### State of Alaska Department of Revenue

#### STATE INVESTMENT REVIEW MEETING

#### May 10, 2022 – 10:00 a.m.

Click here to join the meeting or use the options provided below.						
Video conferencing device:		Call In (Audio Only):				
Link: 260748889@t.plcm.vc	ID: 118 298 124 1	Phone: 1-907-202-7104	Code: 244 376 033#			

#### I. Introduction

Lucinda Mahoney, Commissioner of Revenue Zachary Hanna, Chief Investment Officer

#### II. State Investments Zachary Hanna, Chief Investment Officer

- A. March 31, 2022 Performance Commissioner's Report
- **B.** Non-Routine Investments
- C. Asset Allocation Process & 2022 Capital Market Assumptions

#### III. IAC Comments Investment Advisory Council Members

IV. Future Agenda Items & Calendar Review Zachary Hanna, Chief Investment Officer Alysia Jones, ARMB Liaison

#### V. Other Matters for Discussion

VI. Adjournment

### **State Investment Review Meeting**



## **State Investments and**

### Fiscal Year 2023

## **Asset Allocation Discussion**

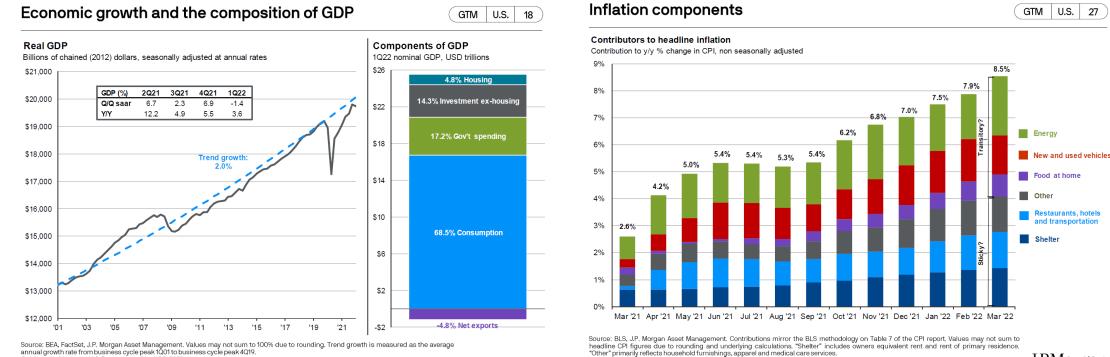
May 2022

Zachary Hanna, CFA Chief Investment Officer State of Alaska, Department of Revenue

# **Economic and Market Update**

# The Economy, Geopolitics, and Inflation

- The Economic recovery was proceeding well despite growing concerns about persistent inflation.
- Since February, the Russia/Ukraine crisis has dominated headlines and capital markets. The direct impact to equity markets was muted, but the impact on energy inflation and European growth has been more pronounced.
- U.S. Real GDP is still expected to be on trend at 2% despite negative GDP growth in the 1<sup>st</sup> quarter.
- Unemployment is almost back to the pre-pandemic low of 3.5%, but job openings are ~50% higher leading to wage pressure.
- CPI reached 8.5% annualized in March, well in excess of the Fed's inflation target driven by energy/commodity prices, wage pressure, and remaining supply chain issues.



Guide to the Markets - U.S. Data are as of April 30, 2022.

J.P.Morgan ASSET MANAGEMENT Guide to the Markets - U.S. Data are as of April 30, 2022

J.P.Morgan

ASSET MANAGEMENT

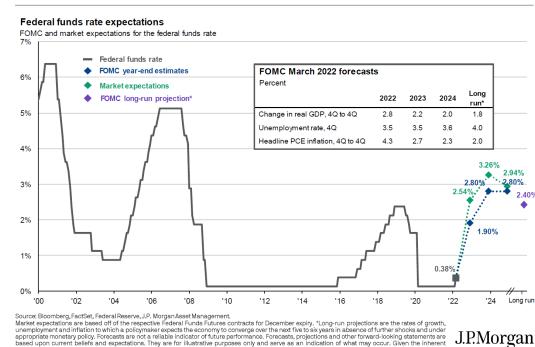
## **Interest Rates and the Federal Reserve**

- Energy price increases along with other pressures have catalyzed the Federal Reserve into action to control inflation.
- The Fed has started raising interest rates and is expected to increase them 7+ more times this year alone.
- The Fed also plans to decrease the size of their balance sheet, which doubled through the pandemic.
- These actions have a direct impact on fixed income markets and will also affect other capital markets.

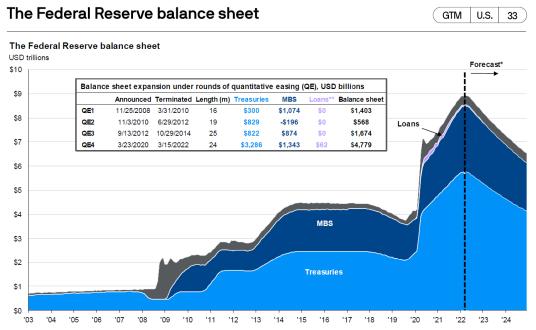
#### The Fed and interest rates

GTM U.S. 32

ASSET MANAGEMENT



unemployment and inflation to which a policymaker expects the economy to converge over the next five to six years in absence of further shocks and under appropriate monetary policy. Forecasts are not a reliable indicator of future performance. Forecasts, projections and other forward-looking statements are based upon current beliefs and expectations. They are for illustrative purposes only and serve as an indication of what may occur. Given the inherent uncertainties and risks associated with forecasts, projections or other forward-looking statements, actual events, results or performance may diffe materially from those reflected or contemplated. Guide to the Markets – U.S. Data are as of April 30, 2022



Source: FactSet, Federal Reserve, J.P. Morgan Investment Bank, J.P. Morgan Asset Management

At its peak, the balance sheet contained \$5.8m in Treasures and \$2.7m in MBS. "The forecast assumes the Federal Reserve begins balance sheet runoff in mid-May and gradually increases the monthly cap on maturing Treasury and MBS securities per meeting until a max cap of \$100bn/month. The forecast does not include the active selling of securities from the committee. \*\*Loans include liquidity and credit extended through corporate credit facilities established in March 2020. Other include selling of securities from the committee. "Lears include inducting and creat extended uncurrent origin objective seasonal const, reparchase agreements, foreign currency reserves and maiden lane securities. Forecasts are not a reliable indicator of future JPPMorgan performance. Forecasts, projections and other forward-looking statements are based upon current beliefs and expectations. They are for illustrative purposes only and JPPMorgan events, results or performance may differ materially from those reflected or contemplated. ASSET MANAGEMENT Guide to the Markets - U.S. Data are as of April 30, 2022.

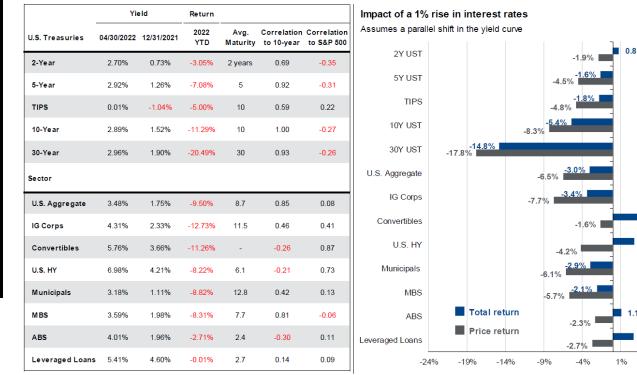
# **Fixed Income**

- Yields have increased dramatically in reaction of the Fed's rate increase plans.
- Valuations remain relatively tight for fixed income sectors as measured by historical spread levels.
- Fixed income investments remain exposed to further rate increases but are cushioned by higher starting yields.



### Fixed income market dynamics

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Source: Bloomberg, FactSet, Standard & Poor's, U.S. Treasury, J.P. Morgan Asset Management. Sectors shown above are provided by Bloomberg unless otherwise noted and are represented by – U.S. Aggregate; MBS: U.S. Aggregate Securitized - MBS; ABS: J.P. Morgan ABS Index; Corporates: U.S. Corporates; Municipals: Muni Bond; High Yield: Corporate High Yield; Leveraged Loans: J.P. Morgan Leveraged Loan Index; TIPS: Treasury Inflation-Protected Securities; Convertibles: U.S. Convertibles: U.S. Convertibles: U.S. Corporates; Municipals: Muni Bond; High Yield: Corporate High Yield; Leveraged Loans: J.P. Morgan Leveraged Loan Index; TIPS: Treasury Inflation-Protected Securities; Convertibles: U.S. Convertibles: Ornposite. Convertibles yield is as of most recent month end and is based on U.S. portion of Bloomberg Global Convertibles Index; Yield and return information based on bellwethers for Treasury securities. Sector yields reflect yield-to-worst. Convertibles yield is based on U.S. portion of Bloomberg Global Convertibles. Correlations are based on 15-years of monthly returns for all sectors. Past performance is not indicative of future results. *Guidet ot the Markets – U.S.* Data are as of April 30, 2022.



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# **Equity Markets**

5%

0%

-5%

-20%

-30%

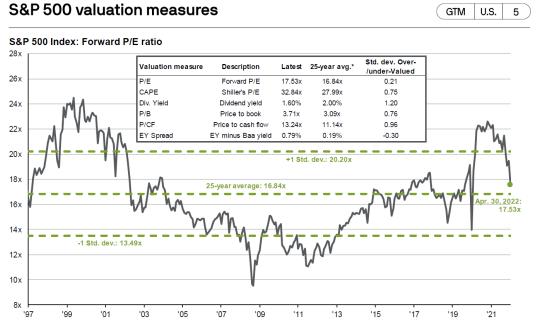
-35%

- With the recent stock market correction, U.S. equities are back to more normal valuations.
- U.S. corporate fundamentals remain robust, supported by strong profit margins and healthy balance sheets.

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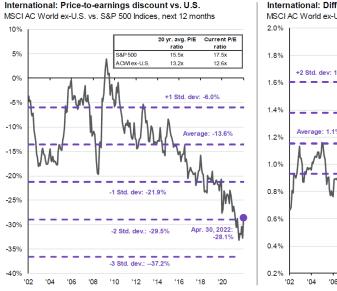
International equity valuations are close to all time lows relative to the U.S. with high dividend yields.



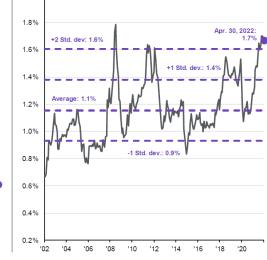
Source: FactSet, FRB, Refinitiv Datastream, Robert Shiller, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management. Price-to-earling is price divided by consensus analyst estimates of earlings pershare for the next 12 months as provided by IBES since April 1997 and by FactSet since January 2022, Current next 12-months consensus earnings estimates are \$236. Average P/E and standard deviations are calculated using 26 years of history. Shiller's P/E uses trailing 10-years of inflation-adjusted earnings as reported by companies. Dividend yield is calculated as the next 12 months consensus dividend divided by most recent price. Price-to-book ratio is the price divided by book value per share. Price-to-cash flow is price divided by NTM cash flow. EY minus Baa yield is the forward earnings yield (consensus analyst estimates of EPS over the next 12 months divided by price) minus the Moody's Baa seasoned corporate bond yield. Std. dev. over-/under-valued is calculated using the average and standard deviation over 25 years for each measure.\*P/CF is a 20-year average due to cash flow availability. Guide to the Markets - U.S. Data are as of April 30, 2022.

