### 36 South Breakfast

# Profile of the U.S. Listed Equity Options Market

Zurich October 23, 2013



### The Options Industry Council (OIC)

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www.OptionsEducation.org



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For the sake of simplicity, the examples that follow do not take into consideration commissions and other transaction fees, tax considerations, or margin requirements, which are factors that may significantly affect the economic consequences of a given strategy. An investor should review transaction costs, margin requirements and tax considerations with a broker and tax advisor before entering into any options strategy.

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# U.S. EQUITY OPTIONS MARKET STRUCTURE



### 12 Exchanges, 1 Clearing House

















NASDAQ OMX° NOM

NASDAQ OMX' BX OPTIONS

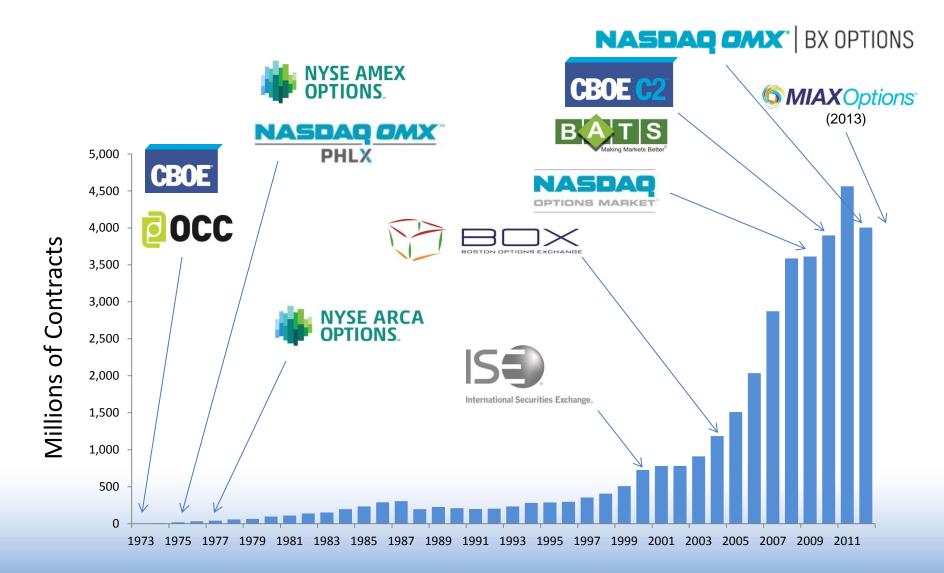
NASDAQ OMX\* PHLX







### **Time Line**



### Role of the OCC

- "Issuer and guarantor"
- Stands between parties to a trade, stepping in to guarantee performance on a transaction if either clearing member defaults

Option Seller Margin OCC

Clearing House Option Buyer

**Premium** 



# EUROPEAN HEDGE FUND USAGE OF U.S. EQUITY OPTIONS



#### **Business Evolution**

- Regulatory, Perception, and Technology Changes
- Hedge Funds, Asset Managers and Prop Desks...
  - New strategies using ultra low latency
  - Sophisticated portfolio management hedge / enhance returns
  - Options traded as an asset class
  - Algorithmic trading
- Pension Fund Managers
  - Restrictions to options use is reduced



# European investors account for estimated 10% of total U.S. listed options trading in 2010

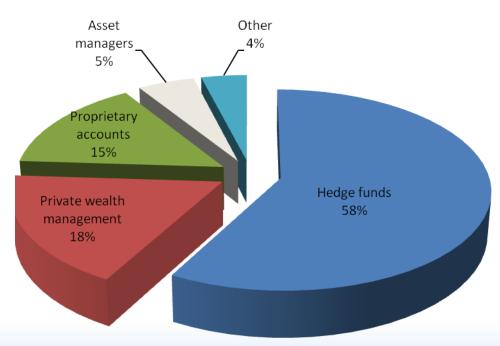
Hedge funds domiciled in Europe represent the largest source of demand for U.S. listed options.

- Small- to medium-sized funds without a U.S. presence.
- Trading around corporate events and volatility.

