

# ADAPTIVE GLOBAL INCOME AND GROWTH (AGIG) ETF

## Investor Prospectus

**Fund Name:** Adaptive Global Income and Growth ETF

**Ticker Symbol:** AGIG

**Fund Type:** Actively Managed Exchange-Traded Fund

**Investment Strategy:** AI-Driven Multi-Objective Portfolio Optimization

**Inception Date:** 2025

**Management Recommendation:** Hybrid Strategy (Balanced Approach)

## EXECUTIVE SUMMARY

The Adaptive Global Income and Growth (AGIG) ETF represents a revolutionary approach to investment management, combining cutting-edge Artificial Intelligence with rigorous Operations Research methodologies to deliver superior risk-adjusted returns across all market conditions. Unlike traditional ETFs that follow static allocation rules, AGIG dynamically adapts to changing market conditions while maintaining a disciplined focus on three core objectives:

1. **Growth:** Capital appreciation through strategic equity exposure
2. **Income:** Sustainable dividend income generation (target 3.0% yield)
3. **Capital Preservation:** Downside protection through intelligent risk management

By leveraging advanced Bidirectional LSTM neural networks and multi-objective optimization (NSGA-II), AGIG democratizes institutional-grade quantitative strategies previously available only to large hedge funds, offering them in a transparent, low-cost ETF structure accessible to all investors.

# INVESTMENT PHILOSOPHY

## Core Principles

### 1. Dynamic Adaptation Over Static Allocation

Traditional Modern Portfolio Theory (Markowitz, 1952) optimizes portfolios based on historical data and assumes stable relationships. AGIG transcends these limitations by:

- Continuously learning from market dynamics using AI
- Predicting future returns and covariances rather than relying solely on historical patterns
- Adjusting allocations proactively as market conditions evolve

### 2. Multi-Objective Optimization

AGIG recognizes that investors have competing goals that cannot be reduced to a single metric. Our optimization framework simultaneously balances:

- **Return Maximization:** Targeting superior long-term growth
- **Dividend Income:** Ensuring consistent 3%+ annual yield
- **Volatility Minimization:** Reducing portfolio standard deviation
- **Tail Risk Management:** Minimizing Conditional Value-at-Risk (CVaR) at 95% confidence

### 3. Personalized Financial Planning for All Life Stages

AGIG offers three portfolio strategies within a single fund structure:

- **Aggressive Growth:** Younger investors seeking maximum capital appreciation
- **Balanced Hybrid:** Middle-aged investors balancing growth and income (**RECOMMENDED**)
- **Conservative Income:** Retirees prioritizing stable withdrawals and capital preservation

## The Hybrid Advantage (Management Recommendation)

After rigorous backtesting and Monte Carlo analysis, **we recommend the Hybrid (Balanced) strategy** as the optimal approach for most investors:

### Why Hybrid?

#### 1. Superior Risk-Adjusted Returns

- Sharpe Ratio: 0.88 (strong risk-adjusted performance)
- Expected Annual Return: 12.3%
- Volatility: 11.7% (moderate risk profile)

## 2. **Balanced Income Generation**

- Dividend Yield: 3.5% (exceeds 3% target)
- Provides meaningful cash flow without sacrificing growth

## 3. **Optimal Asset Concentration**

- 30 active positions with all holdings >1.0%
- Top 10 positions represent 71.5% (focused high-conviction portfolio)
- Diversified across 11 distinct sectors/asset classes
- No single position exceeds 8% (risk management discipline)

## 4. **Robust Across Market Cycles**

- CVaR (95%): 15.8% (managed tail risk)
- Performs well in both bull and bear markets
- Lower drawdown than pure growth strategies

## 5. **Adaptability**

- Can tilt toward growth during bull markets
- Automatically shifts defensive during volatility
- Appeals to broadest investor demographic (ages 35-65)

# INVESTMENT METHODOLOGY

## 1. **Advanced Predictive Analytics**

### **Bidirectional Long Short-Term Memory (Bi-LSTM) Neural Network**

AGIG employs a state-of-the-art deep learning architecture specifically designed for time-series forecasting:

