## 2016 INPRS UPDATE

# Indiana State Budget Committee December 7, 2016 

Steve Russo<br>Executive Director

## About INPRS

## With approximately \$30B in assets, INPRS serves the retirement needs of approximately 460,000 members and more than 1,200 public employers

- Nine Retirement Funds
- PERF
[. TRF Pre- ‘96
- TRF'96
- '77 Police and Fire
- Judges
- Excise Police, Gaming Agents and Conservation Officers
] Prosecuting Attorneys
L Legislators Defined Benefit
- Legislators Defined Contribution
- Three Non-Retirement Funds
- Pension Relief
- Public Safety Officers' Special Death Benefit Fund
- State Employees' Death Benefit Fund


## Agenda

- General Update
- Employer/Employee Contributions
- Investments
- Liabilities
- Operations
- Teacher Pre-‘96 Plan \& Local Public Safety Pension Relief
- COLAs \& $13^{\text {th }}$ Checks
- National Trends


## INPRS - FY16 in Review

Despite a second straight year of market underperformance, INPRS' managed pension plans remain well funded with no expected increase in 2018 employer contribution rates

- Aggregate funded status of the pre-funded plans remains unchanged at $86 \%$
- Teacher Pre-‘96 Pay-Go plan remains stable
- Less than assumed investment returns were partially offset by more than assumed employer contributions and less than assumed COLAs
- Defined Benefit investment pool 1 year rate of return of $1.2 \%$ versus a $6.75 \%$ assumption
- Employers paid 108\% of the Actuarial Determined Contribution (ADC)
- PERF/TRF one-time check versus a $1 \%$ COLA assumption
- Continued progress towards exemplary customer service and operational excellence


## FY2016 Actual Change In Net Position*

INPRS' Net Assets remained flat from July 1, 2015 to June 30, 2016
Net Assets - June 30, 2015 \$29.9B

| Contributions | $+\$ 2.2 \mathrm{~B}$ |
| :--- | :--- |
| Investment Income | $+\$ 0.3 \mathrm{~B}$ |
| Payments | $-\$ 2.5 \mathrm{~B}$ |

Net Assets - June 30, 2016
\$29.9B

## Contributions - A Year in Review

- INPRS' Funding Policy establishes adequate contribution rates that seek appropriate levels of stability
- At least the amount of the Actuarial Determined Contribution (ADC)
- Not less than the prior year's rate until $100 \%$ funded
- Collected $\mathbf{\$ 2} \mathbf{2 B}$ in pension plan contributions
- \$ 923M Employer contributions paid as a \% of actual payroll
- $\$ 878 \mathrm{M}$ General Fund Appropriations
- $\$ 328 \mathrm{M}$ Member Contributions
- $\$ 59 \mathrm{M}$ Soft Freeze Employer Payments
- \$ 42M Other
- Employers paid 108\% of the Actuarial Determined Contribution (ADC)
- 2016 HEA 1001 appropriated \$29.5M to pay the estimated cost of the FY17 13 ${ }^{\text {th }}$ check for PERF State, Teacher Pre-' 96 , and EG\&C retirees


## Pension Funding Sources FY2016 - FY2019

| \$ in Millions |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fund | FY2016 <br> General Fund <br> Appropriation | Other ${ }^{3}$ | FY2017 For General Fund Appropriation | cast ${ }^{4}$ <br> Other ${ }^{3}$ | FY2018 Fo General Fund Appropriation | cast ${ }^{4}$ <br> Other ${ }^{3}$ | FY2019 For <br> General Fund Appropriation | cast ${ }^{4}$ <br> Other ${ }^{3}$ |
| PERF ${ }^{1}$ |  | \$766.1 |  | \$714.7 |  | \$714.0 |  | \$716.0 |
| - Pre-Funded 13th Check ${ }^{2}$ | \$8.7 |  |  |  |  |  |  |  |
| TRF - Pre-1996 Account | \$816.5 | \$66.5 | \$841.0 | \$64.3 | \$866.2 | \$61.7 | \$892.2 | \$59.1 |
| - Pre-Funded 13th Check ${ }^{2}$ | \$41.0 |  |  |  |  |  |  |  |
| TRF-1996 Account |  | \$304.1 |  | \$345.9 |  | \$368.3 |  | \$390.5 |
| 1977 Fund |  | \$196.0 |  | \$193.4 |  | \$189.0 |  | \$193.3 |
| JRS | \$9.8 | \$10.2 | \$9.7 | \$10.1 | \$8.0 | \$10.2 | \$8.9 | \$10.2 |
| EG\&C Plan |  | \$6.3 |  | \$6.8 |  | \$6.5 |  | \$6.6 |
| - Pre-Funded 13th Check ${ }^{2}$ | \$0.1 |  |  |  |  |  |  |  |
| PARF | \$1.4 | \$1.3 | \$1.5 | \$1.3 | \$2.7 | \$1.4 | \$2.9 | \$1.4 |
| LEDB \& LEDC | \$0.1 | \$1.8 | \$0.1 | \$1.8 | \$0.2 | \$1.8 | \$0.3 | \$1.8 |
| Sub-Total | \$877.6 | \$1,352.3 | \$852.3 | \$1,338.3 | \$877.1 | \$1,352.9 | \$904.3 | \$1,378.9 |
| Pension Relief | \$155.0 | \$57.3 | \$160.0 | \$57.2 | \$150.0 | \$57.2 | \$145.0 | \$57.2 |
| Total | \$1,032.6 | \$1,409.6 | \$1,012.3 | \$1,395.5 | \$1,027.1 | \$1,410.1 | \$1,049.3 | \$1,436.1 |

${ }^{1}$ Includes Soft Freeze Payments of \$59.1 Million in FY16.
${ }^{2}$ Includes Pre-Funded 13 Check for FY16 \& FY17.
${ }^{3}$ Other includes member contributions, employer contributions, lottery proceeds, docket \& court fees, cigarette \& alcohol taxes.
${ }^{4}$ Based on the 6/30/2016 Actuarial Valuation. The Other forecast for FY2018 and FY2019 could change.

## Investments - A Year in Review

- INPRS' total market value of assets = \$29.9 billion
- In a continuation of a low return environment, INPRS' defined benefit plan returned $1.2 \%$ in FY16
- The actuarial value of assets is used in calculating the funded ratio and actuarial required contributions. Investment returns are smoothed over 5 years. Better returns in FY14 are dampening lower returns in FY15 and FY16
- Continue to target $6.75 \%$ long-term rate of return assumption; most realistic among state plans
- Synergies of combined PERF/TRF assets continue to reduce fees: Net Present Value Savings = $\$ 370.8 \mathrm{M}$


## INPRS Assets Are a Mix of Defined Benefit and Defined Contribution Monies



## INPRS' Defined Benefit Investment Imperatives

- Achieve a $6.75 \%$ return over the long term
- Achieve the return as efficiently \& effectively as possible
- Always have enough cash on hand to pay benefits


## INPRS' Asset Allocation Process

"The board shall invest its assets with the care, skill, prudence, and diligence that a prudent person acting in a like capacity and familiar with such matters would use in the conduct of an enterprise of a like character with like aims. The board also shall diversify investments in accordance with prudent investment standards"

1) Understand liabilities, cash flows \& profile of employers
2) Understand stakeholders' risk tolerance
3) Analyze various asset allocations vs. INPRS' objectives

- Mean Variance Optimization based on established principles of Modern Portfolio Theory
- Run as many historical scenarios \& stress tests as possible
- Seek input from the best asset allocators across the globe

4) Select target asset allocation \& ranges for asset classes
5) Avoid "knee-jerk" portfolio changes (volatility \& scary headlines are normal)

Diversification means you're always saying "sorry" for something.