Private wealth accounts are a growing source of order flow.

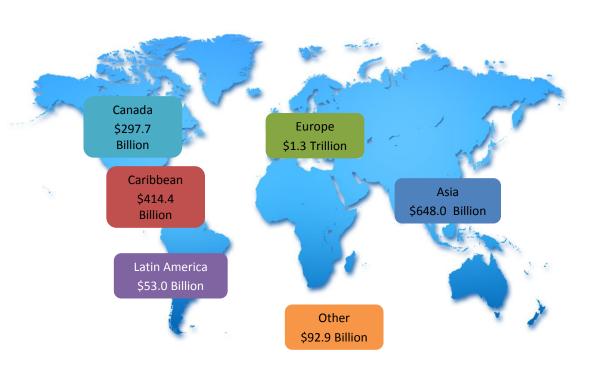
- High levels of U.S. equity exposure.
- Focus options strategies on risk management and premium generation

### Proportion of US Listed Options Order Flow Originating from Europe

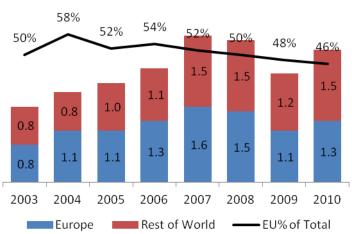


**Source: TABB Group** 

# European investors account for 46% of total foreign holdings of U.S. equities

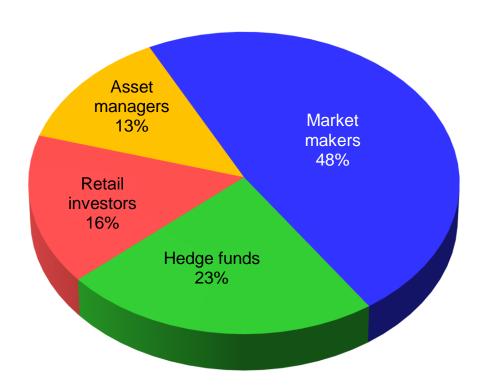


### Europe compared with Rest of World (excluding U.S.)



**Source: TABB Group** 

# Total Participation in U.S. Options Market by Segment in 2012



**Source: TABB Group** 

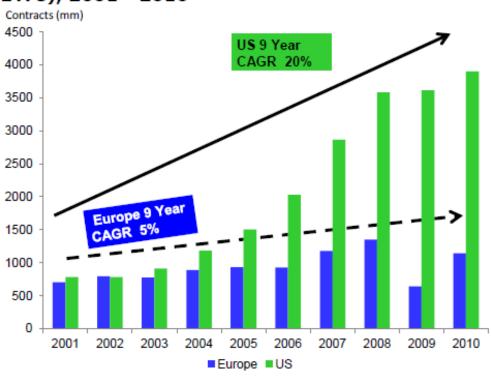


## **MARKET QUALITY**



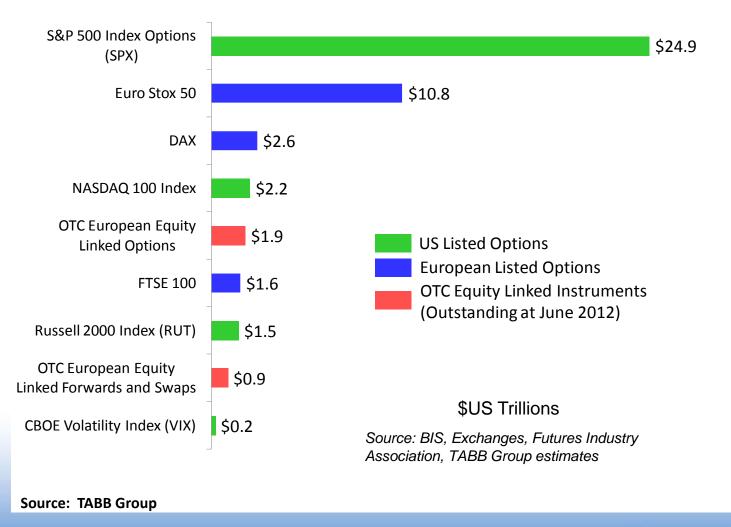
### **Contrasting Growth Rates U.S. - Europe**

