

May 9, 2023

Meeting Materials

Municipality of Anchorage Trust Fund

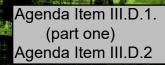


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Quarterly Summary Performance

Municipality of Anchorage Trust Fund

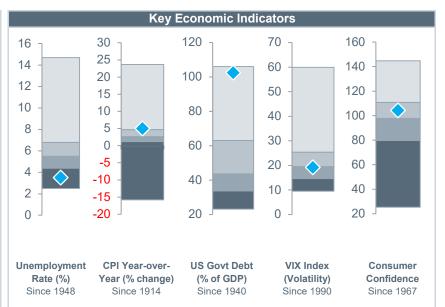
Period Ended: March 31, 2023

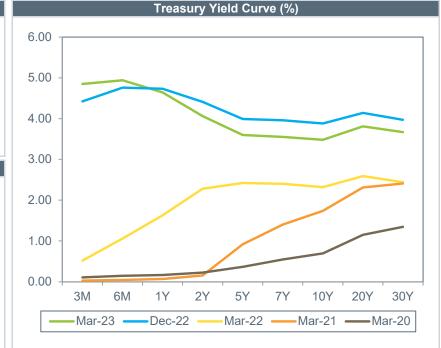
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First Quarter Economic Environment

During Q1, both defensive and risk assets generally provided positive returns, following a difficult environment in 2022 characterized by geopolitical risk and rising interest rates. Although, capital markets continued to experience bouts of volatility. Despite this volatility, broad equity market indexes finished Q1 in positive territory. The broad bond market delivered positive returns in Q1 as market participants changed expectations on future interest rate moves from pricing in rate hikes to discounting rate pauses, or in some circumstances, cuts. Internationally, moderate winter temperatures helped to ease energy price inflation in Europe, but the uncertainty around supply shortages persisted due to the ongoing war in Ukraine. The FOMC decided to increase the federal funds rate in Q1 to a target range between 4.75% - 5.00%, representing a second straight monthly increase of 0.25% after a string of 0.50% to 0.75% increases. The FOMC's actions demonstrated continued focus on combating inflation, although FOMC data indicated that most officials expect only one more rate hike in 2023. The most recent data release indicated that Headline CPI for March came in slightly below average expectations, with estimated year-over-year inflation of 5.00%. Recessionary risks remained a concern, and recent FOMC minutes indicated that members thought it was increasingly likely that the US will enter a recession later in 2023 due to banking sector stresses. The IMF revised its global GDP growth forecast at the end of the quarter to 2.80%, a decline from its January 2023 forecast of 2.90%.

Economic Indicators	Mar-23	Dec-22	Mar-22	Mar-20	20 Yr
Federal Funds Rate (%)	4.83 🔺	4.33	0.33	0.08	1.34
Breakeven Infl 5 Yr (%)	2.47 🔺	2.38	3.43	0.53	1.93
Breakeven Infl 10 Yr (%)	2.33 🔺	2.30	2.83	0.93	2.09
CPI YoY (Headline) (%)	5.0 🔻	6.5	8.5	1.5	2.5
Unemployment Rate (%)	3.5 —	3.5	3.6	4.4	6.0
Real GDP YoY (%)	1.6 🔺	0.9	3.7	0.8	2.0
PMI - Manufacturing	46.3 🔻	48.4	57.1	49.1	53.6
USD Total Wtd Idx	119.48 🔻	121.40	115.35	122.55	103.40
WTI Crude Oil per Barrel (\$)	75.7 🔻	80.3	100.3	20.5	68.4
Gold Spot per Oz (\$)	1,979 🔺	1,824	1,937	1,577	1,179
Market Performance (%)	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	7.50	7.50	-7.73	11.19	12.24
Russell 2000	2.74	2.74	-11.61	4.71	8.04
MSCI EAFE (Net)	8.47	8.47	-1.38	3.52	5.00
MSCI EAFE SC (Net)	4.92	4.92	-9.83	0.87	5.86
MSCI Emg Mkts (Net)	3.96	3.96	-10.70	-0.91	2.00
Bloomberg US Agg Bond	2.96	2.96	-4.78	0.90	1.36
ICE BofAML 3 Mo US T-Bill	1.07	1.07	2.50	1.41	0.87
NCREIF ODCE (Gross)	-3.16	-3.16	-3.07	7.52	9.45
FTSE NAREIT Eq REIT (TR)	2.68	2.68	-19.19	6.02	5.97
HFRI FOF Comp	0.71	0.71	-1.94	3.10	3.24
Bloomberg Cmdty (TR)	-5.36	-5.36	-12.49	5.36	-1.72







Treasury data courtesy of the US Department of the Treasury. Economic data courtesy of Bloomberg Professional Service.

Asset Alloc. by Manager, Asset Alloc. vs. Target & Schedule of Investable Assets

Asset Allocation by Manager Asset Allocation vs. Target Allocation Market Value Allocation Target March 31, 2023 : \$392,894,118 Min Max (\$) (%) (%) (%) (%) **Total Fund** 392,894,118 100.00 100.00 **Domestic Equity** 118,217,005 30.09 31.00 26.00 36.00 International Equity 85,485,135 21.76 22.00 18.00 26.00 Domestic Core/Plus Fixed Income 89,361,012 22.74 24.00 21.00 27.00 **Private Credit** 20.839.282 5.30 5.00 2.00 8.00 EMD 18.436.299 4.69 0.00 8.00 5.00 Real Estate 60.111.082 15.30 13.00 10.00 16.00 **Cash Equivalents** 444.303 0.11 0.00 0.00 15.00 Asset Allocation vs. Target Allocation Differences Market Value Allocation (\$) (%) Domestic Equity -0.91 % Vanguard Instl Indx;InsP (VIIIX) 103.449.556 26.33 -0.24 % International Equity Garcia Hamilton Core Agg (SA) 45,104,530 11.48 Vanguard Intl Val;Inv (VTRIX) 44,279,315 11.27 **Domestic Core/Plus Fixed Income** -1.26 % FIAM Core Plus LLC (CF) 44,256,482 11.26 Private Credit 0.30% American Funds EuPc;F3 (FEUPX) 41,205,820 10.49 Invesco U.S. Income Fund, LP (CF) 27,110,436 6.90 EMD -0.31 % Harrison Street Core Property Fund, LP 22,531,096 5.73 Real Estate 2.30% PIMCO Private Income Fund LLC 20,839,282 5.30 RBC BlueBay EM Debt;I (RBESX) 18,436,299 4.69 **Cash Equivalents** 0.11% UBS Trumbull Property (CF) 10,469,550 2.66 -5.00 % 0.00% 6.00% Vanguard Md-Cp I;Inst (VMCIX) 7,486,068 1.91 BlackRock:Adv SC Cr;Inst (BDSIX) 7,281,381 1.85 Allocation Differences Allspring:Govt MM;I (GVIXX) 444,303 0.11

Schedule of Investable Assets										
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return					
CYTD	381,029,057	-4,787,448	16,652,508	392,894,118	4.38					

Allocations shown may not sum up to 100% exactly due to rounding. Performance shown is net of fees. The market value for PIMCO Private Income Fund LLC is as of 12/31/2022.