## Defined Benefit Target Asset Allocation

## No changes from the asset-liability study in FY15



## Defined Benefit Balance Through Time

## INPRS DB Market Value (As of 6/30/2016)



## Defined Benefit Performance vs. Benchmarks

## Annualized Net of Fee Returns as of 6/30/16



## Annuity Savings Account (ASA) Philosophy

## 1) Keep it simple

Reducing complexity \& number of investment options believed to lead to better outcomes based on research from leading DC experts
2) Keep it cheap

Leverage the size of the Defined Benefit assets to lower the fees across investment options
3) Have a diversified default option

Most members elect to stay invested in the default option through retirement

## Annuity Savings Account (ASA) Fund Allocation

## 2007

- Large Cap Equity Index Fund - International Equity Fund - Guaranteed Fund
- Small/Mid Cap Equity Fund
$\square$ Fixed Income Fund



## Unfunded Liabilities A Year in Review

- No changes in actuarial assumptions in FY16
- Two changes in actuarial methods in FY16
- Amortization periods shortened from 30 years to 20 years for most funds
- 5-year asset smoothing in lieu of 4-year asset smoothing
\$ In Millions

INPRS Unfunded Liability- 6/30/15

Low Investment Return
13th Check vs. COLA - PERF \& TRF
Contributions
Demographics / Other ${ }^{1}$
INPRS Unfunded Liability- 6/30/16
${ }^{1}$ Includes demographic gains/losses, lower COLA in the 1977 Fund and slightly higher COLA for Judges.
416.0
212.2
\$16,079.2

## Funded Status as of June 30, 2016

|  | Actuarial Valuation as of June 30, 2016 |  |  |  | Actuarial Valuation as of June 30, 2015 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Defined Benefit Retirement Plans | Actuarial <br> Accrued <br> Liability | Actuarial <br> Value of Assets | Unfunded Actuarial Accrued Liability | Funded Status | Actuarial <br> Accrued <br> Liability | Actuarial <br> Value of Assets | Unfunded Actuarial Accrued Liability | Funded Status |
| PERF | \$ 18,408.9 | \$ 14,553.0 | 3,855.9 | 79.1\% | \$ 17,980.6 | \$ 14,131.9 | 3,848.7 | 78.6\% |
| TRF 1996 Account | 6,391.8 | 5,865.8 | 526.0 | 91.8\% | 5,905.7 | 5,461.2 | 444.5 | 92.5\% |
| 1977 Fund | 5,039.8 | 5,255.2 | (215.4) | 104.3\% | 4,680.7 | 4,939.3 | (258.6) | 105.5\% |
| Judges | 501.1 | 469.4 | 31.7 | 93.7\% | 468.9 | 447.5 | 21.4 | 95.4\% |
| EG\&C Plan | 138.9 | 118.5 | 20.4 | 85.3\% | 132.8 | 112.8 | 20.0 | 84.9\% |
| PARF | 85.0 | 56.4 | 28.6 | 66.4\% | 77.9 | 54.9 | 23.0 | 70.4\% |
| LEDB Plan | 4.0 | 3.2 | 0.8 | 80.7\% | 4.3 | 3.3 | 1.0 | 77.1\% |
| Aggregate Pre-Funded Plans | \$ 30,569.5 | \$ 26,321.5 | \$ 4,248.0 | 86.1\% | \$ 29,250.9 | \$ 25,150.9 | \$ 4,100.0 | 86.0\% |
| TRF Pre-1996 Account (Pay-As-You-Go) | 16,840.2 | 5,009.0 | 11,831.2 | 29.7\% | 17,017.7 | 5,171.6 | 11,846.1 | 30.4\% |
| Aggregate All INPRS Plans | \$ 47,409.7 | \$ 31,330.5 | \$ 16,079.2 | 66.1\% | \$ 46,268.6 | \$ 30,322.5 | \$ 15,946.1 | 65.5\% |

## INPRS Is Higher In Service \& Lower In Cost Relative To Our Peer Group


$\square \quad$ Est. FY 16
ㅁ FY15

- FY14
- FY13
(C) 2015 CEM Benchmarking Inc.

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## Teachers' Retirement Fund (TRF) Pre-1996 Account Update - PSF Only

- 3\% year-over-year appropriations growth for FY2017 - FY2019

| \$ Millions | Actual <br> FY13 | Actual <br> FY14 | Actual FY15 | Actual FY16 | Forecast ${ }^{1}$ FY17 | Forecast ${ }^{1}$ FY18 | Forecast ${ }^{1}$ FY19 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total: |  |  |  |  |  |  |  |
| Benefit Payments | (\$873.4) | (\$916.7) | (\$972.8) | (\$989.7) | (\$1,042.9) | (\$1,047.3) | (\$1,075.5) |
| General Fund Appropriations | \$747.2 | \$776.3 | \$792.8 | \$816.5 | \$841.0 | \$866.2 | \$892.2 |
| Amount Withdrawn from PSF | (\$126.2) | (\$140.4) | (\$180.0) | (\$173.2) | (\$201.9) | (\$181.1) | (\$183.3) |
| Lottery Transfer | \$30.0 | \$30.0 | \$32.5 | \$30.0 | \$30.0 | \$30.0 | \$30.0 |
| Other Income | \$13.6 | \$3.2 | \$5.8 | \$5.0 | \$2.4 | \$7.2 | \$7.1 |
| Investment Gains / (Losses) | \$142.5 | \$376.8 | \$0.8 | \$34.4 | \$182.3 | \$183.2 | \$185.8 |
| 13th Check Prefunding ${ }^{2}$ | \$19.6 | \$19.3 | \$20.3 | \$41.0 | - | - |  |
| State Excess Reserve Income | \$206.8 | - | - |  | - | - |  |
| Closeout: COLA Reserve Account | \$58.7 | - | - |  | - | - | - |
| PSF Balance | \$2,595.5 | \$2,884.4 | \$2,763.8 | \$2,701.0 | \$2,713.8 | \$2,753.1 | \$2,792.7 |

[^0]${ }^{2}$ 13th Check: FY16-\$20.3M \& FY 17 \$20.7M

## TRF Pre-‘96 Pension Stabilization Fund

Balance as of June 30, 2016 = \$2.7B


## Long Term TRF Pre-'96 Funding Options

- While near term GF appropriations should maintain 3\% growth, the legislature will have options in the future
>Option A - Maintain 3\% appropriations growth until 100\% funded
> Option B - Manage appropriations to maintain positive PSF balance