### International valuations and dividend yields

GTM U.S. 47



#### International: Difference in dividend yields vs. U.S. MSCI AC World ex-U.S. minus S&P 500 Indices, next 12 months



Source: FactSet, MSCI, Standard & Poor's, J.P. Morgan Asset Management. Guide to the Markets - U.S. Data are as of April 30, 2022

> J.P.Morgan ASSET MANAGEMENT

# **Capital Market Update**

2017	2018	2019	2020	2021	Last 5 Yrs.	Q3 2021	Q4 2021	Q1 2022	FYTD 2021
International Equity	Cash Equivalents	Broad U.S. Equity	Broad U.S. Equity	REITs	Broad U.S. Equity	TIPS	REITs	Cash Equivalents	REITs
27.2%	1.9%	31.0%	20.9%	41.3%	15.4%	1.8%	16.2%	0.0%	10.3%
Broad U.S. Equity	Core U.S. Fixed Income	REITs	TIPS	Broad U.S. Equity	REITs	High Yield	Broad U.S. Equity	TIPS	Broad U.S. Equity
	income								
21.1%	0.0%	28.7%	11.0%	25.7%	10.7%	0.9%	9.3%	(3.0%)	3.4%
REITs	TIPS	International Equity	International Equity	International Equity	International Equity	REITs	TIPS	High Yield	TIPS
8.7%	(1.3%)	21.5%	10.7%	7.8%	6.8%	0.2%	2.4%	(4.8%)	1.0%
High Yield	High Yield	High Yield	Core U.S. Fixed	TIPS	High Yield	Core U.S. Fixed	International Equity	REITs	Cash Equivalents
			Income			Income			
7.5%	(2.1%)	14.3%	7.5%	6.0%	4.7%	0.1%	1.8%	(5.3%)	0.1%
Core U.S. Fixed Income	REITs	Core U.S. Fixed Income	High Yield	High Yield	TIPS	Cash Equivalents	High Yield	Broad U.S. Equity	High Yield
meome		income							
3.5%	(4.0%)	8.7%	7.1%	5.3%	4.4%	0.0%	0.7%	(5.3%)	(3.3%)
TIPS	Broad U.S. Equity	TIPS	Cash Equivalents	Cash Equivalents	Core U.S. Fixed	Broad U.S. Equity	Core U.S. Fixed	International Equity	Core U.S. Fixed
					Income		Income		Income
3.0%	(5.2%)	8.4%	0.7%	0.0%	2.1%	(0.1%)	0.0%	(5.4%)	(5.9%)
Cash Equivalents	International Equity	Cash Equivalents	REITs	Core U.S. Fixed	Cash Equivalents	International Equity	Cash Equivalents	Core U.S. Fixed	International Equity
				Income				Income	
0.9%	(14.2%)	2.3%	(5.1%)	(1.5%)	1.1%	(3.0%)	0.0%	(5.9%)	(6.6%)

# **Commissioner's Report**

**March 2022** 

### COMMISSIONER'S REPORT

As of March 31, 2022

### Market Value

Plan Name	Cash Equivalents	Domestic Equity	Fixed Income	Int'l Equity	REITs	Market Value
2008 Transportation Project Government Bonds (AY2Q)	\$760,401					\$760,401
2010 Education Tax Exempt Bonds (AY3V)	\$2,641					\$2,641
2013B Tax Exempt Education (AY3Z)	\$191,496					\$191,496
2016A - 2012 Transporation Bond Act (AY3Y)	\$1,409,242					\$1,409,242
2016B - 2012 Transportation Bond Act (AY3Q)	\$71,938,777					\$71,938,777
Alaska Higher Education Investment (AY3L)	\$5,706,165	\$152,237,661	\$116,319,561	\$98,952,413	\$19,862,225	\$393,078,025
Alaska Mental Health Trust Reserve (AY2L)	\$611,102	\$19,520,718	\$25,744,112	\$13,795,563		\$59,671,495
ASLC Investment Fund (AY3S)	\$25,793,207	\$8,706,987	\$46,701,979	\$5,297,223	\$1,772,094	\$88,271,490
Constitutional Budget Reserve Fund (AY19)	\$1,088,035,230					\$1,088,035,230
Education Endowment Fund (AY3G)	\$11,825	\$313,198	\$239,281	\$203,569	\$40,887	\$808,760
EVOS Habitat Investment (AY2H)	\$2,152,854	\$12,677,596	\$59,604,342	\$8,569,864	\$2,580,277	\$85,584,933
EVOS Research Investment (AY02)	\$1,257,913	\$19,970,007	\$30,414,986	\$12,824,409	\$2,709,696	\$67,177,011
GeFONSI I (AY01)	\$1,394,951,475		\$232,252,851			\$1,627,204,325
GeFONSI II (AY3F)	\$802,455,449	\$46,075,558	\$297,480,960	\$23,359,870		\$1,169,371,837
Illinois Creek Mine Reclamation (AY9J)	\$21,121	\$562,126	\$429,416	\$365,307	\$73,348	\$1,451,319
International Airports 2006 Non-AMT (AY9X)	\$1,216,331					\$1,216,331
International Airports 2009 Variable (AY9Y)	\$83,563					\$83,563
International Airports 2010-B (AY3B)	\$78,424					\$78,424
International Airports Repair & Replacement Fund (AY05)	\$499,972					\$499,972
International Airports Revenue Fund (AY04)	\$140,601,122		\$24,164,327			\$164,765,449
International Airports Series 2002 Reserve Account (AY2E)	\$16,399,825					\$16,399,825
International Airports Series 2003 Reserve (AY2U)	\$10,511,093					\$10,511,093
Investment Loss Trust Fund (AY28)	\$3,414,233					\$3,414,233
PCE Endowment Fund (AY13)	\$19,746,555	\$348,498,071	\$465,149,762	\$220,855,961	\$44,331,291	\$1,098,581,641
Permanent Fund Dividend Holding Account (AY2G)	\$41,553,282					\$41,553,282
Public School Trust Fund (AY08)	\$11,720,923	\$312,701,675	\$238,924,564	\$203,251,783	\$40,797,503	\$807,396,448
RHIF LTC Insurance (AY11)	\$13,177,189	\$247,152,242	\$305,005,995	\$159,477,181	\$30,486,716	\$755,299,323
RHIF Major Medical (AY03)	\$19,002,511					\$19,002,511

### **Actual Allocation**

Plan Name	Cash Equivalents	<b>Domestic Equity</b>	Fixed Income	Int'l Equity	REITs
2008 Transportation Project Government Bonds (AY2Q)	100.00%				
2010 Education Tax Exempt Bonds (AY3V)	100.00%				
2013B Tax Exempt Education (AY3Z)	100.00%				
2016A - 2012 Transporation Bond Act (AY3Y)	100.00%				
2016B - 2012 Transportation Bond Act (AY3Q)	100.00%				
Alaska Higher Education Investment (AY3L)	1.45%	38.73%	29.59%	25.17%	5.05%
Alaska Mental Health Trust Reserve (AY2L)	1.02%	32.71%	43.14%	23.12%	
ASLC Investment Fund (AY3S)	29.22%	9.86%	52.91%	6.00%	2.01%
Constitutional Budget Reserve Fund (AY19)	100.00%				
Education Endowment Fund (AY3G)	1.46%	38.73%	29.59%	25.17%	5.06%
EVOS Habitat Investment (AY2H)	2.52%	14.81%	69.64%	10.01%	3.01%
EVOS Research Investment (AY02)	1.87%	29.73%	45.28%	19.09%	4.03%
GeFONSI I (AY01)	85.73%		14.27%		
GeFONSI II (AY3F)	68.62%	3.94%	25.44%	2.00%	
Illinois Creek Mine Reclamation (AY9J)	1.46%	38.73%	29.59%	25.17%	5.05%
International Airports 2006 Non-AMT (AY9X)	100.00%				
International Airports 2009 Variable (AY9Y)	100.00%				
International Airports 2010-B (AY3B)	100.00%				
International Airports Repair & Replacement Fund (AY05)	100.00%				
International Airports Revenue Fund (AY04)	85.33%		14.67%		
International Airports Series 2002 Reserve Account (AY2E)	100.00%				
International Airports Series 2003 Reserve (AY2U)	100.00%				
Investment Loss Trust Fund (AY28)	100.00%				
PCE Endowment Fund (AY13)	1.80%	31.72%	42.34%	20.10%	4.04%
Permanent Fund Dividend Holding Account (AY2G)	100.00%				
Public School Trust Fund (AY08)	1.45%	38.73%	29.59%	25.17%	5.05%
RHIF LTC Insurance (AY11)	1.74%	32.72%	40.38%	21.11%	4.04%
RHIF Major Medical (AY03)	100.00%				

### Target Allocation

Plan Name	Cash Equivalents	<b>Domestic Equity</b>	Fixed Income	Int'l Equity	REITs
2008 Transportation Project Government Bonds (AY2Q)	100.00%				
2010 Education Tax Exempt Bonds (AY3V)	100.00%				
2013B Tax Exempt Education (AY3Z)	100.00%				
2016A - 2012 Transporation Bond Act (AY3Y)	100.00%				
2016B - 2012 Transportation Bond Act (AY3Q)	100.00%				
Alaska Higher Education Investment (AY3L)	1.00%	39.00%	30.00%	25.00%	5.00%
Alaska Mental Health Trust Reserve (AY2L)	0.00%	33.00%	44.00%	23.00%	
ASLC Investment Fund (AY3S)	46.00%	7.00%	41.00%	5.00%	1.00%
Constitutional Budget Reserve Fund (AY19)	100.00%				
Education Endowment Fund (AY3G)	1.00%	39.00%	30.00%	25.00%	5.00%
EVOS Habitat Investment (AY2H)	1.00%	15.00%	71.00%	10.00%	3.00%
EVOS Research Investment (AY02)	1.00%	30.00%	46.00%	19.00%	4.00%
GeFONSI I (AY01)	85.00%		15.00%		
GeFONSI II (AY3F)	68.00%	4.00%	26.00%	2.00%	
Illinois Creek Mine Reclamation (AY9J)	1.00%	39.00%	30.00%	25.00%	5.00%
International Airports 2006 Non-AMT (AY9X)	100.00%				
International Airports 2009 Variable (AY9Y)	100.00%				
International Airports 2010-B (AY3B)	100.00%				
International Airports Repair & Replacement Fund (AY05)	100.00%				
International Airports Revenue Fund (AY04)	85.00%		15.00%		
International Airports Series 2002 Reserve Account (AY2E)	100.00%				
International Airports Series 2003 Reserve (AY2U)	100.00%				
Investment Loss Trust Fund (AY28)	100.00%				
PCE Endowment Fund (AY13)	1.00%	32.00%	43.00%	20.00%	4.00%
Permanent Fund Dividend Holding Account (AY2G)	100.00%				
Public School Trust Fund (AY08)	1.00%	39.00%	30.00%	25.00%	5.00%
RHIF LTC Insurance (AY11)	1.00%	33.00%	41.00%	21.00%	4.00%
RHIF Major Medical (AY03)	100.00%				

#### **Relative Allocation**

Plan Name	Cash Equivalents	<b>Domestic Equity</b>	Fixed Income	Int'l Equity	REITs
2008 Transportation Project Government Bonds (AY2Q)	0.00%				
2010 Education Tax Exempt Bonds (AY3V)	0.00%				
2013B Tax Exempt Education (AY3Z)	0.00%				
2016A - 2012 Transporation Bond Act (AY3Y)	0.00%				
2016B - 2012 Transportation Bond Act (AY3Q)	0.00%				
Alaska Higher Education Investment (AY3L)	0.45%	-0.27%	-0.41%	0.17% 🔵	0.05%
Alaska Mental Health Trust Reserve (AY2L)	1.02% 🚫	-0.29%	-0.86% 🚫	0.12%	
ASLC Investment Fund (AY3S)	-16.78% 🚫	2.86% 🚫	11.91% 🚫	1.00% 🚫	1.01% 🚫
Constitutional Budget Reserve Fund (AY19)	0.00%				
Education Endowment Fund (AY3G)	0.46%	-0.27%	-0.41%	0.17%	0.06%
EVOS Habitat Investment (AY2H)	1.52% 🚫	-0.19%	-1.36% 🚫	0.01%	0.01%
EVOS Research Investment (AY02)	0.87% 🚫	-0.27%	-0.72%	0.09%	0.03%
GeFONSI I (AY01)	0.73% 🔶		-0.73%		
GeFONSI II (AY3F)	0.62%	-0.06%	-0.56%	0.00%	
Illinois Creek Mine Reclamation (AY9J)	0.46%	-0.27%	-0.41%	0.17%	0.05%
International Airports 2006 Non-AMT (AY9X)	0.00%				
International Airports 2009 Variable (AY9Y)	0.00%				
International Airports 2010-B (AY3B)	0.00%				
International Airports Repair & Replacement Fund (AY05)	0.00%				
International Airports Revenue Fund (AY04)	0.33%		-0.33%		
International Airports Series 2002 Reserve Account (AY2E)	0.00%				
International Airports Series 2003 Reserve (AY2U)	0.00%				
Investment Loss Trust Fund (AY28)	0.00%				
PCE Endowment Fund (AY13)	0.80% 🚫	-0.28%	-0.66% 🔶	0.10% 🔵	0.04%
Permanent Fund Dividend Holding Account (AY2G)	0.00%		▼		
Public School Trust Fund (AY08)	0.45%	-0.27%	-0.41%	0.17%	0.05%
RHIF LTC Insurance (AY11)	0.74%	-0.28%	-0.62%	0.11%	0.04%
RHIF Major Medical (AY03)	0.00%		· · · · · · · · · · · · · · · · · · ·		

