kesitys

0.223

1.7231

7.365

6.862

4,325

3265

Next-Generation Gamma Trading

Executive Summary

Positioning statement

Kesitys provides its clients, market operators, with innovative financial mathematics tools that enable them to manage the risk of their derivative portfolios in an automatic and optimized way.

Founders

Mnacho Echenim (Ing.,PhD,HDR), associate prof. at Grenoble INP Ensimag, resp. of Financial Engineering department. Expertise in computational finance and financial IS.

Emmanuel Gobet (Ing.,PhD,HDR), prof. at Ecole Polytechnique in Applied Maths and Financial Maths., resp. of Master II « Proba & Finance » : research on risks and optimization in general. Design of innovative algorithms for Gamma Hedging optimization.

Anne-Claire Jeancolas (Ing. Ensimag/IAE+HEC) : former IT manager for a trading desk (BNPP), project management, software development. HEC Entrepreneurship and Business Development Training.

Business Model

Software publishers :

- > Upfront (installation, integration) : 20 k€
- ➤ Monthly license per portfolio : 2000€

Market

- > ~320 Market Makers in Europe (~1 portfolio per trader)
- > In an average portfolio : 15k€ of trading costs per month

Our assets

- Ready and marketable software for our first target: Market Makers for Equity and Index options
- > POC realized in real conditions, TRL7
- > **30% reduction in trading costs** while maintaining a constant level of risk
- Automation = 20 hours saved, per month, per portfolio
- Access to resources through university labs and networks (X, Ensimag, etc.)
- Powerful networks of former students (Master "Proba Finance", X, etc.)

Our objectives

- Become the trading floor benchmark for derivative products risk hedging
- Provide 30% of Equity & Index Market Makers in Europe within 3 years
- ➢ Within 5 years :

✓ €6,7M turnover
 ✓ 40% of profit
 ✓ ~40 employees

Long-term vision: global development (North America, Asia), R&D for other financial products (currencies, commodities, etc.)

Our need

Capital of €1.5M to allow the commercial acceleration and growth of Kesitys.

Managing portfolio risks is too costly

« Managing portfolio risks costs too much money and time »*

1-month maturity option

n ≈ 20€ estimated for risk hedging costs ≈ 1€ per day
 ≈ 1h per day globally spent on risk hedging



* Market study carried out with various actors from Banks, Market Makers and Hedge Funds.

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TEMPO: optimal decision tool support

TEMPO is a steering assistant that signals to traders the optimal times to hedge their risks



An expert team



Anne-Claire JEANCOLAS

Co-founder & CEO Engineer in Math/IT/Finance IT manager on a trading desk (BNP CIB) in



Grenoble INP





Scientific



Nicole El Karoui

French mathematician A pioneer in the development of financial math.

Trading desks

Pascal Poupelle

Crédit Lyonnais US GM of *Calyon*



CEO of *RBS* France & Benelux

Entrepreneurship



Jean-Claude Rassou

Former CEO of *Motorola* France Strategy and business consultant.

Mnacho ECHENIM

in

Grenoble INP Co-founder & Scientific adviser PhD, HDR Associate professor at Grenoble INP Ensimag Co-head of « Ingénierie pour la Finance » (Ensimag -IAE Grenoble)



Emmanuel GOBET

Co-founder & Scientific adviser PhD. HDR Professor at Ecole Polytechnique (Applied Maths.) Co-head of M2 « Probabilité et Finance » (UPMC-X) in





Mourad Lassoued

Product Manager Ensimaa Engineer in Math/IT/Finance, CFA Financial Expert (6 years), Société Générale CIB in



Competing approaches

« Close-to-close » strategy

(hedging once a day at market close)

- 🕨 Automatic
- **_** Suboptimal
- Non-adaptive

Manual management

- Adaptive
 Subjective
 - 🗕 Manual
 - **–** Suboptimal

Competitors

- Tools developed in-house for traders
- No known publicly available software

An innovative technology ...

Based on an optimal algorithm

- The result of several years of research
- An innovation in financial mathematics
- Performance confirmed on realworld tests

Automated and efficient



« **Plug and play** » software :

- Real-time data
 processing
- Quick integration of our RESTful API into the trader's information system

Data & Portfolio Driven



Automatically adapts to market conditions and trader's portfolio

- ✓ Dynamic stochastic programming
- ✓ Statistical learning
- ✓ Time series

Intuitive et customizable



- Immediate start up
- Simple and customizable ergonomics

Early adopters and next customers



Business Model : software publisher

Upfront 20 k€



Installation on site



Integration

into IS



Training





Recurring turnover

Average monthly net gain* for a trader

- 2500€
- 20 hours saved

* TEMPO license price included



First objective: providing 33% of Market Makers in Europe within 3 years



and growing

What is next?

- Commercialize to other actors (Hedge Funds, Banks etc.)
- Commercialize in other continents
- Develop TEMPO for other markets (commodities, forex etc.)

Our vision



Partners

We are working with :

• Research institutions

• Structures dedicated to entrepreneurship









• International cluster



And we are always **looking for new customer-partners** (to test our strategies, analyse our performance, etc.)

CINIS

Financing Plan

For 2019: beginning of commercial development

- 100k€ initial capital
- 155k€ raised in love money
- Government subsidies (ongoing : 50-100k€)



For 2020/+: Capital of €1.5M for the commercial acceleration and growth of Kesitys



We aim for a global and complete development: to cover all actors, all markets, all exchanges. Our goal is to become the trading floor benchmark for derivative risk hedging.

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<u>Objective</u> : becoming the trading floor benchmark for the risk hedging of derivative products

<u>Need</u> : Capital of **€1.5M** to allow the commercial acceleration and growth of Kesitys

For more information: <u>www.kesitys.com</u>



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