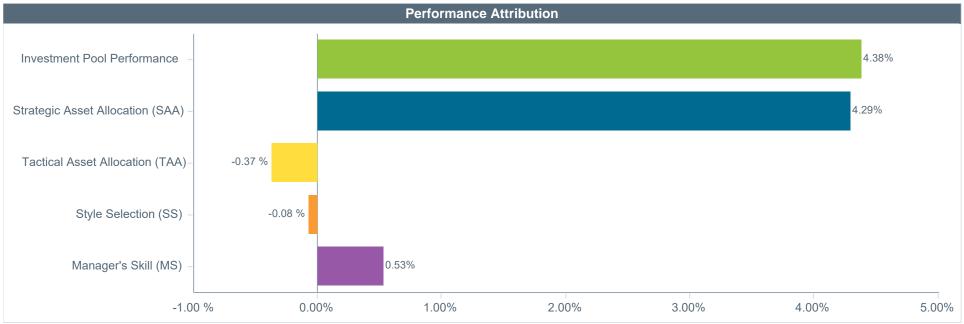
Municipality of Anchorage Trust Fund All Public Plans (<\$500M)

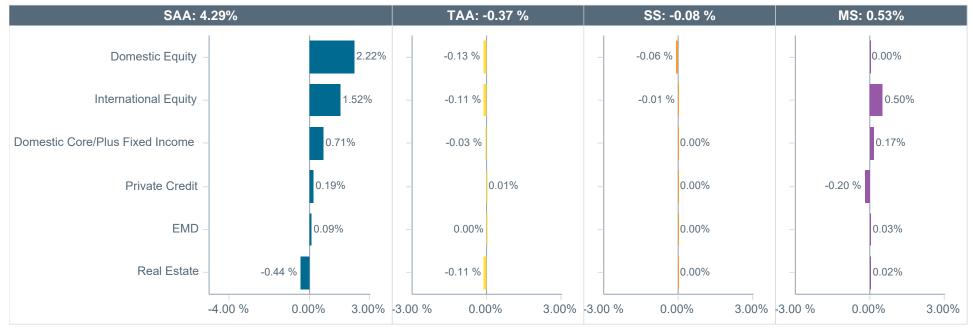


Parentheses contain percentile ranks. Performance shown is gross of fees. Composite performance prior to 01/2016 consists of gross performance for separate accounts and commingled fund investments, and net performance for mutual fund investments. Calculation is based on monthly periodicity.



Municipality of Anchorage Trust Fund Total Fund Attribution - IDP Ex-Cash

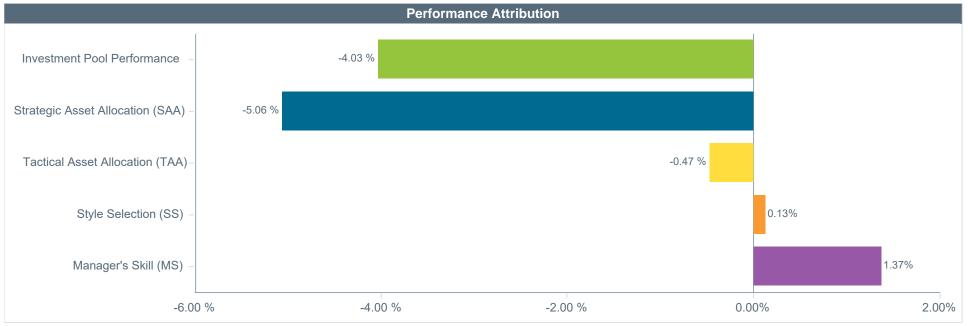


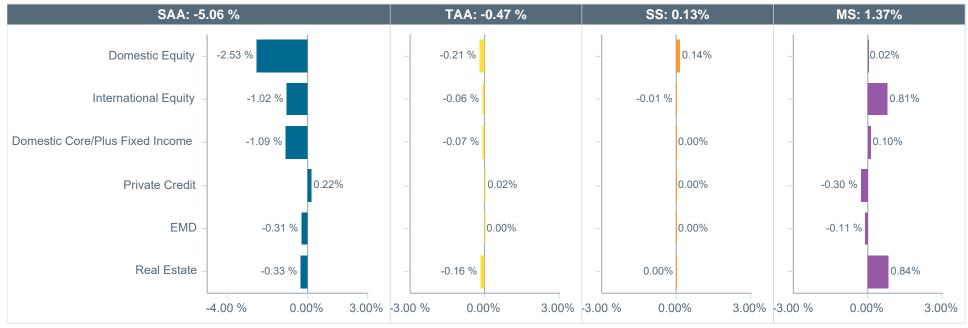


Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.



Municipality of Anchorage Trust Fund Total Fund Attribution - IDP Ex-Cash





Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.

