

PennyMac Mortgage Investment Trust



Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, regarding management's beliefs, estimates, projections and assumptions with respect to, among other things, the Company's financial results, future operations, business plans and investment strategies, as well as industry and market conditions, all of which are subject to change. Words like "believe," "expect," "anticipate," "promise," "project," "plan," and other expressions or words of similar meanings, as well as future or conditional verbs such as "will," "would," "should," "could," or "may" are generally intended to identify forward-looking statements. Actual results and operations for any future period may vary materially from those projected herein, from past results discussed herein, or illustrative examples provided herein. These forward-looking statements include, but are not limited to, statements regarding the future impact of COVID-19 on our business, financial operations and our GSE credit risk transfer (CRT) investments, future loan delinquencies and forbearances, future investment returns, projected servicing advances requirements and other business and financial expectations.

Factors which could cause actual results to differ materially from historical results or those anticipated include, but are not limited to: our exposure to risks of loss and disruptions in operations resulting from adverse weather conditions, civil unrest, man-made or natural disasters, climate change and pandemics such as COVID-19; the impact to our CRT agreements of increased borrower requests for forbearance under the CARES Act; changes in our investment objectives or investment or operational strategies, including any new lines of business or new products and services that may subject us to additional risks; volatility in our industry, the debt or equity markets, the general economy or the real estate finance and real estate markets specifically, whether the result of market events or otherwise; events or circumstances which undermine confidence in the financial markets or otherwise have a broad impact on financial markets, such as the sudden instability or collapse of large depository institutions or other significant corporations, terrorist attacks, natural or man-made disasters, or threatened or actual armed conflicts; changes in general business, economic, market, employment and political conditions, or in consumer confidence and spending habits from those expected; declines in real estate or significant changes in U.S. housing prices or activity in the U.S. housing market; the availability of, and level of competition for, attractive risk-adjusted investment opportunities in mortgage loans and mortgage-related assets that satisfy our investment objectives; the inherent difficulty in winning bids to acquire mortgage loans, and our success in doing so; the concentration of credit risks to which we are exposed; the degree and nature of our competition; our dependence on our manager and servicer, potential conflicts of interest with such entities and their affiliates, and the performance of such entities; changes in personnel and lack of availability of qualified personnel at our manager, servicer or their affiliates; the availability, terms and deployment of short-term and long-term capital; the adequacy of our cash reserves and working capital; our ability to maintain the desired relationship between our financing and the interest rates and maturities of our assets; the timing and amount of cash flows, if any, from our investments; unanticipated increases or volatility in financing and other costs, including a rise in interest rates; the performance, financial condition and liquidity of borrowers; the ability of our servicer, which also provides us with fulfillment services, to approve and monitor correspondent sellers and underwrite loans to investor standards; incomplete or inaccurate information or documentation provided by customers or counterparties, or adverse changes in the financial condition of our customers and counterparties; our indemnification and repurchase obligations in connection with mortgage loans we purchase and later sell or securitize; the quality and enforceability of the collateral documentation evidencing our ownership and rights in the assets in which we invest; increased rates of delinquency, default and/or decreased recovery rates on our investments; our ability to foreclose on our investments in a timely manner or at all; increased prepayments of the mortgages and other loans underlying our mortgage-backed securities or relating to our mortgage servicing rights, excess servicing spread and other investments; the degree to which our hedging strategies may or may not protect us from interest rate volatility; the effect of the accuracy of or changes in the estimates we make about uncertainties, contingencies and asset and liability valuations when measuring and reporting upon our financial condition and results of income; our failure to maintain appropriate internal controls over financial reporting; technologies for loans and our ability to mitigate security risks and cyber intrusions; our ability to obtain and/or maintain licenses and other approvals in those jurisdictions where required to conduct our business; our ability to detect misconduct and fraud; our ability to comply with various federal, state and local laws and regulations that govern our business; developments in the secondary markets for our mortgage loan products; legislative and regulatory changes that impact the mortgage loan industry or housing market; changes in regulations or the occurrence of other events that impact the business, operations or prospects of government agencies or government-sponsored entities, or such changes that increase the cost of doing business with such entities; the Dodd-Frank Wall Street Reform and Consumer Protection Act and its implementing regulations and regulatory agencies, and any other legislative and regulatory changes that impact the business, operations or governance of mortgage lenders and/or publicly-traded companies; the Consumer Financial Protection Bureau and its issued and future rules and the enforcement thereof; changes in government support of homeownership; changes in government or government-sponsored home affordability programs; limitations imposed on our business and our ability to satisfy complex rules for us to qualify as a real estate investment trust (REIT) for U.S. federal income tax purposes and qualify for an exclusion from the Investment Company Act of 1940 and the ability of certain of our subsidiaries to qualify as REITs or as taxable REIT subsidiaries for U.S. federal income tax purposes, as applicable, and our ability and the ability of our subsidiaries to operate effectively within the limitations imposed by these rules; changes in governmental regulations, accounting treatment, tax rates and similar matters (including changes to laws governing the taxation of REITs, or the exclusions from registration as an investment company); the effect of public opinion on our reputation and our organizational structure and certain requirements in our charter documents.

You should not place undue reliance on any forward-looking statement and should consider all of the uncertainties and risks described above, as well as those more fully discussed in reports and other documents filed by the Company with the Securities and Exchange Commission from time to time. The Company undertakes no obligation to publicly update or revise any forward-looking statements or any other information contained herein, and the statements made in this presentation are current as of the date of this presentation only.

Second Quarter Highlights

- Net income attributable to common shareholders of \$458.4 million; diluted earnings per common share of \$4.51
 - Driven by record Correspondent Production segment results and partial recovery in the fair value of government-sponsored enterprise (GSE) credit risk transfer (CRT) investments from depressed levels at March 31, 2020 as a result of market dislocations related to COVID-19
 - Partially offset by fair value losses on mortgage servicing rights (MSRs) as a result of higher than anticipated prepayments during the quarter and expectations for higher prepayments in the future driven by lower rates, and losses on interest rate hedges driven by elevated hedge costs and fair value losses on options used to hedge MSRs as volatility decreased by June 30, 2020
 - Segment pretax results: Credit Sensitive Strategies: \$458.8 million; Interest Rate Sensitive Strategies: \$(117.5) million; Correspondent Production: \$139.6 million; Corporate: \$(12.8) million
 - Dividend of \$0.40 per common share declared on June 19, 2020 and paid on July 30, 2020
 - Book value per common share increased to \$19.39 from \$15.16 at March 31, 2020
- Investment activity driven by elevated correspondent production volumes
 - Conventional correspondent loan production totaled \$18.9 billion in unpaid principal balance (UPB), up 17% from the prior quarter and 76% from 2Q19
 - Added \$203 million in new MSRs
 - CRT deliveries totaled \$1.8 billion in UPB resulting in a firm commitment to purchase \$48 million of new CRT securities
- Repurchased approximately 566,000 common shares of PMT at a weighted average price of \$13.36, or a total cost of \$7.6 million

Economic Developments Affecting Our Business

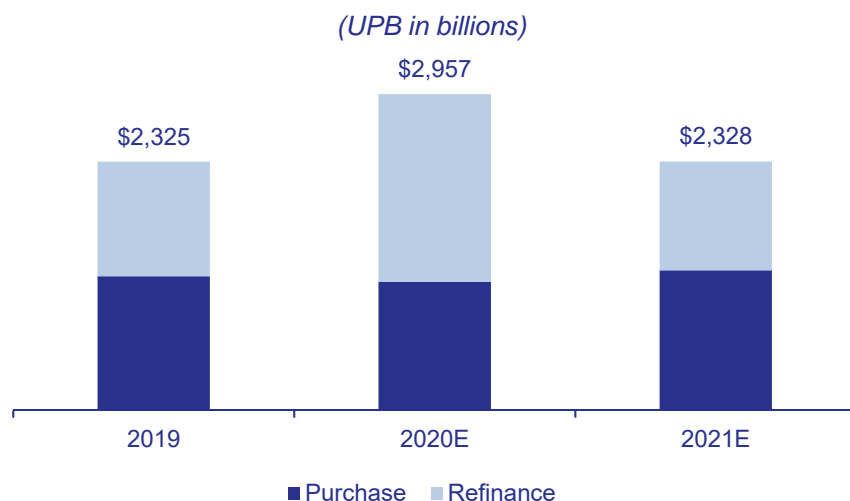
- Challenges in the U.S. economy reflect the impact of COVID-19 as a recent resurgence of the virus weighs on states' plans to re-open
 - Re-opening plans, including a return to physical work locations, are now on pause in over 80% of the country and recovery is expected to be more gradual than previously forecasted
 - The unemployment rate reached a recent high of 14.7% at April 30th(¹), while leading economists are forecasting a gradual recovery to 6.9% by the end of 2021(²)
 - New requests for mortgage forbearance have decreased substantially since March and April and borrowers are beginning to exit forbearance plans as they continue or resume making payments or obtain assistance through government supported loan modification programs
 - Despite relatively tight levels of supply, economists are forecasting home price decreases in metropolitan areas with heavily affected economies
- Fiscal stimulus benefits from the federal government have begun to roll off, with an extension or further stimulus remaining uncertain
 - Congress has yet to resolve differences on several issues including the jobless benefit, liability protections for business, aid to state and local governments and direct payments to Americans
- Liquidity in the financial markets has largely rebounded, however markets continue to reflect uncertainty
 - Significant recovery in the value of credit-related assets and in particular, government-sponsored enterprise (GSE) credit risk transfer (CRT) investments driven by improved liquidity and a reduction in discount rates

