

## ARROW GLOBAL GROUP PLC

Capital Markets Day, 2018

Confidentiality Notice: This presentation is confidential and contains proprietary information and intellectual property of Arrow Global Group PLC. None of the information contained herein may be reproduced or disclosed under any circumstances without the express written permission of Arrow Global Group PLC

### Lee Rochford Group CEO

## I. Introduction

#### Agenda

#### Lee Rochford, Group CEO

- I. Introduction
- II. Strategic overview

#### Zach Lewy, Founder & Group CIO

- III. Asset management and servicing deep dive
- IV. Investment business deep dive

### Dan Perry, Director of Investments, Analytics & Performance

V. Consistent underwriting excellence

#### Clodagh Gunnigle, Group CRO

VI. Risk management and resilience

#### BREAK

Dave Sutherland, Group COO

VII. Operational excellence

Paul Cooper, Group CFO

VIII. Financial summary and guidance

Lee Rochford, Group CEO

IX. Summary and investment case

Q&A

LUNCH

#### Strong management team



Lee Rochford Group CEO



Zach Lewy Founder & Group CIO



Dave Sutherland Group COO

Colin Maher Head of Ireland

Clodagh Gunnigle Group CRO

**Dan Perry** Director of Investments, Analytics and Performance

John Calvao Global Head of Asset and Fund Management **Joao Bugalho** Country Leader, Portugal



Paul Cooper Group CFO



Stewart Hamilton General Counsel Oliver Stratton Country Leader, UK

Madiha Mouchtak Country Leader, Benelux

Massimiliano Ciffero Country Leader, Italy



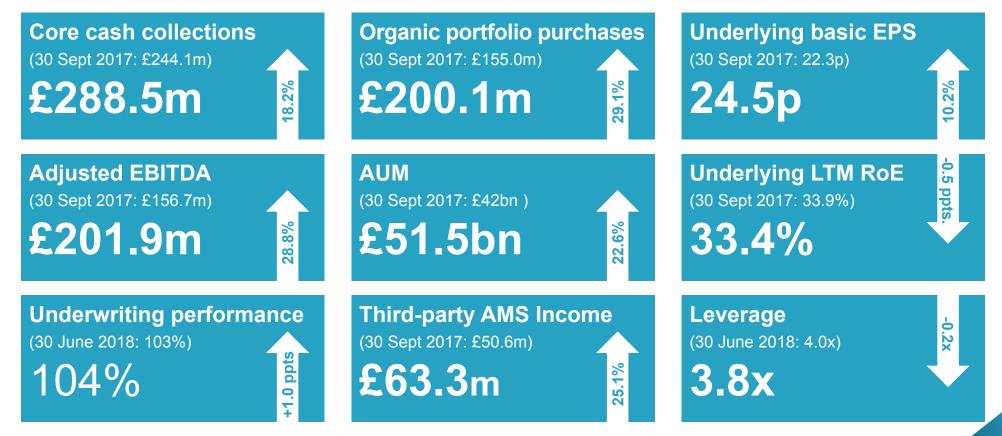
Tracy French Group HR Director

## II. Strategic overview

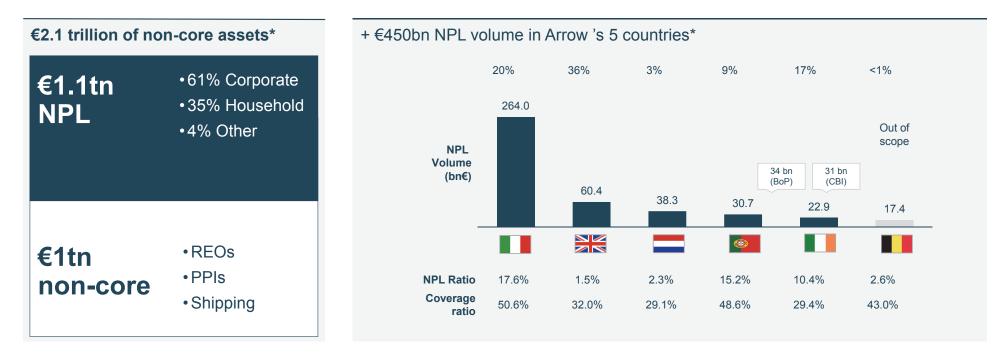
# Unique business model with a track record of delivering strong growth

Continued growth opportunity	Differentiated business model	Outstanding underwriting track record	Resilient back-book	Sophisticated capital allocation	Prudent risk management framework
<ul> <li>Large market – high value niches plentiful</li> <li>Ongoing supportive drivers – regulatory and accounting</li> </ul>	<ul> <li>Investment opportunities significantly above WACC</li> <li>Increasingly capital-light earnings</li> </ul>	<ul> <li>Continued success in new geographies</li> <li>Superior risk- adjusted returns</li> </ul>	<ul> <li>Consistent through-the- cycle cashflows</li> </ul>	<ul> <li>Different options depending on cycle</li> <li>Flexibility provided by unique business model</li> </ul>	<ul> <li>Informs approach to portfolio management, balance sheet discipline and customers</li> </ul>

#### Another set of strong Q3 results Underwriting performance and AUM growth supporting earnings momentum



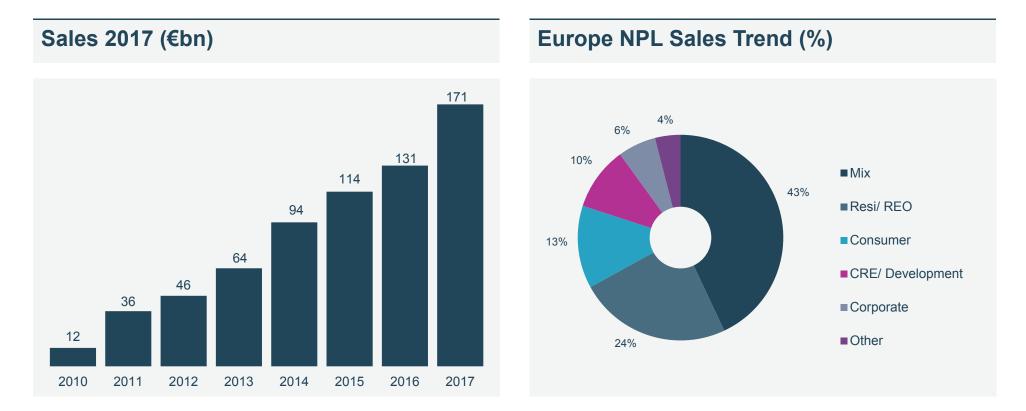
### Arrow has strategically identified the most active markets



\* EBA estimate (exc. for Italy – Banca d'Italia data for NPL volume and NPL ratio) \*\* PWC estimate

High propensity to sell and regulatory parity make these attractive markets

#### Increasing propensity to sell NPLs throughout Europe



• The continued formation of new NPLs has meant stock has remained stable despite the higher volume of sales

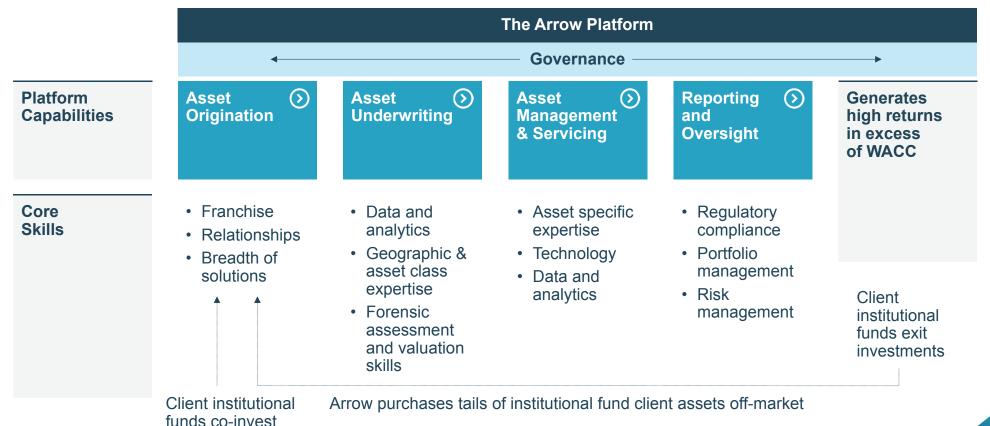
Arrow is very well positioned to selectively purchase these assets

# Strategically positioned to be the partner of choice for local banks, credit funds and the capital markets

Niches by asset class	UK	Portugal	Italy	Benelux	Ireland
Consumer	Capquest	Gesphone	Parr Credit	Vesting	Small market
SME	Mars Capital	Whitestar	Europa Investimenti	RNHB	Mars Capital
Mortgage	Mars Capital	Whitestar	Expanding Parr	Vesting	Mars Capital
Real Estate	Mars Capital	Norfin*	Europa Investimenti (Vegagest)	M7	Mars Capital
Master Servicing/ Securitisation/ Credit Bureau	Mars Capital	Hefesto	Zenith	Focum	Mars Capital
Fund Management	Arrow UK	Norfin*	Europa Investimenti (Vegagest)	Arrow Netherlands	Arrow Ireland

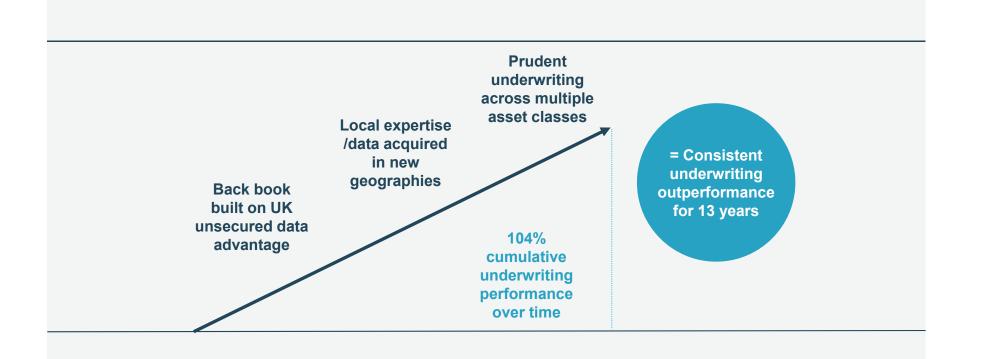
Leading platforms in each market provide deep asset expertise

### Unique platform built to unlock value in high-return niches



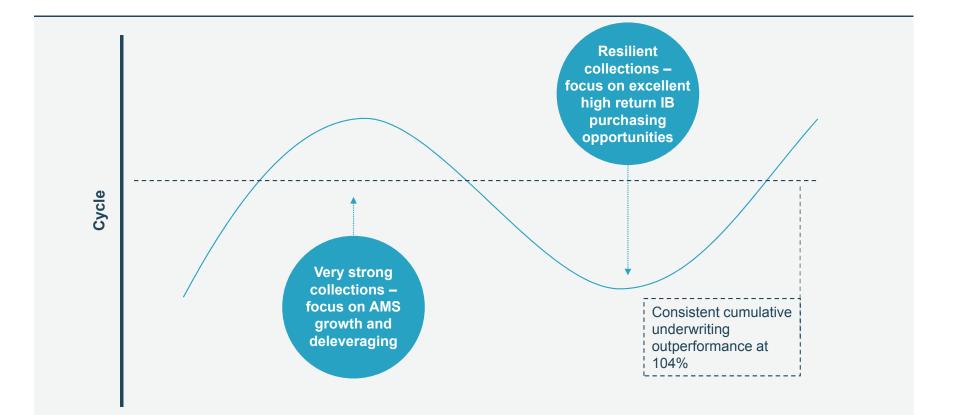
13

#### Outstanding underwriting track record



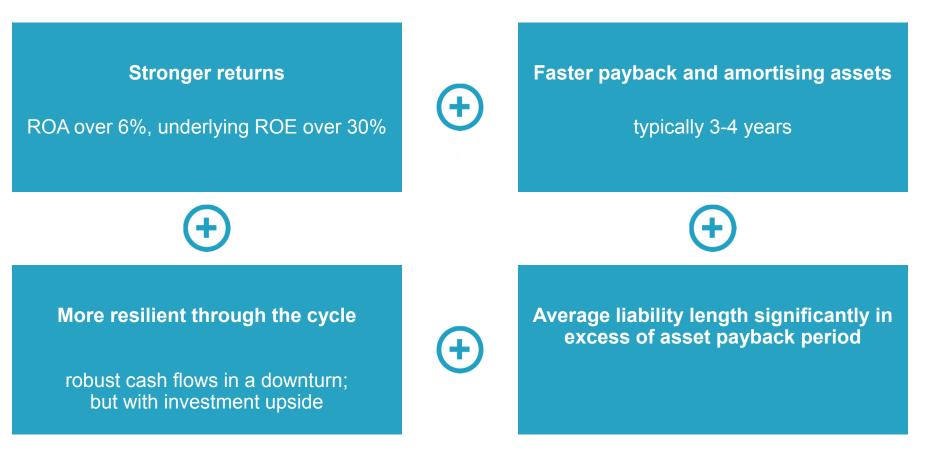
Track record maintained while growing our unique platform

#### Smart capital allocation through the economic cycle



Unique flexibility of our model unlocks value irrespective of the cycle

#### A differentiated and attractive financial stock



Stronger balance sheet, more resilient and higher return

#### Investment case

1	Sophisticated investment platform in a growth market
2	Increasing quality of earnings
3	Consistently strong returns for shareholders
4	Resilient balance sheet
5	Reliable through the cycle performance

Arrow's unique and differentiated model provides an attractive investment opportunity

Zach Lewy Founder & Group Chief Investment Officer

## III. Asset management and servicing deep dive

"High-value niche investment opportunities for fund clients underpinned by sophisticated servicing expertise"

# Arrow's platforms provide the leading servicing capabilities for key asset niches in our target markets

Focused strategy	High quality of earnings	Strong revenue and AUM growth	Growing earnings contribution
<ul> <li>Arrow's capabilities run deep in our chosen markets</li> <li>Arrow's platforms provide solution for bank deleveraging by targeting asset classes banks are structurally reducing</li> <li>Arrow is a fundamental and catalytic enabler for investors looking for exposure to these often regulated niche asset classes</li> </ul>	<ul> <li>Proven through-the-cycle collections experience</li> <li>Long-term, predictable cashflows (5 year average contract length)</li> </ul>	<ul> <li>£0-£52bn AUM in 6 years</li> <li>Considerable growth opportunity via current platforms</li> <li>Revenues to grow to 50% of total over 5 years</li> </ul>	<ul> <li>Shift to higher margin business via fund management offering</li> <li>EBITDA margins to grow from high-teens % to mid-twenties %</li> </ul>

