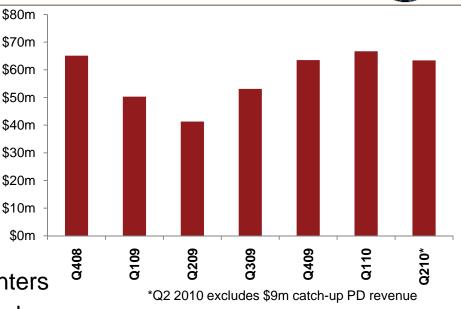




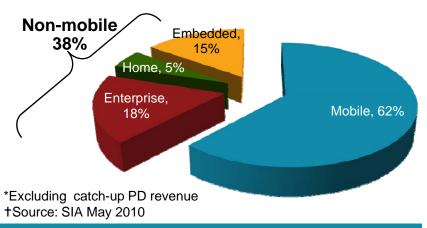
# **Processor Royalties**



- Q2 royalty revenue\* increases ahead of industry in the relevant period\*
- Q2 units nearly double YonY
  - Cortex up 10 fold and represents 6% of all unit shipments
    - Cortex-A into mobile computers and smartphones
    - Cortex-R into disk drives and printers
    - Cortex-M into microcontrollers and wireless networking
  - Cortex-A typically at higher royalty percentage per chip
- Average royalty per chip 4.5c vs
   4.8c in Q1 due to strong growth in Bluetooth, microcontrollers and wireless networking

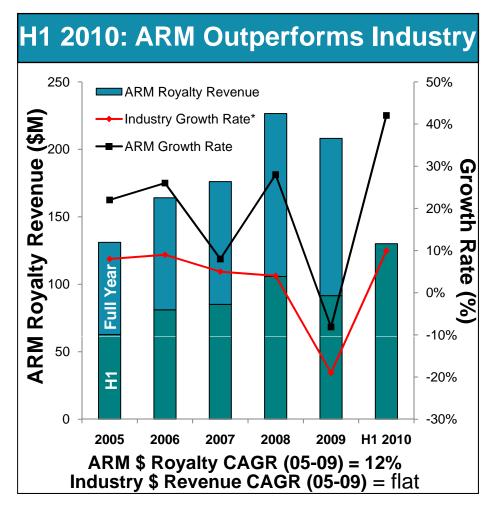


#### **Q2 2010 Royalty Unit Split**





# **Royalties Outperform Industry**



Q2 2010: 1.4b units up ~95%

Industry units (ex-memory)\* up ~40%

ARM mobile shipments up >50%

Industry shipments into mobile phones growing about 40% year-on-year

ARM digital TV shipments up >100%

Strong market share gains with market growing about 30% year-on-year

**ARM microcontroller shipments up >100%** 

Strong market share gains with MCU market growing about 80% year-on-year

Advanced processor reported shipments

Cortex units

up ~10 fold

\* Source: SIA May 2010 Offset 1 quarter to align with ARM's royalty revenue



# Investing in the Software Ecosystem

 ARM invests in the ecosystem needed to create a rich and diverse community of third party developers around ARM processors

 Linaro collaboration provides common optimised Linux OS kernel and tools for Cortex-A based chips from multiple suppliers



- Easier for semis and OEMs to support multiple Linux distributions
- ARM invests across ecosystem
  - Over a decade of collaboration with Microsoft
  - Adobe Flash 10.1 now shipping
  - CMSIS standard for Cortex-M based microcontrollers







