



# QUANT ATLAS

DECODE THE CHAOS.

# INTRODUCTION

Financial markets generate an overwhelming amount of information, yet actionable insight remains rare. Price movements are driven by complex interactions between structure, regime, volatility, and probability, making traditional single-indicator approaches insufficient in modern markets. **Quant Atlas** was created to address this gap.

**Quant Atlas** is a quantitative research platform designed to transform raw market data into structured intelligence and forecasts. Built at the intersection of financial theory, statistical modeling, and computational research, the platform integrates multiple independent analytical models to study markets from complementary perspectives rather than relying on isolated signals.

At its core, **Quant Atlas** combines six specialized research engines focused on market price and volatility forecasting, pattern recognition, trend exhaustion analysis, statistical validation, and probabilistic market behavior. Each model operates independently while contributing to a unified analytical framework, allowing market conditions to be evaluated through convergence.



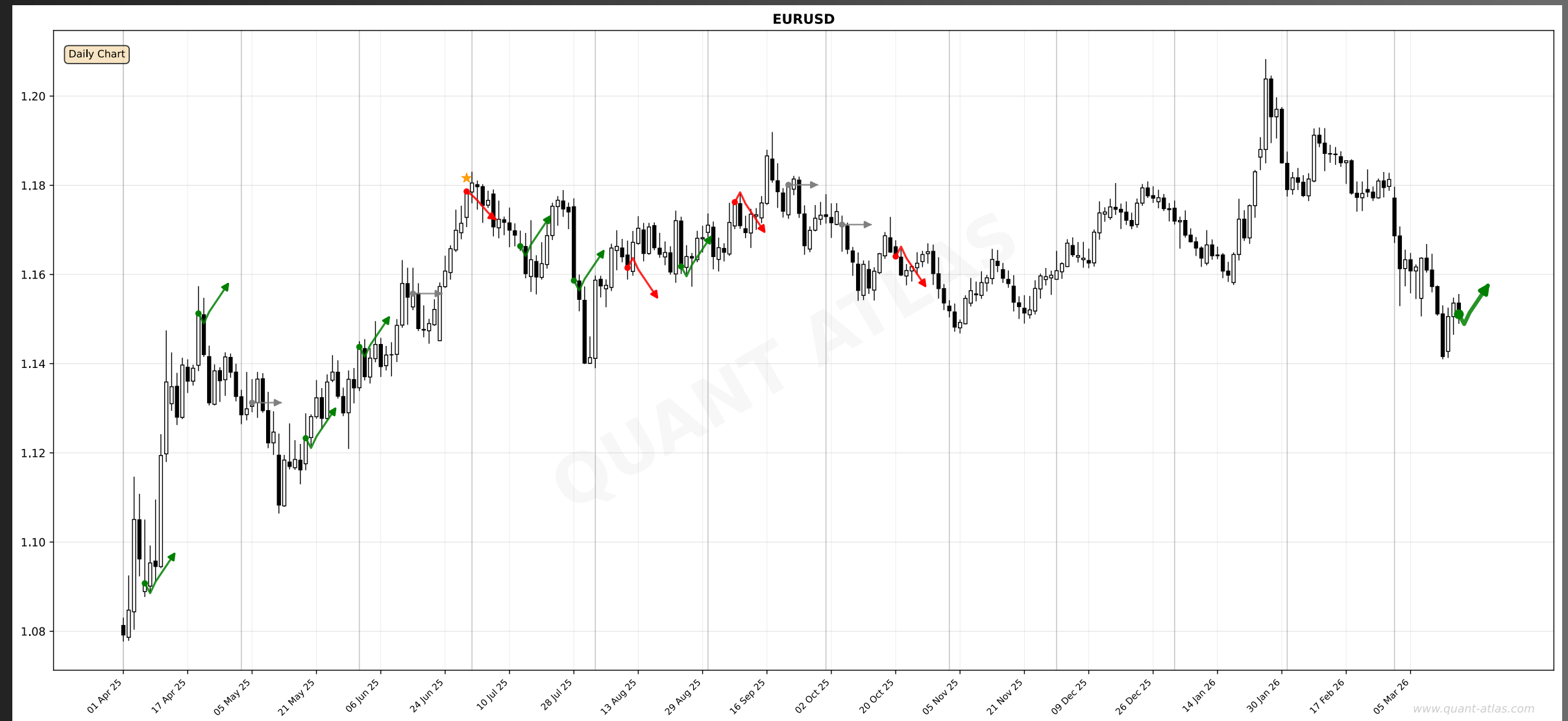
**Cerberus** is the primary forecasting model within **Quant Atlas**, designed to estimate the expected directional move of assets. It serves as the platform's central reference for directional forecasting.

