

# Introduction To Applying Technical Analysis

#### **Taso Anastasiou**

Strategist UBS AG, Tel + 41 44 239 91 04 taso.anastasiou@ubs.com

This document has been prepared by UBS Limited

February 2012

ANALYST CERTIFICATION AND REQUIRED DISCLOSURES BEGIN ON SLIDE 54





• Technical Analysis is the study of price action

#### **Studying Historical Price Action**



@1985-2002 Tradermade International Ltd. All rights reserved.



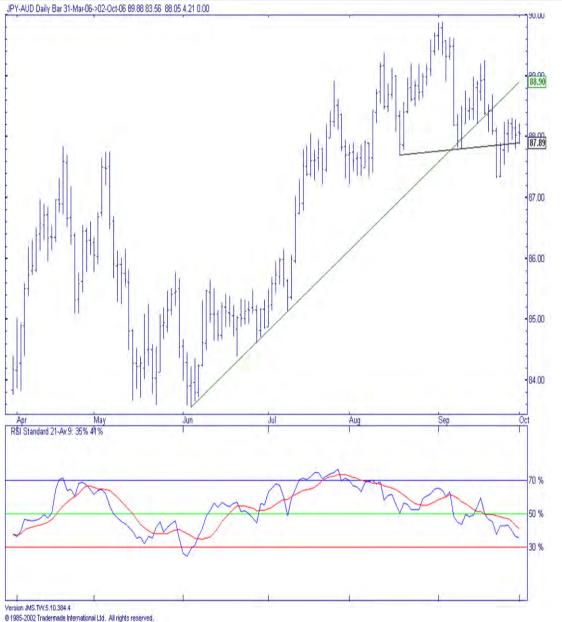
## **Basic Tenets Behind Technical Analysis**

- The market discounts everything
- Prices move in trends
- History tends to repeats itself
- Human behaviour/psychology is repetitive

## So What Are We Really Trying To Do?

- Technical Analysis is the study of price action historical
- This is possible because historical price action has proved to contain a repetitive element
- Allows one to tap into the *PSYCHOLOGICAL* make-up of the market.
- Observing conditions that signal strength or weakness in a trend
- Improve the timing element in detecting changes in market dynamics
- Effective execution and management of trades PLAN THE TRADE AND TRADE THE PLAN!
- Preserving capital risk management is key!

## A Focus On Price



- Imagine ignoring all fundamental events and allow the market to deal with current and future market moving information
- The price level then summarises the result of all these decision makers
- Providing us with a summary of the day's events at any point in time, and more.....
- FEAR and GREED



# **Disciplined Approach-Tools & Applications**

- Studying the psychological element of price
  - Trends and trendlines
  - Price patterns
  - Candlestick analysis
  - Elliott wave analysis
- Momentum
- Moving Averages
- Fibonacci retracements
- Establishing a directional bias
- Planning a trade
- Trading the plan

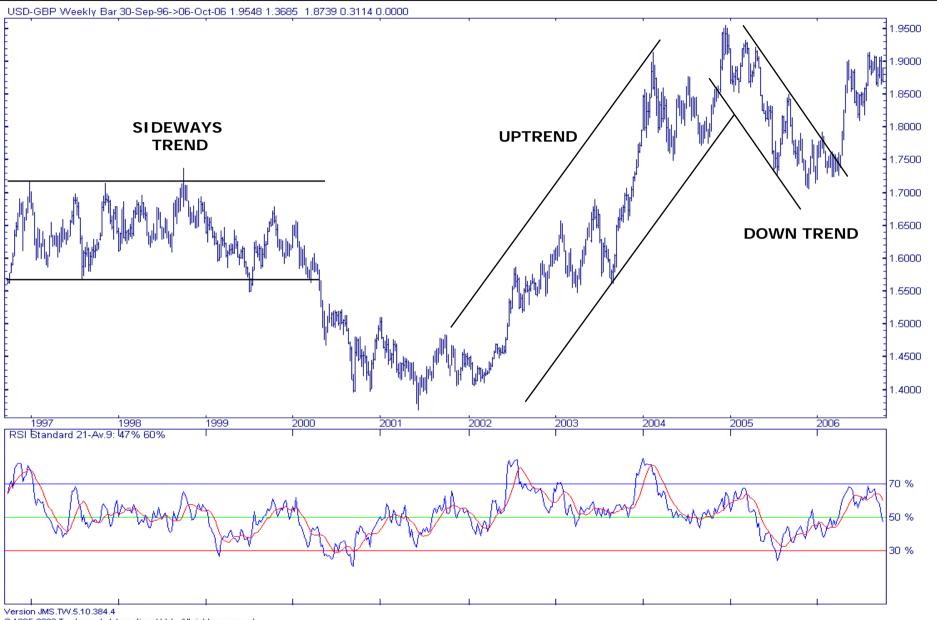
#### **Technical Versus Fundamental Analysis**