#### Recent ARM Powered Products

#### **Internet Connected Screens**

3bn in 2014









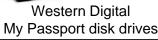


SkyViia Digital Media Adopter People of Lava Android TV

**Real-time Processors** 

10bn in 2014







Dell Streak



Parrot AR Drone



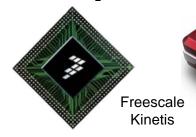
**HP DeskJet** 



HTC Desire

**Embedded Computers** 

16bn in 2014







Hyundai Sonata Centre Console



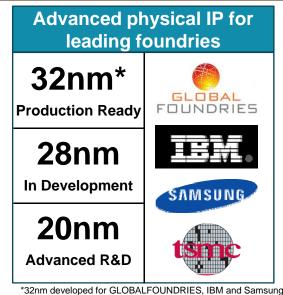
Itron Openway **Smart Meter** 

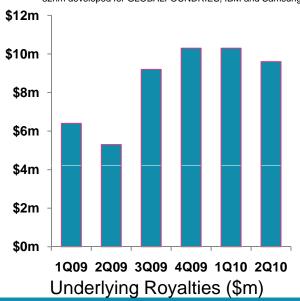


# Physical IP

13% Q2 group \$revs

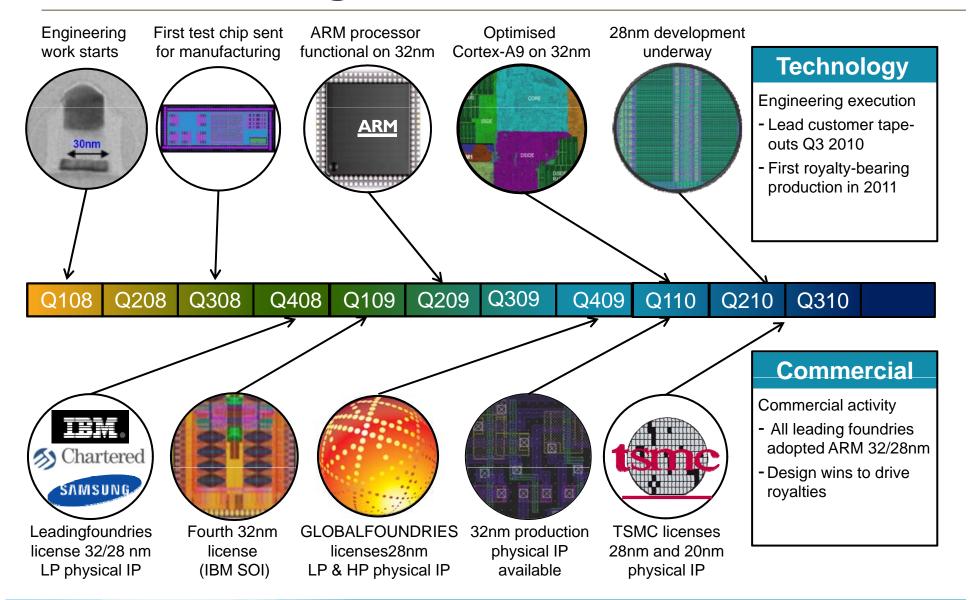
- Three new platform licenses in Q2 drives long-term revenue
  - Platforms at 45nm, 65nm and 130nm
  - More mature nodes allow more reuse, increasing profitability
- Early in Q3, TSMC licenses advanced physical IP platform at 28nm and 20nm
  - Includes high performance and low power process variants
- All major foundries have licensed ARM's physical IP at 32nm and/or 28nm
- Q2 royalty revenue \$9.8m
  - Underlying Q1 royalties at \$9.6m up ~80% on Q209







# 32/28nm Program on Track



# PIPD's Market Development

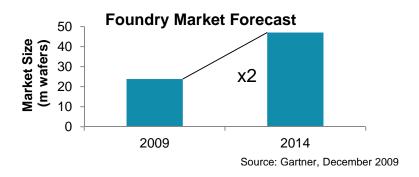
- PIPD market share has grown steadily
  - All major foundries licensed physical IP
- Foundry wafer volume expected to double as IDMs continue to outsource
- ARM well positioned for long-term royalty growth
  - Advanced foundries signed up for geometries at 45nm and below
  - Leading fabless semis starting to make outsourcing decisions
- Creates opportunity for growth as advanced nodes are forecast to become fastest growing nodes

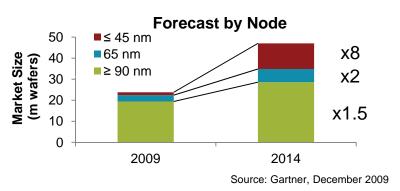
#### 

2008

2009

\* 200mm equivalent wafers







0%

2007

## Summary

- Influential market leaders adopting ARM technology
  - Freescale, Microsoft, TSMC
- ARM is gaining share in long-term growth markets
  - Mobile devices, Digital TV, Disk drives, and Microcontrollers
- ARM has the best business model, technology and ecosystem for this time
  - Outperforming industry, royalty up 50%, driving profitability and cash generation, enabling investment in R&D and ecosystem for future growth



