

Safe Harbor Statement

NOTE:

This presentation contains certain statements that are not historical facts and that constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Statements in this presentation addressing expectations, assumptions, beliefs, projections, estimates, future plans, strategies, and events, developments that we expect or anticipate will occur in the future, and future operating results or financial condition are forward-looking statements. Forward-looking statements in this presentation may include, but are not limited to, statements regarding future interest rates, our views on expected characteristics of future investment environments, prepayment rates on our investment portfolio and risks posed by our investment portfolio, our future investment strategies, our future leverage levels and financing strategies, the use of specific financing and hedging instruments and the future impacts of these strategies, future actions by the Federal Reserve, and the expected performance of our investments. The words "will," "believe," "expect," "forecast," "anticipate," "intend," "estimate," "assume," "project," "plan," "continue," and similar expressions also identify forward-looking statements. These forward-looking statements reflect our current beliefs, assumptions and expectations based on information currently available to us, and are applicable only as of the date of this presentation. Forward-looking statements are inherently subject to risks, uncertainties, and other factors, some of which cannot be predicted or quantified and any of which could cause the Company's actual results and timing of certain events to differ materially from those projected in or contemplated by these forward-looking statements. Not all of these risks, uncertainties and other factors are known to us. New risks and uncertainties are over time, and it is not possible to predict those risks or uncertainties or how they may affect us. The projections, assumptions, expectations or beliefs upon w

While it is not possible to identify all factors, some of the factors that may cause actual results to differ from historical results or from any results expressed or implied by our forward-looking statements, or that may cause our projections, assumptions, expectations or beliefs to change, include the risks and uncertainties referenced in our Annual Report on Form 10-K for the year ended December 31, 2016 and subsequent filings with the Securities and Exchange Commission, particularly those set forth under the caption "Risk Factors".

2Q17 Highlights

- Dividend of \$0.18 per common share for the quarter
- Comprehensive income of \$0.05 per common share and GAAP net loss of \$(0.20) per common share
- Core net operating income⁽¹⁾ of \$0.19 per common share for the quarter
 - CMBS prepayment income more than offset ARM premium amortization
 - Drop income on TBA securities of \$0.03 per common share
- Economic return on book value⁽²⁾ of 0.5% for the quarter and 7.8% year-to-date
- Book value per common share of \$7.38 at June 30, 2017 compared to \$7.52 at March 31, 2017 and \$7.18 at December 31, 2016

⁽²⁾ For second quarter, equals sum of dividend of \$0.18 per common share plus the decrease in book value of \$0.14 divided by beginning book value per share for the quarter of \$7.52. For year-to-date, equals sum of dividend of \$0.36 per common share plus the increase in book value of \$0.20 divided by beginning book value per share for the quarter of \$7.18.



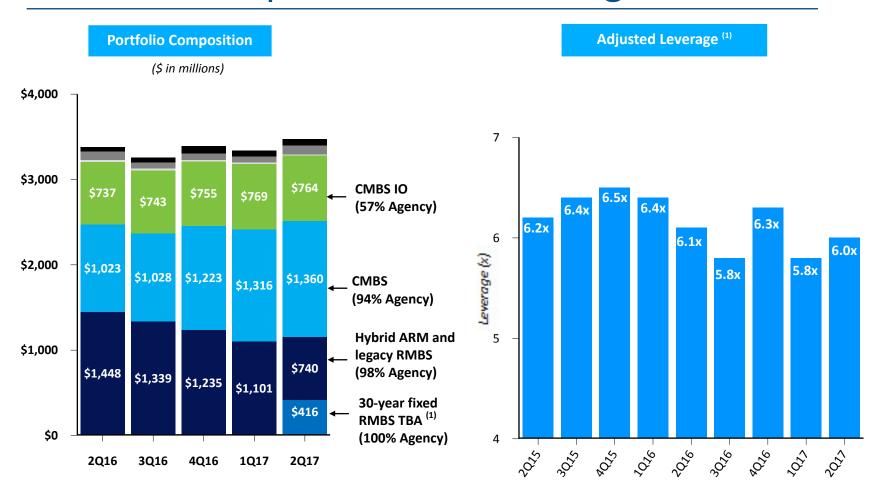
⁽¹⁾ Reconciliations for non-GAAP measures are presented in the Appendix.

