

Astoria's Investment Committee Quarterly Review:

Increasing the Cyclicality of our Portfolios

All of Astoria's Risk Based Cross Asset Portfolios have outperformed their Benchmarks Year to Date*

- Year to date performance (as of June 30, 2020)
 - Year to date, the range of performance of APA's model portfolios is -1.37% (Dynamic Aggressive) to **3.59%** (Risk Managed Dynamic Income).
 - **All the model portfolios** have **outperformed** their benchmarks **YTD**. The outperformance ranges from a high of **338bps** (Multi-Asset Risk Strategy and Dynamic Conservative) to a low of **225bps** (Risk Managed Dynamic Income).

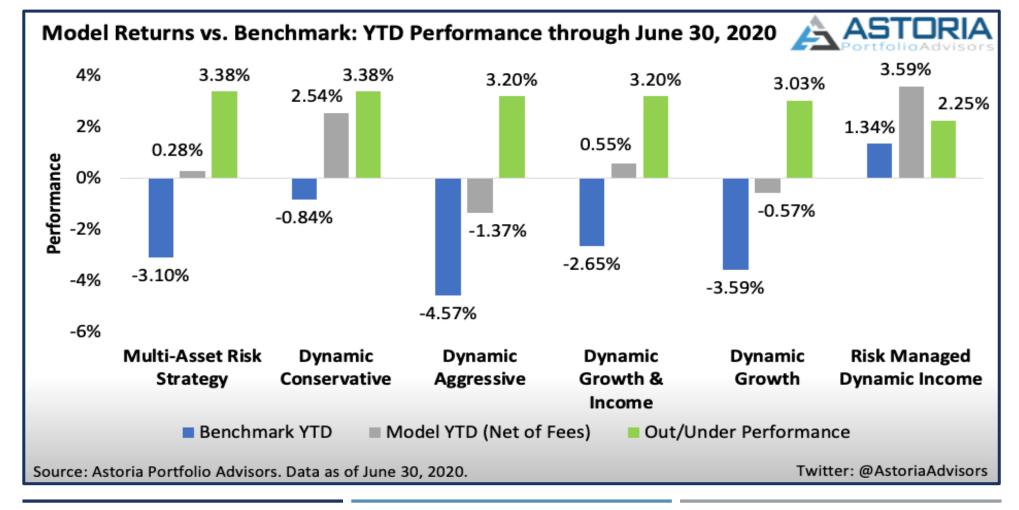
Since inception

- Since inception, all the model portfolios have outperformed their benchmarks on a return basis.
- The absolute outperformance ranges from a high of **185bps** (Dynamic Growth & Income) to a low of **78bps** (Risk Managed Dynamic Income).
- Since inception, all the model portfolios have outperformed their benchmarks on a Sharpe Ratio basis. Refer to our appendix for details on our returns since inception.





YTD Model Portfolio Returns versus Benchmark*







YTD, I-Year, and Since Inception Risk / Net Return Summary*

Risk/Net Return Summary							
			Since Inception	1			Since Inception
Model	YTD	1-Year	(June 2017)	Benchmarks	YTD	1-Year	(June 2017)
Dynamic Aggressive	-1.37%	5.01%	6.05%	Aggressive	-4.57%	1.80%	4.97%
Sharpe Ratio	-	0.29	0.39	Sharpe Ratio	-	0.09	0.30
Standard Deviation	-	14.94%	11.84%	Standard Deviation	-	16.76%	12.32%
Dynamic Growth	-0.57%	6.22%	6.19%	Growth	-3.59%	2.10%	4.78%
Sharpe Ratio	-	0.40	0.45	Sharpe Ratio	-	0.11	0.30
Standard Deviation	-	13.13%	10.20%	Standard Deviation	-	14.85%	10.87%
Dynamic Growth & Income	0.55%	7.16%	6.41%	Growth & Income	-2.65%	2.35%	4.56%
Sharpe Ratio	-	0.53	0.53	Sharpe Ratio	-	0.12	0.31
Standard Deviation	-	11.32%	8.86%	Standard Deviation	-	12.95%	9.45%
Dynamic Conservative	2.54%	6.59%	5.52%	Conservative	-0.84%	2.73%	4.04%
Sharpe Ratio	-	0.68	0.60	Sharpe Ratio	-	0.17	0.33
Standard Deviation	-	7.48%	6.02%	Standard Deviation	-	9.26%	6.74%
Risk Managed Dynamic Income	3.59%	7.45%	4.77%	Income	1.34%	3.76%	3.99%
Sharpe Ratio	-	1.13	0.74	Sharpe Ratio	-	0.38	0.44
Standard Deviation	-	5.08%	3.74%	Standard Deviation	-	6.21%	4.75%

