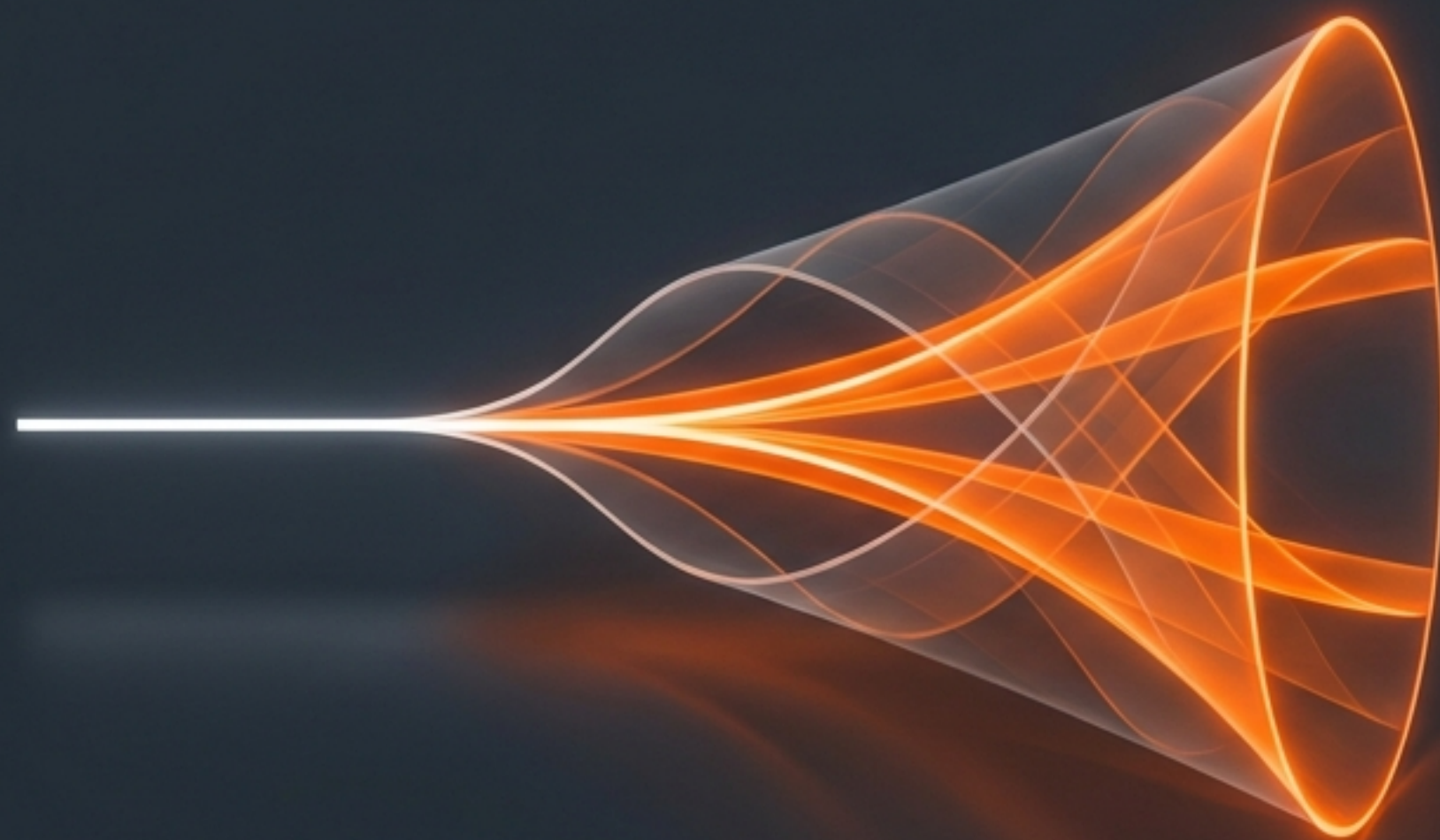


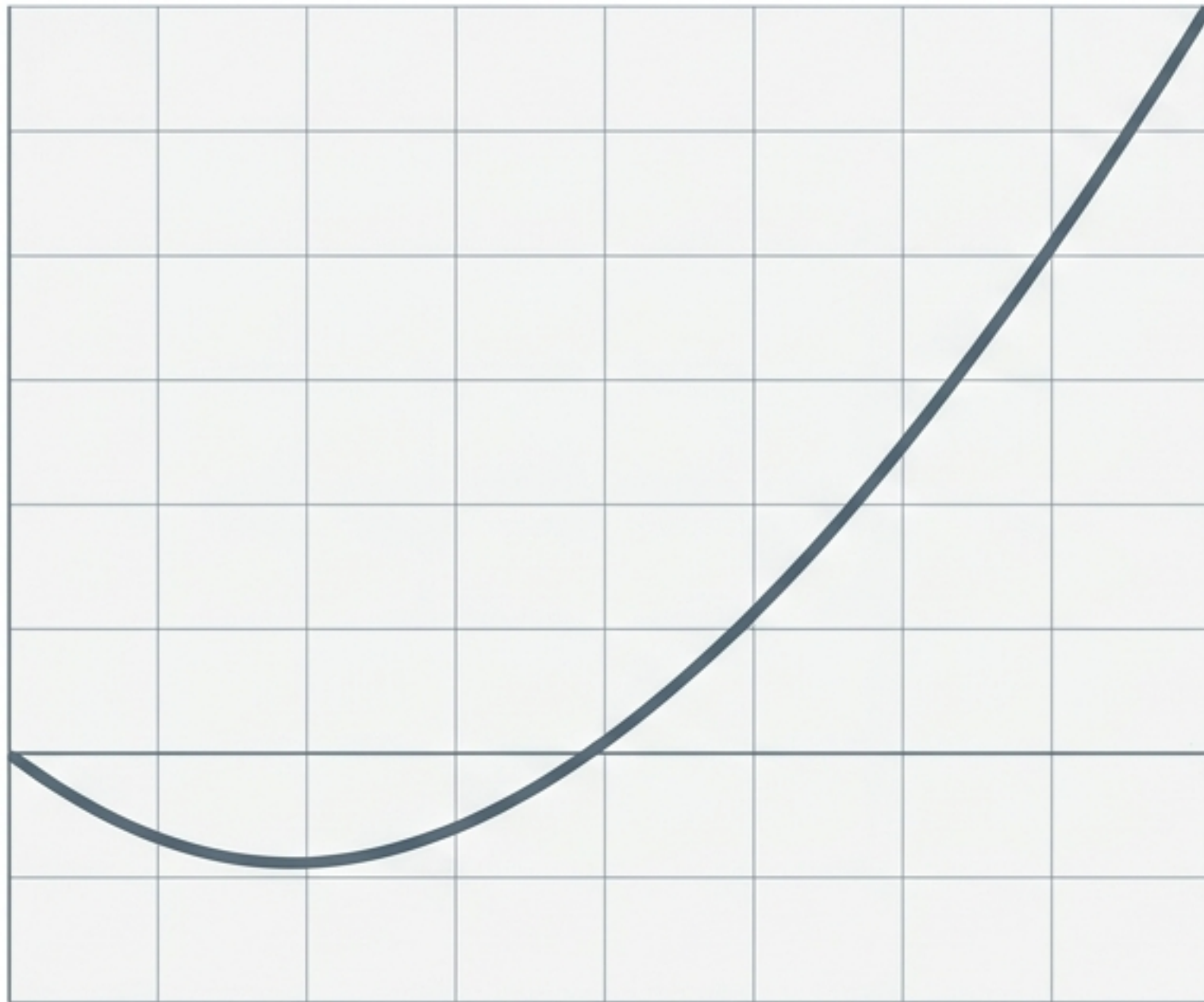


Precision Through Probability

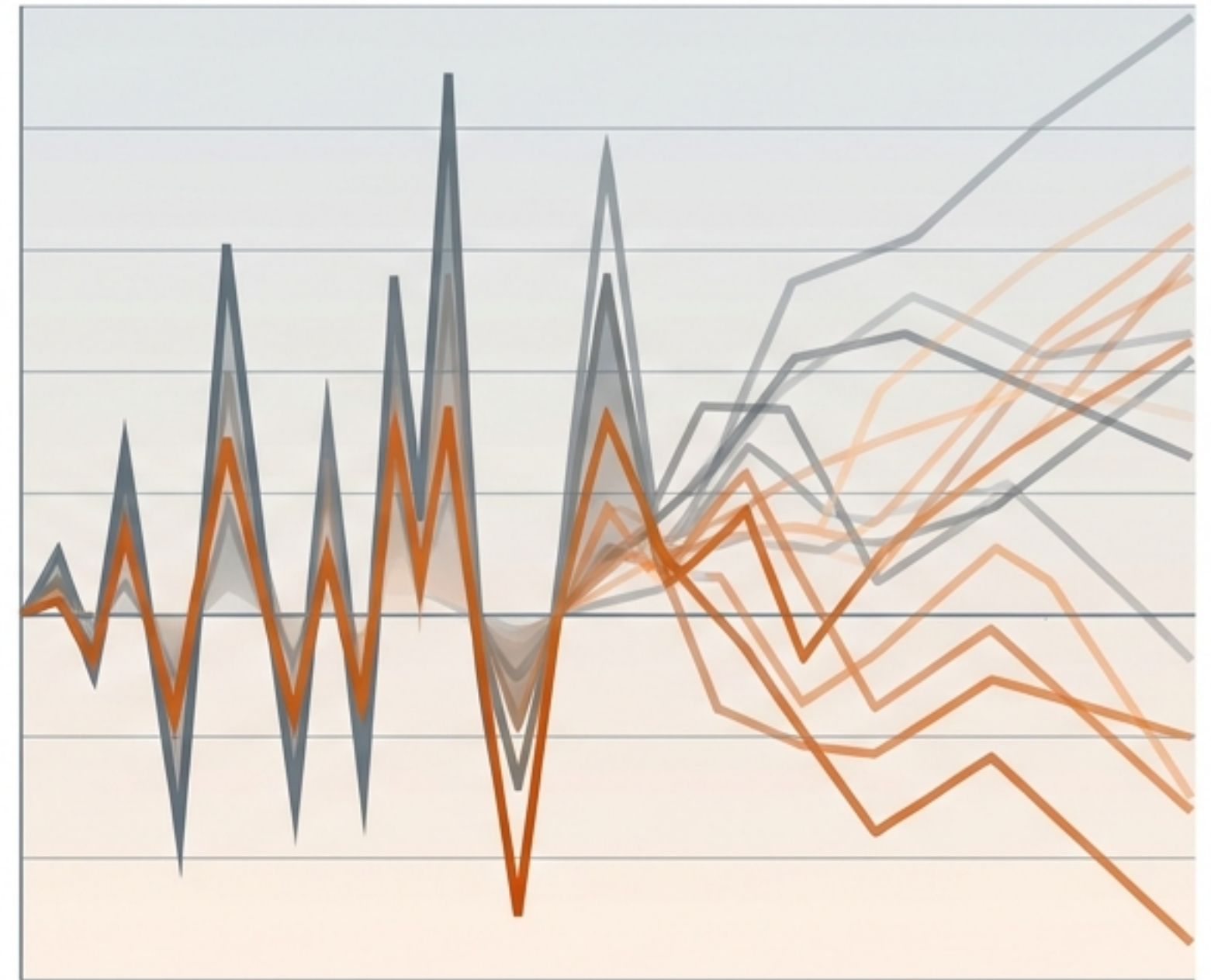
The evolution of private asset cash flow forecasting.

A proprietary framework by Aspequity.

The Deterministic Illusion: Expecting public-market predictability

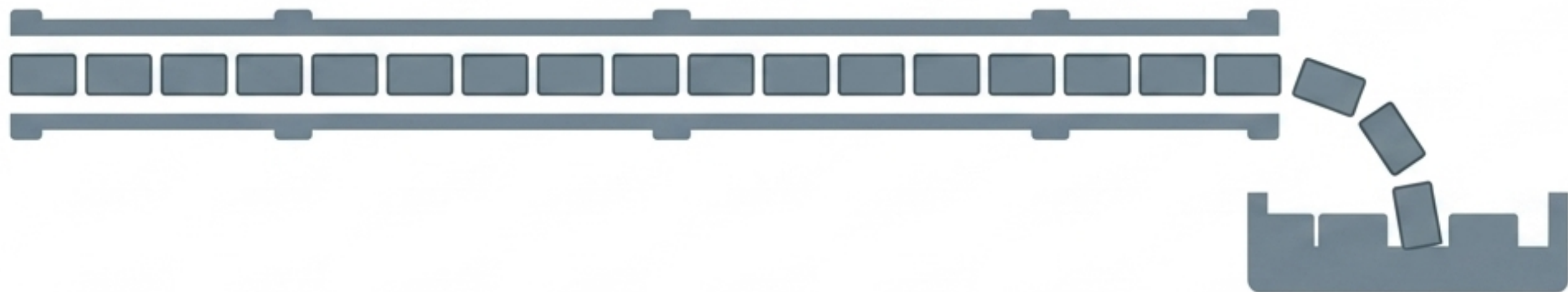


The Private Market Reality: Illiquidity, varying realization paths, and GP discretion



The traditional 'average cumulative cash flow' follows a deterministic pattern, but relying on a single mean line exposes institutional portfolios to severe liquidity mismatches.

Generation I (Indirect)	Generation II (Direct Deterministic)	Generation III (Direct Probabilistic)
Historical IRR Models (e.g., Kaplan, Schoar)	The Yale Model (Takahashi & Alexander)	The BOSTON Model (Aspequity)
Mechanism: Indirect (formulaic percentage of IRR).	Mechanism: Direct cash flow modeling.	Mechanism: Direct cash flow + infusing underlying asset volatility.
Liquidation Assumption: Generic and static.	Liquidation Assumption: Static rate of deal liquidation.	Liquidation Assumption: Dynamic, GP-controlled liquidation.
Output: Deterministic mean line.	Output: Deterministic independent contribution/distribution curves.	Output: Probabilistic cash flow distributions.



Legacy Assumption:
Underlying deals become ripe for liquidation at a fixed, static rate over time.