- An economist studies factors that markets to move such as:
  - Interest rates
  - Corporate profits
  - Central bank decision
  - Commodity supply issues
  - Geopolitical concerns
- Economic analysis therefore focuses on factors affecting the supply/demand curves
- These can be difficult to identify and evaluate what is the market really thinking?

## How Can Technical Analysis Help Me?

- It can increase trading flexibility and adaptability
- The technical trader has the ability to select trending markets and therefore select the better trading opportunities
- Technical analysis improves timing when entering/exiting positions. Identifies risk levels as well forcing a disciplined approach to the market
- Assists in managing risk
- Technical analysis can be applied to multiple time frames
- Helps you to achieve superior returns

#### Know Your Trend – There Are 3 Types Of Trends

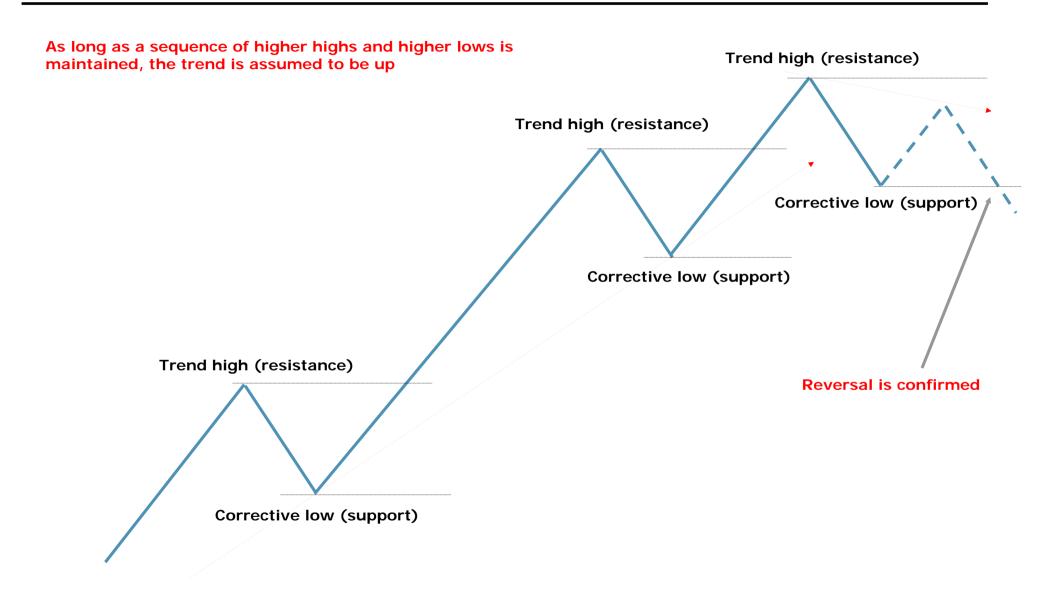


<sup>@1985-2002</sup> Tradermade International Ltd. All rights reserved.