Table Source: Astoria Portfolio Advisors. Data Source: Bloomberg, Barclays, MSCI, Wilshire, Orion Advisors, Charles Schwab. Data as of June 30, 2020. YTD numbers are not annualized. All other numbers are annualized unless denoted. Benchmarks: Dynamic Aggressive Model: 70% MSCI All Country World Index (NDUEACWF), 15% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 15% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST). Dynamic Growth Model: 60% MSCI All Country World Index (NDUEACWF), 25% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 15% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST). Dynamic Growth & Income Model: 50% MSCI All Country World Index (NDUEACWF), 35% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 15% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST). Dynamic Conservative Model: 30% MSCI All Country World Index (NDUEACWF), 55% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 15% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST). Risk Managed Dynamic Income Model: 15% MSCI All Country World Index (NDUEACWF), 80% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 5% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST).











Astoria's Portfolio Construction Thoughts

Marginally increase the cyclicality of our portfolio by introducing a new factor tilt: Small Caps

Small Cap factor is pervasive, persistent, robust, cheap to implement, and the current entry point is particularly attractive in Astoria's view.

Reduce the portfolio's defensiveness by trimming the quality factor

Quality tends to work relatively better during later stages of economic cycles.

Keep our allocation to alternatives in the case our portfolio construction tilts do not materialize.

Why increase the cyclicality?

- 1) Macroeconomic indicators are starting to inflect higher. Earnings have troughed
- 2) Abundance of liquidity across various central banks.
- 3) Small Cap have a well documented factor bias.

Stay strategically tilted OW equity, UW bonds.

EW alts

OW the US, OW China, and slightly UW DM (cyclically leveraged to global economy), although we are raising our exposure to DM.

2-way turnover is 13% for our Growth & Income Model









Astoria's Portfolio Construction Thoughts

Credit is attractive to own.

We previously bought QLTA, LQD; we want to continue adding credit.

Preferred sits below bonds but above equity on the capital structure. They are tilted toward financials which are cheap and well capitalized.

Add Small Caps which have seen significant earnings deratings and are more economically sensitive.

Trim expensive valuation stocks (US high quality stocks)

Maintain min vol ETF as we want exposure to that factor, and we are UW fixed income.

When we run a factor risk model, no major changes compared to our old model



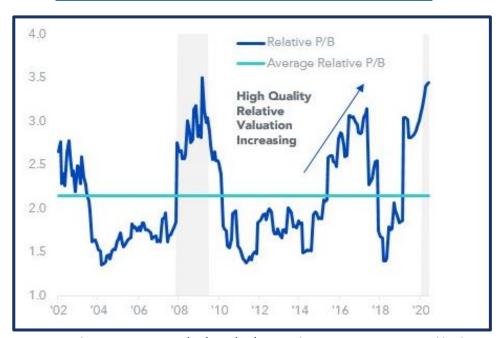




High quality stocks are starting to look historically expensive

Relative Price-to-Book: Highest Quality vs. Lowest Quality Quartiles

Relative Price-to-Sales: Highest Quality vs. Lowest Quality Quartiles





Source: WisdomTree, Factset, 1/31/02-6/30/20. Quality measure incorporated both static observations and trends of ROE, ROA, gross profits over assets and cash flow over assets for the 800 largest companies in the U.S. by market capitalization. Grey bars indicate recessions.

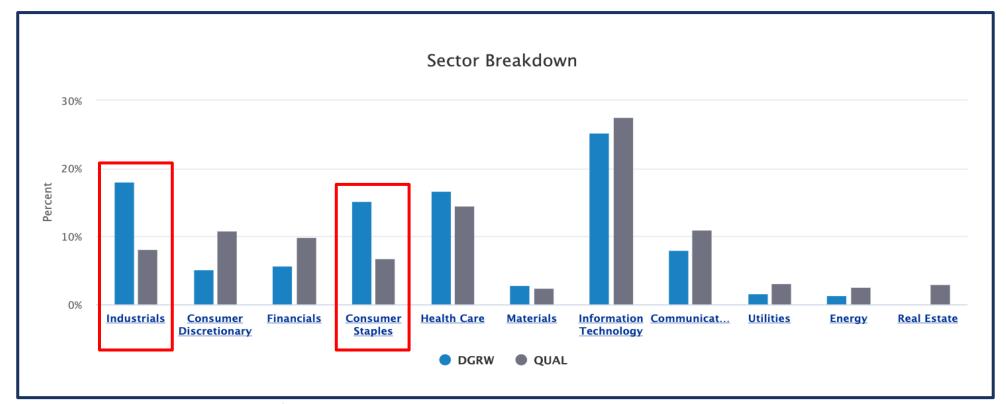






We are marginally trimming quality which worked well during the late cycle period as well as in the depths of the recession.

