## 5

## TEXAS COUNTY \& DISTRICT RETIREMENT SYSTEM

## TCDRS

Retirement Presentation
FY2018 BUDGET WORKSHOP

## Benefits Provided

Deposit Rate
Matching Rate
Vesting Period
Retirement Eligibility
$>$ Age 60 \& 8 years of service
$>30$ years of service
$>$ Age + years of service $=75$
Guaranteed Interest Rate 7\%
*for employee contributions made on or after 1/1/2011

200\%*
8 years

## County Comparison

| County | Pmployee <br> Contribution <br> $\%$ | County <br> Match <br> $\%$ | Years of <br> Service for <br> Vesting | Retirement <br> Pligibility <br> Rule | Most <br> Recent <br> Retiree <br> COLA | Type and <br> Rate of <br> Retiree <br> COLA | Group <br> Term Life |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Collin | 7 | 200 | 8 | 75 | 2013 | CPI 60\% |  <br> Retiree |
| Bexar* | 7 | 200 | 8 | 75 | 2014 | Flat 2\% | No |
| Dallas | 7 | 200 | 10 | 80 | - | - | No |
| Denton* | 7 | 220 | 8 | 75 | 2017 | CPI 80\% | Active |
| El Paso* | 7 | 250 | 8 | 75 | 2016 | Flat $1 \%$ | No |
| Fort Bend | 7 | 200 | 8 | 75 | 2014 | CPI 10\% | No |
| Harris | 7 | 225 | 8 | 75 | - | - | No |
| Hidalgo* | 7 | 200 | 8 | 75 | 2016 | CPI 100\% | No |
| Montgomery | 6 | 250 | 8 | 75 | 2017 | CPI 10\% | No |
| Tarrant | 7 | 200 | 8 | 75 | 2017 | CPI 50\% | No |
| Travis | 7 | 225 | 8 | 75 | 2016 | CPI $50 \%$ | No |
| Williamson | 7 | 250 | 8 | 75 | 2016 | CPI 60\% | No |

*Allows 20 years of service for retirement at any age, all others require 30 years of service for retirement at any age.

## City Comparison

| City | Employee Contribution \% |  | Years of Service for Vesting | Retirement Dligibility Rule | Retiree Increases 2017 | Retiree <br> Death <br> Benefit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Allen | 7 | 200 | 5 | N/A | CPI 70\% | Active \& Retiree |
| Frisco | 7 | 200 | 5 | N/A | CPI 70\% | Active \& Retiree |
| McKinney | 7 | 200 | 5 | N/A | CPI 70\% | Active \& Retiree |
| Plano | 7 | 200 | 5 | N/A | CPI 70\% | No |
| Richardson* | 7 | 200 | 5 | N/A | CPI 50\% | No |
| Wylie | 7 | 200 | 5 | N/A | CPI 70\% | Active \& Retiree |

*Requires 25 years of service for retirement at any age, all others allows 20 years of service for retirement at any age.

## Portfolio Rate of Return

| Year | Return |
| :--- | :--- |
| 2007 | $8.1 \%$ |
| 2008 | $(28.9) \%$ |
| 2009 | $26.7 \%$ |
| 2010 | $12.8 \%$ |
| 2011 | $(1.0) \%$ |
| 2012 | $12.6 \%$ |
| 2013 | $16.4 \%$ |
| 2014 | $6.8 \%$ |
| 2015 | $(0.7) \%$ |
| 2016 | $7.5 \%$ |


| Total fund return as of $\mathbf{1 2 / 2 0 1 6}$ |  |
| :--- | :--- |
| 1 year | $7.5 \%$ |
| 3 year | $4.5 \%$ |
| 5 years | $8.3 \%$ |
| 10 years | $4.9 \%$ |
| 20 years | $7.1 \%$ |
| 30 years | $8.0 \%$ |