Equity Options Volumes (Single Stock, Index, ETFs), 2001 - 2010



Source: TABB Group, WFE, OCC

# Value of Trading in Selected US & European Listed Options

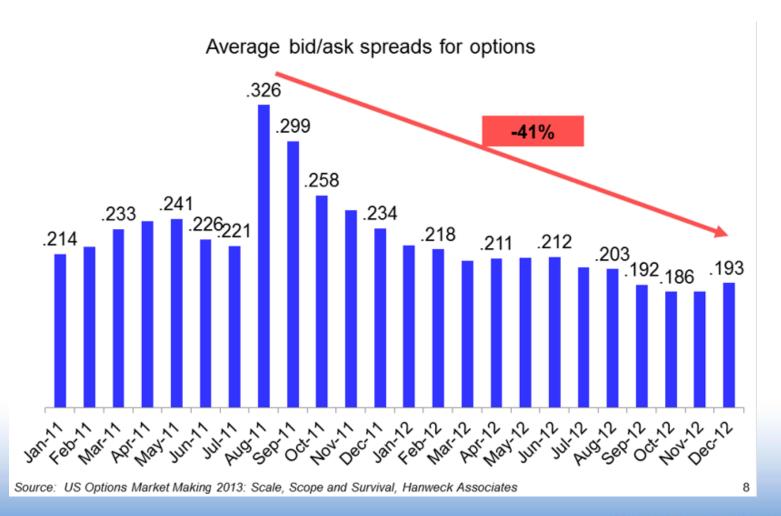


### Some 2012 Volume Detail

- 8 of the 10 most actively traded options were ETF or Index options
- Vanilla options: 57% of total equity options trading
- ETF options: 35%
- Index options: 8%

