

Investment Process

# Who is Astoria Portfolio Advisors?



### Who We Are

Astoria Portfolio Advisors is an investment management firm that specializes in research driven, cross asset, ETF and thematic equity portfolio construction. Our core services include investment management, research and sub-advisory services.



### **Investment Philosophy & Approach**

Astoria brings institutional caliber investment strategies and utilizes ETFs to build wealth management solutions for investors. When formulating our ETF portfolios, we utilize a risk based, quantitative investment approach.



### **Astoria's Solutions**

Astoria's strategies are strategically constructed to their respective benchmarks and then actively managed through research driven factor tilts and the use of alternatives to dampen portfolio volatility and drive excess returns.



### What We Can Deliver

Astoria delivers passive strategies with a dynamic overlay in a liquid, transparent and tax efficient manner.







# John Davi has been one of the Industry's Thought Leaders in Cross Asset & Quantitative ETF Research and Portfolio Construction

Analyst – ML Equity Derivatives / Index Research	Coverage of ETFs and Research on Quant/ Equity Derivatives	Head of ML's Delta 1 Research	ML and MS Equity Derivatives & ETF Solutions	MS ETF Product Group	Begin to Manage Money Using Cross Asset, Quant Driven ETF Portfolios	Head of Institutional ETF Strategy at MS	Astoria Portfolio Advisors
2000	2001	2002-2007	2007-2009	2010	2010	2012	2017
Astoria's founder begins his career as an analyst in Merrill's Highly Ranked Quantitative Equity Derivatives Research Group	Begin constructing Quantitatively Driven ETF portfolio solutions. Executed and raised several billion in transactions	Continued research and advisory work for hedge funds, asset managers, pension funds, and endowments	Structured Equity Derivatives solutions for institutional investors.	Produced Macro & Quantitative ETF Strategy reports and advised institutional investors on ETF portfolio solutions	Our founder begins to manage his family office money using Cross Asset & Quantitatively driven ETF portfolios	Our founder pioneers Cross Asset ETF Content where over 10,000 institutional investors globally follow his content. Extensive world travel	Our founder creates an LLC, engineers cross asset & factor based, ETF investment solutions for RIAs, family offices, and pensions & endowments

Source: Astoria Portfolio Advisors LLC





# Assets Under Management/Advisement

Assets Under Management

\$700 mln

\$1.92 bln in assets AUM/AUA

**Assets Under Advisement** 

\$1,217.8 mln

Astoria began investing for clients in July 2017

AUM and AUA as of December 31, 2024.





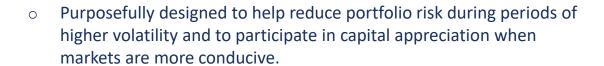


# Astoria's ETF Investment Management Process

### A Differentiated, Value-Added Process



Dynamic, quantitatively driven portfolios with a purpose





Markets evolve, your allocations should adapt

Astoria's Investment Committee utilizes a Cross Asset & Quantitative Research Process to make overlay decisions in response to changing macro-economic conditions and fundamentals.



Improve your ETF portfolio with multi-asset class exposure

 Using rigorous selection criteria, Astoria actively manages a broad universe of ETFs within Equity, Fixed Income and other asset classes such as Commodities, Liquid Alternatives and Cash.



Open-architecture Process

 Intense focus on picking the right ETFs which match the desired outcome from the investment process. Astoria employs an open architect process amongst all ETF issuers.



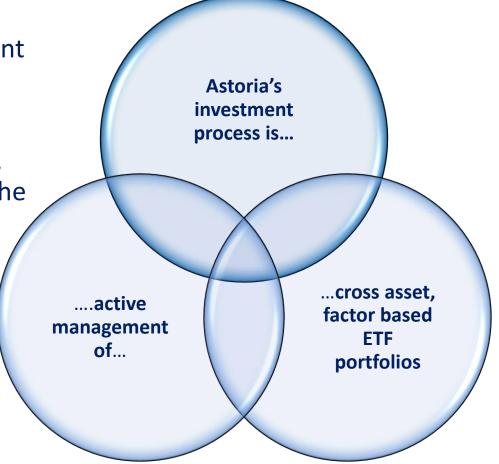




# Philosophy: Astoria Extracts Risk Premia via Factor Analysis. We Believe Blending *Active* and *Passive is* the True Sweet Spot for Active Management