## Rate of Return (Illustration Only)



- 8\% return required to cover guaranteed return


## Rate of Return (Illustration Only)

| Year | Required <br> Account <br> Value | Required <br> Rate of <br> Return | Required <br> Dnding <br> Balance | Actual <br> Account <br> Value | Actual <br> Return | Actual <br> Dnding <br> Balance |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| 2007 | $\$ 1,000$ | $\$ 80$ | $\$ 1,180$ | $\$ 1,000$ | $\$ 81$ | $\$ 1,081$ |
| 2008 | $\$ 1,180$ | $\$ 86$ | $\$ 1,166$ | $\$ 1,081$ | $-\$ 312$ | $\$ 769$ |
| 2009 | $\$ 1,166$ | $\$ 93$ | $\$ 1,260$ | $\$ 769$ | $\$ 205$ | $\$ 974$ |
| 2010 | $\$ 1,260$ | $\$ 101$ | $\$ 1,360$ | $\$ 974$ | $\$ 125$ | $\$ 1,099$ |
| 2011 | $\$ 1,360$ | $\$ 109$ | $\$ 1,469$ | $\$ 1,099$ | $-\$ 11$ | $\$ 1,088$ |
| 2012 | $\$ 1,469$ | $\$ 118$ | $\$ 1,587$ | $\$ 1,088$ | $\$ 137$ | $\$ 1,225$ |
| 2013 | $\$ 1,587$ | $\$ 127$ | $\$ 1,714$ | $\$ 1,225$ | $\$ 201$ | $\$ 1,426$ |
| 2014 | $\$ 1,714$ | $\$ 137$ | $\$ 1,851$ | $\$ 1,426$ | $\$ 97$ | $\$ 1,523$ |
| 2015 | $\$ 1,851$ | $\$ 148$ | $\$ 1,999$ | $\$ 1,523$ | $-\$ 11$ | $\$ 1,512$ |
| 2016 | $\$ 2,999$ | $\$ 160$ | $\$ 2,159$ | $\$ 1,512$ | $\$ 113$ | $\$ 1,625$ |

Returns over and under 8\% may be allocated to or from reserves, rather than to the account, dependent upon the decision made each year by the TCDRS board. This illustration shows actual returns without taking into account any funds allocated to and from reserves. This calculation does not reflect the smoothing process that occurs for losses and gains over a 5-year time period.

## Rate of Return (Illustration Only)



500

0

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2007 | 2008 | 2009 $-A$ | 2010 | 2011 | 2012 | 2013 ding Ba | 2014 | 2015 | 2016 |

## Change in Fund Structure

Previous Structure

## Current Structure




Benefit payments will still be issued by TCDRS. This new structure just changes our accounting.

## Change in Annuity Purchase Rates

> Benefits based on member deposits prior to January 1, 2018, will not be affected.
$>$ People are expected to live longer. Benefits based on member deposits on or after January 1, 2018, will be based on adjusted mortality tables.
$>$ This change does not affect employee's retirement eligibility.

## Cost

|  | Normal <br> Rate (\%) | UAAL <br> Rate (\%) | COLA <br> RATE(\%) | Total (\%) | County Contribution (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2009 | 9.09 | 2.81 | . 23 | 12.13 | 13.00 |
| 2010 | 9.10 | 3.74 | . 00 | 12.84 | 13.50 |
| Made a lump sum payment of \$1,130,000 in October 2009 |  |  |  |  |  |
| 2011 | 9.38 | 3.43 | . 08 | 12.89 | 13.50 (original) |
| 2011 | 7.59 | 2.92 | . 08 | 10.59 | 13.50 (revised) |
| Made a lump sum payment of \$5 million in October 2010 |  |  |  |  |  |
| 2012 | 7.57 | 2.90 | . 07 | 10.54 | 13.50 (original) |
| 2012 | 7.57 | 0.00 | . 07 | 7.64 | 7.70 (revised) |
| Made a lump sum payment of \$35.5 million in October 2011 |  |  |  |  |  |
| 2013 | 7.56 | 0.45 | . 05 | 8.06 | 8.50 (original) |
| 2013 | 7.56 | 0.00 | . 05 | 7.61 | 8.50 (revised) |
| Made a lump sum payment of \$2,045,000 in October 2012 |  |  |  |  |  |
| 2014 | 7.55 | 0.51 | . 00 | 8.06 | 8.50 (original) |
| 2014 | 7.55 | 0.00 | . 00 | 7.55 | 8.50 (revised) |
| Made a lump sum payment of \$11,608,062 in November 2013 |  |  |  |  |  |
| 2015 | 7.43 | -1.22 | . 00 | 6.21 | 8.00 |
| 2016 | 7.44 | -1.73 | . 00 | 5.71 | 8.00 |
| 2017 | 7.08 | -0.86 | . 00 | 6.22 | 8.00 |
| 2018 | 7.09 | -0.32 | Not Decided | 6.77 | 8.00 (budgeted) |

Lump sum payments were made to reduce the unfunded actuarial liability

## County Rate Comparison

| County | Requiped Rate |  |
| :--- | :---: | :--- |
|  |  |  |
| Collin | $6.77 \%$ | $8.00 \%$ |
| Bexar | $11.91 \%$ | $15.48 \%$ |
| Dallas | $12.27 \%$ | $12.27 \%$ |
| Denton | $12.97 \%$ | $12.97 \%$ |
| El Paso | $16.78 \%$ | $16.78 \%$ |
| Fort Bend | $12.12 \%$ | $12.12 \%$ |
| Harris | $14.35 \%$ | $14.35 \%$ |
| Hidalgo | $11.80 \%$ | $11.80 \%$ |
| Montgomery | $11.03 \%$ | $12.27 \%$ |
| Tarrant | $14.30 \%$ | $18.75 \%$ |
| Travis | $14.91 \%$ | $14.91 \%$ |
| Williamson | $13.94 \%$ | $13.94 \%$ |

