



MBTA Retirement Fund

FMCB Update

6/19/2017

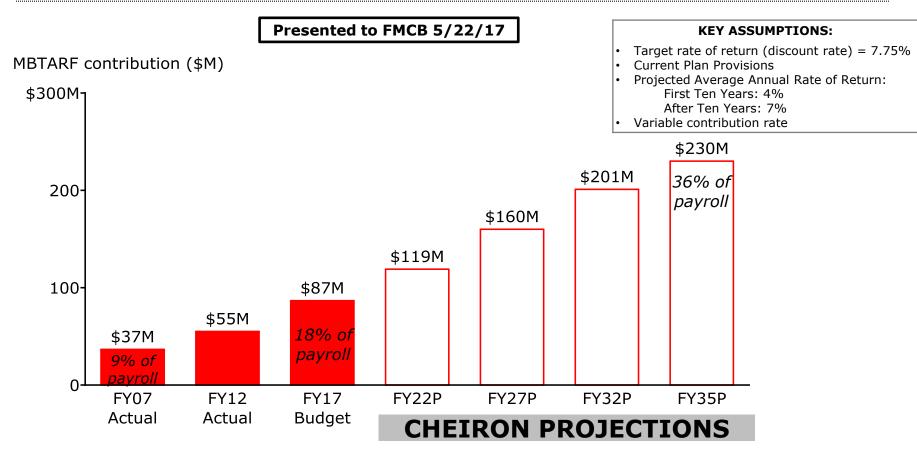




Sensitivity Analysis



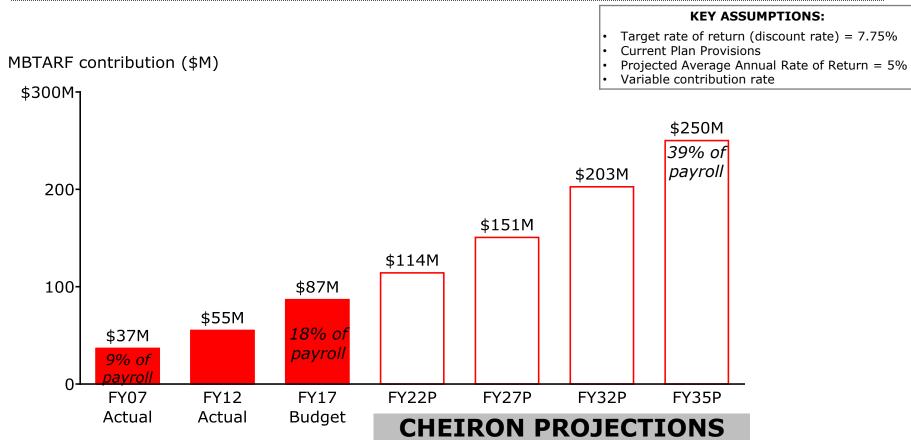
Without action, the MBTA annual contribution could grow to \$200M+ and consume 36% of payroll



Note: \$7.0M in contributions during FY07 were retroactive 'catch-up' payments for previous years in which not enough had been contributed compared with contractual obligations; these have been removed Source: MBTA Financials; Cheiron Projections



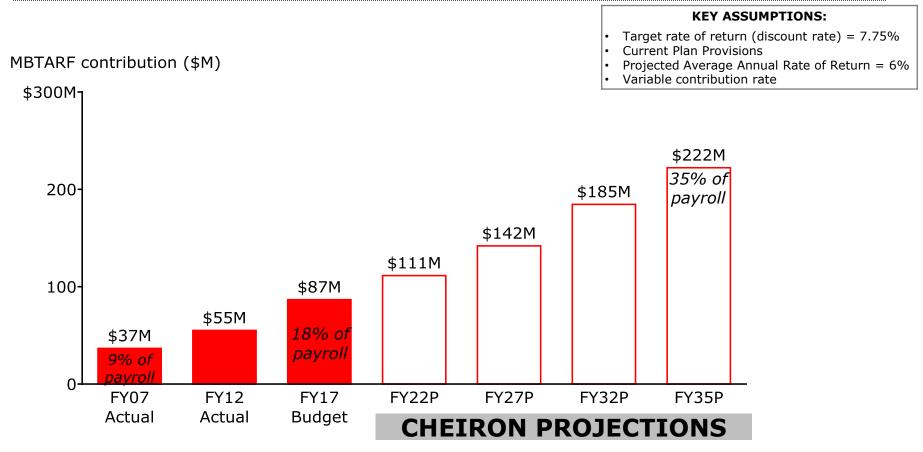
MBTA Required Contribution at 5% market returns 39% of payroll