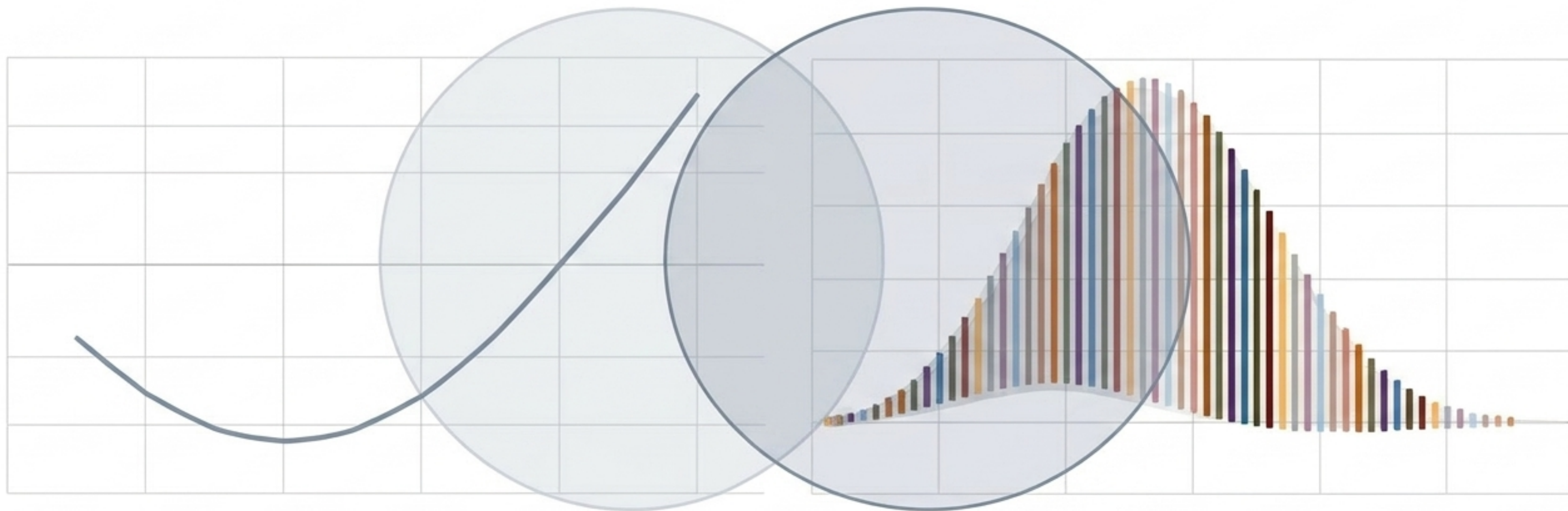


The BOSTON Reality:
General Partners control and adjust the rate at which they put deals to market based on macro conditions.

By parameterizing this additional degree of freedom, the Bow-Speed Time-Option Normalized (BOSTON) model mirrors observable fund behavior rather than academic theory.

Uncertainty is not a flaw in the forecast; it is an economic reality that must be quantified.

aspequity



To generate a true picture of investment performance, BOSTON extracts volatility forecasts from underlying investments using best-of-breed risk models, and infuses this data directly onto expected cash flow schedules.

The 'average' cash flow pattern is replaced by a high-fidelity probability distribution of actual outcomes.

boston

The Scale of Precision.



10²¹

The Engine

BOSTON operates within EXPLO, Aspequity's AICPA/IPEV-compliant risk-aware valuation model.

The Calculation

Instead of drawing a single trendline, the engine explores a sextillion (10^{21}) possible future realization paths for every single investment.

The Speed

This complex combinatorial analysis is executed in a matter of seconds, providing unparalleled insight into potential cash flow divergence.

The LP Perspective (Liabilities & Surplus)

Goal: Avoiding unplanned liquidity shortages.

BOSTON Application:

- Quantifies the precise magnitude of potential cash flow shortages relative to future liabilities—pension outlays, redemptions, capital expenditures, and unfunded commitments in other partnerships.