### DOR Commissioner's Report: Net Pool Performance for Month Ending 3/31/2022

Pool Performance (Net of Fee)	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	6 Year	10 Year
Broad Market Fixed Income	-2.60%	-5.68%	-5.82%	-4.01%	1.96%	2.32%	2.03%	2.39%
Domestic Equity*	3.26%	-5.19%	3.59%	12.12%	18.22%	15.36%		
Internally Managed REITs	7.06%	-5.19%						
International Equity*	0.31%	-5.38%	-6.50%	-1.35%	7.60%	6.83%		
Short-term Fixed Income Pool	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
Tactical Bond Pool	-1.58%							
Benchmark Performance	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	6 Year	10 Year
Broad Market Fixed Income	-2.78%	-5.93%	-5.87%	-4.15%	1.69%	2.14%	1.86%	2.24%
Domestic Equity*	3.24%	-5.28%	3.40%	11.92%	18.24%	15.40%		
Internally Managed REITs	7.04%	-5.29%						
International Equity*	0.16%	-5.44%	-6.60%	-1.48%	7.51%	6.76%		
Short-term Fixed Income Pool	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
Tactical Bond Pool	-2.78%							
Relative Performance (Net of Fee)	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	6 Year	10 Year
Broad Market Fixed Income	0.18%	0.26%	0.06%	0.14%	0.27%	0.17%	0.17%	0.15% 🔵
Domestic Equity*	0.02%	0.09%	0.19%	0.20%	-0.02%	-0.04%		
Internally Managed REITs	0.02%	0.10%						
International Equity*	0.15%	0.06%	0.10%	0.14%	0.09%	0.06%		
Short-term Fixed Income Pool	-0.05%	-0.07%	-0.07%	-0.04%	0.06%	0.12%	0.18%	0.19%
Tactical Bond Pool	1.20%	<b>▼</b>						

### DOR Commissioner's Report: Net Plan Performance for Month Ending 3/31/2022

<u> Plan Performance (Net of Fee)</u>	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	6 Year	10 Year
2008 Transportation Project Government Bonds (AY2Q)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
2010 Education Tax Exempt Bonds (AY3V)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
2013B Tax Exempt Education (AY3Z)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	
2016A - 2012 Transporation Bond Act (AY3Y)	-0.02%	-0.03%	-0.01%	0.02%	0.85%	1.24%	1.17%	
2016B - 2012 Transportation Bond Act (AY3Q)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%		
Alaska Higher Education Investment (AY3L)	0.90%	-5.29%	-1.52%	3.96%	10.77%	9.35%	9.53%	
Alaska Mental Health Trust Reserve (AY2L)	-0.05%	-5.43%	-2.89%	1.79%	8.94%	8.15%	8.38%	7.98%
ASLC Investment Fund (AY3S)	-0.79%	-3.04%						
Constitutional Budget Reserve Fund (AY19)	-0.02%	-0.03%	-0.01%	0.02%	1.62%	1.97%	1.94%	1.60%
Education Endowment Fund (AY3G)	0.89%	-5.30%	-1.50%	3.98%				
EVOS Habitat Investment (AY2H)	-1.04%	-5.68%	-3.48%	0.85%	8.01%	7.79%	8.31%	8.35%
EVOS Research Investment (AY02)	0.16%	-5.05%	-2.63%	1.94%	8.72%	8.21%	8.67%	8.55%
GeFONSI I (AY01)	-0.39%	-0.90%	-0.92%	-0.48%	0.75%	1.13%	1.04%	0.84%
GeFONSI II (AY3F)	-0.52%	-1.78%	-1.49%	-0.64%	2.06%			
Illinois Creek Mine Reclamation (AY9J)	0.89%	-5.30%	-1.50%	3.98%	10.74%	9.32%	9.50%	6.40%
International Airports 2006 Non-AMT (AY9X)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
International Airports 2009 Variable (AY9Y)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
International Airports 2010-B (AY3B)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
International Airports Repair & Replacement Fund (AY05)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
International Airports Revenue Fund (AY04)	-0.37%	-0.85%	-0.86%	-0.41%	1.36%	1.85%	1.82%	1.44%
International Airports Series 2002 Reserve Account (AY2E)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
International Airports Series 2003 Reserve (AY2U)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
Investment Loss Trust Fund (AY28)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%
PCE Endowment Fund (AY13)	0.25%	-5.34%	-2.31%	1.55%	6.61%	6.85%	7.44%	7.96%
Permanent Fund Dividend Holding Account (AY2G)	-0.02%	-0.03%	-0.01%	0.02%	0.86%	1.39%	1.28%	0.88%
Public School Trust Fund (AY08)	0.89%	-5.30%	-1.50%	3.98%	10.77%	9.03%	8.99%	7.69%
RHIF LTC Insurance (AY11)	0.33%	-5.33%	-2.23%	1.92%	8.28%	7.17%	7.01%	6.40%
RHIF Major Medical (AY03)	-0.02%	-0.03%	-0.01%	0.02%	0.87%	1.25%	1.18%	0.83%

### DOR Commissioner's Report: Net Plan Performance for Month Ending 3/31/2022

Benchmark Performance	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	6 Year	10 Year
2008 Transportation Project Government Bonds (AY2Q)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
2010 Education Tax Exempt Bonds (AY3V)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
2013B Tax Exempt Education (AY3Z)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	
2016A - 2012 Transporation Bond Act (AY3Y)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	
2016B - 2012 Transportation Bond Act (AY3Q)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%		
Alaska Higher Education Investment (AY3L)	0.75%	-5.46%	-1.60%	3.84%	10.73%	9.35%	9.52%	
Alaska Mental Health Trust Reserve (AY2L)	-0.18%	-5.60%	-3.00%	1.64%	8.69%	7.98%	8.28%	7.64%
ASLC Investment Fund (AY3S)	-0.83%	-3.11%						
Constitutional Budget Reserve Fund (AY19)	0.03%	0.04%	0.06%	0.06%	1.50%	1.87%	1.77%	1.44%
Education Endowment Fund (AY3G)	0.75%	-5.46%	-1.60%	3.84%				
EVOS Habitat Investment (AY2H)	-1.28%	-6.20%	-3.92%	0.34%	7.79%	7.70%	8.29%	8.02%
EVOS Research Investment (AY02)	-0.02%	-5.42%	-2.93%	1.58%	8.54%	8.15%	8.66%	8.25%
GeFONSI I (AY01)	-0.38%	-0.86%	-0.83%	-0.41%	0.69%	1.03%	0.91%	0.70%
GeFONSI II (AY3F)	-0.56%	-1.84%	-1.47%	-0.66%	1.99%			
Illinois Creek Mine Reclamation (AY9J)	0.75%	-5.46%	-1.60%	3.84%	10.73%	9.35%	9.52%	6.29%
International Airports 2006 Non-AMT (AY9X)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
International Airports 2009 Variable (AY9Y)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
International Airports 2010-B (AY3B)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
International Airports Repair & Replacement Fund (AY05)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
International Airports Revenue Fund (AY04)	-0.38%	-0.86%	-0.83%	-0.41%	1.28%	1.73%	1.65%	1.25%
International Airports Series 2002 Reserve Account (AY2E)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
International Airports Series 2003 Reserve (AY2U)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
Investment Loss Trust Fund (AY28)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
PCE Endowment Fund (AY13)	0.08%	-5.54%	-2.36%	1.43%	6.60%	6.88%	7.46%	7.76%
Permanent Fund Dividend Holding Account (AY2G)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%
Public School Trust Fund (AY08)	0.75%	-5.46%	-1.60%	3.84%	10.73%	9.05%	8.99%	7.63%
RHIF LTC Insurance (AY11)	0.17%	-5.53%	-2.28%	1.81%	8.17%	7.14%	6.93%	6.20%
RHIF Major Medical (AY03)	0.03%	0.04%	0.06%	0.06%	0.81%	1.13%	1.00%	0.63%

#### DOR Commissioner's Report: Net Plan Performance for Month Ending 3/31/2022

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Relative Performance (Net of Fee)	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	6 Year	10 Year
2008 Transportation Project Government Bonds (AY2Q)	-0.05% 🔶	-0.07% 🔶	-0.07% 🔶	-0.04%	0.06%	0.12% 🛑	0.18% 🛑	0.19%
2010 Education Tax Exempt Bonds (AY3V)	-0.05% 🔶	-0.07%	-0.07%	-0.04%	0.07%	0.12%	0.18%	0.19%
2013B Tax Exempt Education (AY3Z)	-0.05% 🔶	-0.07%	-0.07%	-0.04%	0.06%	0.12%	0.18%	
2016A - 2012 Transporation Bond Act (AY3Y)	-0.05% 🔶	-0.07%	-0.07%	-0.04%	0.04%	0.11%	0.17%	
2016B - 2012 Transportation Bond Act (AY3Q)	-0.05% 🔶	-0.07%	-0.07%	-0.04%	0.06%	0.12%		
Alaska Higher Education Investment (AY3L)	0.15%	0.17%	0.08%	0.12%	0.03%	0.00%	0.01%	
Alaska Mental Health Trust Reserve (AY2L)	0.13%	0.17%	0.11%	0.15%	0.25%	0.18%	0.10%	0.34%
ASLC Investment Fund (AY3S)	0.04%	0.07%						
Constitutional Budget Reserve Fund (AY19)	-0.05% 🔶	-0.07%	-0.07%	-0.04%	0.11%	0.10%	0.17%	0.16%
Education Endowment Fund (AY3G)	0.14%	0.17%	0.09%	0.14%				
EVOS Habitat Investment (AY2H)	0.23%	0.51%	0.44%	0.51%	0.22%	0.09%	0.02%	0.33%
EVOS Research Investment (AY02)	0.17%	0.37%	0.30%	0.36%	0.19%	0.06%	0.01%	0.30%
GeFONSI I (AY01)	-0.01%	-0.04%	-0.09%	-0.07%	0.06%	0.10%	0.14%	0.15%
GeFONSI II (AY3F)	0.04%	0.05%	-0.02%	0.02%	0.07%			
Illinois Creek Mine Reclamation (AY9J)	0.14%	0.17%	0.10%	0.14%	0.01%	-0.02%	-0.02%	0.11%
International Airports 2006 Non-AMT (AY9X)	-0.05%	-0.07%	-0.07%	-0.04%	0.06%	0.12%	0.18%	0.19%
International Airports 2009 Variable (AY9Y)	-0.05%	-0.07%	-0.07%	-0.04%	0.06%	0.12%	0.18%	0.19%
International Airports 2010-B (AY3B)	-0.05%	-0.07%	-0.07%	-0.04%	0.06%	0.12%	0.18%	0.19%
International Airports Repair & Replacement Fund (AY05)	-0.05%	-0.07%	-0.07%	-0.04%	0.06%	0.12%	0.18%	0.19%
International Airports Revenue Fund (AY04)	0.01%	0.01%	-0.03%	0.00%	0.09%	0.12%	0.16%	0.19%
International Airports Series 2002 Reserve Account (AY2E)	-0.05% 🔶	-0.07%	-0.07%	-0.04%	0.06%	0.12%	0.18%	0.19%
International Airports Series 2003 Reserve (AY2U)	-0.05% 🔶	-0.07% 🔶	-0.07% 🔶	-0.04%	0.06%	0.12%	0.18%	0.19%
Investment Loss Trust Fund (AY28)	-0.05% 🔶	-0.07%	-0.07%	-0.04%	0.06%	0.12%	0.18%	0.19%
PCE Endowment Fund (AY13)	0.17%	0.20%	0.05%	0.12%	0.01%	-0.03%	-0.02%	0.20%
Permanent Fund Dividend Holding Account (AY2G)	-0.05% 🔶	-0.07%	-0.07%	-0.05%	0.05%	0.26%	0.28%	0.24%
Public School Trust Fund (AY08)	0.14%	0.17%	0.10%	0.14%	0.03%	-0.02%	0.01%	0.07%
RHIF LTC Insurance (AY11)	0.16%	0.20%	0.05%	0.11%	0.11%	0.03%	0.08%	0.20%
RHIF Major Medical (AY03)	-0.05% 🔶	-0.07%	-0.07% 🔶	-0.04%	0.06%	0.12%	0.18%	0.19%

