



2022 INPRS UPDATE

Pension Management Oversight Committee
September 26, 2022

One North Capitol, Suite 001
Indianapolis, IN 46204

(844) GO-INPRS
inprs.in.gov

About INPRS

- ▶ With \$42.5 billion in assets, INPRS serves the retirement needs of 517,000 members and more than 1,300 employers
 - **Eight Defined Benefit Retirement Funds**
 - Public Employees' Defined Benefit Account (PERF DB)
 - Teachers' Pre-1996 Defined Benefit Account (TRF Pre-'96 DB)
 - Teachers' 1996 Defined Benefit Account (TRF '96 DB)
 - 1977 Police Officers' and Firefighters' Retirement Fund ('77 Fund)
 - Prosecuting Attorneys' Retirement Fund (PARF)
 - Judges' Retirement System (JRS)
 - Excise, Gaming and Conservation Officers' Retirement Fund (EG&C)
 - Legislatures' Defined Benefit Fund (LE DB)
 - **Five Defined Contribution Retirement Funds**
 - Public Employees' Defined Contribution Amount (PERF DC)
 - Teachers' Defined Contribution Account (TRF DC)
 - Legislatures' Defined Contribution Fund (LE DC)
 - My Choice: Retirement Savings Plan for Public Employees (PERF MC DC)
 - My Choice: Retirement Saving Plan for Teachers (TRF MC DC)
 - **Two Non-Retirement Funds**
 - Local Public Safety Pension Relief Fund (LPSPR)
 - Special Death Benefit Fund (SDBF)
 - **One OPEB (Other Postemployment Benefits) Fund**
 - Retirement Medical Benefits Account Plan (RMBA)

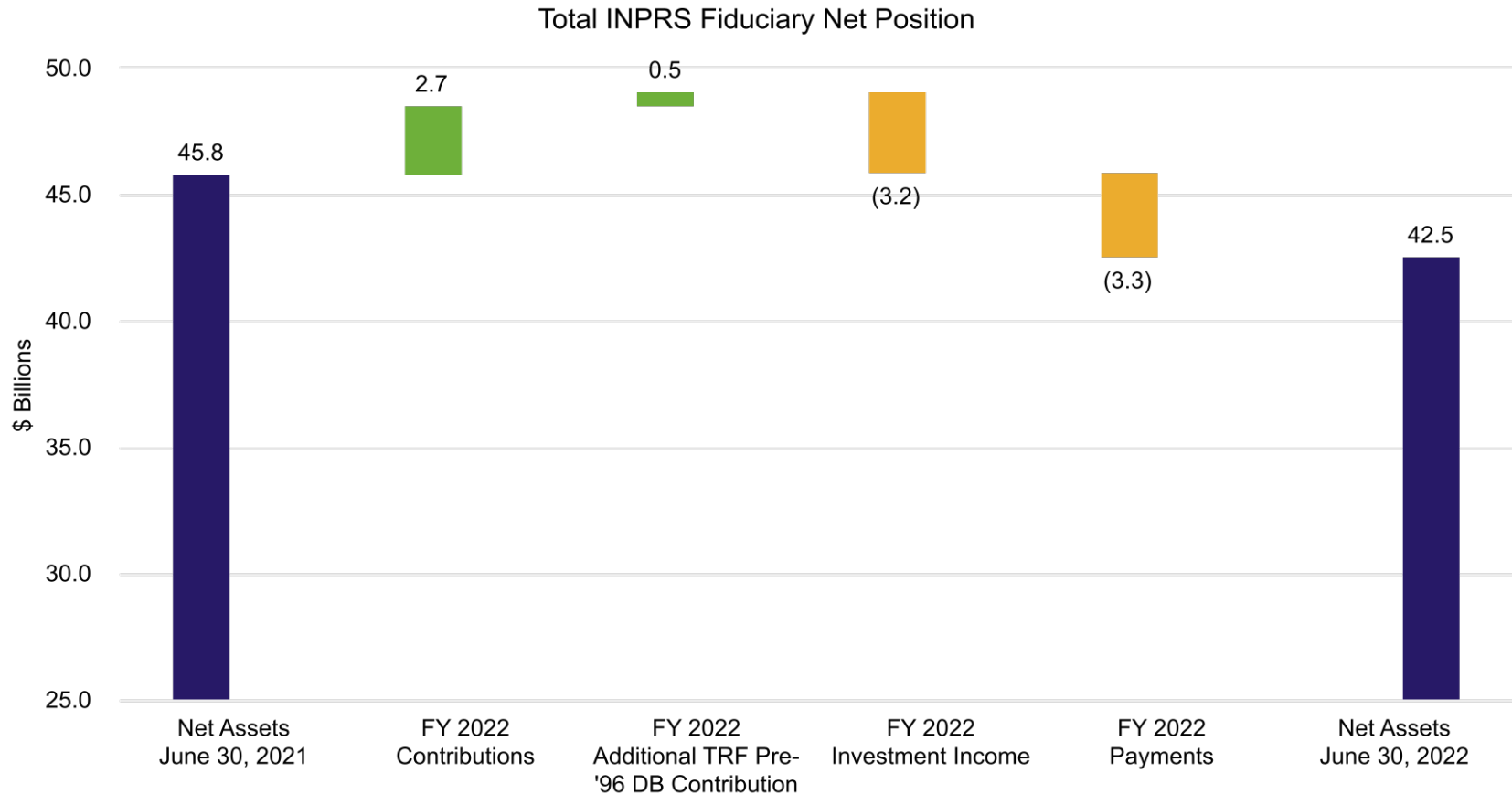


FY 2022 in Review

INPRS's managed pension plans remain well-funded.

- Overall estimated aggregate funded status increased from 71.9% to 74.9%
- Estimated aggregate funded status of the prefunded defined benefit plans increased from 89.0% to 89.7%
 - 2022 investment losses of -6.44% were offset by FY2021 deferred investment gains and higher than assumed employer contributions
 - Preliminary results indicate that PERF, TRF '96, and EG&C contribution rates will remain unchanged
 - The '77 Fund experienced higher than assumed salary increases and is expected to increase its contribution rate from 18.0% to approximately 18.9% starting January 1, 2024
- Teacher Pre-'96 Pay-Go plan improved from significant incremental appropriations in FY22 (\$545M)
 - Funded status increased from 31.7% to 37.5%
 - Additional anticipated appropriation of \$2.5B in FY 2023
 - Potential 100% funded status in 2030
 - \$8.8B in unfunded liabilities

FY22 Change in Net Position (\$ Billions)



Unfunded Liability Review

- ▶ Actuarial accrued liability experience losses are mostly due to higher than assumed increases in salary

Analysis of Financial Experience¹

(dollars in millions)

	FY 2022	
Unfunded Actuarial Accrued Liability (UAAL): Beginning of Year	\$	13,482.0
Normal Cost and Interest, less Expected Contributions		(417.5)
Expected UAAL at End of Year		13,064.5
Actuarial Value of Assets Experience		(312.3)
Contribution Experience and Other		(698.9)
Actuarial Accrued Liabilities Experience		365.2
Actuarial Assumption & Methodology Changes		—
Plan Provision Changes		—
Total UAAL (Gain) / Loss		(646.0)
Actual UAAL at End of Year	\$	12,418.5



1. Results are preliminary and subject to change

Funded Status as of June 30, 2022

Indiana Public Retirement System (INPRS)¹

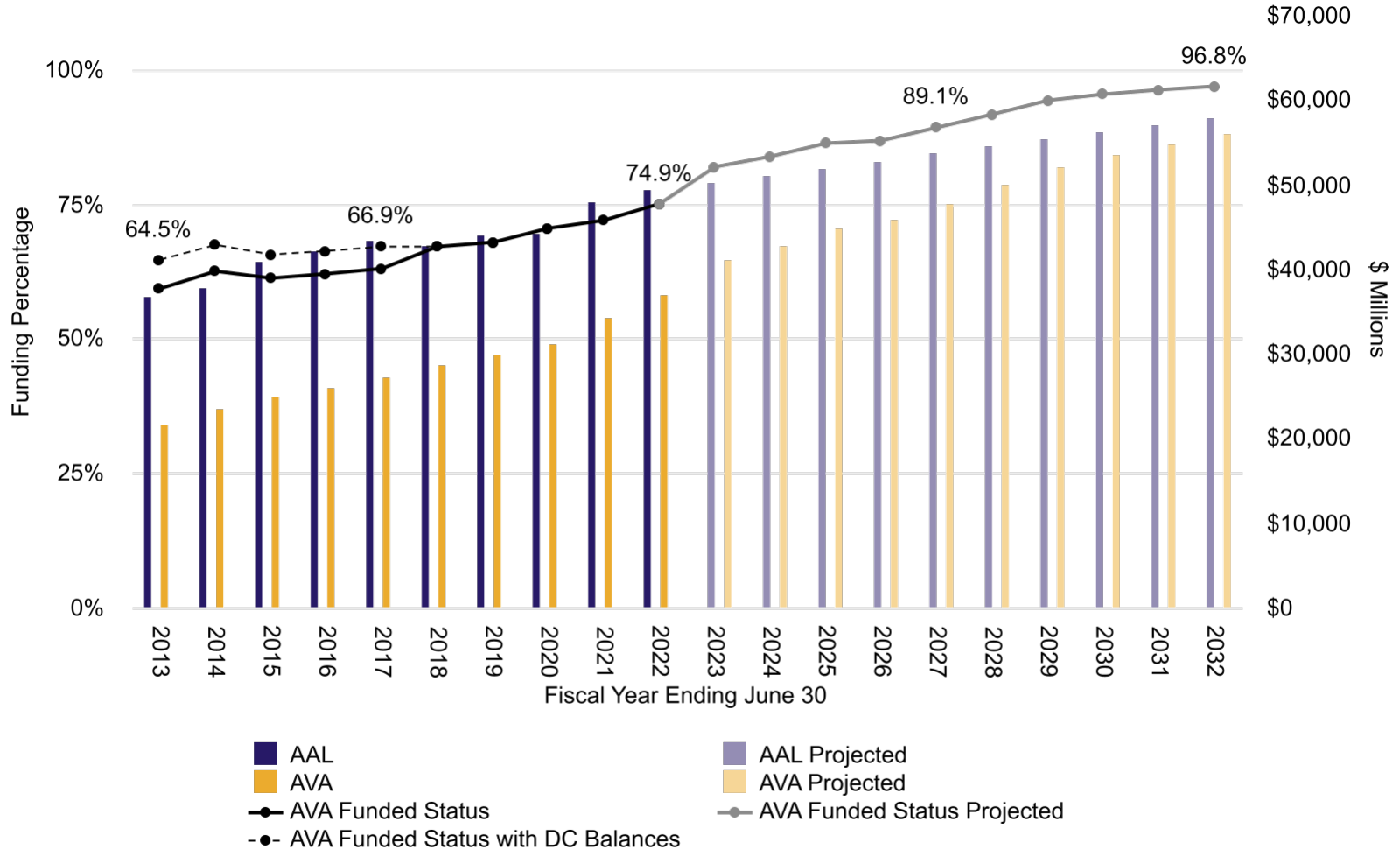
(dollars in thousands)

Pre-Funded Defined Benefit Retirement Plans	Actuarial Valuation as of June 30, 2022				Actuarial Valuation as of June 30, 2021			
	Actuarial Accrued Liability	Actuarial Value of Assets	Unfunded Actuarial Accrued Liability	Actuarial Funded Status	Actuarial Accrued Liability	Actuarial Value of Assets	Unfunded Actuarial Accrued Liability	Actuarial Funded Status
PERF DB	\$18,002,194	\$15,281,273	\$2,720,921	84.9%	\$17,563,157	\$14,577,352	\$2,985,805	83.0%
TRF '96 DB	8,154,991	7,719,119	435,872	94.7%	7,517,702	7,162,958	354,744	95.3%
'77 Fund	8,249,493	7,847,136	402,357	95.1%	7,598,774	7,331,655	267,119	96.5%
JRS	676,859	651,648	25,211	96.3%	642,172	615,755	26,417	95.9%
EG&C	187,505	177,108	10,397	94.5%	180,848	165,179	15,669	91.3%
PARF	122,474	82,241	40,233	67.1%	117,023	76,897	40,126	65.7%
LE DB	2,834	3,185	(351)	112.4%	3,034	3,137	(103)	103.4%
Total Pre-Funded DB Retirement Plans	\$35,396,350	\$31,761,710	\$3,634,640	89.7%	\$33,622,710	\$29,932,933	\$3,689,777	89.0%
TRF Pre-'96 DB	14,059,122	5,275,288	8,783,834	37.5%	14,338,188	4,546,007	9,792,181	31.7%
Total DB Retirement Plans	\$49,455,472	\$37,036,998	\$12,418,474	74.9%	\$47,960,898	\$34,478,940	\$13,481,958	71.9%



1. Results are preliminary and subject to change

Funding Progress

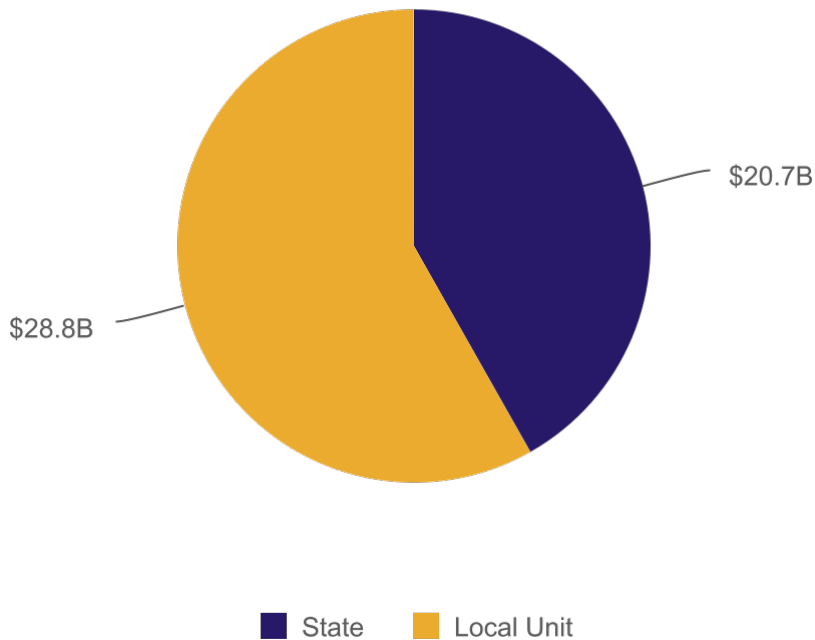


Based on preliminary actuarial results as of June 30, 2022. AAL is Actuarial Accrued Liability. AVA is Actuarial value of Assets. DC Balances (formerly ASA Balances) were moved to their own separate fund starting January 1, 2018.

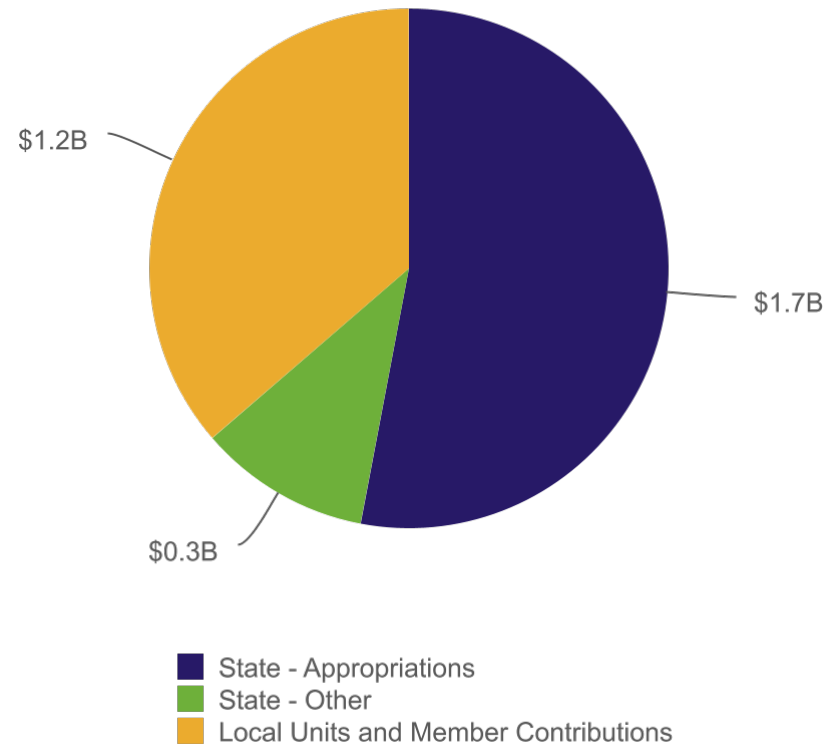


INPRS Actuarial Accrued Liability and Pension Contributions

Actuarial Accrued Liability as of June 30, 2022



FY22 Pension Contributions



Actuarial Accrued Liability is divided according to GASB Statement No. 68 proportionate share methodology.

Contributions - A Year in Review

- INPRS's 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 95% funded
- Collected \$3.246B in pension plan contributions
 - \$1,690M General Fund Appropriations
 - \$1,062M Employer contribution
 - \$409M Members Contributions
 - \$85M Other
- Employers paid 111.7% of the Actuarial Determined Contribution (ADC)

FY22 INPRS Actuarially Determined Contributions

Defined Benefit Retirement Plan	FY2022 (Actual Payroll Based Adj)			FY2021 (Actual Payroll Based Adj)		
	Actuarial Determined Contribution (ADC) Adj for Actual Payroll	GF Appropriation/ Employer/ Other Contribution	Percent Contributed	Actuarial Determined Contribution (ADC) Adj for Actual Payroll	GF Appropriation/ Employer/ Other Contribution	Percent Contributed
PERF	\$ 433,048	\$ 627,914	145.0 %	\$ 452,333	\$ 626,780	138.6 %
TRF '96	\$ 170,041	\$ 210,601	123.9 %	\$ 158,763	\$ 202,353	127.5 %
77 Fund	\$ 142,146	\$ 176,667	124.3 %	\$ 113,015	\$ 166,094	147.0 %
Judges	\$ 19,039	\$ 17,564	92.3 %	\$ 22,074	\$ 18,621	84.4 %
EG&C	\$ 3,200	\$ 6,714	209.8 %	\$ 2,924	\$ 7,083	242.2 %
PARF	\$ 4,011	\$ 4,044	100.8 %	\$ 5,042	\$ 4,402	87.3 %
LE DB	\$ 23	\$ 183	779.4 %	\$ 217	\$ 238	109.7 %
Aggregate Pre-Funded Plans	\$ 771,508	\$ 1,043,687	135.3 %	\$ 754,368	\$ 1,025,571	136.0 %
TRF Pre-'96	\$ 1,552,615	\$ 1,552,615	100.0 %	\$ 1,600,629	\$ 1,600,629	100.0 %
Aggregate All INPRS Plans	\$ 2,324,123	\$ 2,596,302	111.7 %	\$ 2,354,997	\$ 2,626,200	111.5 %

Based on preliminary 6/30/2021 actuarial valuation.

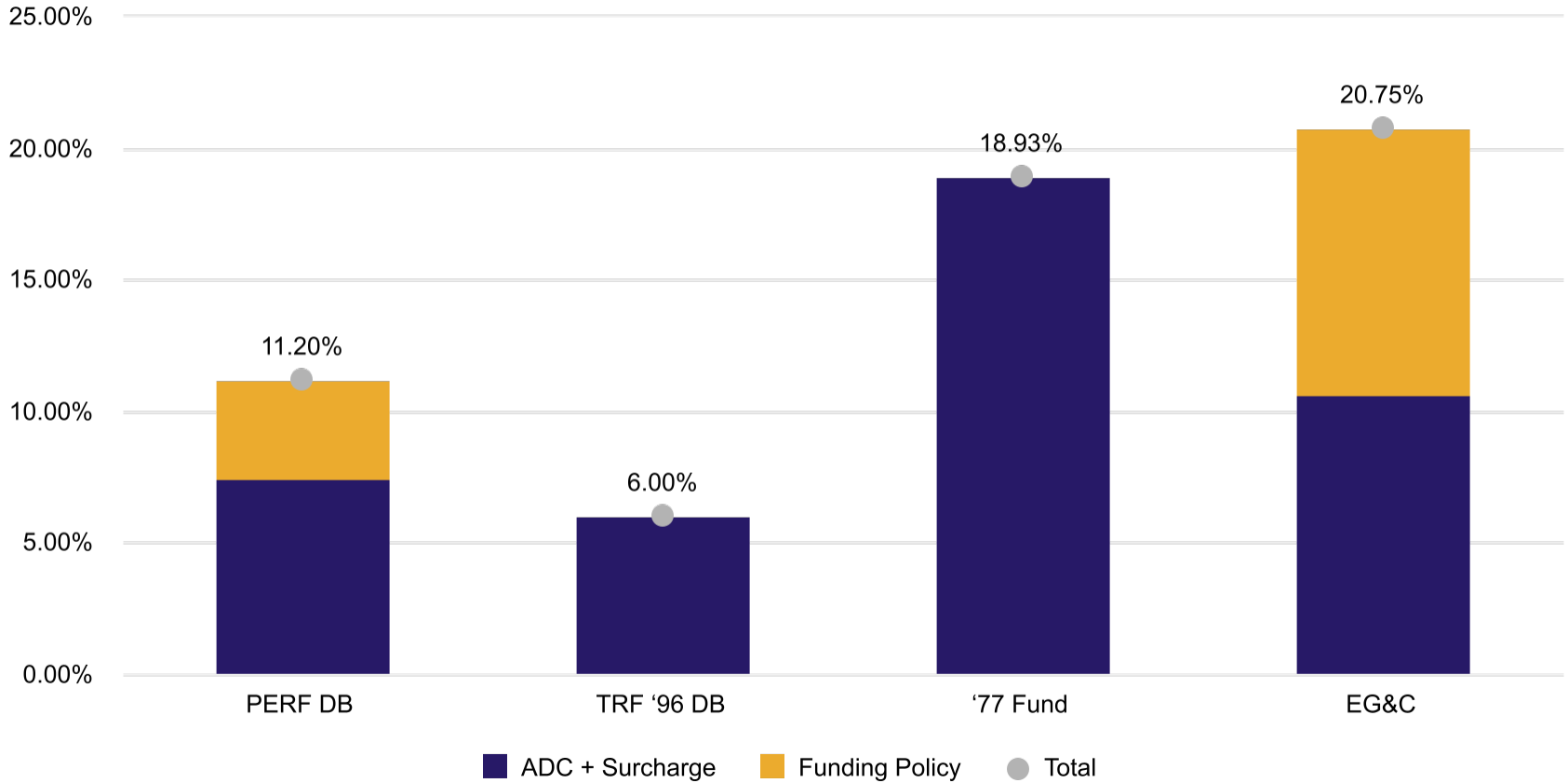


2022 Funding Policy Updates

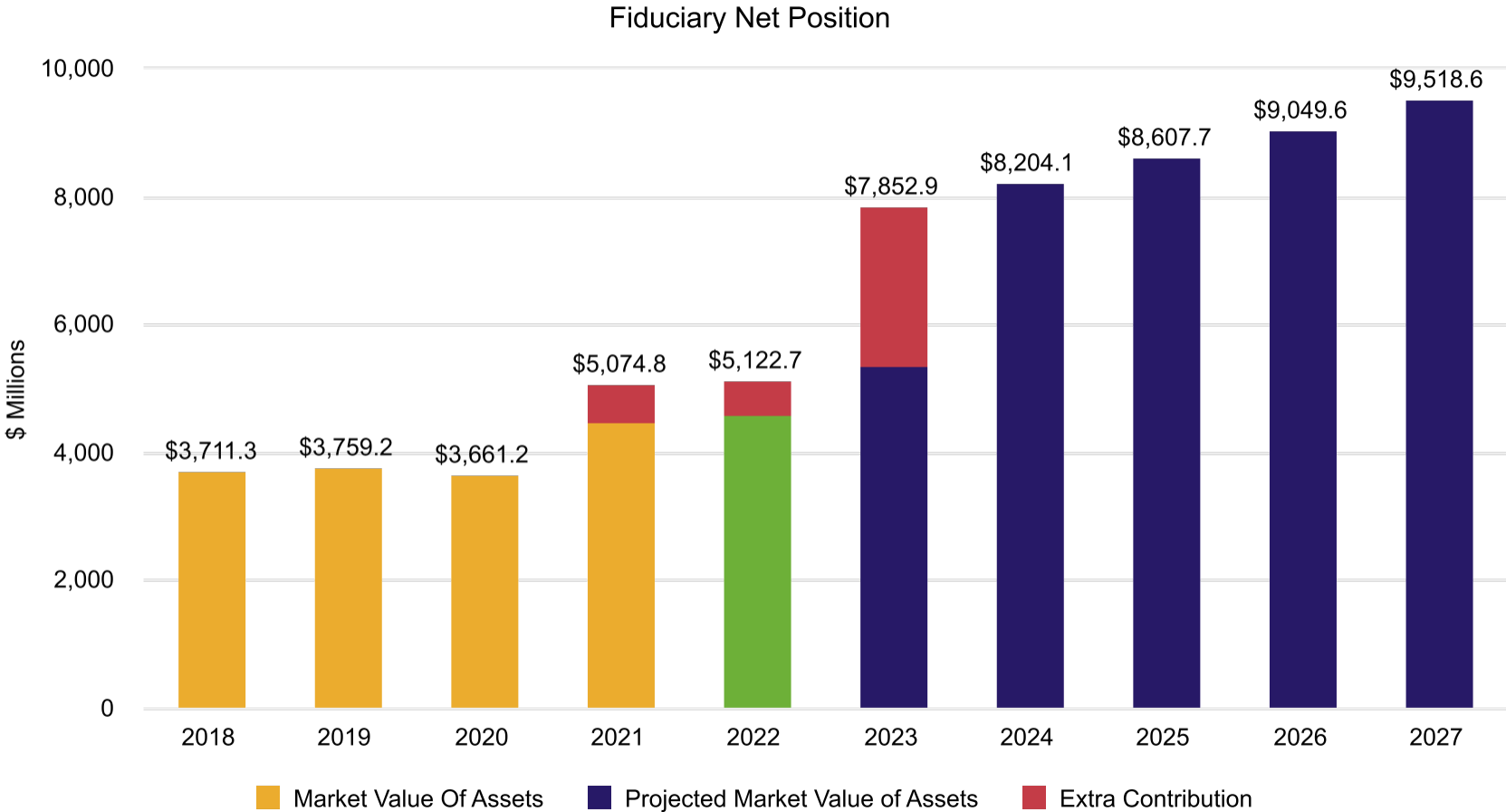
- INPRS's Funding Policy guides the calculation of the Actuarially Determined Contribution (ADC) and determines the contribution rates employers pay into the defined benefit funds
- In June 2022, the INPRS Board of Trustees adjusted some of the parameters used in the INPRS Funding Policy
 - Conclusion of over two years of study by INPRS staff
- The net effect is that INPRS will still prudently fund its defined benefit plans by always contributing at least the ADC, but will reduce employer contribution rates sooner than previously when assumptions are being met
- Core elements of the INPRS Funding Policy were recognized by an Innovative Public Pension Funding Strategies Award in 2022