## Teachers' Retirement Fund (TRF) Pre-'96 Account Forecast - Option A PSF and ASA Annuities*


*Based on the $6 / 30 / 2016$ Valuation, includes both Pension Benefit Payout, PSF Assets and ASA Annuities

## Teachers' Retirement Fund (TRF) Pre-'96 Account Forecast - Option B PSF and ASA Annuities*


*Based on the 6/30/2016 Valuation, includes both Pension Benefit Payout, PSF Assets and ASA Annuities

## Pension Relief

## Established in 1977 to help cities and towns with the costs of legacy police and firefighter retirement plans

$\$$ in millions

| FY2012 <br> Actual | FY2013 <br> Actual | FY2014 <br> Actual | FY2015 <br> Actual | FY2016 <br> Actual | FY2017 <br> Forecast | FY2018 <br> Forecast | FY2019 <br> Forecast |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Additions |  |  |  |  |  |  |  |
| General Fund Appropriation (State) | \$ 180.0 | \$ 145.0 | \$ 175.0 | \$ 155.0 | \$ 160.0 | \$ 150.0 | \$ 145.0 |
| Lottery (State) | 30.0 | 30.0 | 32.5 | 30.0 | 30.0 | 30.0 | 30.0 |
| Cigarette Tax (State) | 24.7 | 23.8 | 23.4 | 23.6 | 23.5 | 23.5 | 23.5 |
| Alcohol Tax (State) | 3.4 | 3.4 | 3.6 | 3.7 | 3.7 | 3.7 | 3.7 |
| Public Deposit Insurance Fund (PDIF) | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Investment Income | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 | 0.1 |
| Total Additions | \$ 238.7 | \$ 202.5 | \$ 234.6 | \$ 212.6 | \$ 217.3 | \$ 207.3 | \$ 202.3 |
| Deductions |  |  |  |  |  |  |  |
| Pension Relief Distributions | \$ 219.8 | \$ 219.4 | \$ 217.7 | \$ 215.8 | \$ 212.4 | \$ 211.3 | \$ 209.5 |
| Death Benefits | 0.3 | 0.3 | 0.6 | 0.0 | 0.3 | 0.3 | 0.3 |
| Other (Local Unit Withdrawals \& Admin. Expenses) | 0.4 | 2.2 | 0.5 | 0.0 | 0.1 | 0.1 | 0.1 |
| Total Deductions | \$ 220.5 | \$ 221.9 | \$ 218.8 | \$ 215.8 | \$ 212.8 | \$ 211.7 | \$ 209.9 |
| Pension Relief Fund Balance $\quad$ \$ 18.4 | \$ 36.6 | \$ 17.2 | \$ 33.0 | \$ 29.8 | \$ 34.3 | \$ 29.9 | \$ 22.3 |
| Memo: Local Unit Balances \$ 4.5 | \$ 4.2 | \$ 2.1 | \$ 1.6 | \$ 1.7 | \$ 1.6 | \$ 1.5 | \$ 1.5 |

## PERF / TRF COLAs \& $13^{\text {th }}$ Checks

- COLAs are not free! (a one-time 1\% PERF \& TRF COLA = \$195M)
- Increase from $\$ 162 \mathrm{M}$ in FY15 primarily due to members living longer and a higher number of retirees
- " $13^{\text {th }}$ Checks" aren't free either, but are cheaper than COLAs (\$55M)
- Actuaries factor in ad-hoc COLAs based upon historical experience. The actuaries currently assume a 1\% annual COLA. Each 1\% of COLA cumulatively equals
- Approximately $\$ 2.8 \mathrm{~B}$ of PERF/TRF liabilities
- 4.1 percentage point change in funding ratio
- 2.39 and 1.83 percentage points of the PERF and TRF contribution rates respectively
- When the General Assembly grants a COLA / $13^{\text {th }}$ Check, there is a cost to both state and local units of government including schools
- For all but the TRF Pre-‘96 account, COLAs are funded by the employer as part of their contribution rate ( $1 \%$ COLA $=\$ 86.6 \mathrm{M}, 13^{\text {th }}$ Check $=\$ 33.0 \mathrm{M}$ )
- For the TRF Pre-'96 account, COLAs and $13^{\text {th }}$ checks are funded directly from the state general fund ( $1 \%$ COLA $=\$ 108.4 \mathrm{M}, 13^{\text {th }}$ Check $=\$ 21.7 \mathrm{M}$ )


## National Trends

- Funding levels are stabilizing, but experience varies widely among plans
- Assumptions for inflation and investment returns continue to decrease
- Liability growth rates remain low due to historically lower hiring and salary growth
- Costs have risen and will remain high for some plans. State and local government spending for pensions in FY13 was 4.1\% of general spending
- Ranged from 1.6\% to 8.0\%. Indiana was 4.2\%
- The pace of pension reforms has slowed considerably. Five plans implemented reform in FY15 versus a peak of 27 in 2011. Most reforms included higher employee contribution rates and higher retirement ages for new hires.


## APPENDIX

## Overview - Member Demographics

(as of June 30, 2016)

## 462,000+ Members



Members by Status


## Overview-Employer Demographics

(as of June 30, 2016)


## Where does the money come from?

## Indiana Pension Receipts 1993-2012

Employers: 48\%

Investment Earnings: 35\%
Employees: 17\%


Source: National Institute On Retirement Security - Pensionomics 2014

## FY16 INPRS

## Contributions (ADC)

\$ in Thousands

|  | FY2016 (Actual Payroll Based Adj) |  |  |  |  |  | FY2015 (Actual Payroll Based Adj) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Actuarial Determined Contribution (ADC) Adj for Actual Payroll |  |  | GF <br> Appropriation/ Employer/ Other Contributions ${ }^{1}$ |  | Percentage Contributed |  | uarial rmined ribution Adj for I Payroll |  |  | GF <br> ropriation/ mployer/ Other tributions ${ }^{1}$ | Percentage Contributed |
| PERF | \$ | 490,538 |  | \$ | 547,684 | 111.6\% | \$ | 517,717 |  | \$ | 536,203 | 103.6\% |
| TRF 1996 Account | \$ | 180,375 |  | \$ | 215,626 | 119.5\% | \$ | 178,260 |  | \$ | 205,526 | 115.3\% |
| 1977 Fund | \$ | 113,353 |  | \$ | 151,299 | 133.5\% | \$ | 118,881 |  | \$ | 146,384 | 123.1\% |
| Judges | \$ | 17,485 |  | \$ | 16,946 | 96.9\% | \$ | 18,865 |  | \$ | 21,020 | 111.4\% |
| EG\&C Plan | \$ | 4,078 |  | \$ | 5,297 | 129.9\% | \$ | 4,820 |  | \$ | 5,215 | 108.2\% |
| PARF | \$ | 1,381 |  | \$ | 1,440 | 104.3\% | \$ | 1,419 |  | \$ | 1,063 | 74.9\% |
| LEDB | \$ | 138 |  | \$ | 138 | 100.0\% | \$ | 119 |  | \$ | 131 | 110.1\% |
| Aggregate Pre-Funded Plans | \$ | 807,348 |  | \$ | 938,430 | 116.2\% | \$ | 840,081 |  | \$ | 915,542 | 109.0\% |
| TRF Pre-1996 Account (Pay-As-You-Go) | \$ | 851,548 | 2 | \$ | 851,548 | 100.0\% | \$ | 851,427 | 2 | \$ | 851,427 | 100.0\% |
| Aggregate All INPRS Plans | \$ | 1,658,896 |  | \$ | 1,789,978 | 107.9\% | \$ | 1,691,508 |  | \$ | 1,766,969 | 104.5\% |

${ }^{1}$ Excludes member ASA contributions, Soft Freeze Payments and Pre-Funded 13th Check.
${ }^{2}$ TRF Pre-1996 Appropriation is determined by State Statute \& is therefore shown in lieu of ADC.