### DOR Commissioner's Report: External Management Fees as of Month Ending 3/31/2022

### Plan Fees for the Last Year

Plan	Fee as a %
2008 Transportation Project Government Bonds (AY2Q)	0.0000%
2010 Education Tax Exempt Bonds (AY3V)	0.0000%
2013B Tax Exempt Education (AY3Z)	0.0000%
2016A - 2012 Transporation Bond Act (AY3Y)	0.0000%
2016B - 2012 Transportation Bond Act (AY3Q)	0.0000%
Alaska Higher Education Investment (AY3L)	0.0064%
Alaska Mental Health Trust Reserve (AY2L)	0.0050%
Constitutional Budget Reserve Fund (AY19)	0.0000%
Education Endowment Fund (AY3G)	0.0064%
EVOS Habitat Investment (AY2H)	0.0055%
EVOS Research Investment (AY02)	0.0057%
GeFONSI I (AY01)	0.0003%
GeFONSI II (AY3F)	0.0010%
Illinois Creek Mine Reclamation (AY9J)	0.0064%
International Airports 2006 Non-AMT (AY9X)	0.0000%
International Airports 2009 Variable (AY9Y)	0.0000%
International Airports 2010-B (AY3B)	0.0000%
International Airports Repair & Replacement Fund (AY05)	0.0000%
International Airports Revenue Fund (AY04)	0.0003%
International Airports Series 2002 Reserve Account (AY2E)	0.0000%
International Airports Series 2003 Reserve (AY2U)	0.0000%
Investment Loss Trust Fund (AY28)	0.0000%
PCE Endowment Fund (AY13)	0.0052%
Permanent Fund Dividend Holding Account (AY2G)	0.0000%
Public School Trust Fund (AY08)	0.0064%
RHIF LTC Insurance (AY11)	0.0054%
RHIF Major Medical (AY03)	0.0000%

### Commissioner's Report: Top GeFONSI Accounts for Month Ending: 3/31/2022

	Sum of 5 Largest GeFONSI I and II Funds	\$1,842,678,020.60
	School Construction Fund	\$66,764,957.17
	Disaster Relief Fund	\$66,832,005.02
	Highway Equipment Working Capital Fund For Operating Appropriations	\$100,881,716.74
	Public Education Fund	\$109,006,160.38
GeFONSI II	Statutory Budget Reserve Fund	\$161,412,802.41
	Public Advocacy Trust	\$42,153,132.20
	Oil & Hazardous Substance Release Response Account	\$43,363,558.41
	Alaska Drinking Water Fund	\$77,782,458.67
	Alaska Clean Water Fund	\$126,065,877.53
GeFONSI I	General Fund	\$1,048,415,352.07
Program	Account Name	End Balance

## **Non-Routine Investments**

# **Non-Routine Investments**

- The Department of Revenue is presented periodically with non-routine investment opportunities that fall outside the scope of its existing investment opportunity set.
- The state does not currently have any non-routine investments, and none are presently contemplated by investment staff.
- Non-routine investment process summary:
  - Document the investment opportunity and determine if it merits further diligence and/or if it is more suitable for other funding sources.
  - Seek legal advice on DOR eligibility.
  - Seek guidance from external auditors.
  - Use an impartial external expert to evaluate the opportunity and to provide an opinion on the investment.
  - Seek advice from the Investment Advisory Council.
  - Notify the Office of Management and Budget.
  - Complete diligence and investment documentation.
  - Inform the Chairs of the Senate and House Finance Committees of any decision to move forward with an investment.

## **Asset Allocation Process**

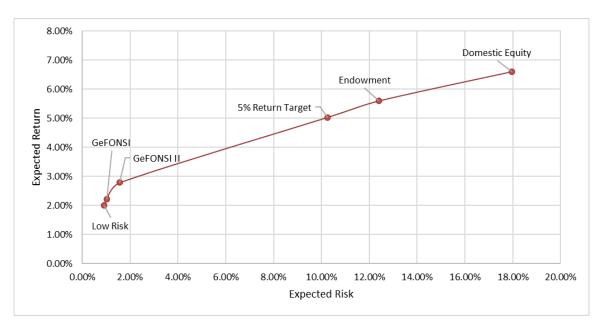
and

## **2022 Capital Market Assumptions**

## **State Asset Allocation Process**

- The Commissioner of Revenue is the fiduciary for over \$7 billion in state assets across 100+ accounts pooled into 24 funds with similar assets or mandates.
- Setting investment policies and asset allocations are key fiduciary duties for these funds.
- Staff reviews and makes recommendations on the investment policy and asset allocation of each fund at least annually.
- Each investment program is designed to balance fund investment objectives, risk tolerance, and other attributes:
  - Time horizon
  - Nominal or real return objectives
  - Cashflows, liquidity, and income needs
  - Capacity for loss or volatility over short, medium, and longer time horizons

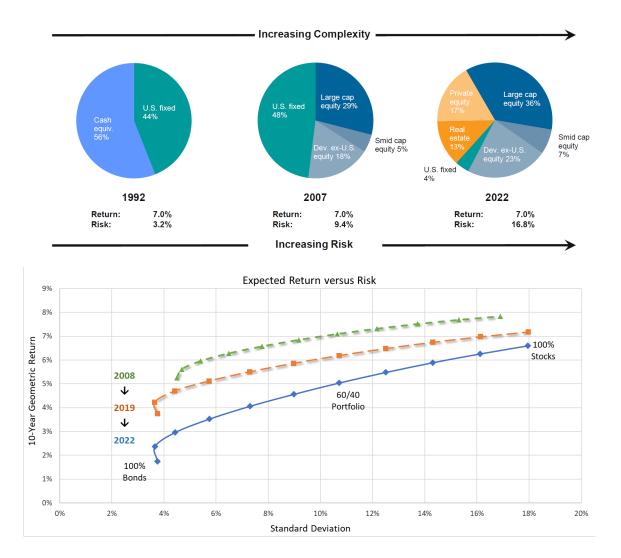
Fund - Account	Accets (2/21/22)	Diele Televence	Policy 1yr	Loss
Fund - Account	Assets (3/31/22)	Risk Tolerance	Risk/Loss	Magnitude
Short-Term Funds	\$167,061,791	Low	<1%	0 - 0.4%
CBRF - AY19	\$1,088,035,230	Low	<1%	0 - 0.4%
GeFONSI - AY01	\$1,627,204,325	Moderate	1-5%	0 - 1.5%
International Airport - AY04	\$164,765,449	Moderate	1-5%	0 - 1.5%
GeFONSI II - AY3F	\$1,169,371,837	Moderate-High	5-10%	1.5 - 5%
PCE Endowment - AY13	\$1,098,581,641	5% Return Tgt	>10%	5 - 20%
Retiree LTC - AY11	\$755,299,323	5% Return Tgt	>10%	5 - 20%
Public School Trust Fund - AY08	\$807,396,448	Endowment	>10%	5 - 20%
AK Higher Education - AY3L	\$393,078,025	Endowment	>10%	5 - 20%
Illinois Creek Mine - AY9J	\$1,451,319	Endowment	>10%	5 - 20%
Education Endowment - AY3G	\$808,760	Endowment	>10%	5 - 20%
Total	\$7,273,054,148			



## **Asset Allocation**

- Callan LLC, annually develops 10-year capital market assumptions for risk, return, and correlations using a building block approach.
- Return expectations have steadily declined over time due to lower rates, growth and inflation expectations due largely to global trade, technology, and the transition toward a service economy.
- Staff evaluates Callan's capital market assumptions, other provider's assumptions, and current market conditions to develop an asset allocation approach for each state fund.
- The goal is generally to maximize return or minimize risk consistent with investment objectives and risk tolerance using a combination of Modern Portfolio Theory and investment judgment.

#### 7% Expected Returns Over Past 30 Years



# **2022 Capital Market Assumptions**

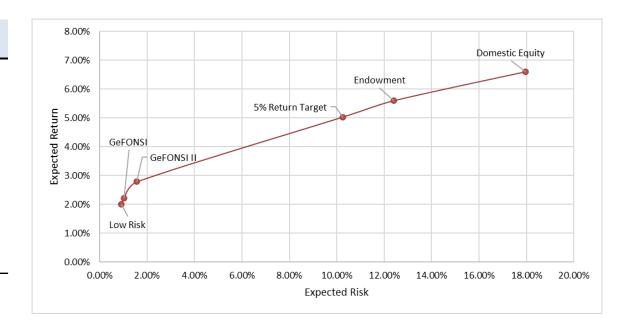
- In January, Callan released their 10-year capital market assumptions (CMAs) for 2022. Risk and correlation assumptions were largely unchanged from 2021. Long-term inflation expectations did increase which impacts real return forecasts.
- Staff selects a subset of these asset classes for use in state funds based on risk, return, diversification, complexity, and cost.
- For FY23, staff recommends continuing with the use of Broad U.S. Equities, International Equities, Core U.S. Fixed Income U.S. REITs, and Cash Equivalents for state funds.
- In Fiscal Year 2022, staff incorporated up to 20% of the fixed income allocation in a tactical bond portfolio that can opportunistically invest in high yield, TIPS, and other fixed income asset classes in a risk-managed fashion. For FY23, staff recommends targeting 20% to this strategy with a 25% maximum.
- Staff is also evaluating additional improvements to both fixed income and equities.

Asset Classes	2022 1-Year Arithmetic Return	2022 10-Year Geometric Return	Return Change	2022 Standard Deviation	2022 Correlation to Domestic Equity	2022 Real Return
Broad U.S. Equity	8.0%	6.6%	0.0%	18.0%	1.00	4.4%
Large Cap U.S. Equity	7.9%	6.5%	0.0%	17.7%	1.00	4.3%
Small/Mid Cap U.S. Equity	8.8%	6.7%	0.0%	21.3%	0.93	4.5%
International Equity	8.7%	6.8%	0.0%	20.7%	0.82	4.6%
Developed ex-U.S. Equity	8.3%	6.5%	0.0%	19.9%	0.78	4.3%
Emerging Market Equity	9.8%	6.9%	0.0%	25.2%	0.80	4.7%
Cash Equivalents	1.2%	1.2%	0.2%	0.9%	-0.06	-1.1%
Government 1-3 year Bonds	1.6%	1.5%	0.2%	3.5%	-0.25	-0.8%
Core U.S. Fixed Income	1.2%	1.8%	0.0%	3.8%	-0.10	-0.5%
TIPS	1.4%	1.3%	-0.5%	5.1%	-0.08	-1.0%
Emerging Market Sovereign Debt	4.0%	3.6%	0.1%	9.5%	0.56	1.4%
High Yield	4.4%	3.9%	-0.5%	10.8%	0.72	1.7%
Core Real Estate	6.6%	5.8%	0.0%	14.2%	0.64	3.5%
REITS	8.2%	6.2%	-0.1%	20.7%	0.80	4.0%
Private Equity	11.5%	8.0%	0.0%	27.6%	0.77	5.8%
Hedge Funds	4.4%	4.1%	0.1%	8.2%	0.79	1.9%
Inflation		2.3%	0.3%			
60/40 Portfolio		5.0%	0.0%			

## **Risk Tolerance Assessment**

General Risk Tolerance Assessment	Time Horizon	Probability of Loss (1yr)	Magnitude of Potential Loss	Discussion
Low	Short - Less than 1 year	>1%	0 - 0.4%	Unwilling to risk material short-term volatility because of the immediate need for the invested funds. Minimizing exposure of principal to loss is very important.
Moderate	Short to Intermediate - 1 to 2 years	1 - 5%	0 - 1.5%	Willing to assume an average amount of market risk and volatility to achieve higher returns.
Moderate-High	Intermediate - 2 to 6 years	5 - 10%	1.5 - 5%	Willing to assume an above average amount of risk, volatility and loss of principal to achieve higher returns.
High - 5% Return Target	Long - Greater than 6 years	>10%	5 - 20%	Willing to tolerate an amount of risk, volatility and loss of principal to achieve stated return target over long time periods.
High - Endowment	Long - Greater than 6 years	>10%	5 - 20%	Willing to assume a material amount or risk, volatility and loss of principal to take advantage or higher return opportunities.

Fund - Account	Assets (3/31/22)	Risk Tolerance	Policy 1yr Risk/Loss	Loss Magnitude
Short-Term Funds	\$167,061,791	Low	<1%	0 - 0.4%
CBRF - AY19	\$1,088,035,230	Low	<1%	0 - 0.4%
GeFONSI - AY01	\$1,627,204,325	Moderate	1-5%	0 - 1.5%
International Airport - AY04	\$164,765,449	Moderate	1-5%	0 - 1.5%
GeFONSI II - AY3F	\$1,169,371,837	Moderate-High	5-10%	1.5 - 5%
PCE Endowment - AY13	\$1,098,581,641	5% Return Tgt	>10%	5 - 20%
Retiree LTC - AY11	\$755,299,323	5% Return Tgt	>10%	5 - 20%
Public School Trust Fund - AY08	\$807,396,448	Endowment	>10%	5 - 20%
AK Higher Education - AY3L	\$393,078,025	Endowment	>10%	5 - 20%
Illinois Creek Mine - AY9J	\$1,451,319	Endowment	>10%	5 - 20%
Education Endowment - AY3G	\$808,760	Endowment	>10%	5 - 20%
Total	\$7,273,054,148			



# **2022 Asset Allocation Summary**

Current Asset Allocation Process:

- Evaluate the current attributes of each fund to identify the best balance of risk and return.
- Use Callan's capital market assumptions and Modern Portfolio Theory to arrive at asset allocations.
- Evaluate short-term return expectations for fixed income and cash equivalents using current yields and adjust cash risk and return if necessary.
- Emphasize diversification.