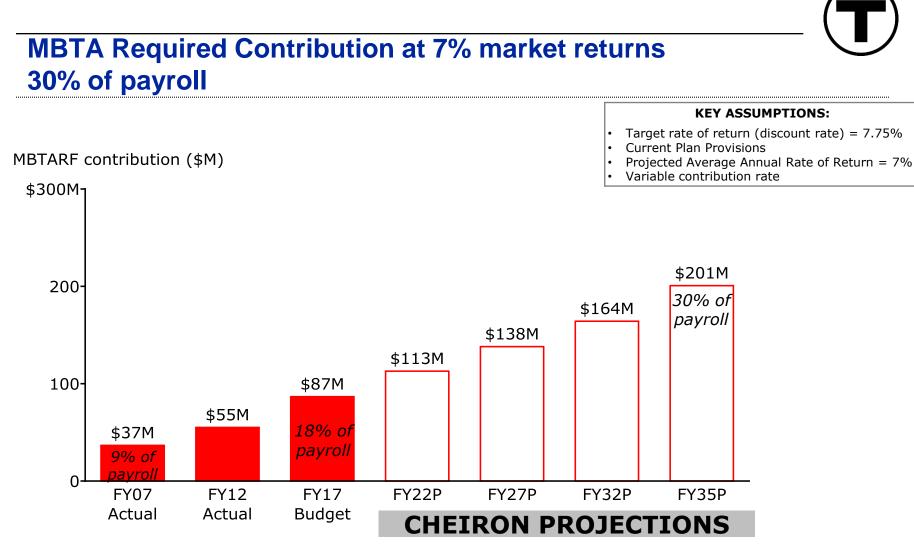
Note: \$7.0M in contributions during FY07 were retroactive 'catch-up' payments for previous years in which not enough had been contributed compared with contractual obligations; these have been removed Source: MBTA Financials; Cheiron Projections



MBTA Required Contribution at 6% market returns 35% of payroll



Note: \$7.0M in contributions during FY07 were retroactive 'catch-up' payments for previous years in which not enough had been contributed compared with contractual obligations; these have been removed Source: MBTA Financials; Cheiron Projections



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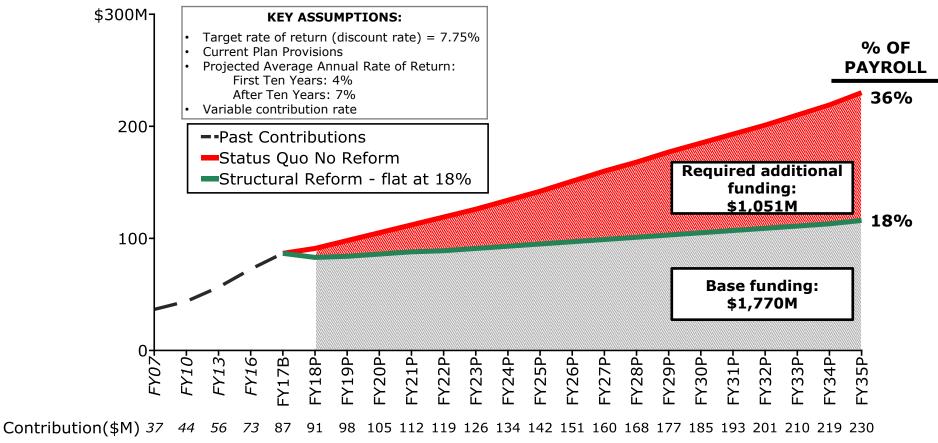