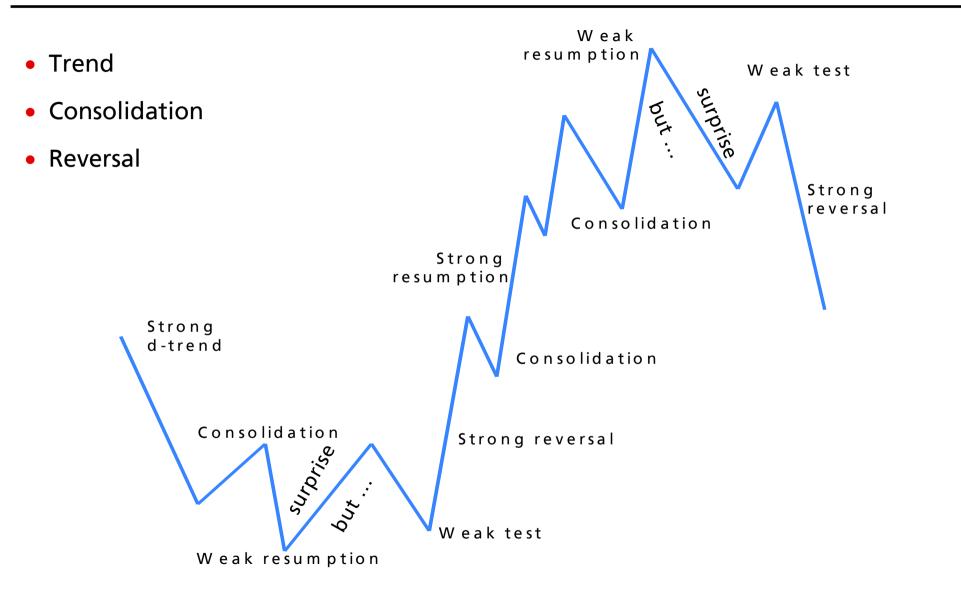
- An uptrend is a sequence of higher highs and higher lows
- A downtrend is a sequence of lower lows and lower highs

## **Understanding A Trend**





#### **Anatomy of Price Action**



#### Market will always be in one of these 3 modes



#### **Successful Trend Definition Is Essential**

- Assess underlying direction of the trend
  - Flat / Up / Down
- Expression of underlying view for risk management are you a bull or a bear?
- Detection of risk levels for protection
- Where do reversals develop shift in sentiment

#### **Test - Trend Definition Is Essential**



© 1985-2002 Tradermade International Ltd. All rights reserved.



#### **Trend Definition Is Essential**





- A trend is defined by a series of highs and lows higher highs and higher lows confirm an uptrend, lower lows and lower highs a downtrend – never forget this
- In a bear market the trend must be defined through the prior highs resistance
- In a bull market the trend must be defined through the lows support
- The more times the trend line is tested, the more valid the line is
- Identifying trend support / resistance is key
- The trend is your friend...... Until it reverses!

#### **Trendlines And Channels**

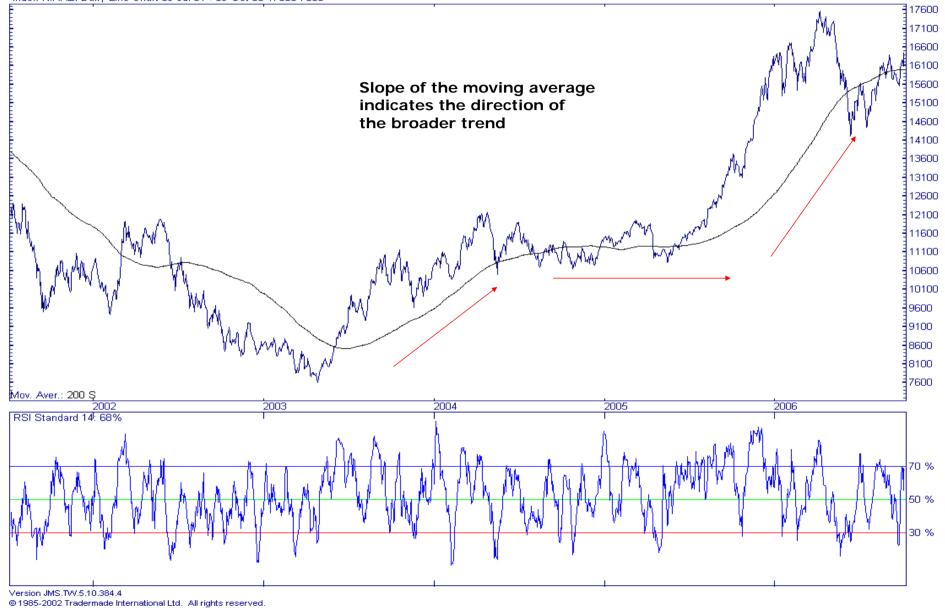
FTSE Weekly Chart Preset 122 - 25-Mar-02->30-Mar-07 FTSE100 Weekly Bar 6451.4 3278.7 © 6298.9 1048.4 0.0