## 2017 Board Approved Contribution Rates vs. the Actuarial Determined Contribution

\$ In Thousands

Defined Benefit Retirement Plans

2017 Board Approved
Contribution Rates

2017 Actuarially<br>Determined<br>Contribution (ADC)<br>Rates

PERF
State ${ }^{1}$
Political Subdivision ${ }^{2}$
TRF 1996 Account ${ }^{1}$
11.20\%
10.11\%
11.20\%
9.76\%

1977 Fund ${ }^{2}$
EG\&C Plan ${ }^{2}$
Judges ${ }^{1}$ - Appropriation*
PARF ${ }^{1}$ - Appropriation
LEDB ${ }^{1}$ - Appropriation
TRF Pre-1996 Account ${ }^{1}$ - Appropriation
7.50\%
6.57\%
$17.50 \% \quad 8.54 \%$
20.75\% 13.93\%

TRF Pre-1996 Account - Appropriation
\$16,824
\$13,324
${ }^{1}$ Approved Funding Rates become effective July 1st, 2016
${ }^{2}$ Approved Funding Rates become effective January 1st, 2017

* Includes Court Docket Fees of $\$ 7,153$


## INPRS' Contribution Sources - FY 2016

## 107.9\% of Actuarial Determined Contributions (ADC) Paid in FY16



## INPRS' Contribution Sources - FY 2016




EMPLOYER
CONTRIBUTIONS

MEMBER
CONTRIBUTIONS


EMPLOYER CONTRIBUTIONS

GENERAL FUND APPROPRIATION

## Purposes of the Asset Classes Outside of Stocks \& Bonds

## Private Equity

 invested companies).To provide attractive risk-adjusted returns by producing stable Real Estate through various strategies (e.g. operational improvements to the income and preserving capital. It also serves as a diversifier and

To provide risk-adjusted returns in excess of public equity markets protection against inflation in certain environments.

Absolute Return

Commodities

To provide unique, diversifying return streams and reduce volatility by utilizing strategies that are less constrained.

> linked to goods / inputs.

To provide protection when inflation is higher than expected and

## Asset Allocation \& Performance As of 6/30/16



| Public <br> Equity | Private <br> Equity | Fixed Income <br> (Ex Inflation- <br> Linked) | Fixed Income <br> (Inflation- <br> Linked) | Commodities | Real <br> Estate | Absolute <br> Return | Risk <br> Parity |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Year <br> Return | $-4.31 \%$ | $6.81 \%$ | $8.94 \%$ | $5.36 \%$ | $-19.61 \%$ | $8.09 \%$ | $-2.87 \%$ | $1.69 \%$ |
| 3 Year <br> Return | $6.27 \%$ | $12.33 \%$ | $5.80 \%$ | $3.51 \%$ | $-14.20 \%$ | $9.64 \%$ | $3.61 \%$ | $4.75 \%$ |
| 5 Year <br> Return | $5.88 \%$ | $12.13 \%$ | $4.89 \%$ | $3.50 \%$ | $-11.82 \%$ | $10.33 \%$ | $2.97 \%$ |  |
| 10 Year <br> Return |  | $9.42 \%$ | $5.97 \%$ | $5.27 \%$ |  | $5.61 \%$ | $3.09 \%$ |  |

## Defined Benefit Performance vs. 6.75\% Objective



## INPRS' Split Between Active \& Passive Portfolios

INPRS will conduct a review of active/passive exposures during FY17


## INPRS DB "Value Add" <br> July 2012 - July 2016

INPRS Net of Fees Cumulative Excess Returns over the Target Index
■ Cumulative Asset Allocation Value Add ■ Cumulative Manager Selection Value Add


# FY16 Defined Benefit Investment Management \& Performance Fees ${ }^{1}$ 

### 0.64\% of INPRS' Total DB Market Value ${ }^{2}$

\$11.0M Passive Fees<br>$+\quad \$ 34.5 \mathrm{M}$ Active Mgmt. + Performance Fees in Public Asset Classes ${ }^{3}$<br>$+\$ 110.8 \mathrm{M}$ Alternative Asset Class Mgmt. + Performance Fees ${ }^{4}$<br>$=\$ 156.3 \mathrm{M}$ Total INPRS Investment Mgmt. + Performance Fees

CEM Benchmarking, an industry-leader in evaluating the efficiency of public pensions, analyzed INPRS' CY14 investment management fees.
$\checkmark$ INPRS' fees were slightly lower than peers after adjusting for asset allocation differences between plans
$\checkmark \quad$ INPRS outperformed its benchmark more than peers (net of all fees) \& added \$291M of value to the plan
${ }^{2}$ Based on average market values of the individual portfolios throughout the year
${ }^{3}$ Includes performance fees for Public Equity and Fixed Income asset classes.
${ }^{4}$ Includes performance fees for Absolute Return asset class.

## Alternative Investments

Although more expensive than merely investing in public markets, alternative investments ${ }^{1}$ have had two positive results:

INPRS' total returns have been higher than they would have been without alternative investments ${ }^{2}$...

10 yr . Cumulative Returns (Net of Fees)

...and INPRS' total volatility has been lower because of them.


## INPRS' Return Projections

|  | INPRS' <br> Target Weight $^{1}$ | Projected 10-yr Returns² <br> (June 30, 2016) |
| :--- | :---: | :---: |
| U.S. Inflation |  | $2.0 \%$ |
| U.S. Large Cap Stock | $10.3 \%$ | $5.9 \%$ |
| U.S. Small Cap Stock | $0.9 \%$ | $5.2 \%$ |
| Int'I Developed Mkt Stock | $8.4 \%$ | $9.2 \%$ |
| Emerging Mkt Stock | $2.4 \%$ | $11.3 \%$ |
| Private Equity | $10.0 \%$ | $8.2 \%$ |
| Fixed Income | $24.0 \%$ | $5.2 \%$ |
| Inflation-Linked Bonds (TIPS) | $7.0 \%$ | $2.7 \%$ |
| Commodities | $8.0 \%$ | $4.0 \%$ |
| Real Estate | $7.0 \%$ | $4.7 \%$ |
| Hedge Funds | $10.0 \%$ | $6.0 \%$ |
| Risk Parity | $12.0 \%$ | $7.0 \%$ |
| 10-yr Projected Return |  | $\mathbf{6 . 6 0 \%}$ |
| 30-yr Projected Return |  | $\mathbf{6 . 5 7 - 6 . 8 7 \%}$ |