2Q17 Highlights

- Expanded allocation to fixed-rate Agency securities by investing in 30-year fixed-rate
 Agency RMBS TBA securities with a cost basis of \$416.3 million at June 30, 2017
 - Combined with Agency CMBS (Fannie Mae DUS), the Company had \$1.7 billion in fixed-rate securities at June 30, 2017
 - Increased adjusted leverage⁽¹⁾ to 6.0x at June 30, 2017 versus 5.8x at March 31, 2017
 - Expect to continue increasing leverage and investing capital opportunistically for the balance of 2017
- Reallocated capital away from short-duration lower yielding investments given the flatter US Treasury curve and the prospect for faster prepayments. Sold \$271.4 million in short and current reset hybrid ARMs and had \$63.7 million in paydowns
 - Hybrid ARM balance has declined over \$462 million, or almost 40%, since
 December 31, 2016
- Increased interest rate swaps by a net \$990 million to substantially mitigate the risk to higher funding costs and short-term interest rates for the remainder of 2017, and adjusted the hedge position for the addition of 30-year TBA securities

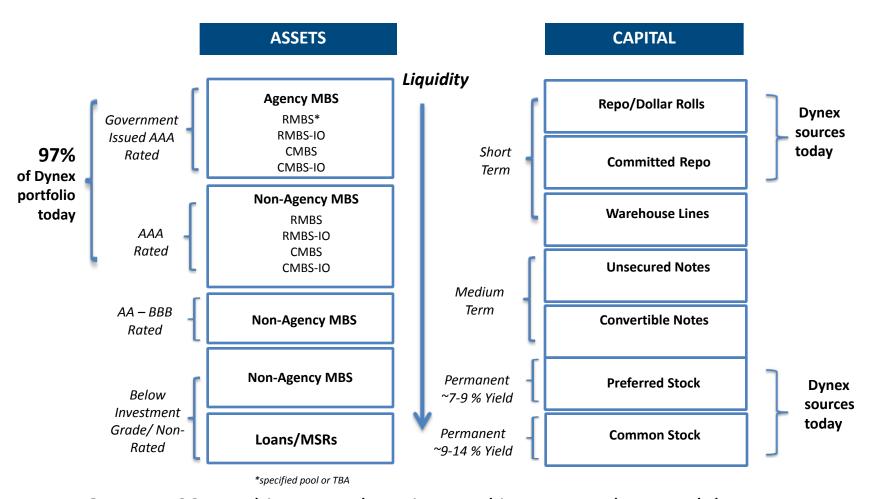


Portfolio Composition and Leverage (As of Quarter End)



⁽¹⁾ Leverage is calculated as the ratio of total liabilities to total shareholders' equity for all periods presented except for 2Q17 which also includes off-balance sheet financing for TBA securities with a cost basis (as if settled) of \$416.3 million

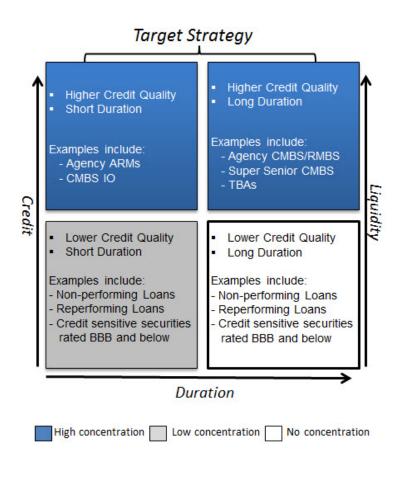
Emphasizing Higher Liquidity and Credit Quality



Over our 30 year history we have invested in every real estate debt asset class. Today we are emphasizing higher liquidity and higher credit quality.

Investment Strategy

Diversified investment approach that performs in a variety of market environments



- Dynamic and disciplined capital allocation model enables capturing long-term value
- Invest in a high quality, liquid asset portfolio of primarily Agency investments, as of June 30, 2017
 - 87% Agency guaranteed
 - 97% AAA rated
- Diversification is a key benefit
 - Balance between commercial and residential sectors provides diversified cash flow and prepayment profile
 - Agency CMBS protect the portfolio from extension risk. High quality CMBS IO add yield and are intended to limit credit exposure and prepayment volatility vs. lower rated tranches.
 - Agency fixed rate RMBS will allow us to grow our balance sheet opportunistically.
- Flexible portfolio duration position to reflect changing market conditions