- **Architecture:** Multi-layer Bi-LSTM with 128→64→32 unit configuration
- **Input Features:** 60-day lookback window with 20+ technical indicators per asset
- **Outputs:**
  - Predicted returns for 30 assets
  - Predicted covariance matrix (465 pairwise relationships)
- **Training:** 25 years of historical data (1999-2024)
- **Validation:** 16% validation split with early stopping to prevent overfitting

### **Feature Engineering**

Each asset is analyzed using comprehensive technical and fundamental indicators:

### *Trend Indicators:*

- Simple Moving Averages (SMA): 20, 50, 252-day
- Exponential Moving Averages (EMA): 12, 26-day
- MACD (Moving Average Convergence Divergence)

### *Momentum Indicators:*

- Relative Strength Index (RSI): 14-day
- Stochastic Oscillators (K, D)

### *Volatility Indicators:*

- Average True Range (ATR): 14-day
- Bollinger Bands (upper, middle, lower)
- Long-term volatility: 252-day rolling standard deviation

### *Volume Indicators:*

- On-Balance Volume (OBV)
- Volume anomaly detection (60-day vs 252-day)

### *Custom Long-Term Features:*

- Price-to-SMA ratios (252-day, 500-day)
- Volatility regime detection

## **2. Multi-Objective Portfolio Optimization (NSGA-II)**

### **Optimization Framework**

AGIG uses the Non-dominated Sorting Genetic Algorithm II (NSGA-II), a cutting-edge evolutionary algorithm that:

- Generates a Pareto-efficient frontier of optimal portfolios
- Simultaneously optimizes 4 competing objectives:
  - i. **Maximize Expected Return** (predicted annualized)
  - ii. **Maximize Dividend Yield** (target  $\geq 3\%$ )
  - iii. **Minimize Portfolio Volatility** (standard deviation)
  - iv. **Minimize CVaR** (95% tail risk measure)

### **Dynamic Constraints**

- Weights sum to 100% (fully invested)
- Dividend yield  $\geq 3.0\%$  (income requirement)
- Individual asset weight: 0% - 15% (allows concentration in high-conviction positions)
- Population size: 100 portfolios per generation
- Generations: 250 (ensures convergence to optimal solutions)

## Portfolio Selection Strategy

From the Pareto-efficient frontier, AGIG selects portfolios using a **Concentration Score**:

$$\text{Concentration Score} = \text{Sharpe Ratio} - 0.01 \times \text{Number of Active Assets}$$

This penalizes over-diversification, ensuring capital is allocated to the highest-conviction opportunities while maintaining adequate risk management.

## 3. Continuous Rebalancing and Risk Management

### Rebalancing Protocol

- **Frequency**: Monthly rebalancing to maintain target allocations
- **Trigger-Based**: Additional rebalancing if any position deviates  $>5\%$  from target
- **Transaction Cost Optimization**: Minimizes turnover while maintaining discipline

### Risk Management

- **Stop-Loss Protocols**: Individual position monitoring with 20% stop-loss
- **Correlation Monitoring**: Dynamic tracking of asset correlations to prevent concentration risk
- **Volatility Targeting**: Portfolio volatility maintained within 10-15% range (Hybrid)
- **Liquidity Requirements**: All holdings maintain minimum  $1B$  marketcap and 10M daily volume

## PORTFOLIO COMPOSITION

### Asset Universe (30 Securities)

#### Technology Growth (8 positions)

- AAPL (Apple), GOOG (Alphabet), MSFT (Microsoft), NVDA (NVIDIA)
- AMZN (Amazon), AMD (Advanced Micro Devices), INTC (Intel), META (Meta)

**Consumer Staples & Defensive (5 positions)**

- COST (Costco), PG (Procter & Gamble), KO (Coca-Cola), PEP (PepsiCo), WMT (Walmart)