 Arrow's franchise strength is optimised by leading local relationships and strong international investor partnerships located in London

#### Arrow's platforms provide value for our us and our clients

High quality platforms	Growing demand from clients	Diversified and predictable cashflows	Scale benefits
<ul> <li>Unique access to deal flow</li> <li>Regulatory parity with banks</li> </ul>	<ul> <li>Banks increasingly outsourcing in specialist niches</li> <li>Alternative investors seeking asset exposure, not platform acquisition</li> </ul>	<ul> <li>Large number of long-term contracts</li> <li>Revenues have similar predictability to Group ERC</li> <li>Incentive structures based on collections outperformance</li> </ul>	<ul><li> Operating leverage</li><li> Local expertise</li><li> Local relationships</li></ul>

# Core local platforms enable Arrow to be investment partner and servicer of choice in our selected niches

Niches by asset class	UK	Portugal	Italy	Benelux	Ireland
Consumer	Capquest	Gesphone	Parr Credit	Vesting	Small market
SME	Mars Capital	Whitestar	Europa Investimenti	RNHB	Mars Capital
Mortgage	Mars Capital	Whitestar	Expanding Parr	Vesting	Mars Capital
Real Estate	Mars Capital	Norfin*	Europa Investimenti (Vegagest)	M7	Mars Capital
Master servicing/ Securitisation/ Credit bureau	Mars Capital	Hefesto	Zenith	Focum	Mars Capital
Fund management	Arrow UK	Norfin*	Europa Investimenti (Vegagest)	Arrow Netherlands	Arrow Ireland

\*Subject to completion

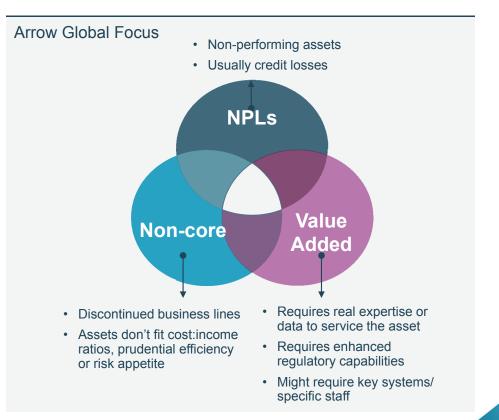
- These platforms target the asset classes that banks must reduce in order to delever, optimise risk-weighted assets and achieve their target cost:income ratios
- Having such deep capabilities in our choses countries, allows Arrow to be a leading solutions provider to bank and investor clients

Unique platforms for originating and servicing assets in our selected niches

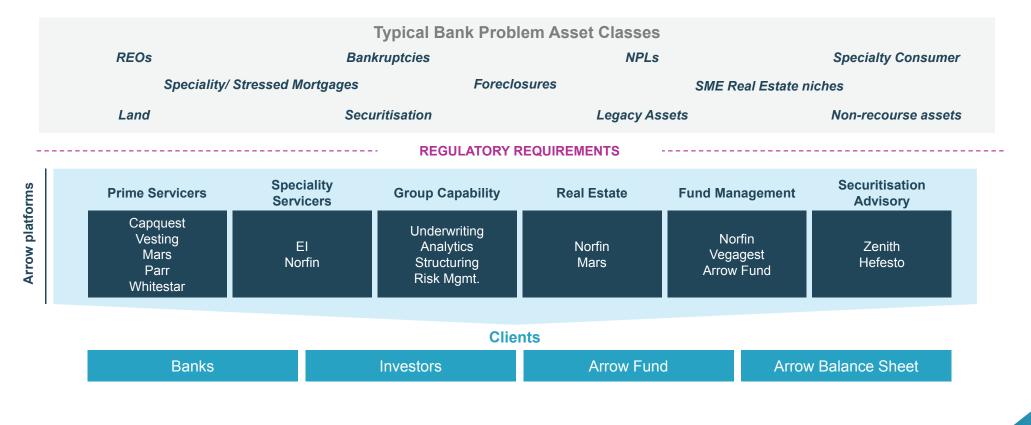
#### **Asset Specialisation**

## We offer investment opportunities in 3 specific high-value niches where we can drive high returns for investors

- We see 3 key (overlapping) areas where we are a more efficient holder of assets than selling bank/fund
- In each case the inefficiency for the current asset holder allows us to buy at a discount
- We have strongly aligned both our operational and investment focus with these areas
- This is enabled by **servicing expertise** (which also bring local deal origination capabilities)



Arrow has built a leading capability in the key asset classes where banks and institutional investors frequently transact



Arrow packages leading capabilities to create solutions for banks and investors

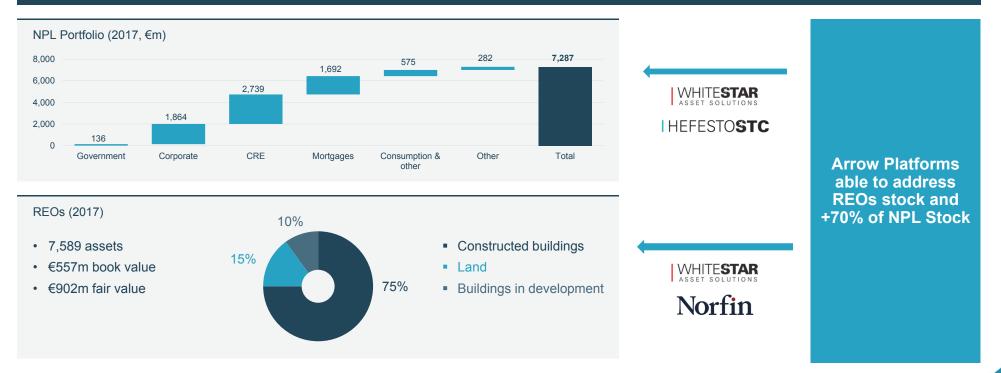
#### Targeting a sizable market Banks' NPL Stock

Asset niches	Italy	Portugal	UK	Ireland	Benelux (NL only)	TOTAL
Consumer	€5bn	€4bn	€9bn	€1bn	€3bn	EUR 21 bn
SME	€119bn	€12bn	€4bn	€7bn	€7bn	EUR 148 bn
Mortgage	€43bn	€6bn	€35bn	€16bn	€16bn	EUR 86 bn
Real Estate	€82bn	€14bn	€5bn	€9bn	€8bn	EUR 118 bn
					related NPL	e corporate (secured and ncluding SME

- High level analysis, based on large banks' stock (EBA and Bank's data)
- Only considering NPL exposure (not all non-core assets)

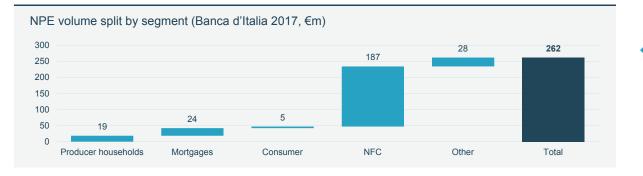
#### Typical Bank Problem Asset Classes Portuguese Bank Example

#### Second largest bank in Portugal – 27% market share in deposits and 21% in credit (2017)



#### Typical Bank Problem Asset Classes Italian Bank Example

#### Largest market in Europe in NPE size, with more than €260bn in stock



Detail on the top 5 banks (€bn) – EBA Data (1H2017)





Arrow Platforms able to address +50% of NPL Stock in the largest European Market

60% of NPL Stock on the top 5 banks

### Case study – NPL securitisation for bank client

### Portuguese bank divesting assets

Arrow's
 Portuguese
 business valued and
 underwrote assets
 and assisted in
 ratings process

Arrow supported global investment bank to securitize and place the transaction Arrow successfully structure the first NPL securitization in Portugal

(+)

Arrow's servicing platforms form an integral part of the capital markets

(+)

### Case study – NPL transaction from our servicing platform

**Italian banks** 

Italian NPL

Transaction: Private NPL Transaction

Total FV: €2.8bn

Total ABS issuance: ~€1bn

- Portfolio serviced as Master Servicer on Zenith's platform
- 3 Special Servicers appointed to manage the entire Portfolio
- Diverse asset range of secured and unsecured NPL assets
   + UTP ("Unlikely To Pay")
- Transaction made possible for bank 1 to purchase
   the three bankrupt banks

### Case study – NPL transaction from our servicing platform

**Dutch Bank** 

Dutch AM transaction (Shortfalls secured/unsecured) and recovery on behalf of Dutch Bank of SME loans

Dutch AM transaction (Shortfalls secured/unsecured) and recovery on behalf of Dutch Bank of SME loans

Total FV\*: €1,2bn`

#### Of which:

- Shortfalls secured/unsecured €845M
- Recovery SME loans : €300M
- # files currently being handled: 55K
- Portfolio serviced as DCA on Vesting's platform since 2007, Vesting most important partner for their collection activities – supported bank by solving collections backlog and legacy systems.
- All type of shortfalls are outsourced to Vesting (Credit Cards, Consumer Loans, Mortgage, Fraud cases, SME loans, etc)
- Vesting's recovery rate on the shortfalls is almost 60% on Unsecure, 20% on and Secured and 50% on SME loans

# Arrow has an excellent track-record of growing acquired servicing platforms

	AUM at acquisition	Current AUM	Increase
	€14.1bn	€27.9bn	+98%
WHITESTAR ASSET SOLUTIONS	€5.5bn	€7.4bn	+35%
	€3.7bn	€5.3bn	+43%
capquest	£4.1bn	£4.9bn	+20%

#### About Arrow asset management & Servicing – How it works

	1. Fund management (high margin closed end fund)	Arrow raises fund (>)	Arrow identifies attractive assets	Arrow invests on a discretionary basis (with option to co-invest	Arrow captures more value
margins	2. Co-investing and servicing (high margin with attractive performance fees)	Arrow identifies (S) attractive asset	Arrow deploys underwriting expertise and analytics	Arrow presents attractive investment case to third party fund clients	Arrow services entire portfolio, generating asset management revenue
Higher	3. Pure servicing/master servicing (medium-high margin predictable servicing revenues)	Asset/structured note brought to Arrow by fund client	Arrow agrees SLAs/reporting fee	Arrow on-boards asset to servicing platform	Arrow services for extended period
	4. Due diligence/ valuation consultancy (one-off fees)	Asset brought by fund client	Arrow deploys underwriting expertise and analytics	Due diligence S report build	One-off consultancy fee paid to Arrow

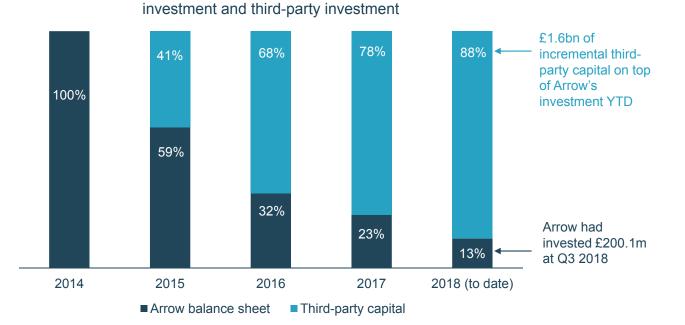
Blended high-teens net margin with long-term "sticky" assets

### Fund management offering will further enhance margins

Proven investment track-record	Strong alignment due to co-invest ability	Sound base for fund raising activities	Required governance structure in place
<ul> <li>13 year track-record of investment at attractive returns</li> <li>Resilient performance through the economic cycle</li> </ul>	<ul> <li>Arrow business model built on co-investment with capital partners</li> <li>Ability to seed funds</li> </ul>	<ul> <li>Respected partner with wide range of alternative asset managers</li> <li>Already raised £300m fund with one investor (50% invested)</li> <li>Significant early interest from a wide range of investors for next fund</li> </ul>	<ul> <li>3 stage credit committee process</li> <li>Separate portfolio management team drives collections strategies</li> <li>Investor reporting a core discipline</li> </ul>

#### Arrow's balance sheet investment has rapidly decreased as a proportion of total investment on a vintage basis

Investment by vintage split by Arrow balance sheet

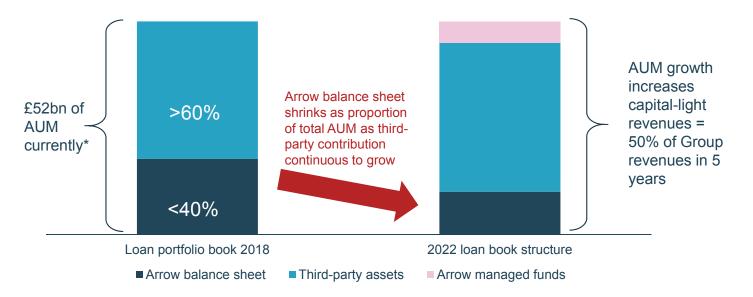


• Driven by Arrow's strong institutional fund client relationships and the co-investment model

· Arrow can source more investment opportunities than its balance can take advantage of

# External demand for arrow's investment opportunities will drive capital-light asset management & servicing growth

Future shape of Arrow's investment structure



- Arrow balance sheet capital currently represents less than 40% of Group AUM
- · Future AUM growth from third-party capital will drive increased capital-light AMS revenues

Increasingly capital-light investment strategy

#### Asset management and servicing – key takeaways

1	Arrow is focused on 5 core countries
2	Arrow owns leading platforms in the asset classes where banks are deleveraging
3	Arrow combines its platform skills in master, prime and specialist servicing to deliver unique solutions to banks and investors in certain asset niches
4	Arrow's asset management capability and AUM creates a future pipeline for the investment business
5	By moving up the value chain into fund management and specialist segments, Arrow is improving AMS margins

Arrow aims to grow AMS margins to towards 25% and revenues to 50% of Group total

# IV.Investment business deep dive

## Unique investment business that originates high-return opportunities

Specialist in high-value	Targeted niche	Majority of purchases	Strong underwriting and returns track-record
niches	investment opportunities	off-market	
<ul> <li>Specialist platforms enable high performance from niche assets</li> <li>Institutional investor partners require platform access as a prerequisite to drive high returns from specialist asset classes</li> <li>Provides investment opportunities in specialist asset classes</li> </ul>	<ul> <li>Specialist acquirer of niche assets in granular market segments</li> <li>Average transaction size of £8m</li> <li>Unique expertise leads to accurate underwriting and high returns</li> </ul>	<ul> <li>Strong relationships with local banks</li> <li>Leading platform in enabling banks to divest niche assets to institutional investors</li> <li>Unique option to purchase tails of assets from servicing platforms</li> </ul>	<ul> <li>13 year track-record of successful high-return investments</li> <li>Underwriting performance driven by local platform quality and expertise</li> </ul>