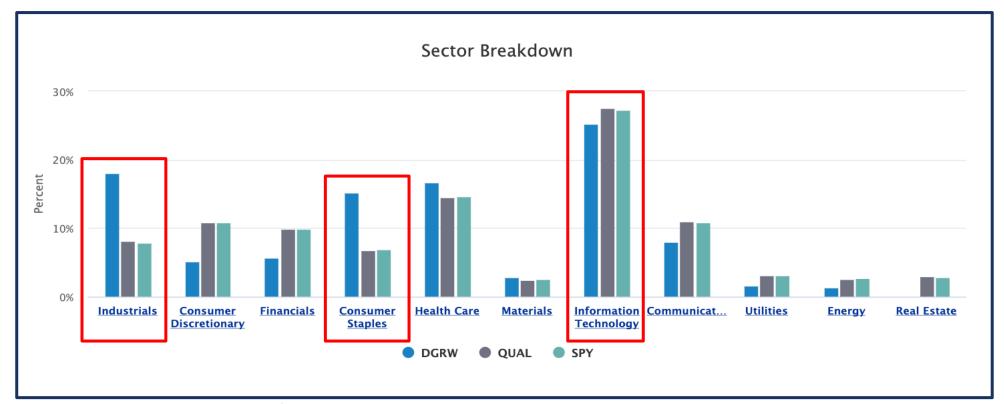
DGRW and QUAL Sector Breakdown



Source: ETFAction. Data accessed by Astoria Portfolio Advisors on July 9, 2020.

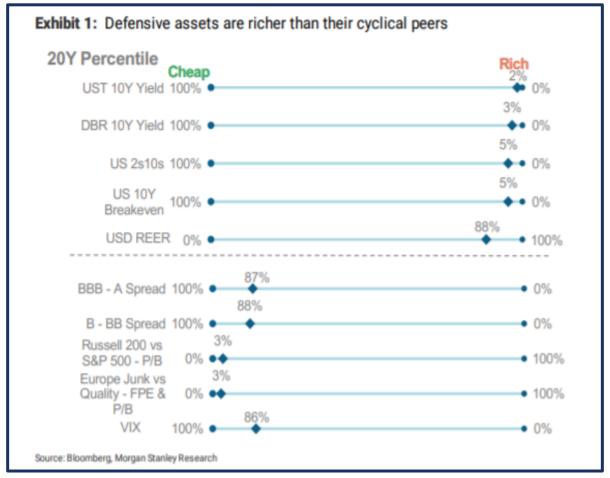
DGRW had a large tilt towards Industrials and Staples. It is UW Financials, Consumer Discretionary, Technology, and Communications.

DGRW, QUAL, and SPY Sector Breakdown



Source: ETFAction. Data accessed by Astoria Portfolio Advisors on July 9, 2020.

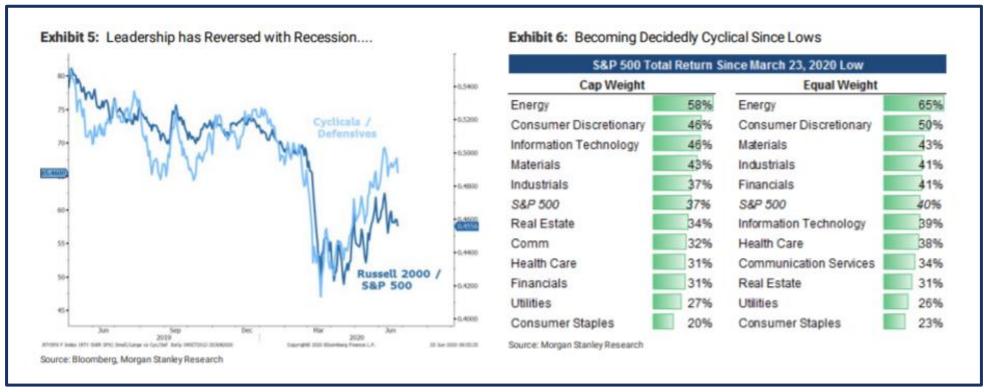
Defensives are expensive while Cyclicals are cheap. As the economy rebounds off the lows, Cyclicals are more attractive in Astoria's views.



Source: Morgan Stanley Research, Bloomberg.



Cyclicals and Small Caps have led since the March lows. Is this a coincidence? Astoria does not think so.