Asset Classes	Low	Moderate	Moderate High	High - 5% Return Target	High - Endowment
Broad U.S. Equity			4%	32%	39%
Global ex-U.S. Equity			2%	20%	25%
U.S. REITS				5%	5%
Core U.S. Fixed Income		15%	26%	42%	30%
Cash Equivalents	100%	85%	68%	1%	1%
Total	100%	100%	100%	100%	100%
Expected Return	2.0%	2.2%	2.8%	5.0%	5.6%
Risk - Standard Deviation	0.9%	1.0%	1.5%	10.2%	12.4%
Sharpe Ratio	0.0	0.2	0.5	0.4	0.4
Risk Statistics:					
10% Probable Annual Return (10% cVaR)	0.4%	0.4%	0.1%	-12.9%	-16.2%
5% Probable Annual Return (5% cVaR)	0.2%	0.1%	-0.4%	-16.1%	-20.0%
Probability of Loss - 1 Year	1.3%	1.4%	3.6%	31.2%	32.6%
Prob. Return < -1%	0.0%	0.1%	0.7%	27.8%	29.7%
Prob. Return < -2%	0.0%	0.0%	0.1%	24.6%	27.0%
Prob. Return < -3%	0.0%	0.0%	0.0%	21.6%	24.4%
Prob. Return < -4%	0.0%	0.0%	0.0%	18.9%	22.0%
Prob. Return < -5%	0.0%	0.0%	0.0%	16.4%	19.6%
Prob. Return < -10%	0.0%	0.0%	0.0%	7.1%	10.4%
Prob. Return < -20%	0.0%	0.0%	0.0%	0.7%	2.0%
Probability of Loss - 10 Year	0.0%	0.0%	0.0%	6.0%	7.7%
Asset Time Horizon Estimate	0.3	1.1	2.1	5.9	5.9
Return Statistics:					
Short-Term Expected Return	2.0%	2.2%	2.8%	5.7%	6.1%
Long-Term Expected Return	1.2%	1.3%	1.8%	5.0%	5.6%
Long-Term Real Return	-1.1%	-1.0%	-0.5%	2.8%	3.4%
Long-Term Yield	1.2%	1.5%	1.7%	2.5%	2.4%
Capital Gain	0.8%	0.8%	1.1%	2.5%	3.2%
Dollars: (\$Millions)					
Assets	1,255	1,792	1,169	1,854	1,203
Expected Annual Earnings	25	40	32	93	67
10% Probable Annual Return (10% cVaR)	5	8	1	-240	-195
5% Probable Annual Return (5% cVaR)	2	2	-5	-298	-241

## **Low Risk Tolerance Funds**

### **Short Term Funds - \$167 Million**

#### FY2022 Short-Term Funds Investment Policy

The Department manages several funds that have high liquidity requirements necessitating investment entirely in short-term fixed income. The following funds are covered by this policy:

AY03 - Retiree Health Insurance Fund AY3B - International Airports 2010-B AY05 - International Airport Repair and Replacement Fund AY3V - 2010-C GO Bonds AY28 - Investment Loss Trust Fund AY3Y - 2013-C GO Bonds AY2E - 2002 Series Reserve Account AY3Z - 2013-B GO Bonds AY2G - Permanent Fund Dividend Holding Account AY9X - 2006B Non-AMT Construction Fund AY2Q - 2008 Transportation Project GO Bonds AY9Y - 2006 Series Variable Rate AY2U - 2003 Series Reserve Account

AY3A - Internation	al Airports 2010-A
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AY3Q - FY 2017 2016B - 2012 Transportation Bond /

Investment Topic	Proposed Policy	Current Policy
Investment Objective	Very low exposure to principal loss. Modest current income requirement. Little inflation protection needed. High liquidity requirement.	No Change
Risk Tolerance	Low	No Change
Policy Risk/Loss Range	<1%	No Change
Time Horizon	Short	No Change
Asset Allocation	Broad U.S. Equity International Equity U.S. REITs Core U.S. Fixed Income Cash Equivalents 100%	100%
Expected Return - Short-Term	0.05%	0.17%
Risk - Standard Deviation	0.05%	
Probability of Loss - 1 Year 10% Probability of Annual Loss (10% cVaR)	15.9% 0.0%	

The proposed policy is effective July 1, 2021:

lucinda mahonsy

Approved

6/25/2021 Date

State of Alaska FY202	3 Asset Allocation		Asset I	Mix Alterna	atives			
Asset Classes		1	2	3	4	5	Prior Year	ST Funds
Broad U.S. Equity		0.0%	0.0%	0.0%	0.0%	0.0%		
Global ex-U.S. Equity		0.0%	0.0%	0.0%	0.0%	0.0%		
US REITS		0.0%	0.0%	0.0%	0.0%	0.0%		
Core U.S. Fixed Incom	e	0.0%	5.0%	10.0%	15.0%	20.0%		
Cash Equivalents	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	100.0%	95.0%	90.0%	85.0%	80.0%	100%	100%
Total		100%	100%	100%	100%	100%	100%	100%
Expected Return - S	hort-Term	2.01%	2.08%	2.15%	2.22%	2.29%	0.05%	2.01%
Risk - Standard Dev	riation	0.90%	0.90%	0.94%	1.02%	1.11%	0.05%	0.90%
Sharpe Ratio		(0.00)	0.08	0.15	0.21	0.26		(0.00)
Risk Statistics:								
10% Probable Annu	ial Return (10% cVa	0.4%	0.5%	0.5%	0.4%	0.3%	0.0%	0.4%
5% Probable Annua	•		0.2%	0.2%	0.1%	0.0%	-0.1%	0.2%
Probability of Loss	· · ·	1.3%	1.1%	1.1%	1.4%	2.0%	15.9%	1.3%
، Prob. Return < -19		0.0%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%
Prob. Return < -29	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -39	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -49	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -59	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -10	0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -20	0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Probability of Loss	- 10 Year	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
Asset Time Horizon	Estimate	0.3	0.5	0.8	1.1	1.4	0.3	0.3
Return Statistics:								
Short-Term Expecte	d Return	2.01%	2.08%	2.15%	2.22%	2.29%	0.05%	2.01%
Long-Term Expected		1.20%	1.23%	1.26%	1.29%	1.31%	0.05%	1.20%
Long-Term Real Retu	urn	-1.05%	-1.02%	-0.99%	-0.96%	-0.94%		-1.05%
Long-Term Yield		1.20%	1.29%	1.37%	1.46%	1.54%		1.20%
Capital Gain		0.81%	0.79%	0.78%	0.77%	0.75%		0.81%
Arithmetic Return		2.01%	2.08%	2.16%	2.23%	2.30%		2.01%
Dollars: (\$Millions)								
Assets		167.1	167.1	167.1	167.1	167.1		167.1
Expected Annual Ea	rnings	3.4	3.5	3.6	3.7	3.8		3.4
5% Probable Annua	l Return (5% cVaR)	0.3	0.4	0.3	0.2	(0.0)		0.3
Cash History	2022 2021	2020	2019	2018	2017	2016	2015	2014
Expected ST Return	0.05% 0.17%	6 1.93%	2.25%	2.25%	2.25%	6 2.25%	2.25%	2.00%
Expected Volatility	0.05% 0.90%							
10% cVaR	0.00% -1.419							
10/0 C Vall	0.00/0 1.41	0.5570	0.0770	0.0770	. 0.077	0.0770	0.0770	0.72/

### **CBRF – \$1.1 Billion**

#### AY19: FY2022 CBRF Investment Policy

The investment policies for the Constitutional Budget Reserve Fund (CBRF) have changed over the years as the balance and the expected uses of the CBRF have changed. Declining production of Alaska North Slope crude oil and the inconsistency of future prices are still a concern. The CBRF is the state's "savings account" and as such is responsible for covering fluctuations in the general fund.

Financial planning by the administration and the legislature is highly dependent upon the CBRF balance maintaining stability and high liquidity. Given the short-term expected requirement for these funds, a cash equivalent investment program is warranted.

Investment Topic	Proposed Policy	Current Policy
Investment Objective	Very low exposure to principal loss. Little inflation protection needed. High liquidity requirement.	No Change
Risk Tolerance	Low	No Change
Policy Risk/Loss Range	<1%	No Change
Time Horizon	Short	No Change
Asset Allocation	Broad U.S. Equity International Equity U.S. REITs Core U.S. Fixed Income Cash Equivalents 100%	100%
Expected Return - Short-Term	0.05%	0.17%
Risk - Standard Deviation	0.05%	
Probability of Loss - 1 Year 10% Probability of Annual Loss (10% cVaR)	15.9% 0.0%	

The proposed policy is effective July 1, 2021:

lucinda mahoney

Approved

6/25/2021 Date

State of Alaska FY2023 Asset Allocation		Asset	Mix Altern	atives					
Asset Classes	1	2	3	4	5	Prior Year	CBRF	GeFONSI	GeFONSI II
Broad U.S. Equity	0.0%	0.0%	0.0%	0.0%	0.0%				4%
Global ex-U.S. Equity	0.0%	0.0%	0.0%	0.0%	0.0%				2%
US REITS	0.0%	0.0%	0.0%	0.0%	0.0%				
Core U.S. Fixed Income	0.0%	5.0%	10.0%	15.0%	20.0%			15%	26%
Cash Equivalents	100.0%	95.0%	90.0%	85.0%	80.0%	100%	100%	85%	68%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%
Expected Return - Short-Term	2.01%	2.08%	2.15%	2.22%	2.29%	0.05%	2.01%	2.22%	2.75%
Risk - Standard Deviation	0.90%	0.90%	0.94%	1.02%	1.11%	0.05%	0.90%	1.02%	1.52%
Sharpe Ratio	(0.00)	0.08	0.15	0.21	0.26		(0.00)	0.21	0.49
Risk Statistics:									
10% Probable Annual Return (10% cVa	0.4%	0.5%	0.5%	0.4%	0.3%	0.0%	0.4%	0.4%	0.1%
5% Probable Annual Return (5% cVaR)	0.2%	0.2%	0.2%	0.1%	0.0%	-0.1%	0.2%	0.1%	-0.4%
Probability of Loss - 1 Year	1.3%	1.1%	1.1%	1.4%	2.0%	15.9%	1.3%	1.4%	3.6%
Prob. Return < -1%	0.0%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.1%	0.7%
Prob. Return < -2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Prob. Return < -3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -10%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -20%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Probability of Loss - 10 Year	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
Asset Time Horizon Estimate	0.3	0.5	0.8	1.1	1.4	0.3	0.3	1.1	2.1
Return Statistics:									
Short-Term Expected Return	2.01%	2.08%	2.15%	2.22%	2.29%	0.05%	2.01%	2.22%	2.75%
Long-Term Expected Return	1.20%	1.23%	1.26%	1.29%	1.31%	0.05%	1.20%	1.29%	1.77%
Long-Term Real Return	-1.05%	-1.02%	-0.99%	-0.96%	-0.94%		-1.05%	-0.96%	-0.48%
Long-Term Yield	1.20%	1.29%	1.37%	1.46%	1.54%		1.20%	1.46%	1.69%
Capital Gain	0.81%	0.79%	0.78%	0.77%	0.75%		0.81%	0.77%	1.06%
Arithmetic Return	2.01%	2.08%	2.16%	2.23%	2.30%		2.01%	2.23%	2.76%
Dollars: (\$Millions)									
Assets	1,088.0	1,088.0	1,088.0	1,088.0	1,088.0		1,088.0	1,627.2	1,169.4
Expected Annual Earnings	21.8	22.6	23.4	24.2	25.0		21.8	36.2	32.2
5% Probable Annual Return (5% cVaR)	1.6	2.4	2.3	1.4	(0.1)		1.6	2.1	(4.6)

CBRF History	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Expected ST Return	0.05%	0.17%	2.32%	2.89%	2.89%	2.89%	2.89%	2.38%	2.30%	3.01%
Expected Volatility	0.05%	0.90%	1.23%	1.64%	1.62%	1.59%	1.58%	1.58%	2.06%	2.31%
10% cVaR	0.00%	-1.41%	0.16%	0.01%	0.05%	0.10%	0.12%	-0.40%	-1.32%	-1.04%
Assets (billions)	1.1	1.1	2.0	1.8	2.4	3.9	7.3	10.1	6.1	5.8