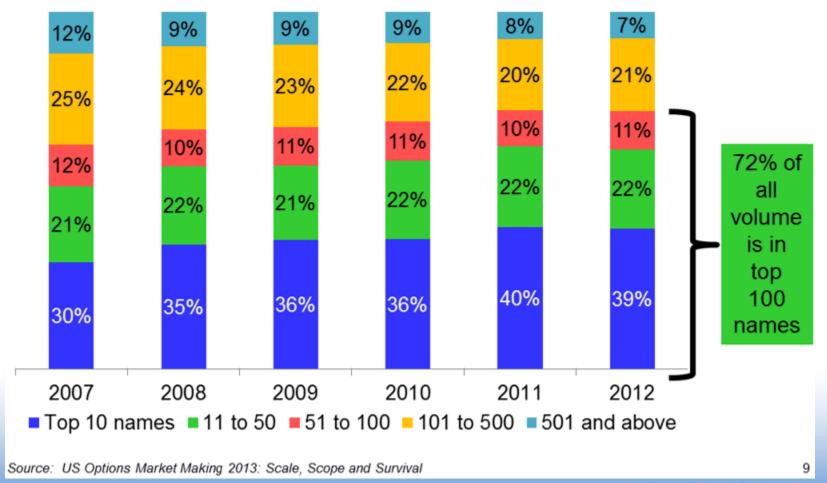


## **Spreads are Tightening**

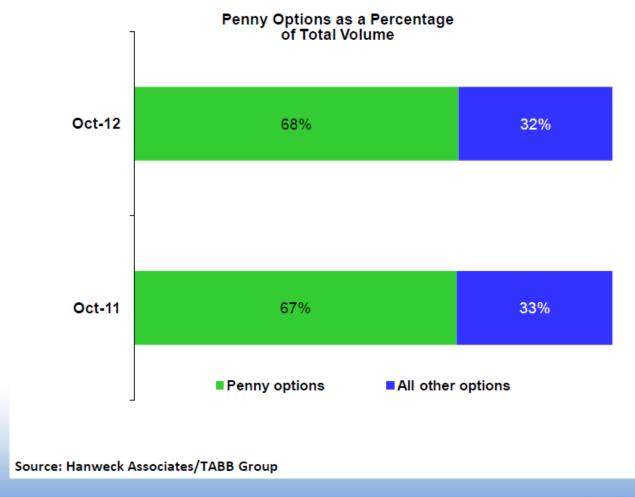


## **Trading is More Concentrated**

Proportion of Volume Traded in Top Symbols

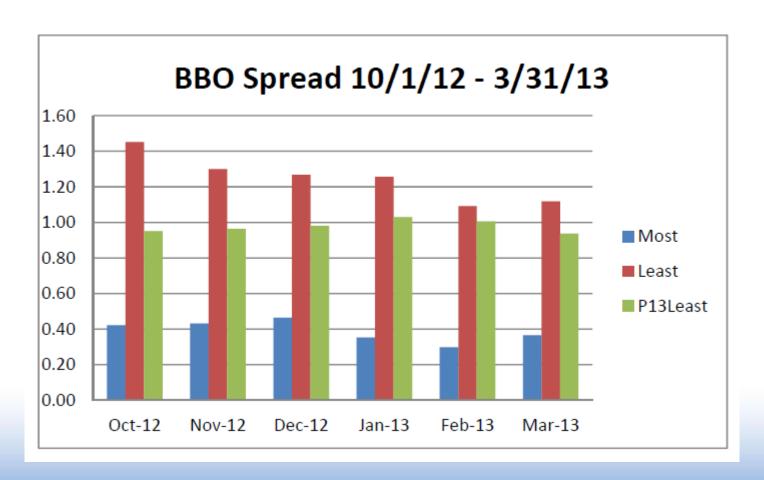


## **Penny Pricing: Percent of Total**





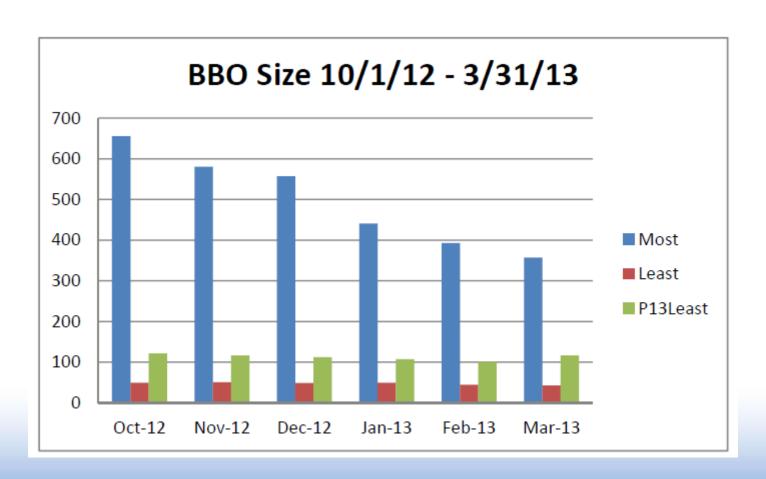
## **Penny Pricing: Tight Spreads**



Source: ISE



# **Penny Pricing: Liquidity**



Source: ISE

### **Liquidity Providers**

Typical market maker and prop shop participants include:

- Bank of America
- BNP Paribas
- Citadel
- Citigroup
- Goldman Sachs
- IMC

- KCG
- Morgan Stanley
- Optiver
- RBC
- Susquehanna
- Timber Hill

Note that no recommendation is made with respect to the use of any firm.



### Tools

- Vanilla options
- ETF options
- Index options
- Weekly options
- LEAPS
- Super LEAPS
- Flex Options



### **U.S. OTC Equity Derivatives Clearing**

- Initial launch to support OTC equity index options dealer-to-dealer trades,
   followed by dealer-to-client trades soon after
- The first time central counterparty clearing will be available for OTC equity index options
- OTC trades sent to OCC for clearing will follow OCC's existing clearing, settlement, and risk management processes
- Currently testing with proposed participants and MarkitSERV, trade source and middleware provider
- OCC awaiting U.S. regulatory approval.