The model combines three machine learning systems, supported by an additional directional validation layer, all trained on transformed and stationary data. Engineered and smoothed features are used to capture market structure while reducing noise and instability.


**Cerberus** operates under a strict walk-forward analysis framework with leak control and continuous bias monitoring to ensure statistical integrity and realistic evaluation. Forecasts are produced only when predefined validation rules are satisfied.

# THE CERBERUS MODEL

THE MAIN MARKET PRICE FORECASTING ENGINE



The model has three types of signals:

- **Normal consensus:** This is the minimum required threshold to validate a directional view.
- **Good consensus:** This forecast unites a number of conditions that increase the conviction.
- **High consensus:** This forecast has all the conditions required to deliver the highest conviction. It's accompanied by a  symbol on the chart.

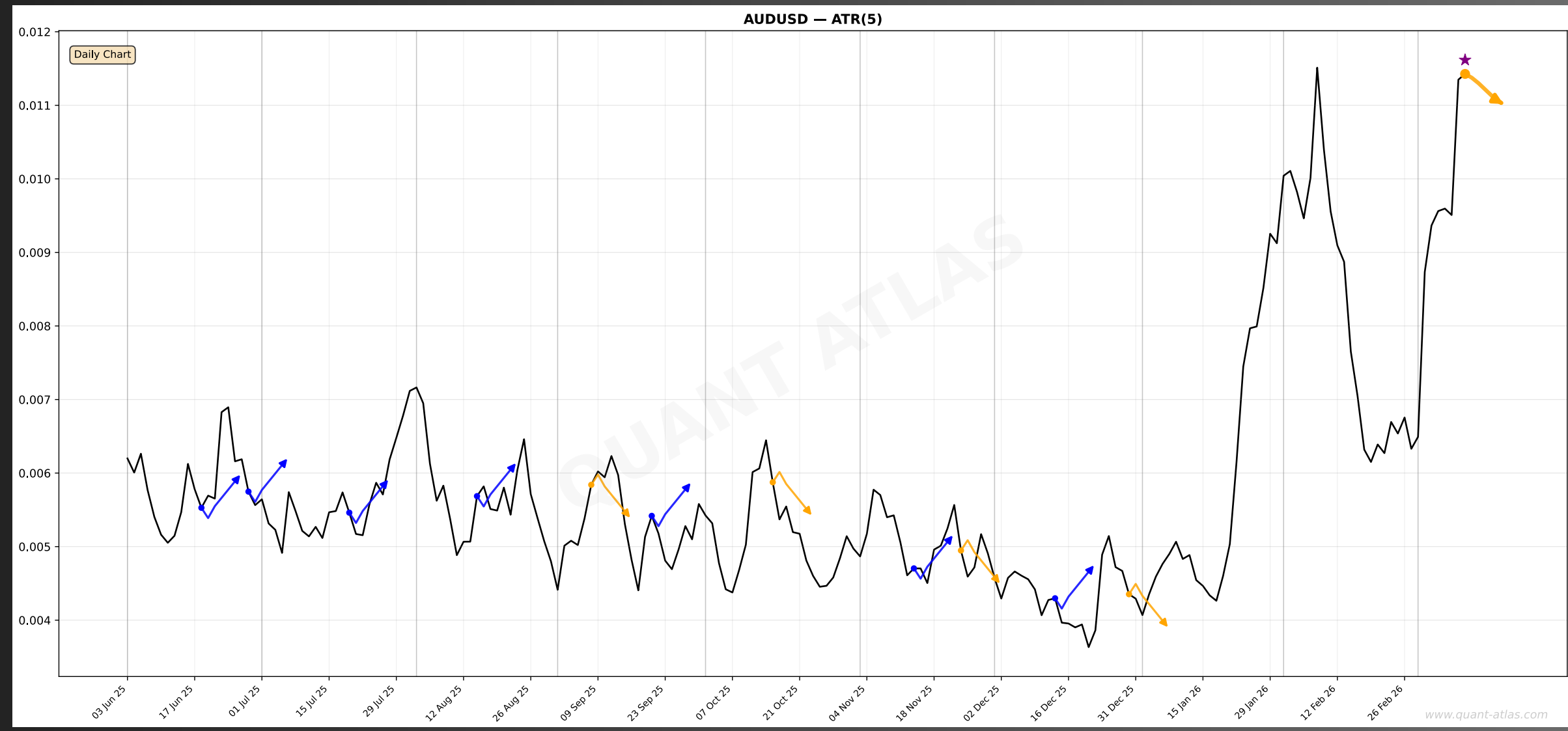
# THE ECHO MODEL

## THE VOLATILITY FORECASTING ENGINE


**Echo** extends the **Cerberus** research framework into the study of market volatility. Instead of forecasting price direction, the model projects the expected evolution of the Average True Range (ATR), providing a forward view of market activity and risk conditions.

Using the same strict quantitative standards, **Echo** applies machine learning techniques to transformed and stationary volatility data enriched with advanced engineered features. These include confirmed leak-free swing points, volatility-of-volatility measurements, and proprietary indicators.

The primary objective of **Echo** is risk management. While not a directional model, **Echo** can provide a secondary market signal, as volatility and price tend to exhibit an inverse relationship under certain market conditions.