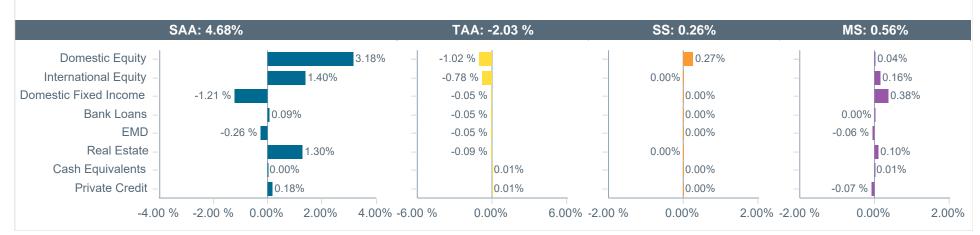


Municipality of Anchorage Trust Fund ML&P Cash Proceeds Impact on Performance

-3.00 %

-2.00 %

				Comp	arative P	erforma	nce							
	MTD	QTD	CYTD	1 Year	Since 10/01/20	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
Total Fund	1.69	4.38	4.38	-4.04	3.47	9.30	4.64	6.41	6.31	-11.94	11.37	8.75	5.55	10/01/1999
Target Allocation Index (Trust)	1.59	4.29	4.29	-5.06	4.68	10.05	5.59	6.96	6.64	-12.41	11.55	12.77	5.49	
Difference	0.10	0.09	0.09	1.02	-1.21	-0.75	-0.95	-0.55	-0.33	0.47	-0.18	-4.02	0.06	
Target Allocation Index (Wtd Cash) (Trust)	1.59	4.29	4.29	-5.06	3.37	8.89	4.92	6.47	-	-12.41	11.55	9.26	-	
Difference	0.10	0.09	0.09	1.02	0.10	0.41	-0.28	-0.06	-	0.47	-0.18	-0.51	-	
Consumer Price Index+4%	0.66	2.70	2.70	9.18	10.35	9.57	8.03	7.58	6.74	10.71	11.32	5.42	6.63	
Difference	1.03	1.68	1.68	-13.22	-6.88	-0.27	-3.39	-1.17	-0.43	-22.65	0.05	3.33	-1.08	
Total Fund Ex-Cash	1.69	4.38	4.38	-4.03	4.80	10.48	5.31	6.91	-	-11.94	11.55	12.11	6.70	01/01/2016
Target Allocation Index (Trust)	1.59	4.29	4.29	-5.06	4.68	10.05	5.59	6.96	6.64	-12.41	11.55	12.77	6.92	
Difference	0.10	0.09	0.09	1.03	0.12	0.43	-0.28	-0.05	-	0.47	0.00	-0.66	-0.22	
			Perform	nance A	ttributior	n - Sinc	e 10/01/2	2020						
Investment Pool Performance –										3.4	7%			
Strategic Asset Allocation (SAA) -												4.(68%	
Tactical Asset Allocation (TAA)-	2.03 %													
Style Selection (SS) -					0.26%)								
Manager's Skill (MS) –					C	.56%								



0.00%

2.00%

4.00%

Performance shown is net of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions. The Target Allocation Index (Weighted Cash) (Trust) consists of a 37% allocation to cash during 11/2020 and a 12% allocation to cash during 12/2020. Remaining allocations were adjusted on a pro rata basis to fill the remaining stated targets.



6.00%

Comparative Performance

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	Since Incep.	Inception Date
Total Fund	4.38	4.38	-4.04	9.30	4.64	6.41	6.31	-11.94	11.37	8.75	18.08	5.55	10/01/1999
Target Allocation Index (Trust)	4.29	4.29	-5.06	10.05	5.59	6.96	6.64	-12.41	11.55	12.77	19.50	5.49	
Difference	0.09	0.09	1.02	-0.75	-0.95	-0.55	-0.33	0.47	-0.18	-4.02	-1.42	0.06	
Consumer Price Index+4%	2.70	2.70	9.18	9.57	8.03	7.58	6.74	10.71	11.32	5.42	6.38	6.63	
Difference	1.68	1.68	-13.22	-0.27	-3.39	-1.17	-0.43	-22.65	0.05	3.33	11.70	-1.08	
Domestic Equity	6.96	6.96	-8.06	18.26	10.44	11.87	11.56	-18.28	27.79	17.14	31.54	7.05	10/01/1999
Russell 3000 Index	7.18	7.18	-8.58	18.48	10.45	11.99	11.73	-19.21	25.66	20.89	31.02	7.33	
Difference	-0.22	-0.22	0.52	-0.22	-0.01	-0.12	-0.17	0.93	2.13	-3.75	0.52	-0.28	
Domestic Large Cap Equity	7.49	7.49	-7.75	18.15	10.95	12.21	12.02	-18.13	28.85	17.02	31.55	7.10	10/01/1999
Russell 1000 Index	7.46	7.46	-8.39	18.55	10.87	12.23	12.01	-19.13	26.45	20.96	31.43	7.29	
Difference	0.03	0.03	0.64	-0.40	0.08	-0.02	0.01	1.00	2.40	-3.94	0.12	-0.19	
Vanguard InstI Indx;InsP (VIIIX)	7.49	7.49	-7.75	18.59	11.17	12.40	12.22	-18.13	28.69	18.40	31.46	7.09	10/01/1999
S&P 500 Index (Cap Wtd)	7.50	7.50	-7.73	18.60	11.19	12.42	12.24	-18.11	28.71	18.40	31.49	7.09	
Difference	-0.01	-0.01	-0.02	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	0.00	-0.03	0.00	
IM U.S. Large Cap Core Equity (MF) Median	6.60	6.60	-7.77	17.55	10.27	11.55	11.28	-18.72	26.95	18.39	30.64	6.64	
Rank	31	31	50	19	23	20	16	46	26	50	37	31	
Domestic Mid Cap Equity	3.87	3.87	-9.86	18.20	7.87	9.74	10.05	-18.71	24.65	16.61	31.09	8.58	07/01/2006
Vanguard Spl Mid Cap Index	3.87	3.87	-9.85	18.75	8.15	9.94	10.21	-18.68	24.52	18.24	31.09	8.68	
Difference	0.00	0.00	-0.01	-0.55	-0.28	-0.20	-0.16	-0.03	0.13	-1.63	0.00	-0.10	
Vanguard Md-Cp I;Inst (VMCIX)	3.87	3.87	-9.86	18.73	8.14	9.92	10.18	-18.70	24.53	18.23	31.03		07/01/2006
Vanguard Spl Mid Cap Index	3.87	3.87	-9.85	18.75	8.15	9.94	10.21	-18.68	24.52	18.24	31.09	8.68	
Difference	0.00	0.00	-0.01	-0.02	-0.01	-0.02	-0.03	-0.02	0.01	-0.01	-0.06	-0.03	
IM U.S. Mid Cap Core Equity (MF) Median	2.31	2.31	-6.60	19.49	6.91	8.51	8.47	-13.21	25.73	8.44	28.59	7.37	
Rank	30	30	83	64	23	17	11	93	60	15	27	13	
Domestic Small Cap Equity	2.86	2.86	-10.50	17.82	6.07	8.73	6.90	-19.87	15.69	17.88	32.15	5.54	01/01/2000
Small Cap Custom Index	2.74	2.74	-11.61	17.51	4.71	7.95	7.93	-20.44	14.82	19.96	25.53	7.29	
Difference	0.12	0.12	1.11	0.31	1.36	0.78	-1.03	0.57	0.87	-2.08	6.62	-1.75	
BlackRock:Adv SC Cr;Inst (BDSIX)	2.86	2.86	-10.50	18.04	6.17	-	-	-19.87	14.67	19.57	32.12	7.24	12/01/2016
Russell 2000 Index	2.74	2.74	-11.61	17.51	4.71	8.55	8.04	-20.44	14.82	19.96	25.53	6.41	
Difference	0.12	0.12	1.11	0.53	1.46	-	-	0.57	-0.15	-0.39	6.59	0.83	
IM U.S. Small Cap Core Equity (MF) Median	2.71	2.71	-8.33	21.16	5.52	8.31	8.01	-15.78	25.12	9.89	23.94	6.37	
Rank	44	44	75	80	35	-	-	82	91	14	3	32	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions. The performance for PIMCO Private Income Fund LLC is not available for Q1 2023 and is assumed to be 0.00%.