(1) Bureau of Labor Statistics

(2) Average of estimates from Bank of America (7/10/20), Barclays (7/2/20), Goldman Sachs (7/4/20), Wells Fargo (7/9/20)

Opportunity in the Mortgage Origination Market

U.S. Mortgage Origination Market⁽¹⁾



Average 30-year fixed rate mortgage⁽²⁾



- Economic forecasts for total originations in 2020 have increased to nearly \$3 trillion, the highest level since 2003 supported by:
 - All-time low rates driving robust refinance and purchase mortgage demand
 - Recent increase in purchase origination forecasts include higher demand in suburban areas
 - Sales of previously owned homes, which posted their largest ever monthly increase in June and sales of new homes, which have been above consensus expectations
- \$2.3 trillion origination market expected in 2021, similar to 2019
- Margins remain elevated in direct lending channels driven by industry capacity constraints; correspondent margins have decreased from record levels in early 2Q20
- While PennyMac was one of the few lenders who continued to acquire, fund and settle loans throughout March and April, other market participants have returned
- PennyMac has been able to capitalize on the market opportunity as a result of its capital structure, risk management disciplines, and significant technology and infrastructure investments made by PFSI in recent years

⁽¹⁾ Actual originations: Inside Mortgage Finance. Total originations forecast: Average of Mortgage Bankers Association (7/15/20), Fannie Mae (7/10/20), and Freddie Mac (6/16/20) forecasts.

⁽²⁾ Freddie Mac Primary Mortgage Market Survey. 2.99% as of 7/30/20

PMT's Investment Activity by Strategy During the Quarter

(\$ in millions)

	Long-term mortgage asset	Asset carrying value at 3/31/20	Net new investments ⁽⁵⁾	Fair value changes ⁽⁶⁾	Asset carrying value at 6/30/20
Credit Sensitive Strategies	Credit Risk Transfer ⁽¹⁾	\$ 3,128	\$ (451)	\$ 453	\$ 3,130
	Distressed Loans & REO ⁽²⁾	\$ 60	\$ (8)	\$ (0)	\$ 52
Interest Rate Sensitive Strategies	MSR & ESS ⁽³⁾	\$ 1,314	\$ 139	\$ (112)	\$ 1,341
	Agency MBS ⁽⁴⁾	\$ 3,947	\$ (1,340)	\$ 5	\$ 2,613
Total		\$ 8,449	\$ (1,660)	\$ 346	\$ 7,135

- Currently, PMT's capital deployment is focused on correspondent production and the related MSRs
- CRT assets increased due to fair value increases of \$453 million, and decreased from substantial runoff on CRT investments due to prepayment activity
 - Significant reduction of the unfunded commitment related to CRT-6
- Sale of Agency MBS reflects rebalancing of the hedge in favor of MBS forwards; not a significant change in invested equity
- Overall, net change in PMT's invested equity was a decrease of \$60 million in 2Q20⁽⁷⁾

⁽¹⁾ The fair value of CRT investments is reflected on PMT's balance sheet as deposits securing CRT arrangements, firm commitment to purchase CRT securities, and derivative and credit risk transfer strip assets or liabilities, net of the interest-only security payable. Presented here on a pro forma basis that also includes the face amount of firm commitment to purchase CRT securities.

⁽²⁾ REO = Real estate acquired in settlement of loans. Net new investments reflect sales in performing and non-performing loans as a part of PMT's strategy to exit the investments. Includes \$43.6 million in carrying value of REO at 6/30/20.

⁽³⁾ ESS = Excess servicing spread

⁽⁴⁾ MBS = Mortgage-backed securities. Net new investments represents rebalancing of the MBS portfolio (considered along with TBA hedges in managing PMT's interest rate risk) and runoff.

⁽⁵⁾ Net new investments represents new investments net of sales, liquidations, and runoff

⁽⁶⁾ Changes in fair value of CRT investments included the accrual of carry on firm commitments reflected in income as well as changes in fair value upon settlement of a CRT transaction

⁽⁷⁾ Calculation is based on change in net new investments in funded assets and estimated funding haircuts

Run-Rate Return Potential from PMT's Investment Strategies

(\$ in millions, except EPS)

	Annualized Return on Equity (ROE)	WA Equity Allocated (%) ⁽¹⁾
Credit sensitive strategies:		
GSE credit risk transfer ⁽²⁾	17.0%	36%
Other credit sensitive strategies	-17.4%	1%
Net credit sensitive strategies	16.1%	37%
Interest rate sensitive strategies:		
MSRs (incl. recapture)	11.5%	21%
ESS (incl. recapture)	8.8%	3%
Agency MBS	23.6%	9%
Non-Agency senior MBS (incl. jumbo)	20.9%	0%
Interest rate hedges ⁽³⁾	-3.4%	
Net interest rate sensitive strategies	11.1%	33%
Correspondent production	38.3%	14%
Cash, short term investments, and other	-0.1%	17%
Management fees & corporate expenses	-2.6%	
Net Corporate⁽⁴⁾	-2.6%	17%
Provision for income tax expense	0.0%	
Net income	12.2%	100%
Dividends on preferred stock	8.3%	13%
Net income attributable to common shareholders	12.8%	87%
Average Diluted EPS per Quarter	\$ 0.65	

- Represents the average annualized return and quarterly earnings potential PMT expects from its strategies over the next four quarters
- CRT return potential has decreased from previous estimates due to the increase in fair value in 2Q20, which decreased go-forward expected rates of return
 - CRT markets continue to reflect uncertainty related to COVID-19 and its associated losses
- Higher return potential from the interest rate sensitive strategies as expected returns on MSRs increased driven by a reduction in the expected impact on servicing from COVID-19
- Lower returns from correspondent production as conventional margins have returned to normalized levels faster than originally anticipated

⁽¹⁾ Equity allocated represents management's internal allocation. Certain financing balances and associated interest expenses are allocated between investments based on management's assessment of target leverage ratios and required capital or liquidity to support the investment.

⁽²⁾ Projected CRT return includes fair value recognition upon loan delivery under CRT transactions

⁽³⁾ ROE calculated as a percentage of segment equity

⁽⁴⁾ ROE calculated as a percentage of total equity

Note: This slide presents estimates for illustrative purposes only, using PMT's base case assumptions (e.g., for credit performance, prepayment speeds, financing economics, and loss treatment for PMTT1, PMTT2 and PMTT3 as described on slide 21), and does not contemplate significant changes or shocks to current market conditions. Actual results may differ materially.

