



KYOS - Overview

- International client base across Europe, plus Americas and Japan
- > 100 corporate clients





KYOS



Background

- o Activities started in 2001, Strong focus on risk management
- Core competence: combine quantitative background with practical solutions

Activities

o Modelling

Apply quantitative financial techniques to commodity markets

- Software development: Analytical platform
 Practical approach for understandable risk reporting
- o <u>Training</u>

Combine theory with real life examples



ERP, TMS compared to KYOS



- Physical Logistics
- Inventory
- Invoicing/Payments
- Positions, Cashflows
- MtM FX and IR
- Hedge Accounting

"RISK COMES
FROM NOT
KNOWING
WHAT YOU'RE
DOING."
WARREN BUFFET



- MtM valuations for all commodity derivatives
- Stress testing
 - prices
 - volatility
- Value-at-Risk (short term risks)
- Cashflow-at-Risk (long term risks)



Adding value to the chain – risk management

Physical flows CPO/CFO Financial hedges Head of Trading Price analytics Head of Risk ✓ SFTP, API Treasury ✓ SaaS based ERP, contract & price data KYOS Cashflow forecasts Insight in risks Coverage reporting Reporting Analysis

Enable you to look forward as ...

hindsight is a wonderfull thing



Markets relevant to dairy are "volatile"



Ammonia (natural gas), corn, soybean meal, diesel......

Natural gas typically represents 55 per cent of the cash cost of production



As such it is one of the most feedstock- (or energy-) cost sensitive petrochemicals produced.





Adding value to the chain – risk management



Sales & Procurement : What can happen during a 2 weeks holiday in....e.g..... Italy

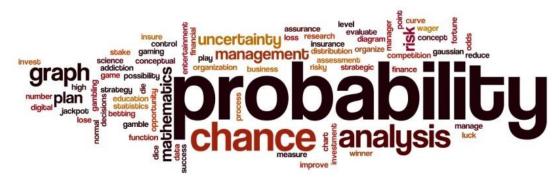


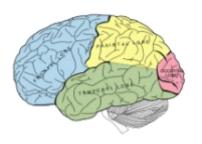
CFO: What can happen the next 2 or 3 years



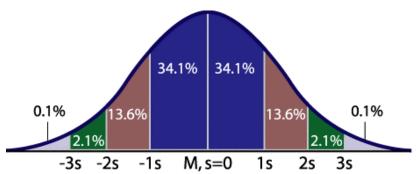
Struggle between brain, experience and gut feeling













Price risks for buyers/sellers translated into "cash"

Price risks can be calculated (estimated) of products bought and/or sold

Certainty is the "big" question





Estimating potential dairy related cash-flows



Date	÷	Legal entity	Counterparty	Period	Commodity	B/S \$	Volume +	FX \$	Price type
2023-01-	01	Food producer global	Market	Jan'24 - Dec'24	Whey powder (EEX)	Buy	7,200 MT	EUR	phys indexed
2023-01-	01	Food producer global	Market	Jan'24 - Dec'24	Butter - EEX	Buy	1,500 MT	EUR	phys indexed

From straight forward commodities to "products" like:

Beer, bread, chocolate or even a "steel bridge"