Core local platforms enable Arrow to be investment partner and servicer of choice in our selected niches

Niches by asset class	UK	Portugal	Italy	Benelux	Ireland
Consumer	Capquest	Gesphone	Parr Credit	Vesting	Small market
SME	Mars Capital	Whitestar	Europa Investimenti	RNHB	Mars Capital
Mortgage	Mars Capital	Whitestar	Expanding Parr	Vesting	Mars Capital
Real Estate	Mars Capital	Norfin*	Europa Investimenti (Vegagest)	M7	Mars Capital
Master servicing/ Securitisation/ Credit bureau	Mars Capital	Hefesto	Zenith	Focum	Mars Capital
Fund management	Arrow UK	Norfin*	Europa Investimenti (Vegagest)	Arrow Netherlands	Arrow Ireland

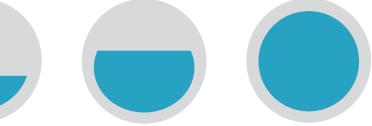
\*Subject to completion

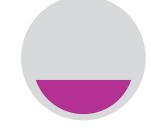
Unique platforms for originating and servicing assets in our selected niches

## How do we originate higher return assets?

### Arrow's high return asset origination

## Wider market's lower return asset origination is the opposite





Identify complex/ little understood asset on bank balance sheet Asset specific expertise provides accurate initial returns forecasts

Sophisticated underwriting model allows drives highreturns on complex asset Identify/bid for vanilla asset on bank balance sheet Unspecific expertise requirements bids the asset price up and returns down Unsophisticated underwriting models delivers low returns on vanilla asset

Degree of market understanding due to complexity

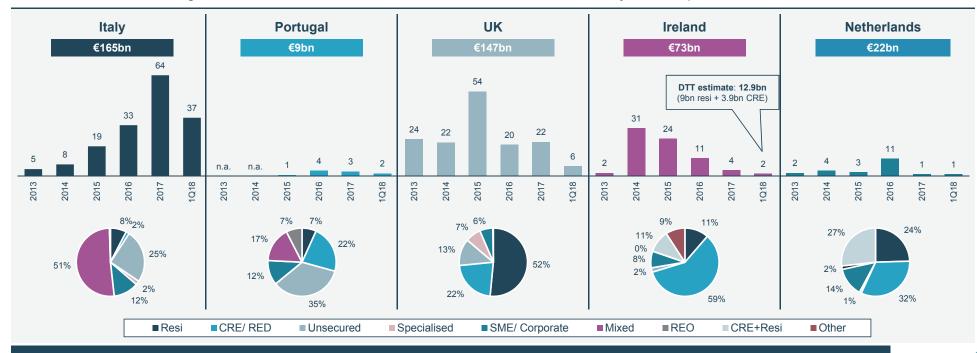
Arrow's differentiated model drives attractive returns

Film – The market opportunity and arrow's unique model

## Secondary sales create an enormous incremental market where our platform positions us well

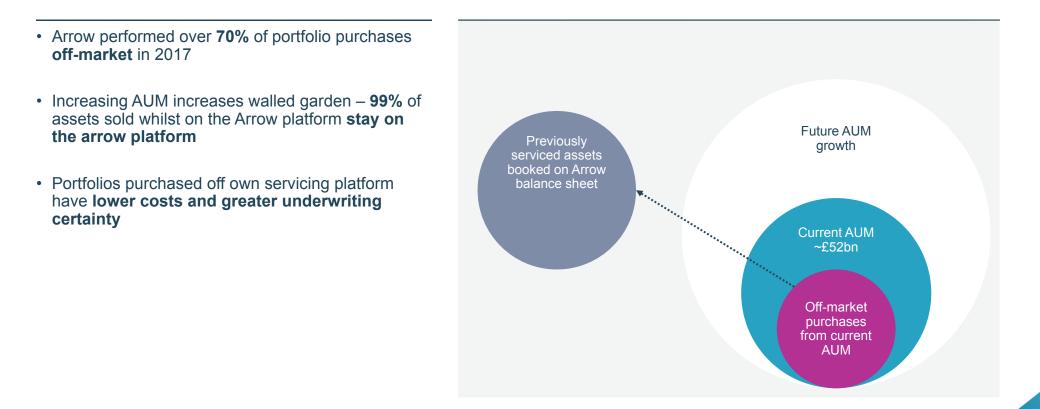
#### NPL Sales (2013 – Q1 2018) (€bn)

Significant recent NPL sales to funds creates future secondary market potential: €416bn



The Arrow platform is optimally positioned to provide investment and servicing solutions for secondary sales

## We already have over £52bn of assets on our platform – future walled garden purchase opportunity



Many years of purchasing pipeline already on the platform

## Arrow clients that value our platform





#### 3. Purchasing from Servicing LLOYDS BANKING GROUP **₩ RBS** 📣 Santander Erudio Student Loans **Deutsche Bank** Montepio Millennium LEHMAN BROTHERS (ge) **GE Money** AXA Caja Duero Bank of America 🧇 🔼 NN WestlandUtrecht ങ്ങ KBC Bank delta lloyd ARGENTA SNS SNS bpost bank ING

- We work with over 120 clients and did 76% repeat business
- We work directly with the largest institutional investors in the market (over 80% of the largest purchasers by volume since 2015)
- £52bn of AUM provides a strong purchasing pipeline

Our platform and client base means we continue to see a greater number of potential deals and are increasingly selective

#### **Deal Volume and Win/ Bid Ratios**

	Volume of deals	Bid Ratio	Win Ratio
2015 H1	47	60%	46%
2015 H2	48	31%	67%
2016 H1	56	30%	47%
2016 H2	73	51%	41%
2017 H1	69	42%	45%
2017 H2	78	44%	53%
2018 H1	82	44%	53%

- Platform originating more opportunities than ever before
- Highly selective in deals we progress – strong investment discipline sustains returns profile
- Arrow does not generally do forward flows: portfolio purchases are discretionary and Arrow can reprice dynamically for risk as market conditions change
- We are able to generally avoid highly competitive auctions
  - Off-market deals account for 66% of Arrow investments in 2018 H1 (70% in FY 2017)

## Examples of deals won in 2018

Global Fund	Challenger Bank	Boutique Fund	Challenger Bank	Debt Purchaser
UK Unsecured	UK Unsecured	UK Secured Performing	UK Secured	UK Unsecured
Total FV*: £272m	Total FV*: £15m	Total FV*: £38m	Total FV*: £135m	Total FV*: £11m
Arrow FV: £35m	Arrow FV: £15m	Arrow FV: £38m	Arrow FV: £4m	Arrow FV: £11m
Partner: Global Fund	Arrow Only	Arrow Only	Partner: Global Fund	Arrow Only
Global Fund Irish Secured Residential Total FV*: £63m Arrow FV: £63m Arrow Only	Global Fund Irish Performing CRE Total FV*: £168m Arrow FV: £5m Partner: Global Fund, International Bank	Global Fund Irish Performing CRE Total FV*: £8m Arrow FV: £8m Arrow Only	International Bank Portuguese Mixed Total FV*: £328m Arrow FV: £245m Partner: Global Fund, International Bank	Global Fund Portugal Unsecured Total FV*: £165m Arrow FV: £165m Arrow Only
International Bank	International Bank	Local Bank	Mixed Bankruptcies	Boutique Investor
Portuguese Secured	Portuguese Secured	Italian Secured	Italian Unsecured	Italian Unsecured
Total FV*: £491m	Total FV*: £106m	Total FV*: £16m	Total FV*: £109m	Total FV*: £45m
Arrow FV: £491m	Arrow FV: £106m	Arrow FV: £16m	Arrow FV: £109m	Arrow FV: £45m
Arrow Only	Arrow Only	Arrow Only	Arrow Only	Arrow Only
Local Bank Italian Secured Total FV*: £31m Arrow FV: £31m Arrow Only	Local Bank Italian Secured Total FV*: £45m Arrow FV: £45m Arrow Only	Boutique Investor Italian Unsecured Total FV*: £33m Arrow FV: £33m Arrow Only	Real Estate Benelux Secured Total FV*: £353m Arrow FV: £16m Partner: Global Fund, International Bank	International Bank Benelux Secured Total FV*: £1,146m Arrow FV: £34m Partner: Global Fund

Bold border indicates acquisition from repeat seller

Light blue background indicates Off-Market transaction (no colour indicates Auction process)

\*FV = Face Value

### Won deal examples

#### **Global Fund**

**UK Unsecured** 

Transaction: Off Market

Total FV\*: £272m

#### Arrow FV: £35m

- · Partnered with a global fund.
- Represents the first successful transaction under Project West
- Acquisition of tail portfolio from a fund, with whom we have a strong on-going relationship.
- Acquired and serviced earlier tranche of the same assets in 2013 providing large data set to assess future performance and allowing for refined servicing approach.

#### **Challenger Bank**

UK Secured

Transaction: Auction

Total FV\*: £135m

#### Arrow FV: £4m

- Partnered with a global fund
- Large on-market, strategic co-invest structure with FV of £135m with an existing partner bringing total FV of assets under partnership to £600m+ to date.
- Generates significant and capital light servicing revenue for Arrow's UK platform over the next 10 years

#### **Mixed bankruptcies**

Italian Unsecured

Transaction: Off Market

Total FV\*: £109m

Arrow FV: £109m

- Systematic deal strategy to acquire Italian bankruptcy positions into Europa Investimenti (EI).
- Successfully acquired €123m of FV to date at attractive yields with further €301m in the current pipeline.
- Significant economies of scale available as the acquisition of El accelerates ability to aggregate our position.

#### **International Bank**

Portuguese Secured & Unsecured

Transaction: Auction

Total FV\*: £328m

#### Arrow FV: £245m

- Partnered with a global fund with financing from international bank
- Repeatable transaction and securitisation through coinvest structure, acquired from large Portuguese Bank
- Blend of secured and unsecured assets Arrow acquiring unsecured portion and acting as securitisation trustee and servicer of both pools.

#### International Bank

Portuguese Unsecured

Transaction: Off Market

Total FV\*: £106m

Arrow FV: £106m

- Arrow independent acquisition
- Unsecured assets valued by leveraging Arrow's extensive Portuguese back book of data and market leading servicing capabilities
- Repeat seller where precedent contracts allowed for quick and seamless transaction and on-boarding of accounts onto Arrow's in-house servicing platform

#### International Bank

**Benelux Secured** 

Transaction: Auction

Total FV\*: £1,146m

Arrow FV: £34m

- · Partnered with a global fund
- Third successful transaction in supporting one of the leading Dutch consumer banks with >€3bn FV of assets as part of a strategic decision to delever their position in the market
- Generating significant enterprise value within Arrow's RNHB platform, paving the way for future transactions equivalent in both size and complexity

Bold border indicates acquisition from repeat seller

Light blue background indicates Off-Market transaction (no colour indicates Auction process)

\*FV = Face Value

### Case study – off market transaction from our servicing platform

Corporate

Italian Secured

Transaction: Off Market

Total FV\*: £740m

Arrow FV: £740m

- Portfolio master serviced on Zenith platform
- Diverse asset range of secured and unsecured assets
- 3 month exclusivity period granted to allow for extensive due diligence
- Spanning 82 sub-portfolios sourced from over 50 sellers and servicers
- Staff transfer benefit for expansion of Zenith and capabilities and ongoing portfolio management

- Selling to Arrow when we are already the servicer provides an excellent exit for funds
- Funds prefer not to sell/buy to/from direct competitors and tail assets have conducive characteristics to Arrow's balance sheet
- Arrow has an underwriting advantage on deals already on the Arrow platform – advantages for both seller/buyer from reduced migration risk, better data transparency, easier contracting = better terms of trade and lower transaction cost

## Examples of deals lost or declined in 2018

High Street Bank UK Unsecured Total FV*: £29m Arrow FV: £29m Arrow Only Withdrew	High Street Bank UK Unsecured Total FV*: £547m Arrow FV: £50m Arrow Only Lost	High Street Lender UK Unsecured Total FV*: £9m Arrow FV: £9m Arrow Only Withdrew	Global Fund UK Performing Residential Total FV*: £19m Arrow FV: £19m Arrow Only Withdrew	High Street Bank UK Unsecured Total FV*: £185m Arrow FV: £73m Partner: Global Fund Lost
International Bank Italy Secured/Unsecured Total FV*: £5,637m Arrow FV: £564m Partner: Global Fund Withdrew	International Bank Italy Secured/Unsecured Total FV*: £170m Arrow FV: £76m Partner: Global Fund Withdrew	International Bank Portugal Secured Total FV*: £855m Arrow FV: £98m Partner: Global Fund Lost	International Bank Portuguese Secured Total FV*: £580m Arrow FV: £16m Partner: 2 Global Funds, International Bank Lost	Global Fund Portugal Secured Total FV*: £161m Arrow FV: £48m Partner: Global Fund Withdrew
International Bank Portuguese Unsecured Total FV*: £345m Arrow FV: £345m Arrow Only Lost	Global Fund Ireland Secured Residential Total FV*: £135m Arrow FV: £135m Partner: Global Fund, International Bank Withdrew	International Bank Ireland Secured CRE Total FV*: £4,062m Arrow FV: £16m Partner: Global Fund, International Bank Withdrew	National Bank Italian Secured Total FV*: £77m Arrow FV: £38m Partner: Global Fund Lost	Global Fund Benelux Unsecured Total FV*: £98m Arrow FV: £22m Partner: Global Fund Withdrew

Bold border indicates acquisition from repeat seller

Light blue background indicates Off-Market transaction (no colour indicates Auction process)

\*FV = Face Value

### Lost or declined deal examples

High Street Bank	High Street Bank	High Street Lender
UK Unsecured	UK Unsecured	UK Unsecured
Transaction: Auction - Withdrew	Transaction: Auction - Lost	Transaction: Auction - Withdrew
Total FV*: £29m	Total FV*: £547m	Total FV*: £9m
Arrow FV: £29m	Arrow FV: £50m	Arrow FV: £9m
Bi-annual auction from leading high street bank	Auction from leading high street bank	Auction process from UK high stree
<ul> <li>Large number of bidders in process with increasingly tight returns on unsecured paper in the UK &amp;</li> </ul>	<ul> <li>Competitive pricing on UK unsecured payment plan paper now only achieving IRR's &lt;10% unlevered</li> </ul>	Extensive due diligence process to a unfamiliar asset type in the UK. Res
increasingly pro-seller	Arrow, through co-invest structure, able to provide	of key risk and compliance aspects
Withdrew and maintained discipline contractually with 'uncapped liabilities' falling outside Arrow remit	competitive bid whilst achieving target returns despite tight market conditions	Feedback received that Arrow were     price perspective
Elected to deploy capital elsewhere to investments more aligned to our own risk appetite	<ul> <li>Arrow 1 of 2 final bidders. Withdrew based on contractual points for which opposing party accepted.</li> </ul>	<ul> <li>Executive decision to withdraw from on risks outweighing benefits from e</li> </ul>
International Bank	National Bank	Global Fund
Portugal Secured	Italy Secured	Benelux Unsecured
Transaction: Auction - Lost	Transaction: Auction - Lost	Transaction: Off Market - Withdrew
Total FV*: £855m	Total FV*: £77m	Total FV*: £98m
Arrow FV: £98m	Arrow FV: £38m	Arrow FV: £22m

- · Looked to partner with a global fund for this large acquisition
- Extensive diligence of assets with Whitestar expertise recognising limited upside from asset recovery.
- · Maintained disciplined pricing levels to reach threshold return hurdles
- Resulted in Arrow proposal being out-bid in final round of the process.