## **Moderate Risk Tolerance Funds**

# **GeFONSI I and II – Top 60 Participants 3/31/22**

		Ending	Cum.			Ending	Cum.
GF	Fund Name	Balance	%/Total	GF	Fund Name	Balance	%/Total
GFI	General Fund	\$1,048,415,352	62%	GFII	Statutory Budget Reserve Fund	\$161,412,802	14%
GFI	Alaska Clean Water Fund	\$126,065,878	70%	GFII	Public Education Fund	\$109,006,160	23%
GFI	Alaska Drinking Water Fund	\$77,782,459	74%	GFII	Highway Equipment Working Capital Fund For Operating Appropriations	\$100,881,717	31%
GFI	Oil & Hazardous Substance Release Response Account	\$43,363,558	77%	GFII	Disaster Relief Fund	\$66,832,005	37%
GFI	Public Advocacy Trust	\$42,153,132	79%	GFII	School Construction Fund	\$66,764,957	42%
GFI	Fish & Game Fund	\$38,995,769	82%	GFII	Community Revenue Sharing Fund	\$64,948,219	48%
GFI	Mental Health Trust Income Settlement Account	\$27,799,800	83%	GFII	Regional Ed Attendance Area School Fund	\$59,062,757	53%
GFI	DVA Retiree Health	\$24,409,431	85%	GFII	National Petroleum Reserve Fund	\$55,963,577	57%
GFI	Renewable Energy Grant Fund	\$21,324,611	86%	GFII	Alaska Comprehensive Health Insurance Fund	\$49,846,818	62%
GFI	Vaccine Assessment Fund	\$20,251,078	87%	GFII	Commercial Fishing Revolving Loan Fund	\$48,491,668	66%
GFI	Group Health And Life Insurance Fund	\$19,214,972	88%	GFII	Alaska Marine Highway System Vessel Replacement Fund	\$46,489,912	70%
GFI	Oil & Hazardous Substance Release Prevention Account	\$14,720,687	89%	GFII	Major Maintenance Grant Fund	\$46,058,781	73%
GFI	Bulk Fuel Loans Fund	\$14,426,888	90%	GFII	Deposits, Suspense & Miscellaneous	\$38,362,641	77%
GFI	PFD Trust	\$12,630,247	91%	GFII	Fisheries Enhancement Revolving Loan Fund	\$36,075,927	80%
GFI	Railbelt Energy Fund	\$11,281,420	91%	GFII	Alaska Capital Income Fund	\$28,117,156	82%
GFI	Bulk Fuel Bridge Loan Fund	\$8,362,704	92%	GFII	Alaska Marine Highway System Fund	\$20,616,789	84%
GFI	School Trust Land Sales-GF Portion	\$7,547,627	92%	GFII	Tobacco Use Education & Cessation	\$19,301,860	85%
GFI	Liquified Natural Gas Fund/Alaska Gasline Development Corp	\$7,067,436	93%	GFII	Unclaimed Property	\$19,227,061	87%
GFI	Alaska Drinking Water Administrative Operating Account	\$6,828,631	93%	GFII	Alaska Public Building Fund	\$17,162,310	89%
GFI	Memorial Education Revolving Loan Fund	\$6,622,323	94%	GFII	Due To Fund 21685	\$16,926,759	90%
GFI	AIA Passenger Facility Charge Revenue Fund Application #2	\$6,462,536	94%	GFII	Alcohol & Other Drug Abuse Treatment & Prevention	\$13,353,952	91%
GFI	Small Business Economic Development Revolving Loan Fund 4	\$5,962,099	94%	GFII	Agricultural Revolving Loan Fund	\$12,922,880	92%
GFI	Alaska Clean Water Administrative Operating Account	\$5,921,069	95%	GFII	Alaska Fishermen's Fund	\$12,676,109	93%
GFI	Google Cost Sharing Fund	\$5,616,731	95%	GFII	State Insurance Catastrophe Reserve	\$11,839,909	94%
GFI	ATIB Repayment Account	\$4,602,416	95%	GFII	Employee Assistance & Training Program Account	\$7,695,943	95%
GFI	Rural Development Initiative Fund	\$4,601,320	96%	GFII	Information Services Fund	\$7,241,931	95%
GFI	Mariculture RLF	\$4,544,082	96%	GFII	Second Injury Fund	\$6,547,223	96%
GFI	Election Fund	\$4,430,131	96%	GFII	School Fund	\$6,526,413	97%
GFI	Alaska Capstone Avionics Revolving Loan Fund	\$4,381,425	96%	GFII	State Land Disposal Income	\$6,307,160	97%
GFI	Workers' Comp Benefits Guaranty Fund	\$4,299,478	97%	GFII	Recidivism Reduction Fund	\$4,794,793	97%

### **GeFONSI - \$1.6 Billion**

#### AY01: FY2022 GeFONSI Investment Policy

The General Fund constitutes the largest element of the General Fund and Other Non-Segregated Investments (GeFONSI) fund. Much of the money in the fund has been appropriated and a material loss could affect the state's ability to fulfill its obligations. Treasury expects much of the money in the pool to be spent in less than one year. Accordingly, the allocation should allow minimal exposure to principal loss. Equities are not recommended for the GeFONSI.

Investment Topic	Proposed Policy	Current Policy		
Investment Objective	Minimal exposure to principal loss. Maximize current income within moderate risk tolerance. Minimal inflation protection needed. High liquidity requirement.	No Change		
Risk Tolerance	Moderate	No Change		
Policy Risk/Loss Range	1 - 5%	No Change		
Time Horizon	Short to Intermediate	No Change		
Asset Allocation	Broad U.S. Equity International Equity U.S. REITs Core U.S. Fixed Income 15% ±10% Cash Equivalents 85% ±10%	23% ±10% 77% ±10%		
Expected Return - Short-Term	0.27%	0.44%		
Risk - Standard Deviation	0.57%			
Probability of Loss - 1 Year 10% Probability of Annual Loss (10% cVaR)	32.0% 0.7%			

The proposed policy is effective July 1, 2021:

lucinda mahonsy Approved

6/25/2021 Date

State of Alaska FY202	3 Asset Allo	ocation		Asset	Mix Alterna	atives			
Asset Classes			1	2	3	4	5	Prior Year	GeFONSI
Broad U.S. Equity			0.0%	0.0%	0.0%	0.0%	0.0%		
Global ex-U.S. Equity			0.0%	0.0%	0.0%	0.0%	0.0%		
US REITS			0.0%	0.0%	0.0%	0.0%	0.0%		
Core U.S. Fixed Income	9		0.0%	5.0%	10.0%	15.0%	20.0%	15%	15%
Cash Equivalents			100.0%	95.0%	90.0%	85.0%	80.0%	85%	85%
Total			100%	100%	100%	100%	100%	100%	100%
Optimization Results:									
Expected Return - S	hort-Term		2.01%	2.08%	2.15%	2.22%	2.29%	0.27%	2.22%
Risk - Standard Devi	ation		0.90%	0.90%	0.94%	1.02%	1.11%	0.57%	1.02%
Sharpe Ratio			(0.00)	0.08	0.15	0.21	0.26	0.38	0.21
Risk Statistics:									
10% Probable Annu	al Return (2	10% cVaR)	0.4%	0.5%	0.5%	0.4%	0.3%	-0.7%	0.4%
5% Probable Annua	Return (59	% cVaR)	0.2%	0.2%	0.2%	0.1%	0.0%	-0.9%	0.1%
Probability of Loss	-1 Year		1.3%	1.1%	1.1%	1.4%	2.0%	32.0%	1.4%
Prob. Return < -۱۶	6		0.0%	0.0%	0.0%	0.1%	0.2%	1.3%	0.1%
Prob. Return < -2%	6		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -3%	6		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -4%	6		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -5%	6		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -10	1%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -20	1%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Probability of Loss	10 Year		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Asset Time Horizon	Estimate	-	0.3	0.5	0.8	1.1	1.4		1.1
Return Statistics:									
Short-Term Expected	l Return		2.01%	2.08%	2.15%	2.22%	2.29%	0.27%	2.22%
Long-Term Expected	Return		1.20%	1.23%	1.26%	1.29%	1.31%	1.12%	1.29%
Long-Term Real Retu	ırn		-1.05%	-1.02%	-0.99%	-0.96%	-0.94%	-0.88%	-0.96%
Long-Term Yield			1.20%	1.29%	1.37%	1.46%	1.54%	1.23%	1.46%
Capital Gain			0.81%	0.79%	0.78%	0.77%	0.75%	-0.96%	0.77%
Dollars: (\$Millions)									
Assets			1,627.2	1,627.2	1,627.2	1,627.2	1,627.2		1,627.2
Expected Annual Ea	rnings		32.7	33.8	35.0	36.2	37.3		36.2
10% Probable Annu	al Loss (10	% cVaR)	7.0	8.1	8.1	7.2	5.5		7.2
GeFONSI History	2022	2021	2020	2019	2018	2017	2016	2015	2014
Expected ST Return	0.27%	0.44%	1.91%	2.38%	2.38%	2.36%	2.30%	2.30%	2.14%
Expected Volatility	0.57%	1.16%	0.93%	1.08%	1.08%			1.08%	1.28%
10% cVaR	-0.70%	-1.60%	0.28%	0.48%	0.48%	0.46%		0.40%	-0.119

**2013** 2.87%

1.33%

0.54%

### **International Airport Revenue Fund - \$165 Million**

#### AY04: FY2022 International Airport Revenue Fund Investment Policy

The Revenue Fund maintains a significant balance and the investment earnings on that balance are a revenue source for the airport system. Airport management and airline representatives want to keep fees as stable and low as practical. Relatively stable investment earnings assist the airport system and the airlines in meeting that goal.

Beginning October 2000, the Revenue Fund contained receipts from passenger facility charges collected at the Anchorage and Fairbanks International Airports. All the airport systems' revenue and expenses flow through the Revenue Fund. This includes normal operating transactions and most repair and maintenance projects. This subjects the Revenue Fund to the possibility of relatively significant cash inflows and outflows.

Investment Topic	Proposed Policy	Current Policy
Investment Objective	Minimal exposure to principal loss. Maximize current income within moderate risk tolerance. Minimal inflation protection needed. High liquidity requirement.	No Change
Risk Tolerance	Moderate	No Change
Policy Risk/Loss Range	1 - 5%	No Change
Time Horizon	Short to Intermediate	No Change
Asset Allocation	Broad U.S. Equity International Equity U.S. REITs Core U.S. Fixed Income 15% ±10% Cash Equivalents 85% ±10%	23% ±10% 77% ±10%
Expected Return - Short-Term	0.27%	0.44%
Risk - Standard Deviation	0.57%	
Probability of Loss - 1 Year 10% Probability of Annual Loss (10% cVaR)	32.0% 0.7%	

The proposed policy is effective July 1, 2021:

lucinda mahoney Approved

6/25/2021 Date

State of Alaska FY2023 Asset Allocation	of Alaska FY2023 Asset Allocation Asset Mix Alternatives						
Asset Classes	1	2	3	4	5	Prior Year	Intl Airport
Broad U.S. Equity	0.0%	0.0%	0.0%	0.0%	0.0%		
Global ex-U.S. Equity	0.0%	0.0%	0.0%	0.0%	0.0%		
US REITS	0.0%	0.0%	0.0%	0.0%	0.0%		
Core U.S. Fixed Income	0.0%	5.0%	10.0%	15.0%	20.0%	15%	15%
Cash Equivalents	100.0%	95.0%	90.0%	85.0%	80.0%	85%	85%
Total	100%	100%	100%	100%	100%	100%	100%
Optimization Results:							
Expected Return - Short-Term	2.01%	2.08%	2.15%	2.22%	2.29%	0.27%	2.22%
Risk - Standard Deviation	0.90%	0.90%	0.94%	1.02%	1.11%	0.57%	1.02%
Sharpe Ratio	(0.00)	0.08	0.15	0.21	0.26	0.38	0.21
Risk Statistics:							
10% Probable Annual Return (10% cVaR)	0.4%	0.5%	0.5%	0.4%	0.3%	-0.7%	0.4%
5% Probable Annual Return (5% cVaR)	0.2%	0.2%	0.2%	0.1%	0.0%	-0.9%	0.1%
Probability of Loss - 1 Year	1.3%	1.1%	1.1%	1.4%	2.0%	32.0%	1.4%
Prob. Return < -1%	0.0%	0.0%	0.0%	0.1%	0.2%	1.3%	0.1%
Prob. Return < -2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -10%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -20%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Probability of Loss - 10 Year	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Asset Time Horizon Estimate	0.3	0.5	0.8	1.1	1.4		1.1
Return Statistics:							
Short-Term Expected Return	2.01%	2.08%	2.15%	2.22%	2.29%	0.27%	2.22%
Long-Term Expected Return	1.20%	1.23%	1.26%	1.29%	1.31%	1.12%	1.29%
Long-Term Real Return	-1.05%	-1.02%	-0.99%	-0.96%	-0.94%	-0.88%	-0.96%
Long-Term Yield	1.20%	1.29%	1.37%	1.46%	1.54%	1.23%	1.46%
Capital Gain	0.81%	0.79%	0.78%	0.77%	0.75%	-0.96%	0.77%
Dollars: (\$Millions)							
Assets	164.8	164.8	164.8	164.8	164.8		164.8
Expected Annual Earnings	3.3	3.4	3.5	3.7	3.8		3.7
10% Probable Annual Loss (10% cVaR)	0.7	0.8	0.8	0.7	5.8 0.6		0.7
	0.7	0.0	0.0	0.7	0.0		0.7

### **GeFONSI II - \$1.2 Billion**

#### AY3F: FY2022 GeFONSI II Investment Policy

GeFONSI II is comprised of funds that do not benefit from positive investment returns, nor bear the risk of loss in the event of negative returns. The General Fund benefits, or is harmed, by these returns. GeFONSI II is invested more aggressively than is the GeFONSI. The premise for the higher risk posture is that over the course of several years the General Fund will generate more total return, despite having a higher risk of loss in any given year.