# **Financial Update**

# Tim Score Chief Financial Officer





## **Q2 2010 Financial Highlights**

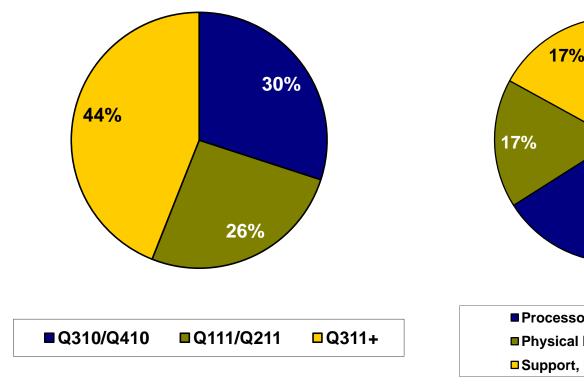
- Strong licensing quarter
  - 17 processor deals and 3 physical IP platform licenses
  - Several licenses built backlog
    - Microsoft architecture license and Eagle lead license
  - Backlog up more than 20% sequentially and more than 50% year-on-year
- Broad adoption of ARM technology drives royalty revenue
  - Underlying royalties up over 50% on last year
  - \$9m catch-up PD royalty reported in Q2
- Accelerating investment in new technology development
  - Normalised opex expected to be £53-55m in Q3 (assuming Q2 fx rate)
- Margin expansion yielding strong net cash generation
  - £74.3m in H1 2010 vs £27.1m in H1 2009
  - Interim dividend increased by 20%

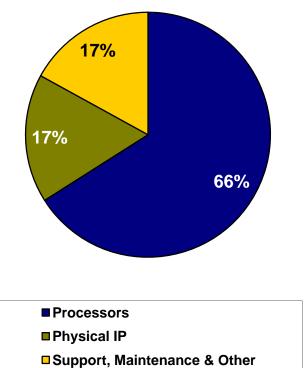


# Backlog Analysis – End Q2 2010

#### **Backlog by Maturity Profile**

#### **Backlog Composition**







## **Summary and Outlook**

- Continued execution of ARM growth strategy in H1 2010
  - Broadening adoption of ARM processor and physical IP technology
  - Market share gains in target end-markets
- ARM is well-positioned going into H2 2010
  - Record order backlog
  - Opportunity pipeline remains robust
  - Market-share gains look set to continue
  - Impact of macroeconomic environment on end-consumer demand later in the year remains uncertain
- Reiterating confidence in FY2010 revenues
  - Expect group dollar revenues, excluding catch-up PD royalty revenues of \$9m reported in Q2, to be in line with current market expectations



# Q&A



# **Appendix**



# **Q2 2010 – Revenue Summary (\$)**

	Q2 2010	Q2 2009	
	\$m	\$m	
PD			
Licensing	36.6	29.5	24%
Royalties†	72.5	41.3	76%
PD Total	109.1	70.8	54%
PIPD			
Licensing	10.4	9.2	13%
Royalties*	9.8	7.8	25%
PIPD Total	20.2	17.0	19%
Development Systems	13.4	10.3	30%
Services	7.6	7.4	4%
Total Revenue	150.3	105.5	42%

<sup>†</sup> Includes catch-up PD royalties in Q2 2010 of \$9.0m and in Q2 2009 of nil \* Includes catch-up PIPD royalties in Q2 2010 of \$0.2m and in Q2 2009 of \$2.6m



# Q2 2010 – Revenue Summary (£)

	Q2 2010	Q2 2009	
	£m	£m	
PD			
Licensing	23.7	16.8	41%
Royalties†	49.3	26.8	84%
PD Total	73.0	43.6	67%
PIPD			
Licensing	6.7	5.2	29%
Royalties*	6.6	4.9	34%
PIPD Total	13.3	10.1	31%
Development Systems	8.9	6.5	38%
Services	4.8	4.6	5%
Total Revenue **	100.0	64.8	54%



<sup>†</sup> Includes catch-up PD royalties in Q2 2010 of £6.2m and in Q2 2009 of nil
\* Includes catch-up PIPD royalties in Q2 2010 of £0.1m and in Q2 2009 of £1.6m
\*\* US \$/£ effective rate of \$1.50 in Q2 2010 and \$1.63 in Q2 2009