- · Looked to partner with a global fund
- Extensive due diligence process aligned with partner • provided confidence to target best price at threshold return levels
- Market intelligence post sale process indicated Arrow were aligned on recovery basis but winning party willing to accept <10% rate of returns, far below Arrow target thresholds

- et lender
- o address relatively esulted in recognition ts of sale.
- re competitive from
- m the process based expected investment

- Proposed co-invest structure to achieve target returns .
- Regulatory issues picked up throughout due diligence resulted in Arrow withdrawal from sales process.
- Concerns based around Dutch regulators increasing attention on this type of account, with the potential for redress in the future which fell outside of Arrow's strategy.

Bold border indicates acquisition from repeat seller

Light blue background indicates Off-Market transaction (no colour indicates Auction process)

\*FV = Face Value

## Investment business – key takeaways

1	Specialist in high value niches where Arrow's capabilities deliver sustainably high returns
2	The market is large and the target assets provide long, predictable cashflows
3	Circa 70% of our investments are off-market – provides higher quality opportunities unique to Arrow
4	£52bn of AUM currently on platforms provides valuable off-market deal pipeline
5	Arrow has average deal size of £8m across a large number of deals – typically below big fund appetite and diversifies our risk positions
6	Arrow accesses larger deals by co-investing with partners – provides combination of equity exposure and servicing fees for managing the assets (often purchases the amortised tails offering an attractive exit for partner and purchase for Arrow)

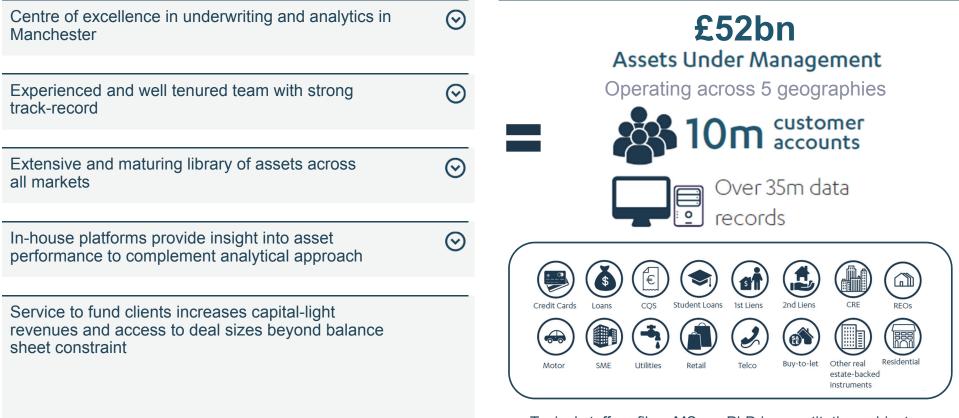
Dan Perry Director of Investments, Analytics & Performance

# V.Consistent underwriting excellence

### Our track record of underwriting outperformance underpins Estimated Remain Collections (ERC) forecasts

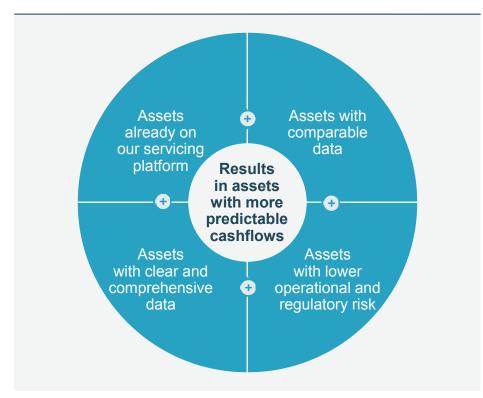
**Consistent investment** Processes and data assets continue **Conservative and accurate** to be enhanced outperformance approach to investments Conservatism at the heart of the Investment performance has Servicing platforms across markets historically outperformed assumptions Arrow underwriting process and asset classes improves data • Performance continues to improve Drives outperformance Underperformance analysed and - currently at 104% recycled into future underwriting · Leads to improved cashflow and revaluations of the book Learnings from underperforming Performance has continued to improve despite moving into new markets and assets translated into future success asset classes - underlines quality of acquired platforms

## Our platform gives us strong underwriting capability across all markets



- Typical staff profile MSc or PhD in quantitative subject
- In-house platforms have extensive experience Whitestar in Portugal active in secured NPL management since 2007

## Our selective investment approach generates predictable cashflows



### **Examples of recent passed deals**

#### **Italian Mixed**

- Approx. purchase price: £50m - £100m
- Competitive process
- Withdrew based on data quality and deal complexity

#### **PT Secured**

- Approx. purchase price: £30m
- Secondary sale
- Competitive process
- Withdrew based on diligence findings

#### Italian Utilities

- Approx. purchase price: £5m
- Competitive process
- Withdrew based on data quality

#### UK Unsecured

- Approx. purchase price: £15m
- Performing file
- Off market process
- Withdrew based on diligence findings

Arrow will pass on deals if the returns or data quality are inadequate

## Rigorous underwriting process by asset class



Arrow has underwritten over 1,000 deals since inception and bought 540 portfolios

## **Cost projections**

### Costs forecast formulated with local operational team

- Collection activity costs
- Onboarding costs
- 3rd party costs
  - Litigation costs
  - Broker fees
  - Minor capex, etc....

Insourcing of collection activity results in lower lifetime cost profile

- Lower in aggregate than when outsourced; but
- More front loaded with higher costs in years 1 and 2 and material decline thereafter

Unsecured litigation costs also more front loaded

 majority incurred within 24 months of on boarding Results in elevated costs in years 1 and 2 but then

- Faster cash flows
- lower ongoing costs collection cost intensity greater up front

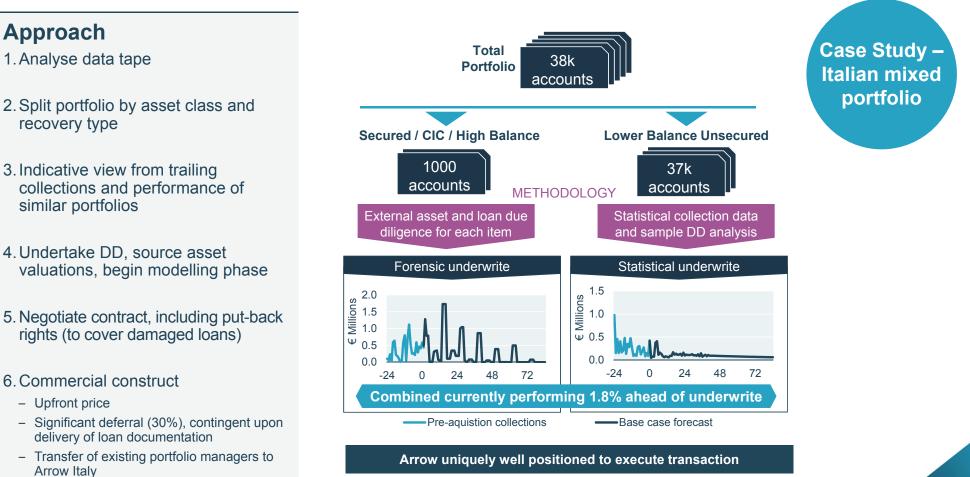
## How does our model allow successful underwriting of niche, high return assets?

#### Case Study – €17m purchase of €1bn Italian portfolio in 2017

- Off market secondary purchase
- Seasoned and diverse portfolio, mix of
  - Consumer & SME
  - Secured & Unsecured assets
- Divestment of non-core NPL position for the seller. Portfolios originally acquired between 2005 and 2010. Book now in run off
- Portfolio master serviced by Zenith
   pre acquisition
- **Complex underwriting process** given diversity and aging of the assets
- Process timeline



## How does our model allow successful underwriting of niche, high return assets?



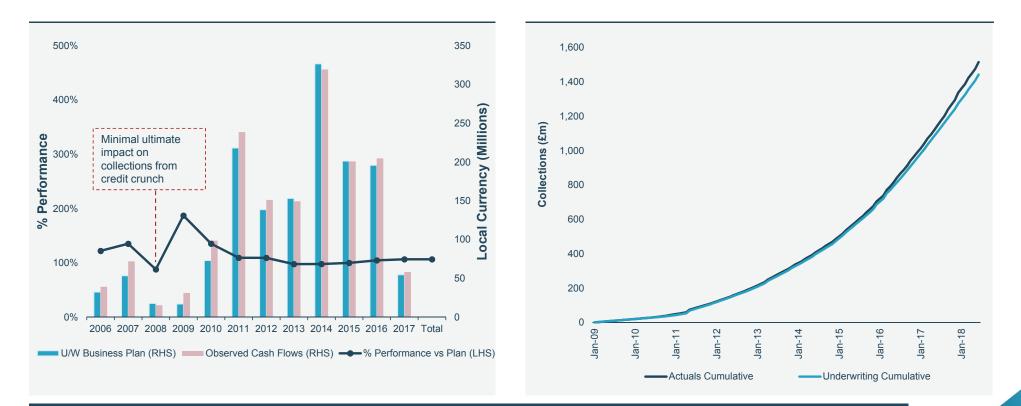
## How do we approach underperforming portfolios?

Case Study - acquisition of €83m face value Portuguese secured portfolio				
Asset composition	Initial performance materially adverse to forecast		Similar portfolio acquired from same bank	
<ul> <li>On-market transaction from bank</li> <li>Majority residential assets</li> </ul>	<ul> <li>Migration challenge</li> <li>Delays in document delivery</li> </ul>	Accumulated underwriting learnings applied to future deal with similar characteristics	<ul> <li>Modified contract with seller</li> <li>Ensured irrevocable power of attorney for Arrow's Whitestar business to manage the accounts directly is portfolio not fully migrated after 30 days</li> </ul>	

• Resulted in materially improved performance vs. forecast



## Average outperformance of 104% across 540 Arrow portfolios underwritten since inception

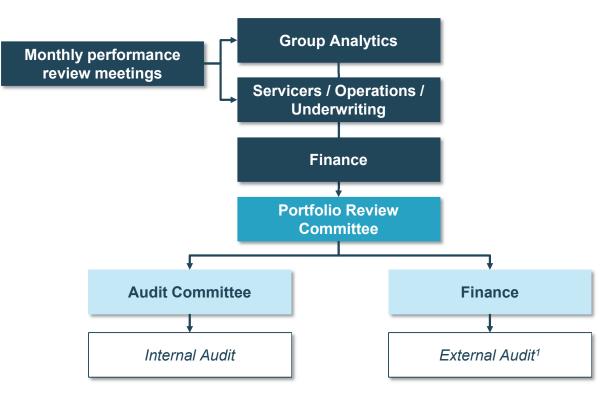


Underwriting discipline leads to consistent outperformance over time

## Consistent cashflow outperformance leads to revaluations of assets

Constant monitoring and rigorous evaluation process	Revaluation assessed via stringent analytics	Outcome based on performance and audited externally		High level revaluation overview	
			•	Point of portfolio acquisition	$\odot$
<ul> <li>All portfolios reviewed every 6 months, following initial incubation period</li> </ul>	<ul> <li>Similar approach to initial underwrite – improved by operational knowledge</li> </ul>	<ul> <li>Forecast presented to auditors</li> <li>Approved</li> </ul>		Performance tracked on a monthly basis through portfolio review meetings	$\odot$
<ul> <li>(6 months)</li> <li>Any portfolio with &gt;</li> </ul>	and access to credit bureau data	independently		Post purchase 6-monthly revaluation cycle	$\odot$
10% variance (subject to a de minimus absolute amount)	<ul> <li>Suite of models by country used to reforecast</li> </ul>			Feedback loop into underwriting	$\odot$
flagged for revaluation	<ul> <li>Monte Carlo simulation model (5 component models) used – forecasts account behavior for next 120 months</li> </ul>			<ul> <li>Development of in-house models</li> <li>Calibration of underwriting forecasts</li> <li>Review of pricing assumptions</li> </ul>	

## Strong governance underpins revaluation process



1. External auditor opined that Arrow's carrying value of purchased loan portfolios and loan notes (which is based on present value of forecast Expected Remaining Collections) is acceptable using procedures involving control observation, control design, sector experience and historical comparisons (see p85 of Arrow's 2017 Annual Report)

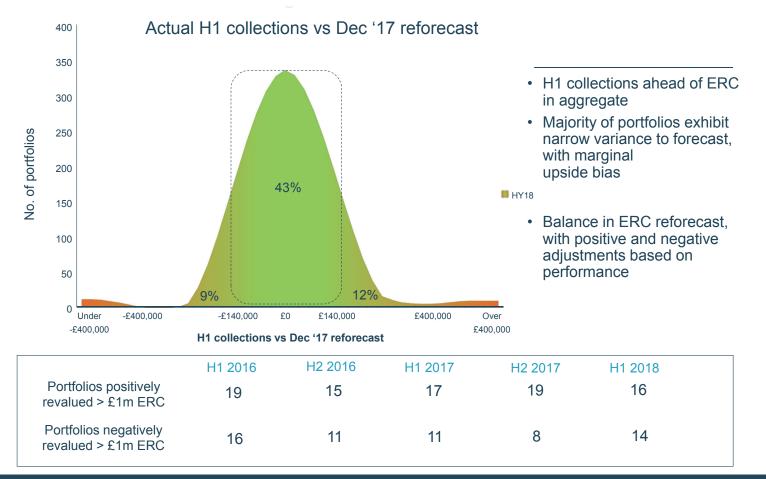
Revaluation process involves rigorous internal and external audit

## How does performance lead to revaluations?

### **Case Study –** Revaluation of Portuguese unsecured portfolio



## Portfolios perform in line with forecasts



Consistent performance vs ERC and a balanced approach to revaluations

Strong underwriting capability

Selective and disciplined approach

Consistent underwriting performance

Balanced approach to revaluations

- Tenured team of technical specialists with experience across markets
- Extensive and maturing library of assets across all markets
- Analytical approach and operational insight results in predictable cash flows

- Selective investment approach
- Rigorous approach to underwriting across asset classes
- Investment performance has historically outperformed assumptions
- Performance continues to improve – currently at 104%
- Consistent performance across vintages

- Regular portfolio monitoring and balance approach to back book revaluations
- Robust governance
- Leading to consistent performance vs. ERC

Clodagh Gunnigle Group CRO

# VI. Risk management and resilience

## Our focus on risk improves performance and mitigates downside

Role of risk in delivering a sustainable long-term franchise

- The Risk Management framework ensures strategy:
  - Balances long-term risk and return
  - Delivers within risk appetite
- Drive a robust and dynamic Risk Management culture
- Enables proportionate capacity, capability and infrastructure plans

What do I worry about...?