## ASA Performance (Net of Fees) As of June 30, 2016

|  | Market Value (\$MM) | \% of ASA | 1 Year | 3 Year | 5 Year ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Large Cap Equity Index Fund | 826 | 16.1 | 3.99 | 11.64 | 12.09 |
| S\&P 500 Index |  |  | 3.99 | 11.66 | 12.10 |
| Small/Mid Cap Equity Fund | 582 | 11.3 | -4.82 | 7.97 | 8.84 |
| Russell Small Cap Completeness Index |  |  | -5.22 | 8.59 | 9.34 |
| International Equity Fund | 181 | 3.5 | -8.94 | 2.44 | 0.94 |
| MSCI ACWI ex US |  |  | -10.24 | 1.16 | 0.10 |
| Fixed Income Fund | 178 | 3.5 | 5.35 | 3.95 | 4.06 |
| Barclays Aggregate |  |  | 6.00 | 4.06 | 3.76 |
| Inflation Linked Fixed Income Fund | 34 | 0.7 | 3.55 | 2.03 | 2.53 |
| Barclays US TIPS Index |  |  | 4.35 | 2.31 | 2.63 |
| Stable Value Fund ${ }^{2}$ | 1 | 0.0 | 1.42 | 2.18 | 2.48 |
| Citi 3 Month T-Bill Index |  |  | 0.14 | 0.07 | 0.06 |
| Money Market Fund | 23 | 0.5 | 0.29 | 0.15 | 0.14 |
| Citi 3 Month T-Bill Index |  |  | 0.14 | 0.07 | 0.06 |
| Guaranteed Fund ${ }^{3}$ | 2874 | 56.0 | 1.92 | 1.70 | 1.72 |
| Payout Rate |  |  | 0.46 | 0.35 | 0.61 |
| Consolidated DB Assets ${ }^{4}$ | 9 | 0.2 | 0.31 | 4.30 | 3.96 |
| Combined PERF TRF BM |  |  | 1.43 | 4.63 | 4.29 |
| Target Date Funds ${ }^{5}$ | 426 | 8.3 |  |  |  |
| TOTAL ASA ASSETS ${ }^{6}$ | 5,134 | 100.0 |  |  |  |

${ }^{1}$ All returns are hypothetical composite returns, with the exception of the Stable Value Fund and Consolidated DB Assets, which are actual. ${ }^{2}$ Only available as a stand-alone option in the ASA only and LEDC plans, but is a component of the target date funds. ${ }^{3}$ Guaranteed Fund assets are invested in short duration fixed income. ${ }^{4}$ Only available in the LEDC plan. ${ }^{5}$ Returns and indices are on the Target Date Funds Performance slide. ${ }^{6}$ Total assets in the PERF, TRF and LEDC plans.

## Target Date Funds Performance (Net of Fees) As of June 30, $2016{ }^{1}$

|  | Market Value (\$MM) | \% of Target <br> Date Funds | 1 Year | 3 Year | 5 Year |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2060 Fund | 2 | 0.4 | -1.12 | 5.65 | 5.50 |
| 2060 Fund Index |  |  | -1.55 | 5.19 | 4.90 |
| 2055 Fund | 51 | 11.9 | -1.14 | 5.61 | 5.18 |
| 2055 Fund Index |  |  | -1.55 | 5.18 | 4.81 |
| 2050 Fund | 56 | 13.1 | -1.14 | 5.61 | 5.18 |
| 2050 Fund Index |  |  | -1.55 | 5.18 | 4.81 |
| 2045 Fund | 39 | 9.2 | -1.14 | 5.61 | 5.18 |
| 2045 Fund Index |  |  | -1.55 | 5.18 | 4.81 |
| 2040 Fund | 40 | 9.4 | -1.16 | 5.60 | 5.17 |
| 2040 Fund Index |  |  | -1.55 | 5.18 | 4.81 |
| 2035 Fund | 47 | 11.1 | -0.74 | 5.65 | 5.18 |
| 2035 Fund Index |  |  | -1.02 | 5.28 | 4.86 |
| 2030 Fund | 48 | 11.3 | 1.08 | 5.52 | 5.00 |
| 2030 Fund Index |  |  | 1.10 | 5.28 | 4.75 |
| 2025 Fund | 57 | 13.5 | 2.15 | 4.86 | 4.61 |
| 2025 Fund Index |  |  | 2.30 | 4.64 | 4.32 |
| 2020 Fund | 61 | 14.2 | 2.55 | 4.16 | 4.14 |
| 2020 Fund Index |  |  | 2.66 | 3.85 | 3.71 |
| Retirement Fund | 25 | 5.8 | 3.03 | 3.28 | 3.46 |
| Retirement Fund Index |  |  | 3.07 | 2.78 | 2.73 |
| TOTAL TARGET DATE FUNDS | 426 | 100 |  |  |  |

## FY16 Strategic Plan Accomplishments

- Achieved 56 of 58 (97\%) of our annual key operational requirements
- Missed our 6.75\% Defined Benefit pool rate of return on a 1,3, 5 and 10-year basis
- Monthly financial closings completed by the $12^{\text {th }}$ business day of each month were not consistently achieved
- Completed or on track with 89\% of 47 long-term strategic objectives
- Leveraged quality management tools to improved member experiences
- Improved call center performance
- Improved website satisfaction
- Increased use of member online tools
- Increased member awareness of ASA
- Implemented ASA Only for PERF local units
- Reached agreements with PERF "soft freeze" employers
- Improved software quality assurance capabilities
- Improved IT security and disaster recovery capabilities
- Recordkeeping and ASA annuities transition program is underway


## FY 2017 Top 5 Strategic Objectives

1. Complete implementation of FY 2015 and FY 2016 Legislative changes to INPRS systems to maintain compliance

- Soft Freeze
- Debit Cards
- Elimination of Guaranteed Fund, introduction of Stable Value Fund

2. Successfully execute an Integrated Vendor Business Model that optimizes service (Custodian - Benefit Payroll - ASA Record Keeping - ASA Annuity- Call Center- Website)
3. Move the ASA portion of the defined benefit plans to a defined contribution plan, ensuring compliance with IRS regulations and determining cost allocation split
4. Evaluate implementation of an internal investment management program
5. Enhance Data Integrity and Security

## ASA Only Plan For PERF Political Subdivisions

- 2014 HEA1466 created an optional ASA Only Plan for PERF political subdivisions (PSDs)
- PSDs are able to offer ASA Only, Hybrid, or a choice between ASA Only and Hybrid to new hires
- The ASA Only Plan provides PERF PSDs control over their contribution rates
- A mandatory 3\% contribution must be paid by the employer, employee or shared by the employer and employee (same as today)
- Employer is also required to pay the supplemental rate which funds the unfunded liability in the PERF Hybrid plan (7.2\% effective 1/1/17). Employers pay this amount to INPRS, not the employee's ASA
- New employers who have never offered PERF Hybrid, but who choose to offer only the ASA Only plan will not have to pay the supplemental rate
- Employers can pay a supplemental contribution into an employee's ASA from 0 percent to the normal cost percent (4.0\% effective 1/1/17)
- 5 employers enrolled in the ASA Only Plan as of July 1, 2016
- 2 employers are only offering ASA Only to new hires
- 3 employers are offering new hires a choice between PERF ASA Only and PERF Hybrid
- 155 employers have attended informational seminars