# **H1 2010 – Revenue Summary (\$)**

	H1 2010	H1 2009	
	\$m	\$m	
PD			
Licensing	70.8	61.5	15%
Royalties†	139.2	91.6	52%
PD Total	210.0	153.1	37%
PIPD			
Licensing	19.2	17.9	7%
Royalties*	20.6	15.9	29%
PIPD Total	39.8	33.8	18%
Development Systems	28.2	24.8	13%
Services	15.6	14.7	7%
Total Revenue	293.6	226.4	30%

<sup>†</sup> Includes catch-up PD royalties in H1 2010 of \$9.0m and in H1 2009 of nil \* Includes catch-up PIPD royalties in H1 2010 of \$0.7m and in H1 2009 of \$4.2m



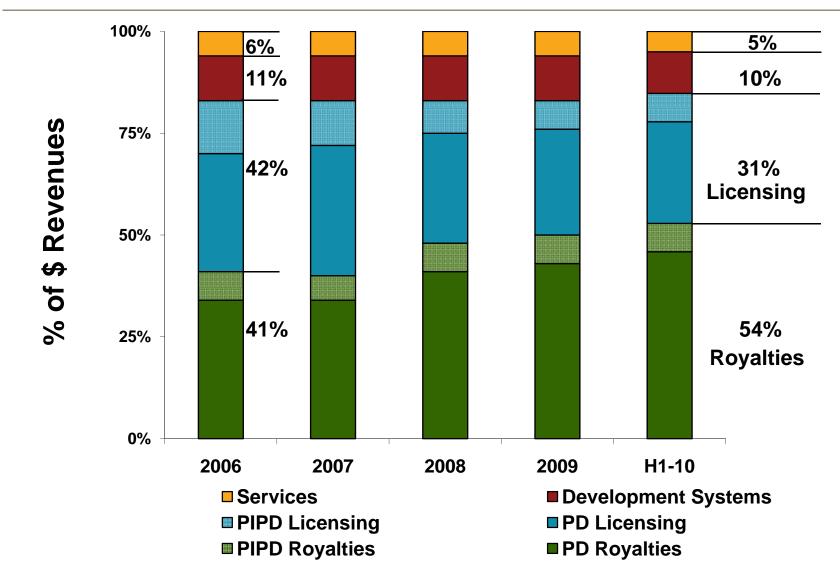
# H1 2010 – Revenue Summary (£)

	H1 2010	H1 2009	
	£m	£m	
PD			
Licensing	45.5	36.4	25%
Royalties†	92.5	61.8	50%
PD Total	138.0	98.2	40%
PIPD			
Licensing	12.4	10.6	17%
Royalties*	13.5	10.5	28%
PIPD Total	25.9	21.1	23%
Development Systems	18.6	16.5	13%
Services	9.8	8.9	11%
Total Revenue **	192.3	144.7	33%



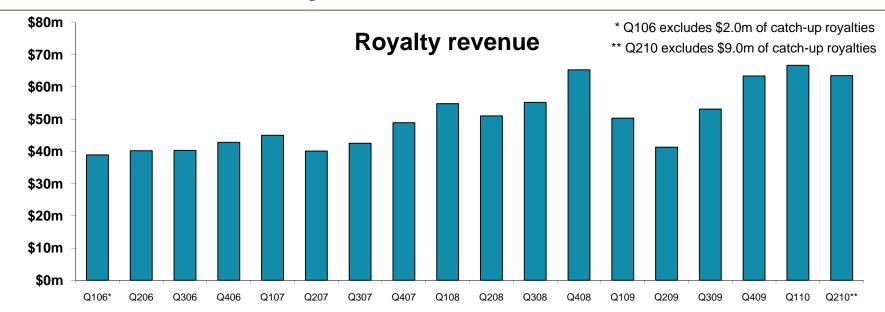
<sup>†</sup> Includes catch-up PD royalties in H1 2010 of £6.2m and in H1 2009 of nil \* Includes catch-up PIPD royalties in H1 2010 of £0.5m and in H1 2009 of £2.6m \*\* ARM's US \$/£ effective rate of \$1.53 in H1 2010 and \$1.57 in H1 2009