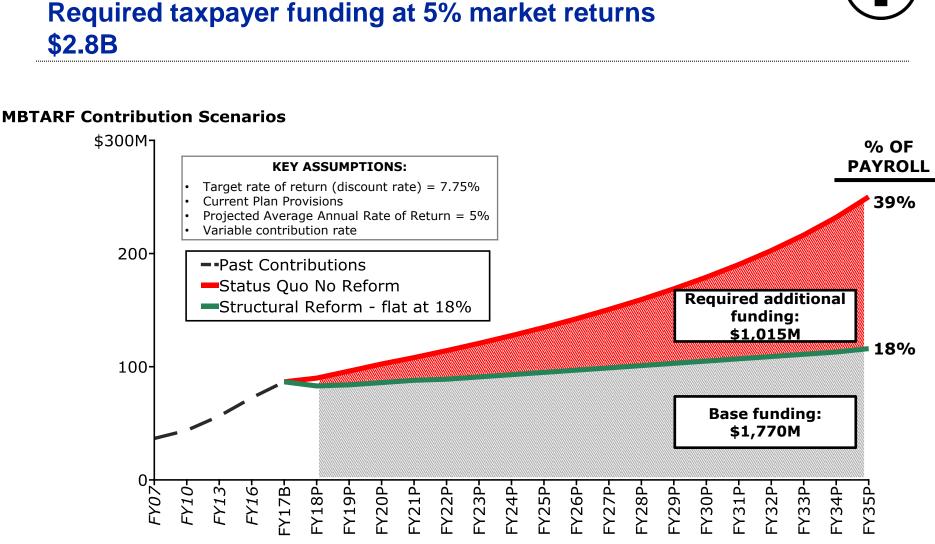


Without action, MBTARF could require \$3B in taxpayer funding over next 20 years

Presented to FMCB 5/22/17

MBTARF Contribution Scenarios



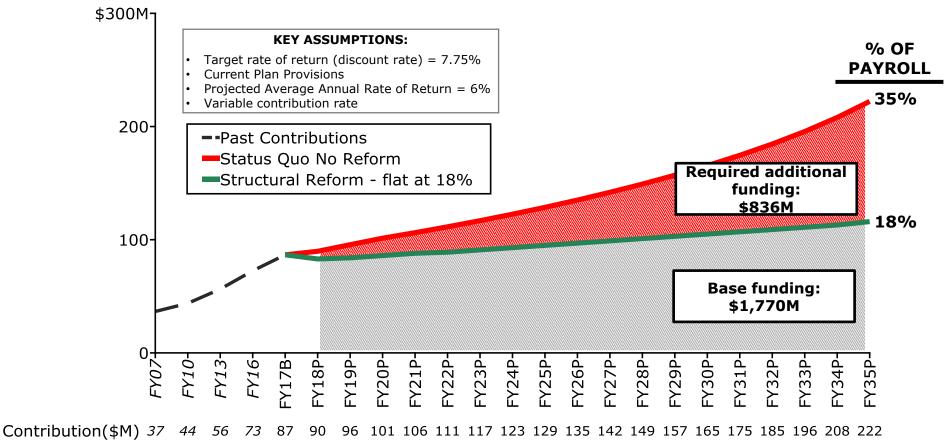


Contribution(\$M) 37 44 56 73 87 90 96 102 108 114 121 127 135 142 151 159 169 179 190 203 216 232 250