**Financials & Healthcare (5 positions)**

- CME (CME Group), AVGO (Broadcom), PFE (Pfizer), ABBV (AbbVie), HD (Home Depot)

**Energy (2 positions)**

- XOM (Exxon Mobil), VDE (Vanguard Energy ETF)

**Dividend Income (2 positions)**

- SCHD (Schwab U.S. Dividend Equity ETF), VYM (Vanguard High Dividend Yield ETF)

**International Equity (2 positions)**

- VWO (Vanguard Emerging Markets ETF), VEA (Vanguard Developed Markets ETF)

**Alternative Assets (4 positions)**

- GLD (Gold), SLV (Silver), FXY (Japanese Yen), FDIVX (Fidelity Strategic Dividend & Income)

**Fixed Income (2 positions)**

- TLT (iShares 20+ Year Treasury Bond ETF), SPLB (SPDR Portfolio Long Term Corporate Bond ETF)

**Hybrid Strategy Allocation (Actual Weights - Portfolio #21)**

**Top Holdings:**

Asset	Weight	Category	Rationale
MSFT	7.94%	Technology	Cloud computing leader, enterprise software dominance
NVDA	7.94%	Technology	AI/GPU market leader, growth catalyst
TLT	7.88%	Fixed Income	Duration exposure, flight-to-quality protection
SPLB	7.81%	Fixed Income	Corporate bond diversification, credit exposure
XOM	7.80%	Energy	Energy security, inflation hedge, strong dividend

Asset	Weight	Category	Rationale
KO	7.68%	Consumer Staples	Dividend aristocrat, pricing power, global brand
AVGO	7.66%	Technology	Semiconductor infrastructure, 5G exposure
FDIVX	7.59%	Income Fund	Active dividend management, income focus
HD	6.34%	Consumer Discretionary	Housing market proxy, dividend growth
PFE	4.83%	Healthcare	Pharmaceutical stability, defensive characteristics

**Top 10 holdings represent 71.5% of portfolio**

**Additional Holdings (Remaining 20 positions - 28.5%):**

Asset	Weight	Asset	Weight
SCHD	2.66%	WMT	1.21%
PG	1.99%	AAPL	1.16%
AMD	1.94%	CME	1.14%
COST	1.47%	META	1.18%
ABBV	1.34%	VEA	1.18%
INTC	1.29%	PEP	1.22%
VYM	1.24%	FXV	1.13%
AMZN	1.09%	GOOG	1.09%
VWO	1.08%	VDE	1.07%
GLD	1.03%	SLV	1.02%

**Note:** All 30 positions are actively held with minimum weight >1.0%

**Sector Allocation (Based on Actual Weights):**

- Technology: 25.5% (MSFT, NVDA, AVGO, AMD, INTC, AAPL, GOOG, META)
- Fixed Income: 15.7% (TLT, SPLB)
- Consumer Staples: 13.4% (KO, WMT, COST, PG, PEP)

- Income Funds: 10.2% (FDIVX, SCHD, VYM)
- Energy: 9.5% (XOM, VDE)
- Healthcare: 6.2% (PFE, ABBV)
- Consumer Discretionary: 6.3% (HD)
- Financials: 1.1% (CME)
- International Equity: 3.0% (VEA, VWO)
- Alternatives: 2.2% (GLD, SLV)
- Currency: 1.1% (FXV)
- Technology E-commerce: 4.8% (AMZN)

# PERFORMANCE METRICS

## Historical Backtesting (1999-2024)

Hybrid Strategy Performance:

Metric	Hybrid	Aggressive Growth	Conservative Income	S&P 500 (SPY)
Annualized Return	12.32%	23.59%	9.80%	~10.5%
Annualized Volatility	11.74%	6.85%	11.23%	~15.0%
Sharpe Ratio	0.88	3.15	0.69	~0.65
Dividend Yield	3.50%	2.61%	3.43%	~1.5%
CVaR (95%)	15.77%	46.52%	18.53%	~25.0%
Max Drawdown	-18.5%	-12.3%	-22.1%	-34.0%
Active Assets	22	28	14	500+
Beta to S&P 500	0.68	0.42	0.71	1.00
Alpha	+1.80%	+13.09%	-0.70%	0.00%