Comparative Performance

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	Since Incep.	Inception Date
International Equity	9.24	9.24	-1.03	12.96	2.38	5.74	4.73	-17.25	5.82	15.22	19.36	5.27	10/01/1999
MSCI ACW Ex US Index (USD) (Net)	6.87	6.87	-5.07	11.80	2.47	5.86	4.17	-16.00	7.82	10.65	21.51	4.28	
Difference	2.37	2.37	4.04	1.16	-0.09	-0.12	0.56	-1.25	-2.00	4.57	-2.15	0.99	
Vanguard Intl Val;Inv (VTRIX)	8.65	8.65	1.13	-	-	-	-	-11.66	7.97	-	-		06/01/2020
MSCI ACW Ex US Val Index (USD) (Net)	5.16	5.16	-4.00	13.82	1.26	5.00	3.06	-8.59	10.46	-0.77	15.72	11.45	
Difference	3.49	3.49	5.13	-	-	-	-	-3.07	-2.49	-	-	0.37	
IM ACWI Ex US Value (MF) Median	7.21	7.21	-2.74	14.41	1.58	4.45	3.16	-11.04	10.01	3.69	17.82	11.30	
Rank	28	28	27	-	-	-	-	61	73	-	-	42	
American Funds EuPc;F3 (FEUPX)	9.88	9.88	-3.26	12.14	3.25	7.00	5.94	-22.73	2.85	25.24	27.42	5.91	10/01/1999
MSCI ACW Ex US Grth Index (USD) (Net)	8.59	8.59	-6.35	9.49	3.36	6.47	5.08	-23.05	5.09	22.20	27.34	-	
Difference	1.29	1.29	3.09	2.65	-0.11	0.53	0.86	0.32	-2.24	3.04	0.08	-	
IM ACWI Ex US Growth (MF) Median	9.23	9.23	-4.76	10.95	3.17	6.38	5.23	-26.63	7.93	22.75	27.84	5.11	
Rank	33	33	27	24	47	35	30	30	77	36	59	16	
Domestic Fixed Income	2.97	2.97	-3.89	0.21	1.57	2.23	2.13	-10.23	-0.07	6.90	8.75	4.62	10/01/1999
Bloomberg US Agg Bond Index	2.96	2.96	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	8.72	4.02	
Difference	0.01	0.01	0.89	2.98	0.67	1.35	0.77	2.78	1.48	-0.61	0.03	0.60	
Domestic Core/Plus Fixed Income	3.67	3.67	-4.32	-0.74	1.34	1.97	-	-12.15	-0.87	7.80	8.89	2.33	01/01/2016
Bloomberg US Agg Bond Index	2.96	2.96	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	8.72	1.27	
Difference	0.71	0.71	0.46	2.03	0.44	1.09	-	0.86	0.68	0.29	0.17	1.06	
FIAM Core Plus LLC (CF)	3.49	3.49	-4.73	0.22	1.69	2.17	2.25	-12.63	0.68	7.52	10.49	4.00	10/01/2007
Bloomberg US Agg Bond Index	2.96	2.96	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	8.72	2.96	
Difference	0.53	0.53	0.05	2.99	0.79	1.29	0.89	0.38	2.23	0.01	1.77	1.04	
IM U.S. Broad Market Core+ Fixed Income (MF) Median	3.23	3.23	-5.51	-1.07	1.07	1.32	1.48	-13.72	-0.94	8.58	9.33	3.30	
Rank	23	23	23	12	20	17	11	19	8	73	22	11	
Garcia Hamilton Core Agg (SA)	3.96	3.96	-3.80	-1.56	1.09	-	-	-11.66	-2.40	8.34	7.31	1.09	02/01/2018
Bloomberg US Agg Bond Index	2.96	2.96	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	8.72	0.81	
Difference	1.00	1.00	0.98	1.21	0.19	-	-	1.35	-0.85	0.83	-1.41	0.28	
IM U.S. Broad Market Core Fixed Income (MF) Median	3.14	3.14	-5.31	-1.85	0.85	0.99	1.32	-13.67	-1.33	8.15	8.76	0.72	
Rank	1	1	7	39	28	-	-	8	95	44	88	22	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions. The performance for PIMCO Private Income Fund LLC is not available for Q1 2023 and is assumed to be 0.00%.



As of March 31, 2023

Comparative Performance

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	Since Incep.	Inception Date
Private Credit	0.00	0.00	-1.75				-	-0.55	-			2.29	06/01/2021
CS Lvg'd Loan Index+2%	3.62	3.62	4.17	10.55	5.62	6.66	5.93	0.92	7.51	4.83	10.34	4.39	
Difference	-3.62	-3.62	-5.92	-	-	-	-	-1.47	-	-	-	-2.10	
PIMCO Private Income Fund LLC	0.00	0.00	-1.75	-	-	-	-	-0.55	-	-	-	2.29	06/01/2021
CS Lvg'd Loan Index+2%	3.62	3.62	4.17	10.55	5.62	6.66	5.93	0.92	7.51	4.83	10.34	4.39	
Difference	-3.62	-3.62	-5.92	-	-	-	-	-1.47	-	-	-	-2.10	
Emerging Markets Debt	2.45	2.45	-8.54	0.41		-	-	-17.73	-6.44	4.04	12.57	-1.44	07/01/2018
EMD Blended Index	1.86	1.86	-6.37	-0.17	-	-	-	-16.36	-2.83	4.56	13.59	-0.18	
Difference	0.59	0.59	-2.17	0.58	-	-	-	-1.37	-3.61	-0.52	-1.02	-1.26	
RBC BlueBay EM Debt;I (RBESX)	2.45	2.45	-8.32	2.63	-	-	-	-15.27	-2.76	7.01	15.38	1.08	07/01/2018
JPM Emg Mkts Bond Gbl Dvf'd Index (TR)	1.86	1.86	-6.92	-0.02	-0.60	1.40	2.01	-17.78	-1.80	5.26	15.04	0.13	
Difference	0.59	0.59	-1.40	2.65	-	-	-	2.51	-0.96	1.75	0.34	0.95	
IM Emerging Markets Debt (MF) Median	1.76	1.76	-6.07	1.43	-0.74	1.62	0.73	-15.10	-2.97	5.74	13.63	0.34	
Rank	29	29	86	28	-	-	-	52	47	29	16	32	
Real Estate	-3.19	-3.19	1.34	6.12	3.94	4.39	6.22	10.21	17.92	-4.78	-2.92	4.17	10/01/2007
NCREIF ODCE Index (AWA) (Net)	-3.33	-3.33	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34	4.39	5.00	
Difference	0.14	0.14	5.20	-1.35	-2.63	-2.37	-2.26	3.66	-3.10	-5.12	-7.31	-0.83	
UBS Trumbull Property (CF)	-7.25	-7.25	-9.11	2.24	1.64	2.74	5.05	5.02	15.48	-4.78	-2.92	3.42	10/01/2007
NCREIF ODCE Index (AWA) (Net)	-3.33	-3.33	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34	4.39	5.00	
Difference	-3.92	-3.92	-5.25	-5.23	-4.93	-4.02	-3.43	-1.53	-5.54	-5.12	-7.31	-1.58	
Invesco U.S. Income Fund, LP (CF)	-3.70	-3.70	1.54	-	-	-	-	12.61	25.00	-	-	14.48	01/01/2021
NCREIF ODCE Index (AWA) (Net)	-3.33	-3.33	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34	4.39	10.29	
Difference	-0.37	-0.37	5.40	-	-	-	-	6.06	3.98	-	-	4.19	
Harrison Street Core Property Fund, LP	-0.54	-0.54	6.91	-	-	-	-	10.15	-	-	-	8.90	04/01/2021
NCREIF ODCE Index (AWA) (Net)	-3.33	-3.33	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34	4.39	10.61	
Difference	2.79	2.79	10.77	-	-	-	-	3.60	-	-	-	-1.71	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions. The performance for PIMCO Private Income Fund LLC is not available for Q1 2023 and is assumed to be 0.00%.