Fixed Rate 30-Year Strategy

- This asset class offers the opportunity to earn an above average return over the long term versus other sectors today. This is unique for Dynex as over the last ten years we have always had more attractive alternatives in other sectors.
- The Federal Reserve balance sheet reduction has been well telegraphed and appears priced into the market today. Additional spread widening would present an opportunity to reallocate out of other sectors into Agency residential RMBS. We believe additional spread widening would be limited by demand for these high quality assets from crossover buyers.
- The macroeconomic environment continues to be supportive for spread products. Two major central banks (BoJ and ECB) continue to inject liquidity through large scale asset purchases supporting valuations across sectors. This is a key risk factor and we continue to be vigilant on this issue.
- Housing continues to be a major issue in the U.S. Housing finance reform debate is dominated by the need for private capital as the GSEs' footprint shrinks in this market. Potential change in government policy could present a major business opportunity for Dynex shareholders.
- The risk adjusted return and the liquidity of 30-year fixed-rate RMBS more than compensate
 for the relatively higher duration drift vs. less liquid ARMs. The incremental liquidity also gives
 us the ability to shrink or grow the balance sheet rapidly.

Macroeconomic Themes

Our core macroeconomic views center around the following themes:

- Global economic fundamentals have improved but still fragile
- U.S. fundamentals inflation declining; GDP increasing; employment improving
- Government policy monetary, regulatory, fiscal will continue to drive returns and is more uncertain today than at any point in the last decade
 - Composition and culture of the Federal Reserve could change over the next 2 years
 - Economic environment increases potential tightening/easing cycle by the Fed similar to 1994-1995
 - Fed intends to reduce MBS/Treasury portfolio
- High asset prices reflect global demand for yield and significant QE liquidity injections from central banks
- Global debt and US debt are at all time high levels, creating a fragile global economy vulnerable to exogenous events
- Globalization has created an irreversible connectedness between our economy and the rest of the world

Long-Term Positive Trends

Our business model is supported by positive long-term trends:

- U.S. demographic trends are driving a significant increase in household formation and therefore more demand in multifamily and single-family housing
- Global demographic aging trends are driving a demand for income/yield investments
- As government participation wanes there is a large need for private capital and expertise in the housing finance system
- The outlook for the regulatory environment is improving and could provide both investment and financing opportunities

Risk and Investment Posture

- Interest Rate Risk: We have structured the portfolio to be more interest rate neutral and we have now included hedges incorporating the risk profile of 30-year fixed rate RMBS. There are many global factors that will ultimately determine the level of interest rates. We expect to dynamically and opportunistically manage our profile including the addition of other instruments such as options and swaptions.
- **Spread Risk:** Spreads on all major fixed income asset classes are close to their tightest levels since 2014. Volatility in high quality asset spreads has been muted by central bank quantitative easing activities. The return offered by Agency 30-year fixed rate RMBS is greater than that offered by riskier assets. While the Fed's reinvestment policy could impact pricing in this sector, we have increased our allocation to this investment as we believe long term returns are compelling and accretive. Asset spreads could be vulnerable to widening due to changes in central bank involvement in these markets, which would present an opportunity to add assets.
- **Credit Risk:** We remain invested in the highest quality assets, which includes Agency and AAA rated securities. Credit spreads on lower rated tranches have tightened substantially and are vulnerable to economic weakness and sector related default risk. This risk is further exacerbated when these positions are funded with short term repo a risk we do not believe offers long term value at these levels.
- Liquidity and Leverage Risk: We are focused on high quality earning assets that are highly liquid, which gives us the flexibility to reallocate capital. We will also dynamically manage leverage and liquidity to opportunistically increase the size of our portfolio, which we expect to ultimately drive earnings.