Preliminary Estimated 2024 Contribution Rates

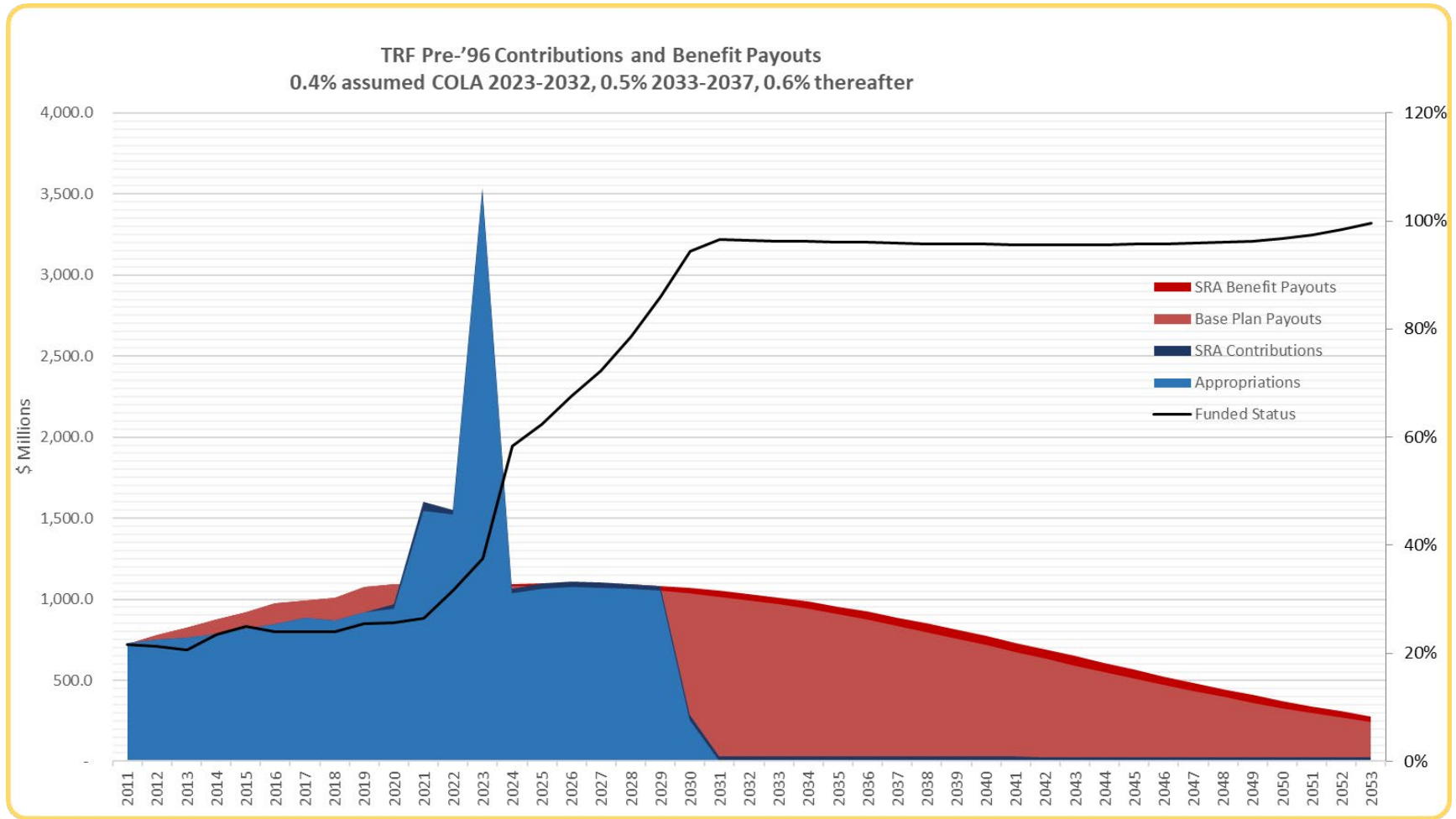
Employer Contribution Rates



Teachers' Pre-1996 Defined Benefit Account



Teachers' Pre-1996 DB Account Forecast

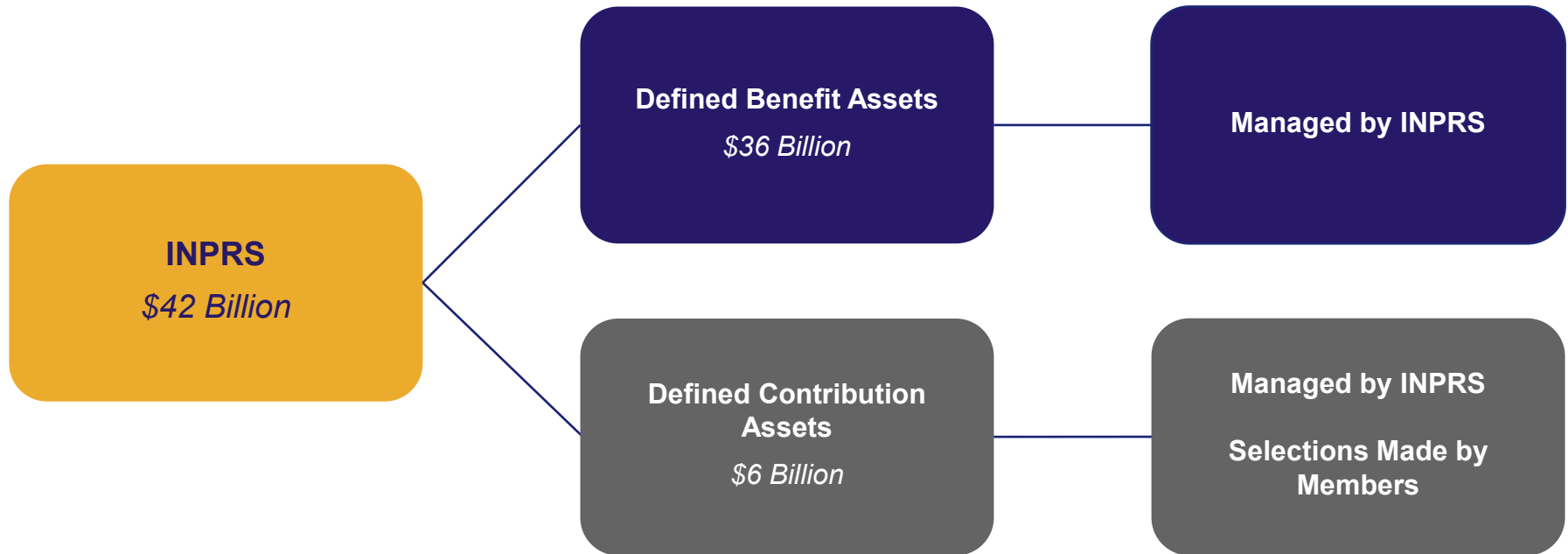


Investments - A Year in Review

- INPRS's total *market value of assets* = \$42.5 billion as of June 30, 2022.
- INPRS's defined benefit plan returned -6.44% for fiscal year 2022.
- The *actuarial value of assets* is used in calculating the funded ratio and actuarial required contributions. Investment returns are smoothed over five years. INPRS's five-year return is 7.16% annualized.
- INPRS continues to target a 6.25% long-term rate of return assumption, a more realistic return assumption among state plans.

INPRS Assets

INPRS assets are a mix of Defined Benefit and Defined Contribution monies

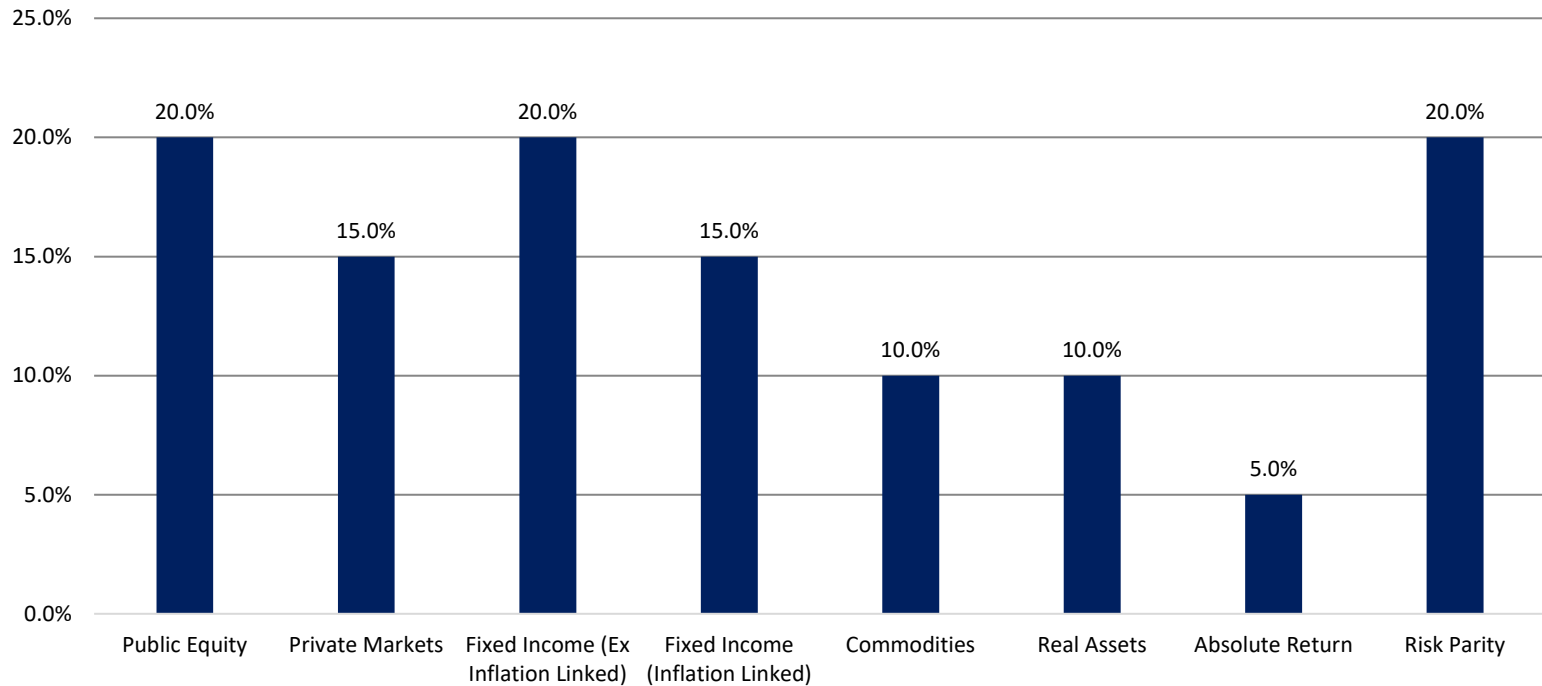


Defined Contribution assets include the Retirement Medical Benefits Account (\$372,041,415). The Special Death Benefit Fund (\$10,324,936) and Local Public Safety Pension Relief Fund (\$4,391,623), which are not part of the Defined Benefit or Defined Contribution, are excluded from these totals.

INPRS's Defined Benefit Investment Imperatives

- Achieve a 6.25% return over the long term.
- Achieve the return as efficiently & effectively as possible.
- Always have enough cash on hand to pay benefits.

Defined Benefit Target Asset Allocation



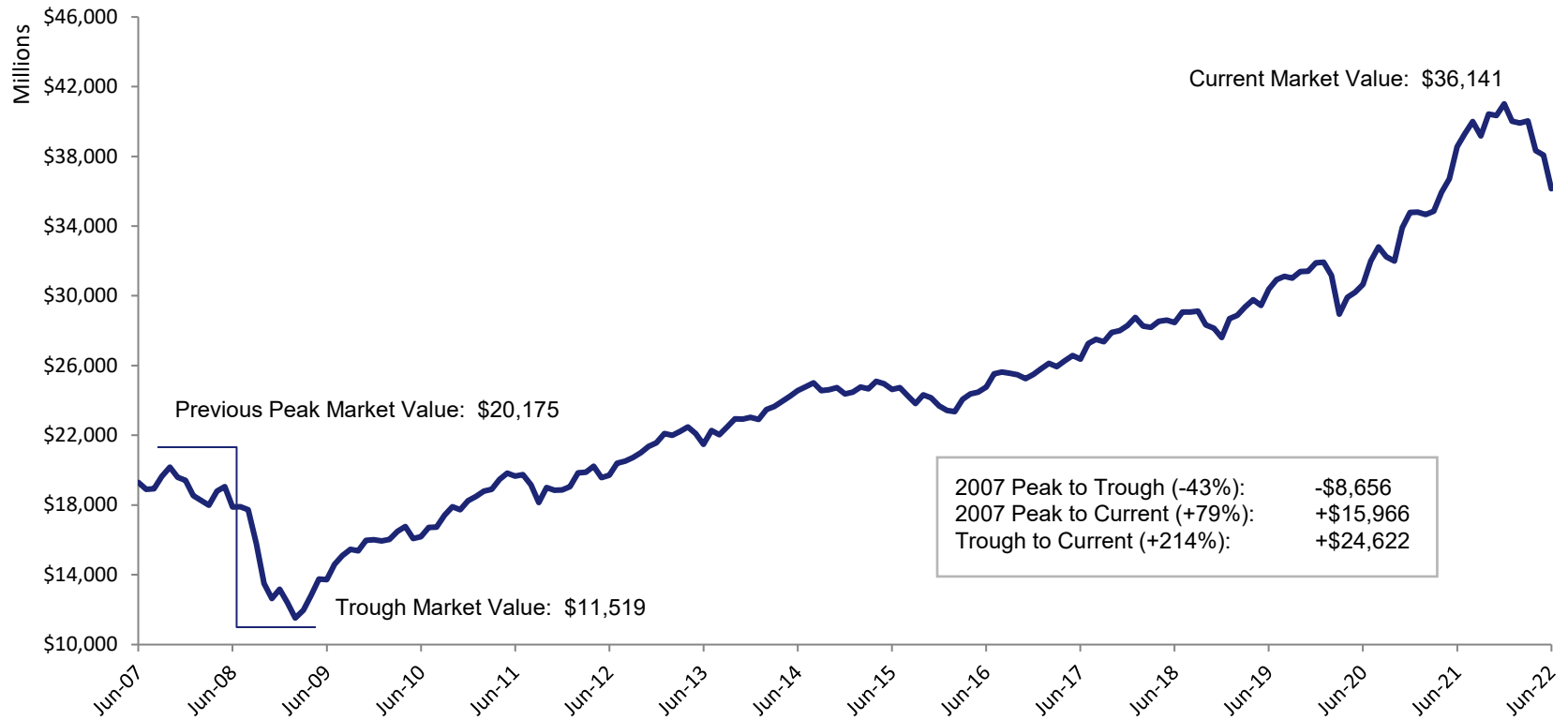
*No changes from the asset-liability study in FY2021.
There will be a new asset-liability study conducted in FY2025.*



Private Markets includes Private Equity and Private Credit. Real Assets includes Real Estate and Infrastructure.

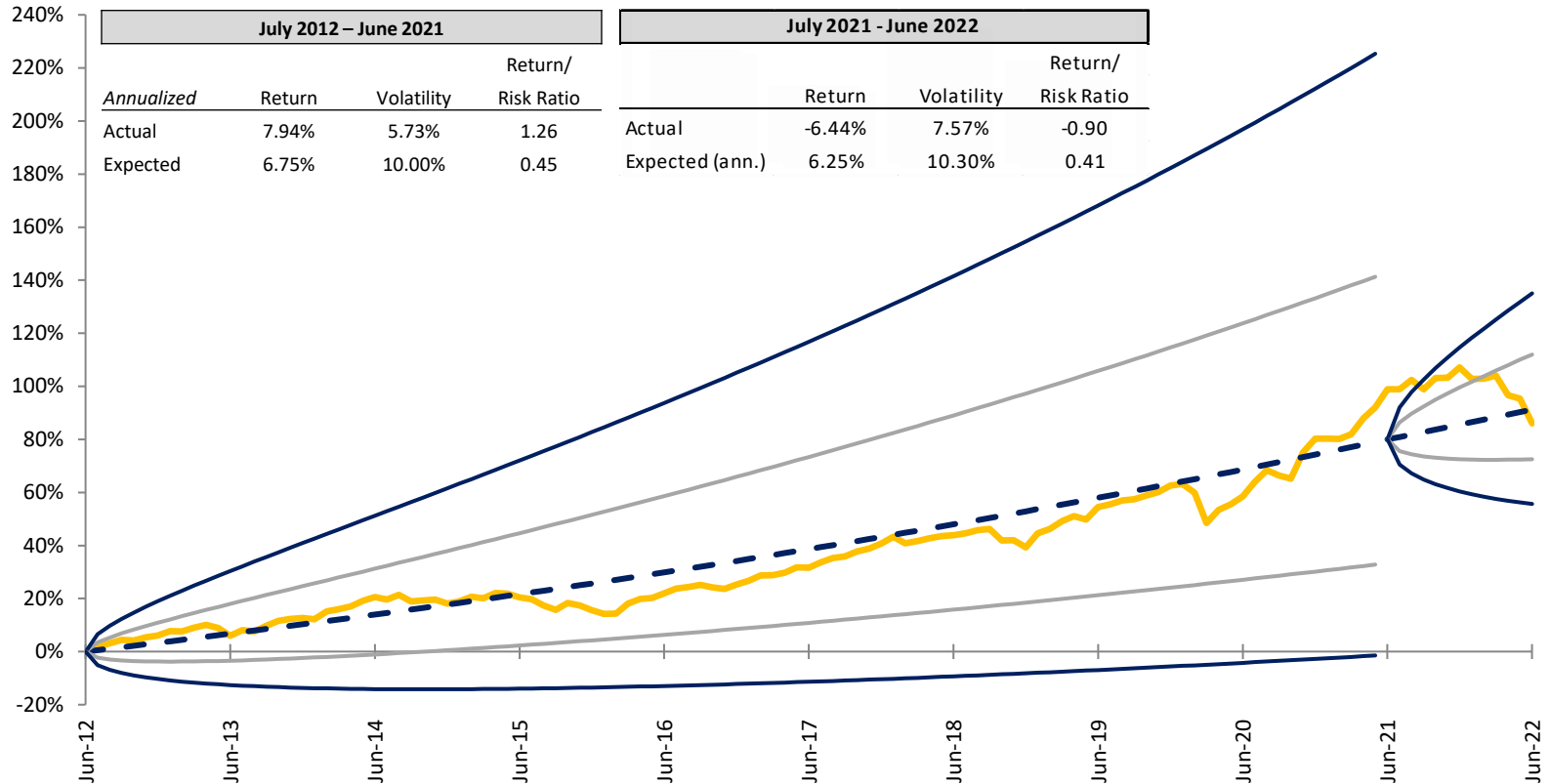
Defined Benefit Balance Through Time

INPRS DB Market Value as of June 30, 2022 (\$MM)



Defined Benefit Performance vs. Objective

INPRS Net of Fees Cumulative Returns



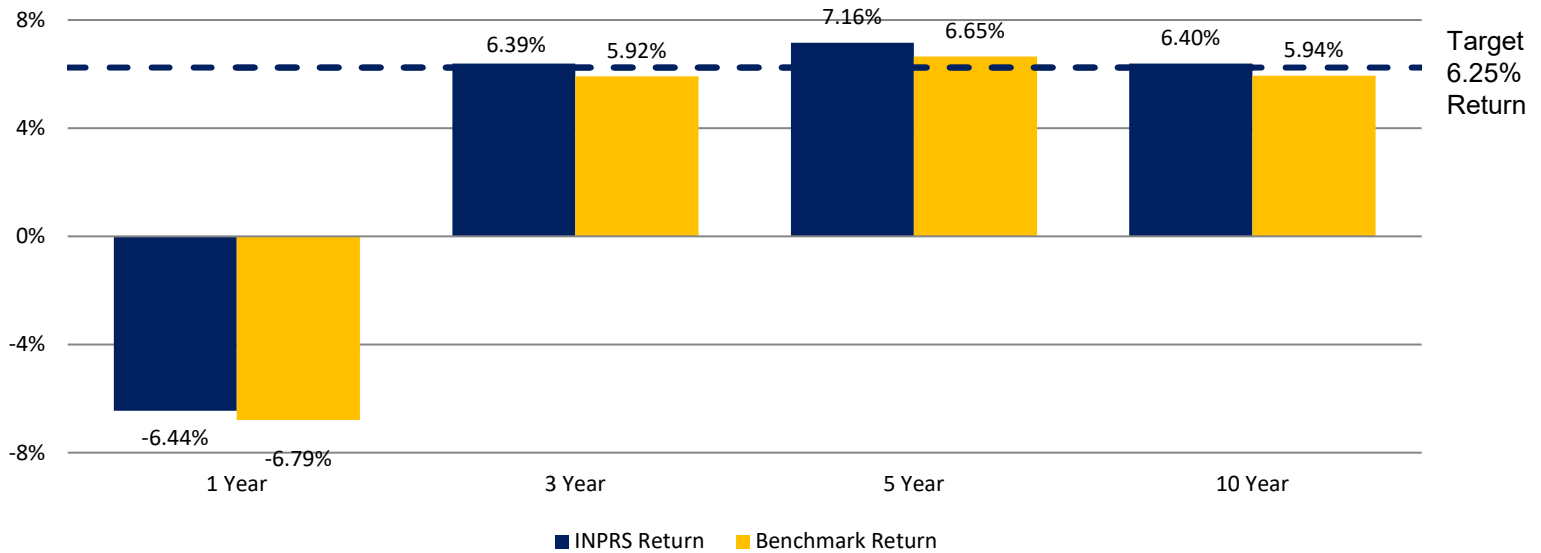
— Actual Cumulative Returns - - - Target Cumulative Returns — 1 Standard Deviation — 2 Standard Deviation



Return/Risk Ratio or Sharpe Ratio = (Total Return - Cash Return) / Volatility. Sharpe Ratio measures the return per unit of risk taken.