Mortgage Investment Activities

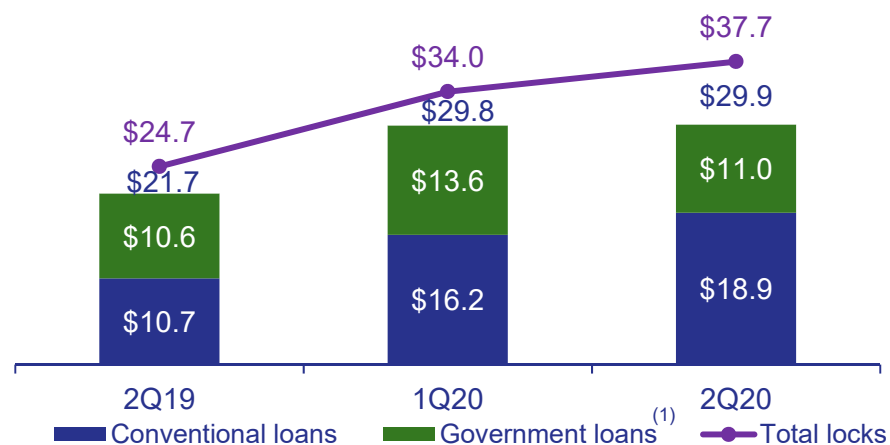


Correspondent Production Highlights

- Correspondent acquisitions in 2Q20 totaled \$29.9 billion in UPB, up slightly from the prior quarter and 40% Y/Y
 - 63% conventional loans; 37% government loans
 - Conventional conforming acquisitions of \$18.9 billion in UPB, up 17% Q/Q and 76% Y/Y
 - Government acquisitions of \$11.0 billion in UPB, down 19% Q/Q and up 4% Y/Y⁽¹⁾
- Conventional lock volume was a record \$24.8 billion in UPB, up 30% Q/Q and 96% Y/Y⁽²⁾
- New correspondent lending portal, P3, leverages proprietary systems and Ellie Mae's next generation Encompass Digital Lending Platform
 - Seamless integration with proprietary loan bidding system; capabilities to instantly price loans for unique characteristics and required returns
- Higher-margin, best efforts commitments increased to 38% of lock volume in 2Q20 from 23% in 1Q20
 - Enabled by strong capital position and expertise to efficiently hedge production pipelines across different market environments
- July correspondent acquisitions totaled \$12.7 billion in UPB; locks were a record \$16.0 billion in UPB

Correspondent Production Volume and Mix

(UPB in billions)



Key Financial Metrics		
	1Q20	2Q20
Pretax income as a percentage of interest rate lock commitments ⁽²⁾	0.36%	0.74%
Fulfillment fee ⁽³⁾	0.26%	0.28%

Selected Operational Metrics		
	1Q20	2Q20
Correspondent seller relationships	690	691
Purchase money loans, as a % of total acquisitions	58%	40%

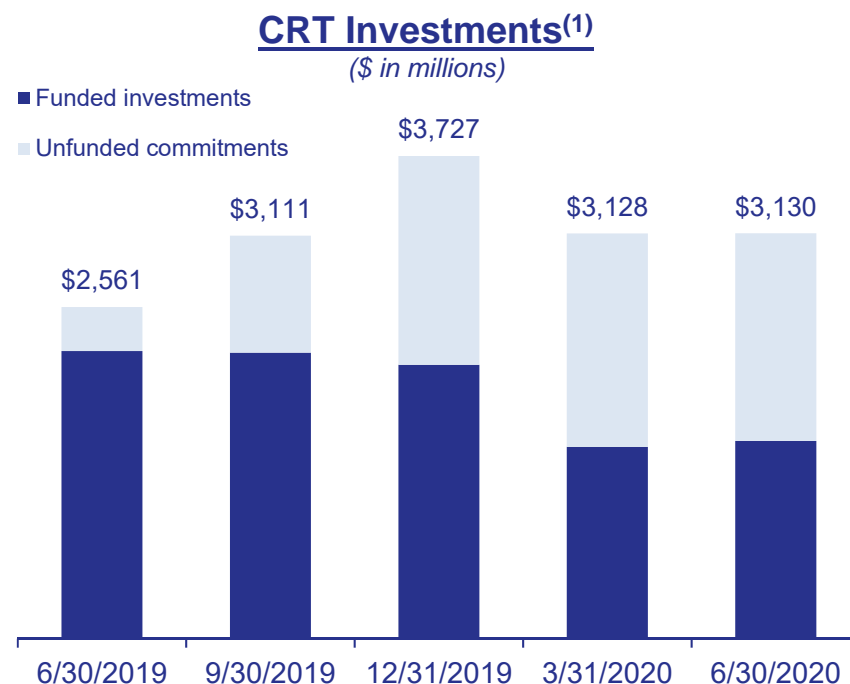
⁽¹⁾ For government loans, PMT earns a sourcing fee and interest income for its holding period and does not pay a fulfillment fee

⁽²⁾ Conventional conforming and non-Agency interest rate lock commitments

⁽³⁾ Based on funded loans subject to fulfillment fees

Trends in PMT's Investments in GSE Credit Risk Transfer (CRT)

- In alignment with the wind down of new investments in CRT, delivered \$1.8 billion in UPB of loans in 2Q20 under our sixth transaction with Fannie Mae
- CRT investments were essentially unchanged Q/Q as new investments and fair value gains were offset by high prepayments and a corresponding reduction in the expected face amount of firm commitment to purchase CRT securities
- Sharp increase in delinquency rate as a result of hardships related to COVID-19; expected increase in realized losses has yet to materialize



Selected metrics for quarter ended⁽²⁾:

	6/30/2019	9/30/2019	12/31/2019	3/31/2020	6/30/2020
Underlying UPB of loans (\$ in billions)	\$59.6	\$69.1	\$80.7	\$89.6	\$80.5
WA FICO	747	748	751	752	752
WA LTV	83.2%	83.4%	83.1%	82.9%	82.8%
60+ Days Delinquent as a % of outstanding UPB	0.267%	0.305%	0.350%	0.329%	7.299%
Realized losses (\$ in millions)	\$0.9	\$1.7	\$1.7	\$1.5	\$2.7
Cumulative lifetime losses (\$ in millions)	\$5.4	\$7.1	\$8.8	\$10.3	\$13.0

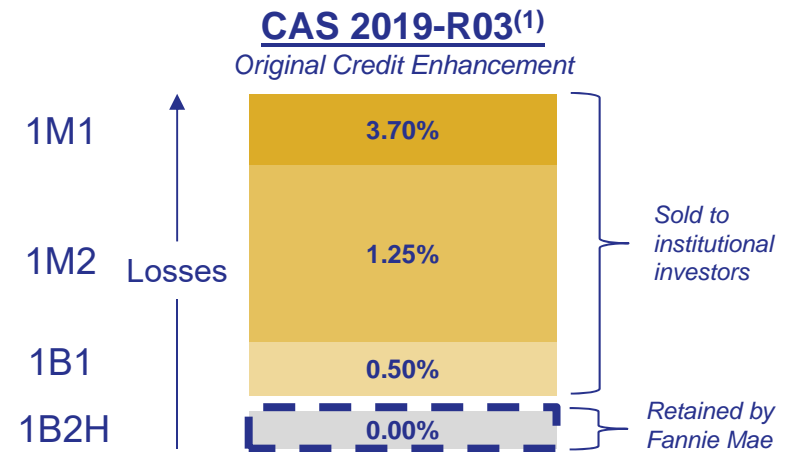
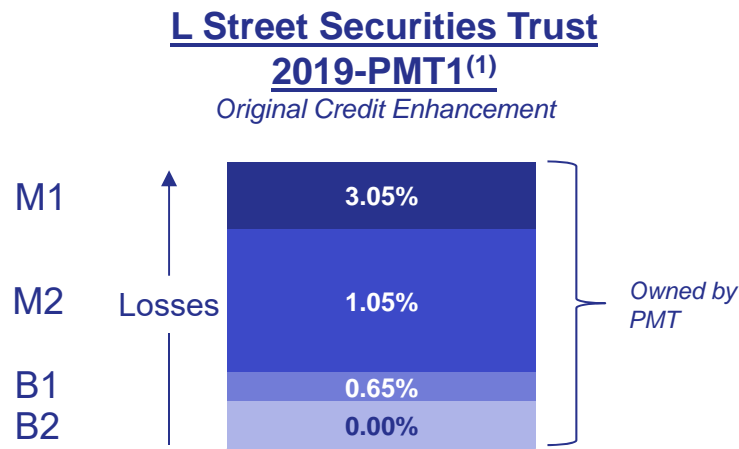
Note: See slides 6, 11-12, 16-17, 19, and 25-29 for financial performance and additional details regarding CRT investments

⁽¹⁾ The fair value of CRT investments is reflected on PMT's balance sheet as deposits securing CRT arrangements, firm commitments to purchase CRT securities and derivative and credit risk transfer strip assets or liabilities, net of the interest-only security payable. Presented here on a pro forma basis that also includes the face amount of firm commitment to purchase CRT securities for each period shown.