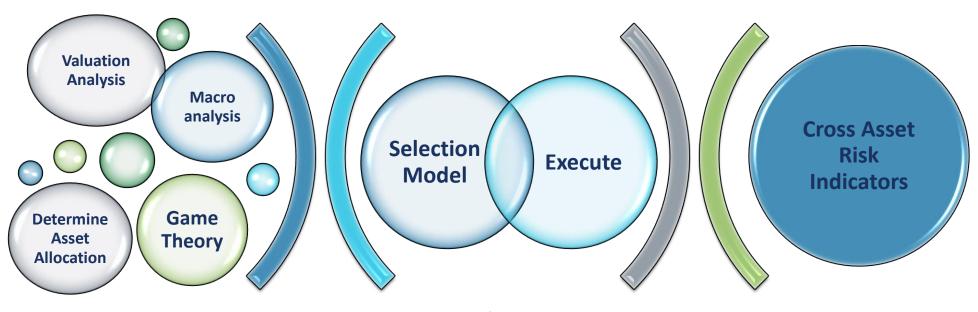
 We believe this is an ideal environment for active management

 Active management of cross asset, factor based ETFs offers investors the best of both worlds



Source: Astoria Portfolio Advisors LLC

# Process: Astoria Runs a Disciplined Cross Asset, Risk Premia Based Investment Management Process



Step 1: Research

Step 2: Portfolio Construction and Implementation

Step 3: Risk Management

Continuous Feedback Loop Between Research, Portfolio **Management and Risk Management** 

Source: Astoria Portfolio Advisors LLC



# Process: Astoria Utilizes Various Risk Models & Factor Tools in order to Stress Test our Portfolios & Understand our Risk Premia Exposures



Leverage market outlook models to identify rich/cheap assets

Quantitatively driven analysis

# **Game Theory**

Focus on the distribution of outcomes

Analyze cross product positioning and sentiment indicators

# **Risk Management**

Use inputs from the derivatives markets, leverage cross asset indicators, use factor models and tools to understand our exposures. De-risk the portfolio during times of distress.

Portfolio Management

In-depth Overview of our Macroeconomic Models and Cross Asset Risk Indicators is Available Upon Request.





# Astoria Offers a Range of ETF Strategic Solutions. We will hold a variety of asset classes including stocks, bonds, and a modest amount of alternatives.

We list the target equity ranges below. The balance is allocated towards bonds and a modest amount towards alternatives.

# Focus on long term returns

All of our strategies are based on macroeconomic & quantitative research. We utilize several risk modeling tools.

# Focus on risk adjusted returns

We believe the heavy emphasis on capturing short term alpha is providing a unique opportunity in generating long term returns.

# Multi-Asset Risk Allocation Strategy (MARS)\*

45 – 55% equity

Benchmark: 50% MSCI All Country World Index

50% Bloomberg Barclays Global Aggregate Bond Index

# **Dynamic 50/50 Model**

45 – 55% equity

Benchmark: 50% MSCI All Country World Index

50% Bloomberg Barclays Global Aggregate Bond Index

# Dynamic 70/30 Model

70 – 80% equity

Benchmark: 70% MSCI All Country World Index

30% Bloomberg Barclays Global Aggregate Bond Index

### Dynamic 30/70 Model

25 – 35% equity

Benchmark: 30% MSCI All Country World Index

70% Bloomberg Barclays Global Aggregate Bond Index

# Dynamic 60/40 Model

60 – 70% equity

Benchmark: 60% MSCI All Country World Index

40% Bloomberg Barclays Global Aggregate Bond Index

# **Dynamic 15/85 Model**

10 – 20% equity

Benchmark: 15% MSCI All Country World Index

85% Bloomberg Barclays Global Aggregate Bond Index







# **ETF Portfolio Construction**

Concentration	10-15 ETFs. Largest weight typically 15-17%; lowest weight typically 2-3%. Portfolio allocation: equities 40%-60%, bonds 15-20%, alternatives 15-20%. Cash is used opportunistically
Exposure	Developed and emerging market equities & FX, non traditional interest rate and credit spread products (i.e. emerging market debt, variable preferred, municipals), energy/oil, agriculture, industrial metals, gold, liquid alternatives. 100% of the exposures are ETFs
Time Horizon	1-2 years
Sector Focus	Multi Sector Focused
Sector Focus  Market Capitalization	Multi Sector Focused  Vast majority of our equity exposures are large caps ETFs  Small/Midcap ETFs are used opportunistically