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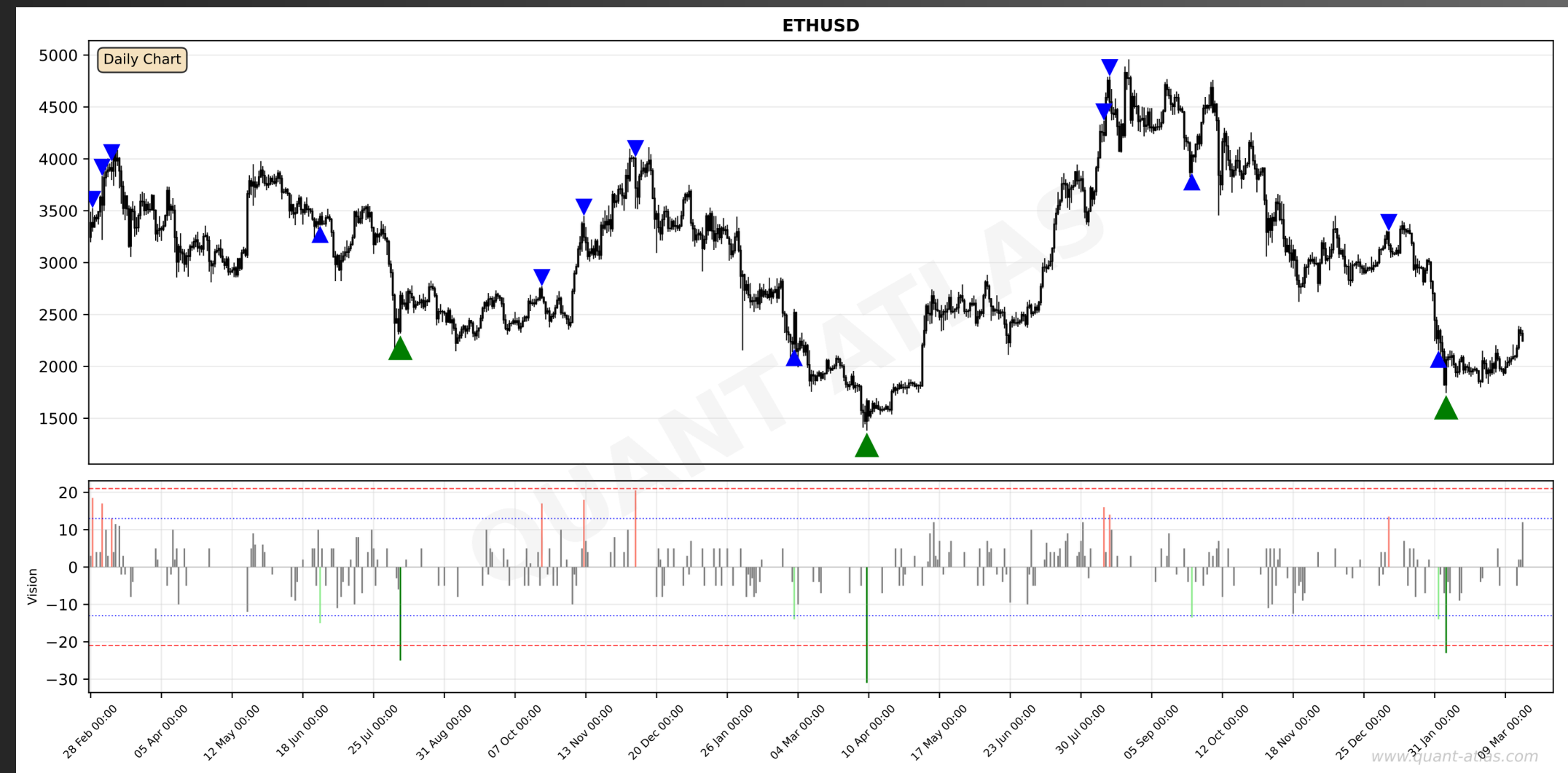
**Vision** is **Quant Atlas'** smart composite, designed to synthesize a wide spectrum of market information into clear directional signals. **Vision** combines more than 60 indicators, analytical techniques, and engineered features into a unified decision framework.

Built across multiple analytical dimensions including trend, momentum, volatility, and timing, **Vision** aggregates both classical quantitative tools and proprietary indicators from K's Collection, creating a layered view of market behavior rather than relying on isolated signals.

Unlike **Cerberus** and **Echo**, **Vision** delivers signals with no expected forecasting horizon.

# THE VISION MODEL

THE MULTI-FACTOR SMART COMPOSITE



The model has two types of signals:

- **Good consensus:** This forecast unites a number of conditions that increase the conviction. It's represented by blue arrow signals.
- **High consensus:** This forecast has all the conditions required to deliver the highest conviction. It's represented by green and red arrow signals.

**Freyja** is **Quant Atlas'** pattern recognition engine, designed to identify potential reversal opportunities across equities through systematic analysis of price structure and timing behavior.

The model detects timing-based market patterns by combining price action, temporal dynamics, and price-derived indicators to uncover conditions where trends show signs of exhaustion or structural instability.

Unlike **Cerberus** and **Echo**, **Freyja** delivers signals with no expected forecasting horizon.

# THE FREYJA MODEL

## THE PATTERN RECOGNITION STOCK SCREENER



The model has three types of signals:

- **Normal consensus:** This is the minimum required threshold to validate a directional view. It's represented by black arrows.
- **Good consensus:** This forecast unites a number of conditions that increase the conviction. It's represented by blue arrows.
- **High consensus:** This forecast has all the conditions required to deliver the highest conviction. It's represented by orange arrows.