Key Insights:

- 1. **Superior Risk-Adjusted Returns:** Hybrid strategy's Sharpe Ratio of 0.88 significantly outperforms S&P 500's 0.65, indicating better compensation per unit of risk
- 2. **Consistent Income:** 3.5% dividend yield provides reliable cash flow, more than double the S&P 500's 1.5%
- 3. **Downside Protection:** Maximum drawdown of -18.5% vs S&P 500's -34.0% demonstrates superior capital preservation during market crashes
- 4. **Positive Alpha:** +1.80% annual alpha indicates consistent outperformance after adjusting for market risk
- 5. **Moderate Beta:** 0.68 beta suggests 32% less market sensitivity than S&P 500, reducing volatility while capturing upside

## Monte Carlo Simulation Results

**Methodology:**

- 10,000 simulated scenarios
- 25-year projection period
- Incorporates:
  - Historical return distributions
  - Predicted covariance structures
  - Management fees (1.0% annual)
  - Performance fees (20% on excess returns above SPY)
  - Transaction costs (10 bps per trade)
  - Monthly rebalancing

**Hybrid Strategy Monte Carlo Results:**

Metric	5th Percentile	Median	95th Percentile
Terminal Wealth (\$100K initial)	\$287,000	\$952,000	\$3,180,000
Annualized Return	4.3%	11.8%	19.2%
Probability of Loss	8.2%	-	-
Probability of Outperforming SPY	-	67.3%	-
Worst-Case Annual Return	-14.7%	-3.2%	+8.1%
Best-Case Annual Return	+15.3%	+26.4%	+42.8%

**Interpretation:**

- **67.3% probability** of outperforming S&P 500 in any given year
- **91.8% probability** of positive returns annually
- **Median outcome:** *100K grows to 952K* over 25 years (11.8% CAGR)
- **Downside protection:** Even in worst-case 5th percentile, portfolio grows to \$287K (4.3% CAGR)

## RISK MANAGEMENT & DISCLOSURE

### Risk Factors

#### Market Risk

AGIG invests in equity securities subject to market volatility. While our AI-driven approach seeks to mitigate downside risk, losses can occur during severe market downturns.

#### Model Risk

The fund's performance depends on the accuracy of AI predictions. Machine learning models can underperform if historical patterns break down or unprecedented events occur (e.g., COVID-19 pandemic, geopolitical shocks).

#### Concentration Risk

The Hybrid strategy typically holds 20-25 positions with top 5 holdings representing ~50% of assets. This concentrated approach amplifies both gains and losses compared to broad market indices.

#### Dividend Risk

Income generation depends on companies maintaining dividend policies. Economic downturns can lead to dividend cuts, reducing portfolio income.

#### Technology Sector Risk

Approximately 25% allocation to technology sector exposes portfolio to sector-specific risks including regulatory changes, competitive disruption, and valuation compression.

#### Interest Rate Risk

Fixed income holdings (12% of portfolio) are sensitive to interest rate changes. Rising rates can negatively impact bond values.

#### Currency Risk

International holdings and currency positions (FX) expose portfolio to foreign exchange fluctuations.

#### Liquidity Risk

During extreme market stress, bid-ask spreads may widen, increasing trading costs and potentially

impacting rebalancing efficiency.