- External factors top of mind:
  - Geo-political uncertainty
  - Increasing regulatory requirements
- Internal challenges well understood

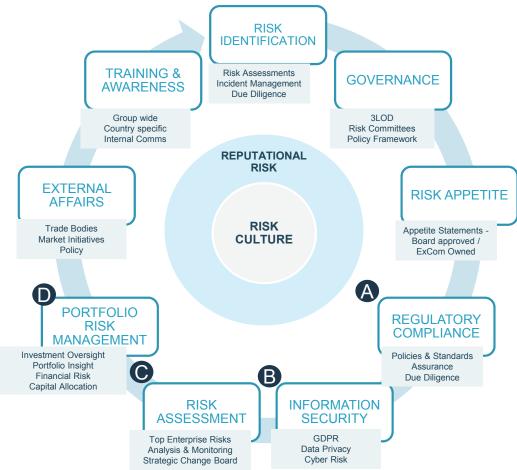
**Arrow Portfolio Resilience** 

- Portfolio increasingly diversified by asset class and geography
- Scenario analysis provides 'no deal' Brexit comfort

## Group risk management team

Group CRO	Enterprise & Operational Risk	Portfolio Risk	Country Risk & Regulatory Compliance	InfoSec & Data Protection	External Affairs
<ul> <li>Career Summary</li> <li>20 years in Risk Management</li> <li>GE Capital for 17 years</li> <li>CRO, Chief Credit Officer GE</li> <li>Deep UK &amp; European experience</li> </ul>	<ul> <li>Career Summary</li> <li>18 years in Credit Risk, Operations and Enterprise &amp; Op Risk, including 14 years with GE Capital</li> <li>CRO/approved person in Ireland during post- crisis period</li> <li>Experienced in multi- platform, highly regulated businesses</li> </ul>	<ul> <li>Career Summary</li> <li>20+ years in risk management</li> <li>Italian market SME (w/ 5 years as CRO with Sigla Group - Italy)</li> <li>Significant portfolio pricing experience</li> <li>Extensive track record in portfolio mgmt.</li> </ul>	<ul> <li>Career Summary</li> <li>30+ years in banking &amp; finance</li> <li>Ex-Mars UK &amp; Ireland CRO</li> <li>Commercial Real Estate SME</li> <li>Strong Ireland risk leadership (Irish Bank Resolution Corp)</li> </ul>	<ul> <li>Career Summary</li> <li>12 years in cyber security and data privacy</li> <li>SME within the field of data protection</li> <li>Ex-PWC UK data protection lead and ICO audit lead</li> <li>Extensive cyber defence track record</li> </ul>	<ul> <li>Career Summary</li> <li>30+ years industry and regulatory experience</li> <li>Ex-CEO of UK debt purchaser</li> <li>Vice President of FENCA, lead on Code of Conduct for GDPR</li> <li>Previously President of UK Credit Services Association</li> </ul>
	<ul> <li>Responsibilities:</li> <li>Enterprise Risk Framework</li> <li>Risk Governance &amp; Oversight</li> <li>Risk Appetite</li> <li>Risk Culture</li> </ul>	<ul> <li>Responsibilities:</li> <li>2<sup>nd</sup> Line Oversight of Origination</li> <li>Financial Risk Management</li> <li>Group MI &amp; Reporting</li> <li>Model Review</li> </ul>	<ul> <li>Responsibilities:</li> <li>Lead country CROs</li> <li>Country adherence to risk framework</li> <li>Conduct &amp; Regulatory Risk Management</li> <li>Collections Strategy</li> </ul>	<ul> <li>Responsibilities:</li> <li>Cybersecurity defence</li> <li>Group InfoSec strategy</li> <li>Security threat monitoring</li> <li>Infosec Governance &amp; Reporting</li> </ul>	<ul> <li>Responsibilities:</li> <li>Influence regulatory stakeholders</li> <li>Oversee external affairs</li> <li>Lead Brexit Working Group</li> </ul>

## Risk management framework



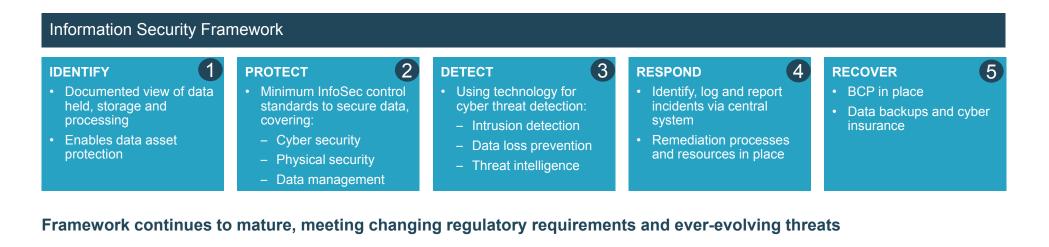
Framework components support governance and decision making across the Group

## A. Regulatory compliance

Regulatory Landscape	Regulatory Sompliance standards	Onboarding 📀	Servicing
<image/> <image/>	<ul> <li>Regulatory Parity with Bank's (seller) standards</li> <li>Continued risk and compliance monitoring, including thematic and risk based reviews</li> <li>Ongoing AML screening, suspicious activity reporting and portfolio screening</li> <li>Management of reputational risk with respect to third-parties</li> </ul>	<ul> <li>Due diligence of vendor compliance history</li> <li>Review conduct issues</li> <li>Determine legal and regulatory conditions</li> <li>Inform future collection strategies</li> <li>Originator screening for reputational risk</li> </ul>	<ul> <li>Optimise customer journey</li> <li>Minimise operational risk losses</li> <li>Control arrears management and litigation processes</li> <li>Oversight of 3<sup>rd</sup> party service providers</li> </ul>

## **B.** Information security

- Defined framework of Group minimum standards, using international standard for information security ISO 27001
- Our 3-year information security strategy covers people, process, technology, data and org design
- Information Security Framework sets tone for management of cyber risks under a five step approach:



## C. Risk assessment – Top enterprise risks

KS	MITIGANTS
<ul> <li>Delivering long-term operational gains</li> <li>Pricing Risk (on vs off-market opportunities)</li> <li>Reputational Risk</li> </ul>	<ul> <li>Detailed strategy defining operational initiatives</li> <li>Clear capital allocation framework, strong origination franchise</li> <li>In-country expertise, industry body leadership</li> </ul>
□ Funding Risk	<ul> <li>External funding out to 2023, strong cash interest coverage and underlying leverage</li> </ul>
Risk / return assumptions	□ Strong governance & 2 <sup>nd</sup> Line oversight, U/W track record
Regulatory: Fulfilling increasing conduct expectations	□ Local expertise, leveraging UK experience, external affairs
Cyber Risk: Info Sec & defence strategies	PwC verified approach, defined min standards & roadmap
□ Integration Risk: Ensuring acquisitions align with AGG	Prioritise embedding of risk governance into new businesses and align with IT infrastructure planning
□ 'No Deal' Brexit	Independent country licenses, Euro bonds, stress testing
□ Italy & EU geo-political environment	Local expertise, Portfolio Management at Group level

Top Risks and mitigating actions managed through culture and tracked at risk committees

## D. Portfolio risk management overview

#### 1. INVESTMENT OVERSIGHT

#### **Key Activities:**

- Credit Committee Representation
- Investment / Deal Review
- Capital Allocation Strategy

#### Key Activities:

• Group MI Infrastructure

**2. PORTFOLIO INSIGHT** 

- Concentration Risk Reporting
- Risk Appetite Reporting & Triggers
- Underwriting Performance Monitoring
- Macro-Economic Reporting & Forecasting

#### **Key Activities:**

Scenario Analysis

**3. FINANCIAL RISK** 

- Risk Appetite Framework
- Concentration Risk Framework
- Asset Indexation & Valuations Framework
- Political & Regional Risk

#### **Key Activities**

Origination & Pricing Model
 Oversight

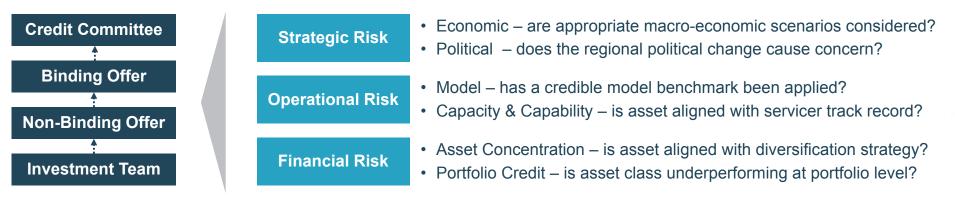
**4. MODEL GOVERNANCE** 

- ERC Model Review
- IFRS9 / Impairment
   Oversight

Overseeing balanced, consistent and measurable risk-adjusted return growth

## D. 1. Portfolio risk management – investment oversight

#### 2<sup>nd</sup> Line Challenge aligned with Group Risk Appetite



#### **Approval Target**

#### **Optimal deal criteria**

- Strategic risk in line with strategic focus, meets asset and geographical targets, process not over-competitive
- Operational risk no regulatory concerns, asset meets servicing capability and capacity constraints
- Financial risk solid pricing assumptions, aligned with target IRR and money multiples, no concentration risk, meets capital allocation framework

#### **Declined Example**

#### £36m UK IVA sale

- Strategic risk previous asset class sale processes highly competitive
- Operational risk FCA guidance raises potential concerns over enforceability
- Financial risk low money multiples with downside from regulatory concerns

## D. 1. Portfolio risk management – investment oversight



- 3 Monitor regulatory change, anticipate macro-economic turning points impacting upon "cash cows"
- 4 Review ability to turnaround "challenges" or seek exit

## D. 2. Portfolio risk management – portfolio insight

#### Arrow Group Purchase History – UK only by Asset Class



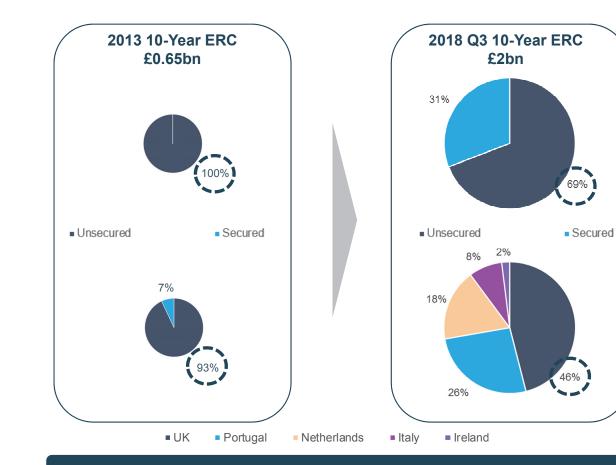
#### Arrow Group Purchase History – Non-UK by Asset Class



- Strategy to diversify away from UK originations has been pursued - £151m of the £199m purchases in 2018 in € denominated assets
- Asset class diversification towards Commercial Real Estate and Italian niche investments (Europa Investimenti) further mitigates group concentration risks
- In addition to strong 2<sup>nd</sup> line oversight of origination activity, regional and asset class diversification brings need for enhanced scenario frameworks

Note: analysis performed upon Arrow Group deals completed to end 2017 alongside closed and committed deals to Q3 2018

## D. 3. Portfolio risk management – scenario analysis Brexit



- Diversification strategy successful
  - gradual introduction of secured assets
  - dilution of exposure to UK
  - targeting broader geographical spread

## D. 3. Portfolio risk management – scenario analysis Brexit

GFC most significant macro-economic event since 1930s

GFC UK Macro-Economic Indicators
--

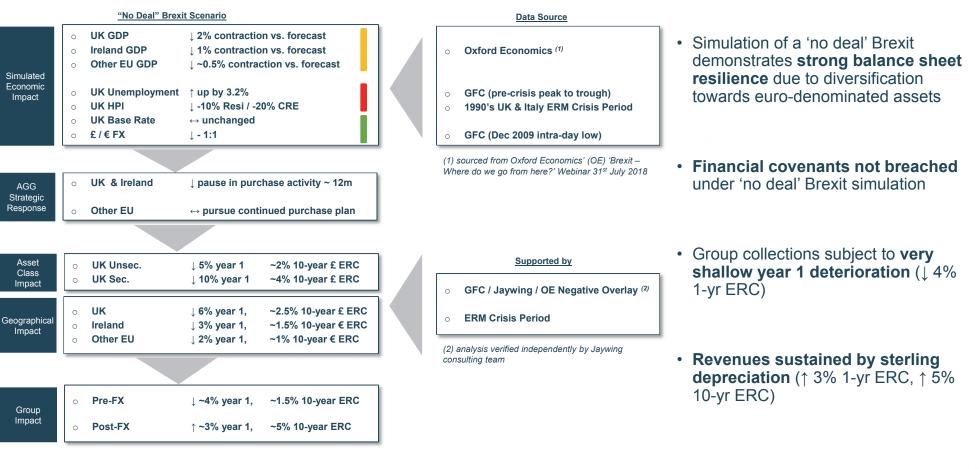
Post Brexit vote, AGG assessed portfolio resilience over GFC period with analysis independently reviewed by seasoned UK consultancy team, Jaywing

Analyses Sample	<ul> <li>Portfolios selected</li> <li>"Through-the-cycle" analysis</li> </ul>	2005-2008 Purchases 2007-2009 Vintages
Analyses Results & Impact	<ul> <li>Arrangement payment rates</li> <li>Arrangement payment values</li> <li>Settlement rates</li> <li>Settlement values</li> </ul>	<ul> <li>↔ Unchanged</li> <li>↓ Some deterioration</li> <li>↔ Unchanged</li> <li>↔ Unchanged</li> </ul>
	<ul> <li>○ Year 1 ERC</li> <li>○ 10-Year ERC</li> </ul>	↓ ~5% ↓ ~2%