## City Rate Comparison

| City | Required Rate | Dlected Rate |
| :--- | :---: | :---: |
| Allen | $14.08 \%$ | $14.08 \%$ |
| Frisco | $14.29 \%$ | $14.29 \%$ |
| McKinney | $15.43 \%$ | $15.43 \%$ |
| Plano | $17.32 \%$ | $17.32 \%$ |
| Richardson | $14.58 \%$ | $14.58 \%$ |
| Wylie | $15.08 \%$ | $15.08 \%$ |

## Employer Contributions

| Calendar Year | Total Employer Deposits | Contributing Bmployees | Cost Per Employee |
| :---: | :---: | :---: | :---: |
| 2007 | \$10,027,538 | 1747 | \$5,740 |
| 2008 | \$10,431,480 | 1809 | \$5,766 |
| $\begin{gathered} 2009 \\ \text { Standard Payment } \\ \text { Lump Sum Payment } \end{gathered}$ | $\begin{array}{r} \$ 11,642,578 \\ \$ 1,130,000 \end{array}$ | 1786 | $\begin{array}{r} \$ 6,519 \\ \$ 633 \end{array}$ |
| $2010$ <br> Standard Payment Lump Sum Payment | $\begin{gathered} \$ 11,770,220 \\ \$ 5,000,000 \end{gathered}$ | 1755 | $\begin{aligned} & \$ 6,707 \\ & \$ 2,849 \end{aligned}$ |
| $2011$ <br> Standard Payment Lump Sum Payment | $\begin{aligned} & \$ 11,699,770 \\ & \$ 35,500,000 \end{aligned}$ | 1790 | $\begin{array}{r} \$ 6,536 \\ \$ 19,832 \end{array}$ |
| 2012 <br> Standard Payment Lump Sum Payment | $\begin{aligned} & \$ 6,702,402 \\ & \$ 2,045,000 \end{aligned}$ | 1811 | $\begin{aligned} & \$ 3,701 \\ & \$ 1,129 \end{aligned}$ |
| 2013 <br> Standard Payment Lump Sum Payment | $\begin{gathered} \$ 7,437,259 \\ \$ 11,608,062 \end{gathered}$ | 1824 | $\begin{aligned} & \$ 4,077 \\ & \$ 6,364 \end{aligned}$ |
| 2014 | \$7,222,299 | 1848 | \$3,908 |
| 2015 | \$7,368,276 | 1854 | \$3,974 |
| 2016 | \$7,652,829 | 1898 | \$3,905 |
| Total 2007-2016 | \$147,237,713 | 1,812 | \$81,257 |

## Unfunded Liability Update

$>$ Currently there is no unfunded liability using the 5 year asset recognition method.
$>$ As of December 2016, our plan has a reserve of $\$ 4,076,091$, which is a funded ratio of $100.8 \%$.
> Gains or losses that are smoothed are not reflected in the overfunded/unfunded liability. If an immediate asset recognition method were used instead of a delayed asset recognition the unfunded liability would be $\$ 22,292,175$, which is a funded ratio of $95.5 \%$.
$>$ The minimum required contribution rate for 2018 is $6.77 \%$.
> TCDRS did not reach their investment return goal of 8\% for 2016. Actuarial gains and losses are smoothed over 5 years and will be recognized over time.

## Unfunded Liability History - 5 Year Asset Recognition Method

| Calendar <br> Year End | Budget <br> Year | Unfunded Liability | Funded Percentage | Notes |
| :---: | :---: | :---: | :---: | :---: |
| 2007 | 2009 | \$24,873,034 | 88.2\% |  |
| 2008 | 2010 | \$41,594,399 | 82.0\% |  |
| Made a lump sum payment of \$1,130,000 in October 2009 |  |  |  |  |
| 2009 | 2011 | \$40,273,716 | 84.5\% | before reduced match |
| 2009 | 2011 | \$36,309,269 | 85.8\% | with reduced match |
| Made a lump sum payment of \$5 million in October 2010 |  |  |  |  |
| 2010 | 2012 | \$34,553,355 | 87.5\% |  |
| Made a lump sum payment of \$35.5 million in October 2011 |  |  |  |  |
| 2011 | 2013 | \$ 2,044,817 | 99.0\% |  |
| Made a lump sum payment of \$2,045,000 in October 2012 |  |  |  |  |
| 2012 | 2014 | \$ 2,794,438 | 99.1\% |  |
| Made a lump sum payment of \$11,608,062 in November 2013 |  |  |  |  |
| 2013 | 2015 | $(\$ 14,704,583)$ | 104.5\% |  |
| 2014 | 2016 | $(\$ 21,504,628)$ | 106.2\% |  |
| 2015 | 2017 | (\$11,689,647) | 103.1\% |  |
| 2016 | 2018 | $(\$ 4,076,091)$ | 100.8\% | 16 |