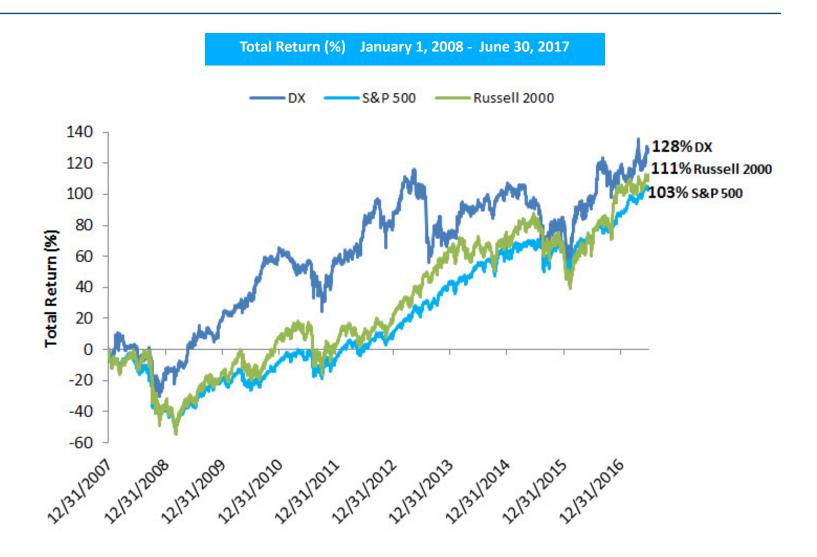
Strategic Focus

- Maintain investments in higher credit quality, more liquid assets with some portion providing extension and prepayment protection
- Capitalize on opportunities for investing capital from shifts in government and regulatory policy
- Positioned to reallocate/invest capital as market volatility creates attractive risk adjusted return opportunities
- Continue to seek ways to diversify funding sources as the regulatory environment becomes more favorable
- Continue commitment to disciplined risk management and capital allocation decisions that maximize flexibility given the current environment

Summary

- Year to date we have paid \$0.36 in dividends per common share and reported core net income of \$0.34 per common share.
- We continue to believe the diversified investment strategy will generate superior risk adjusted returns given the complementary cash flow and risk profiles of the commercial and residential sectors.
- There is a unique opportunity to generate returns in 30-year fixed rate RMBS. We are allocating capital out of ARMs and have doubled our position in the 30-year sector since June 30, 2017. We expect to continue to opportunistically invest in this sector, which will help drive earnings for the remainder of the year.
- The risk adjusted returns and the liquidity of 30-year fixed rate RMBS more than compensates for the relatively higher duration drift versus less liquid ARMs. The incremental liquidity also gives us the ability to shrink or grow the balance sheet rapidly.
- Global macro environment is still complex and asset prices are high and the potential for spread widening is elevated.
- We have an experienced management team, an internally managed structure that creates shareholder alignment, and a long-term history of disciplined capital allocation.

Long-Term Value is Driven by Above Average Dividends



Market Snapshot

	Common Stock	Preferre	ed Stocks
NYSE Ticker:	DX	DXPrA	DXPrB
Shares Outstanding: (as of 6/30/17)	49.23M	2.30M	3.05M
Q2 Dividends per share:	\$0.18	\$0.53125	\$0.4765625
Dividend Yield: (annualized, based on 7/24/17 stock price)	10.53%	8.32%	7.76%
Share Price: (at 7/24/17)	\$6.84	\$25.54	\$24.57
Market Capitalization: (based on 6/30/17 shares outstanding and 7/24/17 stock price)	\$336.76	\$58.74	\$74.91
Price to Book: (based on 6/30/17 book value and 7/24/17 stock price)	92.7%	-	- -



Credit Spreads (in bps)

Dynex Portfolio

Asset Class	6/30/17	3/31/17	12/31/16	9/30/16	06/30/16	12/31/15	06/30/15	12/31/14
Agency DUS	68	67	76	80	94	89	60	59
Freddie K AAA IO	145	150	200	230	255	225	150	155
AAA CMBS	88	93	91	100	104	138	92	88
AAA CMBS IO	110	145	195	215	240	240	175	165
Freddie K B	165	220	295	265	325	350	157	170
Fixed 30yr FN 3%	33	31	36	22	30	34	24	17
Fixed 30yr FN 4%	28	24	31	11	26	32	25	2
Freddie K C	275	350	435	490	540	480	228	250
IG Corporates	123	128	138	159	157	172	146	132
High Yield	441	456	476	558	628	746	521	562
AA CMBS	132	129	128	160	186	223	163	141
A CMBS	182	182	230	255	304	348	230	203
BBB CMBS	357	439	485	560	604	562	388	358
10y swap spreads	(2.4)	(0.4)	(13.0)	(14.0)	(10.6)	(8.5)	9.8	11.8
CRT.M3-2014	162	236	297	311	415	478	425	475
Agency ARM 5/1 (new issue)	21	24	19	32	38	22	16	21
Fixed 30yr FN 3.5%	35	30	33	21	31	34	28	5

Book Value Rollforward

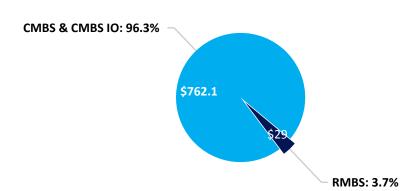
⁽¹⁾ Common shareholders' equity represents total shareholders' equity less the liquidation value of preferred stock outstanding as of the date indicated.