# Astoria's ETF Portfolio Construction Process

# **Five Pillars to Astoria's Investment Process**









- 1. Make investment decisions based on **empirical evidence** and focus on **after-tax**, **after-inflation**, **and risk-adjusted returns**
- 2. Diversify across global equities, across asset class, and use alternatives to soften portfolio volatility
- 3. Diversify across factors: The research shows historically you have been able to get higher up on the efficient frontier when harvesting a basket of factors over long periods of time
- 4. Utilize portfolio construction tools and risk models to ensure the tracking error is within appropriate bands (+/- 100/200bps vs. a traditional style box)
- 5. Harvest losses via a systematic tax loss harvesting program





Astoria also Offers Thematic Strategy Solutions. These portfolios are managed around a specific outcome, factor tilt, sector tilt, or macroeconomic theme.

We list the target equity ranges below. Each portfolio is focused on a unique theme which vary its security types and risk.

# Focus on long term returns

Our strategies are quantitative and systematic in nature.

### Focus on secular investment trends

We believe quantitatively driven, concentrated, equally weighted portfolios offer a unique client experience and potential outcome.

Renaissance Risk Managed Rotation ETF Portfolio

85 – 95% equity

Benchmark: 100% Russell 1000 Index

Inflation Sensitive ETF Portfolio

70 – 85% equity

Benchmark: 70% MSCI All Country World Index, 10%, Bloomberg US TIPS (1-3 Y) Index, and 20% Bloomberg Commodity Index







# Astoria's stock portfolios are rules based, quantitatively driven, and systematic in nature.

Each portfolio has a unique focus and filter strategy. Some focus on quality, some growth, and some dividend yield.

# Focus on long term returns

Our strategies are quantitative and systematic in nature.

# **High Growth Portfolio**

100% equity

Benchmark: 100% Russell 1000 Growth Index

# Dividend Growers Portfolio

100% equity

Benchmark: 100% S&P 500 Dividend Aristocrats Index

# Focus on risk adjusted returns

We believe quantitatively driven, concentrated, equally weighted portfolios offer a unique client experience and potential outcome.

# **High Quality Portfolio**

100% equity

Benchmark: 100% MSCI USA Sector Neutral Quality Index

# High Dividend Yield Portfolio

100% equity

Benchmark: 100% Morningstar Dividend Yield Focus Index







# Astoria's Stock Portfolio Construction Process

## 1) US Stock Selection Universe

Depending on the theme of the portfolio, the universe of stocks is defined by thresholds of the following criteria:

- Market Capitalization
- % of Free Float Shares
- Average Volume over the Past 6 Months
- Sector / Dividend Constraints

# 2) Sector Specific Metrics

The metrics used for factor within a sector depend on which ones have historically best captured the factor within that sector. For example:

- Valuation within Energy uses:
  - Forward PE Estimate
  - Price / Book Value
- Valuation within Materials uses:
  - Price / Cash Flow
  - EV / EBITDA

### 3) Sector Adjusted Screening

Using all the companies that pass each screen, the adjustment is calculated on a sector-by-sector basis:

- Calculate and subtract the median of each metric from the original metric
- According to the sector, the adjusted metric will be used for ranking for the relevant factor

# 4) Rank Logic

- Securities are ranked on a sector-by-sector basis
- A weighting, which depends on the theme, is assigned to each factor used in the portfolio
- If a factor has two or more underlying components, each will have an equal weighting
- Ranks are calculated in deciles; best values
   associated with each factor return a "1" and the
   worst values associated with each factor return a
   "10"
- A weighted average of the ranks for all factors will be the overall deciding rank
- The 40 best ranked stocks are selected



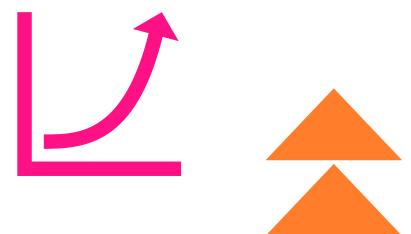




# High Growth US Stock Portfolio: Target 40 stocks that have the potential for above average growth

- Universe Constraints:
  - Market Cap >= 15bln
  - Free Float Shares >= 25%
  - Average Volume Past 6M >= 50mln
  - Exclude Real Estate, Utilities, Financials,
     Consumer Staples sectors
- Factor Weighting Mix:
  - 40% Momentum
  - 50% Growth
  - 10% Quality
- Sector optimized