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6/25/2021 Date

Investment Topic	Proposed Policy	Current Policy		
Investment Objective	Tolerate moderate exposure to principal loss to target modestly higher returns.	No Change		
Risk Tolerance	Moderate-High	No Change		
Policy Risk/Loss Range	5 - 10%	No Change		
Time Horizon	Intermediate	No Change		
Asset Allocation	Broad U.S. Equity 4% - 4%/+5%   International Equity 2% - 2%/+5%   U.S. REITs 26% ±10%   Core U.S. Fixed Income 26% ±10%   Cash Equivalents 68% ±10%	4% - 4%/+5% 3% - 3%/+5% 18% ±10% 75% ±10%		
Expected Return - Short-Term	0.91%	0.94%		
Risk - Standard Deviation	1.37%			
Probability of Loss - 1 Year 10% Probability of Annual Loss (10% cVaR)	25.3% 1.5%			

The proposed policy is effective July 1, 2021:

lucinda mahonsy Approved

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State of Alaska FY2023	Asset Allocation		Ass	et Mix Alter	natives			
Asset Classes		1	2	3	4	5	Prior Year	GeFONSI II
Broad U.S. Equity		1.0%	1.9%	2.6%	3.9%	5.2%	4%	4%
Global ex-U.S. Equity		1.5%	2.1%	2.7%	3.6%	4.5%	2%	2%
US REITS		0.0%	0.0%	0.0%	0.0%	0.0%	***************************************	
Core U.S. Fixed Income		12.3%	21.1%	27.9%	40.1%	51.5%	26%	26%
Cash Equivalents		85.3%	74.9%	66.8%	52.4%	38.9%	68%	68%
Total		100%	100%	100%	100%	100%	100%	100%
Optimization Results:								
Expected Return - Sho	ort-Term	2.34%	2.57%	2.74%	3.05%	3.34%	0.91%	2.75%
Risk - Standard Devia	tion	1.00%	1.25%	1.50%	2.00%	2.50%	1.37%	1.52%
Sharpe Ratio		0.33	0.44	0.49	0.52	0.53	0.63	0.49
Risk Statistics:								
10% Probable Annual	Return (10% cVaR	0.6%	0.4%	0.1%	-0.5%	-1.0%	-1.5%	0.1%
5% Probable Annual R	•	0.3%	0.0%	-0.4%	-1.1%	-1.8%	-1.9%	-0.4%
Probability of Loss - 1	. ,	1.0%	2.0%	3.4%	6.4%	9.1%	25.3%	3.6%
, Prob. Return < -1%		0.0%	0.2%	0.6%	2.1%	4.1%	8.2%	0.7%
Prob. Return < -2%		0.0%	0.0%	0.1%	0.6%	1.6%	1.7%	0.1%
Prob. Return < -3%		0.0%	0.0%	0.0%	0.1%	0.6%	0.2%	0.0%
Prob. Return < -4%		0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%
Prob. Return < -5%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -10%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prob. Return < -20%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Probability of Loss - 1	.0 Year	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Asset Time Horizon Es	timate	1.1	1.7	2.2	3.0	3.8	2.1	2.1
Return Statistics:								
Short-Term Expected F	Return	2.34%	2.57%	2.74%	3.05%	3.34%	0.91%	2.75%
Long-Term Expected R	eturn	1.45%	1.61%	1.74%	1.96%	2.17%	1.64%	1.77%
Long-Term Real Return	า	-0.80%	-0.64%	-0.51%	-0.29%	-0.08%	-0.36%	-0.48%
Long-Term Yield		1.43%	1.60%	1.72%	1.95%	2.16%	1.46%	1.69%
Capital Gain		0.91%	0.97%	1.02%	1.10%	1.18%	-0.55%	1.06%
Arithmetic Return		2.34%	2.57%	2.75%	3.07%	3.36%	0.92%	2.76%
Dollars: (\$Millions)								
Assets		1,169.4	4 1,169.4	4 1,169.4	1,169.4	1,169.4		1,169.4
Expected Annual Earn	ings	27.4	4 30.	0 32.1	35.7	39.0		32.2
5% Probable Annual F	Return (5% cVaR)	3.2	2 (0.:	2) (4.1	) (12.6)	(21.3)		(4.6)
GeFONSI II History	2022 20	21	2020	2019	2018			
Expected ST Return	0.91% 0.9		2.37%	3.38%	3.38%			
Expected Volatility	1.37% 1.4		1.61%	2.63%	2.58%			
10% cVaR	-1.50% -1.6				-1.15%			

# **High Risk Tolerance Funds**

### **High Risk/Endowment Profile Funds**

10% cVaR

6/25/2021

Date

State of Alaska EV2023 Asset Allocation

#### AY08: FY2022 Public School Trust Fund Investment Policy

The Public School Trust Fund is a fund dedicated to the benefit of Alaska's public schools. The central objective is to provide "increasing returns from capital appreciation and net income over long-term periods to the fund's current beneficiaries." The fund may be invested "on the basis of probable total rate of return to promote the long-term generation of capital appreciate and income."

On July 1 of each year, the commissioner shall determine the monthly average market value of the fund for the previous five fiscal years preceding the previous fiscal year. The legislature may appropriate not more than five percent of the amount determined by the commissioner. Pending signature by the governor, the appropriated amount may be expended the following fiscal year.

Investment Topic	Proposed Policy	Current Policy		
Investment Objective	High exposure of principal to loss in return for higher expected Longer-term returns. Limited current income requirement. Limited inflation protection needed. Moderate liquidity requirement.	No Change		
Risk Tolerance	High	No Change		
Policy Risk/Loss Range	>10%	No Change		
Time Horizon	Long	No Change		
Asset Allocation	Broad U.S. Equity 39% ± 5%   International Equity 25% ± 5%   U.S. REITs 5% ± 5%   Core U.S. Fixed Income 30% ± 5%   Cash Equivalents 1% - 1%/+2%	42% ± 5% 28% ± 5% 29% ± 5% 1% - 1%/+2%		
Expected Return - Long-Term	5.62%	6.37%		
Risk - Standard Deviation	12.50%			
Probability of Loss - 1 Year 10% Probability of Annual Loss (10% cVaR)	32.9% 16.4%			

The proposed policy is effective July 1, 2021:

lucinda mahonsy Approved

State of Alaska FY2023 Asset Allocation		Asset I	Mix Altern	atives				
Asset Classes	1	2	3	4	5	Prior Year	Endowment	70/30
Broad U.S. Equity	39.3%	39.5%	39.9%	40.5%	40.9%	39%	39%	70%
Global ex-U.S. Equity	24.2%	24.5%	24.7%	24.6%	24.8%	25%	25%	0%
US REITS	5.0%	5.0%	5.0%	5.0%	5.0%	5%	5%	0%
Core U.S. Fixed Income	30.5%	30.0%	29.4%	28.9%	28.3%	30%	30%	30%
Cash Equivalents	1.0%	1.0%	1.0%	1.0%	1.0%	1%	1%	0%
Total	100%	100%	100%	100%	100%	100%	100%	100%
Optimization Results:								
Expected Return - Long-Term	5.57%	5.60%	5.62%	5.65%	5.67%	5.62%	5.60%	5.48%
Risk - Standard Deviation	12.30%		12.50%	12.60%	12.70%	12.50%	12.41%	12.50%
Sharpe Ratio	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.34
Sharpe Kato	0.50	0.55	0.55	0.55	0.55	0.55	0.55	0.34
Risk Statistics:								
10% Probable Annual Loss (10% cVaR)	-16.0%	-16.2%	-16.3%	-16.5%	-16.6%	-16.4%	-16.2%	-16.5%
5% Probable Annual Loss (5% cVaR)	-19.8%	-20.0%	-20.2%	-20.3%	-20.5%	-20.3%	-20.0%	-20.3%
Probability of Loss - 1 Year	32.5%	32.6%	32.6%	32.7%	32.8%	32.9%	32.6%	33.1%
Prob. Return < -1%	29.7%	29.7%	29.8%	29.9%	30.0%	30.1%	29.7%	30.2%
Prob. Return < -2%	26.9%	27.0%	27.1%	27.2%	27.3%	27.4%	27.0%	27.5%
Prob. Return < -3%	24.3%	24.4%	24.5%	24.6%	24.7%	24.8%	24.4%	24.9%
Prob. Return < -4%	21.8%	21.9%	22.1%	22.2%	22.3%	22.3%	22.0%	22.4%
Prob. Return < -5%	19.5%	19.6%	19.8%	19.9%	20.0%	20.0%	19.6%	20.1%
Prob. Return < -10%	10.3%	10.4%	10.6%	10.7%	10.9%	10.7%	10.4%	10.8%
Prob. Return < -20%	1.9%	1.9%	2.0%	2.1%	2.2%	2.1%	2.0%	2.1%
Probability of Loss - 10 Year	7.6%	7.7%	7.7%	7.8%	7.9%	7.8%	7.7%	8.3%
Asset Time Horizon Estimate	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.0
Return Statistics:								
Short-Term Expected Return	6.08%	6.10%	6.12%	6.13%	6.15%	5.52%	6.10%	5.97%
Long-Term Expected Return	5.57%	5.60%	5.62%	5.65%	5.67%	5.62%	5.60%	5.48%
Long-Term Real Return	3.32%	3.35%	3.37%	3.40%	3.42%	3.62%	3.35%	3.23%
Long-Term Yield	2.41%	2.41%	2.41%	2.40%	2.39%	2.45%	2.42%	2.06%
Capital Gain	3.16%	3.19%	3.22%	3.25%	3.28%	3.17%	3.19%	3.42%
Dollars: (\$Millions)	1 202 7	1 202 7	1 202 7	1 202 7	1 202 7		1 202 7	1 202 7
Assets	1,202.7	1,202.7	1,202.7	1,202.7	1,202.7		1,202.7	1,202.7
Expected Annual Earnings	67.0	67.3	67.6	67.9	68.2		67.4	65.9
10% Probable Annual Loss (10% cVaR	(192.6)	(194.4)	(196.2)	(198.0)	(199.9)		(194.6)	(197.9)
High Risk History 2022 202	21 2020	2019	ə 201	.8 20	17 201	6 201	5 2014	2013
Expected LT Return 5.62% 6.37								6.25%
Expected Volatility 12.50% 12.6								10.55%
Expected volatility 12.50% 12.0	070 12.30	12.70	/0 12./	U/0 12.3	JJ/0 13.23	10 13.23	70 II.0U/0	10.55%

-16.40% -15.74% -15.36% -16.09% -16.08% -16.18% -16.49% -16.49% -14.46% -12.27%

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## **High Risk/Endowment Profile Funds - Continued**

#### AY08: FY2022 Public School Trust Fund Investment Policy

The Public School Trust Fund is a fund dedicated to the benefit of Alaska's public schools. The central objective is to provide "increasing returns from capital appreciation and net income over long-term periods to the fund's current beneficiaries." The fund may be invested "on the basis of probable total rate of return to promote the long-term generation of capital appreciate and income."

On July 1 of each year, the commissioner shall determine the monthly average market value of the fund for the previous five fiscal years preceding the previous fiscal year. The legislature may appropriate not more than five percent of the amount determined by the commissioner. Pending signature by the governor, the appropriated amount may be expended the following fiscal year.

Investment Topic	Proposed Policy	Current Policy
Investment Objective	High exposure of principal to loss in return for higher expected Longer-term returns. Limited current income requirement. Limited inflation protection needed. Moderate liquidity requirement.	No Change

#### AY9J: FY2022 Illinois Creek Mine Reclamation Investment Policy

The Illinois Creek Gold Mine is a remote gold mine located on state land approximately 51 miles south of Galena, Alaska. Construction of the gold mine began in June, 1996. The companies responsible for the mine dissolved, the financier abandoned its ownership rights, and the State of Alaska inherited operating responsibility for the mine in July 1999. Following reclamation of the mine by American Reclamation Group, the State now assumes responsibility to monitor the site and to fix unexpected post-reclamation problems. To fund the post-closure monitoring and any potential maintenance, this trust fund was created. The Department of Revenue will manage the fund and Department of Natural Resources will withdraw funds for monitoring and reclamation obligations.