⁽²⁾ Reconciliations for non-GAAP measures are presented in the Appendix.

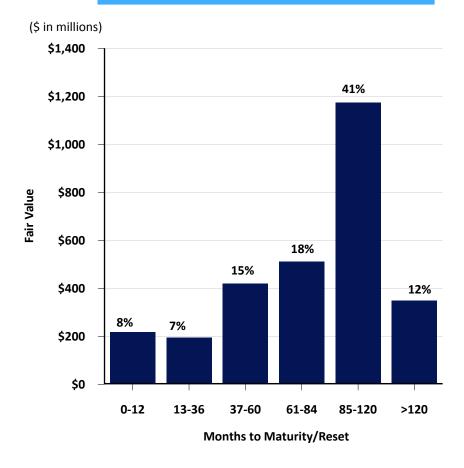
Portfolio Details* (as of June 30, 2017)

* MBS investments only, excludes loans held for investment.

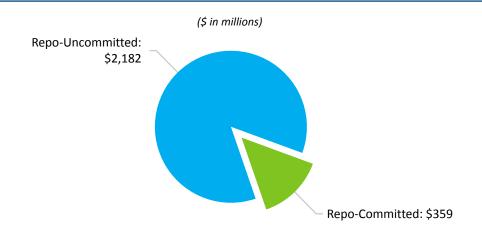
Net Premium by Asset Type (1) (\$ in millions)



Portfolio Expected Maturity/Reset Distribution



Funding Sources (as of June 30, 2017)



Active Counterparty by Region	#	% of all REPO
North America	9	70%
Asia	6	16%
Europe	3	14%
Total	18	100%

Active Counterparty by Type	#	% of all REPO
Broker/Dealers	4	19%
Domestic Banks	8	64%
Foreign Banks	6	17%
Total	18	100%

- We maintain a diversified funding platform with over 34 established counterparties, currently active with 18 counterparties
- Our funding is well diversified by counterparty and geography
- Repo markets remain highly liquid

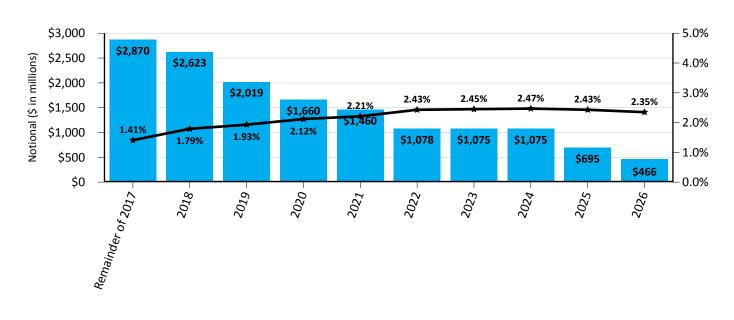
TBA Dollar Roll Funding Advantage

Q2 2017				
	TBA Dollar Roll ⁽¹⁾	Example: Specified Agency MBS Funded with Repo	Dollar Roll Fund Advantage	
Agency MBS yield / dollar roll net interest spread	3.05 %	3.05 %	- %	
Repurchase agreement cost	(0.90)%	(1.25)%	0.35%	
	2.15 %	1.80 %	0.35%	
Interest rate swap cost	(0.73)%	(0.73)%	- %	
Net interest spread	1.42 %	1.07 %	0.35%	

⁽¹⁾ Based on drop income of \$1,351 on average TBA securities balance on an if-settled basis of \$259,842.

Hedging Details

As of June 30, 2017



Interest Rate Swaps-Payers,
Net of Receivers

→ Total Weighted Average Pay Rate, Net

Risk Position

Treasury Yields ⁽¹⁾	As of June 30, 2017	As of March 31, 2017
2Y	1.38%	1.26%
5Y	1.89%	1.92%
10Y	2.31%	2.39%
30Y	2.84%	3.01%

Parallel Change in Treasury Yields	Percentage Change in Projected Market Value of Assets, Net of Hedges ⁽²⁾			
(bps)	As of June 30, 2017	As of March 31, 2017		
+100	(0.49)%	(0.34)%		
+50	(0.19)%	(0.14)%		
-50	0.06%	0.03%		