⁽²⁾ FICO and LTV metrics at origination for the population of loans remaining as of the date presented

Gains on PMT's CRT Investments Versus CAS/STACR

- PMT's CRT investments recorded \$453 million in fair value gains in 2Q20 representing a significant recovery of the fair value loss in 1Q20, but gains were lower relative to the more liquid tranches of comparable Connecticut Avenue Securities (CAS) and Structured Agency Credit Risk (STACR) securities
- Although PMT's GSE CRT investments are similar to CAS/STACR, the investments have structural differences that yield different returns



- PMT owns the entirety of the loss position up to 4.00%, including the true first loss position (0.00% - 0.65%)
 - First tranche to absorb losses and most price sensitive in an adverse economic environment
 - Differs in credit enhancement from similar CAS/STACR securities
- Traded CRT securities do not include the first loss position (0.00% - 0.50%)
- Fannie Mae and Freddie Mac retain the first loss tranches of their securities and these tranches do not trade

Note: Transactions shown above are shown for illustrative purposes only; CAS 2019-R03 is not owned by PMT

⁽¹⁾ Bloomberg

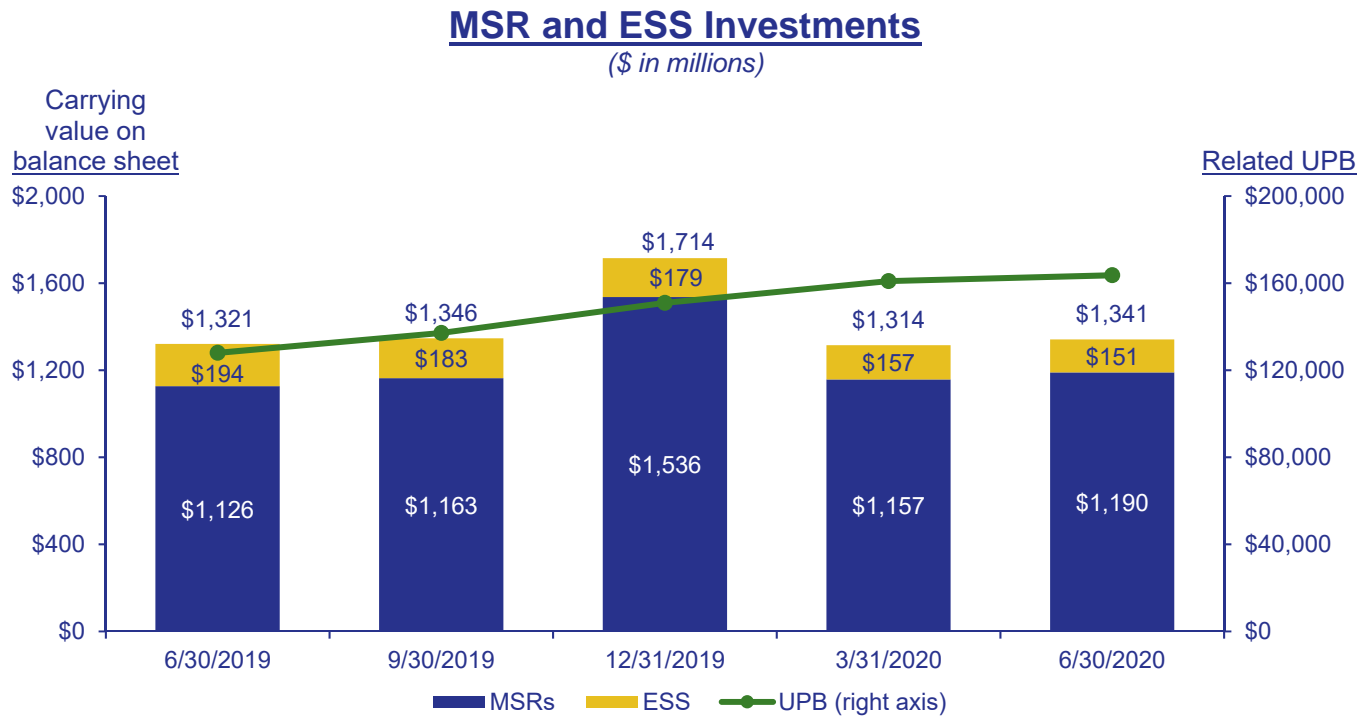
Prepayments Allow PMT to Recoup CRT Fair Value Losses

- PMT avoids actual losses and expects to recognize fair value gains on its CRT investments when the underlying loans pay off, since principal is received (or for CRT-6, the commitment amount is reduced) at par
- Reporting conventions create a two-month lag in reporting of prepayments on CRT investments; the high level of prepayments in May and June will be reflected in the valuation at September 30, 2020

As of June 30, 2020 (\$ in millions)	PMTT 1-3	L Street Securities 2017-PM1	L Street Securities Trust 2019-PMT1	CRT-6 ⁽¹⁾	Total
Face Amount	\$292	\$711	\$664	\$1,795	\$3,461
Fair Value	\$271	\$652	\$602	\$1,604	\$3,130
Discount to Face Amount	\$21	\$58	\$62	\$190	\$331

⁽¹⁾ PMT is currently in the aggregation period delivering loans to Fannie Mae under a commitment for a sixth CRT transaction – not yet funded. Fair value is presented here on a pro forma basis that also includes the face amount of firm commitment to purchase CRT securities.

Trends in MSR and ESS Investments



- Despite elevated prepayment activity during the quarter, MSR assets increased slightly to \$1.2 billion driven by investment growth from strong conventional production volumes
 - \$203 million in new MSR investments
 - UPB associated with MSR investments increased to \$145.3 billion from \$141.8 billion at March 31, 2020
- ESS investments relating to bulk, mini-bulk and flow MSR acquisitions by PFSI between 2013 and 2015 decreased to \$151.2 million, driven by repayments of the underlying loans
 - UPB associated with ESS investments decreased to \$18.2 billion from \$19.2 billion at March 31, 2020

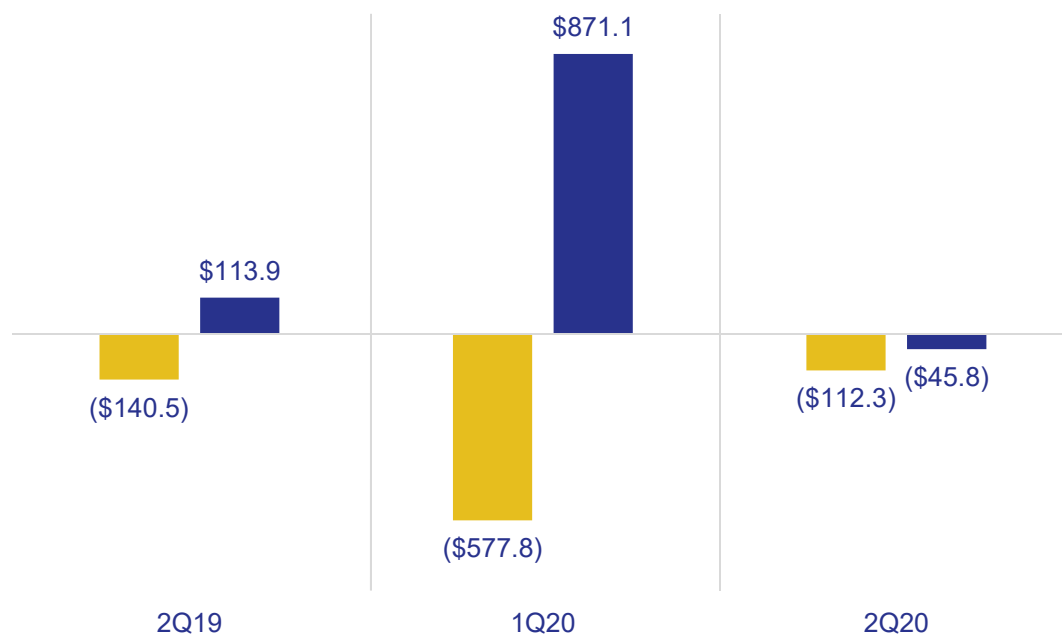
Hedging Approach Central to PMT's Interest Rate Sensitive Investments

MSR and ESS Valuation Changes and Offsets

(\$ in millions)

■ MSR and ESS fair value change before realization of cash flows

■ Change in fair value of Agency MBS and Interest rate hedges



- PMT seeks to manage interest rate risk exposure on a “global” basis, recognizing interest rate sensitivities across its investment strategies
- PMT has a history of successfully hedging to offset the majority of the interest rate risk inherent in mortgage servicing rights
- In 2Q20, MSR fair value decreased due to:
 - Expectations for increased prepayment activity in the future related to lower interest rates
 - Higher-than-modeled actual prepayments
- Interest rate hedges reported a net loss reflecting:
 - Maintenance of our hedge discipline throughout market turmoil; elevated volatility early in 2Q20 drove option costs to near record highs
 - Volatility which decreased by June 30 resulting in fair value losses on options
- Year-to-date through June 30, MSR and ESS fair value losses totaled \$690.1 million, more than offset by gains in fair value of Agency MBS and interest rate hedges totaling \$825.3 million
 - Reflects disciplined focus on capital preservation and risk management to protect the value of the MSR and ESS assets across varying interest rate environments