As of March 31, 2023

	Fee Schedule	Market Value As of 03/31/2023 (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Total Fund		392,894,118	1,719,202	0.44
Vanguard Instl Indx;InsP (VIIIX)	0.02 % of Assets	103,449,556	20,690	0.02
Vanguard Md-Cp I;Inst (VMCIX)	0.04 % of Assets	7,486,068	2,994	0.04
BlackRock:Adv SC Cr;Inst (BDSIX)	0.50 % of Assets	7,281,381	36,407	0.50
/anguard Intl Val;Inv (VTRIX)	0.38 % of Assets	44,279,315	168,261	0.38
American Funds EuPc;F3 (FEUPX)	0.46 % of Assets	41,205,820	189,547	0.46
FIAM Core Plus LLC (CF)	0.25 % of First \$50 M 0.22 % of Next \$50 M 0.20 % of Next \$100 M 0.17 % Thereafter	44,256,482	110,641	0.25
Garcia Hamilton Core Agg (SA)	0.25 % of Assets	45,104,530	112,761	0.25
PIMCO Private Income Fund LLC	1.25 % of Assets	20,839,282	260,491	1.25
RBC BlueBay EM Debt;I (RBESX)	0.79 % of Assets	18,436,299	145,647	0.79
JBS Trumbull Property (CF)	0.83 % of Assets	10,469,550	86,441	0.83
Harrison Street Core Property Fund, LP	1.15 % of First \$25 M 1.05 % of Next \$25 M 0.95 % of Next \$25 M 0.90 % of Next \$25 M 0.85 % Thereafter	22,531,096	259,108	1.15
Invesco U.S. Income Fund, LP (CF)	1.20 % of First \$50 M 1.10 % of Next \$50 M 1.00 % of Next \$100 M 0.85 % of Next \$300 M 0.80 % Thereafter	27,110,436	325,325	1.20
Allspring:Govt MM;I (GVIXX)	0.20 % of Assets	444,303	889	0.20

Mutual fund fees are sourced from Morningstar and/or the investment manager.

UBS Trumbull Property (CF) - 0.955% on first \$10M, 0.825% on next \$15M, 0.805% on next \$25M, 0.79% on next \$50M, 0.67% on next \$150M, 0.60% on

next \$150M, 0.56% on next \$200M and 0.52% thereafter. An incentive fee, up to 0.25%, is calculated quarterly based on trailing 12-month performance. The incentive fee has been suspended from 04/2018 until 03/2024.

*The fee schedule shown for UBS Trumbull Property (CF) is based on the effective rates as of the most recently available quarter end data for the combined assets of Anchorage Police & Fire Retirement System and Municipality of Anchorage, and includes incentive fees.



Municipality of Anchorage Trust Fund Addendum

Performance Related Comments

- Performance shown is net of fees, unless otherwise noted.
- Inception dates shown reflect the first full month of client specific performance.
- RVK began monitoring the assets of the Municipality of Anchorage as of 01/01/2016. Prior historical data was provided by the previous investment consultant.
- Performance for Vanguard InstI Indx;InsP (VIIIX) prior to 11/2020 consists of the returns from the previous share class Vanguard InstI Indx;Inst (VINIX).
- Performance for Vanguard Md-Cp I;Inst (VMCIX) prior to 11/2020 consists of the returns from the previous share class Vanguard Md-Cp I;Adm (VIMAX).
- The market value and performance for PIMCO Private Income Fund Onshore Feeder LLC is as of 12/31/2022.

Manager Transition Comments

- The cash account was transitioned to WellsFargo:Govt MM;I (GVIXX) during 09/2019.
- During 12/2019, RBC BlueBay EM Debt;I (RBESX) switched to the JPM Emg Mkts Bond GbI Dvf'd Index (TR) benchmark.
- TIF:Internatl Equity;Prm (TFEQX) was liquidated beginning in 05/2020 and Vanguard Intl Val;Inv (VTRIX) was funded by the proceeds.
- During 11/2020, assets invested in Vanguard Instl Indx;Inst (VINIX) were transferred via share class exchange to Vanguard Instl Indx;InsP (VIIIX).
- During 11/2020, assets invested in Vanguard Md-Cp I;Adm (VIMAX) were transferred via share class exchange to Vanguard Md-Cp I;Inst (VMCIX).
- During 01/2021, the Invesco U.S. Income Fund, LP (CF) was funded via capital call.
- During 04/2021, Harrison Street Core Property Fund, LP was funded via capital call.
- During 05/2021, PIMCO Private Income Fund Onshore Feeder LLC was funded via capital call.
- During 06/2021, Western Asset Floating Rate High Income (CF) was liquidated from the total fund.
- During 05/2022, Ashmore: EM Tot Rtn; Inst (EMKIX) was liquidated and proceeds were used to purchase RBC BlueBay EM Debt; I (RBESX).

Custom Index Comments

- The Target Allocation Index is calculated monthly and consists of 31% Russell 3000 Index, 22% MSCI ACW Ex US Index (USD) (Net), 24% Bloomberg US Agg Bond Index, 5% Credit Suisse Leveraged Loan Index +2%, 5% EMD Blended Index, and 13% NCREIF ODCE Index (AWA) (Net). The Target Allocation Index and its current targets are effective as of 06/2021.
- The Target Allocation Index (Weighted Cash) (Trust) consists of a 37% allocation to cash during 11/2020 and a 12% allocation to cash during 12/2020. Remaining allocations were adjusted on a pro rata basis to fill the remaining stated targets.
- The Vanguard Spl Mid Cap Index consists of the S&P Mid Cap 400 Index (Cap Wtd) through 05/16/2003; MSCI US Mid Cap 450 Index through 01/30/2013; and CRSP US Mid Cap Index thereafter.
- The Small Cap Custom Index consists of the Russell 2000 Index through 06/2006, the Russell 2000 Growth Index through 11/2016, and the Russell 2000 Index thereafter.
- The EMD Blended Index is calculated monthly using beginning of month investment weights applied to each corresponding primary benchmark return.