Curve Shift 2 year Treasury	Curve Shift 10 year Treasury	Percentage Change in Projected Market Value of Assets, Net of Hedges		
(bps)	(bps)	As of June 30, 2017	As of March 31, 2017	
0	-25	- %	(0.15)%	
-10	-50	- %	(0.26)%	
+25	+50	(0.14)%	0.07%	
+50	+100	(0.38)%	0.07%	
+25	+0	(0.06)%	(0.23)%	
+50	+25	(0.14)%	(0.28)%	

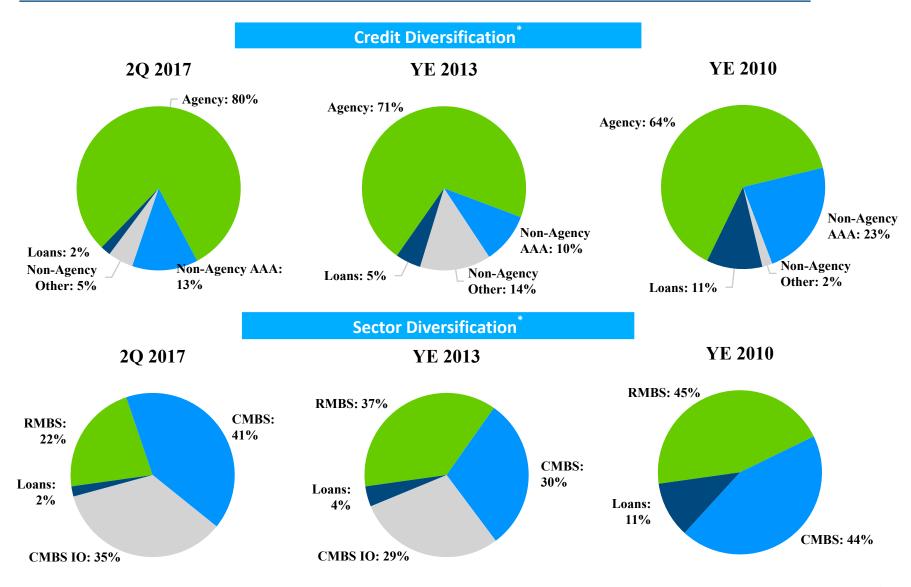
Parallel Change in Market Credit	Percentage Change in Projected Market Value of Asse			
Spreads	As of June 30, 2017	As of March 31, 2017		
+50	(1.99)%	(2.26)%		
+25	(1.00)%	(1.14)%		
-25	1.01%	1.15%		
-50	2.03%	2.32%		

⁽²⁾ Source: Company models based on modeled option adjusted duration. Includes changes in market value of our investments and derivative instruments, including TBA securities, but excludes changes in market value of our financings because they are not carried at fair value on our balance sheet. The projections for market value do not assume any change in credit spreads.



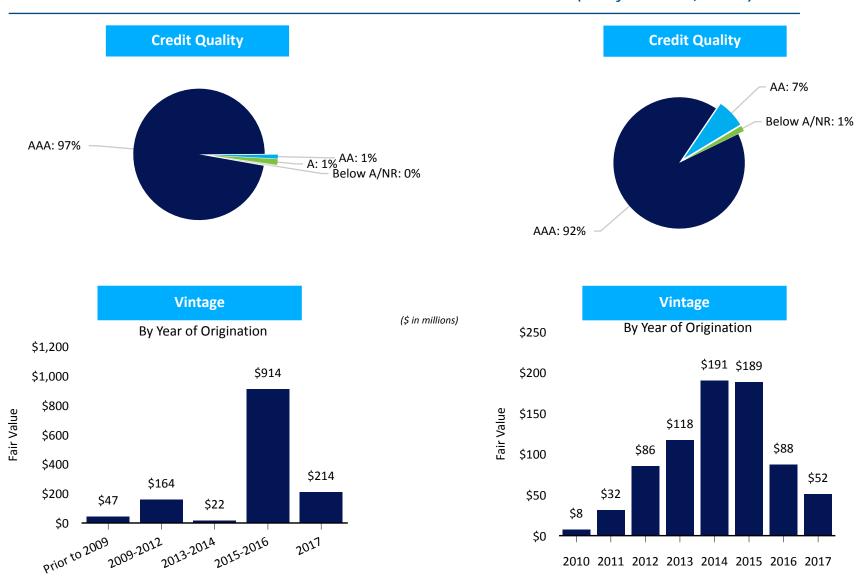
⁽¹⁾ Treasury yields source: Bloomberg

Disciplined Capital Allocation (% of investment capital)

