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PROJECT AND DEVELOPMENT OVERVIEW

Building a market measurement and intelligence *platform.*



nivuno.com

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A structured history of how *price behaviour develops.*

Nivuno turns price data into a connected history of market movements and structural change. Defined rules identify how movements begin, develop and resolve, and record their relationships within and across timescales.

The history preserves developing observations separately from later confirmations and outcomes. Researchers can therefore examine how a situation formed, its surrounding structure and what followed, using the information available at each stage.

Designed for application across assets and timescales.

> *Does the history of how a market movement develops add useful information beyond established measurements?*

RECORDED AT THE TIME

Movement so far, surrounding structure and wider-timescale context

ESTABLISHED LATER

Subsequent development, confirmations and outcomes

Designed for *machine-learning research.*

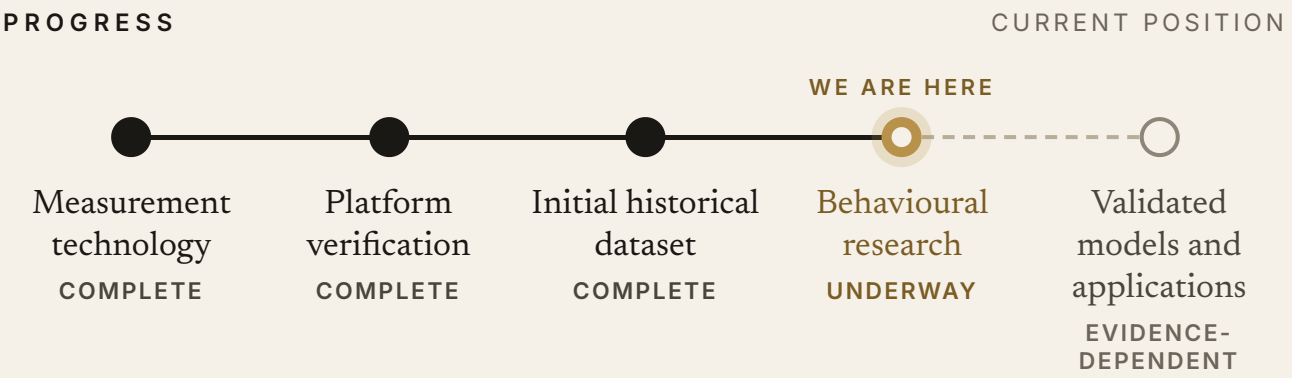
Machine-readable records for statistical analysis and machine learning:

- Consistent definitions and linked records
- Information-availability and revision histories
- Versioned records for reproducible model evaluation



02 — PROGRESS

The foundation is built. *The investigation continues.*



COMPLETED FOUNDATION

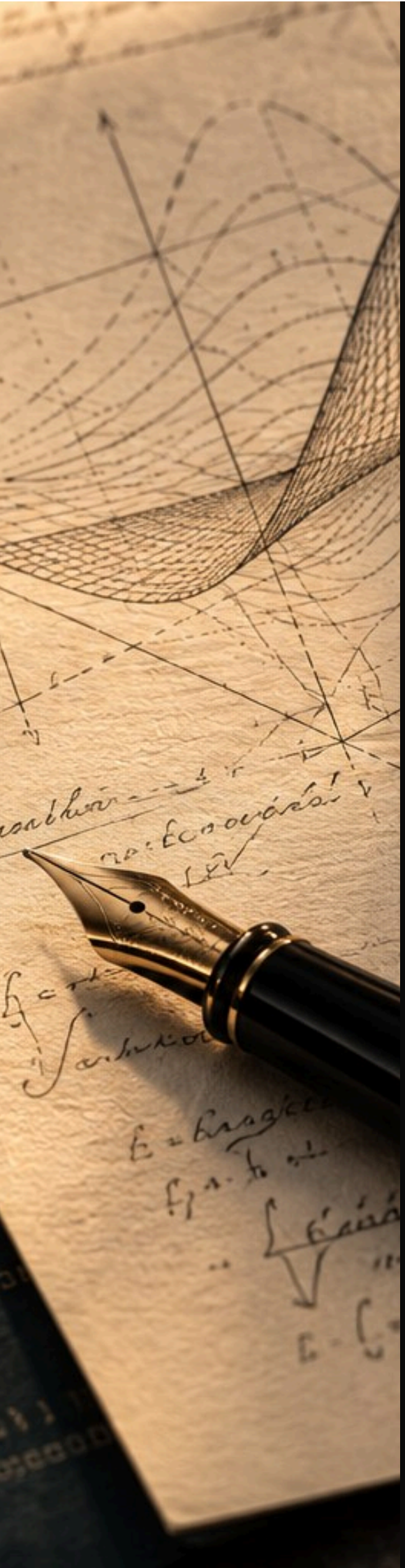
- Core measurement software implemented
- Linked records of developing and completed movements
- Replay and information-timing checks completed
- Initial historical research dataset constructed

CURRENT RESEARCH

- Measuring typical behaviour and its variation
- Testing how behaviour varies with context
- Comparing developing movements with historical peers
- Testing information beyond established measures

NEXT DEVELOPMENT

- Confirm findings on held-back data
- Develop specialist models where findings justify them
- Test the additional value of combining models
- Develop and evaluate applications supported by the findings



03 — THE RESEARCH

Turning measurements *into knowledge.*

Behavioural research is now underway on the initial historical dataset. It is organised around four questions.