Miscellaneous Comments

• In 12/2021, due to the sale of Wells Fargo Asset Management (WFAM) by Wells Fargo & Company to GTCR LLC and Reverence Capital Partners, L.P., the WellsFargo:Govt MM;I (GVIXX) name has been changed to reflect the new company name of Allspring:Govt MM;I (GVIXX).



KVK

May 9, 2023 **Asset Allocation Review** *Municipality of Anchorage Trust Fund*

Asset Allocation Review & History

- RVK presents an asset allocation review to the IAC every year or two, to explore potential adjustments to be made the MOA Trust Fund asset allocation targets, or confirm the current targets remain prudent.
- RVK produces Capital Market Assumptions (CMAs) every year, with long-term (10-20 years) risk, return and correlation expectations. These assumptions provide context around general expectations on risk and return and assist clients making asset allocation decisions.
- RVK most recently presented an asset allocation review in May 2022. Prior reviews have resulted in additional asset classes being added to the Trust in an attempt to improve risk and return tradeoffs moving forward.
 - Emerging Market Debt added as a diversifying asset class in 2018
 - Additional Real Estate managers added to diversify real estate exposure in 2021
 - Private Credit added as a diversifying asset class in 2021



Asset Allocation Study

Asset Allocation Study 2023 RVK Capital Markets Assumptions

Return & Risk Assumptions

Asset Class	Arithmetic Return Assumption	Standard Deviation Assumption
Broad US Equity	6.80	16.10
Broad International Equity	9.35	18.70
US Agg Fixed Income	4.00	5.00
Emerging Markets Debt (Hard)	7.50	10.00
Private Credit	8.00	13.00
Core Real Estate	5.75	12.50

Correlation Matrix

	Broad US Equity	Broad International Equity	US Agg Fixed Income	Emerging Markets Debt (Hard)	Private Credit	Core Real Estate
Broad US Equity	1.00	0.85	0.21	0.58	0.70	0.29
Broad International Equity	0.85	1.00	0.12	0.68	0.80	0.32
US Agg Fixed Income	0.21	0.12	1.00	0.57	-0.18	-0.01
Emerging Markets Debt (Hard)	0.58	0.68	0.57	1.00	0.58	0.24
Private Credit	0.70	0.80	-0.18	0.58	1.00	0.39
Core Real Estate	0.29	0.32	-0.01	0.24	0.39	1.00



Asset Allocation Study Efficient Frontier Table

Efficient Allocations

The table below shows the range of possible optimal allocations given the selected asset classes and constraints listed under "Min" and "Max." This range illustrates the tradeoff between return and risk; additional return can only be achieved by undertaking additional risk.

	Min	Max	1	2	3	4	5	6	7	8	9	10	Current Target	Potential 1	Potential 2
Broad US Equity	20	50	20	20	20	20	21	23	26	28	31	35	31	31	31
Broad International Equity	20	50	20	20	20	20	21	23	26	28	31	35	22	22	22
US Agg Fixed Income	15	60	60	50	45	40	33	28	23	19	15	15	24	29	27
Emerging Markets Debt	0	5	0	1	5	5	5	5	5	5	5	5	5	0	0
Private Credit	0	7	0	0	1	6	7	7	7	7	7	7	5	5	7
Core Real Estate	0	15	0	9	9	9	13	13	13	13	11	3	13	13	13
Total			100	100	100	100	100	100	100	100	100	100	100	100	100
Capital Appreciation			40	41	46	51	54	59	64	68	74	82	63	58	60
Capital Preservation			60	50	45	40	33	28	23	19	15	15	24	29	27
Alpha			0	0	0	0	0	0	0	0	0	0	0	0	0
Inflation			0	9	9	9	13	13	13	13	11	3	13	13	13
Expected Arithmetic Retur	n		5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	6.7	6.5	6.6
Risk (Standard Deviation)			7.8	8.0	8.3	8.7	9.2	9.9	10.6	11.3	12.1	13.1	10.5	10.2	10.4
Expected Compound Retu	rn		5.3	5.5	5.7	5.9	6.0	6.1	6.3	6.4	6.5	6.6	6.1	6.0	6.1
Return/Risk Ratio			0.72	0.73	0.72	0.72	0.70	0.67	0.64	0.62	0.59	0.56	0.63	0.63	0.63
RVK Expected Eq Beta (LC	US Eq =	: 1)	0.44	0.45	0.47	0.49	0.52	0.56	0.61	0.65	0.70	0.77	0.61	0.60	0.61
RVK Liquidity Metric (T-Bills	= 100)		88	82	80	76	73	73	74	74	76	81	76	77	76

	Prior Years' Expected Trust Returns*											
	2019 2020 2021 2022 2023											
Return	6.5%	6.5%	5.5%	5.7%	6.7%							
Risk	11.4%	10.0%	10.3%	10.3%	10.5%							

* Assuming current Trust targets.



Group Constraint: International Equity capped at 40% of total equity. Total equity capped at 70%.

Basket Clause: Real estate allocation above the 10% cap (3%) and private credit allocation capped at a combined 10%. Page 19

Asset Allocation Study Alternative Portfolio Considerations

	Min	Мах	Current Target	Potential 1	Potential 2
Broad US Equity	20	50	31	31	31
Broad International Equity	20	50	22	22	22
US Agg Fixed Income	15	60	24	29 宜	271
Emerging Markets Debt	0	5	5	0 🦊	0 🦊
Private Credit	0	7	5	5	7 🚹
Core Real Estate	0	15	13	13	13
Total			100	100	100
Capital Appreciation			63	58	60
Capital Preservation			24	29	27
Alpha			0	0	0
Inflation			13	13	13
Expected Arithmetic Return	า		6.7	6.5	6.6
Risk (Standard Deviation)			10.5	10.2	10.4
Expected Compound Return	'n		6.1	6.0	6.1
Return/Risk Ratio			0.63	0.63	0.63
RVK Expected Eq Beta (LC L	IS Eq	1)	0.61	0.60	0.61
RVK Liquidity Metric (T-Bills =		.)	76	77	76