Defined Benefit Performance vs. Benchmarks

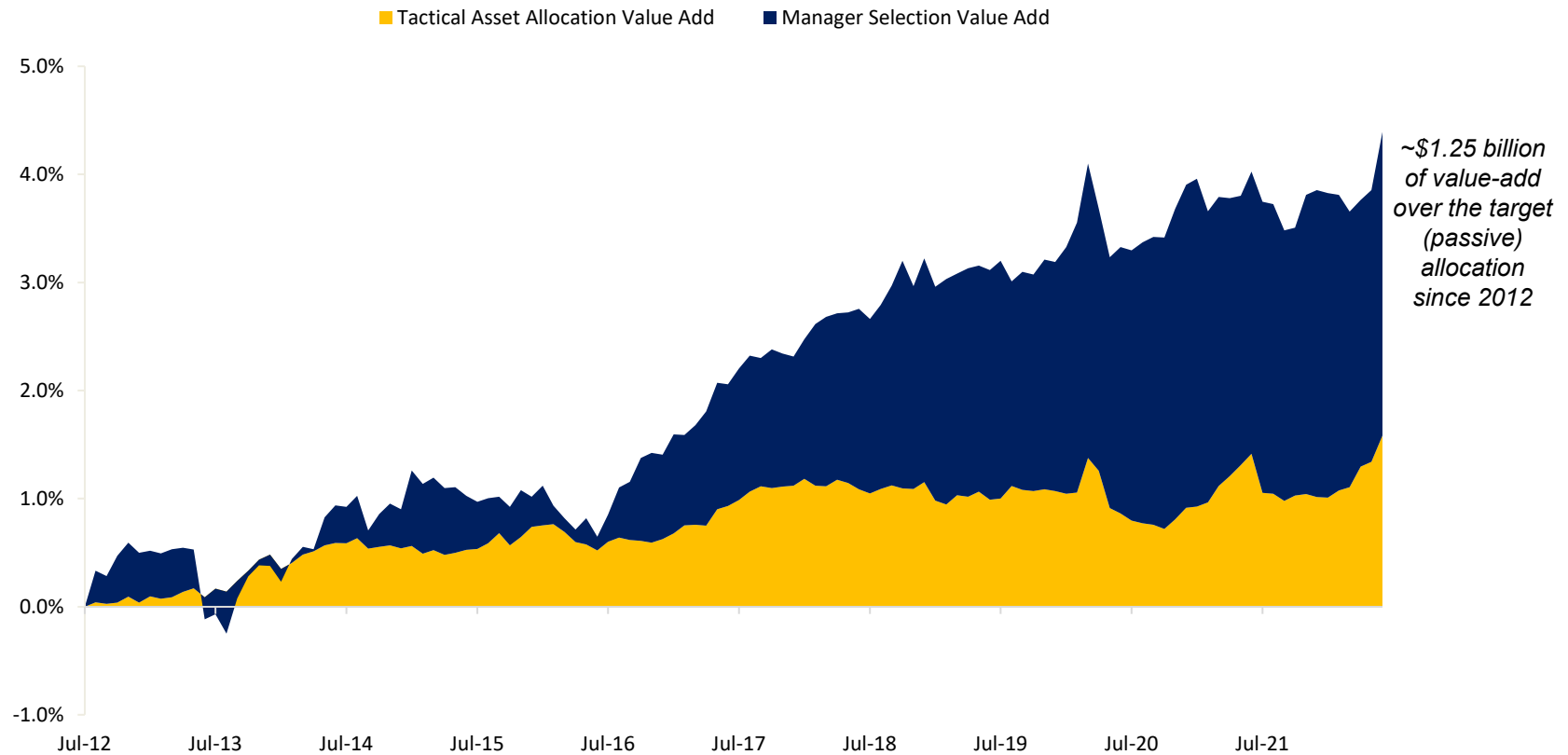
Annualized Net of Fee Returns as of June 30, 2022



- To evaluate performance, investors must select one or more benchmarks and continuously monitor the portfolio's performance against the chosen benchmark(s).
- Higher than expected inflation and a rise in discount rates contributed to INPRS underperforming its 6.25% target rate of return in FY 2022.

INPRS Defined Benefit "Value Add"

Cumulative Excess Returns over the Target Allocation (Net of Fees), July 2012 - June 2022

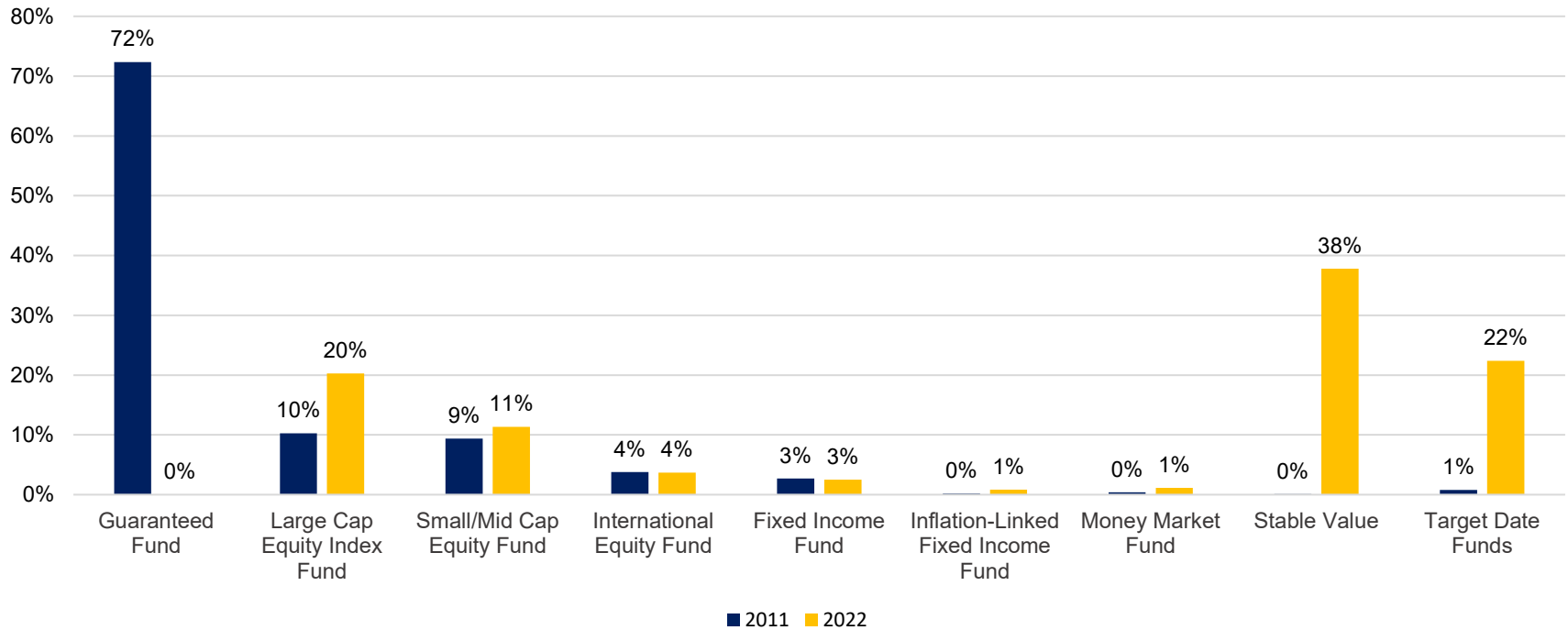


INPRS's Defined Contribution Investment Imperatives

- Provide a simple and diversified default option
 - Most members elect to stay invested in the default option through retirement.
- Provide a simple and diversified menu of stand-alone options
 - Reducing complexity & the number of investment options is believed to lead to better outcomes based on research from leading Defined Contribution experts.
- Leverage the DB asset base to provide low-cost investment options
 - Leverage the size of the Defined Benefit assets in an effort to lower the fees across Defined Contribution investment options.

Defined Contribution Fund Allocation

Comparing 2011 to 2022

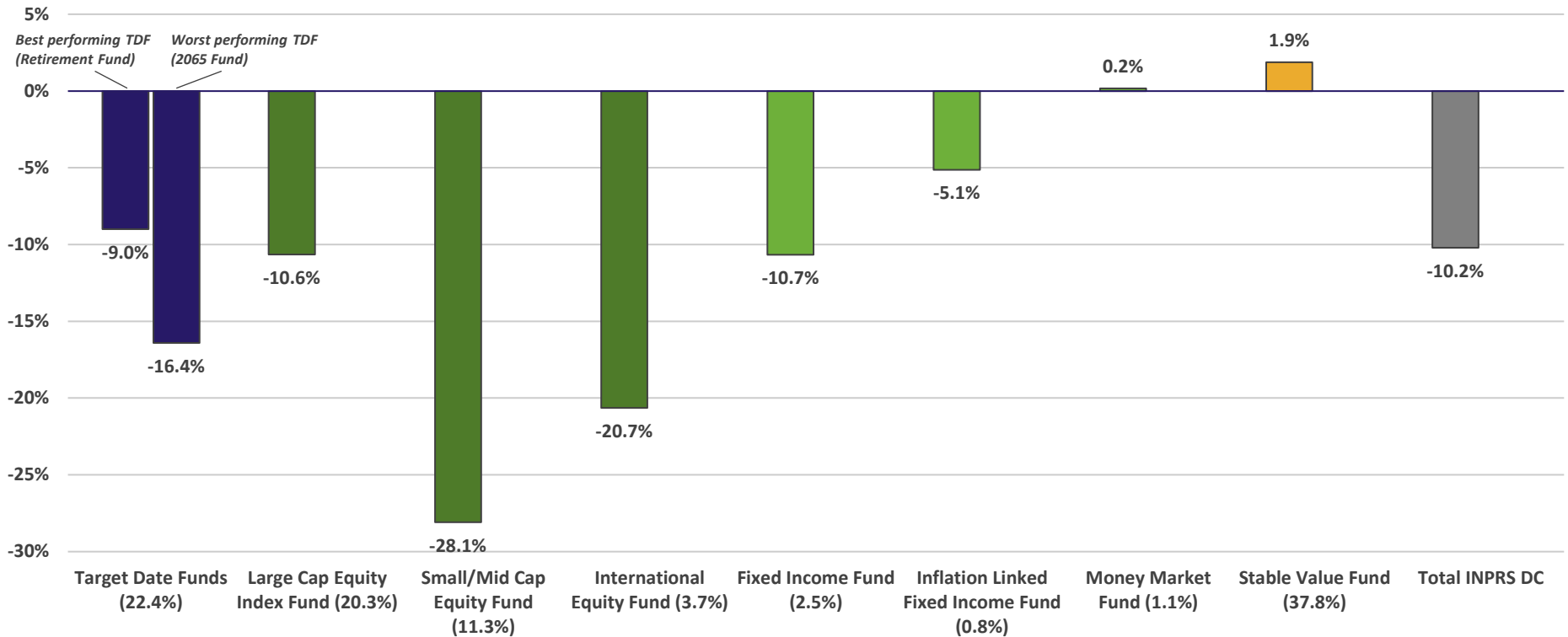


Target Date Funds have been the default option for members since 2010.

Defined Contribution Performance (1 YR)

INPRS's capital preservation options were the best performing options during FY 2022

FY 2022 Net Return by Participant Option (and % of INPRS DC Plan)

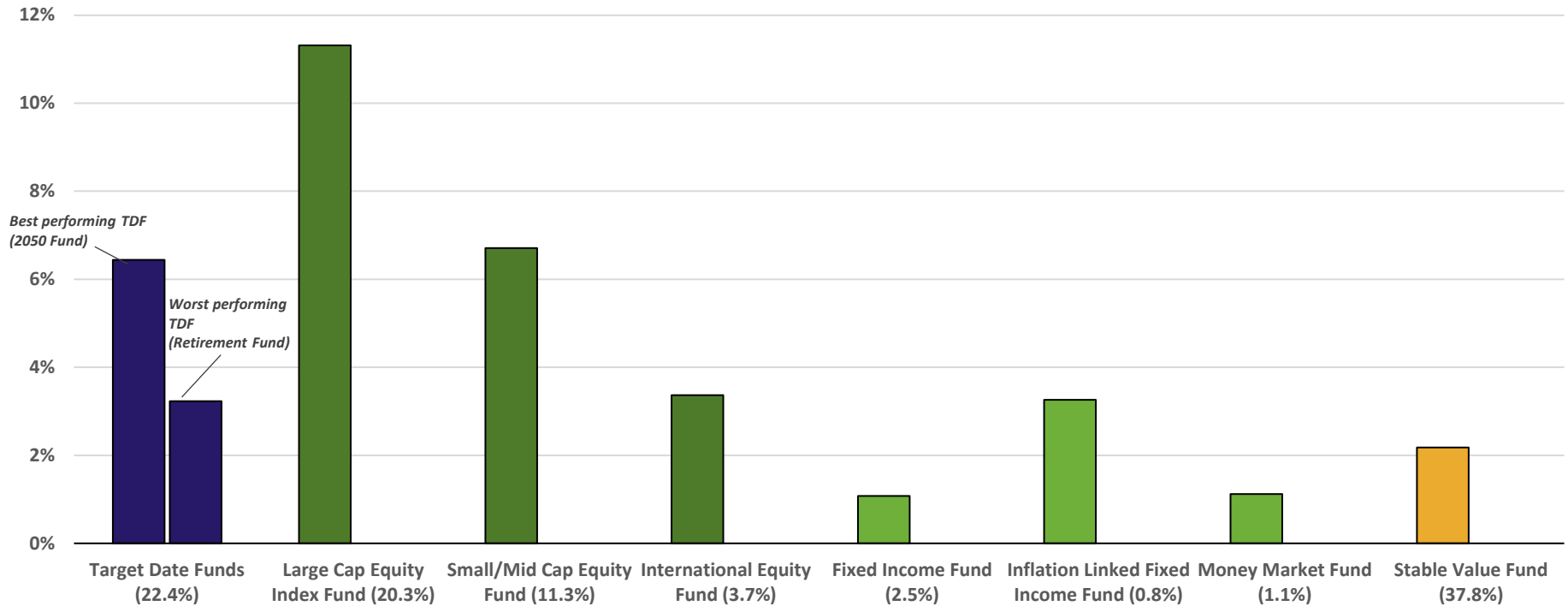


Source: BNY Mellon as of June 30, 2022. Allocation of participant options as of June 30, 2022.

Defined Contribution Performance (5 YR)

Target Date Funds have provided a better return stream for participants over longer time periods than capital preservation options

Trailing 5-Year Net Return (Annualized) by INPRS DC Participant Option

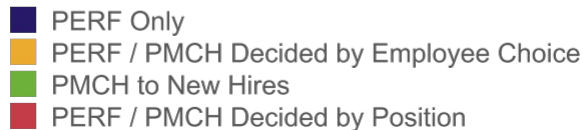
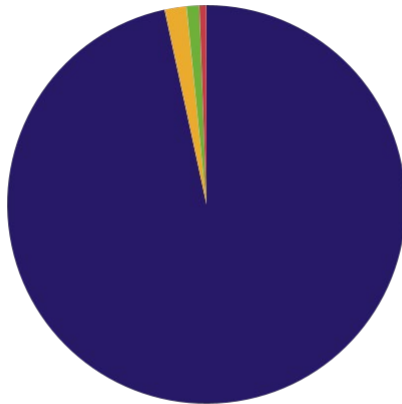


Source: BNY Mellon as of June 30, 2022. Allocation of participant options as of June 30, 2022.

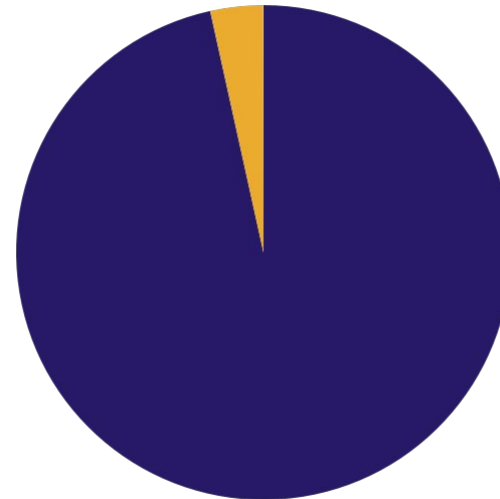
PERF My Choice Highlights

- **Currently 42 employers participate in My Choice**
 - 13 employers are only offering the PERF My Choice to new hires
 - 22 employers are offering new hires a choice between My Choice and Hybrid
 - 7 employers offering to employees by job classification

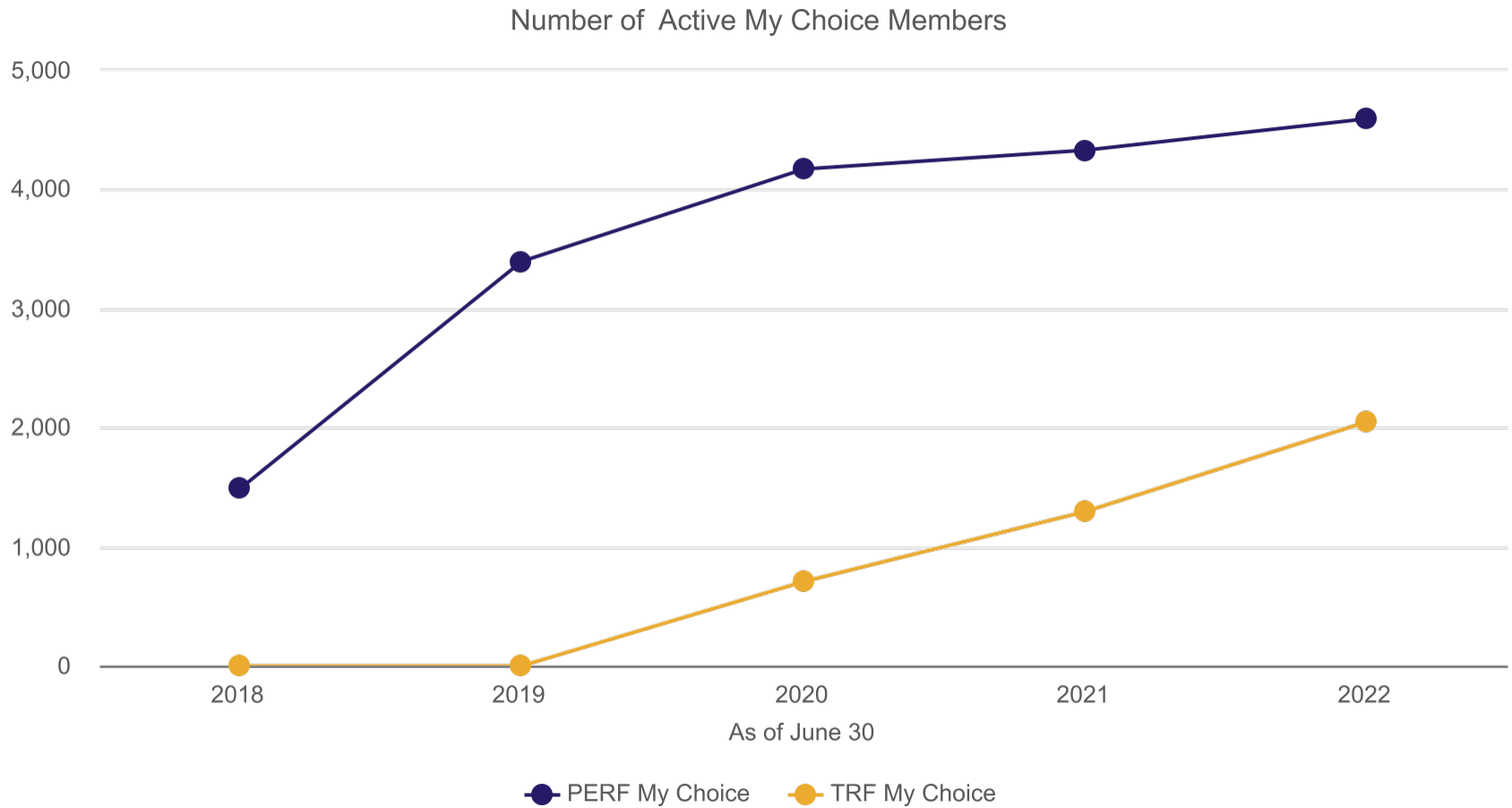
PERF Offerings by Employer Count



PERF Offerings by Active Member Count



Active My Choice Members by Fund



Minority and Women's Business Enterprises (MWBE)

Manager Name	Asset Class	Strategy	Market Value	MBE/WBE	If Minority
RhumbLine Advisers	Public Equity	Large Cap	\$ 1,260,949,600	MBE	African American
RhumbLine Advisers	Public Equity	Mid Cap	119,129,475	MBE	African American
RhumbLine Advisers	Public Equity	Small Cap Completeness	741,559,139	MBE	African American
RhumbLine Advisers	Public Equity	Small Cap Value	82,129,199	MBE	African American
Denali Advisors	Public Equity	Small Cap Value	30,914,390	MBE	Native American
Granahan Investment Management	Public Equity	Small Cap Growth	24,790,128	WBE	
ABRY Partners	Private Equity	Special Situations	33,750,867	WBE	
ABRY Partners	Private Equity	Buyout	21,271,776	WBE	
Scale Venture Partners	Private Equity	Venture Capital	5,407,682	WBE	
Sumeru Equity Partners	Private Equity	Buyout	229,076,675	MBE	Indian American
TowerBrook	Private Equity	Buyout	116,096,396	MBE	Unknown
TowerBrook	Private Equity	Special Situations	17,949,915	MBE	Unknown
Vista Equity Partners	Private Equity	Buyout	598,036,642	MBE	African American
Warwick Energy Investment Group	Private Equity	Real Assets	89,476,643	WBE	
Noble Investment Group	Real Assets	Value Add	40,814,783	MBE	Indian American

Total INPRS MWBE Exposure	\$	3,411,353,309
Total INPRS AUM	\$	42,512,454,349
MWBE As % of INPRS AUM		8.0 %



Total INPRS AUM includes \$36,141,194,759 in DB and \$6,371,259,590 in DC.