Starting point: today's values



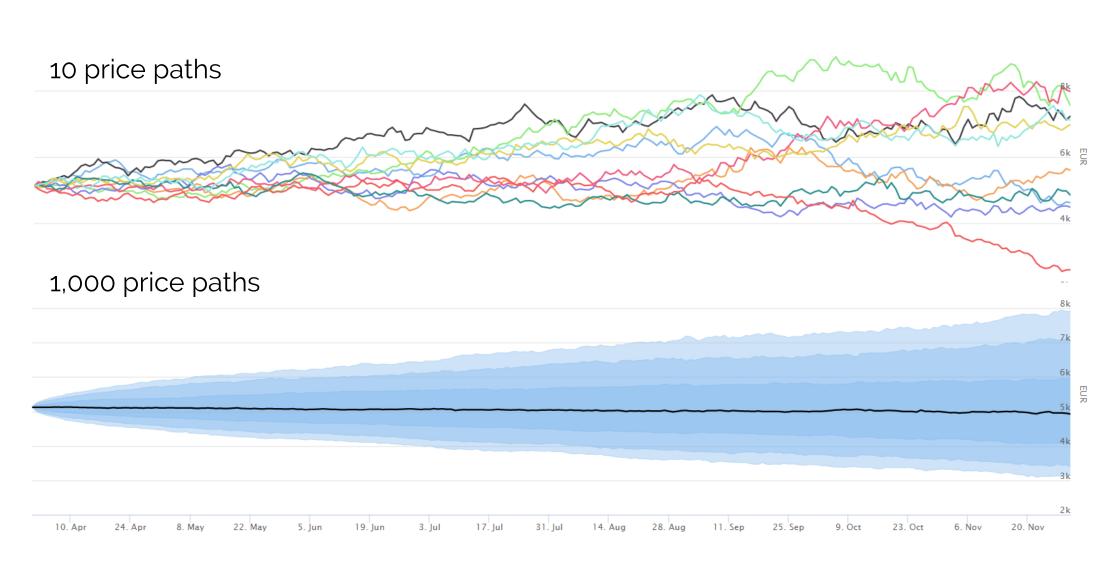


Calculating volatilities & correlations





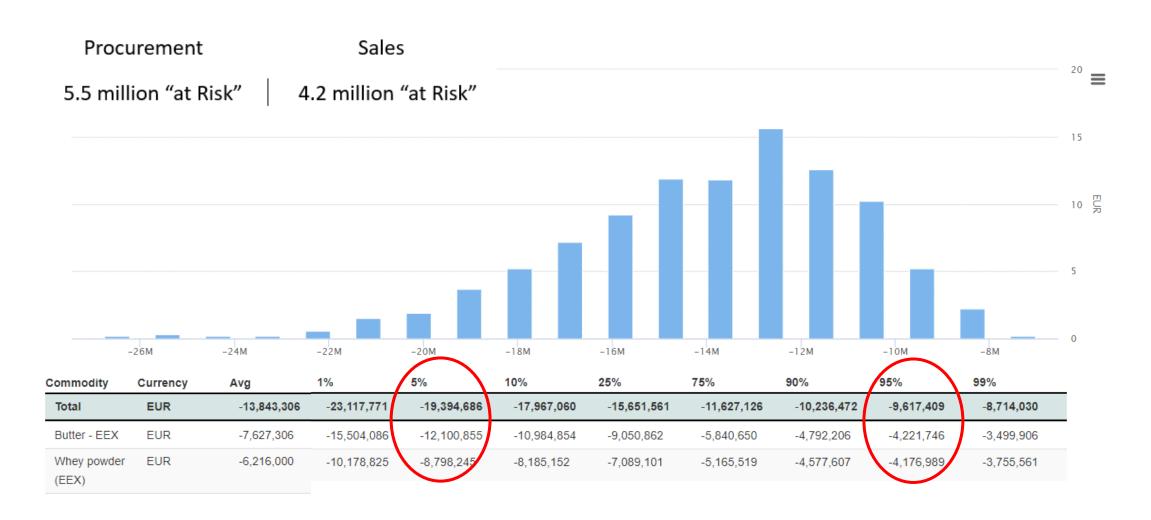
Use all information to create Monte Carlo simulations





Long-term risk for buyers as well as producers







Short-term risks – trading companies – 10 days



Hedging tools in turbulent times



Food producer global	BNP Paribas	May'24 - May'24	Butter - EEX	(Buy	50.00 MT	EUR	fin option 6,000 C 10,000
Food producer global	BNP Paribas	Apr'24 - Apr'24	Butter - EEX	(Buy	50.00 MT	EUR	fin option 6,000 C 10,000
Food producer global	Rabobank	Mar'24 - Mar'24	Butter - EEX	(Buy	50.00 MT	EUR	fin swap 5,160
Food producer global	BNP Paribas	Feb'24 - Feb'24	Butter - EEX	(Buy	50.00 MT	EUR	fin swap 5,155
ood producer lobal	Rabobank	Jan'24 - Jan'24	Butter - EEX	(Buy	50.00 MT	EUR	fin swap 5,150
Food producer global	Market	Jan'24 - Dec'24	Butter - EEX	(Buy	420.00 MT	EUR	phys fixed 5,200
Food producer global	Market	Jan'24 - Dec'24	Whey powde	er	Buy	2,100 MT	EUR	phys fixed 842.50

Growth in financial derivatives creating a combined book (physical/financial)

- Swaps/futures
- o Call and Put options



Partially hedged portfolio – mitigate the risks







KYOS PRM – Portfolio and risk management



To conclude, KYOS offers software solution for advanced risk management

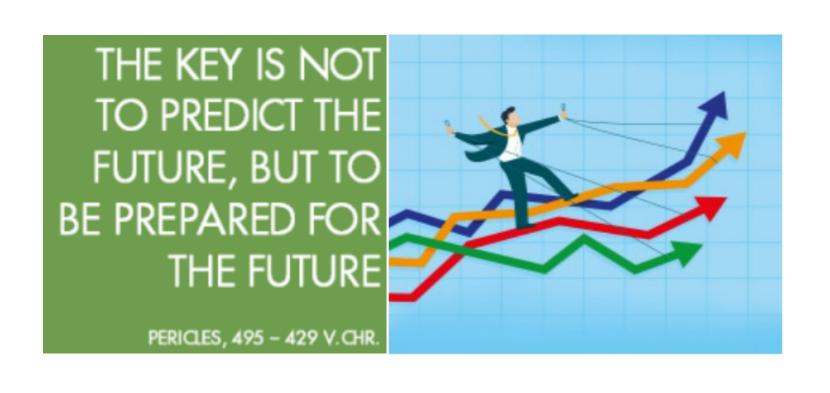
Main elements:

- Cash-flow at risk (Cfar)
- Value-at-risk (VaR)
- Monte Carlo Price simulations (KySim)
- Advanced option capturing, like accumulators

All delivered in a user-friendly, on-line SaaS based platform Used by treasury, sales, procurement and finance



Let's talk and get you in control, where possible...





Questions

Time for questions & answers!







More information



Looking forward supporting you with advice & tools!



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