# FY16 Year End Performance and Year Over FY 15 Trend <br> <br> Portfolio Performance <br> <br> Portfolio Performance <br> Customer and Financial 

DB Rate of Return

DB Sharpe Ratio

Fees Below Peer Median

ASA - Rate of Return
Process
Call Center Performance

Cash Distributions on Time





Learning/Growth \& Risk
Employee Engagement

Audit Findings

Compliance


| Funded Status -- Prefunded |
| :---: |
| plans |
| Actuarial Determined |
| Contributions |

Employer Contributions
Cost per Member
Performance to Budget
Customer Complaints
Benchmark Service Score
Dissatisfaction Red Flags

## COLAs

Ad-Hoc ..... Auto
PERF ..... TRF
${ }^{\prime} 77$ Police \& Fire
Judges
Excise, Gaming \& Conservation Officers
Prosecuting Attorneys
Legislators DBLegislators DC
N/A

## Auto COLA History

| 1977 Police and Fire (CPI, Max. 3\%) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/1/2006 | 7/1/2007 | 7/1/2008 | 7/1/2009 | 7/1/2010 | 7/1/2011 | 7/1/2012 | 7/1/2013 | 7/1/2014 | 7/1/2015 | 7/1/2016 |
| 3.0\% | 2.4\% | 3.0\% | 0.0\% | 2.4\% | 2.1\% | 2.8\% | 1.7\% | 1.4\% | 0.0\% | 1.1\% |
| Judges '77 System (Whenever salary of the position changes) |  |  |  |  |  |  |  |  |  |  |
| 7/1/2006 | 7/1/2007 | 7/1/2008 | 7/1/2009 | 7/1/2010 | 7/1/2011 | 7/1/2012 | 7/1/2013 | 7/1/2014 | 7/1/2015 | 7/1/2016 |
| 2.00\% | 7/1-4.0\% | 3.25\% | 0.0\% | 0.0\% | 1.3\% | 2.2\% | 3.1\% | 0.0\% | 2.2\% | 3.1\% |
|  | 12/2-1.5\% |  |  |  |  |  |  |  |  |  |
| Judges '85 System (Ad-Hoc before 2011, same as '77 system after 2010*) |  |  |  |  |  |  |  |  |  |  |
| 7/1/2006 | 7/1/2007 | 7/1/2008 | 7/1/2009 | 7/1/2010 | 7/1/2011 | 7/1/2012 | 7/1/2013 | 7/1/2014 | 7/1/2015 | 7/1/2016 |
| 0.0\% | 0.0\% | 2.0\% | 2.0\% | 0.0\% | 1.3\% | 2.2\% | 3.1\% | 0.0\% | 2.2\% | 3.1\% |

[^1]
# Public Employees' Retirement Fund (PERF) Fund Overview 

As of June 30, 2016

MEMBERSHIP: Full-time employees of the state and political subdivisions that elect to participate

TYPE: Defined Benefit - Hybrid (Defined Benefit + Annuity Savings Account)

FUNDED RATIO: 79.1\%

BENEFITS ${ }^{1}$
Benefit Formula: $1.1 \% \times$ Avg. High 5 Yr. Salary x Yrs. Service (plus ASA)
Vesting: $D B-10$ years, ASA - Immediate
Full Retirement Age: $65 \mathrm{w} / 10$ years service, $60 \mathrm{w} / 15$ years service, 55 - rule of 85
Retiree Benefit (2016): $\$ 9,996 \quad$ (ASAAnnuitized)
Avg. Overall Annual Retiree Benefit (2016): $\$ 9,996$ (ASA Annuitized)

| Actual | Projected Benefit Payments $^{2}$ |  |  |
| :---: | :---: | :---: | :---: |
| $\frac{\text { FY16 }}{} \underline{\$ 787 \mathrm{M}}$ | $\underline{\mathrm{FY17}}$ | $\underline{\mathrm{FY18}}$ | $\underline{\mathrm{FY19}}$ |
| $\$ 878 \mathrm{M}$ | $\$ 924 \mathrm{M}$ |  |  |

FUNDING SOURCES

Member Contribution: $3 \%$ salary to member ASA
General Fund Appropriation: Pre-Funded 13th Check
Soft Freeze Payments
Employer Contribution (State): Board Approved Rate (FY16 $=11.2 \% ;$ FY17 $=11.2 \%$ )
Employer Contribution (Subdivisions): Board Approved Rate (FY16 $=11.1 \% ; F Y 17=11.2 \%$ )

| Actual | Projected Contributions ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: |
| FY16 | FY17 | FY18 | FY19 |
| \$159 M | \$151 M | \$153 M | \$155 M |
| \$ 9 M | - | - | - |
| \$ 59 M | - | - | - |
| \$183 M | \$188 M | \$187 M | \$187 M |
| \$ 365 M | \$ 376 M | \$ 374 M | \$374 M |
| \$775 M | \$715 M | \$714 M | \$716 M |

${ }^{1}$ Actual and Projected Benefit Payments include ASA Annuity payments
${ }^{2}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected benefit payments could change.
${ }^{3}$ Based on the 6/30/2016 Actuarial Valuation. FY18 and FY19 projected contributions could change.

# Teachers' Retirement Fund (TRF) - Pre 1996 Account Fund Overview 

As of June 30, 2016

MEMBERSHIP: Teachers of K12 public schools and certain state universities hired prior to July 1, 1995
TYPE: Defined Benefit - Hybrid (Defined Benefit + Annuity Savings Account)
FUNDED RATIO: ${ }^{\text {' }} 29.7 \%$
UNFUNDED LIABILITY: $\$ 11,831.2 \mathrm{M}$

## benefits ${ }^{1}$

Benefit Formula: 1.1\% x Avg. High 5 Yr. Salary x Yrs. Service (plus ASA)
Vesting: DB-10 years, ASA - Immediate
Full Retirement Age: 65 w/ 10 years service, 60 w/ 15 years service, or 55 with the Rule of 85

| Actual | Projected Benefit Payments $^{2}$ |  |  |
| :---: | :---: | :---: | :---: |
| $\underline{\text { FY16 }}$ | $\underline{\mathrm{FY17}}$ | $\underline{\mathrm{FY} 18}$ | $\underline{\mathrm{FY} 19}$ |
| $\$ 1,118 \mathrm{M}$ | $\$ 1,168 \mathrm{M}$ | $\$ 1,170 \mathrm{M}$ | $\$ 1,196 \mathrm{M}$ |

Avg. Overall Annual Retiree Benefit (2016): $\$ 23,640$ (ASAAnnuitized)

FUNDING SOURCES

Member Contribution: 3\% salary to member ASA
General Fund Appropriation: Pre-96 Pay-as-you-go benefit obligation
General Fund Appropriation: Pre-Funded 13th Check (Includes Fy16 and FY17)
Pension Stabilization Fund: Lottery (Pre-96)
Other: Pre-96 Employer Contribution (AOS, FSP, HEP)

| Actual | Projected Contributions ${ }^{2}$ |  |  |
| :---: | :---: | :---: | :---: |
| FY16 | FY17 | FY18 | FY19 |
| \$ 31 M | \$ 29 M | \$ 27 M | \$ 24 M |
| \$817 M | \$841 M | \$866 M | \$892 M |
| \$ 41 M |  | - | - |
| \$ 30 M | \$ 30 M | \$ 30 M | \$ 30 M |
| \$ 5 M | \$ 5 M | \$ 5 M | \$ 5 M |
| \$ 924 M | \$ 905 M | \$ 928 M | \$ 951 M |

${ }^{1}$ Actual and Projected Benefit Payments include ASAAnnuity payments
${ }^{2}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected benefit payments could change.