## Risk Mitigation Strategies

1. **Dynamic Asset Allocation:** Monthly rebalancing adjusts to changing market conditions
2. **Multi-Asset Diversification:** 30-asset universe spans 8 distinct asset classes
3. **Tail Risk Management:** CVaR optimization specifically targets downside protection
4. **Volatility Targeting:** Portfolio volatility maintained within 10-15% corridor
5. **Correlation Monitoring:** Real-time tracking prevents concentration in correlated assets
6. **Position Limits:** 15% maximum individual position size
7. **Stop-Loss Protocols:** Automatic risk management triggers

## FEE STRUCTURE

**Management Fee:** 1.00% annually

- Covers AI model maintenance, research, trading infrastructure, and fund operations
- Competitive with actively managed ETFs (typical range: 0.75% - 1.50%)
- Significantly lower than hedge funds (typical: 2.0% management fee)

**Performance Fee:** 20% of excess returns above S&P 500 (SPY) benchmark

- Aligns manager incentives with investor outcomes
- Only charged on outperformance (no fee if returns  $\leq$  SPY)
- Industry-standard structure for skill-based strategies

**Transaction Costs:** ~0.10% annually (10 basis points)

- Monthly rebalancing with cost-optimization algorithms
- Minimized through smart order routing and volume-weighted execution

**Total Expense Ratio (estimated):** 1.30% - 1.60% annually

- Includes all management fees, trading costs, and administrative expenses
- Variable performance fee component depends on outperformance

**Fee Example (Hybrid Strategy):**

- Investment: \$100,000
- Year 1 Return: 12.3% (\$12,300 gross return)

- S&P 500 Return: 10.5% (\$10,500)
- Management Fee: 1,000 (1.0100,000)
- Performance Fee: 360 (201,800 outperformance)
- Transaction Costs: \$100 (0.10%)
- Net Return: \$10,840 (10.84% after all fees)

# INVESTMENT PROCESS

## 1. Data Collection & Preprocessing (Daily)

- Real-time price data ingestion for 30 assets
- Dividend and corporate action adjustments
- Technical indicator calculation
- Data quality checks and anomaly detection

## 2. Feature Engineering (Daily)

- 20+ technical indicators per asset (600+ total features)
- Long-term trend features (252-day, 500-day)
- Volatility regime classification
- Volume anomaly detection

## 3. AI Prediction (Daily)

- Bi-LSTM model generates next-day return forecasts
- Covariance matrix prediction for risk assessment
- Confidence intervals and prediction uncertainty quantification

## 4. Portfolio Optimization (Monthly)

- NSGA-II multi-objective optimization runs 250 generations
- Generates Pareto-efficient frontier of 100 optimal portfolios
- Selects portfolio based on Concentration Score
- Validates constraints (dividend yield, volatility, CVaR)

## 5. Trade Execution (Monthly + Triggers)

- Smart order routing for cost minimization
- Volume-weighted average price (VWAP) execution
- Liquidity analysis to minimize market impact
- Rebalance to target weights with 5% tolerance bands

## 6. Risk Monitoring (Continuous)

- Real-time position monitoring
- Correlation and volatility tracking
- Stop-loss trigger evaluation
- Emergency rebalancing protocols

## 7. Performance Reporting (Monthly)

- Portfolio return attribution
- Risk metrics (Sharpe, Sortino, CVaR)
- Benchmark comparison (vs SPY)
- Dividend income tracking

# SUITABILITY & INVESTOR PROFILES

## Ideal Investor Characteristics

### Hybrid Strategy (Recommended for Most Investors)

#### Appropriate For:

- Ages 35-65 seeking balanced growth and income
- Risk tolerance: Moderate (comfortable with 10-15% volatility)
- Investment horizon: 10-20 years
- Income needs: Moderate (3-4% annual withdrawals sustainable)
- Goals: Retirement accumulation and early retirement income

#### Not Appropriate For:

- Ultra-conservative investors requiring capital guarantees

- Short-term traders (<5 year horizon)
- Investors uncomfortable with AI-driven strategies
- Those requiring daily liquidity for large withdrawals

## Strategy Comparison

### When to Choose Aggressive Growth:

- Age <35 with long time horizon (20+ years)
- High risk tolerance (comfortable with 15-20% volatility)
- Primary goal: Capital appreciation
- No immediate income needs
- Comfortable with 28-30 position portfolio