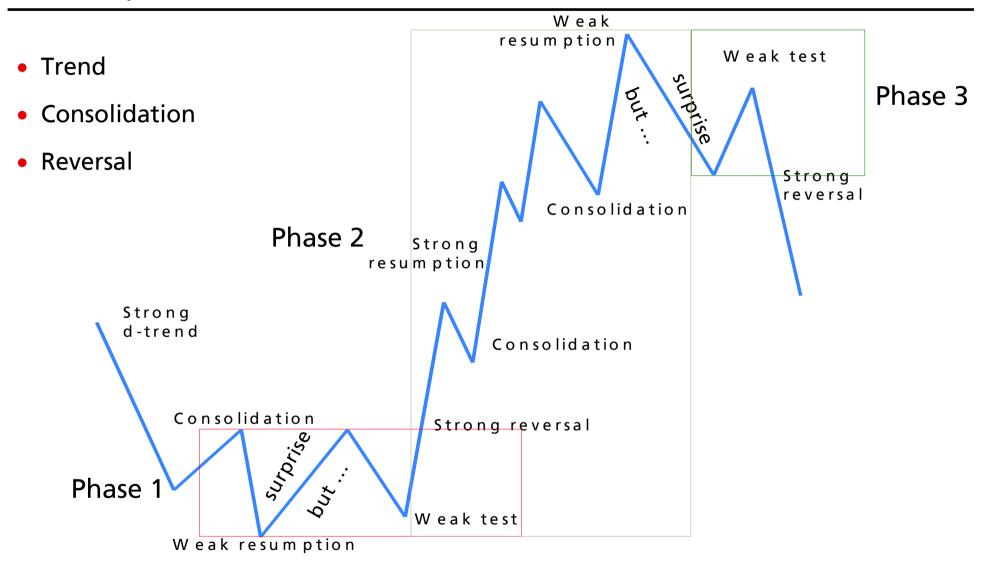
## Noise Reduction With Moving Averages







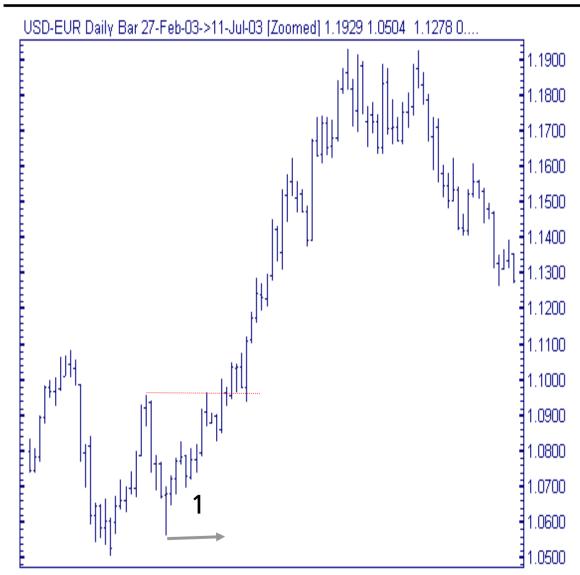
#### Anatomy of Price Action – 3 Phases



#### Market will always be in one of these 3 modes



# Three Phases - Phase 1

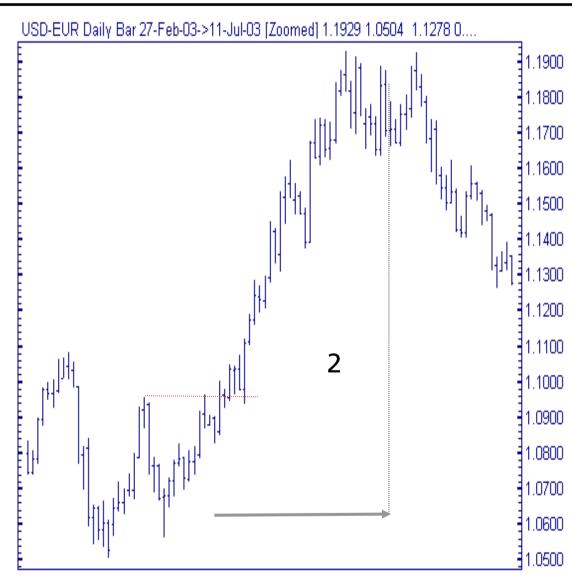


- A trend is very difficult to detect at this stage
- Very few traders and investors will actually open positions in this phase
- Economic news and cycles are generally still bad but improving
- No public participation
- Most traders will still be trying to sell into the rallies

Version JMS.TVV.5.10.384.4