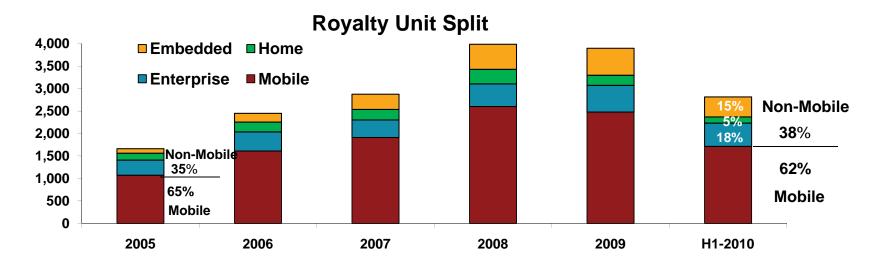
# Revenue Split Analysis





# **Processor Royalties**

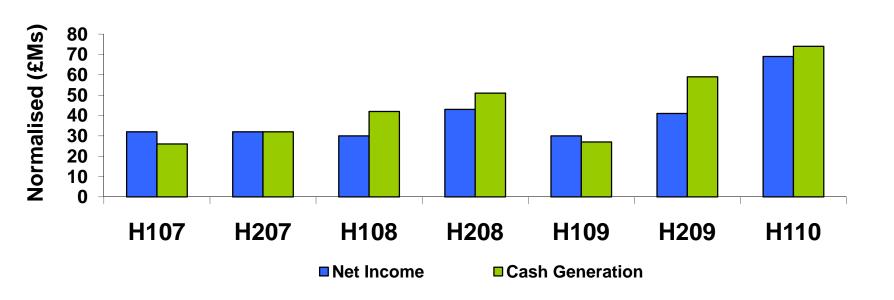






# **Converting Profit into Cash**

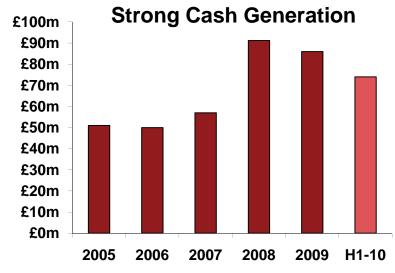
(£m)	H107	H207	H108	H208	H109	H209	H110	Total
Profit for the Period	32	32	30	43	30	41	59	267
Normalised Cash Generation	26	32	42	51	27	59	74	311
% Cash Conversion	81%	100%	140%	119%	90%	144%	125%	116%

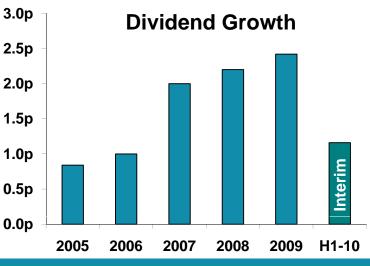




### **Strong Balance Sheet and Cash Generation**

- Healthy margins drive strong cash generation of £30m in Q2
- Net cash of £202m at end H1
- Expect to retain cash rich balance sheet
- Total cash return of £386m over 6 years
  - £125m via dividend
  - £261m via buyback
- Progressive dividend policy
  - 2010 interim dividend increased by 20% 0.5p







# **Quarterly Results Summary**

	Q209 (£m)	Q309 (£m)	Q409 (£m)	Q110 (£m)	Q210 (£m)
Total revenues	64.8	75.2	85.2	92.3	100.0
US\$ revenues	105.5	123.0	140.0	143.3	150.3
Effective fx rate	1.63	1.64	1.64	1.55	1.50
Normalised operating profit	16.0	23.8	31.8	36.9	42.7
Operating margin (%)	24.7%	31.7%	37.3%	40.0%	42.7%
Normalised profit before tax	16.3	24.3	32.3	37.6	43.5
Normalised EPS (pence)	0.95	1.34	1.79	2.04	2.34
Net cash	88.2	121.7	141.8	196.0	202.3

Numbers before acquisition-related charges, share-based payments, Linaro-related, restructuring charges and impairments or profit on disposal of investments