01 ## What is normal?

Typical behaviour and variation within comparable groups.

02 ## What changes with context?

Comparing similar movements under different surrounding conditions.

03 ## What adds information?

Test what the structural record adds beyond established measures and simpler alternatives.

04 ## What survives scrutiny?

Research findings are subject to held-back testing and separate review.

04 — THE LONG-TERM VISION

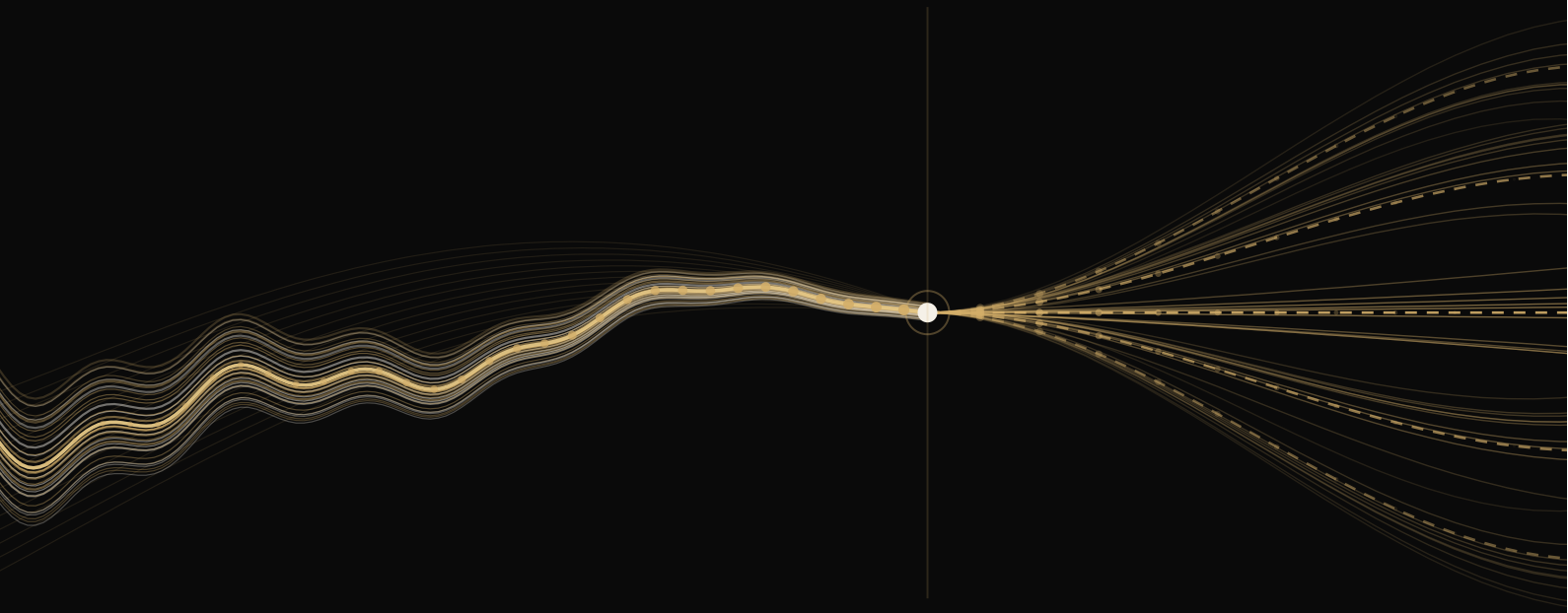
Towards a working model of *market behaviour.*

Nivuno's ambition is to connect the development of individual price movements with the behaviour of the market across timescales, building a body of knowledge about how market movements form, develop and resolve.

The deeper scientific question is whether repeatable behavioural relationships extend across different assets and scales, or depend on particular market conditions.

The intended destination is an evolving market view that brings this knowledge together: current conditions understood through their history, alternative future paths, expected timing and changing risk, with explicit uncertainty.

A system whose forecasts can be preserved and tested against subsequent events.



Conceptual illustration - not a model forecast.

Understand how markets develop.
Map how they may develop next.

05 — SUPPORT AND ENQUIRIES

Support the research. *Explore its potential.*

Nivuno welcomes support for its research and development, and enquiries from organisations interested in the programme and its potential applications.

PROGRAMME SUPPORT
Support defined research and development milestones.

EXPERTISE
Contribute research, engineering or market expertise.

DATA AND COMPUTE
Provide data access, computing capacity or storage.

FURTHER ENQUIRIES
Learn more about the research programme and its potential relevance to your organisation.

info@nivuno.com

www.nivuno.com



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