© 1985-2002 Tradermade International Ltd. All rights reserved.



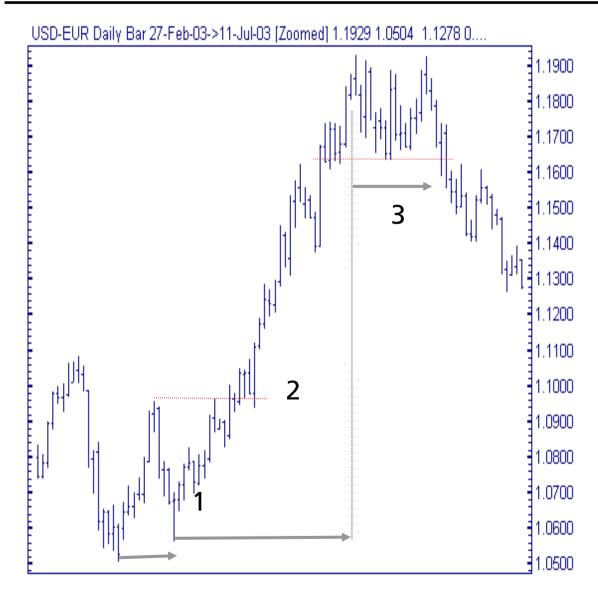
#### Phase 2



- Market exceeds previous high and trend is identified
- Traders begin to buy as bearish sentiment fades
- Economic news generally improving
- Media starts to report a new bull phase
- Public begins to participate
- Traders are now buying the dips
- Is the most powerful phase of the three and most profits are generated in this phase



## Phase 3



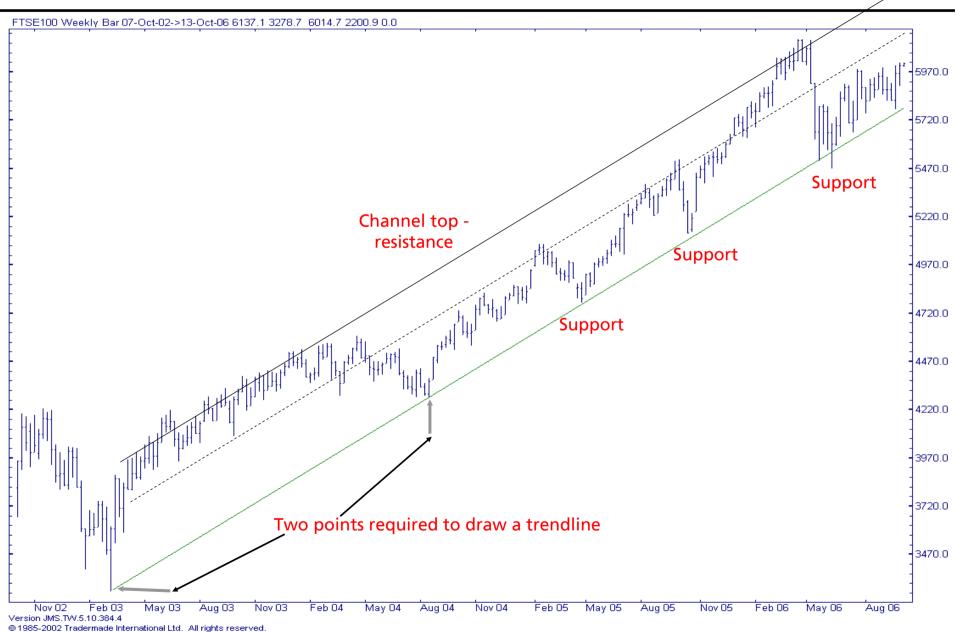
Version JMS.TW.5.10.384.4 © 1985-2002 Tradermade International Ltd. All rights reserved.