**Yubel** is **Quant Atlas'** trend exhaustion engine, designed to identify moments when market trends begin to lose strength and approach structural fatigue.

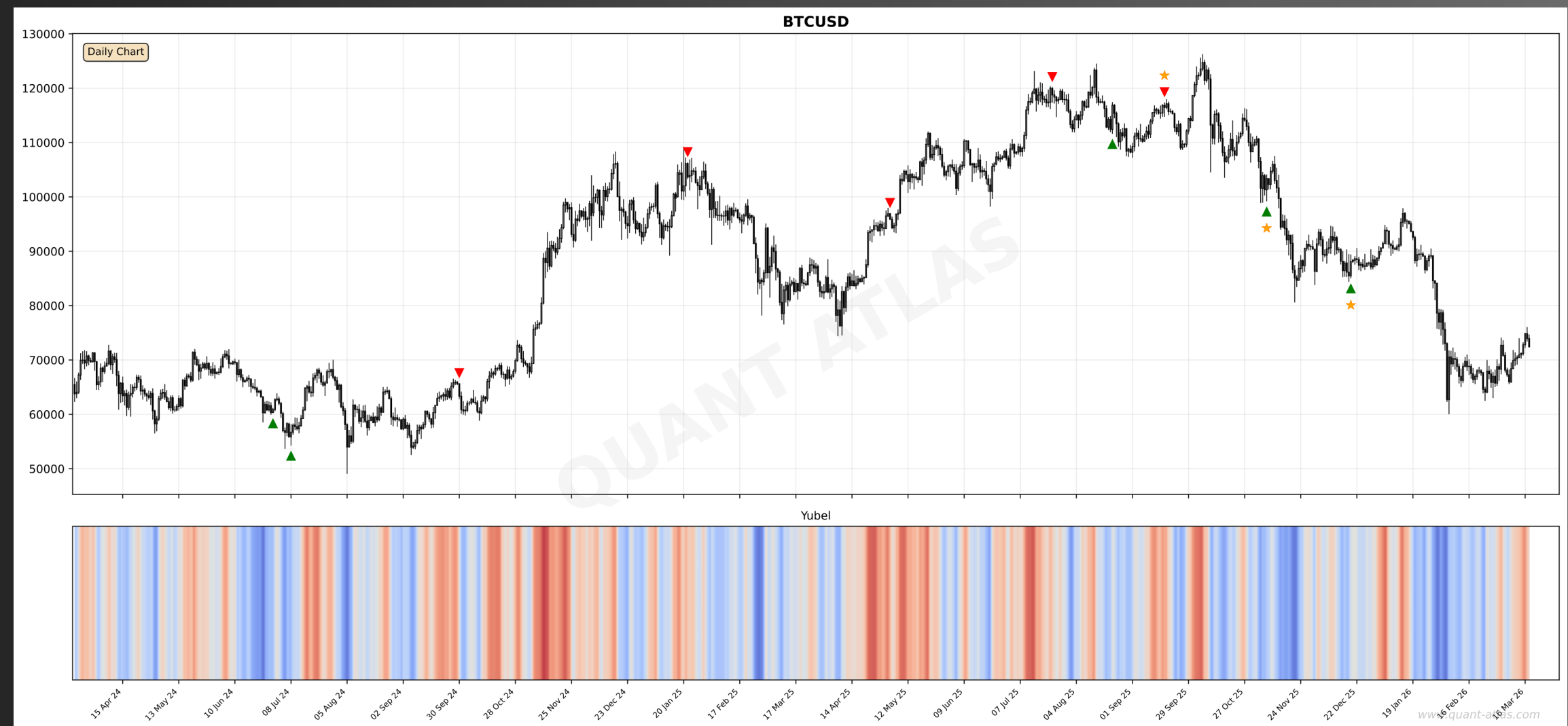
The model analyzes price behavior and derived statistical conditions to detect exhaustion phases within ongoing trends. Rather than forecasting direction directly,

**Yubel** focuses on recognizing environments where momentum weakens, increasing the probability of stagnation, consolidation, or local market turning points.