Local Public Safety Pension Relief Fund

(\$ Millions)

	Actual					Forecast			
	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	
Additions									
Base Appropriations (General Fund)		\$145.0	\$145.0	\$145.0	\$155.0	\$152.5	\$152.5	\$152.5	
Lottery Transfer		30.0	30.0	30.0	30.0	30.0	30.0	30.0	
Cigarette Tax		21.5	21.8	21.7	20.5	20.5	19.5	18.6	
Alcohol Tax		4.2	4.4	4.8	4.1	4.7	4.9	5.1	
Investment Income		1.8	0.9	0.0	0.1	0.1	0.1	0.2	
Total Additions		\$202.5	\$202.1	\$201.5	\$209.7	\$207.8	\$207.0	\$206.4	
Deductions									
Pension Relief Distributions		\$212.3	\$209.2	\$205.8	\$207.4	\$205.6	\$197.6	\$192.7	
Death Benefits		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other (Local Unit Withdrawal and Admin. Expenses)		0.0	0.2	0.0	1.6	0.1	0.1	0.1	
Total Deductions		\$212.3	\$209.4	\$205.8	\$209.0	\$205.7	\$197.7	\$192.8	
Pension Relief Fund Balance		\$29.0	\$19.2	\$11.9	\$7.4	\$8.1	\$10.2	\$19.5	\$33.1
Memo: Local Unit Balance		1.7	1.6	1.5	1.5	0.0	0.0	0.0	



The decline in cigarette tax revenues is forecasted to accelerate due to a change in federal law

Local Public Safety Pension Relief Fund

(\$ Millions)

	FY 2022 Actual vs. Expected			Forecast		
	Expected	Actual	Difference	FY2023	FY2024	FY2025
Additions						
Base Appropriations (General Fund)	\$155.0	\$155.0	\$0.0	\$152.5	\$152.5	\$152.5
Lottery Transfer	30.0	30.0	0.0	30.0	30.0	30.0
Cigarette Tax	22.0	20.5	-1.5	20.5	19.5	18.6
Alcohol Tax	4.7	4.1	-0.6	4.7	4.9	5.1
Investment Income	0.1	0.1	0.0	0.1	0.1	0.2
Total Additions	\$211.8	\$209.7	-\$2.1	\$207.8	\$207.0	\$206.4
Deductions						
Pension Relief Distributions	\$199.9	\$207.4	\$7.5	\$205.6	\$197.6	\$192.7
Death Benefits	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.2	0.1	-0.1	0.1	0.1	0.1
Total Deductions	\$200.1	\$207.5	\$7.4	\$205.7	\$197.7	\$192.8
Pension Relief Fund Balance	\$17.6	\$8.1	-\$9.5	\$10.2	\$19.5	\$33.1

- For FY 2022, benefit payments were higher than expected due to inflationary effects on the CPI index and first-class officer salaries, resulting in \$7.5M more in benefits paid than expected.
- Going forward into FY 2023 and beyond, these higher benefits increased the amount of expected distributions to local units compared to prior estimates

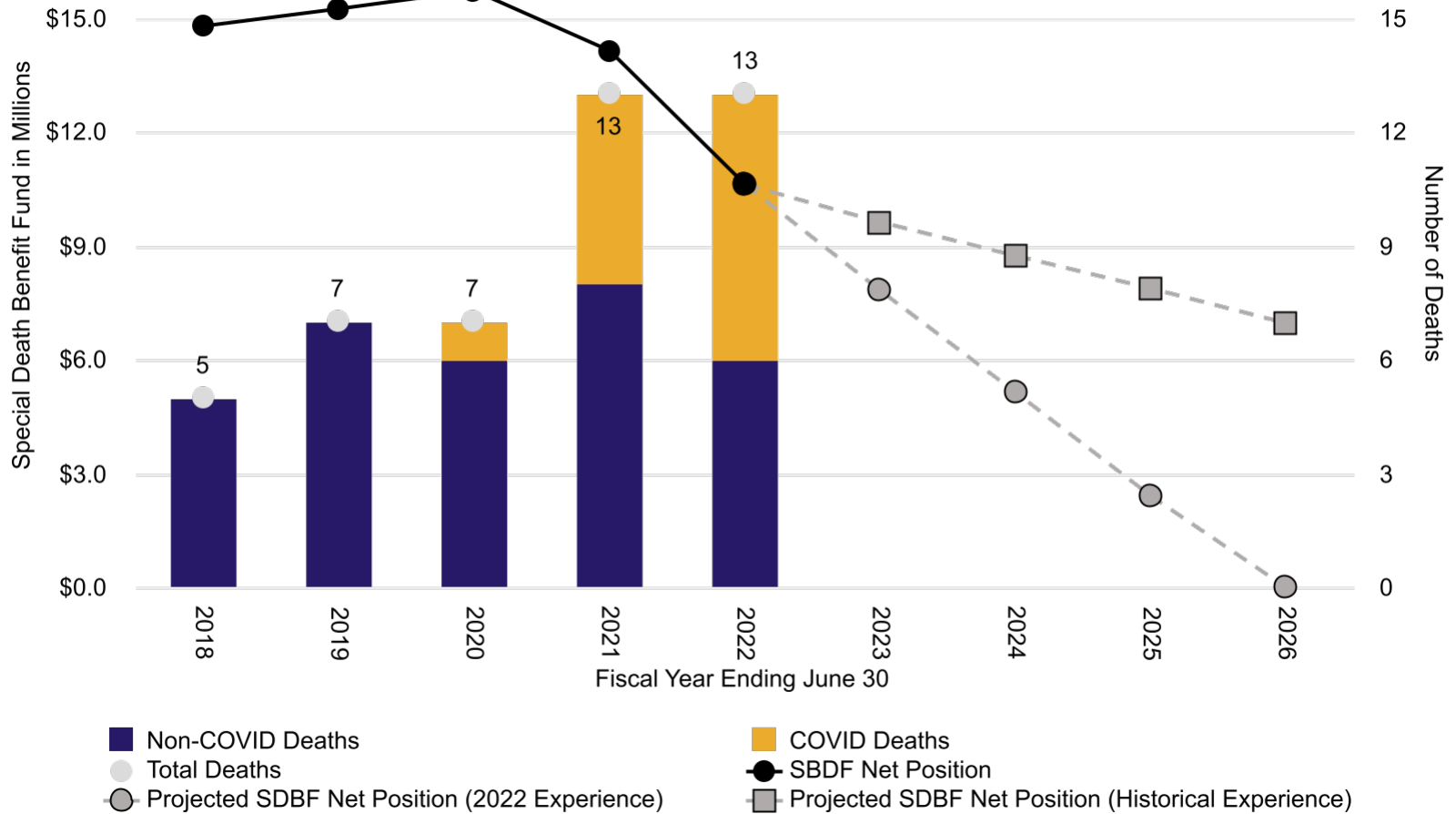


The decline in cigarette tax revenues is forecasted to accelerate due to a change in federal law. For purposes of this exhibit, effects of the local unit balances have been removed.

Special Death Benefit Fund

- The Special Death Benefit Fund under IC 5-10-10 grants payments to state and public safety employees who die in the line of duty
- Before 2019, the fund balance was stable from investment earnings and a small dedicated revenue allocation
- Since 2020, the fund balance has begun to fall
 - HEA 1036-2020 improved the death benefit for public safety officers from \$150,000 to \$225,000
 - SEA 232-2021 included COVID and other exposure risk diseases
 - Combined, these two improvements have cost \$3.9M since passage
- At the current rate of payments, the fund balance is expected to last 4 years. If there is a reduction in deaths back to pre-COVID levels, the fund balance is expected to last at least 12 years.

Special Death Benefit Fund



Projection is based on historical experience only and is not an actuarial analysis.



Sudan, Terror States, and Anti-Israel BDS Divestment Update 2022

- MSCI provided INPRS with a list of potential restricted businesses.
- MSCI engages with businesses quarterly to allow for responses to their actions.
- MSCI sent an INPRS-specific engagement letter to potential restricted businesses that were unresponsive.
- INPRS provided its investment managers a list of restricted businesses and instructions to divest by December 31, 2022.

INPRS continues to be in full compliance with the Sudan, Terror States, and Anti-Israel BDS Divestment legislation

Supplemental Reserve Accounts June 30, 2022

(\$ Thousands)

	PERF DB	TRF Pre-'96 DB	TRF '96 DB	EG&C DB	LE DB	SRA Total
Net Position - Beginning of Year	\$93,542	\$134,752	\$20,092	\$912	\$31	\$249,329
Employer Contribution	\$31,714	\$0	\$6,710	\$290	\$0	\$38,714
Lottery	\$0	\$30,000	\$0	\$0	\$0	\$30,000
Total Contributions	\$31,714	\$30,000	\$6,710	\$290	\$0	\$68,714
Net Investment Income/(Loss)	\$(7,968)	\$(10,199)	\$(1,695)	\$(82)	\$(2)	\$(19,944)
Benefit Payouts and expenses	\$(4,085)	\$(6,044)	\$(899)	\$(39)	\$(2)	\$(11,068)
Net Inc/(Dec) in Net Position	\$19,661	\$13,757	\$4,118	\$169	\$(4)	\$37,702
Ending Net Position Restricted	\$113,203	\$148,509	\$24,210	\$1,081	\$27	\$287,031
Committed Balance 06/30/2022	\$85,066	\$103,711	\$18,564	\$816	\$27	
Uncommitted Balance 06/30/2022	\$28,137	\$44,798	\$5,646	\$265	\$0	
2023 Surcharge Rate	0.34 %		0.22 %	1.00 %		



Note: Lottery money can be split between any of the funds. Currently most \$30M per year is allocated to TRF Pre-'96 DB.
2023 Surcharge rates are based on preliminary 6/30/2022 actuarial valuations and are subject to change.

Report on Stress Test or Risk Measurement

IC 5-10.5-6-6 Report on stress test or risk assessment

Sec. 6. If during a state fiscal year beginning after June 30, 2018, the system performs a stress test or a risk assessment on any of the public pension and retirement funds of the system, including a sensitivity analysis of funding status, the director, or another suitable person designated by the director, shall before November 1 of the following state fiscal year:

- (1) submit a report describing the stress tests and risk assessments performed and the results of those tests and risk assessments to the interim study committee on pension management oversight established by [IC 2-5-1.3-4](#) in an electronic format under [IC 5-14-6](#); and
- (2) upon request from the chairman of the interim study committee on pension management oversight, present a summary of the information described in subdivision (1) to the interim study committee on pension management oversight.

- **Dedicated stress and risk assessments are conducted every three to five years.**
- **The last dedicated report was conducted and reported to PMOC in 2019. The next report is expected in 2024.**

Index of Risk Measurements (IC 5-10.5-6-6)

- Each year the actuarial valuation reports contain a sensitivity to the interest rate up to $\pm 1\%$ discount rate by 0.25% intervals. The reports are available on INPRS's website.
- Each year the annual report contains a $\pm 1\%$ discount rate sensitivity to the Net Pension Liability per fund. The reports are available on INPRS's website.
- Assumptions are studied by fund at least once every five years, and the full report is available on INPRS's website.

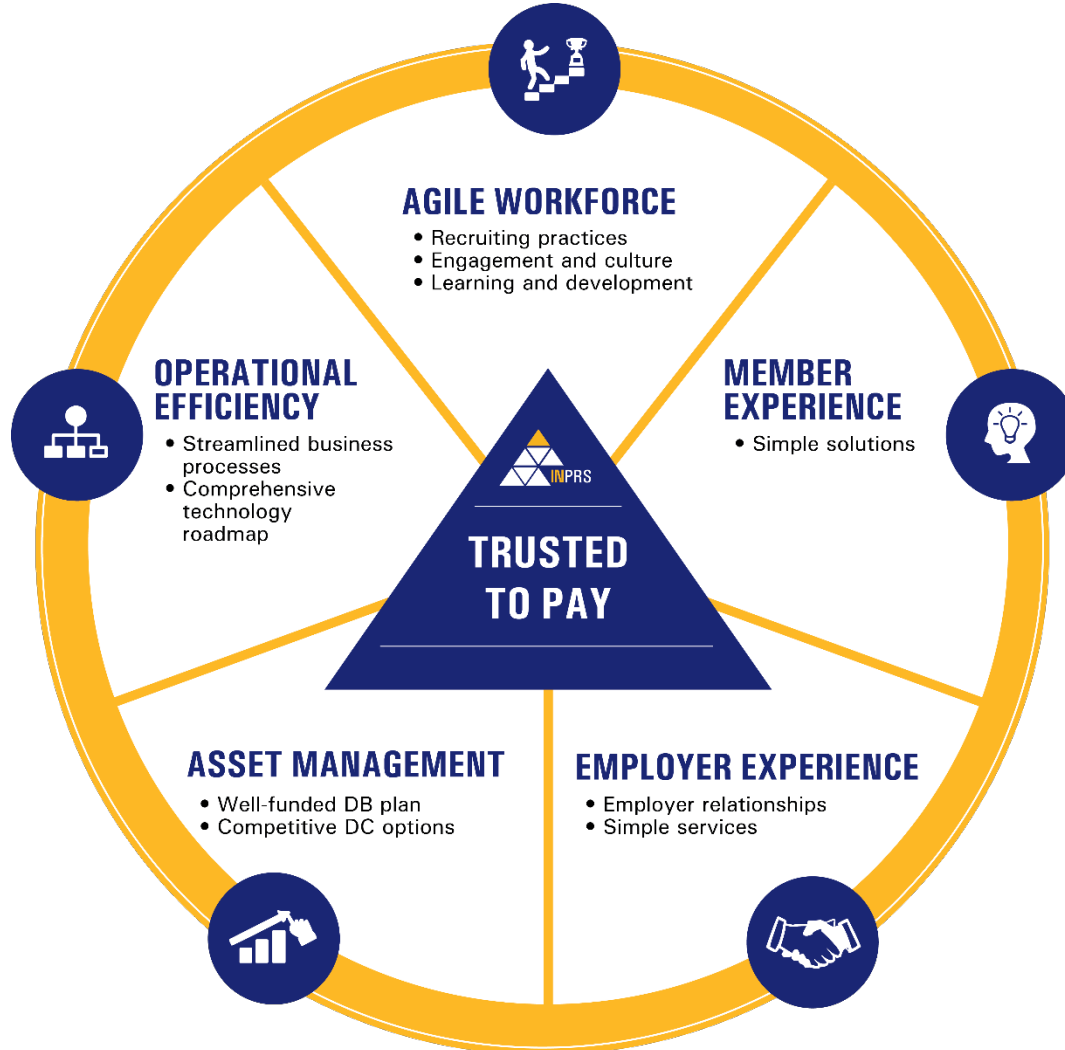
Inflation Impact on INPRS Defined Benefit Plans

- Inflation affects the wages our employers pay, and wages are a component of benefits for all INPRS DB plans
 - Increasing salaries makes past service more valuable, creating new liabilities
 - Increased benefits going forward are not affected materially due to funding methodology
- Inflation affects the benefits retirees receive
 - The legislature grants benefit increases ad hoc for PERF, TRF, LE DB and EG&C
 - Current wages are a component of the benefit for LPSPR, '77 Fund, JRS and PARF
 - '77 Fund benefits are capped to CPI. LPSPR benefits are a mixture of '77 Fund rules and wage indexing, and experienced a substantial increase in 2021
- Inflation affects investment performance
 - Higher than expected inflation has divergent impacts across asset classes, with real assets and inflation-linked bonds typically better positioned for such an environment than equities and nominal bonds.
 - Actions by central banks or governments to control inflation may have the potential to significantly tighten monetary or fiscal policy, potentially causing investment risk premiums to rise and hurting returns across all asset classes.



Appendix

FY 2023-2025 Strategy Map



FY22 Year End Performance and Year Over Year Improvement

Portfolio Performance			Process		
DB Rate of Return			Benefits Paid on Time		
Fees Below Peer Median			Annual Employer Satisfaction		
Minimum Investment Return			Cost per Member		
DC - Investment Options			Performance to Budget		
Customer and Financial			Unmodified Audit Opinion		
Funded Status -- Prefunded plans			Pending Code Changes		
Employer Contributions			Projects on Time		
Actuarial Determined Contributions			Learning/Growth & Risk		
Member Satisfaction: Website			Employee Engagement		
Member Satisfaction: Counseling			Voluntary Turnover		
Member Satisfaction: Workshops			Manage Enterprise Risk		
Member Satisfaction: Call Center			Audit Remediation Timeframe		
Member Satisfaction: Recent Retirees			Compliance		
Benchmark (CEM) Service Score					

FY2022 Key Accomplishments and Results

People:

- Established a team of Culture Ambassadors to address employee culture concerns
- Implemented several new communication channels between staff and leadership
- Reorganized to reduce silos
- Views on the INPRS culture improved 12.7%
- Views on professional growth opportunities increased 11.5%
- INPRS recognized as a recommended employer increased by 20%

Customer:

- Continued to clarify vision for a quality member and employer experience
- Created an intentional team of subject matter experts (SMEs) to identify current state issues, inconsistencies, and gaps to define and implement immediate solutions
- Implemented enhanced education software enabling INPRS to service 50% more members each month with the On Demand function
- Member and Employer Satisfaction remains at or above targets

Financial:

- Implemented the new asset allocation the Board approved in FY2021

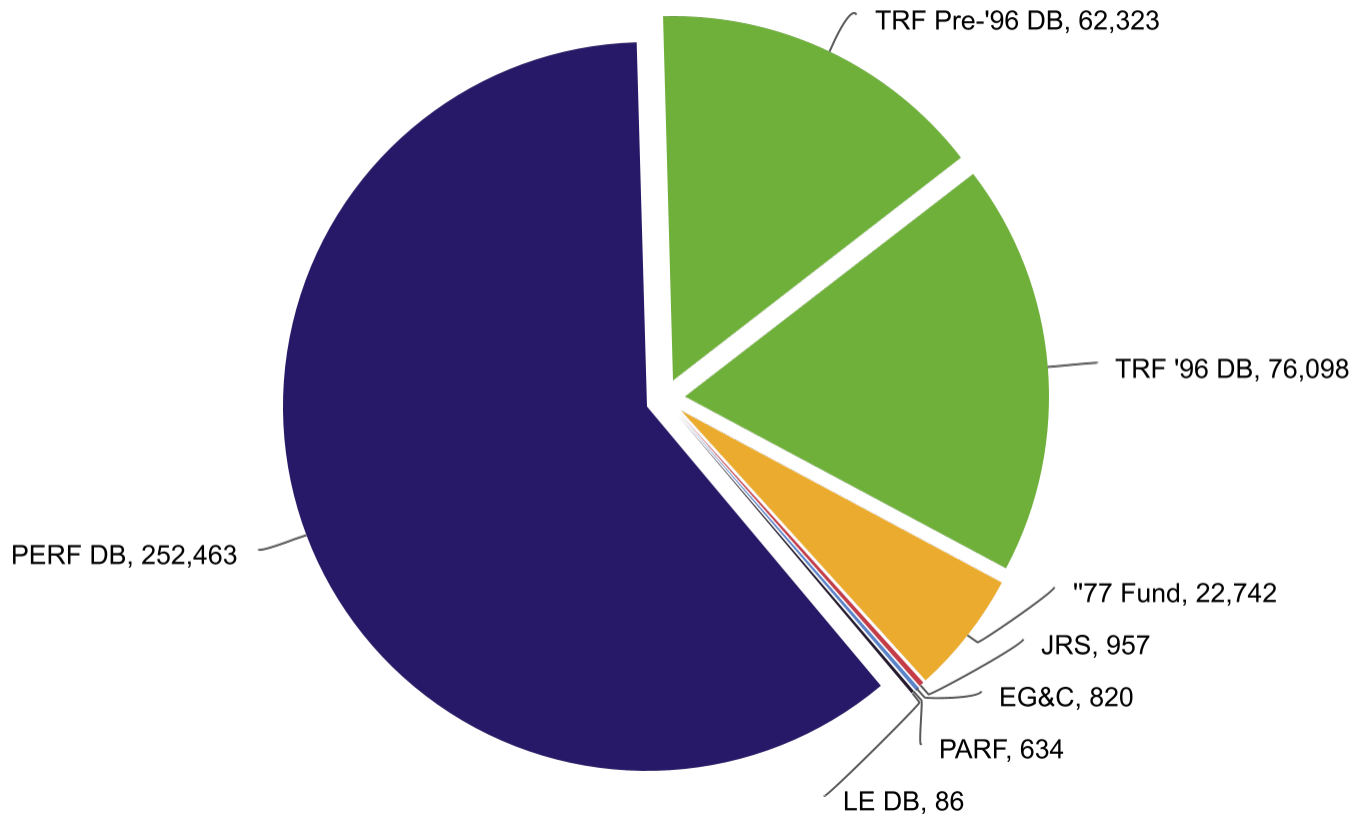
FY2022 Key Accomplishments and Results

Process:

- Reduced time to first payment from 90 days to 45 days
- Realized a 38% reduction in days to process retirements from 52 days to 32 days
- Completed 100% of the backlog cases in the 77 Fund Disability Determination Process
- Implemented and processed 100% of payments and tax statements on time for the Governor and Surviving Spouse Pension Plan
- Call center satisfaction improved to 80%
- Completed 100% of planned process maturity evaluations meeting the organizational target of 9 representing a high level of maturity for critical processes
- Identified recommendations to improve RMBA service delivery to members by 71% from 74 days to 21 days
- Continued savings realized by the implementation of PBI (early death notification) at approximately \$931K in FY22
- Streamlined the Overpayment process resulting in \$101K cost avoidance
- INPRS ranked #1 in DB service amongst CEM pension plan peers and all participants