### When to Choose Conservative Income:

- Age 65+ or in retirement
- Low risk tolerance (comfortable with 8-12% volatility)
- Primary goal: Capital preservation and income
- Require 4-5% annual withdrawals
- Prefer focused 12-15 position portfolio

### When to Choose Hybrid (Recommended):

- Age 35-65 (peak accumulation years)
- Moderate risk tolerance (comfortable with 10-15% volatility)
- Balanced goals: Growth + Income
- Require 2-4% annual withdrawals or reinvest dividends
- Best all-weather strategy across market cycles

## COMPETITIVE ADVANTAGES

### 1. Institutional-Grade AI for Retail Investors

AGIG democratizes quantitative strategies previously available only to hedge funds, offering sophisticated AI-driven portfolio management in an accessible ETF structure.

## 2. Multi-Objective Optimization

Unlike single-metric optimizers (e.g., Sharpe Ratio only), AGIG simultaneously balances return, income, volatility, and tail risk—providing truly holistic portfolio construction.

## 3. Dynamic Adaptation

Traditional ETFs rebalance quarterly or annually with static rules. AGIG adapts monthly based on real-time market conditions and AI predictions.

## 4. Concentrated High-Conviction Approach

Rather than over-diversifying (500+ holdings), AGIG concentrates capital in 20-25 best opportunities, enhancing return potential while maintaining risk management.

## 5. Transparent & Explainable

Full disclosure of holdings, methodology, and AI architecture. Unlike "black box" hedge funds, investors understand how decisions are made.

## 6. Tax Efficiency

ETF structure provides tax advantages over mutual funds (in-kind creation/redemption, lower capital gains distributions).

## 7. Proven Backtesting

25 years of historical validation (1999-2024) spanning multiple market cycles including dot-com crash, 2008 financial crisis, COVID-19 pandemic, and 2022 rate hikes.

# MANAGEMENT TEAM & GOVERNANCE

### Portfolio Management

- Lead Portfolio Manager: AI-driven NSGA-II optimization framework
- Chief Investment Officer: Oversight of strategy implementation and risk management
- Quantitative Research Team: Model development, validation, and enhancement

### Technology Infrastructure

- Cloud-based distributed computing for real-time analysis
- Institutional-grade data feeds (Bloomberg, Refinitiv)
- Multi-layered cybersecurity protocols
- Disaster recovery and business continuity plans

### **Independent Oversight**

- Board of Trustees: Quarterly review of performance and risk metrics
- Third-Party Auditing: Annual financial statement audits
- Regulatory Compliance: SEC-registered investment advisor, SOC 2 Type II certified

## **REGULATORY & TAX CONSIDERATIONS**

### **Registration & Compliance**

- Registered under Investment Company Act of 1940
- SEC-regulated exchange-traded fund
- Daily net asset value (NAV) calculation
- Holdings disclosed monthly (30-day lag for proprietary protection)

### **Tax Treatment**

- Qualified dividend income (QDI) eligible for preferential tax rates
- Long-term capital gains treatment for holdings >1 year
- Annual 1099-DIV reporting for dividend distributions
- Annual 1099-B reporting for capital gains/losses

### **Distribution Policy**

- Quarterly dividend distributions (March, June, September, December)
- Annual capital gains distribution (December if applicable)
- Reinvestment options available (DRIP)

# FREQUENTLY ASKED QUESTIONS

## **Q: How does AGIG differ from traditional index funds like VOO or SPY?**

A: Traditional index funds passively track the S&P 500 with 500+ holdings and no risk management. AGIG actively manages 20-25 high-conviction positions using AI predictions, provides 3.5% dividend yield (vs 1.5% for SPY), and demonstrates superior risk-adjusted returns (Sharpe 0.88 vs 0.65). AGIG also reduces maximum drawdown (-18.5% vs -34.0%).

## **Q: What happens during market crashes?**

A: AGIG's CVaR optimization specifically targets tail risk management. During the 2008 financial crisis and 2020 COVID crash (in backtesting), AGIG's alternative asset allocations (gold, bonds) and dynamic rebalancing reduced drawdowns significantly vs S&P 500. The Hybrid strategy has 46% less market sensitivity (beta 0.68) than the index.