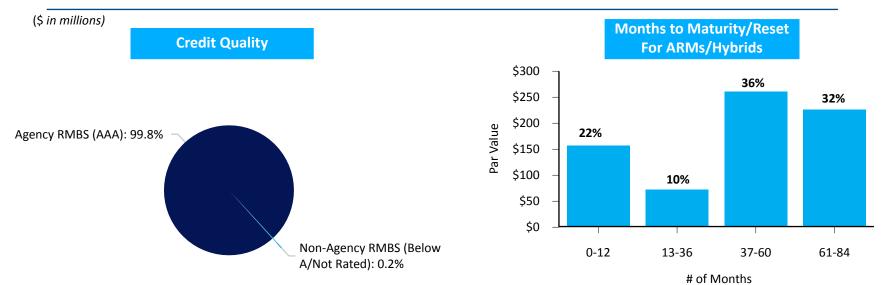


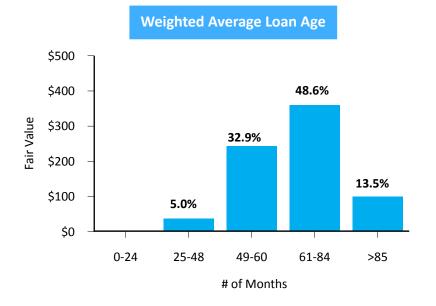
CMBS (as of June 30, 2017)

CMBS 10 (as of June 30, 2017)



RMBS (as of June 30, 2017)





Financial Performance - Comparative Quarters

	<u>2Q2017</u>		<u>1Q2</u> (017
(\$ in thousands, except per share amounts)	Income (Expense)	Per Common Share	Income (Expense)	Per Common Share
Interest income	\$24,856	\$0.51	\$22,419	0.45
Interest expense	8,714	0.18	7,519	0.15
GAAP net interest income	16,142	0.33	14,900	0.30
Add: drop income	1,351	0.03		
Plus: net periodic interest costs (1)	(1,352)	(0.03)	(615)	(0.01)
Less: accretion of de-designated hedges	(73)	_	(99)	_
Adjusted net interest income (2)	16,068	0.33	14,186	0.29
Other income, net	4	_	(46)	_
G & A expenses	(4,097)	(80.0)	(4,280)	(0.09)
Preferred stock dividends	(2,641)	(0.06)	(2,435)	(0.05)
Core net operating income to common shareholders (2)	9,334	0.19	7,425	0.15
Change in fair value of derivatives (1)	(15,801)	(0.32)	790	0.02
Realized loss on sale of investments, net	(3,709)	(0.07)	(1,708)	(0.04)
Accretion of de-designated hedges	73	_	99	_
Fair value adjustments, net	30	_	10	_
GAAP net (loss) income to common shareholders	(10,073)	(0.20)	6,616	0.13
Unrealized gain on MBS	12,448	0.25	20,076	0.41
Accretion of de-designated hedges	(73)	_	(99)	_
Total comprehensive income	\$2,302	\$0.05	\$26,593	\$0.54

⁽¹⁾ Net periodic interest costs and change in fair value of derivatives are components of "gain (loss) on derivative instruments, net" reported in the comprehensive income statement.

⁽²⁾ Reconciliations for non-GAAP measures are presented in the Appendix.

Dividend Character - YTD 06/30/2017 (Estimated)

(\$ in thousands)	
GAAP net loss to common shareholders	(\$3,458)
GAAP net income on taxable REIT subsidiary	17
GAAP net loss to common shareholders excluding taxable REIT subsidiary	(3,475)
Differences between GAAP net loss and taxable income:	
Change in fair value of derivative instruments	16,873
Loss on sale of investments	251
Tax amortization on terminated derivative instruments	(10,758)
Premium amortization	1,625
Other	(564)
Taxable income to common shareholders	3,952
Add back: Capital losses	1,781
Taxable income - ordinary income	\$5,733
Common dividends paid deduction	(\$19,093)
Common dividend representing return of capital	(\$13,360)
% of common dividend representing non-taxable return of capital	70.0%

Reconciliation of GAAP Measures to Non-GAAP Measures

(\$ in thousands except per share data)

