

Deutsche Börse  
New Feeds and Historical Data for Algo Trading  
More Alpha for Algo Traders  
WFIC Athens, October 2009



# Moving markets

## Act on facts



- Real-time market data from one of the world's leading exchanges for cash and derivatives moves global markets



- Granular historical market data allows for in-depth market analysis in order to develop efficient algos
- Indispensable data for back-testing algos



- Event data like macroeconomic data move markets - the stronger the deviation of the actual figure from the market expectation the stronger the impact on the market
  - Macro events move all markets: equities, fixed income, FX, cash, derivatives and others
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# CEF<sup>®</sup> ultra+ Eurex

## Derive alpha with ultra speed

### High performance data feed based on Multicast Technology

- The fastest Eurex<sup>®</sup> data available
- Data transmission via Multicast based on FIX 5.0, easy to integrate
- Efficient use of bandwidth due to FAST compression
- Only delta changes to the order book are disseminated in order to keep data volumes at bay

Get  
ultra fast data

### Data at higher granularity and more market depth

- Un-netted order book data reflect the current market situation in detail
- Greater level of market depth for all contracts - no filter mechanism implemented for depth of order book
- CEF<sup>®</sup> ultra+ Eurex provides depth of calendar spreads

Identify  
new  
trading  
opportunities

### Trade recovery CEF<sup>®</sup> ultra+ Eurex

- Complemented by Trade Recovery Data Stream available via secure TCP/IP connection
- Allows for separation of trades from full stream/set of data

Get the  
complete  
picture

# CEF<sup>®</sup> ultra+ Xetra

## Cash in alpha at ultra speed

### High performance data feed based on Multicast Technology

- The fastest Xetra<sup>®</sup> data available
- Multicast based on FIX 5.0, easy to integrate
- Efficient use of bandwidth due to FAST compression
- Different multicast streams will be used for order book „deltas“ and „snapshot“ messages

Get  
ultra fast data

### Data at higher granularity and more market depth

- Un-netted order book data reflect the current market situation in detail
- Greater depth of book, e.g. 20 bid/ask levels for DAX<sup>®</sup> equities
- No derived information, speed for raw data is more essential

Identify  
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### Trade recovery CEF<sup>®</sup> ultra+ Xetra

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Get the  
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# Eurex<sup>®</sup> Historical Order Book Excel in backtesting

## Eurex<sup>®</sup> Historical Order Book full market depth

- All Eurex<sup>®</sup> traded products
- US-traded products

## Content and analytics

- Provides the complete history of data directly from the Eurex<sup>®</sup> trading system
- Consists of all limit orders and executions
- Data is time stamped with an accuracy of 10 milliseconds

## Basic information

- Contract ID, strike price, underlying, bid and ask size, trade size, high, low and opening and closing auction prices and open interest

## Additional analytics

- Aggressive and passive indicator on executions
- Spread/ combo flags
- Market status information (i.e. fast market)

## Benefits

- Allows for the complete order book replay along with the ability to choose specific points in time for situational analysis and order impact
- In depth analysis for examination of micro structure of the overall book or during specific points in time
- A cost effective method for entry into new areas of traded products with new and existing models