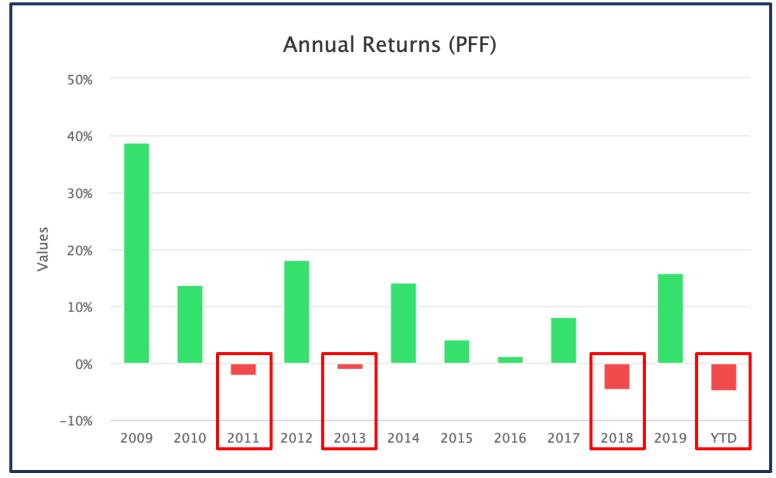
Source: Morgan Stanley Research, Bloomberg.







Astoria likes Preferred Shares. Historically, they have produced equity-like returns but with bond like volatility. Current Yield = 4.8%.



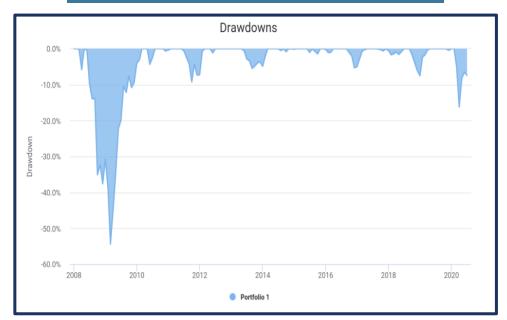
Source: ETFAction. Data accessed by Astoria Portfolio Advisors on July 9, 2020.





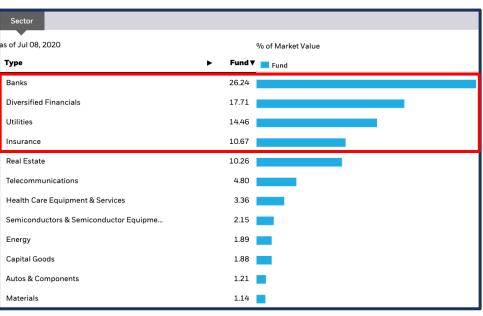
Preferred Shares fell 50% in 2008 given they traditionally have heavy exposure to the banking sector.

PFF Drawdowns



Source: Portfolio Visualizer. Data accessed by Astoria Portfolio Advisors on July 9, 2020.

PFF Sector Breakdown



Source: Blackrock iShares. Data accessed by Astoria Portfolio Advisors on July 9, 2020.

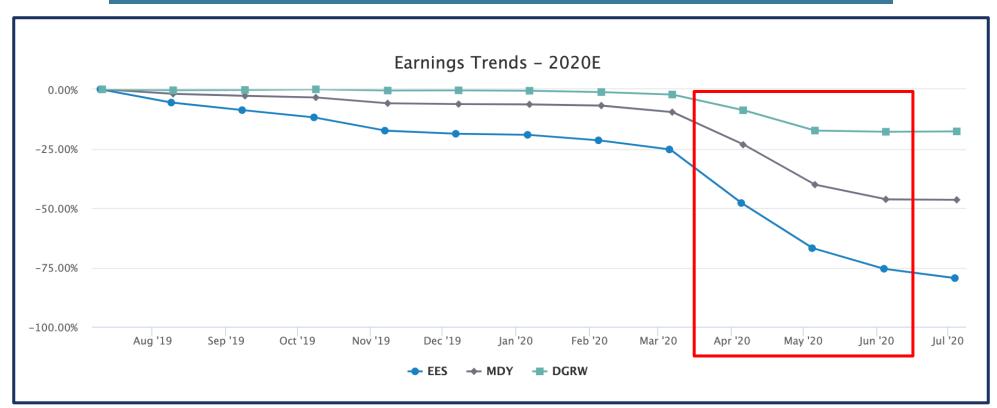






Small Cap (EES) earnings have de-rated to a much larger degree than Mid Caps (MDY) or Large Caps (DGRW).

EES, MDY, and DGRW Earnings Trends - 2020E



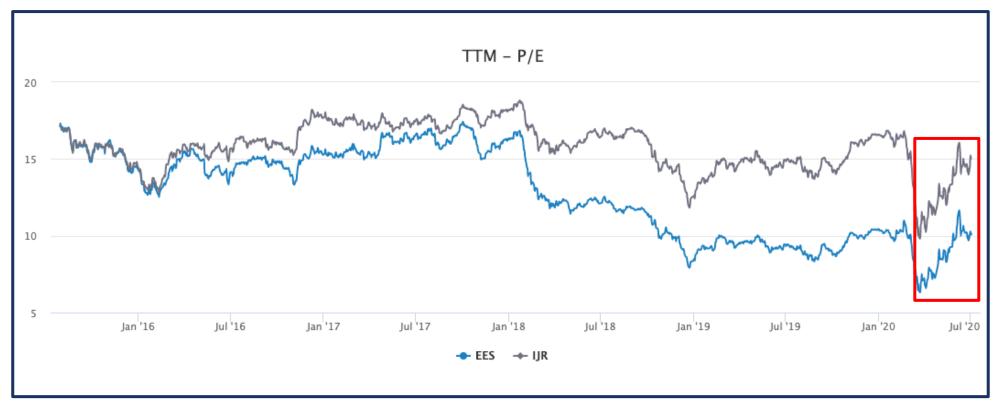
Source: ETFAction. Data accessed by Astoria Portfolio Advisors on July 9, 2020.