	Quarter Ended				
	6/30/17	3/31/17	12/31/16	9/30/16	06/30/16
GAAP net (loss) income to common shareholders	(\$10,073)	\$6,616	\$66,758	\$12,406	(\$5,525)
Adjustments:					
Accretion of de-designated cash flow hedges (1)	(73)	(99)	(99)	(99)	(80)
Change in fair value of derivatives instruments, net (2)	15,801	(790)	(56,686)	(2,564)	15,811
Loss on sale of investments, net	3,709	1,708	_	_	297
Fair value adjustments, net	(30)	(10)	(17)	(34)	(28)
Core net operating income to common shareholders	\$9,334	\$7,425	\$9,956	\$9,709	\$10,475
Core net operating income per common share	\$0.19	\$0.15	\$0.20	\$0.20	\$0.21

	Quarter Ended				
	6/30/17	3/31/17	12/31/16	9/30/16	06/30/16
GAAP net interest income	\$16,142	\$14,900	\$16,105	\$15,067	\$16,716
Add: TBA drop income	1,351	_	_	_	_
Add: net periodic interest costs (3)	(1,352)	(615)	(140)	(155)	(486)
Less: de-designated hedge accretion (1)	(73)	(99)	(99)	(99)	(80)
Non-GAAP adjusted net interest income	\$16,068	\$14,186	\$15,866	\$14,813	\$16,150
GAAP interest expense	\$8,714	\$7,519	\$6,753	\$6,068	\$6,100
Add: net periodic interest costs (3)	1,352	615	140	155	486
Less: de-designated hedge accretion (1)	73	99	99	99	80
Non-GAAP adjusted interest expense	\$10,139	\$8,233	\$6,992	\$6,322	\$6,666

⁽¹⁾ Amount recorded as a portion of "interest expense" in accordance with GAAP related to the accretion of the balance remaining in accumulated other comprehensive income as a result of the Company's discontinuation of hedge accounting effective June 30, 2013.

⁽²⁾ Amount represents net realized and unrealized gains and losses on derivatives and excludes net periodic interest costs related to these instruments.

⁽³⁾ Amount represents net periodic interest costs on effective interest rate swaps outstanding during the period and exclude termination costs and changes in fair value.

MREIT Glossary of Terms

<u>Commercial Mortgage-Backed Securities (CMBS)</u> are a type of mortgage-backed security that is secured by the loan on a commercial property.

Credit Risk is the risk of loss of principal stemming from a borrower's failure to repay a loan.

Curve Twist Terms:

- **Bull Flattener:** If the yield curve is exhibiting bull flattener behavior, the spread between the long-term rate and the short-term rate is getting smaller because long-term rates are decreasing as short-term rates are increasing. This could occur as more investors choose long-term bonds relative to short-term bonds, which drives long-term bond prices up and reduces yields.
- **Bear Flattener:** A yield-rate environment in which short-term interest rates are increasing at a faster rate than long-term interest rates. This causes the yield curve to flatten as short-term and long-term rates start to converge.
- **Bear Steepener:** Widening of the yield curve caused by long-term rates increasing at a faster rate than short-term rates. This causes a larger spread between the two rates as the long-term rate moves further away from the short-term rate.
- **Bull Steepener:** A change in the yield curve caused by short-term rates falling faster than long-term rates, resulting in a higher spread between the two rates.

<u>Duration</u> is a measure of the sensitivity of the price of a fixed-income investment to a change in interest rates. Duration is expressed as a number of years.

<u>Interest Only Securities (IOs)</u> are the interest only strips of mortgage, Treasury, or bond payments, which are separated and sold individually from the principal portions.

MREIT Glossary of Terms

<u>Interest Rate Risk</u> is the risk that an investment's value will change due to a change in the absolute level of interest rates, in the spread between two rates, in the shape of the yield curve or in any other interest rate relationship.

Leverage is the use of borrowed money to finance assets.

Prepayment Risk is the risk associated with the early unscheduled return of principal.

<u>Repurchase Agreements</u> are a short-term borrowing that uses loans or securities as collateral. The lender advances only a percentage of the value of the asset (the advance rate). The inverse of the advance rate is the equity contribution of the borrower (the haircut).

Residential Mortgage-Backed Securities (RMBS) are a type of mortgage-backed debt obligation whose cash flows come from residential debt, such as mortgages, home-equity loans and subprime mortgages.

<u>Spread Risk</u> is the uncertainty in pricing resulting from the expansion and contraction of the risk premium over the benchmark or the risk of how the spread of a security will react over the benchmarked security. treasury curve.

TBA Securities are forward contracts for the purchase or sale of 15-year and 30-year generic Agency RMBS.