- The stocks are market cap weighted (5.0% max) by sector target
- Our Benchmark is 100% Russell 1000 Growth
   Index and is rebalanced monthly









# High Quality US Stock Portfolio: Target 40 stocks with high quality characteristics

- Universe Constraints:
  - Market Cap >= 75bln
  - Free Float Shares >= 25%
  - Average Volume Past 6M >= 50mln
- Factor Weighting Mix:
  - 35% Valuation
  - 10% Momentum
  - 10% Growth
  - 35% Quality
  - 10% Dividend
- Sector optimized

- The stocks are market cap weighted (5.0% max) by sector target
- Our Benchmark is 100% MSCI USA Sector Neutral Quality Index and is rebalanced monthly





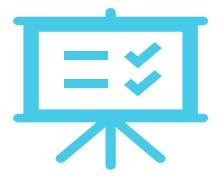


# Dividend Growers US Stock Portfolio: Target 40 stocks that have consistently increased their dividend for at least 10 consecutive years

- **Universe Constraints:** 
  - Market Cap >= 20bln
  - Free Float Shares >= 25%
  - Average Volume Past 6M >= 50mln
  - Consecutive Years of Dividend Growth >= 10
- Factor Weighting Mix:
  - 25% Valuation
  - 25% Quality
  - 50% Dividend
- Sector optimized

- The stocks are equally weighted and rebalanced annually
- Our Benchmark is 100% S&P 500 Dividend Aristocrats Index and is rebalanced monthly









# High Dividend Yield US Stock Portfolio: Target 40 stocks that demonstrate strong dividend-paying potential

- Universe Constraints:
  - Market Cap >= 10bln
  - Free Float Shares >= 25%
  - Average Volume Past 6M >= 50mln
  - Dividend Yield > 2.5%
- Factor Weighting Mix:
  - 25% Valuation
  - 25% Quality
  - 50% Dividend
- Sector optimized

- The stocks are market cap weighted (5.0% max) by sector target
- Our Benchmark is 100% Morningstar
   Dividend Yield Focus Index and is rebalanced quarterly









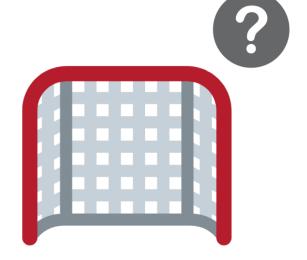
# Step I: What is the goal for the end client?

Step 1 tells us how much equity to put into the portfolio.

Growth

Income

Do we need to hedge the upside risk?









# Step 2: How much risk can the client take?

Step 2 tells us if we need to utilize low cost ETFs or ETFs which have higher active share.

# What is our Tracking Error?

- 1% Active risk winds up requiring 50%-70% core low cost ETFs
- 2-3% Active risk allows Astoria to utilize a) high active share
   ETFs b) modest portfolio construction tilts c) alternatives

# Factors or no factors?

- Value vs Growth
- Quality vs Low Volatility
- Momentum? Size?

# Include alternatives?

- We are not paid to take views on the Fed, oil, or viruses. We are benchmark investors and the goal is to deliver the returns of the benchmark +/- a spread by
- 1) tilting the portfolio based on empirical evidence,
- 2) systematic tax loss harvesting, and
- 3)utilizing alternatives to minimize downside risk







# Step 3: Where are we in economic cycle?

Step 3 tells us which parts of the stock and bond universe we will tilt towards

Focus on valuations, earnings growth & equity risk premiums

Is there inflation? Are interest rates being

suppressed?





# Step 4: What factors have historically worked during this stage of the cycle?

Step 4 dictates which factors we want to utilize in the portfolio. Select factors which are persistent, pervasive, robust, cheap (and implementable)



Go with factors which have 50-75 years of empirical evidence justifying their risk premiums











Step 5: Load ETFs into a portfolio risk tool. Rinse & repeat until the desired outcome is reached

Step 5 is truly Astoria's edge and a key reason why RIAs utilize Astoria's services

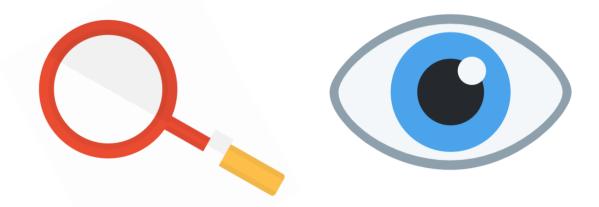








**Ongoing** basis: **Monitor** performance, risk, portfolio tilts, attribution. Report back to the advisor.



Astoria produces hundreds of pages of content regarding our investment rationale, investment policy statement, ETF due diligence, trade documentation, performance attribution, factor tilts