**Yubel** helps anticipate transitions between expansion and pause phases in market movement. This information supports timing refinement, risk reduction, and confirmation of signals generated by other **Quant Atlas** models.

# THE YUBEL MODEL

THE TREND EXHAUSTION DETECTION MODEL



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- **High consensus:** This forecast has all the conditions required to deliver the highest conviction. It's accompanied by a symbol on the chart.

# PERFORMANCE & MODEL VALIDITY

All models are assessed using **walk-forward analysis**, where training and testing continuously evolve through time on unseen data. Strict **leak control** mechanisms prevent forward-looking information from entering the modeling process, while ongoing bias monitoring ensures that results remain statistically valid across changing market regimes.

Performance metrics are further refined through deflated evaluation methods, reducing the impact of randomness, data mining effects, and over-optimistic backtest outcomes. These adjustments aim to ensure that reported results reflect realistic expectations rather than theoretical maxima.

**Quant Atlas** employs a consensus framework, where signals are validated through agreement across independent models, effectively creating an ensemble of ensembles. This approach reduces reliance on any single methodology and strengthens robustness through convergence.

Continuous overfitting control governs feature construction, validation thresholds, and model acceptance rules, ensuring that predictive power arises from persistent market structure rather than noise or coincidence.

Together, these principles ensure that **Quant Atlas'** performance reflects disciplined quantitative research grounded in realism, robustness, and reproducibility.

WHERE DATA BECOMES **STRUCTURE**,  
AND STRUCTURE BECOMES **INSIGHT**.



# USEFUL INFORMATION AND FORECAST DELIVERY

There are two main horizons for the forecasts: **Weekly views** are published on Sundays and **Intraday views** are published every week day around 12:00 PM - CET time (6:00 AM EDT). Weekly views have a forecasting horizon of **5 days** while intraday views have a forecasting horizon of **8-12 hours**.

The charts are refreshed to account for new price action. Any price action that occurs after the forecast is blue. Charts have an **original publication date** and a **refresh date** seen on the bottom.

Every Sunday, you will find a weekly **Spotlight** document on the website published right after the weekly views are made available. It summarizes the main views from the different models. This is a major time saver for busy traders and portfolio managers.

Every week day, you will also find an intraday version of the **Spotlight** on the website published after the intraday views are posted. The **Spotlight** can be downloaded in PDF.

# FAQ

**Q: Do you offer other types of subscriptions?**

Yes, in addition to the Premium and Lite subscriptions we offer more specialized and advanced types of subscriptions.

Some of the subscriptions we offer are Global Crypto Package, Global FX Package, and Global Stocks Package. To know more about these subscriptions, you may visit the Website.

**Q: Are the prices per person or per desk?**

The prices are per person. However, special discounts apply for desks of more than 3 persons.

**Q: Do you offer a Free Trial?**

Yes, we offer a 21-day Free Trial for monthly subscriptions. This includes the Premium and Lite subscriptions. Users may cancel before their billing date (a reminder e-mail will be sent).

**Q: Do you offer group pricing?**

Yes, more people on the same plan will result in a decreased per-person cost. For more information on this, you may contact us through the Contact form on the website.

**Q: How to get the best of Quant Atlas?**

Ideally, you should look for high consensus forecasts across different models. You can use the Spotlight document or simply use the filters to sort by conviction. A good framework example is to find a high consensus forecast of a market on a model with at least a confirmation (same direction) from another model.

**Q: How are refunds processed?**

Refund details can be found in the document Terms & Conditions you receive by e-mail upon subscribing.

# CONTACT US

You may reach us through the following means for any type of questions you have.

 [www.quant-atlas/contact](http://www.quant-atlas/contact)

 [contact@quant-atlas.com](mailto:contact@quant-atlas.com)