Investment Topic	Proposed Policy	Current Policy
Investment Objective	Maximize return while still being able to fund uncertain maintenance expenditures (amount and size)	No Change

#### AY3G: FY2022 Education Endowment Investment Policy

AS 43.23.063(b)(2) directs the commissioner to invest in a manner likely to achieve at least a four percent nominal return over a five-year period.

On July 1 of each year, the "commissioner shall determine the fund balance for the previously closed fiscal year, including the earnings of the fund" and "when the average market value for the fiscal year exceeds \$1,000,000,000, transfer 4.5% of the average fiscal-year-end market value of the balance of the fund for the last five fiscal years, including the fiscal year just ended, and including any unrealized gains and losses."

Investment Topic	Proposed Policy	Current Policy
Investment Objective	High exposure of principal to loss in return for higher expected Longer-term returns. Limited current income requirement. Limited inflation protection needed. Moderate liquidity requirement.	No Change

### **Retiree LTC Insurance - \$755 Million**

#### AY11: FY2022 Retiree LTC Insurance Investment Policy

Effective July 1, 1997, the Department of Administration established the Group Health and Life Insurance Fund and the Retiree Health Insurance Fund. The Retiree Health Insurance Fund is further broken down into three plans: 1) medical, 2) dental, vision and audio, and 3) long term care.

The Retiree Long-Term Care Plan consists of premiums paid for retiree long term care. While many retirees are paying premiums into the plan today, at present only a small percentage of the premiums are needed for claims payments. Per the analysis, Actuarial Valuation of the State of Alaska Long-Term Care Program as of June 2019, conducted by Lewis & Ellis, Inc., the actuarial assumed net investment earnings assumption is 5.0%.

Investment Topic	Proposed Policy	Current Policy	
Investment Objective	To match the fund's assumed actuarial rate of return while minimizing risk	No Change	
Risk Tolerance	High	No Change	
Policy Risk/Loss Range	>10%	No Change	
Time Horizon	Long	No Change	
Asset Allocation	Broad U.S. Equity 33% ± 5%   International Equity 21% ± 5%   U.S. REITs 4% ± 4%   Core U.S. Fixed Income 41% ± 5%   Cash Equivalents 1% - 1%/+2%	27% ± 5% 18% ± 5% 54% ± 5% 1% - 1%/+2%	
Expected Return - Long-Term	5.10%	5.25%	
Risk - Standard Deviation	10.50%		
Probability of Loss - 1 Year 10% Probability of Annual Loss (10% cVaR)	31.8% 13.5%		

The proposed policy is effective July 1, 2021:

lucinda mahonsy Approved

6/25/2021 Date

State of Alaska FY2023 Asset Allocation	Asset Mix Alternatives						
Asset Classes	1	2	3	4	5	Prior Year	5.25% Tgt
Broad U.S. Equity	34.3%	34.7%	35.0%	35.4%	35.8%	33%	35%
Global ex-U.S. Equity	21.1%	21.3%	21.6%	21.7%	21.8%	21%	22%
US REITS	5.0%	5.0%	5.0%	5.0%	5.0%	4%	5%
Core U.S. Fixed Income	38.6%	38.0%	37.5%	36.9%	36.3%	41%	37%
Cash Equivalents	1.0%	1.0%	1.0%	1.0%	1.0%	1%	1%
Total	100%	100%	100%	100%	100%	100%	100%
Optimization Results:							
Expected Return - Long-Term	5.20%	5.22%	5.25%	5.28%	5.30%	5.10%	5.27%
Risk - Standard Deviation	10.85%	10.95%	11.05%	11.15%	11.25%	10.50%	11.14%
Sharpe Ratio	0.37	0.37	0.37	0.37	0.36	0.39	0.37
Risk Statistics:							
10% Probable Annual Loss (10% cVaR)	-13.8%	-14.0%	-14.1%	-14.3%	-14.4%	-13.5%	-14.3%
5% Probable Annual Loss (5% cVaR)	-17.2%	-17.4%	-17.5%	-17.7%	-17.9%	-16.7%	-17.7%
Probability of Loss - 1 Year	31.6%	31.7%	31.7%	31.8%	31.9%	31.8%	31.8%
Prob. Return < -1%	28.4%	28.5%	28.6%	28.7%	28.8%	28.5%	28.7%
Prob. Return < -2%	25.4%	25.5%	25.6%	25.7%	25.8%	25.3%	25.7%
Prob. Return < -3%	22.5%	22.6%	22.8%	22.9%	23.0%	22.4%	22.9%
Prob. Return < -4%	19.8%	20.0%	20.1%	20.3%	20.4%	19.6%	20.3%
Prob. Return < -5%	17.4%	17.5%	17.7%	17.8%	18.0%	17.1%	17.8%
Prob. Return < -10%	8.1%	8.2%	8.4%	8.5%	8.7%	7.7%	8.5%
Prob. Return < -20%	1.0%	1.1%	1.1%	1.2%	1.2%	0.9%	1.2%
Probability of Loss - 10 Year	6.5%	6.6%	6.6%	6.7%	6.8%	6.2%	6.7%
Asset Time Horizon Estimate	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Return Statistics:							
Short-Term Expected Return	5.84%	5.86%	5.88%	5.90%	5.91%	4.97%	5.89%
Long-Term Expected Return	5.20%	5.22%	5.25%	5.28%	5.30%	5.10%	5.27%
Long-Term Real Return	2.95%	2.97%	3.00%	3.03%	3.05%	3.10%	3.02%
Long-Term Yield	2.49%	2.48%	2.48%	2.47%	2.46%	2.46%	2.47%
Capital Gain	2.71%	2.75%	2.78%	2.81%	2.84%	2.64%	2.80%
Arithmetic Return	5.70%	5.73%	5.77%	5.80%	5.84%	5.57%	5.80%
Dollars: (\$Millions)							
Assets	755.0	755.0	755.0	755.0	755.0		755.0
Expected Annual Earnings	39.2	39.4	39.6	39.8	40.0		39.8
10% Probable Annual Loss (10% cVaR)		(105.6)	(106.8)	(107.9)	(109.0)		(107.8)
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### **PCE Endowment - \$1.1 Billion**

#### AY13: FY2022 PCE Endowment Investment Policy

AS 42.45.080(a)(2) directs the commissioner to invest in a manner likely to achieve at least a four percent nominal return over a five-year period.

On July 1 of each year, the commissioner shall determine the monthly average market value of the fund for the previous three fiscal years. Five percent of the amount determined by the commissioner, pending the governor signing legislation, may be appropriated for the fiscal year beginning the following July 1.

Investment Topic	Proposed Policy	Current Policy No Change	
Investment Objective	Returns require relatively high exposure to principal loss in return for higher expected longer-term returns. Limited current income requirement. Limited inflation protection needed.		
Risk Tolerance	High	No Change	
Policy Risk/Loss Range	>10%	No Change	
Time Horizon	Intermediate	No Change	
Asset Allocation	Broad U.S. Equity 32% ± 5%   International Equity 20% ± 5%   U.S. REITs 4% ± 3%   Core U.S. Fixed Income 43% ± 5%   Cash Equivalents 1% - 1%/+2%	24% ±5% 15% ±5% 60% ±5% 1% -1%/+2%	
Expected Return - Long-Term	5.00%	5.00%	
Risk - Standard Deviation	10.12%		
Probability of Loss - 1 Year 10% Probability of Annual Loss (10% cVaR)	31.6% 12.9%		

The proposed policy is effective July 1, 2021:

lucinda mahonsy Approved

6/25/2021 Date

State of Alaska FY2023 Asset Allocation **Asset Mix Alternatives** 2 3 5% Tgt Asset Classes 1 4 5 Prior Year 31.6% 32.1% 32.2% 32.6% 32% 32% Broad U.S. Equity 31.3% 19.4% 19.4% 19.8% 20.0% 20% 20% Global ex-U.S. Equity 19.2% 4.9% 5% US REITS 5.0% 5.0% 5.0% 5.0% 4% Core U.S. Fixed Income 42.5% 42% 43.6% 43.1% 41.9% 41.4% 43% Cash Equivalents 1.0% 1.0% 1.0% 1.0% 1.0% 1% 1% Total 100% 100% 100% 100% 100% 100% 100% **Optimization Results: Expected Return - Long-Term** 4.95% 4.98% 5.01% 5.03% 5.06% 5.00% 5.03% 9.95% 10.05% 10.15% 10.25% 10.35% **Risk - Standard Deviation** 10.12% 10.24% 0.38 0.38 0.37 Sharpe Ratio 0.38 0.37 0.39 0.37 **Risk Statistics:** 10% Probable Annual Loss (10% cVaR) -12.5% -12.7% -12.8% -13.0% -13.1% -12.9% -12.9% 5% Probable Annual Loss (5% cVaR) -15.6% -15.8% -15.9% -16.1% -16.3% -16.0% -16.1% Probability of Loss - 1 Year 30.9% 31.2% 31.6% 31.2% 31.0% 31.1% 31.2% 27.6% Prob. Return < -1% 27.5% 27.7% 27.8% 27.9% 28.1% 27.8% Prob. Return < -2% 24.2% 24.4% 24.5% 24.8% 24.9% 24.6% 24.6% Prob. Return < -3% 21.2% 21.4% 21.5% 21.7% 21.8% 21.9% 21.6% Prob. Return < -4% 18.4% 18.6% 18.9% 18.9% 18.7% 19.1% 19.1% Prob. Return < -5% 15.9% 16.0% 16.2% 16.4% 16.5% 16.5% 16.4% Prob. Return < -10% 6.6% 6.8% 7.0% 7.1% 7.3% 7.1% 7.1% Prob. Return < -20% 0.6% 0.6% 0.7% 0.7% 0.8% 0.7% 0.7% 5.8% 5.9% 6.0% Probability of Loss - 10 Year 5.9% 5.9% 6.0% 6.1% Asset Time Horizon Estimate 5.9 5.9 5.9 5.9 5.9 5.9 5.9 Return Statistics: Short-Term Expected Return 5.68% 5.70% 5.72% 5.74% 5.75% 4.86% 5.74% 5.03% Long-Term Expected Return 4.95% 4.98% 5.01% 5.03% 5.06% 5.00% Long-Term Real Return 2.70% 2.73% 2.76% 2.78% 2.81% 3.00% 2.78% Long-Term Yield 2.53% 2.52% 2.52% 2.51% 2.51% 2.46% 2.52% Capital Gain 2.42% 2.46% 2.49% 2.52% 2.55% 2.53% 2.52% 5.41% 5.44% 5.48% 5.51% 5.43% 5.48% Arithmetic Return 5.37% Dollars: (\$Millions) 1,098.1 1,098.1 1,098.1 1,098.1 1,098.1 1,098.1 Assets 54.4 54.7 55.0 55.3 55.6 55.3 Expected Annual Earnings (137.4) (139.0)(140.6) (142.3) 10% Probable Annual Loss (10% cVaR) (143.9)(142.1)

# **State Asset Allocation Next Steps**

- Once a budget has been passed, further evaluate the CBRF, general fund, GeFONSI and other participants with respect to time horizon and downside risk tolerance.
- Update short-term funds return expectations using current yields and market analysis.
- Finish evaluation of improvements to both fixed income and equities.
- Late June Commissioner considers full set of investment policies and asset allocations for adoption.

Fund - Account	Assets (3/31/22)	Risk Tolerance	Policy 1yr	Loss
	Assets (5/51/22)	KISK TOTEFAILCE	Risk/Loss	Magnitude
Short-Term Funds	\$167,061,791	Low	<1%	0 - 0.4%
CBRF - AY19	\$1,088,035,230	Low	<1%	0 - 0.4%
GeFONSI - AY01	\$1,627,204,325	Moderate	1-5%	0 - 1.5%
International Airport - AY04	\$164,765,449	Moderate	1-5%	0 - 1.5%
GeFONSI II - AY3F	\$1,169,371,837	Moderate-High	5-10%	1.5 - 5%
PCE Endowment - AY13	\$1,098,581,641	5% Return Tgt	>10%	5 - 20%
Retiree LTC - AY11	\$755,299,323	5% Return Tgt	>10%	5 - 20%
Public School Trust Fund - AY08	\$807,396,448	Endowment	>10%	5 - 20%
AK Higher Education - AY3L	\$393,078,025	Endowment	>10%	5 - 20%
Illinois Creek Mine - AY9J	\$1,451,319	Endowment	>10%	5 - 20%
Education Endowment - AY3G	\$808,760	Endowment	>10%	5 - 20%
Total	\$7,273,054,148			

# **Questions?**