- Market once again exceeds previous top as trend is confirmed
- Fear of intervention makes traders wary
- Fundamental factors peaking
- Media still reporting positive news but
  - now wondering how far we can go
- Increased public participation
- A few scares and profit taking causes concern stops are raised
- Blow off occurs as stops triggered
- Generally the weakest of the three phases

## **Divergence Between Price And Momentum**





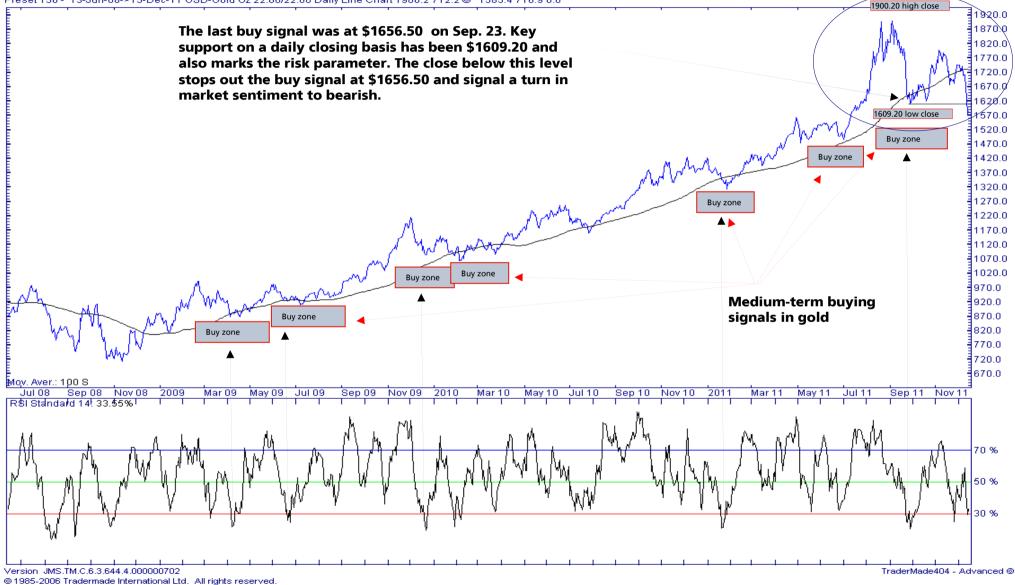




• Putting all this to the test

#### XAUUSD daily line chart

Preset 156 - 13-Jun-08->15-Dec-11 USD-Gold Oz 22:00/22:00 Daily Line Chart 1900.2 712.2 @ 1585.4 716.9 0.0



# **Trading The Trend And Risk Parameter**

#### EURUSD daily line chart

Preset 90 - 12-Jun-09->13-Dec-11 EUR-USD 22:00/22:00 Daily Line Chart 1.5136 1.1923 © 1.3193 (0.0919) 0.0000





EURUSD daily line chart Preset 90 - 27-Jul-09->27-Jan-12 EUR-USD 22:00/22:00 Daily Line Chart 1.5136 1.1923 © 1.3131 (0.1094) 0.0000





#### EURUSD 60-min bar chart

Preset 284 - 29-Dec-11->30-Jan-12 EUR-USD Hourly Bar 1.3229 1.2628 @ 1.3125 0.0199 0.0000



© 1985-2006 Tradermade International Ltd. All rights reserved.