Financial Results



Second Quarter Results and Return Contributions by Strategy

(\$ in millions)	Total Income Contribution ⁽¹⁾	Market-Driven Value Changes ⁽²⁾	Income Excluding Market-Driven Value Changes ⁽¹⁾⁽²⁾	WA Equity Allocated ⁽³⁾	Annualized Return on Equity (ROE) ⁽¹⁾
Credit sensitive strategies:					
GSE credit risk transfer	\$ 457.4	\$ 403.1	\$ 54.3	\$ 621	295%
Other credit sensitive strategies	1.4	0.6	0.8	27	20%
Net credit sensitive strategies	\$ 458.8	\$ 403.7	\$ 55.1	\$ 648	283%
Interest rate sensitive strategies:					
MSRs (incl. recapture)	\$ (88.0)	\$ (111.6)	\$ 23.6		
ESS (incl. recapture)	1.5	(0.6)	2.2		
Agency MBS	20.0	5.2	14.8		
Non-Agency senior MBS (incl. jumbo)	0.0	-	0.0		
Interest rate hedges	(51.0)	(51.0)	-		
Net interest rate sensitive strategies	\$ (117.5)	\$ (158.1)	\$ 40.6	\$ 729	-64%
Correspondent production	\$ 139.6		\$ 139.6	\$ 458	122%
Cash, short term investments, and other	\$ 1.2		\$ 1.2	\$ 244	2%
Management fees & corporate expenses	(14.0)	n/a	(14.0)		-3%
Corporate⁽⁴⁾	\$ (12.8)	n/a	\$ (12.8)	\$ 244	-2%
Benefit / (Provision) for income tax expense	\$ (3.4)	\$ -	\$ (3.4)		
Net income	\$ 464.6	\$ 245.6	\$ 219.0	\$ 2,079	89%
Dividends on preferred stock	\$ 6.2			\$ 300	8%
Net income attributable to common shareholders	\$ 458.4			\$ 1,780	103%
Diluted EPS	\$ 4.51				

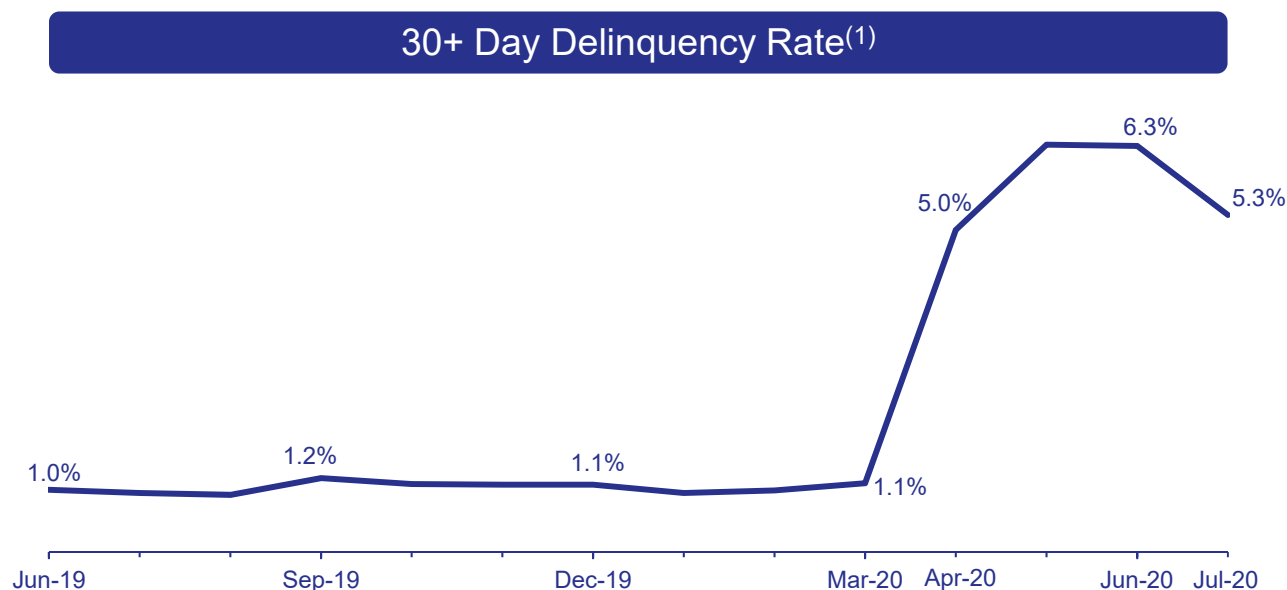
Note: Amounts may not sum exactly due to rounding

- (1) Income contribution and the annualized return on equity calculated net of any direct expenses associated with investments (e.g., loan fulfillment fees and loan servicing fees), but before tax expenses. Some of the income associated with the investment strategies may be subject to taxation.
- (2) Market-driven value changes include fair value recognition upon loan delivery under firm commitment to purchase CRT securities attributable to the credit sensitive strategies segment; see slide 17 for details. Categorization of income as market-driven value changes based on management assessment. Income excluding market-driven value changes does not represent REIT taxable income.
- (3) Equity allocated represents management's internal allocation. Certain financing balances and associated interest expenses are allocated between investments based on management's assessment of target leverage ratios and required capital or liquidity to support the investment.
- (4) ROE calculated as a percentage of total equity

Performance of the GSE Credit Risk Transfer Investments in 2Q20

(\$ in millions)	(Loss) Income Contribution	Comments
Market-driven value changes:		
Valuation-related changes included in Net gain (loss) on investment	\$ 410.7	<ul style="list-style-type: none"> • Reflects a decrease in the market discount rates and improvements in market credit outlook since March 31, 2020
Net gain on mortgage loans acquired for sale	(7.6)	<ul style="list-style-type: none"> • Fair value losses upon loan delivery under firm commitment to purchase CRT securities
	<u>403.1</u>	
Income excluding market-driven value changes:		
Realized gains and carry included in Net gain (loss) on investment	63.8	<ul style="list-style-type: none"> • Spread income earned on CRT investments
Losses recognized during period	(2.7)	<ul style="list-style-type: none"> • Expected increases in losses due to COVID-19-related impacts have not yet materialized
Interest income	0.5	<ul style="list-style-type: none"> • Interest income on cash deposits securing CRT investments
Interest expense	(7.3)	<ul style="list-style-type: none"> • Financing expense related to CRT investments
	<u>54.3</u>	
Total income contribution	<u>\$ 457.4</u>	

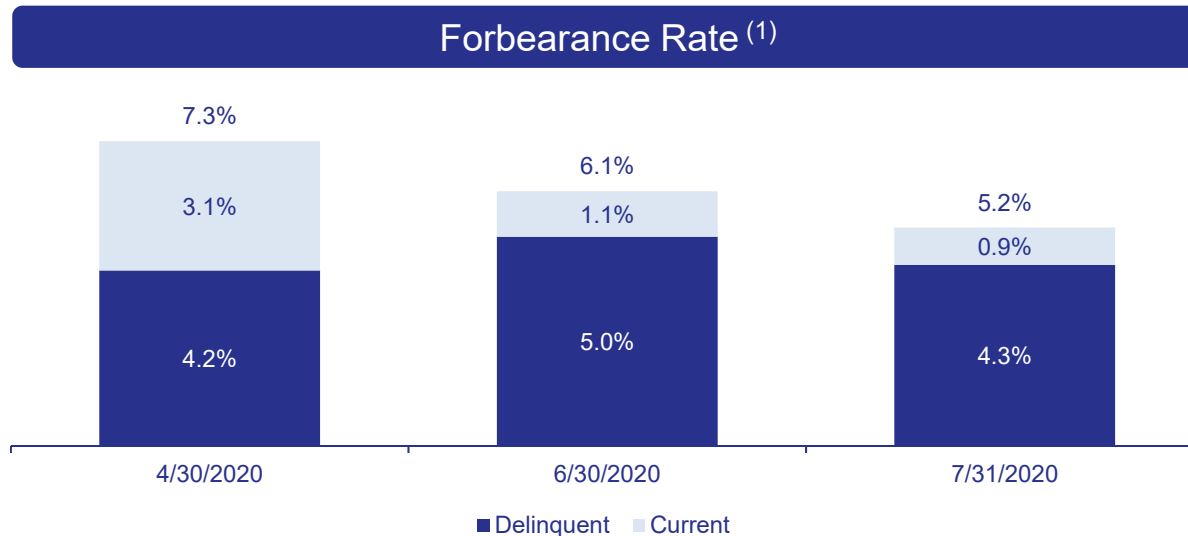
Servicing Trends – Delinquencies & Advances for PMT's MSR Portfolio



- Servicing advances outstanding were \$42 million at July 31, versus \$34 million at April 30, 2020
 - Fannie Mae and Freddie Mac require servicers to advance principal and interest (P&I) payments for delinquent loans for only four months
 - No P&I advances have been made in 2020, as prepayment activity continues to sufficiently cover the GSE requirements
 - The majority of advances related to PMT's Agency MSR portfolio are expected to be related to property taxes and insurance to protect investors' interest in the property collateralizing the mortgages
- PMT has historically funded servicing advances with corporate cash
 - PMT has approximately \$1.4 billion in available liquidity, less \$100 million in minimum liquidity covenants, as of July 31, 2020

⁽¹⁾ Delinquency data based on loan count (i.e., not UPB). As of 7/31/2020, 30+ day delinquency units amounted to 31,340, total portfolio units were 596,293, and portfolio UPB was \$150.0 billion.