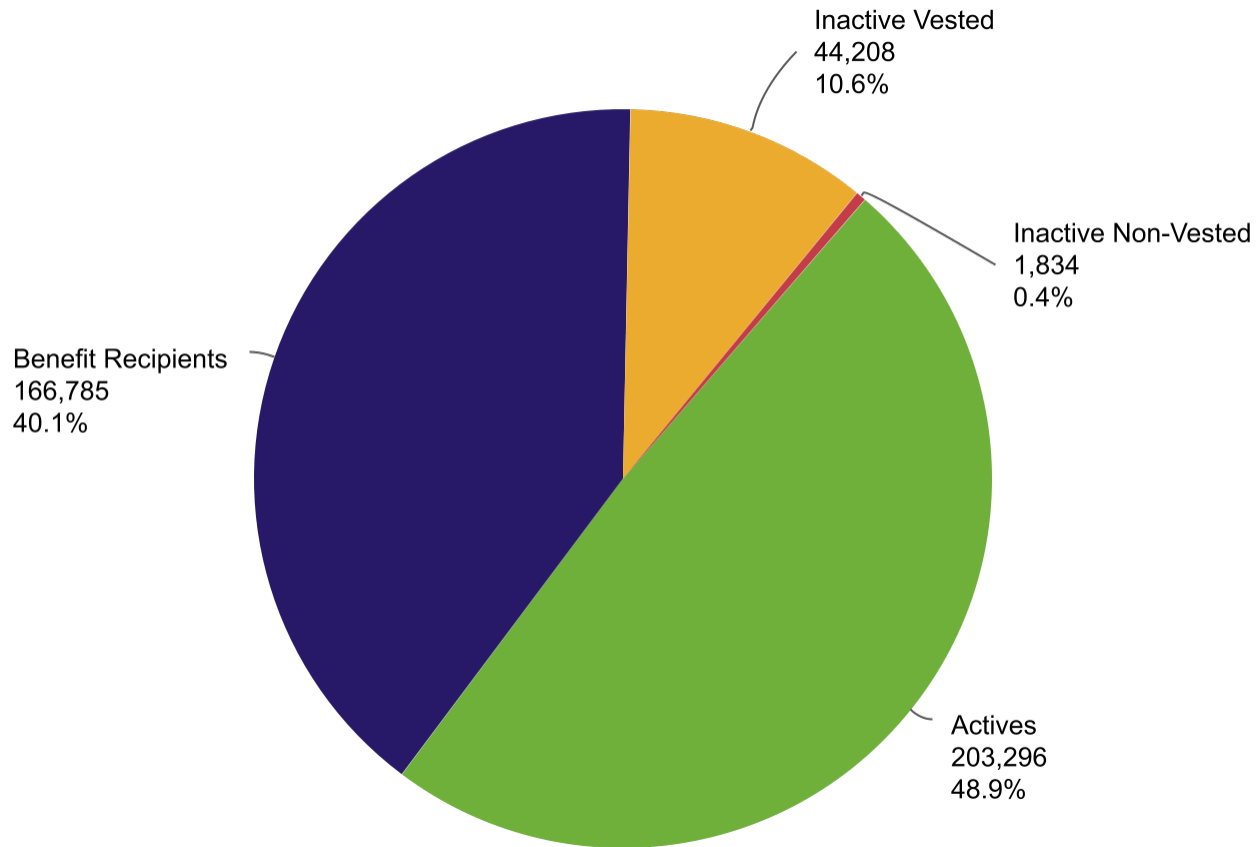
Defined Benefit Membership By Fund

As of June 30, 2021



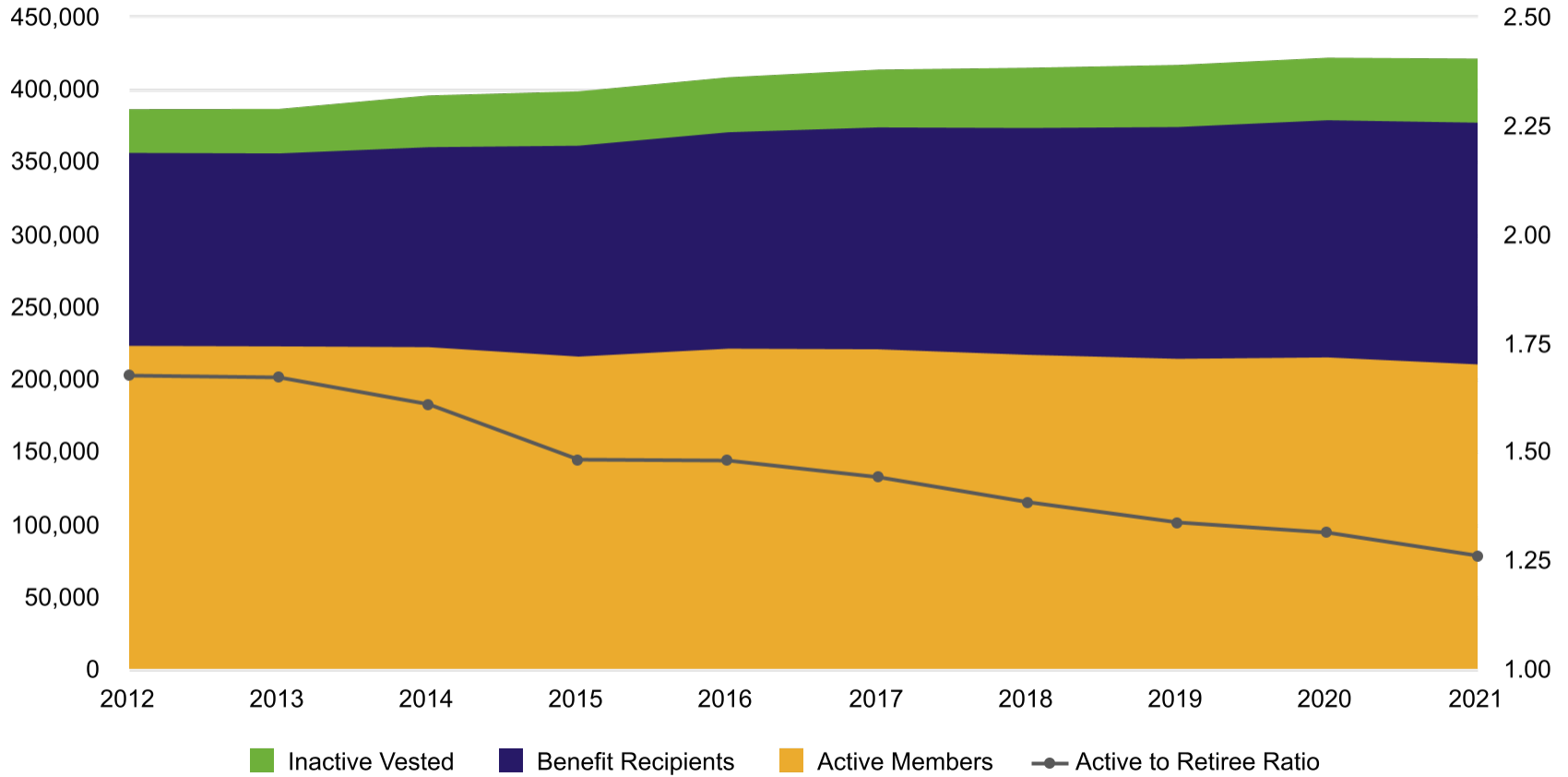
DB Membership by Status

As of June 30, 2021



Membership Over Time

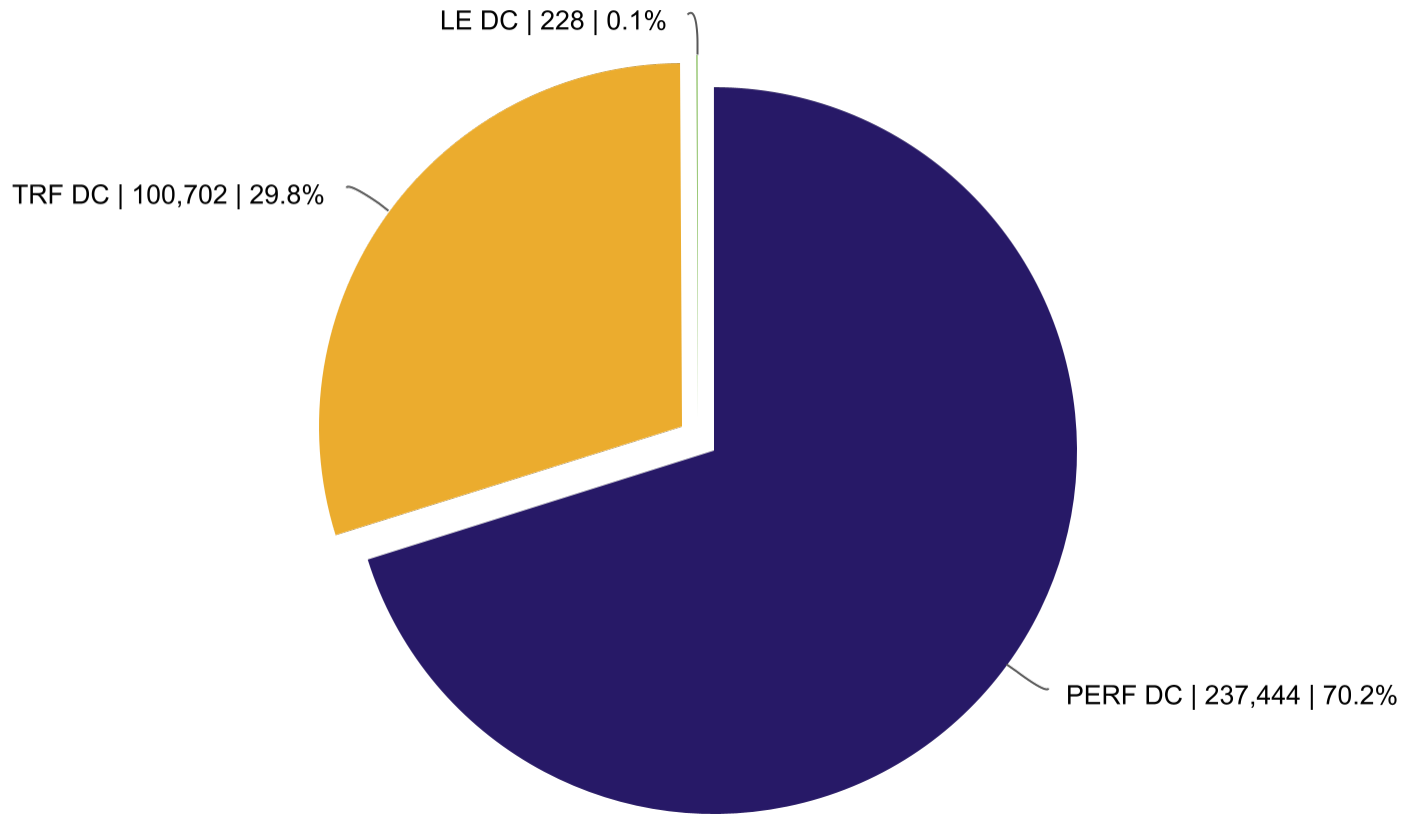
As of June 30, 2021



Active membership includes active My Choice members

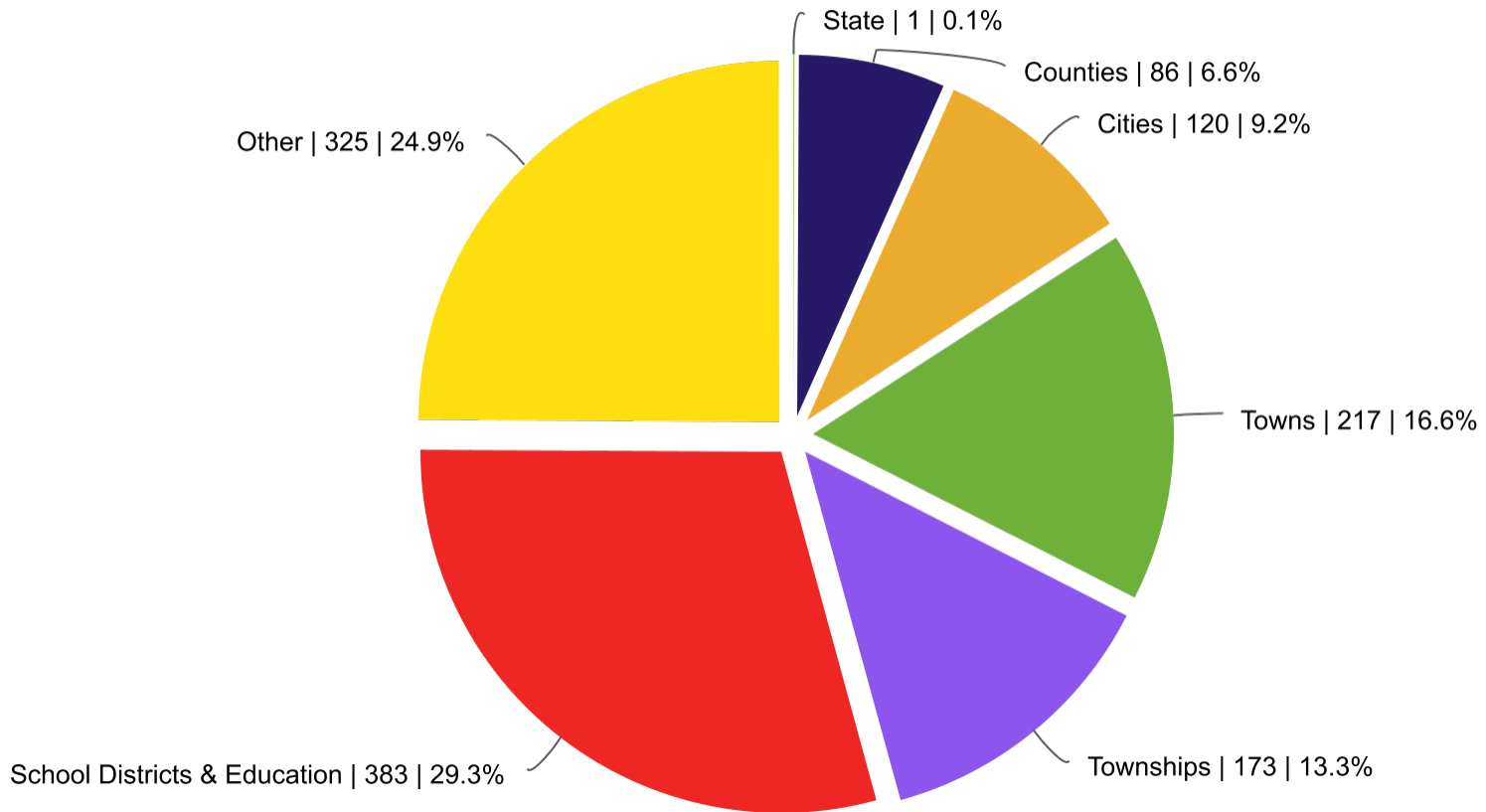
Membership DC

338,000+ DC Members
As of June 30, 2022



Overview - Employer Demographics

1,300+ Employers
As of June 30, 2022



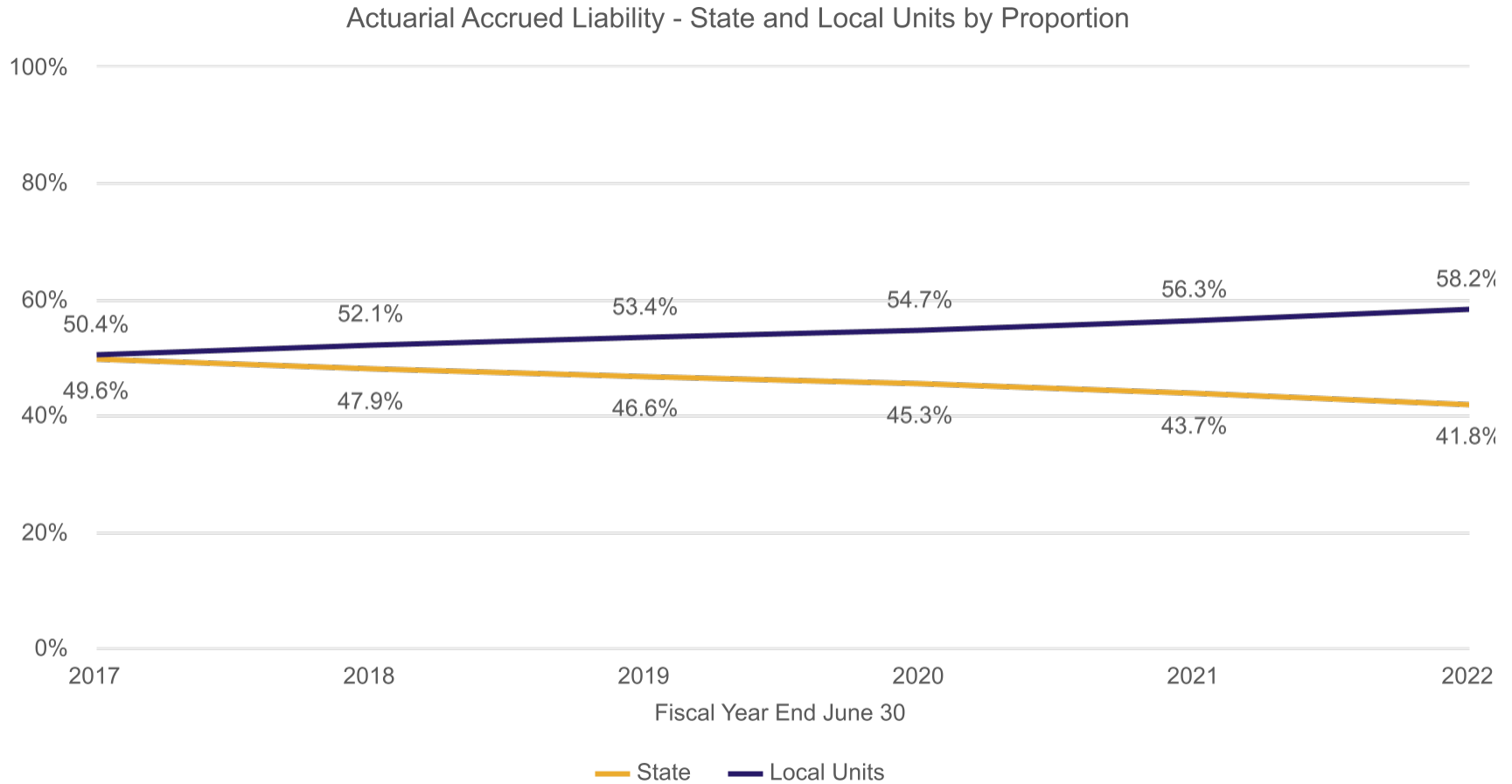
Pension Funding Sources FY2022 - FY2025

FUND	FY 2022 Actual		FY 2023 Forecast		FY 2024 Forecast		FY 2025 Forecast	
	General Fund Appropriation	Other	General Fund Appropriation	Other	General Fund Appropriation	Other	General Fund Appropriation	Other
PERF DB		\$629.3		\$620.3		\$631.1		\$639.6
1% COLA								
TRF Pre-'96 DB	1,520.4	32.3	3,505.0	30.0	1,035.2	30.0	1,066.2	30.0
1% COLA								
TRF '96 DB		211.1		226.4		232.5		239.0
1% COLA								
77 Fund		236.0		240.1		249.2		257.5
JRS	10.4	11.8	10.9	11.1	13.9	11.3	14.5	11.4
EG&C		8.1		8.1		8.0		8.0
1% COLA								
PARF	4.0	1.5	4.2	1.4	4.3	1.5	4.4	1.6
LE DB*	0.2		0.0		0.0		0.0	
1% COLA								
Total	\$1,535.0	\$1,130.1	\$3,520.1	\$1,137.4	\$1,053.4	\$1,163.5	\$1,085.1	\$1,187.1
PERF DC		\$197.8		\$205.3		\$213.1		\$221.2
TRF DC		143.4		151.2		159.3		167.9
LE DC		2.0		2.0		2.1		2.2
Total		\$343.2		\$358.5		\$374.5		\$391.3
RMBA		\$27.4		\$28.5		\$28.9		\$29.3
Special Death		0.4		0.4		0.4		0.4
Pension Relief	155.0	54.5	152.5	55.2	152.5	54.4	152.5	53.7
Total	\$1,690.0	\$1,555.6	\$3,672.6	\$1,580.0	\$1,205.9	\$1,621.7	\$1,237.6	\$1,661.8



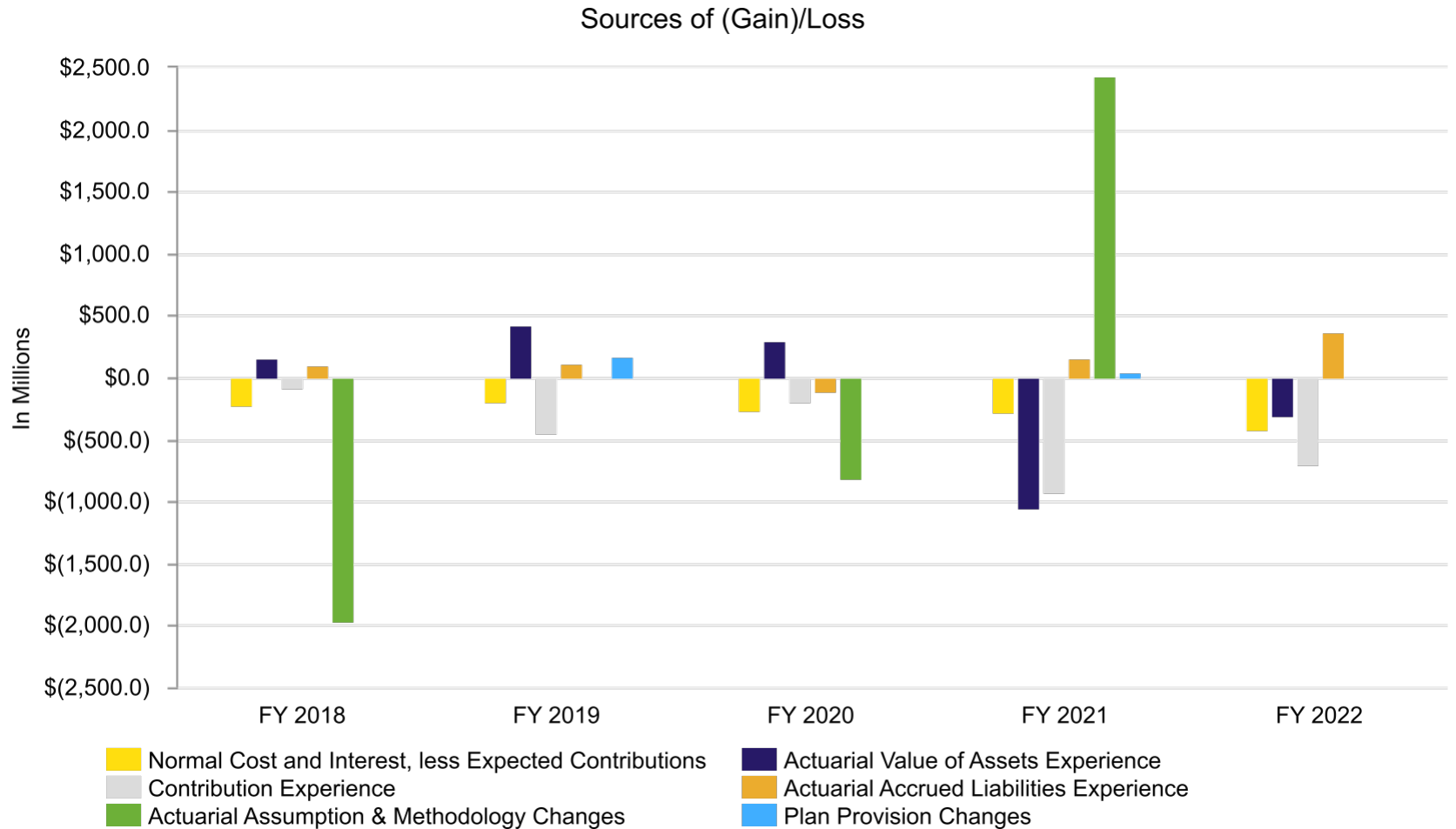
*LE DB's actuarially determined contribution is expected to be less than \$1,000

INPRS Actuarial Accrued Liability Over Time

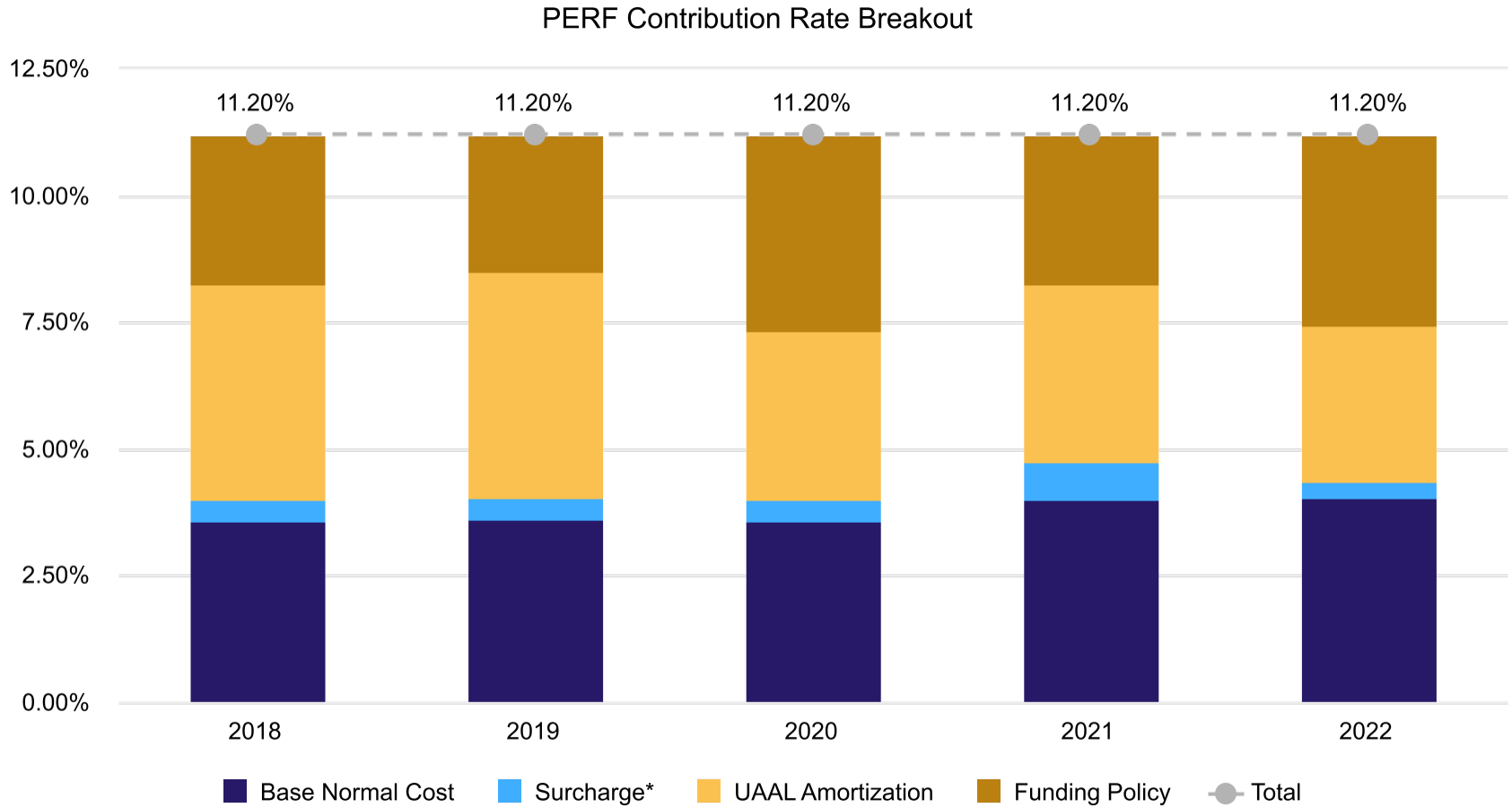


Actuarial Accrued Liability is divided according to GASB Statement No. 68 proportionate share methodology.