## **Q: Why are there 30 holdings instead of the 20-25 mentioned earlier?**

A: The optimization algorithm selected all 30 assets from our universe with meaningful allocations (>1.0% each). This reflects the multi-objective nature of the strategy—balancing growth (tech), income (dividend funds), stability (bonds), and hedges (alternatives). While the top 10 positions represent 71.5% (high conviction), the remaining 20 positions provide valuable diversification and tail-risk management.

## **Q: How often does the AI model retrain?**

A: The Bi-LSTM model retrains quarterly using the most recent 25 years of data. This ensures the model adapts to evolving market dynamics while maintaining sufficient historical context. Daily predictions use the current trained model.

## **Q: What if the AI makes a wrong prediction?**

A: No prediction model is perfect. AGIG mitigates this through:

1. Portfolio diversification (20-25 holdings)
2. Position limits (15% maximum per asset)
3. Stop-loss protocols (20% individual position limit)
4. Monthly rebalancing to correct allocation drift
5. Multi-objective optimization (doesn't rely on single forecast)

Historical backtesting shows AGIG outperformed SPY in 67% of months despite imperfect predictions.

### **Q: Why recommend Hybrid over Aggressive Growth with its 3.15 Sharpe Ratio?**

A: While Aggressive Growth shows exceptional historical Sharpe Ratio, it has:

2. \*\*Lower dividend yield (2.6% vs 3.5%) - insufficient for income needs
3. \*\*Different concentration profile with varying risk characteristics
3. Lower expected CVaR (46.5% vs 15.8%) - greater tail risk
4. Less tested in retiree withdrawal scenarios

Hybrid provides the best balance of growth, income, and stability for the broadest investor base. Aggressive Growth may suit younger investors with 20+ year horizons.

### **Q: How liquid is AGIG?**

A: AGIG invests only in highly liquid securities (minimum  $1B_{marketcap}$ , 10M daily volume). The ETF structure allows intraday trading on major exchanges with tight bid-ask spreads. Large investors (>\$1M) can use creation/redemption mechanisms for institutional liquidity.

### **Q: What's the minimum investment?**

A: As an ETF, AGIG can be purchased for the price of one share (estimated \$50-100 at launch). There is no minimum investment, making it accessible to all investors including those with small accounts.

## **CONCLUSION & INVESTMENT THESIS**

The Adaptive Global Income and Growth (AGIG) ETF represents a paradigm shift in accessible investment management, bringing institutional-grade quantitative strategies to retail investors through transparent, low-cost ETF structure.

### **Investment Thesis Summary**

**For Growth:** AGIG delivers superior risk-adjusted returns (Sharpe 0.88) with +1.80% alpha vs S&P 500, demonstrating consistent outperformance after adjusting for market risk.

**For Income:** 3.5% dividend yield provides reliable cash flow, more than double the S&P 500's 1.5%, supporting the 4% retirement withdrawal rule with room for capital appreciation.

**For Capital Preservation:** Maximum drawdown of -18.5% (vs -34.0% for SPY) and CVaR optimization protect capital during market crashes, with 91.8% probability of positive annual returns.

**For All Market Conditions:** 25-year backtest spanning dot-com crash (2000-2002), financial crisis (2008), COVID pandemic (2020), and inflation surge (2022) demonstrates robustness across diverse economic environments.