MSR Portfolio Servicing Trends – COVID Forbearances



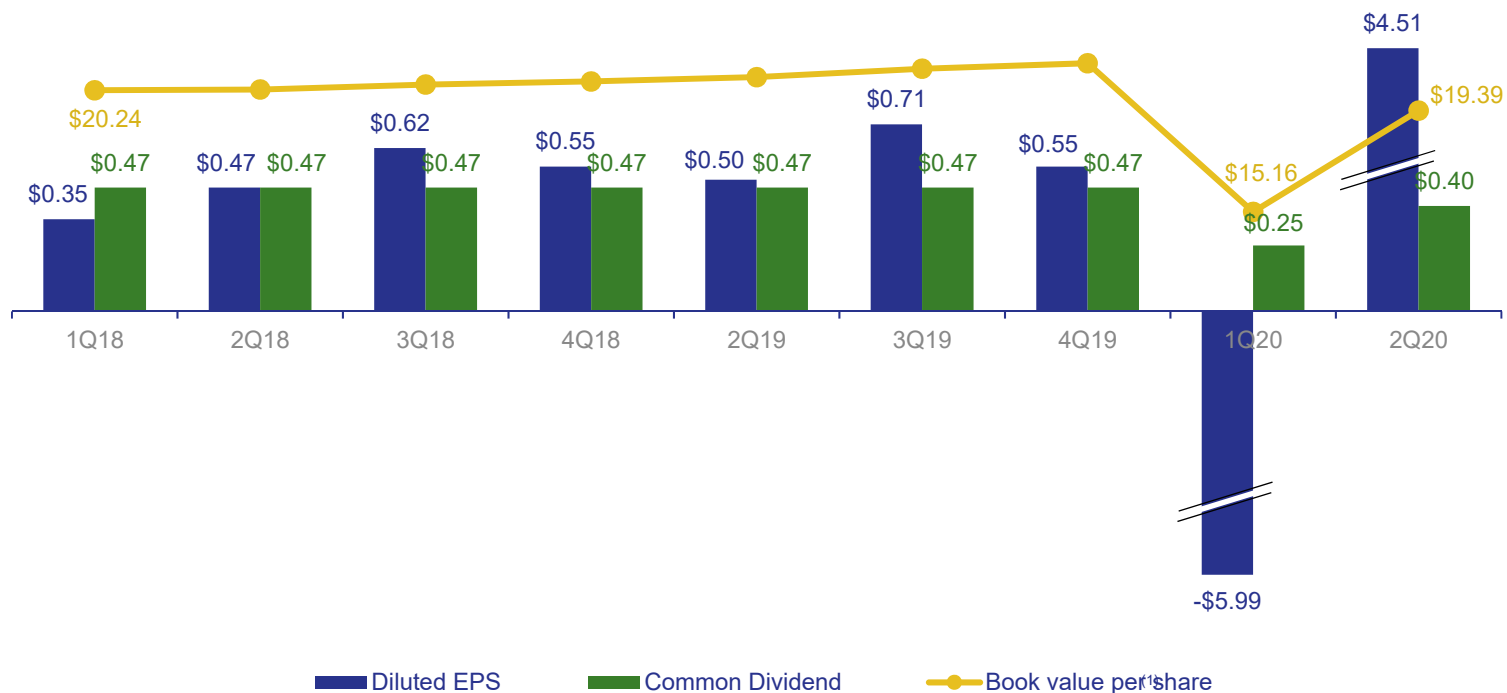
- 59% of forbearance plans in effect for PMT’s servicing portfolio as of April 30th have been extended
- The percentage of loans in PMT’s MSR portfolio under forbearance plans declined from April 30th to July 31st, as a 13% increase in new forbearance plans since April 30th was more than offset by 39% of borrowers in forbearance plans as of April 30th who have exited
 - Loans in forbearance that remained current or went delinquent and subsequently re-performed were 31%
 - Forbearances transitioning to active loss mitigation primarily for payment deferral and streamline modifications represented 4%
 - Payoffs represented approximately 4%
- Forbearances in effect at April 30, 2020 related to loans underlying PMT’s CRT investments, PMTT1, PMTT2, and PMTT3 declined at a rate consistent with PMT’s portfolio overall
 - Such “cures” out of forbearance related to these CRT transactions reduce the loss realization potential which would result if loans migrate to 180 days past due, under these structures

⁽¹⁾Forbearance data based on loan count (i.e., not UPB). As of 7/31/2020, forbearance units amounted to 31,166, total portfolio units were 596,293, and portfolio UPB was \$150.0 billion

Appendix



Historical Earnings, Dividends and Book Value Per Share



ROE⁽²⁾ 10% 13% 11% 14% 10% 14% 10% -119% 103%

- Repurchased 16.1 million common shares from 3Q15 through 2Q20
- Issued 39.2 million common shares through underwritten common equity offerings and our ATM program in 2019 and 2020

⁽¹⁾ At period end

⁽²⁾ Return on average common equity is calculated based on annualized quarterly net income attributable to common shareholders as a percentage of monthly average common equity during the period

Interest Rate Sensitive Strategies Designed to Mitigate Interest Rate Volatility

Gain in value with increasing rates

MSRs

ESS

Gain in value with decreasing rates

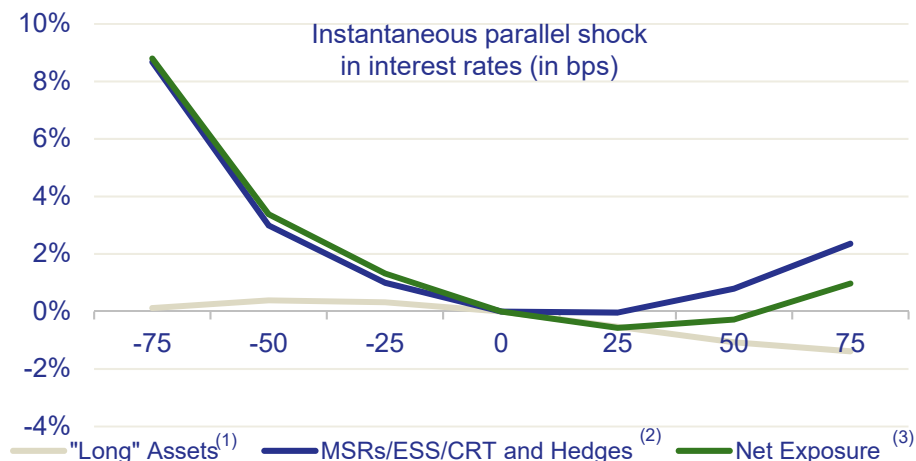
Agency MBS

Interest Rate Hedges

Estimated Sensitivity to Changes in Interest Rates

At 6/30/20

% change in PMT's shareholders' equity



- PMT's interest rate risk exposure is managed on a "global" basis
 - Multiple mortgage-related investment strategies with complementary interest rate sensitivities
 - Utilization of financial hedge instruments
 - Contributes to stability of book value

⁽¹⁾ Includes loans acquired for sale and IRLCs, net of associated hedges, Agency and Non-Agency MBS assets

⁽²⁾ Includes MSRs, ESS, CRT, and Hedges which include put and call options on MBS, Eurodollar futures, Treasury futures, and Exchange-traded swaps

⁽³⁾ Net Exposure represents the net position of the "Long" Assets and the MSRs/ESS/CRT and Hedges