Unfunded Liability History



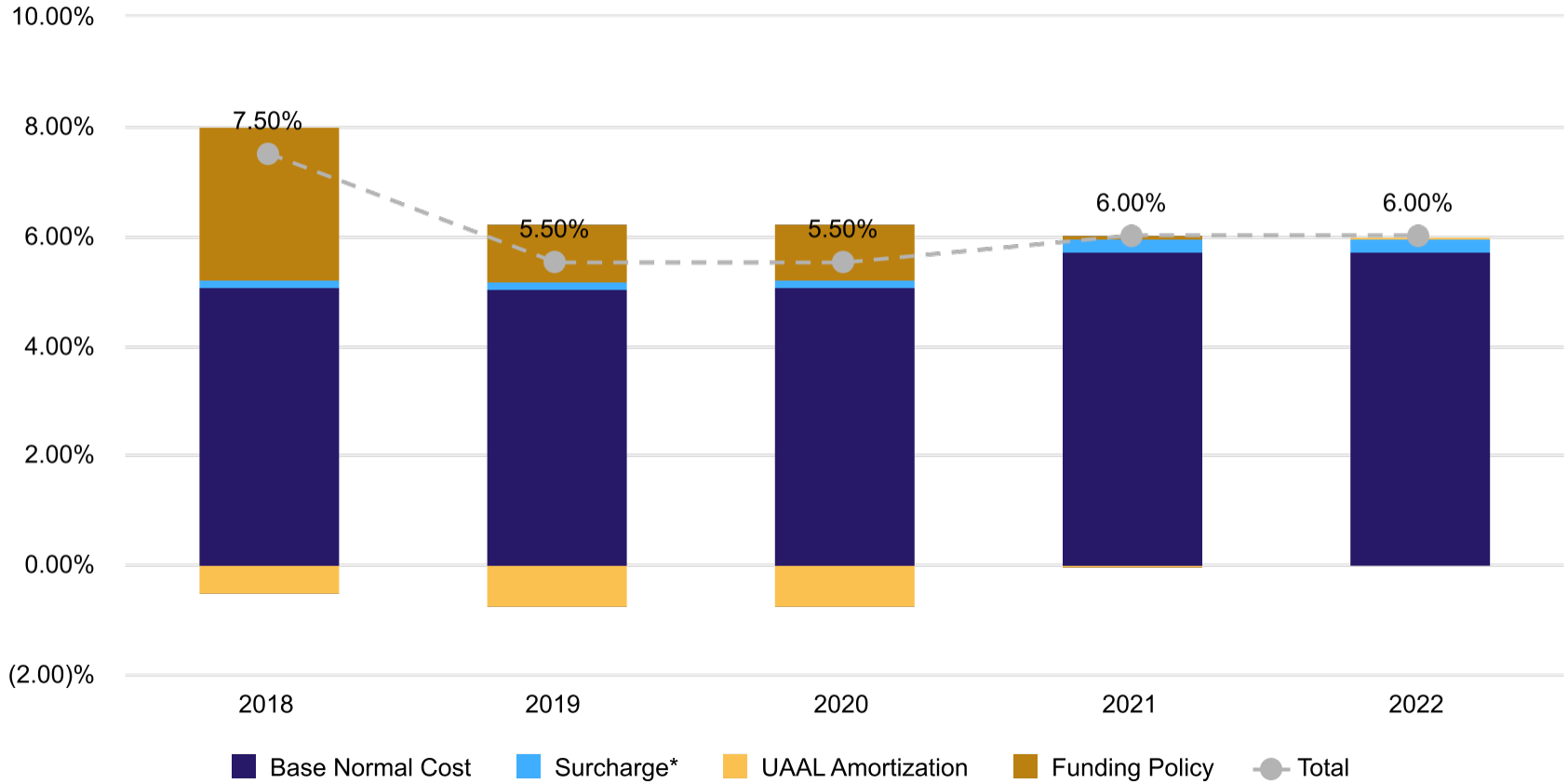
Contribution Rates - PERF



*Postretirement benefit increase funding (surcharge) split out starting in 2018

Contribution Rates - TRF '96

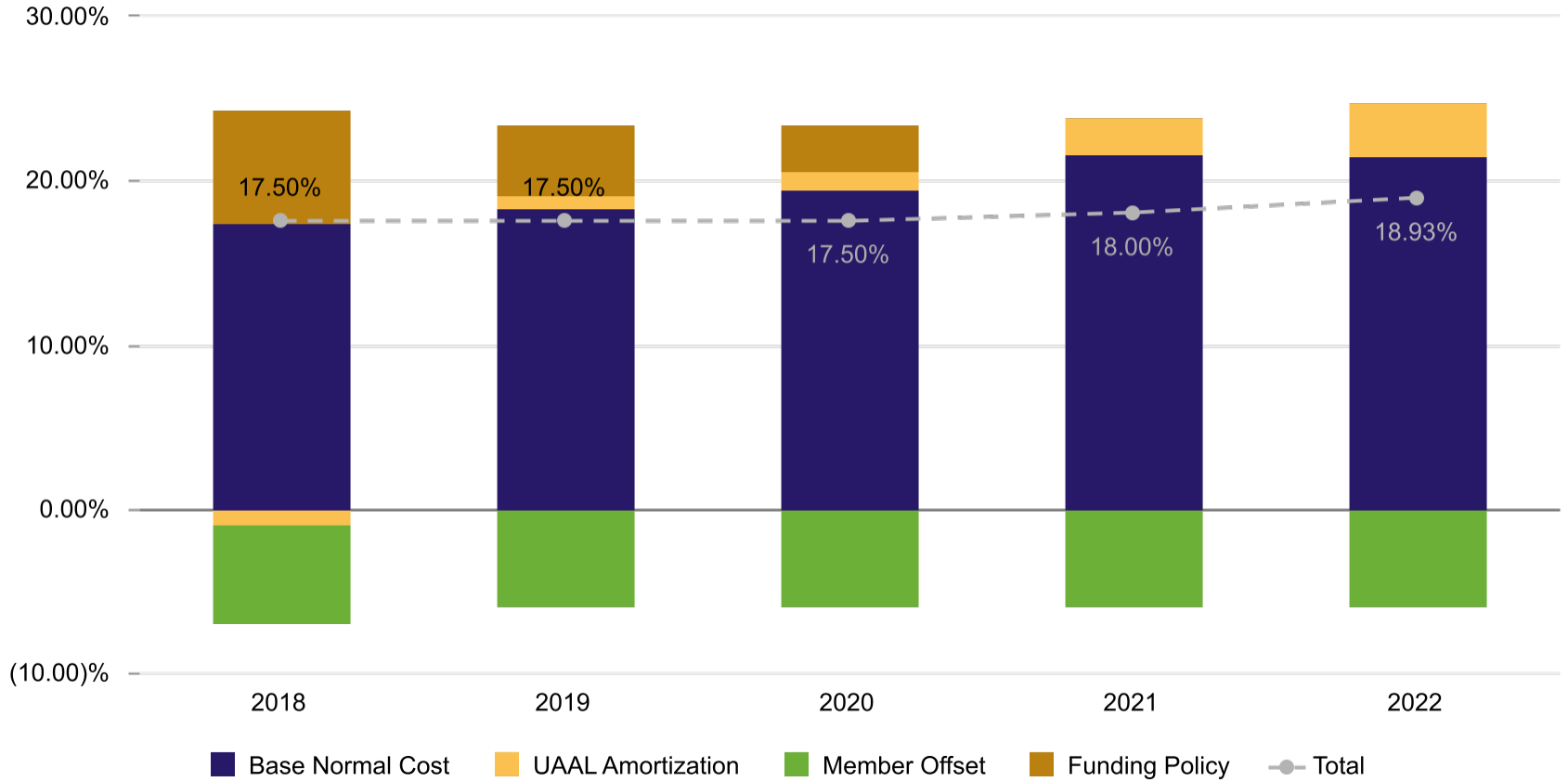
TRF '96 Contribution Rate Breakout



*Postretirement benefit increase funding (surcharge) split out starting in 2018

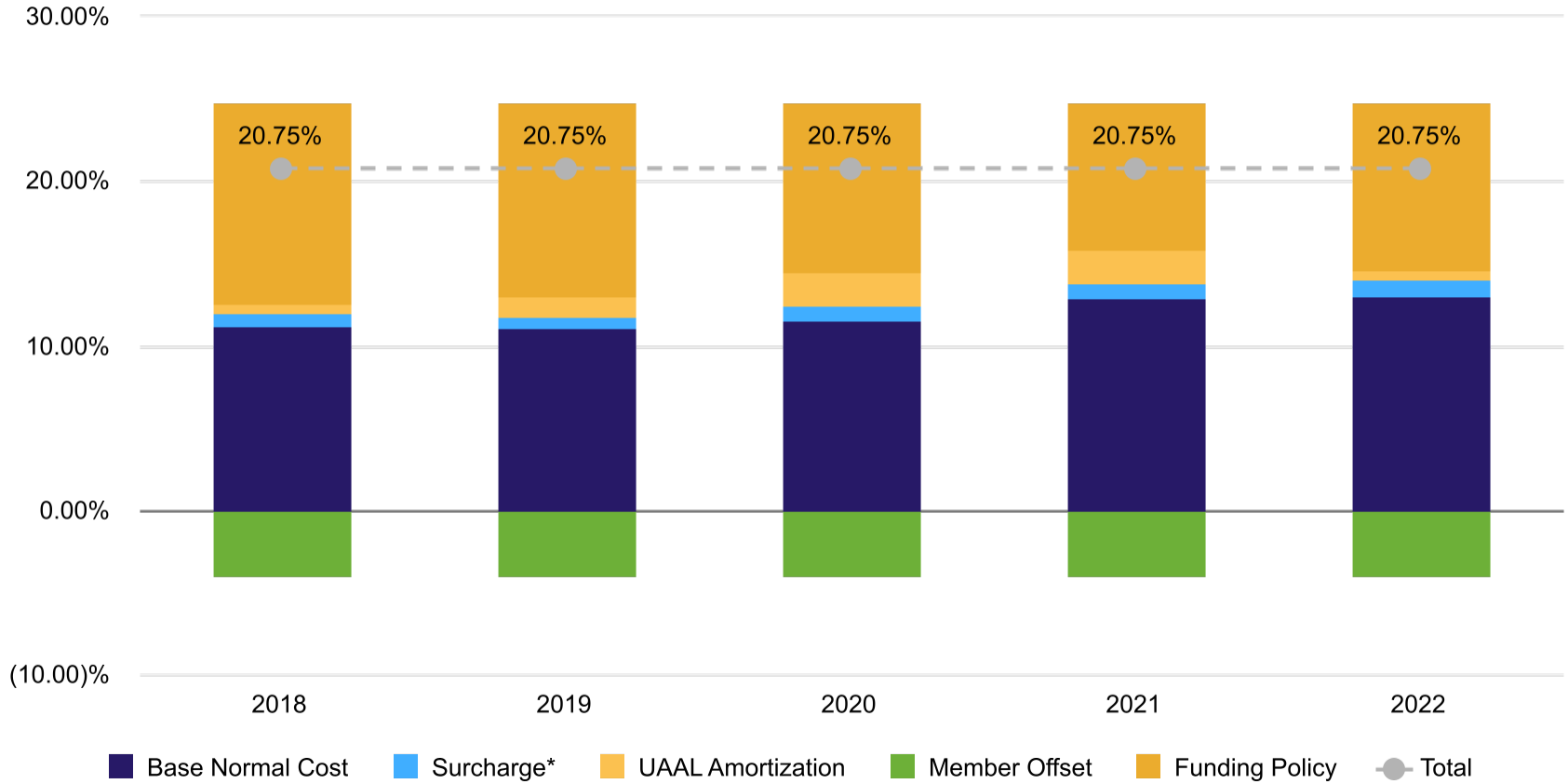
Contribution Rates - '77 Fund

'77 Fund Contribution Rate Breakout



Contribution Rates - EG&C

EG&C Fund Contribution Rate Breakout



*Postretirement benefit increase funding (surcharge) split out starting in 2018

My Choice: DC Contribution Rate

- As of January 1, 2013, all PERF State new hires may elect to participate in the DB Hybrid or My Choice
- As of July 1, 2016, PERF political subdivisions may offer My Choice to new members
- As of July 1, 2019 TRF '96 began offering My Choice to new members
- Overview of My Choice plans' benefits:
 - Member contribution rate fixed at 3%
 - Employer contribution rate will be the same as DB contribution rate with two components:
 - Crediting rate to the member's My Choice shall be at least 3.0% and not greater than the normal cost of the fund*
 - Any amount not credited to the member's account shall be applied to the Unfunded Actuarial Accrued Liability (UAAL) of the relevant fund.



* Normal cost represents the current year's cost of defined benefit growth due to new service and pay being factored into the benefit calculation. State employees and teachers receive the entire normal cost, whereas political subdivisions receive a rate up to the normal cost as determined by the political subdivision.

My Choice: DC Contribution Rate

	PERF State (FY 2023)	PERF Political Sub (CY 2023)	TRF '96 (FY 2023)
Total Normal Cost, Rounded Down to 0.1%	4.2%	0.0% - 4.2%	6.0%
Total Employer Contribution Rate	11.2%	11.2%	6.0%
UAAL Contribution Rate	7.0%	7.0%	0.0%

- Normal cost represents the current year's cost of defined benefit growth due to new service and pay being factored into the benefit calculation.
- An additional 3% member contribution is required. The state pays the member's contribution on behalf of the member, while political subdivisions elect whether or not to pay the contribution on behalf of the member.

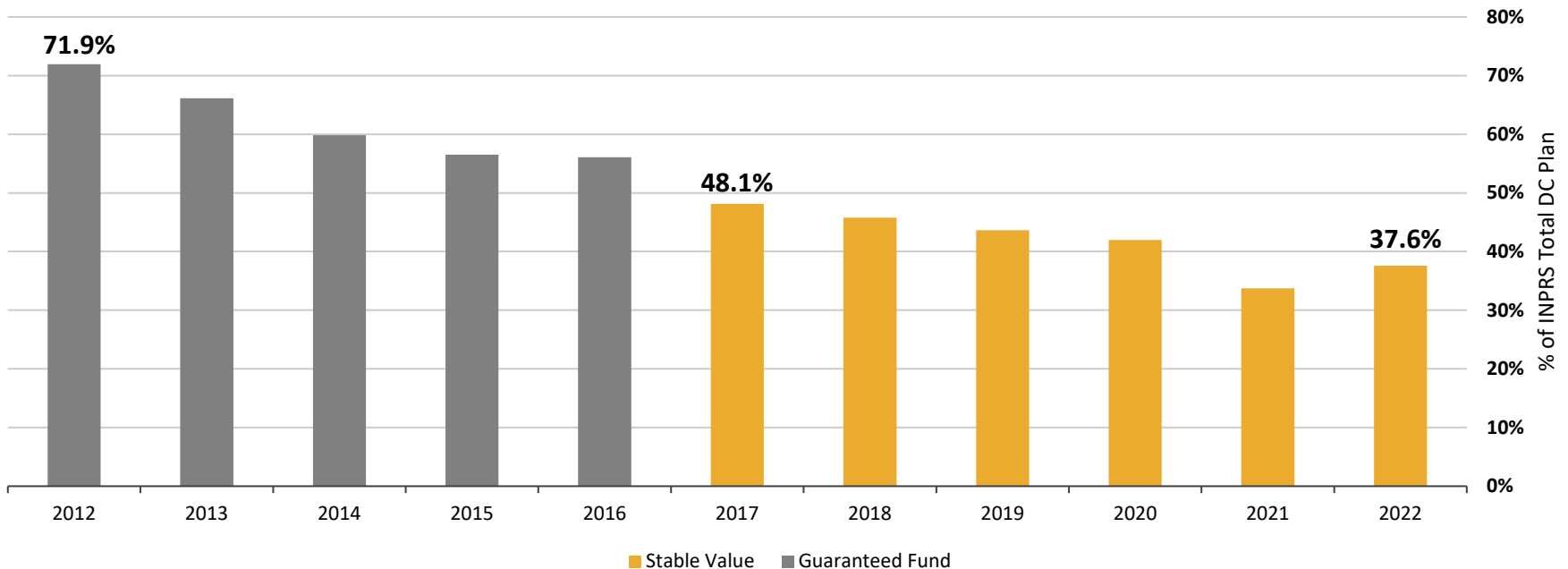


*The political subdivision normal cost is the maximum employer contribution to the member's account, but the Unfunded Actuarial Accrued Liability (UAAL) rate must be contributed in full.

Historic Stable Value Allocation

Stable Value has declined as a percentage of INPRS DC plan assets due to fewer contributions and underperformance relative to other options

Historical Stable Value (Core Menu) % of Total INPRS DC Assets

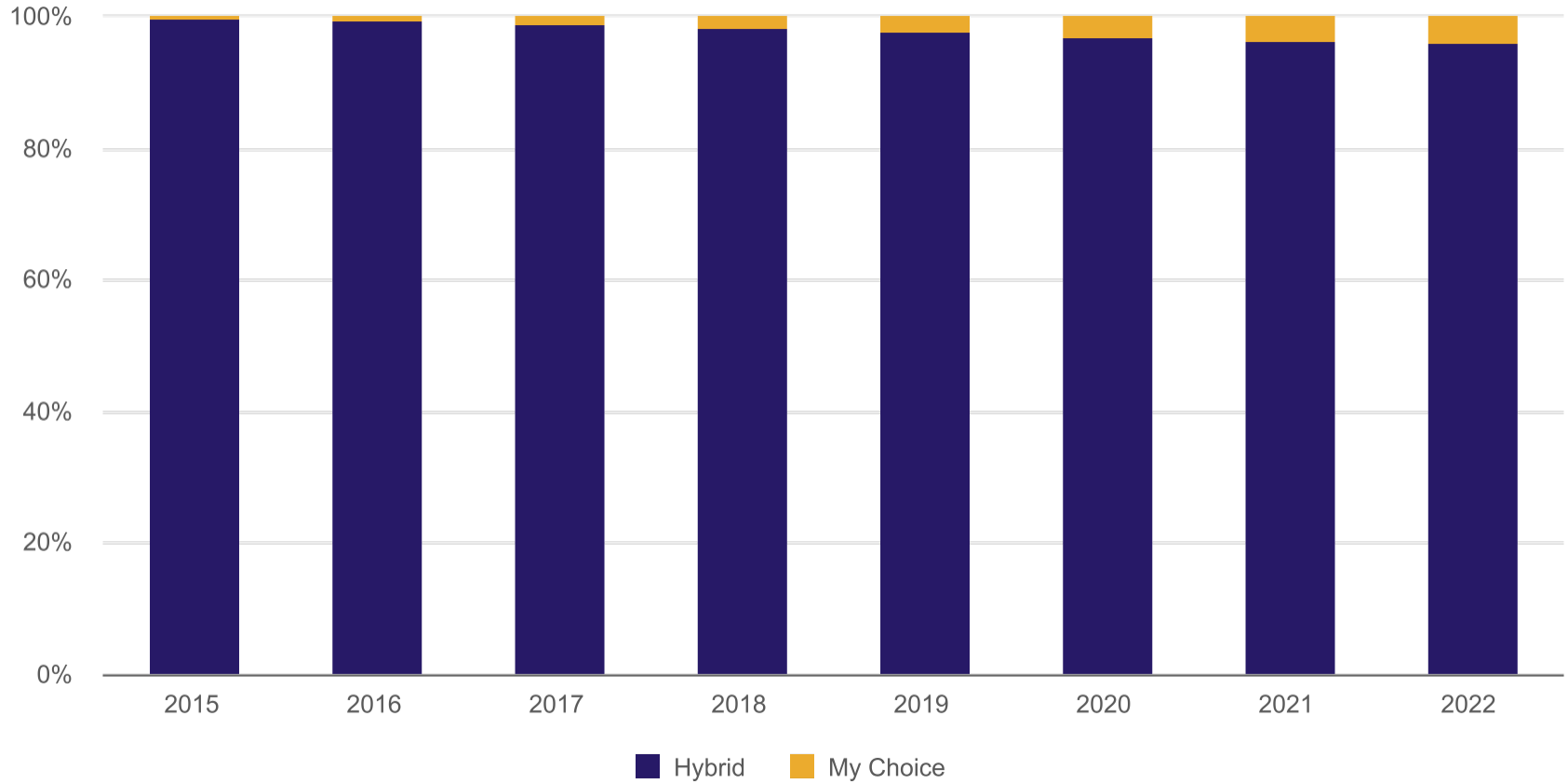


Sources & Notes: Historic INPRS Annual Reports using the applicable June 30th date of the fiscal years listed above including all defined contribution assets from the PERF Hybrid, PERF MyChoice, TRF Hybrid, TRF MyChoice, and LEDC plans (excludes RMBA). As of January 1, 2017, the Guaranteed Fund was closed and assets were mapped to the Stable Value Fund. The Guaranteed Fund was only available to the PERF Hybrid, TRF Hybrid plans; the LEDC plan could instead invest within Consolidated Defined Benefit Fund, the PERF MyChoice plan could invest in Stable Value, and the TRF MyChoice plan was created in 2019. Before 2017, the Stable Value Fund was only available to the PERF MyChoice and LEDC plans, however the amounts were relatively small so that they cannot be seen in the chart above; for instance, Stable Value core menu assets totaled \$1.1mm in 2012, or 0.02% of the aggregate INPRS DC plan of \$5.6bn. Stable Value Fund assets listed above are only core menu Stable Value Fund assets as opposed to Stable Value Fund exposure within the Target Date Funds.



PERF My Choice Payroll

Payroll Breakdown by Hybrid vs. My Choice



Teachers' Pre-1996 DB Account Update

- ▶ \$2.5 billion above baseline appropriations in FY 2023, then 3% year-over-year appropriations growth for FY 2024 - FY 2025

(\$ Millions)

	Actual				Forecast		
	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Benefit Payments	\$(1,165.1)	\$(1,174.4)	\$(1,178.7)	\$(1,164.3)	\$(1,198.1)	\$(1,200.5)	\$(1,202.0)
Base Appropriation General Fund	\$892.2	\$919.0	\$946.6	\$975.0	\$1,005.0	\$1,035.2	\$1,066.2
Amount Withdrawn	\$(272.9)	\$(255.4)	\$(232.1)	\$(189.3)	\$(193.1)	\$(165.3)	\$(135.8)
SRA Appropriations (Lottery Transfer)	\$30.0	\$30.0	\$30.0	\$30.0	\$30.0	\$30.0	\$30.0
Investment Gains / (Losses)	\$269.0	\$107.7	\$996.8	\$(336.9)	\$393.3	\$486.5	\$509.4
13th Check/COLA Prefunding	\$21.7	\$22.1	\$21.8	\$—	\$—	\$—	\$—
Other Income / Expenses	\$0.1	\$(2.4)	\$597.1	\$544.1	\$2,500.0	\$0.0	\$0.0
Net Position	\$3,759.2	\$3,661.2	\$5,074.8	\$5,122.7	\$7,852.9	\$8,204.1	\$8,607.7

Supplemental Reserve Accounts (SRAs)

Background

- As of June 30th, 2018 any postretirement benefit increases (including a 13th Check and/or COLA) granted by the General Assembly must be prefunded through available funds in segregated supplemental allowance reserve accounts (SRAs) for PERF DB, TRF Pre-'96 DB, TRF '96 DB, EG&C, and LE DB (IC 5-10.5-4-5).

Previously

- Postretirement benefit increases (PBI) were granted by the General Assembly on an ad hoc basis
- Increases were paid out of plan assets
- No income sources were segregated for the sole purpose of PBI

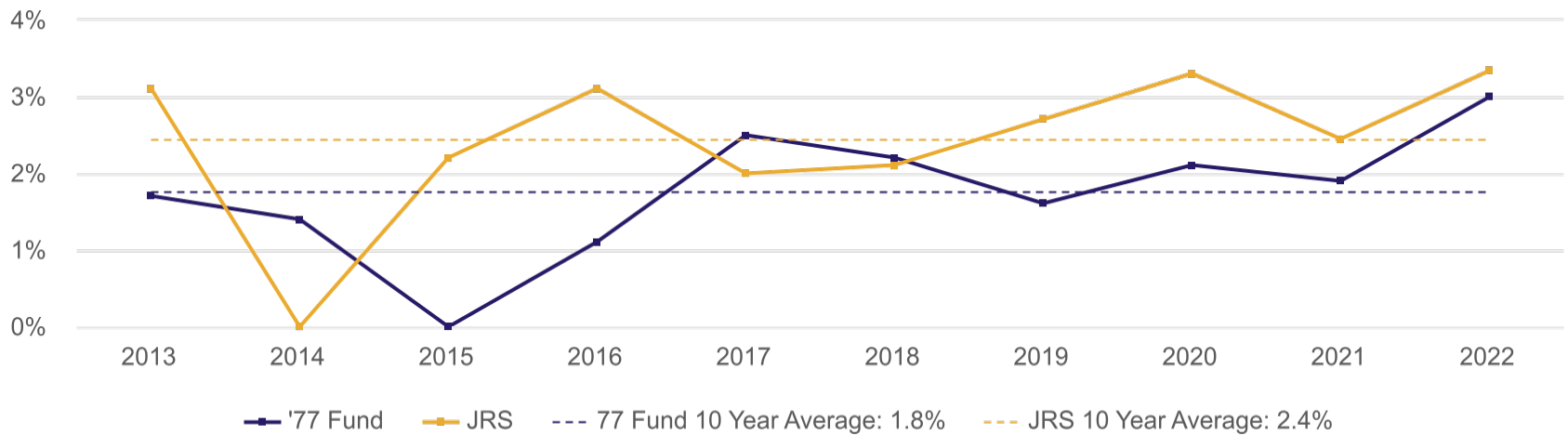
2021 Budget session updates

- HEA 1001-2021 provided a 1% COLA in 2022
- HEA 1001-2021 provided an additional \$50M to ensure that the SRA assets exceeded the SRA liabilities
- IC 2-3.5-4-13 provides that the COLA applies to LE DB

Auto COLA History

Effective July 1st

Fund	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	AVG
'77 Fund (CPI, maximum 3.0%)	1.7 %	1.4 %	0.0 %	1.1 %	2.5 %	2.2 %	1.6 %	2.1 %	1.9 %	3.0 %	1.8 %
JRS (changes in salary of the position)	3.1 %	0.0 %	2.2 %	3.1 %	2.0 %	2.1 %	2.7 %	3.3 %	2.5 %	3.3 %	2.4 %



INPRS's Asset Allocation Process

"The Board is required by law to invest the System's 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 is also required to diversify such 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's 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.

Purposes of the Asset Classes Outside of Stocks & Bonds

Private Markets

To provide risk-adjusted returns in excess of public markets through various strategies (e.g., driving operational improvements at the invested companies).

Real Assets

To provide attractive risk-adjusted returns by producing stable income and preserving capital. It also serves as a diversifier and protection against inflation in certain environments.