Only payment values suffered deterioration, year 1 ERC showed strong resilience (↓~ 5%) Year 1 deterioration mitigated by 10-Year ERC bounce back (↓~ 2% overall)

Arrow's back book proved resilient following GFC

## D. 3. Portfolio risk management – scenario analysis Brexit



Note: Brexit simulation based upon comparative analysis of historical macro-economic scenarios and does not represent a statistical stress-test

## Key takeaways

1	Established risk management framework
2	Seasoned team with broad risk management expertise
3	Significant resource dedicated to identifying and mitigating potential risks
4	Strong portfolio dynamics, a resilient business during an economic downturn
5	Robust risk culture imperative to sustainable performance through the cycle

Dave Sutherland Group COO

## VII. Operational excellence

## Arrow's continuing journey to operational excellence

Continuing progress on driving **Opportunity to drive next phase** New 'Big 3' initiatives setting the operational efficiency path to 60% cost to income ratio of efficiency without significant investment 'One Arrow' Investment Programme New acquisitions and growth have Lean and Process Improvement, transforming Performance, Culture and created platforms and scale to leveraging internal best practise and

- Customer Outcomes on track to complete this year
- Group-wide programme delivering scalable, best in class platforms, optimised to support future growth
- leverage synergy and economy of scale
- Developed new strength and depth in leadership and specialist capability
- expertise and promoting efficiency and automation
- Cross Group Procurement, leveraging scale and taking advantage of location
- Technology Synergy and Integration, promoting synergy and centres of excellence

# One Arrow investment programme – what have we spent and achieved so far?

#### Group-wide programme delivering scalable, resilient platforms, optimised to support future growth

'ONE ARROW' investment programme structure

Consolidating office space	BUILDING ONE ARROW	Launch the Company's purpose and values	INVESTMENT	KEY BENEFITS
(moved from 5-1 offices in the Netherlands)	Strengthening Group governance and core capabilities	'Building Better Financial Futures' for all stakeholders	<ul> <li>£22 million 2017 and 2018</li> <li>50/50 split across capex &amp; opex</li> </ul>	<ul> <li>Streamlined operational processes</li> <li>Enhanced IT platforms</li> <li>Office consolidation</li> <li>Governance and oversight</li> </ul>
Investment in the customer journey through digital (improving service and productivity)	Enhancing the value of our back book (accelerating data and analytics capabilities across Group)	Investment in people to improve centres of excellence (Origination, Data & Analytics, Portfolio Management, Risk Management, Change & IT)		<ul> <li>oversight</li> <li>Improved customer journey</li> <li>Expanded product capability</li> <li>Strengthened asset management capabilities</li> </ul>

#### Success of the One Arrow investment programme

One Arrow has delivered significant results, supporting our growth based on centers of excellence, customer journey enhancement and increasing productivity

Scope

#### **Case Study/Best Practice**

**ONE ARROW** 

#### Digital Self-serve portal £530k operational cost reduction $\Delta \mathbb{Z}$ transformation New customer channels 23% uplift in digital registrations • 20% increase in digital contribution Digital payments Customer Customer forums • +5% customer satisfaction (H1 2017 v. H12018) **Outcomes** Customer journey optimization +40% reduction customer complaints Quality assurance Standardization Lean + 50% collections productivity Benchmarking and optimisation +€600k/ year savings Performance monitoring Customer satisfaction increase **Call center** Dialler expertise Abandon rate reduction optimisation Optimization of processes and resource allocation 20% increase in collections effectiveness for outbound teams Performance monitoring Automation of core and support processes Automated equivalent of 32 FTEs already **Robotics** Al and data science solutions. • Initiating tests with AI/OCR and human emulators

**Benefits** 

# Our digital transformation journey is already improving operations



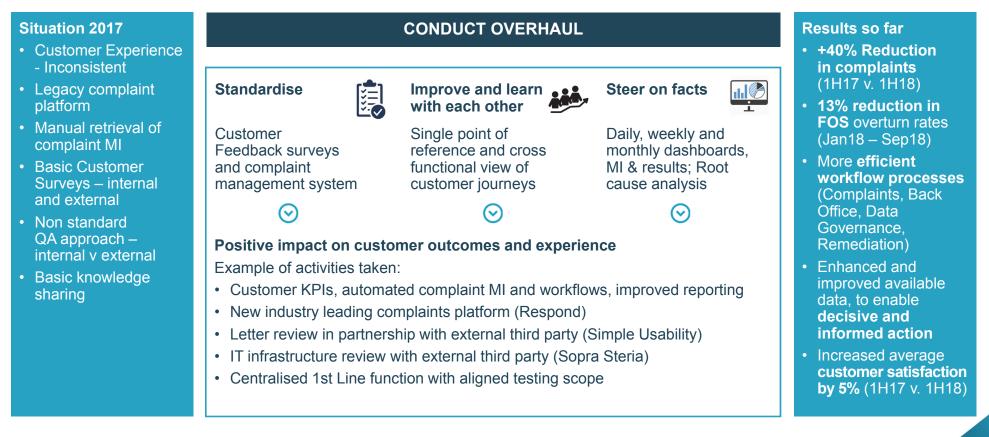


#### APPROACH: EVIDENCE BASED CUSTOMER INSIGHT PROGRAMME

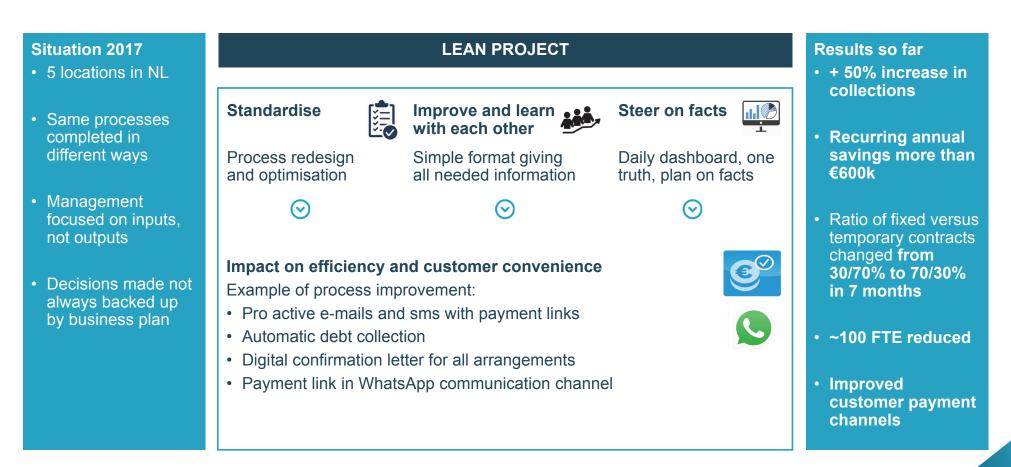
	Customer Onboarding Portal Usage	IVR system	Competitor benchmark	king	Age	nt interac	tions	
Methodology	<ul> <li>52 research sessions with specifically recruited users for in-depth usability lab sessions</li> <li>Eye tracking equipment to allow users to engage with the specific collateral and portal journey</li> <li>34 research sessions with specifically recruited users &amp; agents</li> <li>Variety of research methods covering; in-situ observations, in-depth interviews, heuristic evaluations and benchmarking</li> </ul>							
Actions Undertaken	<ul> <li>Created prototype collateral, with more focussed branding</li> <li>Simplified letters to reduce complexity and confusion around who to contact</li> <li>Customers prefer the online portal – pay larger amounts</li> <li>Settlement offer more explicitly highlighted encouraging faster payback</li> </ul>	<ul> <li>Added IVR to SMS (receive link portal)</li> <li>Easy and seamless entrance to</li> <li>Agent training and workflows to o adoption</li> <li>Agents incentive scheme for protthe portal</li> <li>Arrow outperforms key competing across most user needs</li> </ul>	the portal ptimise motion of Comp.1 Comp.2	Understand account	Payment plan option	One-off payment option	Keep details up to date	

## We're already improving customer outcomes





## We have successfully streamlined our operations



# We are optimising the data and robotics across our call centres

Measured and analysed the

Identify biggest pain points.

the largest impact.

Define improvements that bring

process

pdf files



ROBOTICS

## Identified the opportunity & scope

- Improve Collections effectiveness
   of the Unsecured platform
- Defined metrics to improve: Operational Efficiency



#### 2016-2018



#### 2018-2019



• **Cognitive OCR** will be piloted during Q4 2018 to catalogue and extract data and learn to recognise and extract content using machine learning.

 24 crawlers currently used to access over 5 external portals, to automatically access and upload or download content.

• **Xtractor**, developed inhouse, used to recognise text and patterns in

• Human Emulators can replicate human steps in multiple systems - Testing our first emulator in Q4 2018.

#### Measured and analysed the process

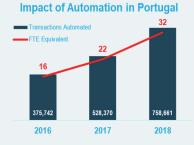
- Communicate why we need to improve
- How can you help?



#### Measured and analysed the process

- Optimising the Dialler Tech and performance monitoring
- Changing the operating model to increase penetration and contactability
- Automating manual steps





Piloting the last generation of robotics technology and spreading these applications to all geographies

93

#### New Opportunities in leveraging the Group's larger scale Acquisitions over the past 18 months have strengthened the franchise and provided opportunity for leveraging benefits from the diverse platforms



**EVOLVING JOURNEY - ONE ARROW AND OPERATIONAL EFFICIENCY** 

## Enhancing capabilities and delivery

Group COO

New Group COO leadership team, accountable for Transformation, Delivery, Customer Experience, Cost Income & Security New governance structure and forums

• Clear and transparent operating model, accountabilities and deliverables, aligned across Group and Countries

• Senior leaders experienced in Pan European asset management sector

• Demonstrated transformation and delivery capabilities, driving improved Cost Income ratios, Customer experience and Operational efficiencies



Monthly Group Risk Meeting

Monthly Country leaders forum

Monthly Group Change Board

**Monthly Performance Meetings** 

## Optimising our improved platform's scale

#### 'Big 3'



Lean, Automation & Digital Transformation



Cross Group Procurement Technology Synergy and Integration

2772

3

#### **5-YEAR FOCUS**

- Reduce Cost-to-Income ratio
- Drive synergies and cost reduction
- FTE reduction
- Continue to improve Customer Outcomes
- Service quality & consistency
- Best-in-class operating model
- Shared Service models
   where relevant

## LEAN - streamlining the platform and improving digital capability

#### Lean, Automation & Digital Transformation

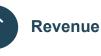
#### **Objectives**

- Deliver cumulative group lean cost saving initiatives
- Share best practise, development of teams
- Clear governance forums, reporting and measuring tools
- Business simplification, improve process efficiency. increase consistency / standardisation
- Capacity to adapt to the changing environment and supporting innovation (Digitisation, AI, Robotics)
- Culture of continuous improvement and collaboration





Cost-to-Collect



Margins (%)









Approach

Step 1: Lean process efficiency / standardisation Training and development

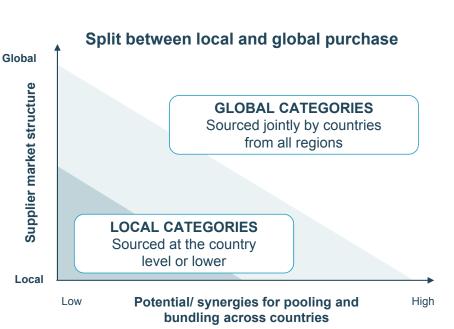
Step 2: Automation (AI and Robotics)

Culture of continuous improvement and collaboration Performance Management

## Procurement - leveraging scale and taking advantage of location



- Implementation of cost reduction strategies on main categories
- Leverage the best practices across platform
- Creation of a new function at Group level, responsible for:
  - Defining the standards
  - Conducting centralised processes
- Split between local and global purchase, based on a purchase matrix:
  - Global categories: Sourced jointly by countries from all regions
  - Local categories: Sourced at the country level or lower
- Apply cost reduction strategies:
  - Contract renegotiation
  - Suppliers' consolidation
  - Reduction of consumption



Local v. Group

## IT – promoting synergy and centres of excellence

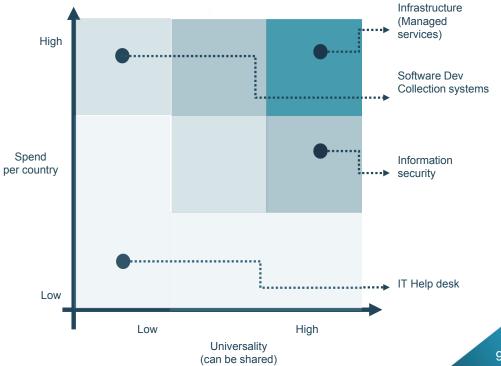
#### **Technology Synergy & Integration**

#### Approach

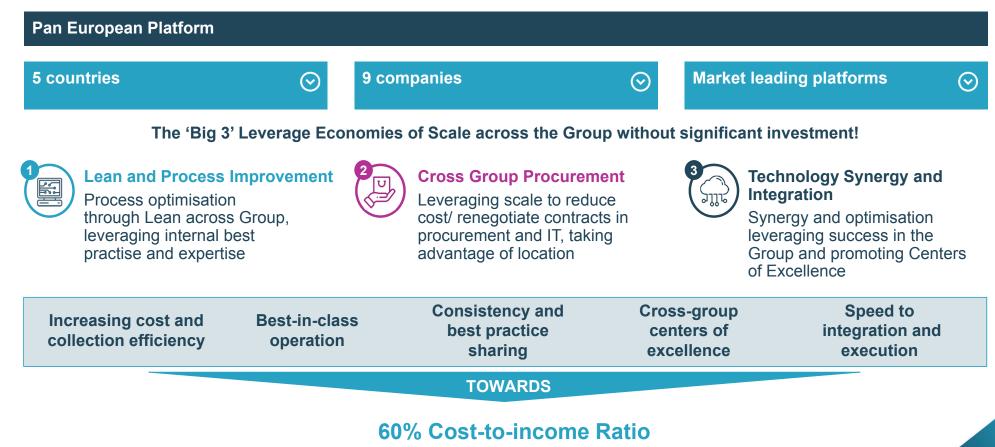
- Drive opportunities for process centralization, standardization and cost reduction
- · Focus where spend is high & there is high sharing potential