Small Caps have more operating leverage to the local economy. Given their earnings were de-rated more than Large Caps, we see potential for a greater rebound. EES has a significantly lower valuation compared to IJR & higher EPS growth.

EES and IJR Valuations



Source: ETFAction. Data accessed by Astoria Portfolio Advisors on July 9, 2020.





As mentioned, EES has higher EPS growth than IJR.

EES and IJR EPS









EES earnings were de-rated more so than IJR. Greater rebound ahead?

EES and IJR Earnings Trends - 2020E



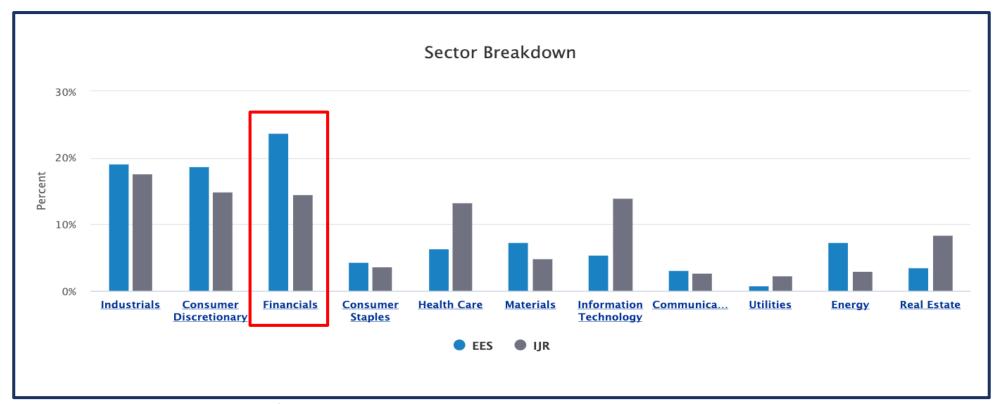






EES has more exposure to Small Cap Financials (more operating leverage to the US economy).

EES and IJR Sector Breakdown



Source: ETFAction. Data accessed by Astoria Portfolio Advisors on July 9, 2020.



Most of our aggregate portfolio risk is largely intact compared to our model. Past performance is not indicative of future results.



Source: Portfolio Visualizer. Data accessed by Astoria Portfolio Advisors on July 7, 2020. Past performance is not indicative of future results. We are using the current constituents of our old and new Growth & Income model and performing a historical backtest. Past performance is not indicative of future results. In the above tables, Current = pre-rebalance model, New = pro forma model, and 60/40 ACWI/AGG = 60% ACWI / 40% AGG Benchmark.





PE multiples are on the high side. However, with Fed Funds Rate anchored at 0%, we believe there is a new upper bound for PE ratios.

Astoria's Dynamic Growth & Income Portfolio vs. 60% ACWI / 40% AGG Benchmark

Valuation multiples			
Price/Earnings	18.62	Price/Earnings	19.57
Price/Book	2.89	Price/Book	2.22
Price/Sales	1.77	Price/Sales	1.66
Price/Cash flow	10.93	Price/Cash flow	11.38





We maintain our higher quality (higher ROE / ROA) and remain below Duration vs. benchmark.

Astoria's Dynamic Growth & Income Portfolio vs. 60% ACWI / 40% AGG Benchmark

Profitability			
Net margin	16.62%	Net margin	15.75%
ROE	24.92%	ROE	21.09%
ROA	9.39%	ROA	7.53%
Debt/Capital	37.40	Debt/Capital	39.70
Interest rate risk			
Average effective maturity	8.22	Average effective maturity	8.89
Average effective duration	6.10	Average effective duration	6.94
Average weighted coupon	3.09%	Average weighted coupon	2.62%







Post rebalance, we are still OW the US but we narrowed our large UW to Europe. We maintain a strategic OW to Asia.