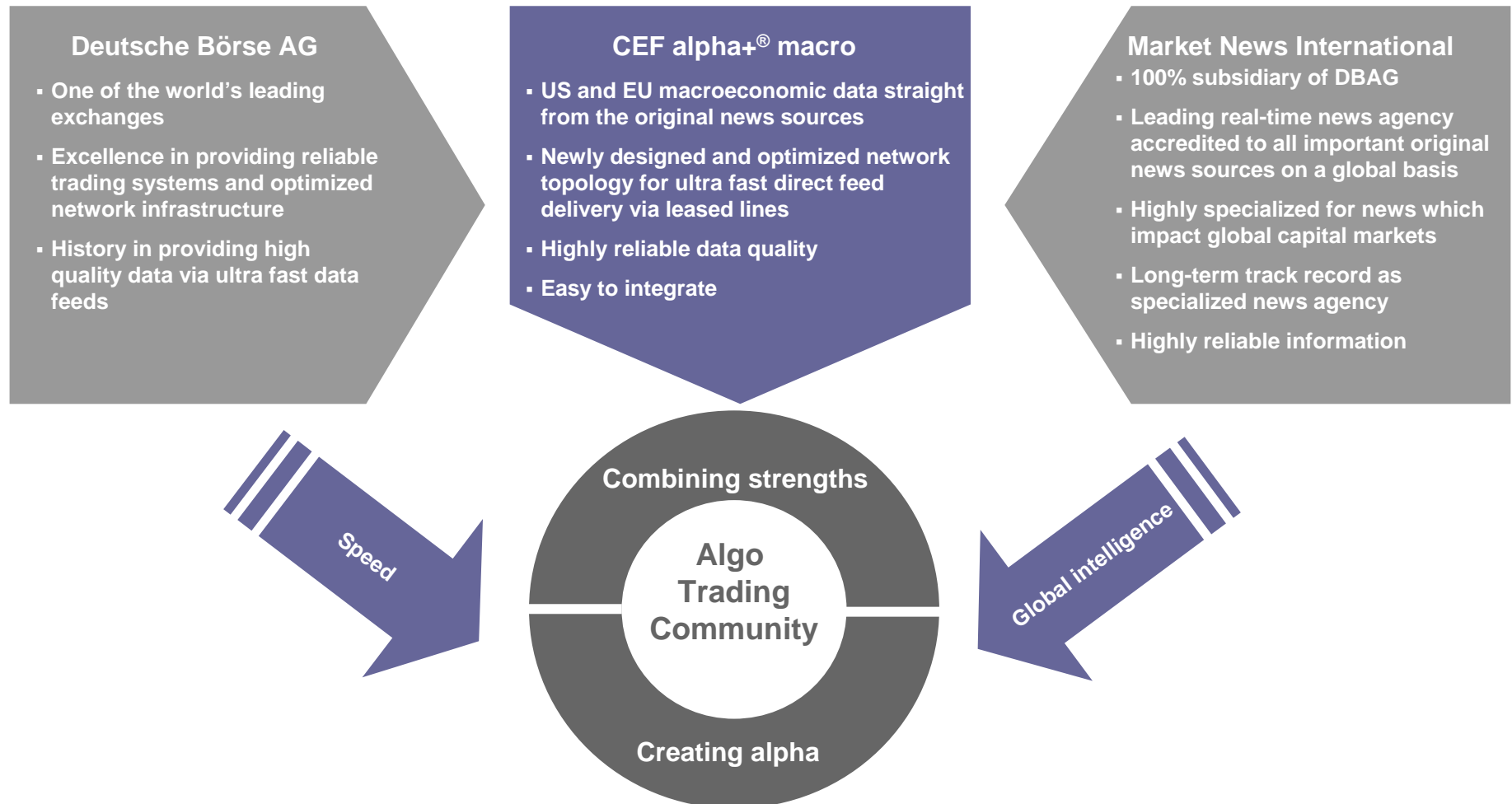
## Delivery

- Data delivered on hard drive via post

Xetra<sup>®</sup> Historical Order Book data  
will be made available in 2010

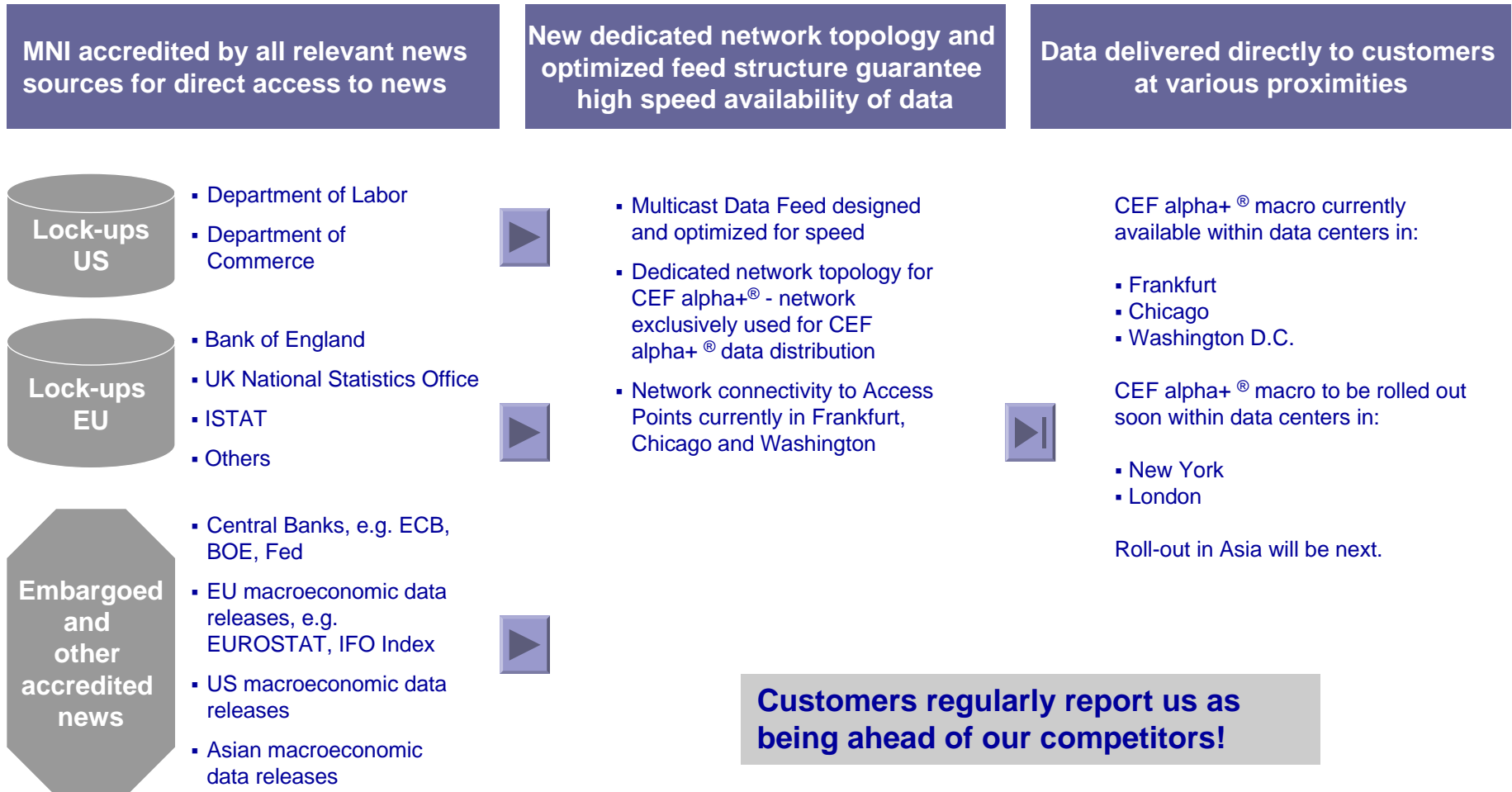
# CEF alpha+<sup>®</sup> macro

## Lock in a plus of alpha straight from the lock-ups



# Trade on news/events at unrivalled speed

## Macroeconomic data directly from the official sources



**Customers regularly report us as being ahead of our competitors!**

# Do you want to generate more alpha? We're happy to assist you!

Deutsche Börse

Market Data & Analytics –

Front Office Data & Analytics:

+49 - 69 -211-12442 (Frankfurt)

+44 - 20 -7862-7223 (London)

+1 - 312 -5 44-10 95 (Chicago)

[mda.frontoffice@deutsche-boerse.com](mailto:mda.frontoffice@deutsche-boerse.com)

[www.deutsche-boerse.com/mda\\_e](http://www.deutsche-boerse.com/mda_e)

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Thank you for your attention!