#### Levers

- Country agnostic services and capabilities (internal or 3rd party): Move and centralise
- Country agnostics technologies, tools and applications: Use consistent products, buy collectively and share environments
- "Buy not build" and "Rent not buy" where possible:
  - Use Cloud not run our own datacentres & buy our own servers
  - Make use of Off-the-shelf products & not build form scratch
  - Seek subscription based (rent) products, not buy
- Create Group IT capability to deliver the program



# We can leverage the scale of the pan-European platform to drive efficiency – no need for further investment





## VIII. SUMMARY & FINANCIAL OUTLOOK

Strong Track Record of Delivering Financial Performance

#### Overview of business segments Strong contribution from both operating segments

# Continue to source assets at mid-teen unlevered IRR targets (~16% in '18 YTD)<sup>1,2</sup> Record portfolio investments of £200m in '18 YTD<sup>1</sup> Breadth & strength of origination and servicing platform producing a diversified vintage (~74% off-market)<sup>1</sup> EBITDA margins of ~56% Capital-light revenue from services to Group companies as well as 3<sup>rd</sup> parties Since IPO, revenue grown from ~£1m to ~£70m in FY17 Represents >30% of Group revenues EBITDA margins of ~19%

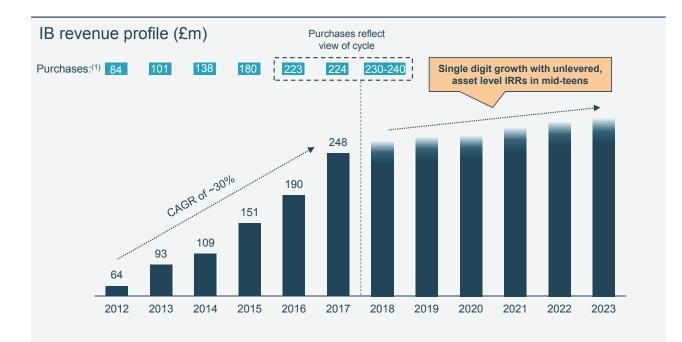
Group Functions

- Costs from Group oversight not directly attributable to the operating business segments
- E.g. Group executives, finance, risk, internal audit and governance

1. 2018 YTD as at 30 September 2018

<sup>2.</sup> Net of collection activity costs

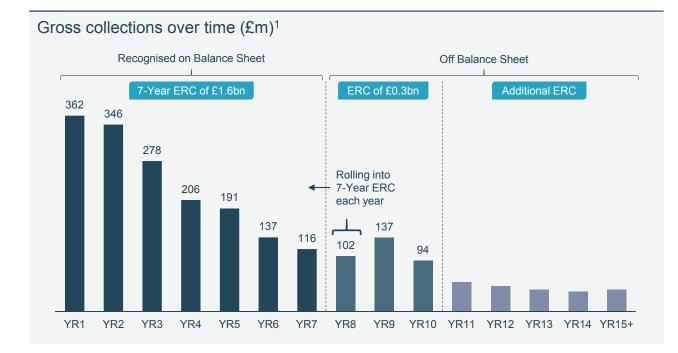
### IB business – growth guidance Growth with balance sheet discipline



1. 2016 purchases of £223m excludes £35m relating to the purchase of the Vesting back book

- High performing business segment with high barriers to entry
  - Deep and broad relationships with banks / credit funds / financial institutions
  - Strong underwriting capability and access to comprehensive database
  - Stock of £52bn AUM provides stock of secondary purchases
- Focused on disciplined capital allocation
  - Historical growth boosted by M&A → focus now on organic growth
  - Purchase volumes over last 3 years reflect view of the cycle
  - Continue to purchase in excess of replacement rate
  - 5-Year Target: Single digit revenue growth with unlevered, asset level IRRs in mid-teens
- Expect to delever unless cyclical conditions make increased capital intensity attractive

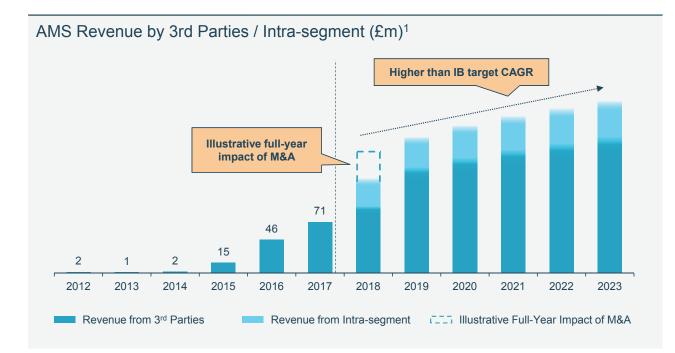
## IB business – expected remaining collections (ERC) Significant value beyond conservative 7-year recognition period



- Significant off-balance sheet value due to our conservative accounting policy
  - Only company in peer group to only recognise next 7 years' collections on balance sheet
  - Majority of peers reflect 10 to 15 years
- Recurring P&L benefit from portfolio revaluations reflect:
  - "Roll" forward of Year 8 ERC coming onto Balance Sheet
    - Mechanical adjustment to ensure book value continues to reflect NPV of 7-Year ERC discounted at gross yield defined at the time of purchase
  - Higher forecast ERC if collections not achieved, write-downs hit P&L
    - No write-downs experienced at aggregate level to date

1. 2018 YTD as at 30 September 2018

## AMS business – growth guidance Faster growth expected for high quality, capital-light revenues



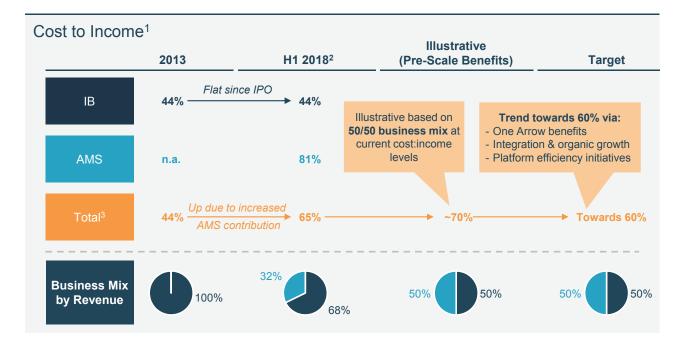
- 1. Arrow commenced segmental reporting in H1 2018; total revenue figures for 2012-2017 only include revenue from 3rd parties
- 2. Norfin transaction expected to complete by the end of 2018

- European platform established → focus on integration & organic growth
  - Capital-light revenues complement capital intensive IB business
  - AMS underpinned by stable, long-term contracts (average length of ~5 years)
  - 5-Year Target: Grow faster than IB, doubling revenues and trending towards 50% of Group
- Growth supplemented by fund management business established via:
  - £300m partner arrangement (50% deployed) & EI and Norfin<sup>2</sup> fund capability
  - Expected launch of new Arrow funds → contribution from 2021+
- **Targeting higher AMS margins** via business mix, fund management and operational gearing

- 5-Year Target: EBITDA margins in mid-20s

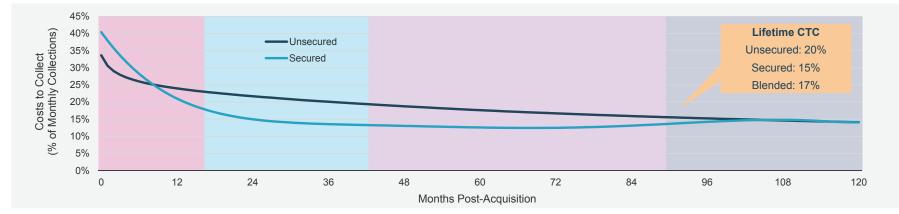
• Significant AMS FCF contributes to dividends and IB purchases (above replacement rate)

## Cost evolution Cost growth driven by M&A / Investment – rate to taper



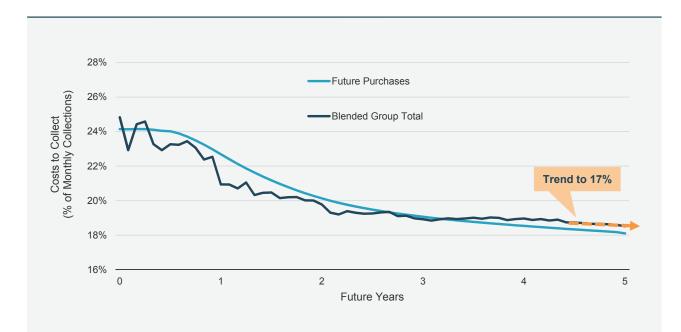
- Cost base grown due to M&A / investment
  - Investment supports growth through centres of excellence, centralisation of staff into fewer locations, strong operations / IT
  - Cost to income ratio of underlying IB segment flat since IPO
- Cost to income ratio expected to benefit from:
  - One Arrow programme to be completed in 2018 – drives improved operational gearing
  - Growth in overheads to slow with focus on integration and organic growth
  - Platform efficiency initiatives
- New AMS growth target slows progress of cost to income towards 60%
- 1. Represents underlying cost to income ratio which excludes items that are not considered by the Board to be representative of the ongoing performance of the Group
- 2. As at 30 June 2018
- 3. Includes Group Function costs (£16m in H1 2018) and intra-segment elimination (£18m in H1 2018)

## Costs to collect – typical direct curve Lifetime CTC profile for unsecured and secured portfolios



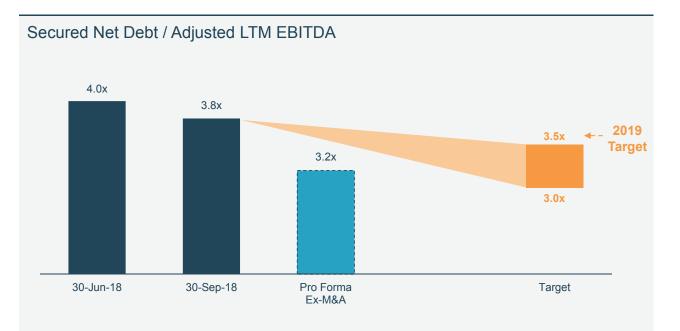
	Unsecured	Secured
	<ul> <li>Costs initially high as portfolio on-boarded, letters sent, and collection activity increases (e.g. tracing work, litigation activity)</li> <li>Costs high due to large volume of low balance accounts</li> </ul>	<ul> <li>Similar to unsecured – costs highest as portfolio on-boarded and initial activity starts</li> <li>Initial CTC ratio higher than unsecured due to additional 3<sup>rd</sup> party costs (e.g. notary fees, initial court costs)</li> </ul>
l	<ul> <li>Ramp-up in collections reduces CTC ratio as payment plans come into effect and book becomes steady state on the servicing platform</li> </ul>	<ul> <li>CTC ratio reduces faster than unsecured as accounts progress through the court system and require less day-to-day activity</li> <li>Higher % recovery of balance than unsecured further reduces ratio</li> </ul>
l,	Costs steadily reduce as collection activity reduces due to accounts paying down their balances and majority of books having been worked through by collection teams	<ul> <li>Long term churn of activity (lower than first 2-3 years) results in flattening of costs as internal activity reduces but 3<sup>rd</sup> party costs remain steady (e.g. broker fees on property sales)</li> </ul>
	Costs in long-term run-off as portfolio continues to age	<ul> <li>Slight uplift in CTC ratio in final years as remaining assets are worked through and any shortfall is collected</li> </ul>

### Costs to collect – curve evolution Back book & front book contribution over time



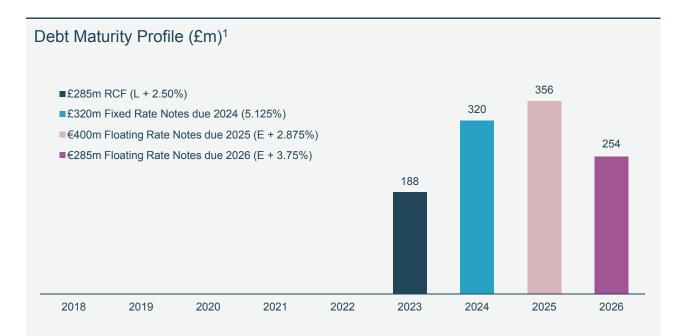
- Illustrative profile assumes future purchases of £230m p.a. split 60% secured / 40% unsecured
- Initial CTC profile remains relatively high
  - Front book vintages have higher CTC % in Year 1
  - Back book has decreasing CTC % due to reducing upfront costs on secured portfolios & changing unsecured / secured mix
- Overall CTC profile starts to fall in Year 2-3
  - Front book CTC % starts to fall in Year 2-3 as new vintages aggregate and mature
  - New purchases also have less weighting
- Long term, steady state trend marginally above 17% due to ongoing front book purchases

### Balance sheet – new leverage target Strong ability and commitment to delevering



- Maintained balance sheet discipline to deliver leverage within previous target range of 3.5-4.0x
  - Removing platforms acquired since 2012 would materially reduce leverage
- Leverage target reduced to 3.0x-3.5x → expect to be at top of new range by end of 2019
  - Substantial cash generation from existing ERC
  - Growing cash contribution from AMS further naturally delevers
  - Significantly slowing M&A with strong focus on organic growth
- Considerable financial firepower going forward
  - Replacement rate self-funded and significant proportion of growth above replacement rate funded by FCF (e.g. ~30% in 2017)
  - Significant flexibility to capitalise on investment opportunities

## Balance sheet – long-term funding Significant headroom & no bond maturities due until 2024



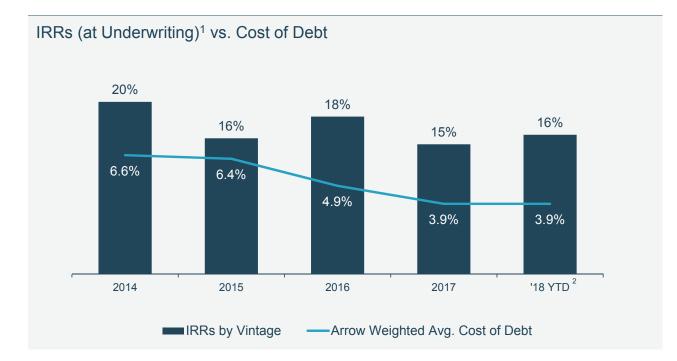
1. 2018 YTD as at 30 September 2018

2. Excludes £30m upsizing of RCF completed in Q4 2018

#### Weighted average cost of debt of 3.9% and no bond maturities until 2024

- Gross collections of £1.5bn before first bond maturity
- Liquidity further enhanced by increasing RCF to £285m in Q4 2018 with the addition of a sixth international bank
  - Strong support in bank market
  - Available cash and RCF liquidity of £129m at Q3  $2018^2$
- Diversification of business through growth of AMS provides FCF
  - Medium term organic funding requirements are largely self-funded
- Continue to explore diversification of funding to further supplement headroom