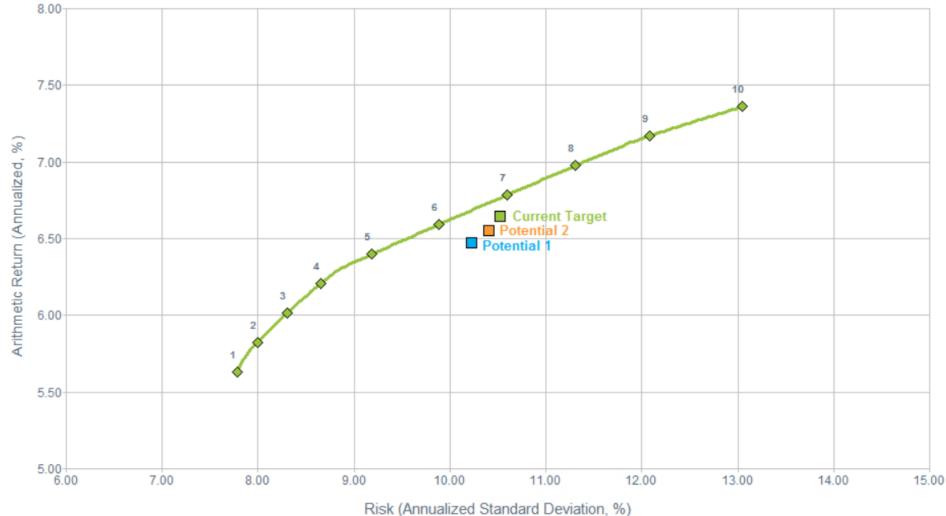
- Exploring removal of EMD
 - With an expected return of 7.5% long-term, likely results in slightly lower expected return for Trust
- Adding to Core Fixed Income given the rise in interest rates and the expectations for higher yields into the future
 - CMA up to 4% from 2.5% in 2022
- Explore adding to Private Credit
 - Basket Clause considerations
- Potential 1 slightly lower return but with lower risk as well. Still well above or in line with previous years' return expectations
- Potential 2 In between current target and Potential 1 with risk and return



Asset Allocation Study Efficient Frontier Graph

Efficient Frontier

The figure below illustrates the relationship between risk and return. The risk of each alternative allocation is plotted against the horizontal axis, while the return is measured on the vertical axis. The line connecting the points represents all the optimal portfolios subject to the given constraints and is known as the "efficient frontier." The upward slope of the efficient frontier indicates the direct relationship between return and risk.





Asset Allocation Study Monte Carlo Simulations – Nominal Return Distribution

The table below shows the expected return by percentile for each portfolio on Frontier 1 for the 1, 3, 5, and 10 year periods.

1 Year	Current Target	Potential 1	Potential 2	
1st Percentile	-21.61	-21.65	-21.73	
5th Percentile	-9.59	-9.88	-9.79	
25th Percentile	0.42	0.28	0.32	
50th Percentile	6.57	6.38	6.46	
75th Percentile	12.94	12.73	12.80	
95th Percentile	22.52 22.52		22.62	
99th Percentile	30.19	30.18	30.24	
3 Years				
1st Percentile	-9.77	-10.17	-10.03	
5th Percentile	-3.58	-3.77	-3.71	
25th Percentile	2.57	2.39	2.47	
50th Percentile	6.43	6.26	6.34	
75th Percentile	10.09	9.91	9.99	
95th Percentile	15.70	15.61	15.68	
99th Percentile	19.98	19.77	19.90	
5 Years				
1st Percentile	-6.27	-6.44	-6.38	
5th Percentile	-1.69	-1.88	-1.81	
25th Percentile	3.33	3.13	3.19	
50th Percentile	6.30	6.12	6.21	
75th Percentile	9.31	9.13	9.24	
95th Percentile	13.63	13.49	13.56	
99th Percentile	16.79	16.58	16.70	
10 Years				
1st Percentile	-2.42	-2.70	-2.60	
5th Percentile	0.58	0.36	0.43	
25th Percentile	4.09	3.90	3.99	
50th Percentile	6.30	6.12	6.20	
75th Percentile	8.45	8.29	8.37	
95th Percentile	11.47	11.30	11.37	
99th Percentile	13.72	13.55	13.62	



Asset Allocation Study Monte Carlo Simulations – Return Targets

The table below shows the **percentage** chance of achieving or exceeding the given return for each portfolio on Frontier 1 for the 1, 3, 5, and 10 year periods.

	Current	Potential	Potential	
1 Year	Target	1	2	
Target 0%	77	76	76	
Target 3%	65	64	65	
Target 6%	52	52	52	
Target 6.5%	50	49	50	
Target 7%	48	47	48	
Target 10%	35	35	35	
3 Years				
Target 0%	87	86	87	
Target 3%	72	71	72	
Target 6%	53	52	52	
Target 6.5%	50	48	49	
Target 7%	46	45	45	
Target 10%	26	24	25	
5 Years				
Target 0%	91	91	91	
Target 3%	77	76	76	
Target 6%	53	51	52	
Target 6.5%	48	47	47	
Target 7%	44	43	43	
Target 10%	21	20	20	
10 Years				
Target 0%	96	96	96	
Target 3%	84	83	83	
Target 6%	53	51	52	
Target 6.5%	48	45	46	
Target 7%	41	39	40	
Target 10%	12	11	11	

Please see the Monte Carlo introduction for more information about assumed distribution.

Asset Allocation Review EMD Considerations

There are a number of factors for staff and the MOA Trust IAC to consider when evaluating whether to continue investing with EMD:

- While absolute returns have been disappointing, RVK believes EMD is still an appropriate asset class for consideration when constructing a diversified portfolio. Over the last ten years EMD has struggled due to geopolitical uncertainty, a strong US Dollar, elevated commodity prices, and recently high inflation; while many of these risks remain, the associated yield with the asset class does provide a commensurate/attractive return profile.
 - EMD posted a 2.0% annualized return over the last 10-years (as of 3/31/2023) as represented by the JPM Emg Mkts Bond Gbl Dvl'd Index.
- Exiting EMD at current valuations does pose a risk of selling at the bottom, but should be weighed in the context of other available options. Moving the 5% allocation to a combination of Core Fixed Income and Private Credit creates a similar expected return, but slightly reduces overall diversification and sources of future returns.
- EMD has been and likely will continue to be volatile, and subject to exogenous shocks, risk-off environments, currency fluctuations, geopolitical risks, etc.
- EMD was added in 2018 as a diversifying asset class for the Trust. With the addition of the private credit asset class and additional real estate managers since then, EMD may not be as essential to diversify the Trust's equity and core fixed income exposures as it was originally.



Appendix

Asset Allocation Research Long Term Performance

- Strategic asset allocation is the most powerful determinant of total fund performance in the long run.
- While good manager evaluation decisions will unquestionably add to performance, they cannot make up for a poorly diversified and/or inefficient allocation.
- Multiple studies calculated the effects of asset allocation on portfolio returns and concluded that asset allocation "drives" portfolio return.

Asset Allocation Explains:

100% of Return Amount Over Time

• Study found that funds making timing and selection bets against their long-term policy mix were unsuccessful in adding significant value by engaging in timing and/or manager selection.

90% of Return Variability Over Time

• Study concluded that roughly 90% of the movement of a fund's total return was explained by target policy fluctuation.