Required taxpayer funding at 6% market returns \$2.6B

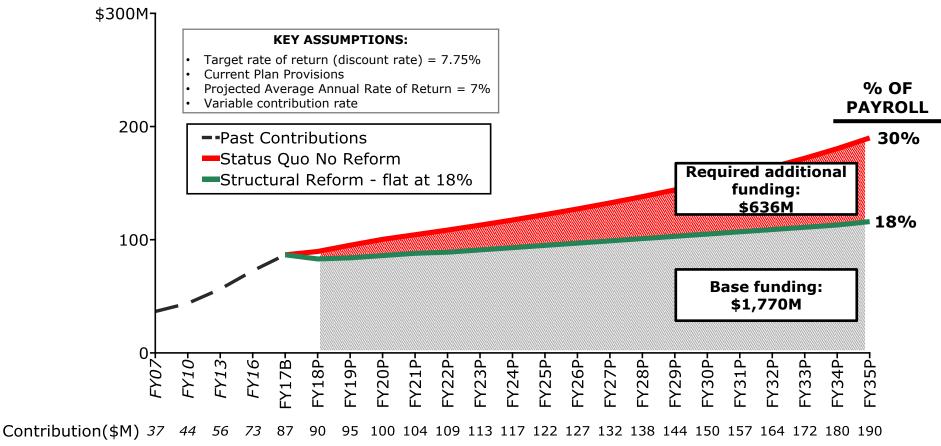
MBTARF Contribution Scenarios





Required taxpayer funding at 7% market returns \$2.4B

MBTARF Contribution Scenarios





2016 Valuation Update

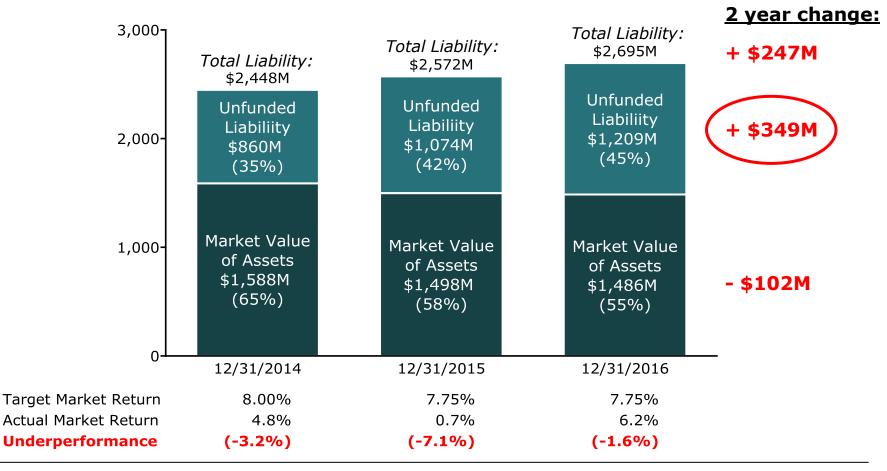




Preliminary as of 6/13/2017

Measured on a market-value basis, unfunded liability has increased by \$349M since 12/31/2014

Assets and Liabilities of the MBTARF, 2014 - 2016



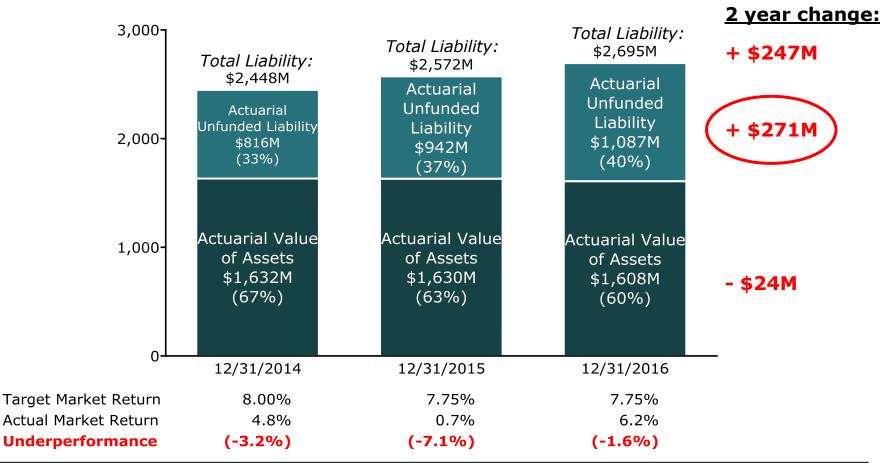




Preliminary as of 6/13/2017

Measured on an actuarial-value basis, unfunded liability has increased by \$271M since 12/31/2014

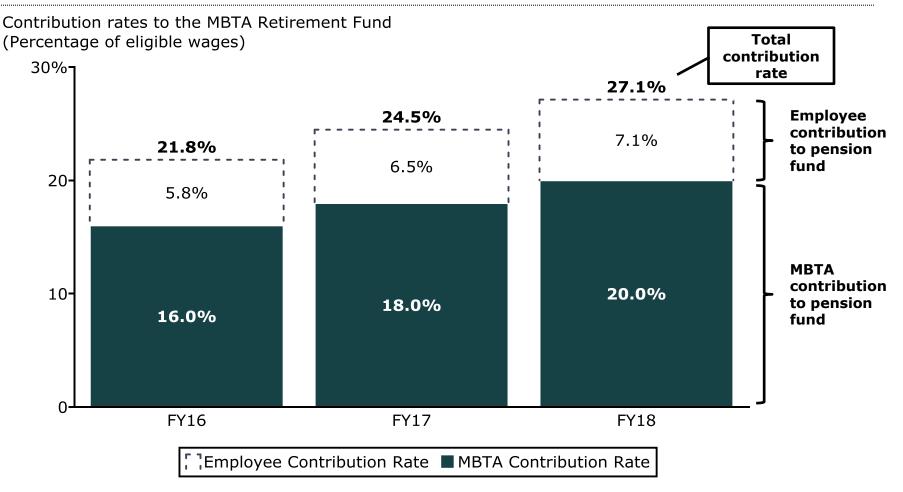
Assets and Liabilities of the MBTARF, 2014 - 2016







Contribution rate (%): FY16 – FY18



Source: MBTARF Contribution Rates





MBTA pension expense will grow 27% (\$20M) from FY16

Contribution rate (\$): FY16 – FY18P

through FY18 MBTA Main Fund Contribution (\$M) \$100M₇ \$94M \$86M 80-\$74M 60 40-20-0 FY16 FY17P FY18P