## Balance sheet – competitive advantage Market returns expected to be correlated with cost of debt



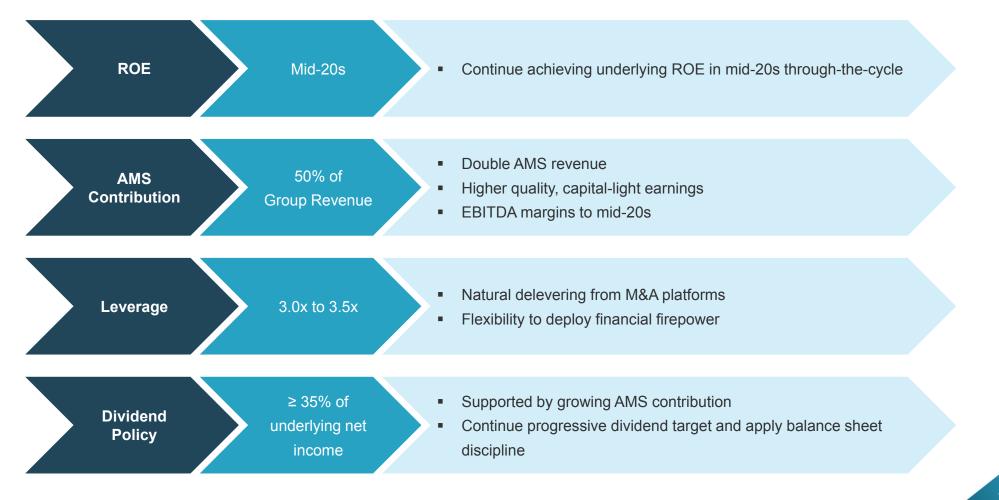
- Low rates have increased portfolio pricing &interest reduced returns (from market highs)
  - Arrow continues to deliver mid-teen unlevered IRRs via our higher margin, niche markets
- Under rational markets → expect rising GMMs and higher IRRs in medium term
- Arrow is uniquely positioned to take advantage of any opportunities
  - Successfully refinanced our balance sheet with no bond maturities until 2024
  - Competitive funding cost advantage with WACD of 3.9% locked in

- 1. Net of collection activity costs
- 2. 2018 YTD as at 30 September 2018

#### Capital Allocation Framework Choice of returns-focused capital allocation depends on view of cycle



### 5-year targets



## Key takeaways

Investment Business	<ul> <li>Single digit revenue growth targeting unlevered, asset level IRRs in mid-teens</li> <li>Focused on disciplined capital allocation</li> <li>Expect to delever subject to cyclical conditions</li> </ul>
Asset Management & Servicing	<ul> <li>Faster growth in capital-light revenues &amp; increasing EBITDA margins</li> <li>Focused on organic growth from established European platform</li> <li>Growth boosted by fund management business</li> </ul>
Cost to Income	<ul> <li>Trending towards 60% cost to income ratio</li> <li>Benefits from One Arrow, integration and platform efficiency initiatives</li> </ul>
Leverage	<ul> <li>Clear balance sheet discipline → new leverage target of 3.0x-3.5x<sup>(1)</sup></li> <li>Significant firepower to capitalise on portfolio investment opportunities</li> <li>Uniquely positioned with no bond maturities until 2024 &amp; WACD of 3.9%</li> </ul>
Capital Allocation	<ul> <li>Capital allocation framework focused on delivering shareholder returns and varies with view of cycle</li> <li>New dividend policy to distribute ≥ 35% of underlying income through-the-cycle</li> </ul>

# Lee Rochford Group CEO

#### Investment case

1	Sophisticated investment platform in a growth market	Unlevered asset level IRRs in mid-teens
2	Increasing quality of earnings	AMS towards 50% of Group revenues and increasing to mid-20s margins
3	Consistently strong returns for shareholders	ROE in mid-20s
4	Resilient balance sheet	Leverage of 3.0-3.5x
5	Reliable through the cycle performance	Dividend policy of ≥ 35%

Sustainable return, prudently funded business model with predictable cash flows

### Important notice

This presentation has been prepared by Arrow Global Group PLC (the "Company") solely for information purposes and does not constitute, and should not be construed as, an offer to sell or issue securities or otherwise constitute an invitation or inducement to any person to purchase, underwrite, subscribe to or otherwise acquire securities in the Company or any member of the Group.

The information contained in this document is confidential and is being made only to, and is only directed at, persons to whom such information may lawfully be communicated. This document may not be (in whole or in part) reproduced, distributed, stored, introduced into a retrieval system of any nature or disclosed in any way to any other person without the prior written consent of the Company.

The information contained in this document has not been verified or reviewed by the Company's auditors and, as such, is subject to all other publicly available information and amendments without notice (such amendments may be material).

The Company makes no representation or warranty of any sort as to the accuracy or completeness of the information contained in this document or in any meeting or presentation which accompanies it or in any other document or information made available in connection with this document and no person shall have any right of action against the Company or any other person in relation to the accuracy or completeness of any such information.

Each recipient acknowledges that neither it nor the Company intends that the Company act or be responsible as a fiduciary to such investor, its management, stockholders, creditors or any other person. By accepting and providing this document, each investor and the Company, respectively, expressly disclaims any fiduciary relationship and agrees that each investor is responsible for making its own independent judgments with respect to any transaction and any other matters regarding this document.

This document contains statements that constitute forward-looking statements relating to the business, financial performance and results of the Company and its subsidiaries (the "Group") and the industry in which the Group operates. These statements may be identified by words such as "expectation", "belief", "estimate", "plan", "target", or "forecast" and similar expressions or the negative thereof; or by forward-looking nature of discussions of strategy, plans or intentions; or by their context. All statements regarding the future are subject to inherent risks and uncertainties and various factors could cause actual future results, performance or events to differ materially from those described or implied in these statements. Such forward-looking statements are based on numerous assumptions regarding the Group's present and future business strategies and the environment in which the Group will operate in the future. Further, certain forward looking statements are based upon assumptions of future events which may not prove to be accurate and neither the Company nor any other person accepts any responsibility for the accuracy of the opinions expressed in this document or the underlying assumptions. The forward-looking statements in this document speak only as at the date of this presentation and the Company assumes no obligation to update or provide any additional information in relation to such forward-looking statements.

This document is not intended for distribution to, or use by any person or entity in any jurisdiction or country where such distribution or use would be contrary to local law or regulation or which would require any registration or licensing within such jurisdiction.



# ARROW GLOBAL GROUP PLC

Q3 Results 8 November 2018

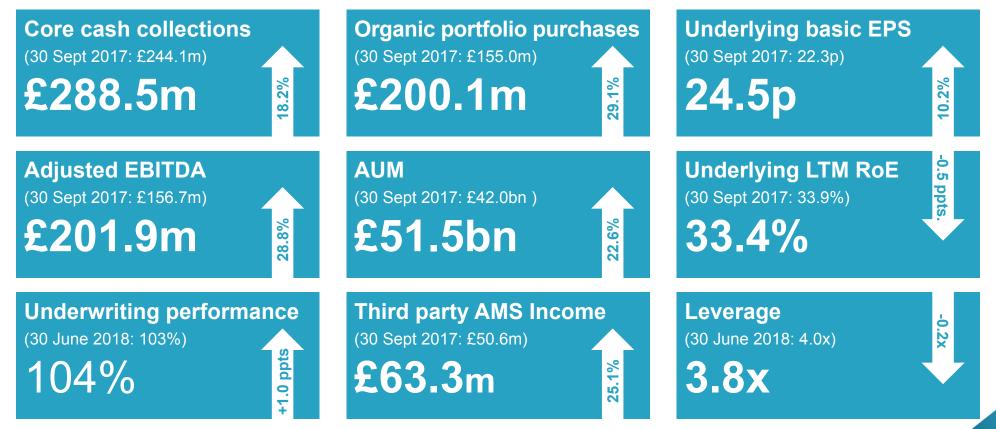
Confidentiality Notice: This presentation is confidential and contains proprietary information and intellectual property of Arrow Global Group PLC. None of the information contained herein may be reproduced or disclosed under any circumstances without the express written permission of Arrow Global Group PLC

## Agenda

- I. Q3 Highlights
- II. Q3 Financial Performance
- III. Outlook

# I. Q3 Highlights

#### Another set of strong Q3 results Underwriting performance and AUM growth supporting earnings momentum



123

#### Investment case

1	Sophisticated investment platform in a growth market
2	Increasing quality of earnings
3	Consistently strong returns for shareholders
4	Resilient balance sheet
5	Reliable through the cycle performance

Arrow's unique and differentiated model provides an attractive investment opportunity

# Strong Portfolio Acquisition and ERC Development



1. Purchased loan portfolios represents the purchase price of our purchased loan portfolios excluding related acquisition expenses

2. By purchase price

# II. Q3 Financial Performance

## Increase in Core Collections and Revenue



#### **Key Highlights**

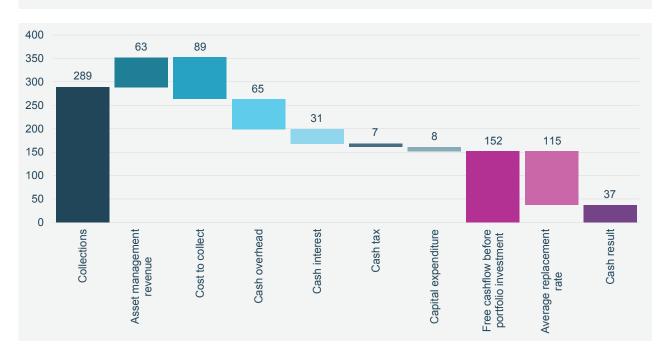
- Strong core collections performance
- Collections in Q3 2018 continue to out perform ERC forecast
- Strong income growth underpinned by enhanced asset management incomes – a continuing trend
- Capital light third-party asset management incomes grew by 25.1% to £63.3 million

## **Continued Underlying PAT Growth**



## Strong cash generation

#### Cash Result (£m)



## Long-Term Funding

#### Debt Maturity & 120-month ERC (£m)

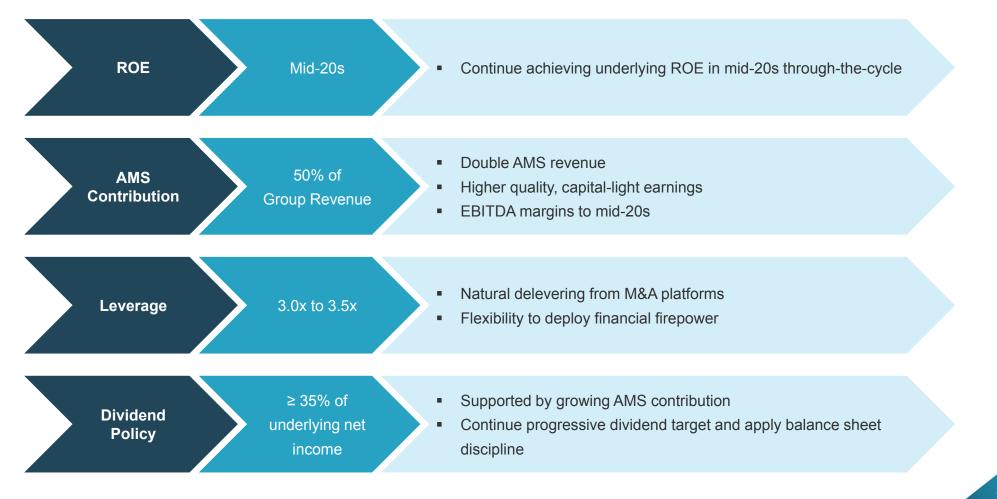


#### **Key Highlights**

- No debt maturities until 2023
- Significant ERC coverage of debt
   maturities
- Weighted average cost of debt 3.9%
- Weighted average debt duration 6.1 years
  - Compares favorably to shorter weighted average asset life
- Secured net debt to ebitda reduced to 3.8x from 4.0x (H1 2018)
- Strong cash interest cover at 6.6 times

# IV.Outlook

### 5-year targets



### Important notice

This presentation has been prepared by Arrow Global Group PLC (the "Company") solely for information purposes and does not constitute, and should not be construed as, an offer to sell or issue securities or otherwise constitute an invitation or inducement to any person to purchase, underwrite, subscribe to or otherwise acquire securities in the Company or any member of the Group.

The information contained in this document is confidential and is being made only to, and is only directed at, persons to whom such information may lawfully be communicated. This document may not be (in whole or in part) reproduced, distributed, stored, introduced into a retrieval system of any nature or disclosed in any way to any other person without the prior written consent of the Company.

The information contained in this document has not been verified or reviewed by the Company's auditors and, as such, is subject to all other publicly available information and amendments without notice (such amendments may be material).

The Company makes no representation or warranty of any sort as to the accuracy or completeness of the information contained in this document or in any meeting or presentation which accompanies it or in any other document or information made available in connection with this document and no person shall have any right of action against the Company or any other person in relation to the accuracy or completeness of any such information.

Each recipient acknowledges that neither it nor the Company intends that the Company act or be responsible as a fiduciary to such investor, its management, stockholders, creditors or any other person. By accepting and providing this document, each investor and the Company, respectively, expressly disclaims any fiduciary relationship and agrees that each investor is responsible for making its own independent judgments with respect to any transaction and any other matters regarding this document.

This document contains statements that constitute forward-looking statements relating to the business, financial performance and results of the Company and its subsidiaries (the "Group") and the industry in which the Group operates. These statements may be identified by words such as "expectation", "belief", "estimate", "plan", "target", or "forecast" and similar expressions or the negative thereof; or by forward-looking nature of discussions of strategy, plans or intentions; or by their context. All statements regarding the future are subject to inherent risks and uncertainties and various factors could cause actual future results, performance or events to differ materially from those described or implied in these statements. Such forward-looking statements are based on numerous assumptions regarding the Group's present and future business strategies and the environment in which the Group will operate in the future. Further, certain forward looking statements are based upon assumptions of future events which may not prove to be accurate and neither the Company nor any other person accepts any responsibility for the accuracy of the opinions expressed in this document or the underlying assumptions. The forward-looking statements in this document speak only as at the date of this presentation and the Company assumes no obligation to update or provide any additional information in relation to such forward-looking statements.

This document is not intended for distribution to, or use by any person or entity in any jurisdiction or country where such distribution or use would be contrary to local law or regulation or which would require any registration or licensing within such jurisdiction.