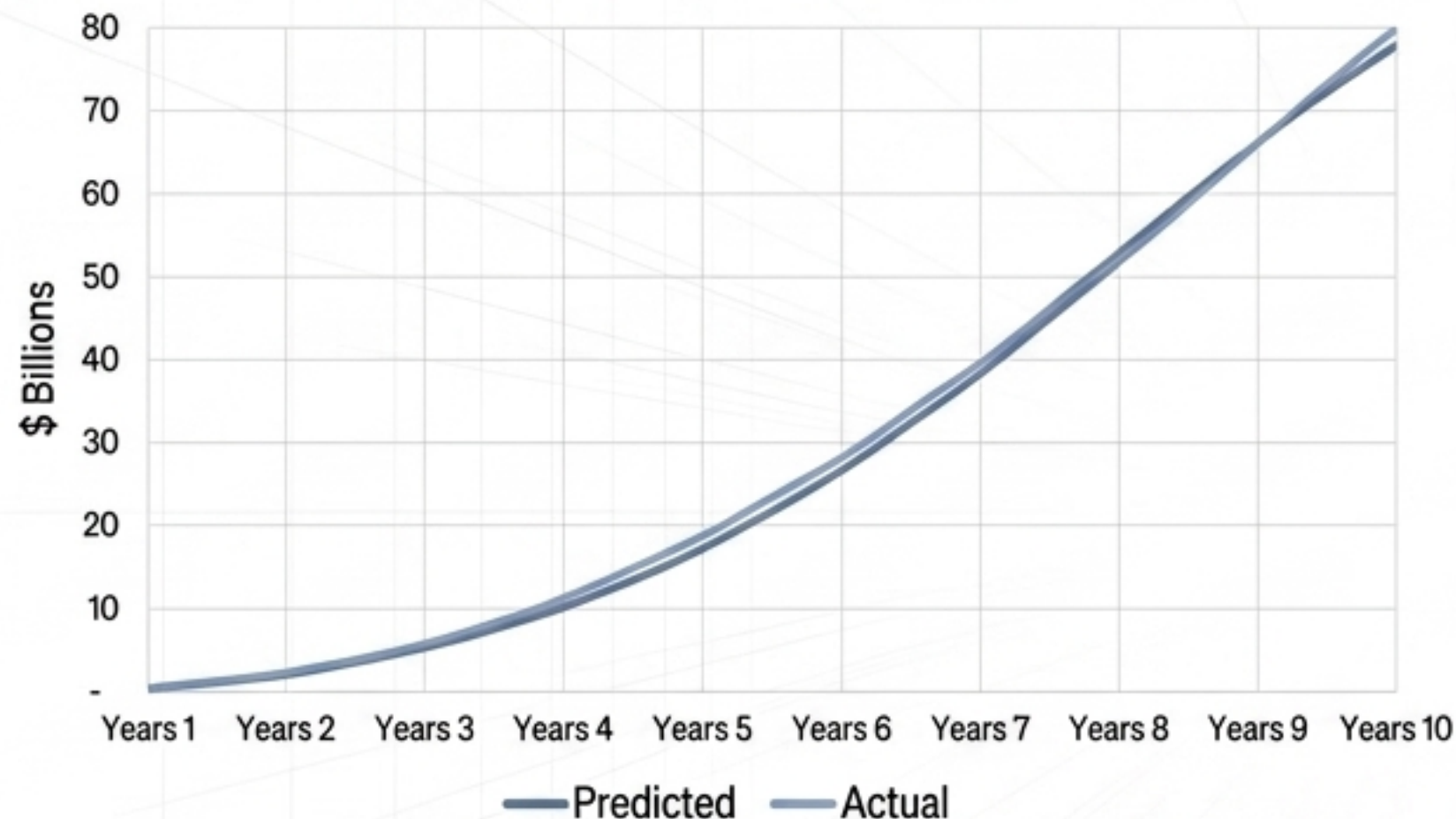
The GP Perspective (Capital Calls & Deal Flow)

Goal: Optimizing capital allocation.

BOSTON Application:

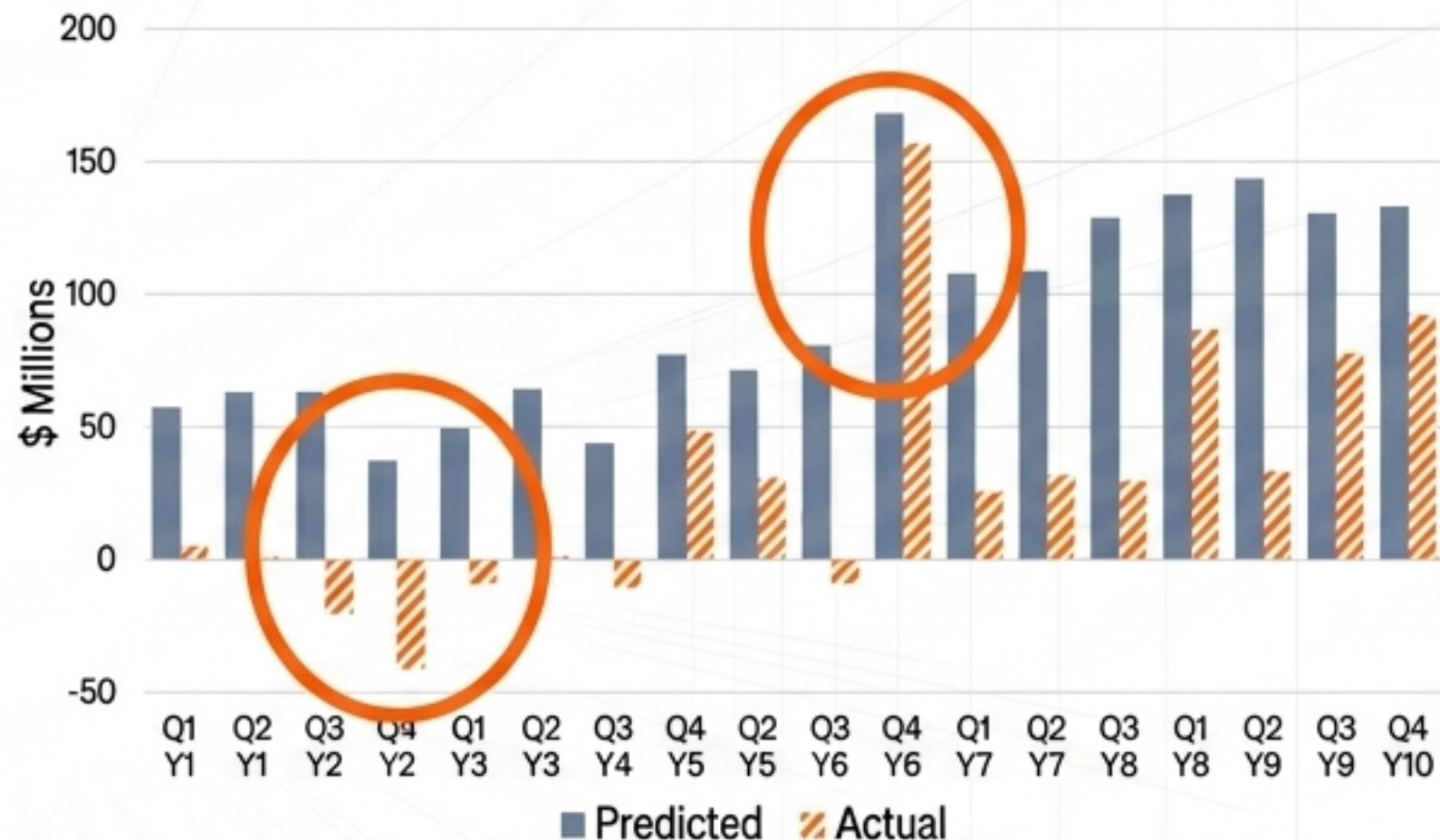
- Predicts both the amount and the variation of future distributions.
- Allows GPs to optimize capital call schedules, plan firm resources efficiently, and execute deal flow without over-leveraging.

Chart A (Cumulative - The Illusion)



Cumulative cash flow comparisons hide underlying volatility because model errors cancel out and diversify over the lifetime of the fund due to secular time trends.

Chart B (Periodic - The Uncompromising Metric)