# Teachers' Retirement Fund (TRF) - 1996 Account Fund Overview 

## As of June 30, 2016

MEMBERSHIP: Teachers of K12 public schools and certain state universities hired after June 30, 1995
TYPE: Defined Benefit - Hybrid (Defined Benefit + Annuity Savings Account)
FUNDED RATIO: ${ }^{\circ} 91.8 \%$
UNFUNDED LIABILITY: $\$ 526.0 \mathrm{M}$

## BENEFITS ${ }^{1}$

Benefit Formula: 1.1\% x Avg. High 5 Yr. Salary x Yrs. Service (plus ASA)
Vesting: DB-10 years, ASA-Immediate
Full Retirement Age: $65 \mathrm{w} / 10$ years service, $60 \mathrm{w} / 15$ years service, or 55 with the Rule of 85

| Actual | Projected Benefit Payments ${ }^{2}$ |  |  |
| :---: | :---: | :---: | :---: |
| FY16 | FY17 | FY18 | FY19 |
| \$ 100 M | \$ 130 M | \$ 140 M | \$ 154 M | Avg. Overall Annual Retiree Benefit (2016): $\$ 21,264$ (ASA Annuitized)

FUNDING SOURCES

Member Contribution: $3 \%$ salary to member ASA
Employer Contribution: 1996 Account Board Approved Rate (FY16 \& FY17 = 7.5\%)

| Actual | Projected Contributions $^{2}$ |  |  |
| :---: | :---: | :---: | :---: |
| $\underline{\text { FY16 }}$ | $\underline{\text { FY17 }}$ | $\underline{\text { FY18 }}$ | $\underline{\text { FY19 }}$ |
| $\$ 88 \mathrm{M}$ | $\$ 99 \mathrm{M}$ | $\$ 105 \mathrm{M}$ | $\$ 112 \mathrm{M}$ |
| $\underline{\$ 216 \mathrm{M}}$ | $\underline{\$ 247 \mathrm{M}}$ | $\underline{\$ 263 \mathrm{M}}$ | $\underline{\$ 279 \mathrm{M}}$ |
| $\$ 304 \mathrm{M}$ | $\$ 346 \mathrm{M}$ | $\$ 368 \mathrm{M}$ | $\$ 391 \mathrm{M}$ |

${ }^{1}$ Actual and Projected Benefit Payments include ASA Annuity payments
${ }^{2}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected benefit payments as well as FY18 and FY19 projected contributions could change.

# 1977 Police Officers' and Firefighters' Pension and Disability Fund (1977 Fund) Fund Overview 

As of June 30, 2016

MEMBERSHIP: Local full-time police and firefighters hired after April 30,1977
TYPE: Defined Benefit

FUNDED RATIO: 104.3\%
UNFUNDED LIABILITY: $\$ 0 \mathrm{M}$, overfunded by $\$ 215.4 \mathrm{M}$

## BENEFITS

Benefit Formula: 50\% of first class officer salary plus 1\% for each 6 months after 20 years, capped at $12 \%$. Vesting: 20 years
Full Retirement Age: 52 with at least 20 years service

| Actual | Projected Benefit Payments ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: |
| FY16 | FY17 | FY18 | FY19 |
| \$128 M | \$159 M | \$189 M | \$202 M |

Avg. Overall Annual Retiree Benefit (2016): \$26,278

FUNDING SOURCES

Member Contribution: 6\% of first class officer salary (max. 32 years)
Employer Contribution: Board Approved Rate (FY18=17.50\%; FY19 = 17.50\%)

| Actual | Projected Contributions ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: |
| FY16 | FY17 | FY18 | FY19 |
| \$45 M | \$46 M | \$47 M | \$48 M |
| \$151 M | \$147 M | \$142 M | \$145 M |
| \$196 M | \$193 M | \$189 M | \$193 M |

[^2]
# Judges' Retirement System Fund Overview 

## As of June 30, 2016

MEMBERSHIP: Judges and Magistrates of the Supreme Court of the State of Indiana, Court of Appeals, Indiana Tax Court, Circuit Court or County Courts.
TYPE: Defined Benefit - Consists of two plans: 1977 System and the 1985 System
FUNDED RATIO: 93.7\%
UNFUNDED LIABILITY: $\$ 31.7 \mathrm{M}$

## BENEFITS

Benefit Formula: Final Salary x percent factor established in IAC (24\% - 60\%) based on years of service Vesting: 8 years
Full Retirement Age: 65 with at least 8 years service, or age 55 under the Rule of 85

| Actual | Projected Benefit Payments ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: |
| FY16 | FY17 | FY18 | FY19 |
| \$20.9 M | \$27.3 M | \$29.6 M | \$31.6 M |

Avg. Overall Annual Retiree Benefit (2016) \$59,868

## FUNDING SOURCES

Member Contribution: 6\% salary (max. 22 years)
General Fund Appropriation: Actuarially Calculated
Other: Certain docket and court fees

| Actual | Projected Contributions |  |  |
| :---: | :---: | :---: | :---: |
| $\underline{\text { FY16 }}$ | $\underline{\text { FY17 }}$ | $\underline{\mathrm{FY18}}$ | $\underline{\mathrm{FY19}}$ |
| $\$ 3.0 \mathrm{M}$ | $\$ 3.0 \mathrm{M}$ | $\$ 3.1 \mathrm{M}$ | $\$ 3.1 \mathrm{M}$ |
| $\$ 9.8 \mathrm{M}$ | $\$ 9.7 \mathrm{M}$ | $\$ 8.0 \mathrm{M}$ | $\$ 8.9 \mathrm{M}$ |
| $\underline{\$ 7.2 \mathrm{M}}$ | $\underline{\$ 7.1 \mathrm{M}}$ | $\underline{\$ 7.1 \mathrm{M}}$ | $\underline{\$ 7.1 \mathrm{M}}$ |
| $\mathbf{\$ 2 0 . 0 \mathrm { M }}$ | $\mathbf{\$ 1 9 . 8 \mathrm { M }}$ | $\mathbf{\$ 1 8 . 2 \mathrm { M }}$ | $\mathbf{\$ 1 9 . 1 \mathrm { M }}$ |

${ }^{1}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected benefit payments could change.