Absolute Return

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

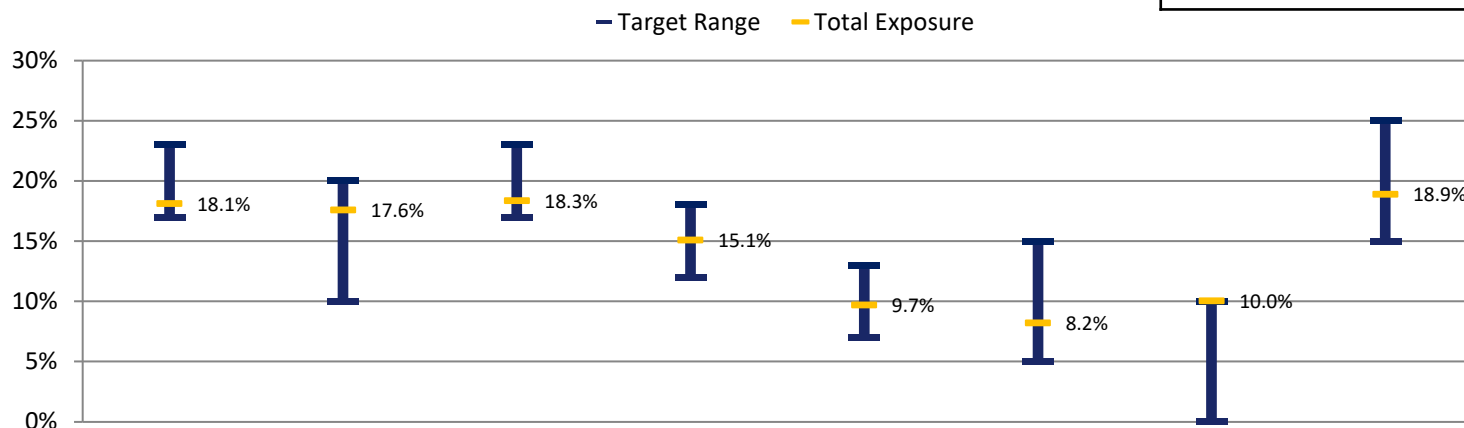
Commodities

To provide protection when inflation is higher than expected and linked to goods / inputs.

Asset Allocation & Performance

As of June 30, 2022

Total Exposure	116.2%
Target Exposure	115.0%
Max Exposure	120.0%

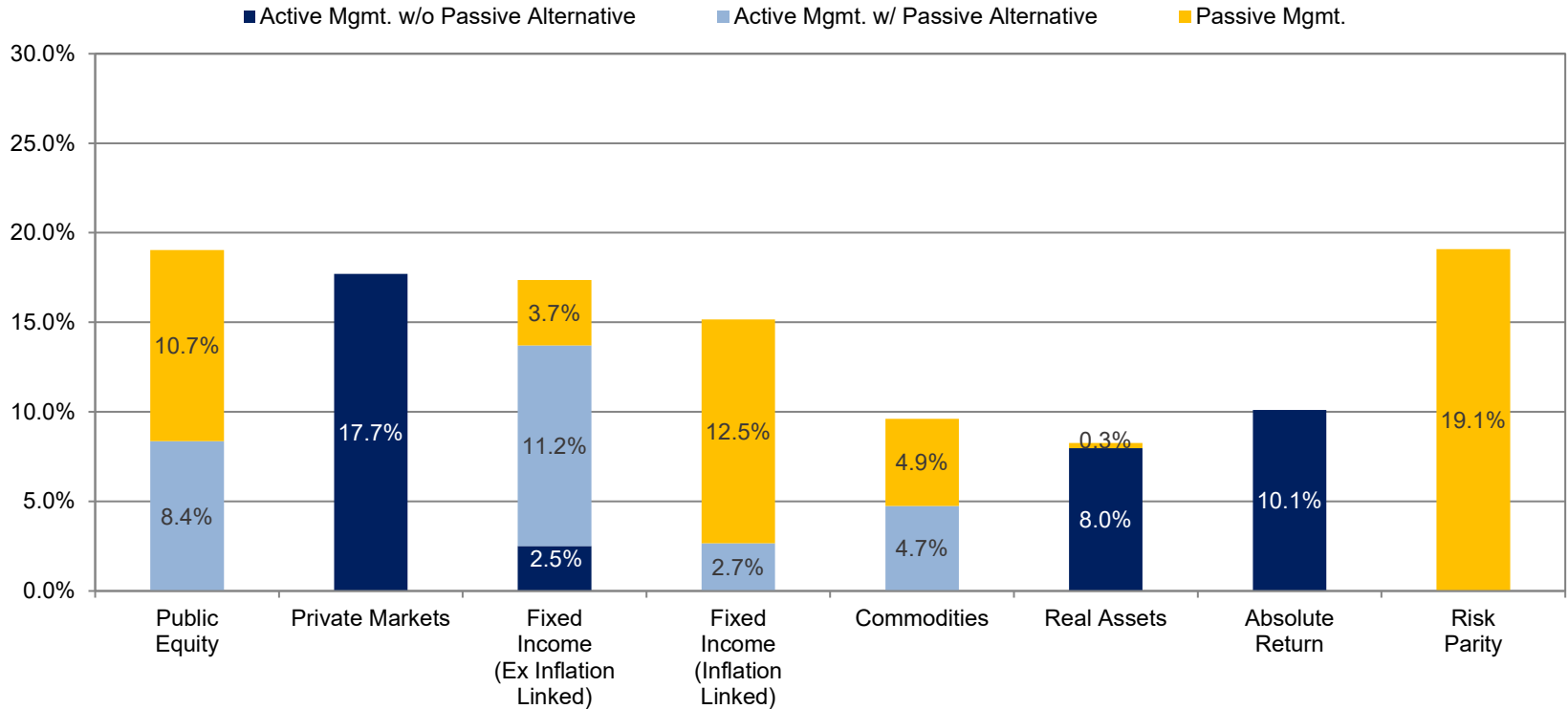


	Public Equity	Private Markets	Fixed Income (Ex Inflation-Linked)	Fixed Income (Inflation-Linked)	Commodities	Real Assets	Absolute Return	Risk Parity
1 Year Return	-17.21%	11.41%	-17.06%	-7.44%	9.63%	17.88%	8.20%	-16.63%
3 Year Return	6.62%	19.00%	-2.03%	4.07%	7.56%	12.19%	6.80%	2.09%
5 Year Return	7.36%	18.67%	0.91%	4.75%	6.87%	11.48%	6.02%	4.52%
10 Year Return	9.37%	15.43%	2.41%	3.01%	-2.39%	11.04%	5.55%	4.09%



Total Exposure = Physical Exposure + Asset Class Derivatives + Cash Overlay Derivatives. The following manager accounts have derivatives: Parametric Equity, Parametric Bonds, PIMCO Long Government, Bridgewater Global Inflation-Linked, all Commodities accounts, and Parametric Overlay. Numbers may not add up to 100.0% due to rounding. Private Markets consists of 13.4% Private Equity and 4.2% Private Credit. Real Assets consists of 7.8% Real Estate and 0.4% Infrastructure. Asset class returns are notional returns where applicable, with the exception of portable alpha exposures embedded within PIMCO Long Government and Bridgewater Global Inflation-Linked.

INPRS's Split Between Active & Passive Portfolios



Actual asset allocation as of June 30, 2022. Cash excluded from the analysis.

INPRS's Return Projections

	INPRS's Target Weight ¹	Projected 30-yr Returns ² (December 2021)
U.S. Inflation		2.0%
Public Equity	20.0%	5.6%
Private Markets	15.0%	9.7%
Fixed Income ex-Inflation Linked	20.0%	3.4%
Fixed Income Inflation Linked	15.0%	1.7%
Commodities	10.0%	2.9%
Real Assets	10.0%	5.7%
Absolute Return	5.0%	4.1%
Risk Parity	20.0%	5.8%
Leverage Offset	-15.0%	0.3%
30-yr Projected Return³		6.2 - 6.5%



¹Board approved asset allocation to major asset classes at the May 2021 Board meeting. ²Source: Annualized, geometric real return Verus forecasts plus INPRS's 2.0% inflation assumption. ³The lower end of the total return range equals INPRS's inflation assumption plus Verus's real return. The higher end of the total return range equals INPRS's inflation assumption plus Verus's real return, plus INPRS's alpha assumption.

FY22 Defined Benefit Investment Management & Performance Fees¹

0.51% of INPRS's Total DB Market Value²

\$23.4M Passive Fees

+ \$44.5M Active Mgmt. + Performance Fees in Public Asset Classes³

+ \$135.4M Alternative Asset Class Mgmt. + Performance Fees⁴

= \$203.4M Total INPRS Investment Mgmt. + Performance Fees

CEM Benchmarking, an industry-leader in evaluating the efficiency of public pensions, analyzed INPRS's CY20 investment management fees. INPRS's fees were slightly lower than peers after adjusting for asset allocation differences between plans.



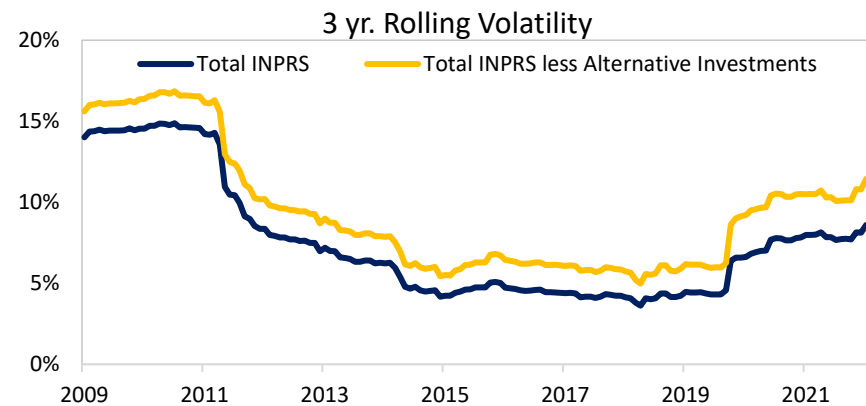
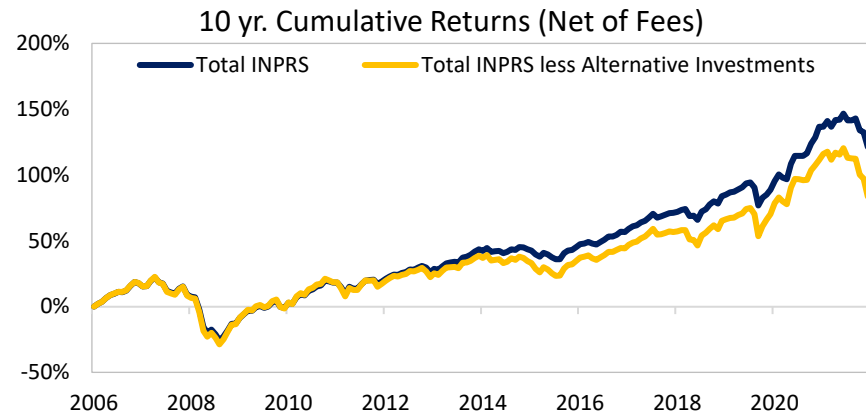
¹Unaudited estimates. ²Based on average market values of the individual portfolios throughout the year. ³Includes performance fees for Public Equity and Fixed Income asset classes. ⁴Includes performance fees for Absolute Return asset class.

Alternative Investments

Although more expensive than merely investing in public markets, alternative investments¹ have had two positive results:

INPRS's total returns have been higher than they would have been without alternative investments²...

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

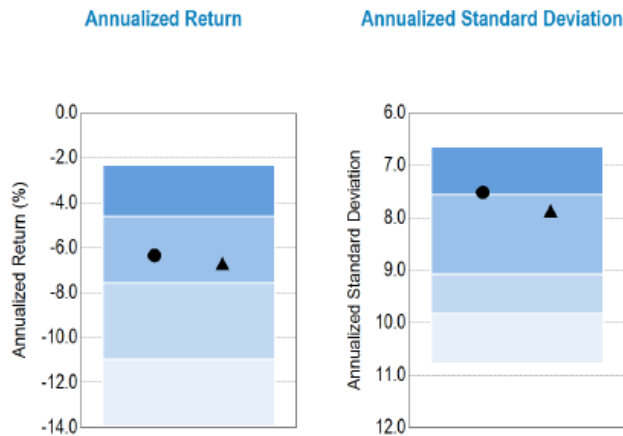


¹Alternative investments include Private Equity, Real Estate, and Absolute Return. ²Assumed that any allocation to alternative investments would have been allocated pro-rata to the remaining asset classes based on INPRS's asset allocation.

Peer Comparisons

INPRS vs InvestorForce Public DB > \$1B Net Universe

1 Year (Net of Fees)



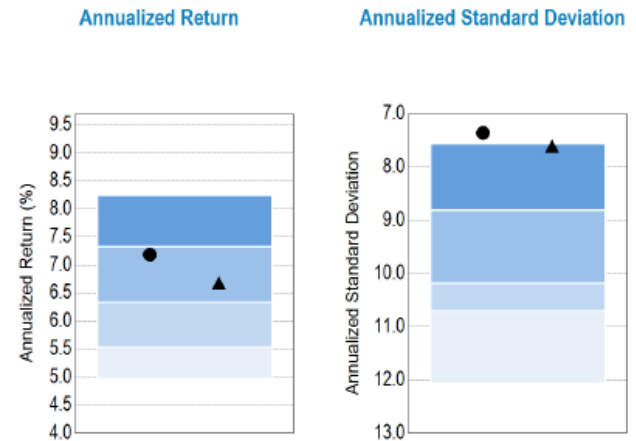
● Total Fund	
Value	-6.3
Rank	41
▲ Policy Index w/ Notional	
Value	-6.7
Rank	44

Universe	
5th %tile	-2.3
25th %tile	-4.6
Median	-7.6
75th %tile	-10.9
95th %tile	-13.9
Observations	34

● Total Fund	
Value	7.5
Rank	24
▲ Policy Index w/ Notional	
Value	7.9
Rank	32

Universe	
5th %tile	6.7
25th %tile	7.5
Median	9.1
75th %tile	9.8
95th %tile	10.8
Observations	34

5 Years (Net of Fees)



● Total Fund	
Value	7.2
Rank	29
▲ Policy Index w/ Notional	
Value	6.7
Rank	46

Universe	
5th %tile	8.2
25th %tile	7.3
Median	6.3
75th %tile	5.5
95th %tile	5.0
Observations	33

● Total Fund	
Value	7.4
Rank	4
▲ Policy Index w/ Notional	
Value	7.6
Rank	6

Universe	
5th %tile	7.6
25th %tile	8.8
Median	10.2
75th %tile	10.7
95th %tile	12.1
Observations	33



Source: Verus. Period ending June 30, 2022.

Defined Contribution Performance

Net of Fees as of June 30, 2022

	Market Value (\$MM)	% of DC	Cal YTD	1 Year	3 Year	5 Year
Large Cap Equity Index Fund	1,216	19.1	-19.98	-10.64	10.60	11.31
<i>S&P 500 Index</i>			<i>-19.96</i>	<i>-10.62</i>	<i>10.60</i>	<i>11.31</i>
Small/Mid Cap Equity Fund	680	10.7	-27.31	-28.09	4.94	6.71
<i>Russell Small Cap Completeness Index</i>			<i>-27.21</i>	<i>-28.53</i>	<i>5.25</i>	<i>6.88</i>
International Equity Fund	221	3.5	-19.51	-20.65	2.33	3.37
<i>MSCI ACWI ex US IMI Index¹</i>			<i>-19.08</i>	<i>-19.86</i>	<i>1.55</i>	<i>2.56</i>
Fixed Income Fund	152	2.4	-10.70	-10.66	-0.65	1.08
<i>Bloomberg US Aggregate Index</i>			<i>-10.35</i>	<i>-10.29</i>	<i>-0.93</i>	<i>0.88</i>
Inflation Linked Fixed Income Fund	51	0.8	-8.93	-5.13	3.07	3.26
<i>Bloomberg US TIPS Index</i>			<i>-8.92</i>	<i>-5.14</i>	<i>3.04</i>	<i>3.21</i>
Stable Value Fund	2,269	35.6	0.92	1.88	2.21	2.18
<i>3yr Constant Maturity Treasury</i>			<i>1.16</i>	<i>1.48</i>	<i>0.96</i>	<i>1.49</i>
Money Market Fund	68	1.1	0.16	0.17	0.58	1.12
<i>FTSE 3 Month T-Bill Index</i>			<i>0.17</i>	<i>0.19</i>	<i>0.61</i>	<i>1.09</i>
Target Date Funds²	1,342	21.1				
PERF, TRF, & LEDC PLANS	5,999	94				
Retirement Medical Benefits Account³	372	5.8	-6.77	-7.28	-0.44	
<i>Bloomberg Intermediate Gov/Credit Index</i>			<i>-6.77</i>	<i>-7.28</i>	<i>-0.16</i>	
TOTAL DC ASSETS⁴	6,371	100				



¹Reported benchmark includes the MSCI ACWI ex US Index prior to 2/1/2019 and the MSCI ACWI ex US IMI Index on and after 2/1/2019. ²Total assets in the PERF, TRF and LEDC plans. ³Not an available investment option for DC Plan participants. ⁴Includes Fixed Value and Transition Account balances following transition to Voya from Conduent. Numbers may not add up due to rounding.

Target Date Funds Performance

Net of Fees as of June 30, 2022

	Market Value (\$MM)	% of Target Date Funds	Cal YTD	1 Year	3 Year	5 Year
2065 Fund	2	0.1	-19.15	-16.40		
<i>2065 Fund Index</i>			<i>-19.05</i>	<i>-16.22</i>		
2060 Fund	95	7.1	-19.15	-16.39	5.89	6.40
<i>2060 Fund Index</i>			<i>-19.05</i>	<i>-16.22</i>	<i>5.30</i>	<i>5.96</i>
2055 Fund	203	15.1	-19.15	-16.40	5.88	6.40
<i>2055 Fund Index</i>			<i>-19.05</i>	<i>-16.22</i>	<i>5.30</i>	<i>5.96</i>
2050 Fund	189	14.1	-18.97	-16.23	5.95	6.44
<i>2050 Fund Index</i>			<i>-18.87</i>	<i>-16.04</i>	<i>5.36</i>	<i>5.99</i>
2045 Fund	156	11.6	-18.44	-15.74	5.73	6.30
<i>2045 Fund Index</i>			<i>-18.36</i>	<i>-15.58</i>	<i>5.13</i>	<i>5.85</i>
2040 Fund	152	11.3	-17.66	-15.02	5.61	6.19
<i>2040 Fund Index</i>			<i>-17.59</i>	<i>-14.87</i>	<i>4.97</i>	<i>5.71</i>
2035 Fund	162	12.1	-16.55	-13.99	5.23	5.79
<i>2035 Fund Index</i>			<i>-16.50</i>	<i>-13.87</i>	<i>4.55</i>	<i>5.30</i>
2030 Fund	154	11.5	-15.60	-13.08	4.82	5.18
<i>2030 Fund Index</i>			<i>-15.61</i>	<i>-13.02</i>	<i>4.12</i>	<i>4.70</i>
2025 Fund	142	10.6	-14.71	-12.23	4.73	4.78
<i>2025 Fund Index</i>			<i>-14.71</i>	<i>-12.16</i>	<i>4.06</i>	<i>4.33</i>
2020 Fund	57	4.2	-13.31	-11.01	4.18	4.19
<i>2020 Fund Index</i>			<i>-13.33</i>	<i>-10.98</i>	<i>3.47</i>	<i>3.72</i>
2015 Fund	13	1.0	-12.13	-9.91	3.54	
<i>2015 Fund Index</i>			<i>-12.32</i>	<i>-10.08</i>	<i>2.80</i>	
Retirement Fund	17	1.3	-11.09	-8.99	2.82	3.23
<i>Retirement Fund Index</i>			<i>-11.06</i>	<i>-8.97</i>	<i>2.25</i>	<i>2.85</i>
TOTAL TARGET DATE FUNDS¹	1,342	100				

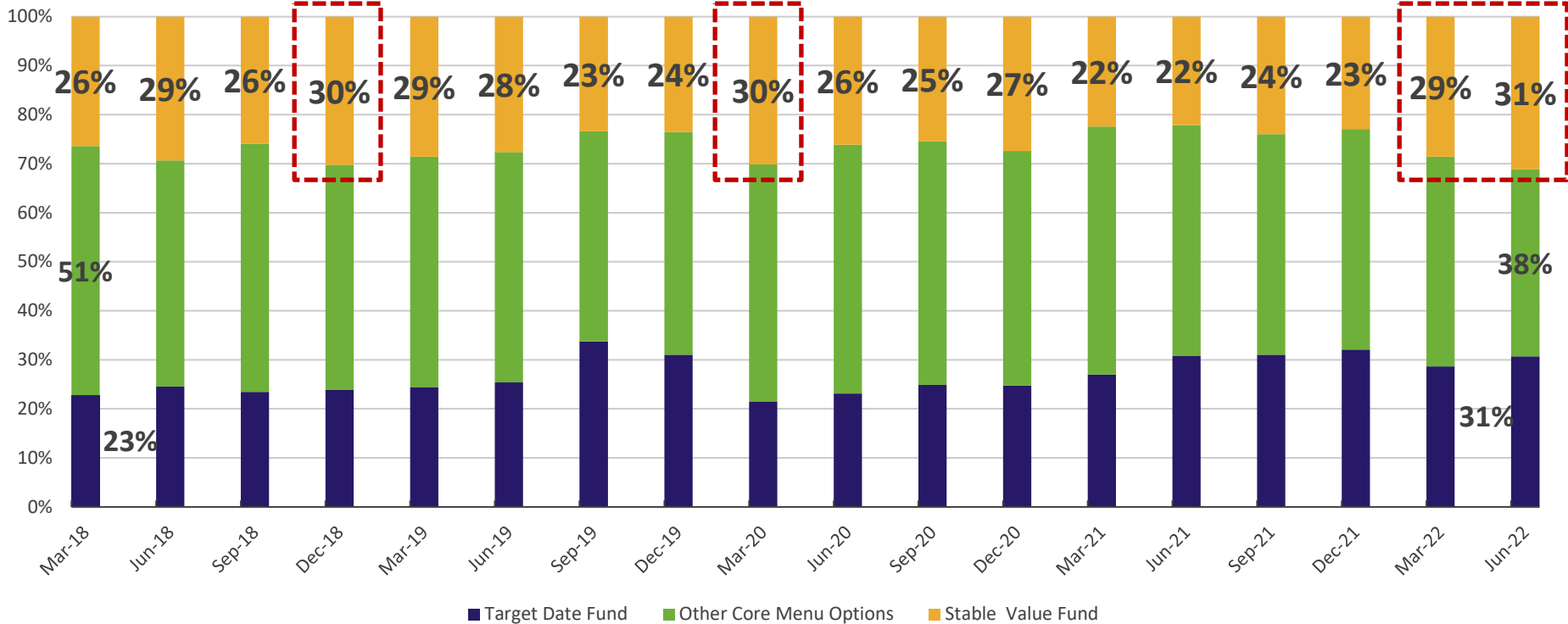
¹Target Date Fund rebalance was completed from July to September 2019. The figures above are reflective of actual performance for each of the funds. Numbers may not add up due to rounding.



Historic DC Contributions

Though on a long-term decline, Stable Value contributions tend to increase during periods of market stress

INPRS DC Quarterly Contributions & Transfers by Participant Option



Sources & Notes: VOYA Quarterly Executive Committee Reports. Includes PERF Hybrid, PERF MyChoice, TRF Hybrid, TRF MyChoice, and LEDC plans. Includes salary contributions and fund-to-fund transfers for all "new money" into each participant option by quarter.