# **Summary Balance Sheet**

IFRS	30 Jun 10	31 Dec 09
IFKS	£MM	£MM
Assets		
Cash	202.3	141.8
Accounts receivable (net of AROC)	80.0	52.8
Amounts recoverable on contracts (AROC)	11.8	12.4
Other debtors, inventory and investments	95.5	82.4
Property and equipment	14.3	13.6
Goodwill	556.0	516.8
Other intangibles	18.1	24.7
Total assets	978.0	844.5
Liabilities & shareholders' equity		
Deferred revenue	63.7	39.6
Other creditors	64.2	66.2
Shareholders' equity	850.1	738.7
Total liabilities & shareholders' equity	978.0	844.5



# **Cash Flow Summary**

£MM	Q2 10	H1 10
Operating activities	32.9	76.8
Interest received	0.5	1.0
Tax	(3.5)	(7.7)
Capital expenditure	(1.8)	(3.6)
Investments and acquisitions (net of disposals)	(3.9)	(4.9)
Share options	2.7	18.4
Share buybacks and dividends	(19.0)	(19.0)
Other (forex, Linaro cash)	(1.6)	(0.5)
Cash flow	6.3	60.5
Opening cash	196.0	141.8
Closing cash	202.3	202.3

	Q2 10	H1 10
Profit before tax	43.5	81.1
Interest income, depreciation and amortisation	1.4	2.8
Cash flows from items excluded from normalised profits	` '	(8.3)
Movements in working capital	(8.1)	1.2
Operating activities	32.9	76.8



### Q2 2010 ARM Pro Forma P&L

	Normalised	Share- based payments	Normalised incl share- based payments	Intangible amortisa-	-related charges	Linaro - related charges	IFRS
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Revenues	99,950	_	99,950	_	_	_	99,950
Cost of revenues	(5,144)	(649)	(5,793)	_	_	_	(5,793)
Gross profit	94,806	(649)	94,157				94,157
Research and development Sales and marketing General and administrative Total operating expenses  Profit from operations Investment income  Profit before tax Tax	(26,396) (12,825) (12,907) (52,128) 42,678 782 43,460 (11,899)	(5,707) (1,809) (1,334) (8,850) (9,499) - (9,499) 2,681	(32,103) (14,634) (14,241) (60,978) 33,179 782 33,961 (9,218)	(1,002) (1,971) ————————————————————————————————————	(114) (114) (114) (114) (114) 32	(272) (116) (850) (1,238) (1,238) - (1,238) 347	(33,377) (16,835) (15,091) (65,303) 28,854 782 29,636 (7,740)
Profit for the period	31,561	(6,818)	24,743	(1,874)	(82)	(891)	21,896
Earnings per share (assuming dilution) Shares outstanding ('000) Earnings per share – pence	1,347,999 2.34		1,347,999 1.84				1,347,999 1.62
ADSs outstanding ('000) Earnings per ADS – cents	449,333 10.51		449,333 8.24				449,333 7.29

### H1 2010 ARM Pro Forma P&L

	Normalised £'000	Share-based payments £'000	Normalised incl share-based payments	Intangible amortisation	Other acquisition -related charges	Linaro - related charges £'000	
Revenues	192,296	_	192,296	_	_	_	192,296
Cost of revenues	(11,595)	(1,158)	(12,753)	_	_	_	(12,753)
Gross profit	180,701	(1,158)	179,543		_		179,543
Research and development Sales and marketing General and administrative Total operating expenses  Profit from operations Investment income  Profit before tax Tax	(51,558) (24,851) (24,708) (101,117) 79,584 1,484 81,068 (22,213)	(10,993) (3,501) (2,568) (17,062) (18,220) - (18,220) 5,584	(62,551) (28,352) (27,276) (118,179) 61,364 1,484 62,848 (16,629)	(2,002) (3,859) ————————————————————————————————————	(228) (228) (228) (228) - (228) 64	(272) (116) (850) (1,238) (1,238) - (1,238) 347	(64,825) (32,555) (28,126) (125,506) 54,037 1,484 55,521 (14,053)
Profit for the period	58,855	(12,636)	46,219	(3,696)	(164)	(891)	41,468
Earnings per share (assuming dilution) Shares outstanding ('000) Earnings per share – pence	1,342,563 4.38		1,342,563 3.44				1,342,563 3.09
ADSs outstanding ('000) Earnings per ADS – cents	447,521 19.68		447,521 15.45				447,521 13.86