Astoria's Dynamic Growth & Income Model vs. 60% ACWI / 40% AGG Benchmark

Americas	59.22%	Americas	60.60%
North America	57.96%	North America	59.53%
Latin America	1.26%	Latin America	1.07%
Greater Europe	18.39%	Greater Europe	19.34%
United Kingdom	4.11%	United Kingdom	4.34%
Europe-Developed	12.62%	Europe-Developed	13.30%
Europe-Emerging	0.86%	Europe-Emerging	0.58%
Africa/Middle East	0.80%	Africa/Middle East	1.12%
Greater Asia	22.39%	Greater Asia	20.06%
Japan	5.61%	Japan	6.91%
Australasia	1.70%	Australasia	1.94%
Asia-Developed	3.42%	Asia-Developed	4.28%
Asia-Emerging	11.66%	Asia-Emerging	6.93%







Sector Comparison

Astoria's Dynamic Growth & Income Model vs. 60% ACWI / 40% AGG Benchmark

Sensitive	39.57%	Sensitive	41.84%
Commun Svs	8.13%	Commun Svs	10.05%
Energy	2.27%	Energy	3.61%
Industrials	11.72%	Industrials	9.34%
Technology	17.45%	Technology	18.84%
Cyclical	32.12%	Cyclical	33.51%
Basic Matls	9.59%	Basic Matls	4.44%
Consumer Cyc	9.98%	Consumer Cyc	11.01%
Financial Svs	9.32%	Financial Svs	15.01%
Real Estate	3.23%	Real Estate	3.05%
Defensive	28.31%	Defensive	24.65%
Consumer Def	11.75%	Consumer Def	8.38%
Healthcare	13.62%	Healthcare	13.07%
Utilities	2.94%	Utilities	3.20%





We remain UW Treasuries. Yields are low with little room to decline further and our view is that we do not go into negative rate territory. We remain OW Corp & Securitized debt.

Astoria's Dynamic Growth & Income Model vs. 60% ACWI / 40% AGG Benchmark

Туре		Туре	
Government	29.60%	Government	60.09%
Municipal	0.25%	Municipal	0.30%
Corporate	43.18%	Corporate	20.09%
Securitized	22.95%	Securitized	13.87%
Cash & Equivalents	4.03%	Cash & Equivalents	5.65%
Derivative	0.00%	Derivative	0.00%
laturity breakdown	Double	Effective meturity	Do effoli
-	Portfolio	Effective maturity	Portfoli
Effective maturity	Portfolio 16.04%	Effective maturity	
Effective maturity 1-3		-	18.90%
Effective maturity 1-3 3-5	16.04%	1-3	18.90% 17.24%
Effective maturity 1-3 3-5	16.04% 17.84%	1-3 3-5	18.909 17.249 11.379
Effective maturity I-3 3-5 5-7 7-10	16.04% 17.84% 9.34%	1-3 3-5 5-7	18.90% 17.24% 11.37% 13.56%
Effective maturity 1-3 3-5 5-7 7-10	16.04% 17.84% 9.34% 10.03%	1-3 3-5 5-7 7-10	18.909 17.249 11.379 13.569 7.399
### Address of the International Control of t	16.04% 17.84% 9.34% 10.03% 4.54%	1-3 3-5 5-7 7-10 10-15	Portfolio 18.90% 17.24% 11.37% 13.56% 7.39% 6.04%







We still maintain a higher quality bond allocation.

Astoria's Dynamic Growth & Income Model vs. 60% ACWI / 40% AGG Benchmark

Credit quality breakdown			
Credit quality		Credit quality	
AAA	56.69%	AAA	45.58%
AA	5.11%	AA	15.03%
А	23.96%	A	18.68%
BBB	14.10%	BBB	20.69%
ВВ	0.13%	ВВ	0.02%
В	0.00%	В	0.00%
Below B	0.00%	Below B	0.00%
NR/NA	0.01%	NR/NA	0.00%





Astoria's Dynamic Growth & Income Model factor loadings did not significantly change with our recent rebalance.

Astoria's Dynamic Growth & Income Model vs. 60% ACWI / 40% AGG Benchmark

Current Model Equity + Alt Factor Loadings			
Market (Rm-Rf)	0.75		
Size (SMB)	-0.13		
Value (HML)	-0.13		
Prof (RMW)	0.29		
Invest (CMA)	0.02		

New Model Equity + Alt Factor Loadings			
Market (Rm-Rf)	0.74		
Size (SMB)	-0.12		
Value (HML)	-0.12		
Prof (RMW)	0.31		
Invest (CMA)	-0.01		

Current Model Fixed Income Factor Loadings			
Intermed Term Rate Risk (ITRM)	0.64		
Long Term Rate Risk (LTRM)	0.07		
Credit Risk (CDT)	0.21		
High Yield Credit Risk (HY)	0.07		

New Model Fixed Income Factor Loadings			
Intermed Term Rate Risk (ITRM)	0.58		
Long Term Rate Risk (LTRM)	0.07		
Credit Risk (CDT)	0.24		
High Yield Credit Risk (HY)	0.11		

Source: Portfolio Visualizer. Data accessed by Astoria Portfolio Advisors on July 7, 2020. In the above tables, Current = pre-rebalance model and New = pro forma model.