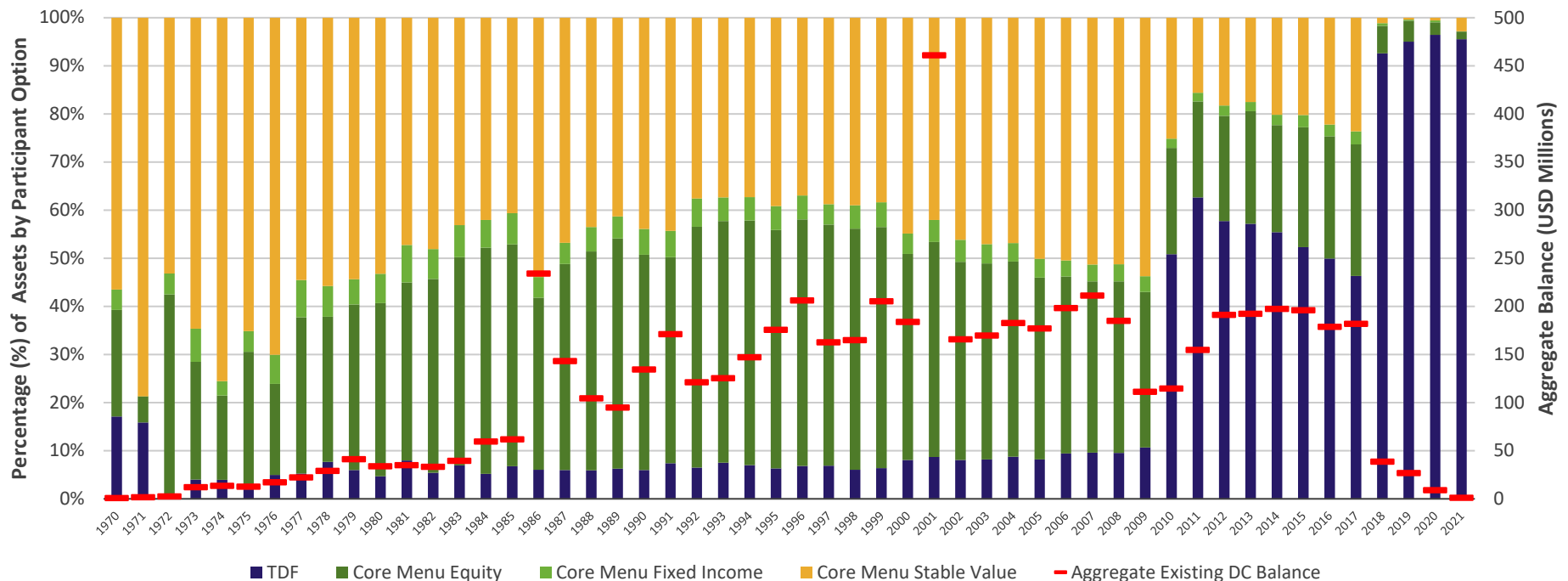
Today's Balance by Hire Year

Recent hire balances are weighted toward Target Date Funds (TDFs) following the creation of the TDFs as the default option in 2010 and the elimination of the Guaranteed Fund in 2016

Existing DC Participant Balances (Active & Inactive) by Covered Employment Hire Year

Left Axis: Percentage by Participant Option (%)

Right Axis: Aggregate Balance (\$ Millions)



Sources & Notes: VOYA and INPRS. Includes all active and inactive INPRS participants with an existing balance at VOYA. Balance as of June 30, 2021. INPRS DC participants hired into covered employment before 1970 are excluded from the chart above.

Sudan, Terror States, and Anti-Israel BDS Divestment Statutes

IC 5-10.2-9 (Sudan Divestment)

If a company continues to have scrutinized active business operations 90 days after the Fund first sends written notice to the company, the Fund shall sell, redeem, divest, or withdraw all publicly traded securities of the company that are held by the Fund, as follows:

- At least 50% in 9 months
- 100% in 15 months

IC 5-10.2-10 (Terror States Divestment)

If a company continues to have scrutinized active business operations 180 days after the Fund first sends written notice to the company, the Fund shall sell, redeem, divest, or withdraw all publicly traded securities of the company that are held by the Fund, as follows:

- At least 50% in 3 years
- At least 75% in 4 years
- 100% in 5 years

IC 5-10.2-11 (Anti-Israel BDS Divestment)

If a company continues to engage in boycott, divest from, or sanction Israel activity 90 days after the Fund first sends written notice to the company, the Fund shall sell, redeem, divest, or withdraw all publicly traded securities of the company that are held by the Fund, as follows:

- At least 50% in 9 months
- 100% in 15 months

Sudan, Terror States, and Anti-Israel BDS Holdings for Divestment Update 2022

	DB Market Value as of 6/30/2022		DC Market Value as of 6/30/2022	
IC 5-10.2-9 (Sudan Divestment)	\$	207,142.03	\$	2,592,587.17
IC 5-10.2-10 (Terror States Divestment)		1,812,849.42		9,043,765.69
IC 5-10.2-11 (Anti-Israel BDS Divestment)		2,255.16		371,141.14
Grand Total	\$	2,022,246.61	\$	12,007,494.00

Holdings under Sudan, Terror States, and Anti-Israel BDS mandates for divestment represent 0.03% of INPRS's assets

Public Employees' Defined Benefit Account (PERF DB) Fund Overview

(dollars in millions)

Estimate as of June 30, 2022

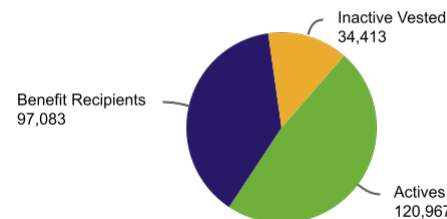
Membership:	Full-time employees of the state and participating political subdivisions	Unfunded Actuarial Accrued Liability:	\$2,721
Type:	Hybrid Defined Benefit (DB)	Actuarial Funded Status:	84.9 %

Benefits ¹			
Actual	Projected Benefit Payments ²		
FY2022	FY2023	FY2024	FY2025
\$950.0	\$1,048.4	\$1,090.3	\$1,132.0

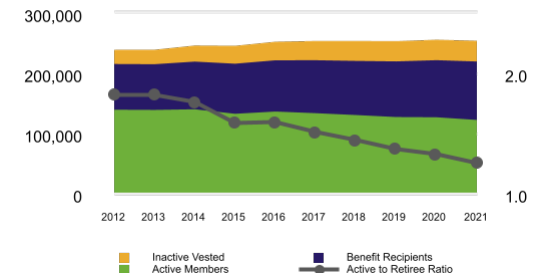
Formula	1.1% X Avg. High 5 Year Salary X Years Service
Vesting	DB - 10 years
Full Retirement	Age 65 with 10 years service, age 60 with 15 years service, or age 55 with Rule of 85
Avg. Annual Retiree Benefit (as of 2021 with ASA)	\$9,497

Funding					
Contribution/Appropriation		Actual	Projected Contributions		
Source	Rate	FY2022	FY2023	FY2024	FY2025
General Fund	N/A				
State of Indiana	11.2%	\$209.7	\$206.8	\$210.4	\$213.2
Political Subdivisions	11.2%	\$419.5	\$413.5	\$420.7	\$426.4
Total		\$629.2	\$620.3	\$631.1	\$639.6

Data as of June 30, 2021



Data as of June 30, 2021



¹ Actual and projected benefit payments include ASA annuity payments.
² Based on preliminary 6/30/2022 actuarial valuation. Projected amounts could change.

Teachers' 1996 Defined Benefit Account (TRF '96 DB) Fund Overview

(dollars in millions)

Estimate as of June 30, 2022

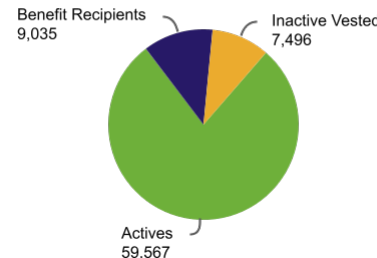
Membership:	Teachers of K12 public schools and certain state universities hired after to 7/1/1995	Unfunded Actuarial Accrued Liability:	\$435.9
Type:	Hybrid Defined Benefit (DB)	Actuarial Funded Status:	94.7 %

Benefits ¹			
Actual	Projected Benefit Payments ²		
FY2022	FY2023	FY2024	FY2025
\$168.6	\$194.4	\$210.9	\$229.2

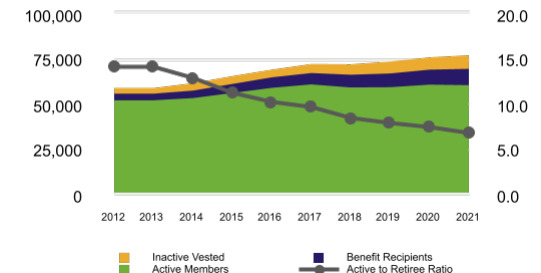
Formula	1.1% X Avg. High 5 Year Salary X Years Service	
Vesting	DB - 10 years	
Full Retirement	Age 65 with 10 years service, age 60 with 15 years service, or age 55 with Rule of 85	
Avg. Annual Retiree Benefit (as of 2021 with ASA)	\$17,380	

Funding					
Contribution/Appropriation		Actual	Projected Contributions		
Source	Rate	FY2022	FY2023	FY2024	FY2025
Employer	6.0 %	\$211.1	\$226.4	\$232.5	\$239.0
General Fund		\$0.0	\$0.0	\$0.0	\$0.0
Total		\$211.1	\$226.4	\$232.5	\$239.0

Data as of June 30, 2021



Data as of June 30, 2021



¹ Actual and projected benefit payments include ASA annuity payments.
² Based on preliminary 6/30/2022 actuarial valuation. Projected amounts could change.

Teachers' Pre-1996 Defined Benefit Account (TRF Pre-'96 DB) Fund Overview

(dollars in millions)

Estimate as of June 30, 2022

Membership:	Teachers of K12 public schools and certain state universities hired prior to 7/1/1995	Unfunded Actuarial Accrued Liability:	\$8,783.8
Type:	Hybrid Defined Benefit (DB)	Actuarial Funded Status:	37.5 %

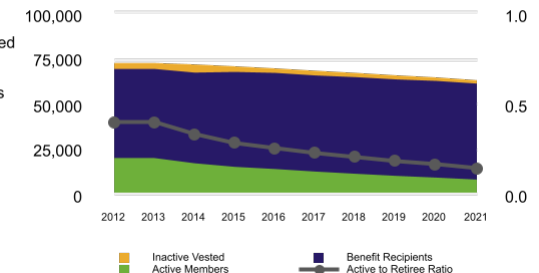
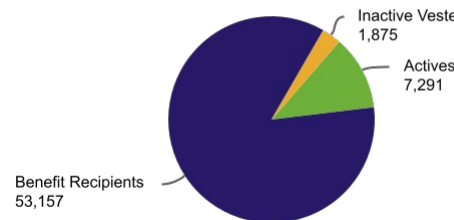
Benefits ¹			
Actual	Projected Benefit Payments ²		
FY2022	FY2023	FY2024	FY2025
\$1,164.3	\$1,198.1	\$1,200.5	\$1,202.0

Formula	1.1% X Avg. High 5 Year Salary X Years Service	
Vesting	DB - 10 years	
Full Retirement	Age 65 with 10 years service, age 60 with 15 years service, or age 55 with Rule of 85	
Avg. Annual Retiree Benefit (as of 2021 with ASA)	\$21,725	

Funding					
Contribution/Appropriation		Actual	Projected Contributions		
Source	Rate	FY2022	FY2023	FY2024	FY2025
General Fund	N/A	\$1,520.4	\$3,505.0	\$1,035.2	\$1,066.2
General Fund -13th Check/SRA	N/A	\$0.0	\$0.0	\$0.0	\$0.0
Lottery	N/A	\$30.0	\$30.0	\$30.0	\$30.0
Employer	N/A	\$2.3	\$0.0	\$0.0	\$0.0
Total		\$1,552.7	\$3,535.0	\$1,065.2	\$1,096.2

Data as of June 30, 2021

Data as of June 30, 2021



¹ Actual and projected benefit payments include ASA annuity payments.
² Based on preliminary 6/30/2022 actuarial valuation. Projected amounts could change.

1977 Police Officers' and Firefighters' Retirement Fund ('77 Fund) Fund Overview

(dollars in millions)

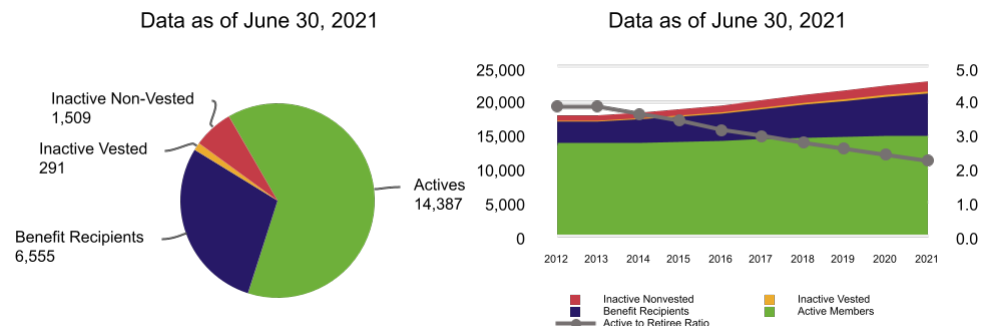
Estimate as of June 30, 2022

Membership:	Local full-time police and firefighters hired after April 30, 1977	Unfunded Actuarial Accrued Liability:	\$402.4
Type:	Defined Benefit (DB)	Actuarial Funded Status:	95.1 %

Benefits			
Actual	Projected Benefit Payments ¹		
FY2022	FY2023	FY2024	FY2025
\$249.1	\$299.7	\$333.2	\$379.8

Formula	(52% X First Class Officer Salary) + (1% X each 6 months beyond 20 years); total capped at 76%	
Vesting	20 years	
Full Retirement	Age 52 with 20 years service	
Avg. Annual Retiree Benefit (as of 2021)	\$33,165	

Funding					
Contribution		Actual	Projected Contributions ¹		
Source	Rate	FY2022	FY2023	FY2024	FY2025
Member (Max 32 years)	6.0 %	\$58.9	\$60.0	\$60.4	\$60.9
Employer	18.9 %	\$177.1	\$180.1	\$188.8	\$196.6
Total		\$236.0	\$240.1	\$249.2	\$257.5



¹ Based on preliminary 6/30/2022 actuarial valuation. Projected amounts could change.

Judges Retirement System (JRS) Fund Overview

(dollars in millions)

Estimate as of June 30, 2022

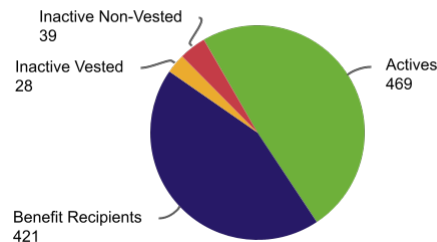
Membership:	Judges and Magistrates of the Supreme Court of Indiana, Court of Appeals, Indiana Tax Court, Circuit Court, or County Courts	Unfunded Actuarial Accrued Liability:	\$25.2
Type:	Defined Benefit (DB)	Actuarial Funded Status:	96.3 %

Benefits			
Actual	Projected Benefit Payments ¹		
FY2022	FY2023	FY2024	FY2025
\$31.0	\$36.5	\$38.7	\$40.9

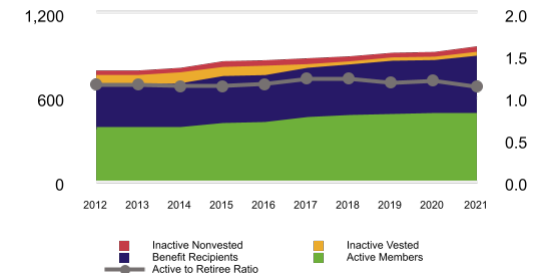
Formula	Final Salary X factor established in IC (24% to 60%) based on service
Vesting	8 years
Full Retirement	Age 65 with 8 years service or age 55 with Rule of 85
Avg. Annual Retiree Benefit (as of 2021)	\$71,316

Funding					
Contribution/Appropriation		Actual	Projected Contributions ¹		
Source	Rate	FY2022	FY2023	FY2024	FY2025
Member (max 22 years)	6.0 %	\$4.6	\$3.9	\$4.1	\$4.2
General Fund	N/A	\$10.4	\$10.9	\$13.9	\$14.5
Docket & Court Fees	N/A	\$7.2	\$7.2	\$7.2	\$7.2
Total		\$22.2	\$22.0	\$25.2	\$25.9

Data as of June 30, 2021



Data as of June 30, 2021



¹ Based on preliminary 6/30/2022 actuarial valuation. Projected amounts could change.

Excise, gaming and Conservation Officers' Retirement Fund (EG&C) Overview

(dollars in millions)

Estimate as of June 30, 2022

Membership:	State Excise Police, Gaming Agents, Gaming Control Officers, and Conservation Enforcement Officers	Unfunded Actuarial Accrued Liability:	\$10.4
Type:	Defined Benefit (DB)	Actuarial Funded Status:	94.5 %

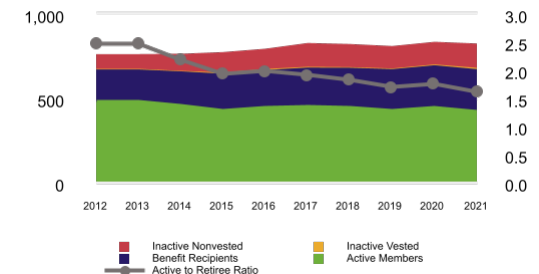
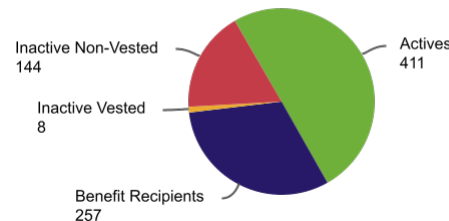
Benefits			
Actual	Projected Benefit Payments ¹		
FY2022	FY2023	FY2024	FY2025
\$7.9	\$8.3	\$8.6	\$10.4

Formula	(25% X Avg. High 5 Year Salary) = (1.67% X Years beyond 10); capped at 75%
Vesting	DB - 15 years
Full Retirement	Mandatory at age 65, age 50 with 25 service, or age 55 with rule 85
Avg. Annual Retiree Benefit (as of 2021)	\$28,529

Funding					
Contribution/Appropriation		Actual	Projected Contributions ¹		
Source	Rate	FY2022	FY2023	FY2024	FY2025
Member	4.0 %	\$1.4	\$1.3	\$1.3	\$1.3
General Fund	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Employer	20.75 %	\$6.7	\$6.8	\$6.7	\$6.7
Total		\$8.1	\$8.1	\$8.0	\$8.0

Data as of June 30, 2021

Data as of June 30, 2021



¹ Based on preliminary 6/30/2022 actuarial valuation. Projected amounts could change.

Prosecuting Attorneys' Retirement Fund (PARF) Fund Overview

(dollars in millions)

Estimate as of June 30, 2022

Membership:	Prosecutors or chief deputy prosecutors serving after 12/31/1989, Executive Directors or Assistant Executive Director or Assistant Executive Director of the Prosecutors Council, or state paid deputy prosecuting attorney hired after June 30,	Unfunded Actuarial Accrued Liability:	\$ 40.2
Type:	Defined Benefit (DB)	Actuarial Funded Status:	67.1 %

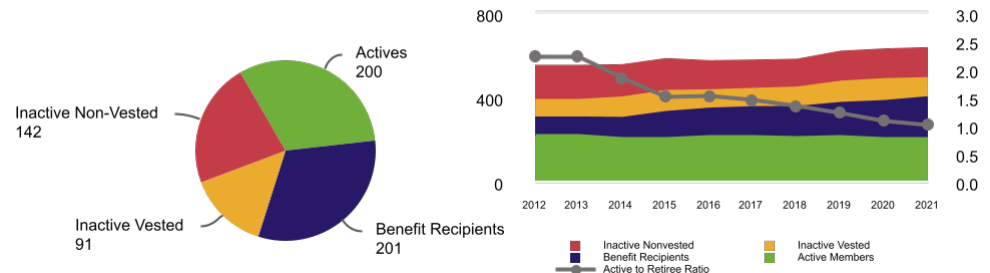
Benefits				
Actual	Projected Benefit Payments ¹			
FY2022	FY2023	FY2024	FY2025	
\$5.7	\$6.6	\$6.8	\$7.1	

Formula	Highest Salary X factor established by IC (24% to 60%) based on service	
Vesting	8 Years	
Full Retirement	Age 62 with 8 years service or age 55 with rule of 85	
Avg. Annual Retiree Benefit (as of 2021)	\$26,881	

Funding					
Contribution/Appropriation		Actual	Projected Contributions ¹		
Source	Rate	FY2022	FY2023	FY2024	FY2025
Member	6.0 %	\$1.5	\$1.4	\$1.5	\$1.6
General Fund		\$4.0	\$4.2	\$4.3	\$4.4
Total		\$5.5	\$5.5	\$5.8	\$6.0

Data as of June 30, 2021

Data as of June 30, 2021



¹ Based on preliminary 6/30/2022 actuarial valuation. Projected amounts could change.

Legislators' Defined Benefit Fund (LE DB) Fund Overview

(dollars in millions)

Estimate as of June 30, 2022

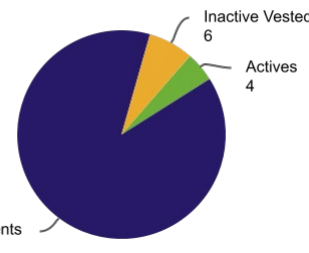
Membership:	Members of the Indiana General Assembly on April 30, 1989 that elected to participate	Unfunded Actuarial Accrued Liability:	\$ (0.4)
Type:	Defined Benefit (DB)	Actuarial Funded Status:	112.4 %

Benefits				
Actual	Projected Benefit Payments ¹			
FY2022	FY2023	FY2024	FY2025	
\$0.3	\$0.4	\$0.3	\$0.3	

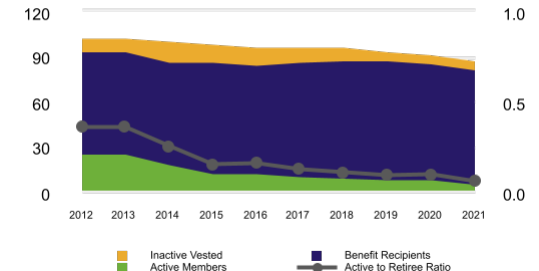
Formula	Lesser of \$480 X service before 1989 and average High 3 Year Salary		
Vesting	10 Years		
Full Retirement	Age 65 with 10 years of service, age 60 with 15 years service, or age 55 with Rule of 85		
Avg. Annual Retiree Benefit (as of 2021)	\$ 4,411		

Funding					
Contribution/Appropriation		Actual	Projected Contributions ¹		
Source	Rate	FY2022	FY2023	FY2024	FY2025
General Fund	N/A	\$0.2	\$0.0	\$0.0	\$0.0
Total		\$0.2	\$0.0	\$0.0	\$0.0

Data as of June 30, 2021



Data as of June 30, 2021



¹ Based on preliminary 6/30/2022 actuarial valuation. Projected amounts could change.

INPRS Defined Contribution Funds Overview

(dollars in millions)

Estimate as of June 30, 2022

Public Employees' Defined Contribution Account (PERF DC)

Membership:	Full-time employees of the state and participating political subdivisions			
Type:	Defined Contribution			
Formula:	Hybrid member 3%			
Funding:				
Contribution/Appropriation		Actual		
Source	Rate	FY2020	FY2021	FY2022
Member	3 %	\$ 174.0	\$ 178.4	\$ 185.7
Total		\$ 174.0	\$ 178.4	\$ 185.7

My Choice: Retirement Savings Plan for Public Employees (PERF MC DC)

Membership:	Full-time employees of the state and participating political subdivisions			
Type:	Defined Contribution			
Formula:	My Choice members: 3% + variable rate (3.2% for state in FY 22, up to 3.9% for PSD in CY 22)			
Funding:				
Contribution/Appropriation		Actual		
Source	Rate	FY2020	FY2021	FY2022
Member	see formula	\$ 9.0	\$ 10.9	\$ 12.0
Total		\$ 9.0	\$ 10.9	\$ 12.0

INPRS Defined Contribution Funds Overview

(dollars in millions)

Estimate as of June 30, 2022

Teachers' Defined Contribution Account (TRF DC)

Membership:	Full-time employees of the state and participating political subdivisions			
Type:	Defined Contribution			
Formula:	Hybrid Members 3% X salary to member			
Funding:				
Contribution/Appropriation		Actual		
Source	Rate	FY2020	FY2021	FY2022
Member	3 %	\$ 127.0	\$ 129.7	\$ 135.5
Total		\$ 127.0	\$ 129.7	\$ 135.5

My Choice: Retirement Savings Plan for Teachers (TRF MC DC)

Membership:	Full-time employees of the state and participating political subdivisions			
Type:	Defined Contribution			
Formula:	My Choice members 5.3% X salary to member			
Funding:				
Contribution/Appropriation		Actual		
Source	Rate	FY2020	FY2021	FY2022
Member	5.3 %	\$ 2.0	\$ 4.6	\$ 8.0
Total		\$ 0.0	\$ 4.6	\$ 8.0

INPRS Defined Contribution Funds Overview

(dollars in millions)

Estimate as of June 30, 2022

Legislators' Defined Contribution Fund (LE DC)

Membership:	Full-time employees of the state and participating political subdivisions			
Type:	Defined Contribution			
Formula:	State PERF contribution rate + DC contribution rate			
Funding:				
Contribution/Appropriation		Actual		
Source	Rate	FY2020	FY2021	FY2022
Member	14.2 %	\$ 1.8	\$ 2.0	\$ 2.0
Total		\$ 1.8	\$ 2.0	\$ 2.0

Retiree Medical Benefit Account (RMBA)

Membership:	Full-time employees of the state and participating political subdivisions			
Type:	Defined Contribution			
Formula:	Annual contribution amounts of \$500, \$800, \$1,100, or \$1,400 dependent on age			
Funding:				
Contribution/Appropriation		Actual		
Source	Rate	FY2020	FY2021	FY2022
Total		27.7	28.1	\$ 27.4