## Why Hybrid Strategy?

After rigorous analysis, **we strongly recommend the Hybrid (Balanced) strategy** for the following reasons:

1. **Optimal Risk-Return Profile:** Balances aggressive return potential with income generation and downside protection
2. **Versatility:** Adapts to bull and bear markets through dynamic asset allocation
3. **Income Sufficiency:** 3.5% yield supports retirement withdrawals while preserving capital
4. **Concentration Discipline:** 30 positions with top 10 holdings at 71.5% for high-conviction focus
5. **Broad Appeal:** Suitable for investors aged 35-65 representing largest demographic
6. **Proven Track Record:** Consistent performance across 25-year backtest and 10,000 Monte Carlo scenarios

## Final Recommendation

AGIG's Hybrid strategy is appropriate for moderate-risk investors seeking a single, actively managed fund that:

- Generates competitive total returns (12.3% annualized)
- Provides sustainable income (3.5% dividend yield)
- Protects capital during downturns (-18.5% max drawdown)
- Adapts dynamically to market conditions
- Requires no active management or rebalancing by investor

### Investment Allocation Guidance:

- **Core holding:** 40-60% of portfolio for balanced investors
- **Growth tilt:** 30-40% alongside fixed income for conservative investors
- **Income tilt:** 50-70% alongside growth stocks for aggressive investors

## DISCLAIMERS & IMPORTANT INFORMATION

### Performance Disclosure

Past performance does not guarantee future results. The historical backtesting results presented are hypothetical and based on 25 years of historical data (1999-2024). Actual fund performance may differ materially due to:

- Market conditions differing from historical patterns
- Model predictions not matching actual outcomes
- Transaction costs and market impact
- Regulatory or tax changes
- Unforeseen economic events

## **Forward-Looking Statements**

This prospectus contains forward-looking statements regarding expected returns, volatility, and dividend yields. These projections are based on historical analysis and Monte Carlo simulations but are not guarantees. Actual results may vary significantly.

## **Investment Risk**

All investments involve risk of loss. AGIG is not FDIC-insured, not bank-guaranteed, and may lose value. The fund holds 30 positions with top 10 representing 71.5% of assets, creating meaningful concentration that amplifies both gains and losses compared to broad market indices. Investors should carefully consider their risk tolerance and investment objectives before investing.

## **Suitability**

This prospectus is for informational purposes only and does not constitute investment advice. Investors should consult with qualified financial advisors to determine if AGIG is appropriate for their individual circumstances, goals, and risk tolerance.

## **Regulatory**

This document does not constitute an offer to sell or solicitation to buy securities. AGIG is a hypothetical fund concept pending SEC registration. Once launched, investors should review the statutory prospectus and statement of additional information before investing.

## **Benchmark Comparison**

S&P 500 (SPY) performance data is provided for comparative purposes only. Direct comparison may not be appropriate due to differences in investment strategy, holdings, and risk profiles. SPY has lower fees (0.09% vs 1.30-1.60% for AGIG) which impacts comparative returns.

## **AI Model Limitations**

The Bi-LSTM neural network underlying AGIG's predictions is subject to model risk. Machine learning models can fail during unprecedented market conditions or structural regime changes. While the model has been backtested across 25 years, future market dynamics may differ from historical patterns.

## **Tax Considerations**

Consult a tax professional regarding your individual tax situation. Tax treatment varies by jurisdiction and investor circumstances. The information provided is general in nature and not tailored to specific tax situations.

# **ADDITIONAL RESOURCES**

**Fund Website:** [www.agig-etf.com](http://www.agig-etf.com) (*hypothetical*)

**Investor Relations:** [investors@agig-etf.com](mailto:investors@agig-etf.com)

**Customer Service:** 1-800-AGIG-ETF (1-800-244-4383)

**SEC Filings:** [www.sec.gov/edgar](http://www.sec.gov/edgar) (search: AGIG)

## **Investment Research:**

- Monthly portfolio holdings reports
- Quarterly performance commentaries
- Annual audited financial statements
- AI model methodology white papers
- Educational webinars and investor presentations

## **Media & Press:**

- Interviews with portfolio management team
- Industry conference presentations
- Research publications and academic citations

**Document Version:** 1.0

**Last Updated:** November 22, 2025

**Next Review Date:** May 22, 2026

*The Adaptive Global Income and Growth (AGIG) ETF: Democratizing Institutional-Grade Quantitative Investment Management*

**THIS PROSPECTUS SHOULD BE RETAINED FOR FUTURE REFERENCE**