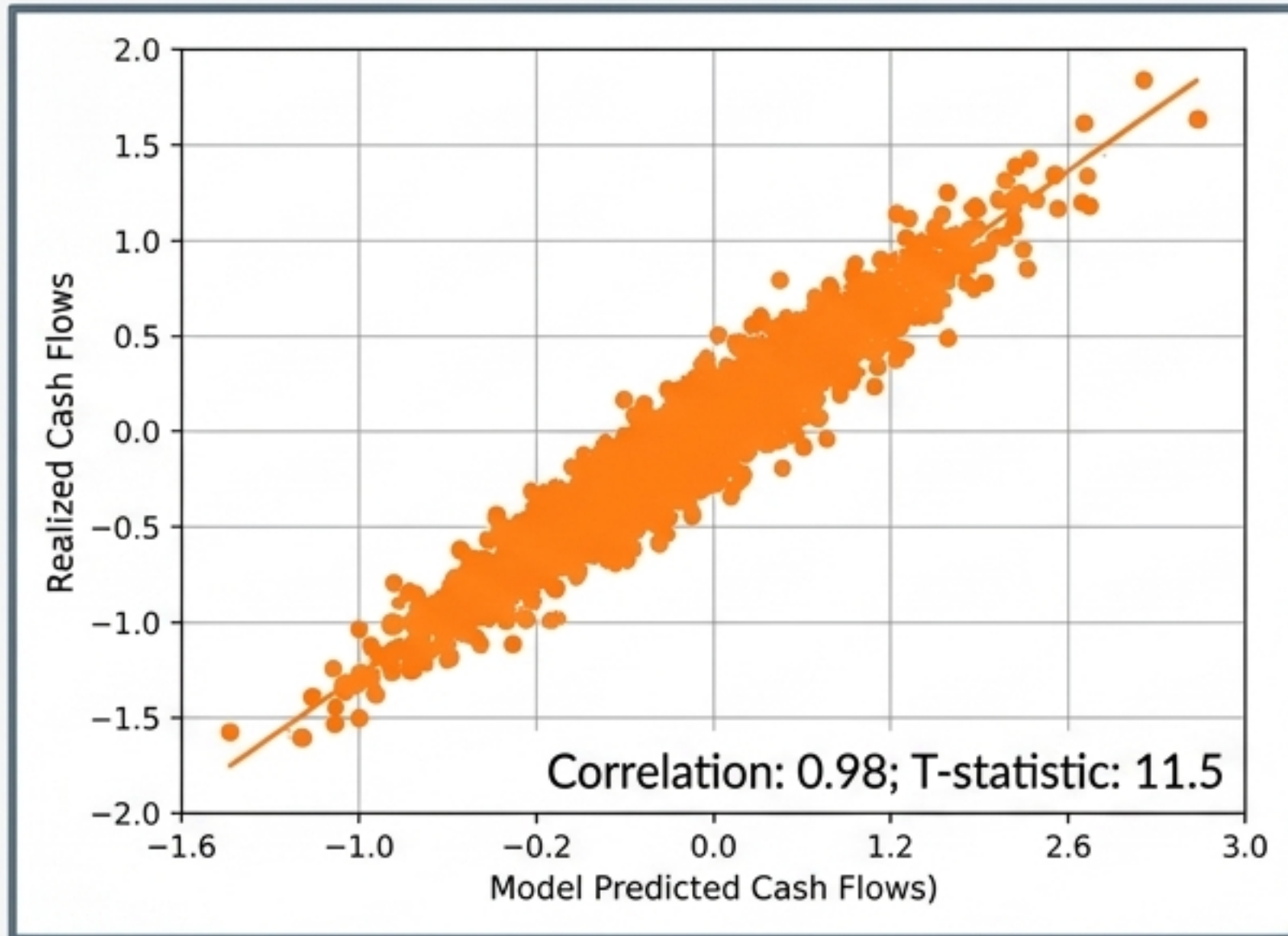


Periodic forecasting exposes the truth. Investors experience liquidity crunches in specific periods—not over 10-year cumulative averages.

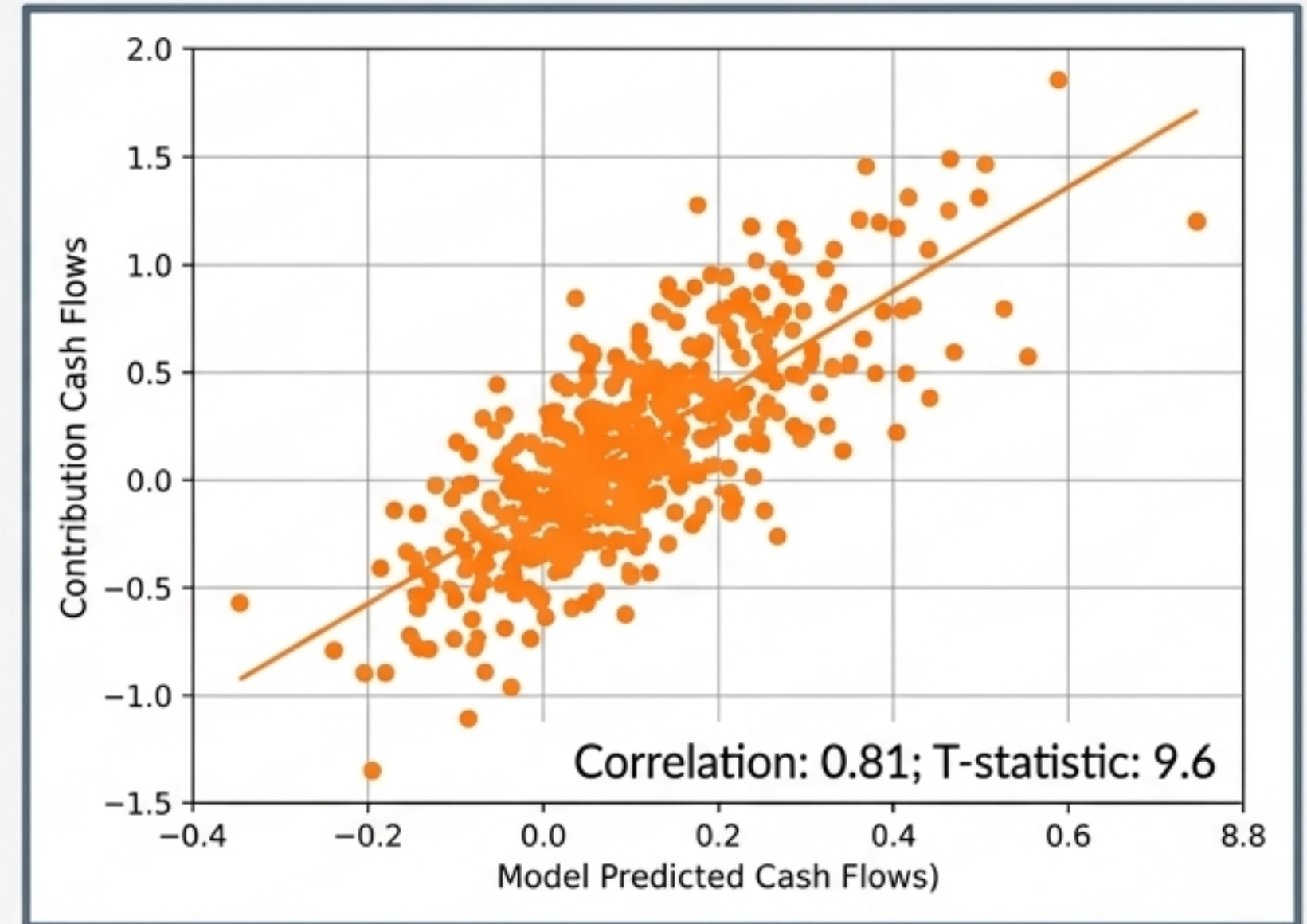
A forecasting model must be judged on its explanatory power over periodic distributions and contributions.