# Astoria Has Been Highlighted on...



































Astoria Portfolio Advisors' strategies can be accessed through multiple Broker Dealers (BDs) and Turnkey Asset Management Programs (TAMPs). Please see below a list of platforms where Astoria's strategies are readily available.













































# Astoria is a Frequent Contributor to Various Media Outlets



January 2023

"You should always be diversified across factors. That's what we believe in. The research shows that you can get higher up on the efficient frontier when you own factors. Min vol. is one factor; we like dividends, and we like quality.."

-January 2023

**November 2022** 

"We went into this year defensively positioned. We owned a lot of alternatives, inflation-fighting strategies, shortduration bonds, and most of our exposure was to the quality factor."

-November 2022









# Warranties & Disclaimers

- Disclaimers | Not FDIC/NCUA Insured | Not a Deposit | May Lose Value | No Bank Guarantee | Not Insured | Past Performance is Not Indicative of Future Returns
- There are no warranties implied. Astoria Portfolio Advisors LLC is a registered investment adviser located in New York. Astoria Portfolio Advisors LLC may only transact business in those states in which it is registered or qualifies for an exemption or exclusion from registration requirements. Astoria Portfolio Advisors LLC's web site is limited to the dissemination of general information pertaining to its advisory services, together with access to additional investment-related information, publications, and links. Accordingly, the publication of Astoria Portfolio Advisors LLC's web site on the Internet should not be construed by any consumer and/or prospective client as Astoria Portfolio Advisors LLC's solicitation to effect, or attempt to effect transactions in securities, or the rendering of personalized investment advice for compensation, over the Internet. Any subsequent, direct communication by Astoria Portfolio Advisors LLC with a prospective client shall be conducted by a representative that is either registered or qualifies for an exemption or exclusion from registration in the state where the prospective client resides.
- A copy of Astoria Portfolio Advisors LLC's current written disclosure statement discussing Astoria Portfolio Advisors LLC's business operations, services, and fees is available at the SEC's investment adviser public information website <a href="www.adviserinfo.sec.gov">www.adviserinfo.sec.gov</a> or from Astoria Portfolio Advisors LLC upon written request. Astoria Portfolio Advisors LLC does not make any representations or warranties as to the accuracy, timeliness, suitability, completeness, or relevance of any information prepared by any unaffiliated third party, whether linked to Astoria Portfolio Advisors LLC's web site or incorporated herein and takes no responsibility therefor. All such information is provided solely for convenience purposes only and all users thereof should be guided accordingly. This website and information presented is for educational purposes only and does not intend to make an offer or solicitation for the sale or purchase of any specific securities, investments, or investment strategies. Investments involve risk and unless otherwise stated, are not guaranteed. Be sure to first consult with a qualified financial adviser and/or tax professional before implementing any strategy. This website and information are not intended to provide investment, tax, or legal advice.
- Past performance is not indicative of future performance. Indices are typically not available for direct investment, are unmanaged, and do not incur fees or expenses. This information contained herein has been prepared by Astoria Portfolio Advisors LLC on the basis of publicly available information, internally developed data and other third-party sources believed to be reliable. Astoria Portfolio Advisors LLC has not sought to independently verify information obtained from public and third-party sources and makes no representations or warranties as to accuracy, completeness or reliability of such information. All opinions and views constitute judgments as of the date of writing without regard to the date on which the reader may receive or access the information and are subject to change at any time without notice and with no obligation to update. Any ETF Holdings shown are for illustrative purposes only and are subject to change at any time. This material is for informational and illustrative purposes only and is intended solely for the information of those to whom it is distributed by Astoria Portfolio Advisors LLC. No part of this material may be reproduced or retransmitted in any manner without the prior written permission of Astoria Portfolio Advisors LLC. Investing entails risks, including possible loss or some or all of the investor's principal. The investment views and market opinions/analyses expressed herein may not reflect those of Astoria Portfolio Advisors LLC as a whole and different views may be expressed based on different investment styles, objectives, views or philosophies. To the extent that these materials contain statements about the future, such statements are forward looking and subject to a number of risks and uncertainties.