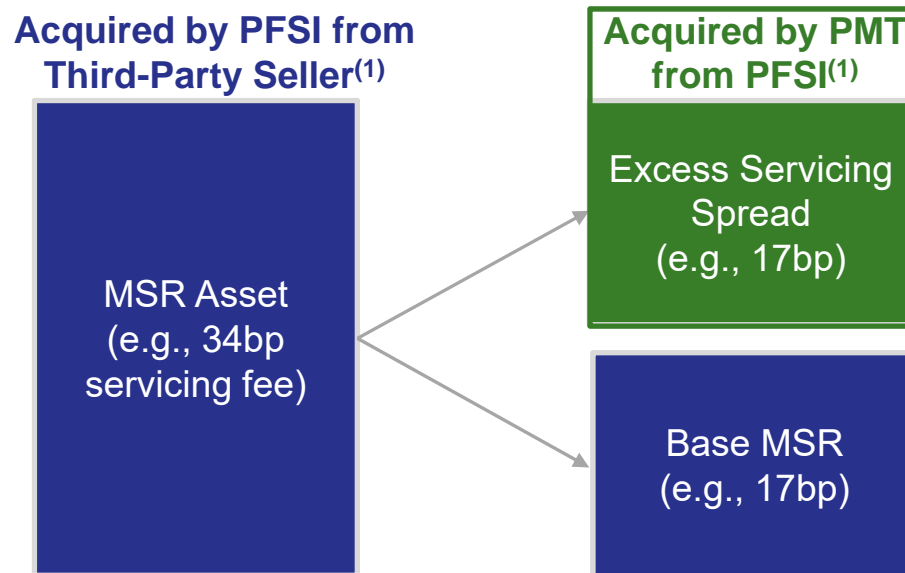
MSRs and ESS Asset Valuation

(\$ in millions)	Mortgage Servicing Rights	Excess Servicing Spread ⁽¹⁾
At 6/30/20		
Pool UPB	\$145,315	\$18,198
Pool weighted average coupon	4.03%	4.19%
Weighted-average pool prepayment speed assumption (CPR)	17.2%	12.1%
Weighted average servicing fee/spread	0.28%	0.19%
Fair value	\$1,190	\$151
As a multiple of servicing fee	2.92	4.43

⁽¹⁾ Pool UPB, weighted average coupon and expected prepayment speed represent the characteristics of the underlying MSR portfolio owned by PFSI. Weighted average servicing spread, fair value and valuation multiple relate to the ESS asset owned by PMT. The fair value assessment of ESS gives consideration to expected servicing fee collections on non-MSR collateral that has been bought out of the underlying MSR pools due to ongoing servicer activity. The balance of the non-MSR collateral is reflected in the pool UPB above in the amount of \$339 million.

PMT's Excess Servicing Spread Investments in Partnership with PFSI

- PMT has co-invested in Agency MSR assets acquired from third-party sellers by PFSI; presently only related to Ginnie Mae MSR assets
- PMT acquires the right to receive the excess servicing spread cash flows over the life of the underlying loans
- PFSI owns the MSR assets and services the loans



Example transaction: actual transaction details may vary materially

Excess Servicing Spread⁽²⁾

- Interest income from a portion of the contractual servicing fee
 - Realized yield dependent on prepayment speeds and recapture

Base MSR

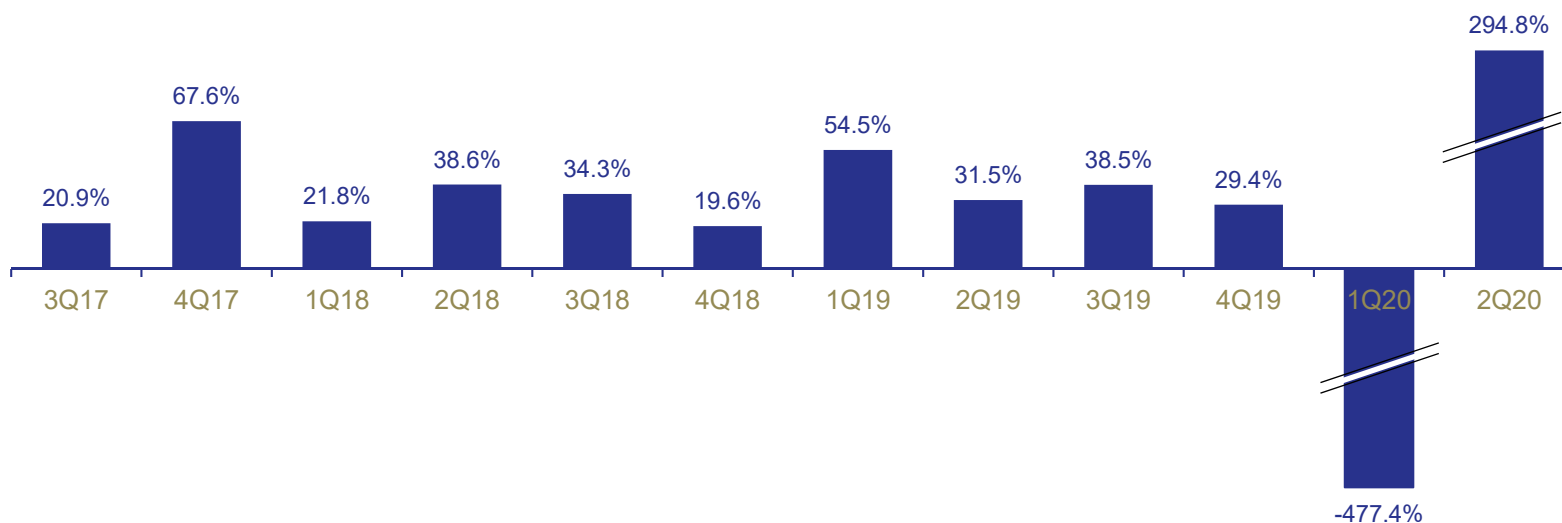
- Income from a portion of the contractual servicing fee
- Also entitled to ancillary income
- Bears expenses of performing loan servicing activities
- Required to advance certain payments largely for delinquent loans

⁽¹⁾ The contractual servicer and MSR owner is PennyMac Loan Services, LLC, a wholly-owned subsidiary of PFSI

⁽²⁾ Subject and subordinate to Agency rights (under the related servicer guide); does not change the contractual servicing fee paid by the Agency to the servicer.

Return on Equity Contribution of the GSE Credit Risk Transfer Investments

Annualized Return on Average CRT Equity



Average CRT equity ⁽¹⁾ (\$ in millions)	3Q17	4Q17	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20
	\$271	\$333	\$403	\$452	\$490	\$446	\$452	\$476	\$574	\$586	\$800	\$621

⁽¹⁾ Equity allocated represents management's internal allocation across segments and investment strategies

Expected Return Scenarios for PMT's CRT Investments

(\$ in millions)	PMTT1, PMTT2, PMTT3 (Scheduled Loss)	L Street Securities 2017-PM1 (Scheduled Loss) ⁽¹⁾	L Street Securities Trust 2019-PM1 (Actual Loss)	CRT-6 (Actual Loss) ⁽²⁾	Total CRT
Face Amount	\$292	\$711	\$664	\$1,795	\$3,461
Fair Value	\$271	\$652	\$602	\$1,604	\$3,130

Scenario	Collateral Remaining Loss ⁽³⁾	IRR ⁽⁴⁾	Collateral Remaining Loss ⁽³⁾	IRR ⁽⁴⁾	Collateral Remaining Loss ⁽³⁾	IRR ⁽⁴⁾	Collateral Remaining Loss ⁽³⁾	IRR ⁽⁴⁾	Collateral Remaining Loss ⁽³⁾	IRR ⁽⁴⁾
Base Case ⁽⁵⁾	0.3%	6.8%	0.4%	7.3%	0.4%	8.8%	0.3%	9.3%	0.3%	8.6%

- Losses and returns for PMTT1, PMTT2 and PMTT3 above reflect assumptions that most loans in COVID-19 forbearance do not ultimately become credit events at 180 days or more delinquent
 - Losses on these loans may be avoided either by successful loss mitigation, including payment deferral as an exit from forbearance, or the implementation of contractual changes in loss triggers similar to those put in place in prior natural disasters
 - Expected returns for these investments would decline if these loans do ultimately become credit events at 180 days or more delinquent

⁽¹⁾ Mortgage Obligations become credit events at 180 days or more delinquent. However, such losses will become reversed credit events if the payment status is reported as current at the conclusion of a forbearance period due to a casualty event (such as natural disaster, fire or theft) or up to 3 months thereafter if necessary. Fannie Mae has published clarification that the COVID-19 pandemic is a casualty event. Source: <https://www.fanniemae.com/portal/funding-the-market/credit-risk/news/covid19-casualty-event-cas-050120.html>

⁽²⁾ PMT is currently in the aggregation period delivering loans to Fannie Mae under a commitment for a sixth CRT transaction – not yet funded. Fair value is presented here on a pro forma basis that also includes the face amount of firm commitment to purchase CRT securities.