Out-of-sample resilience over in-sample over-fitting.

Fund Distributions

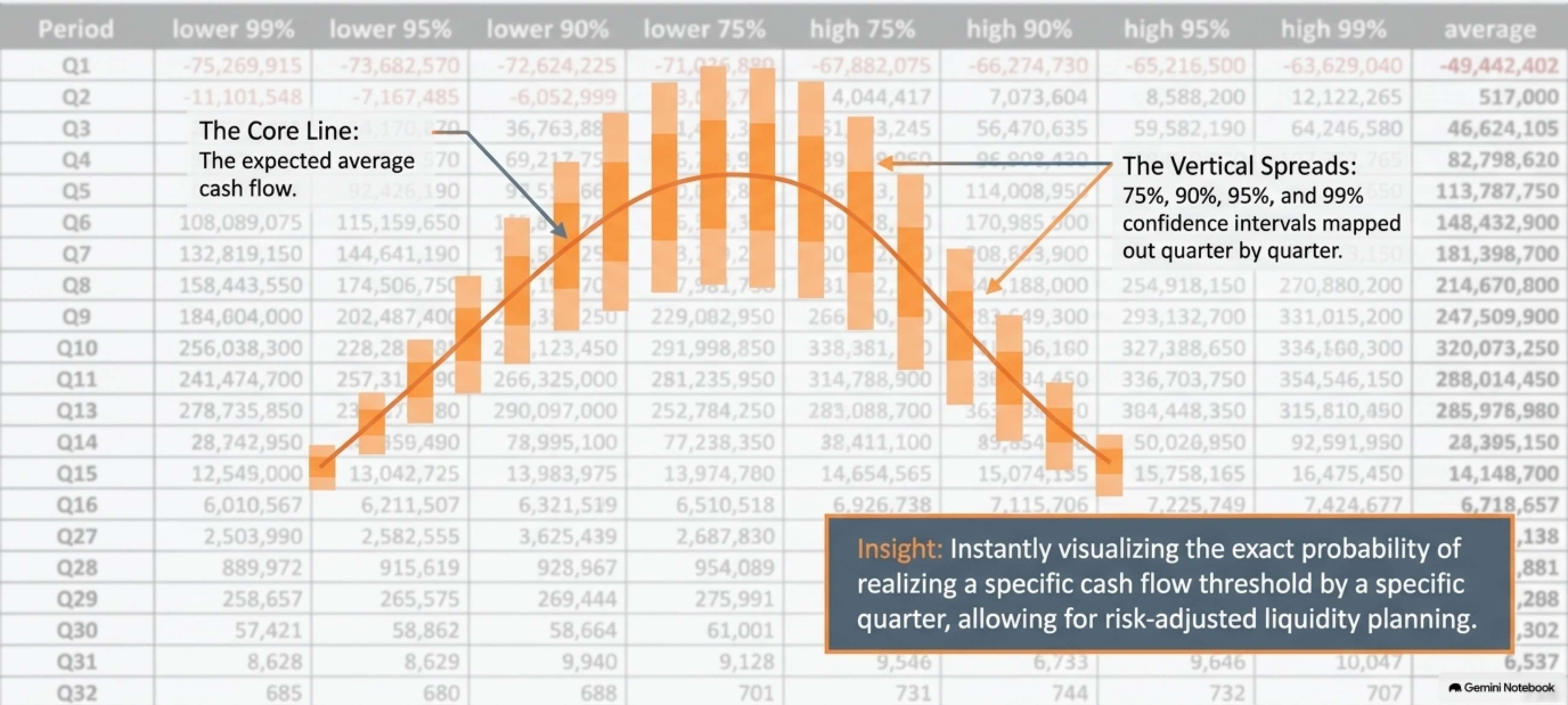


Fund Contributions



Unlike complex machine learning algorithms that over-fit past data and obscure transparency, BOSTON utilizes an intuitive econometric estimation approach that holds its predictive power out-of-sample.

From Data Grids to Decision Surfaces.



Aspequity: & Empowering Private Market Decisions. They keep it to the fit and out.

We provide powerful analytics to a global client base of LPs, GPs, data platforms, and investment consultants across private equity, venture, private debt, real estate, and infrastructure.

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