## Unfunded Liability

| Actual Overfunded Liability as of 12/31/2015 | $\$ 11,690,000$ |
| :--- | :---: | :---: |
| Adjustment Due to Decrease in Discount Period (formerly notated as <br> interest) <br> Scheduled OAAL Drawdown <br> Recognition of Actuarial Asset Gains and Losses for 2012-2016 (using the <br> five-year recognition method) <br> Gain Due to Additional Employer Contributions (Elected Rate greater than <br> Required Rate) <br> Loss due to Change in Assumptions and Methods | $(\$ 1,248,000)$ |
| Gain Due to Greater than Expected Terminations and Withdrawals | $(\$ 11,370,000)$ |
| Gain due to Greater than Expected Retirement (includes disability) | $\$ 2,121,000$ |
| Gain due to Greater than Expected Retiree Mortality | $(\$ 590,000)$ |
| Net Actuarial Losses from All Other Sources (retirement, death, individual <br> salary increases, payroll growth, disability, etc.) | $\$ 956,000$ |
| Actual Overfunded Liability as of 12/31/2016 | $\$ 250,000$ |

## GASB Statement 68

$>$ Requires Collin County to report TCDRS pension liability/assets on the CAFR.
$>$ Effective for plan year beginning January 1, 2015.
$>$ Reporting requirements do not change how TCDRS plan funding is calculated.
> Automatic COLAs increase the calculated rate of funding, as they assume annual COLAs for all plan participants continuously into the future and require funding of this liability to be reported on the CAFR.
$>$ Any significant volatility experienced in pension liability will be reflected on the CAFR.

## Cost of Living Adjustment (COLA)

$>$ The TCDRS retirement benefit is a fixed benefit payment.
$>$ The costs of goods and services, such as health care expenses, go up each year due to inflation.
> A Cost of Living Adjustment (COLA) restores some of the purchasing power that the benefit loses over time.
$>$ Electing a COLA is only effective for one plan year and is reassessed on a year to year basis. Court determines the cost of living increase each year. There are three options:
> Flat Rate COLA: Flat percentage increase is applied to all retiree benefits.
> CPI-based COLA: Based on how much inflation has occurred since each employee retired. Adjustments for one retiree could differ from that of another retiree if they retired at different times.
$>$ Nothing

## Retiree COLA

> COLA's are funded over a 15 -year period.
> Collin County has historically adopted various COLA options including:
$>60 \%$ to $100 \%$ of CPI
> $3 \%-8 \%$ Flat Rate
$>$ No COLA
> Last year, a COLA was not approved for plan year 2017.
> The last COLA elected was 60\% of CPI for plan year 2013.
> Collin County is eligible to adopt a COLA for 2018 without incurring a repeating-COLA designation.
> As of the end of December 2016, there were 734 individuals collecting TCDRS benefits, 297 active employees were eligible to retire, and 344 additional employees will be eligible to retire in the next 5 years.

## COLA Options:

> The COLA options for the 2018 plan year are:

| COLA Type | Percentage | Additional <br> Rate (\%) | Dstimated <br> Annual Cost * |
| :---: | :---: | :---: | :---: |
| CPI $-60 \%$ |  | .28 | $\$ 178,824$ |
| CPI $-80 \%$ |  | .50 | $\$ 319,329$ |
| CPI $-100 \%$ |  | .77 | $\$ 491,766$ |
| Flat Rate | $1 \%$ | .11 | $\$ 70,252$ |


| Dstimated <br> Prefunded <br> Cost** |
| :---: |
| $\$ 4,597,694$ |
| $\$ 7,253,812$ |
| $\$ 10,131,874$ |
| $\$ 1,923,627$ |

*Based on 2016 Total Gross Wages
** Prefunded based on a 15-year amortization period
$>$ CPI can be in $10 \%$ increments.
$>$ The additional rates are added to the required minimum rate of $6.77 \%$ for a total percent applied to all payroll dollars. If COLA is prefunded, additional rates are not applied.
> The actual amount received by the retiree will vary.
$>$ If a COLA is elected this year, it will not be assumed that COLAs will continue to be adopted in future years.

## Court Determination Budget Information

$>$ Employer contribution rate to remain at 8\%.
$>$ Determination of any retiree COLA.