# State Excise Police, Gaming Agent, Gaming Control Officer, and Conservation Enforcement Officers' Retirement Plan Fund Overview 

As of June 30, 2016

MEMBERSHIP: State Excise Police, Gaming Agents, Gaming Control Officers, and Conservation Enforcement Officers

TYPE: Defined Benefit
FUNDED RATIO: $85.3 \%$ UNFUNDED LIABILITY: $\$ 20.4 \mathrm{M}$

## BENEFITS

Benefit Formula: [(Average high five salary x $25 \%)+(1.67 \% \times$ yrs service beyond 10 years $)$; capped at $75 \%$ Vesting: 15 years
Full Retirement Age: Mandatory @ age 65, at age 55 the Rule of 85 applies, \& age 50 with 25 years of service

| Actual | Projected Benefit Payments $^{1}$ |  |  |
| :---: | :---: | :---: | :---: |
|  | FY16 |  | FY17 |
| $\$ 6.1 \mathrm{M}$ | $\$ 6.7 \mathrm{M}$ | $\$ 7.1 \mathrm{M}$ | $\$ 7.5 \mathrm{M}$ |

Avg. Overall Annual Retiree Benefit (2016): $\$ 25,733$

FUNDING SOURCES

Member Contribution: 4\% of total salary
General Fund Appropriation: Pre-Funded 13th Check
Employer Contribution: Board Approved Rate (FY18 \& FY19 = 20.75\%)

| Actual | Projected Contributions $^{2}$ |  |  |
| :---: | :---: | :---: | :---: |
|  | $\underline{\mathrm{FY} 16}$ | $\underline{\mathrm{FY} 17}$ | $\underline{\mathrm{FY} 18}$ |
| $\$ 1.0 \mathrm{M}$ | $\$ 1.2 \mathrm{M}$ | $\$ 1.1 \mathrm{M}$ | $\$ 1.1 \mathrm{M}$ |
| $\$ .1 \mathrm{M}$ |  | - | - |
| $\$ 5.3 \mathrm{M}$ | $\underline{\$ 5.6 \mathrm{M}}$ | $\underline{\$ 5.4 \mathrm{M}}$ | $\underline{\$ 5.5 \mathrm{M}}$ |
| $\$ 6.4 \mathrm{M}$ | $\$ 6.8 \mathrm{M}$ | $\$ 6.5 \mathrm{M}$ | $\$ 6.6 \mathrm{M}$ |

${ }^{1}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected benefit payments could change.
${ }^{2}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected contributions could change.

# Prosecuting Attorneys' Retirement Fund (PARF) Fund Overview 

As of June 30, 2016

## MEMBERSHIP: Prosecutors or chief deputy prosecutors serving after December 31, 1989, Executive Director or Assistant <br> Executive Director of the Prosecutors Council, or state paid deputy prosecuting attorney hired after June 30, 1995.

TYPE: Defined Benefit

FUNDED RATIO: 66.4\%
UNFUNDED LIABILITY: $\$ 28.6$ M

## BENEFITS

| Benefit Formula: High Salary x percent factor established in IAC (24\%-60\%) based on years of service | Actual <br> FY16 | Projected Benefit Payments ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Vesting: 8 years |  | FY17 | FY18 | FY19 |
| Full Retirement Age: 65 with at least 8 years service, or 55 with the Rule of 85 | \$ 3.5 M | \$ 4.4 M | \$ 4.7 M | \$4.9 M |

Avg. Overall Annual Retiree Benefit (2016): $\$ 25,056$

| Actual | Projected Contributions $^{2}$ |  |  |
| :---: | :---: | :---: | :---: |
|  | $\underline{\mathrm{FY} 16}$ | $\underline{\mathrm{FY} 17}$ | $\underline{\mathrm{FY} 18}$ |
| $\$ 1.3 \mathrm{M}$ | $\$ 1.3 \mathrm{M}$ | $\$ \mathbf{~} 1.4 \mathrm{M}$ | $\$ 1.4 \mathrm{M}$ |
| $\underline{\$ 1.4 \mathrm{M}}$ | $\underline{\$ 1.5 \mathrm{M}}$ | $\underline{\$ 2.7 \mathrm{M}}$ | $\underline{\$ 2.9 \mathrm{M}}$ |
| $\mathbf{\$ 2 . 7 \mathrm { M }}$ | $\$ 2.8 \mathrm{M}$ | $\$ 4.1 \mathrm{M}$ | $\$ 4.3 \mathrm{M}$ |

${ }^{1}$ Based on the 6/30/2015 Actuarial Valuation. FY17, FY18 and FY19 projected benefit payments could change.
${ }^{2}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected Member Contributions could change.

# Legislators' Retirement System Fund Overview 

As of June 30, 2016

MEMBERSHIP: Members of the Indiana General Assembly

TYPE: Defined Benefit - Members serving on April 30, 1989 who elected to participate
Defined Contribution - Members serving on or after April 30, 1989 who elect to participate

FUNDING RATIO: 80.7\%
UNFUNDED LIABILITY: $\$ 0.8 \mathrm{M}$

## BENEFITS

Benefit Formula: Lesser of $\$ 480$ x yrs service before ' 89 or high consecutive three year salary Vesting: 10 years
Full Retirement Age: 65 with at least 10 years service, 55 with the Rule of 85 , or $60 \mathrm{w} / 15$ yrs service

| Actual | Projected Benefit Payments ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: |
| FY16 | FY17 | FY18 | FY19 |
| \$ 0.4 M | \$ 0.4 M | \$ 0.4 M | \$ 0.4 M |

Avg. Overall Annual Retiree Benefit (2016): $\$ 4,919 \quad$ (DB Plan Only)
FUNDING SOURCES
Employer Contribution: State rate for PERF plus 3\% of salary for the DC plan General Fund Appropriation: Actuarially Calculated Contribution for the DB plan

| Actual | Projected Contributions |  |  |
| :---: | :---: | :---: | :---: |
| $\frac{\text { FY16 }}{}$ | $\underline{\mathrm{FY} 17}$ | $\underline{\mathrm{FY} 18}$ | $\underline{\mathrm{FY} 19}$ |
| $\$ 1.8 \mathrm{M}$ | $\$ 1.8 \mathrm{M}$ | $\$ 1.8 \mathrm{M}$ | $\$ 1.8 \mathrm{M}$ |
| $\frac{\$ 0.1 \mathrm{M}}{\$ 1.9 \mathrm{M}}$ | $\underline{\$ 0.1 \mathrm{M}}$ | $\underline{\$ 0.2 \mathrm{M}}$ | $\underline{\$ 0.3 \mathrm{M}}$ |
| $\mathbf{\$ 1 . 9 \mathrm { M }}$ | $\$ 2.0 \mathrm{M}$ | $\$ 2.1 \mathrm{M}$ |  |

${ }^{1}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected benefit payments could change.


[^0]:    ${ }^{1}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 forecast benefit payments could change.

[^1]:    *Only for members who retired after 12/31/09

[^2]:    ${ }^{1}$ Based on the 6/30/2016 Actuarial Valuation. FY17, FY18 and FY19 projected benefit payments as well as FY17, FY18 and FY19 projected contributions could change.