Old Portfolio Construction Tilts: OW US, UW Europe, OW EM Asia, UW Government & Munis, OW Corporates & Securitized, and UW Duration

Astoria's Pre-Rebalance Core Risk Based Model Portfolio Characteristics



Source: Vanguard. Data accessed by Astoria Portfolio Advisors on July 5, 2020. All data shown is expressed in basis points (bps) aside from Duration.







New Portfolio Construction Tilts: Marginally UW US & Europe and we remain strategically OW Asia. In fixed income, no major changes from our old portfolios.

Astoria's Pro Forma Core Risk Based Model Portfolio Characteristics



Source: Vanguard. Data accessed by Astoria Portfolio Advisors on July 7, 2020. All data shown is expressed in basis points (bps) aside from Duration.





Appendix:

- I) Trailing Returns of Astoria's Core Risk Based Model Portfolios.
- 2) Performance of Astoria's Model Portfolios since March 23, 2020





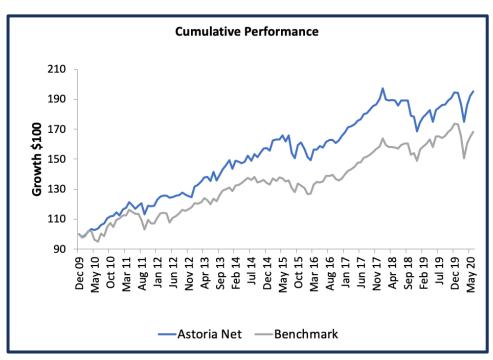


Multi-Asset Risk Strategy (MARS) YTD, I-Year, 3-Year, 5-Year, and Since Inception Risk / Net Return Summary (Continued)*

Performance	YTD	1 Year	3 Years	5 Years	Since Jan 2010
MARS Gross	0.53%	7.26%	3.92%	4.32%	7.10%
MARS Net	0.28%	6.72%	3.40%	3.80%	6.57%
MARS Benchmark	-3.10%	1.90%	4.40%	4.49%	5.07%
Standard Deviation	YTD	1 Year	3 Years	5 Years	Since Jan 2010
MARS Gross	_	11.16%	9.87%	9.49%	8.58%
MARS Net	_	11.16%	9.87%	9.49%	8.58%
MARS Benchmark	-	13.27%	9.80%	8.71%	8.60%
Sharpe Ratio	YTD	1 Year	3 Year	5 Year	Since Jan 2010
MARS Gross	_	0.54	0.24	0.34	0.74
MARS Net	-	0.50	0.19	0.28	0.68
MARS Benchmark	_	0.09	0.29	0.38	0.52

Table Source: Astoria Portfolio Advisors. Data Source: Bloomberg, Barclays, MSCI, Wilshire, Orion Advisors, Charles Schwab. Data as of June 30, 2020. YTD numbers are not annualized. All other numbers are annualized. Benchmark: Multi-Asset Risk Strategy: 50% MSCI All Country World Index (NDUEACWF), 30% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 20% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST).

From January 2010 through June 2020, the Multi-Asset Risk Strategy has cumulatively outperformed its benchmark by 27.48%.



Source: Bloomberg, Astoria Portfolio Advisors. Data as of June 30, 2020. Benchmark: Multi-Asset Risk Strategy: 50% MSCI All Country World Index (NDUEACWF), 30% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 20% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST).





The Multi-Asset Risk Strategy (MARS) is the longest running model with a 10-Year track record.*

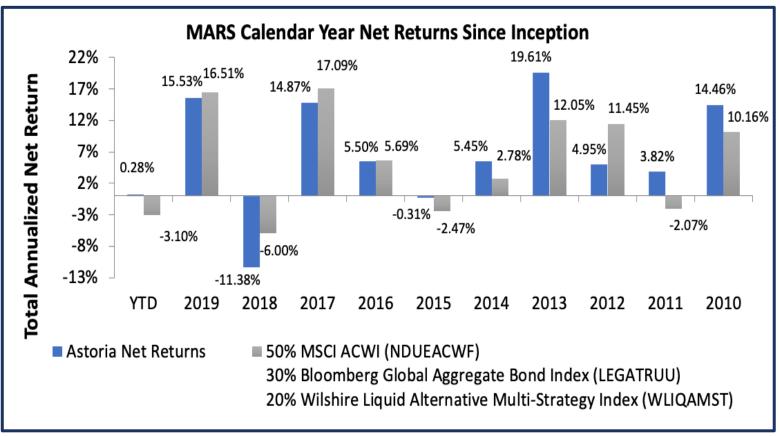


Chart Source: Astoria Portfolio Advisors. Data Source: Bloomberg, Barclays, MSCI, Wilshire, Orion Advisors, Charles Schwab. Data as of June 30, 2020. YTD numbers are not annualized. All other numbers are annualized unless denoted. Net Returns incorporate 50bps annualized management fee. Benchmark for the Multi-Asset Risk Strategy is 50% MSCI All Country World Index (NDUEACWF), 30% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 20% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST).