⁽³⁾ Remaining loss is measured as expected losses divided by the UPB of the loan collateral

⁽⁴⁾ IRR is equivalent to discount rate as will be presented in Note 7 of PMT's 10-Q for CRT Agreements, CRT strips, and firm commitment to purchase CRT securities

⁽⁵⁾ Valuation assumptions presented in the Base Case are consistent with valuation assumptions to be presented for CRT Agreements, CRT strips, and firm commitment to purchase CRT securities in Note 7 – Fair Value of PMT's 10-Q to be filed for the period ended June 30, 2020

CRT Term Notes Are Critically Important Financing Structure

Transaction	PMTT1 PMTT2 PMTT3	L Street Securities 2017-PM1	L Street Securities Trust 2019-PMT1	CRT-6 ⁽¹⁾
Status	Funded	Funded	Funded	In aggregation
UPB ⁽²⁾ (\$ in billions)	\$5.9	\$14.1	\$12.1	\$48.4
Face Amount ⁽²⁾ (\$ in millions)	\$291.6	\$710.7	\$664.2	\$1,794.7
Financing ⁽²⁾	<ul style="list-style-type: none"> \$234 million of 3-year term notes due March 2022 	<ul style="list-style-type: none"> \$592 million of 4-year term notes due May 2023 	<ul style="list-style-type: none"> \$267 million of 3-year term notes due October 2022 \$274 million of 3-year term notes due February 2023 	<ul style="list-style-type: none"> Commitment to acquire CRT securities – not yet funded Alternative options exist at settlement

- PMT completed term financing for all of its funded CRT investments in February 2020
- As a result of the term financing structure, PMT has not been subject to margin calls
 - Term notes do not contain mark-to-market provisions
 - Any increased losses on CRT investments do not accelerate amortization of the term notes
 - Earliest maturity is March 2022; all notes contain optional two-year extensions

⁽¹⁾ PMT is currently in the aggregation period delivering loans to Fannie Mae under a commitment for a sixth CRT transaction. UPB represents the volume outstanding as of June 30, 2020.

⁽²⁾ As of June 30, 2020

Credit Risk Transfer – Balance Sheet Treatment

(\$ in thousands)	At June 30, 2020	
UPB of loans subject to guarantee obligation.....	\$ 80,532,460	} Current outstanding UPB of loans delivered to the CRT SPVs and sold to Fannie Mae or delivered subject to agreements to purchase REMIC CRT securities
Carrying value of CRT arrangements:		
Deposits securing CRT arrangements.....	\$ 1,666,449	} Current cash collateralizing guarantee included in “Deposits securing credit risk transfer arrangements”
Derivative and credit risk transfer strip liabilities.....	\$ (125,301)	} Represents the fair value of expected future cash inflows related to assumption of credit risk net of expected future losses
Interest-only stripped security payable at fair value.....	\$ (14,981)	} Fair value of non-recourse liability issued by CRT trusts; represents value of interest-only payment after the maturity of PMT’s investments
Fair value of the funded CRT investments – PMTT (1-3), L Street Securities 2017-PM1, L Street Securities Trust 2019-PMT1.....	\$ 1,526,167	
Firm commitment to purchase CRT security.....	\$ (191,193)	} Fair value of firm commitment to purchase REMIC CRT securities based on loans delivered to date
Face amount of firm commitment to purchase CRT securities..... ⁽¹⁾	\$ 1,794,717	} Face amount of firm commitment to purchase REMIC CRT securities related to loans delivered
Fair value of the unfunded CRT commitment (CRT-6).....⁽²⁾	\$ 1,603,524	

⁽¹⁾ Not reflected on PMT’s balance sheet

⁽²⁾ PMT is currently in the aggregation period delivering loans to Fannie Mae under a commitment for a sixth CRT transaction – not yet funded. Presented here on a pro forma basis that also includes the face amount of firm commitment to purchase CRT securities.

PMT's Investments in GSE Credit Risk Transfer

(UPB in billions)

PMTT1 (May 2015 - July 2015)		
	At inception	6/30/2020
UPB	\$ 1.2	\$ 0.5
Loan Count	4,113	2,048
% Purchase	67.6%	70.0%
WA FICO ⁽¹⁾	742	744
WA LTV ⁽¹⁾	81.3%	81.3%
60+ Days Delinquent Loan Count		123
60+ Days Delinquent % o/s UPB		6.569%
180+ Days Delinquent Loan Count		4
Realized Losses (\$k)		\$ 606

PMTT2 (August 2015 - February 2016)		
	At inception	6/30/2020
UPB	\$ 4.2	\$ 1.8
Loan Count	15,146	7,760
% Purchase	71.4%	74.0%
WA FICO ⁽¹⁾	742	744
WA LTV ⁽¹⁾	81.8%	81.8%
60+ Days Delinquent Loan Count		485
60+ Days Delinquent % o/s UPB		7.205%
180+ Days Delinquent Loan Count		30
Realized Losses (\$k)		\$ 2,434

PMTT3 (February 2016 - August 2016)		
	At inception	6/30/2020
UPB	\$ 6.5	\$ 3.6
Loan Count	21,467	13,548
% Purchase	68.6%	71.3%
WA FICO ⁽¹⁾	749	750
WA LTV ⁽¹⁾	81.4%	81.4%
60+ Days Delinquent Loan Count		869
60+ Days Delinquent % o/s UPB		7.067%
180+ Days Delinquent Loan Count		32
Realized Losses (\$k)		\$ 2,488

L Street Securities 2017-PM1 (August 2016 - May 2018)		
	At inception	6/30/2020
UPB	\$ 22.8	\$ 14.1
Loan Count	82,086	56,275
% Purchase	73.6%	74.3%
WA FICO ⁽¹⁾	746	746
WA LTV ⁽¹⁾	82.5%	82.4%
60+ Days Delinquent Loan Count		4,202
60+ Days Delinquent % o/s UPB		8.371%
180+ Days Delinquent Loan Count		153
Realized Losses (\$k)		\$ 7,357

L Street Securities Trust 2019-PMT1 (June 2018 - March 2019)		
	At inception	6/30/2020
UPB	\$ 23.6	\$ 12.1
Loan Count	84,521	48,919
% Purchase	81.7%	81.0%
WA FICO ⁽¹⁾	746	742
WA LTV ⁽¹⁾	83.8%	84.1%
60+ Days Delinquent Loan Count		4,575
60+ Days Delinquent % o/s UPB		10.772%
180+ Days Delinquent Loan Count		122
Realized Losses (\$k)		\$ 78

CRT-6 (April 2019 - Current)		
	At inception	6/30/2020
UPB	\$ 56.5	\$ 48.4
Loan Count	188,101	166,941
% Purchase	62.0%	61.9%
WA FICO ⁽¹⁾	757	757
WA LTV ⁽¹⁾	82.6%	82.7%
60+ Days Delinquent Loan Count		9,255
60+ Days Delinquent % o/s UPB		6.145%
180+ Days Delinquent Loan Count		37
Realized Losses (\$k)		-

Total		
	At inception	6/30/2020
UPB	\$ 114.7	\$ 80.5
Loan Count	395,434	295,491
% Purchase	69.4%	68.2%
WA FICO ⁽¹⁾	752	752
WA LTV ⁽¹⁾	82.7%	82.8%
60+ Days Delinquent Loan Count		19,509
60+ Days Delinquent % o/s UPB		7.299%
180+ Days Delinquent Loan Count		378
Realized Losses (\$k)		\$ 12,964

⁽¹⁾ FICO and LTV metrics at origination
May not sum due to rounding

Correspondent Production Acquisitions and Locks by Product

(UPB in millions)	2Q19	3Q19	4Q19	1Q20	2Q20
Acquisitions					
Conventional Conforming	\$ 10,737	\$ 16,644	\$ 20,510	\$ 16,153	\$ 18,900
Government	10,574	14,346	16,653	13,616	10,991
Non-Agency ⁽¹⁾	4	3	-	-	-
Total Correspondent Acquisitions	\$ 21,315	\$ 30,993	\$ 37,163	\$ 29,768	\$ 29,890
PFSI's Direct Lending Loans Acquired by PMT	\$ 1,442	\$ 1,853	\$ 2,143	\$ 1,881	\$ 2
Total Acquisitions	\$ 22,757	\$ 32,846	\$ 39,306	\$ 31,649	\$ 29,893
Locks					
Conventional Conforming	\$ 12,628	\$ 19,461	\$ 19,736	\$ 19,109	\$ 24,804
Government	12,028	15,933	16,225	14,871	12,920
Non-Agency ⁽¹⁾	14	1	-	-	-
Total Locks	\$ 24,671	\$ 35,395	\$ 35,961	\$ 33,980	\$ 37,725

Note: Conventional Conforming, Government, and Non-Agency acquisitions exclude PennyMac Financial's Direct Lending Loans Acquired by PMT.

⁽¹⁾ Consists of prime jumbo and non-QM loans