Asset Allocation Process Mean Variance Optimization – Background

Using inputs of expected return, volatility, and correlation, MVO enables investors to identify combinations of distinct asset class allocations that maximize portfolio returns for a given level of risk. Attempts to shift focus from individual manager selection to long-term and strategic asset allocation decisions.

MVO Benefits

- Introduces the critical concept of diversification, which encourages investors to avoid concentrating risk in a small subset of assets or asset classes, especially closely related (highly-correlated) ones.
- Focuses portfolio management activities on asset allocation, which is the most important driver of overall portfolio risk and return.
- Provides a powerful quantitative tool to identify distinct asset allocation targets that have the most optimal risk/return tradeoffs.

MVO Shortcomings

- Simplified assumption of risk/return trade-off fails to capture fully how real world investors weight gains versus losses (i.e., do losses matter more than gains?)
- Volatility is viewed as the only proxy for risk.
- Correlation is treated as static rather than dynamic.
- Models are sometimes highly sensitive to small changes to input values ("robustness").
- Unconstrained output yields highly concentrated portfolios rather than the expected diversification.



Asset Allocation Process Summary

- Asset allocation "drives" portfolio return; academic studies suggest that upwards of 90% of long-term results can be attributed to strategic asset allocation decisions.
- Institutional decision makers should devote more effort setting an appropriate strategic asset allocation than to manager evaluation.
- Asset allocation decision making is an exercise in uncertainty as it involves making judgments about magnitude and patterns of future returns and risk.
- The basic framework of Mean Variance Optimization (MVO), combined with appropriate forward-looking capital markets research, provides a structured approach to assisting with asset allocation decisions.



Emerging Markets Debt

Spectrum of Fixed Income Investments

			Return Potential	Primary Risk Factors
<u>Core</u>	σ	US Government		Rates, Pre-Payment, Corporate Credit
	Liquid	Mortgage-Backed Securities (MBS)	Long-Term Income & Appreciation Income	
		Investment Grade Credit		
	L			
Non- Core		High Yield / Bank Loans		Corporate Credit, Consumer Credit, Sovereign Credit, Currency
	Liquid	Structured Credit	Greater Yield &	
	less	Emerging Market Debt	Appreciation Potential	
	Ľ	Long/Short Credit		
	lliquid	Direct Lending	Strongest Long-Term	Credit and Liquidity
	e i i	Distressed Debt	Growth Potential	Credit and Liquidity



Emerging Markets Debt

Fixed income debt issued by countries with developing economies as well as by corporations within those nations

By Region

- Latin/Central America, Caribbean
- Eastern Europe
- Middle East
- Africa
- EM Asia

Two ways of accessing this market: Dollar-Denominated vs. Local Currency

- <u>Dollar-Denominated Debt</u>: also known as "hard" currency, are bonds issued in U.S. dollar terms by the world's developing countries
- Local Currency Debt: bonds that are denominated in local currencies these debt securities have currency impact as a potential driver of return in addition to other factors in Hard currency EMD



Emerging Market Fixed Income Universe

A wide opportunity set of 30+ local debt markets combined with sovereign and corporate dollar issuers in over 70 countries





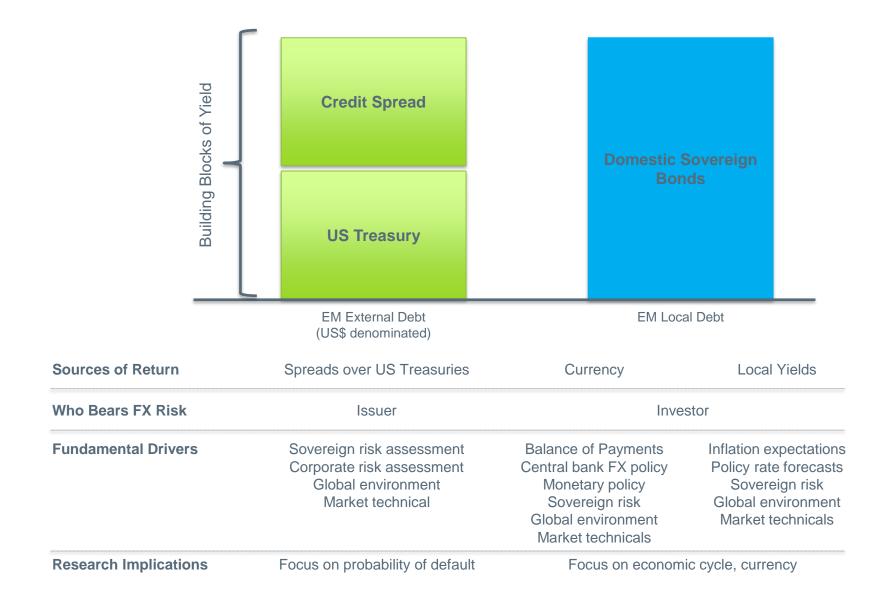
Source: JPM EM Monitor

Not all Emerging Markets are Created Equal

Broader Investment Opportunity Set in Emerging Market Debt

	Currency Markets 4 Countries)	Local Currency Markets (18 Countries)	Equity Markets (25 Countries)	
BelizeLebanonSurinaBoliviaLithuaniaTajikisCameroonMozambiqueTrinidCosta RicaNamibiaTunisiCroatiaPakistanUruguEcuadorPapua New GuineaUzbel	vakia Bahrain Lanka Belarus iname Brazil kistan Chile nidad & Tobago China nisia Colombia guay Dominican Republic pekistan Egypt nezuela El Salvador	Latvia Malaysia Mexico Mongolia Morocco Nigeria Oman	Argentina Brazil Chile Colombia Dominican Republic Hungary Indonesia Malaysia Mexico Peru Philippines Poland Romania Russia South Africa Thailand Turkey Uruguay +15 off-benchmark countries	Brazil Chile China Colombia Czech Republic Egypt Greece Hungary India Indonesia Korea Malaysia Mexico Pakistan Peru Philippines Poland Russia Qatar Saudi Arabia South Africa Taiwan Thailand Turkey United Arab Emirates

Emerging Market Debt – Assessing the Risk





Represents an investable universe of over US\$4.5 trillion in bonds

JPM Emerging Markets Bond Index (EMBI) Global ("Hard Sovereign") – tracks total returns for US dollardenominated debt instruments issued by Emerging Market sovereign and quasi-sovereign entities.

JPM Corporate Emerging Markets Bond Index (CEMBI) Broad ("Corporate") – tracks total returns for USdenominated corporate bonds issued by Emerging Market entities.

JPM Government Bond Index-Emerging Markets (GBI-EM) Global ("Local") – track local currency bonds issued by Emerging Market governments, limiting inclusion to only those countries that are readily accessible and where no impediments exist for foreign investors.



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