Model Portfolio Calendar Year Net Returns*

Dynamic Aggressive Model

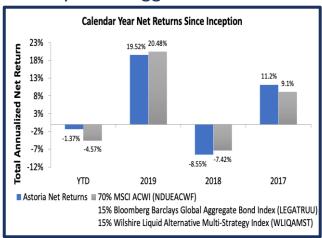


Chart Source: Astoria Portfolio Advisors. Data Source: Bloomberg, Barclays, MSCI, Wilshire, Orion Advisors, Charles Schwab. Data as of June 30, 2020. YTD numbers are not annualized. All other numbers are annualized unless denoted. Net Returns incorporate 15bps annualized management fee. Benchmark for the Dynamic Aggressive Model is 70% MSCI All Country World Index (NDUEACWF), 15% Bloomberg Barclays Global Aggregate Bond Index (LEGATRUU), 15% Wilshire Liquid Alternative Multi-Strategy Index (WLIQAMST).

Dynamic Growth Model

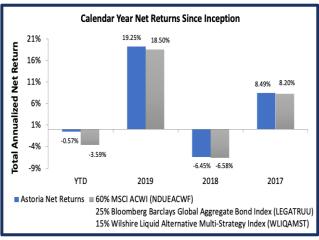


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Model Portfolio Calendar Year Net Returns (Continued)*

Dynamic Growth & Income Model

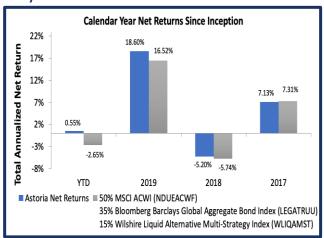


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Dynamic Conservative Model

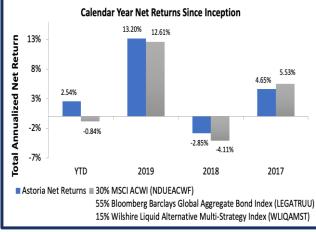


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Risk Managed Dynamic Income Model

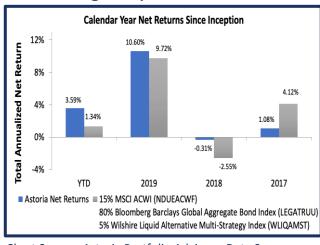


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Astoria's Model Portfolios have also outperformed during the risk on rally since March 23, 2020.

- Performance from March 23, 2020 to June 30, 2020
 - All of our Dynamic Strategic Model Portfolios, as well as MARS (Multi Asset Risk Strategy), have outperformed their benchmarks on a return basis since March 23, 2020.
 - The **outperformance** of the six strategies ranges from **14bps to 374bps** (average is **166bps**). See table below.

Astoria's Model Portfolio Returns vs. Benchmark since March 23, 2020
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Benchmark	March 23 – June 30	Model	March 23 – June 30 (Net of Fees)*	Out/Under Performance
Risk Managed Dynamic Income Benchmark (15/80/5)	10.43%	Risk Managed Dynamic Income Model	14.17%	3.74%
Dynamic Conservative Benchmark (30/55/15)	14.52%	Dynamic Conservative Model	16.84%	2.32%
Dynamic Growth & Income Benchmark (50/35/15)	19.75%	Dynamic Growth & Income Model	21.61%	1.86%
Dynamic Growth Benchmark (60/25/15)	22.41%	Dynamic Growth Model	23.57%	1.16%
Multi-Asset Risk Strategy Benchmark (50/30/20)	19.86%	Multi-Asset Risk Strategy	20.61%	0.75%
Dynamic Aggressive Benchmark (70/15/15)	25.09%	Dynamic Aggressive Model	25.23%	0.14%

Table Source: Astoria Portfolio Advisors. Data Source: Orion Advisors. Data as of June 30, 2020. See important disclosures at the end of the presentation.









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- Return Comparison: Both the MSCI All Country World Index and the Bloomberg Global Aggregate Bond indices were chosen as they are generally well recognized as an indicator or representation of the stock and bond market and include a cross section of holdings. Also, the Wilshire Liquid Alternative Multi-Strategy Index was chosen as it is generally well recognized as an indicator or representation of liquid alternative holdings. Indices are typically not available for direct investment, are unmanaged and do not incur fees or expenses. The results do not represent actual trading and actual results may significantly differ from the theoretical results presented.