#### EURUSD 60-min bar chart

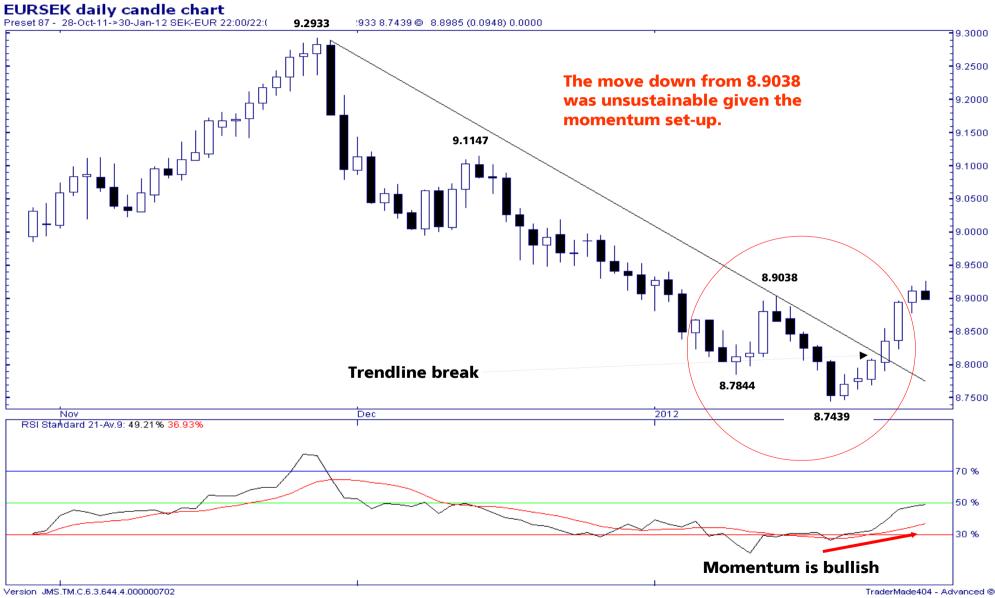
Preset 284 - 30-Dec-11->31-Jan-12 EUR-USD Hourly Bar 1.3229 1.2628 © 1.3196 0.0243 0.0000



© 1985-2006 Tradermade International Ltd. All rights reserved



## Define Trend Condition With Momentum



© 1985-2006 Tradermade International Ltd. All rights reserved.



# **Define Trend Condition With Momentum**

EURUSD daily candle chart Preset 91 - 30-Sep-11->30-Jan-12 EUR-USD 22:00/22:00 Daily Candle 1.4245 1.2628 © 1.3118 (0.0478) 0.0000





EURAUD daily bar chart Preset 272 - 29-Jan-10->30-Jan-12 AUD-EUR 22:00/22:00 Daily Bar 1.5955 1.2230 © 1.2428 (0.3191) 0.0000





USDJPY daily candle chart Preset 145 - 29-Jul-11->30-Jan-12 USD-JPY 22:00/22:00 Daily Candle 80.23 75.32 © 76.68 (1.02) 0.00



© 1985-2006 Tradermade International Ltd. All rights reserved.





# Where The Next Trends Will Come From

#### **Taso Anastasiou**

Strategist UBS AG, Tel + 41 44 239 91 04 taso.anastasiou@ubs.com

This document has been prepared by UBS Limited

February 2012

ANALYST CERTIFICATION AND REQUIRED DISCLOSURES BEGIN ON SLIDE 54





# EURUSD

Section 1



### **EURUSD – Is The Broad Correction Over?**



**WBS** 

## Theory: EURUSD – The Trend Identifier Approach

#### EURUSD daily line chart

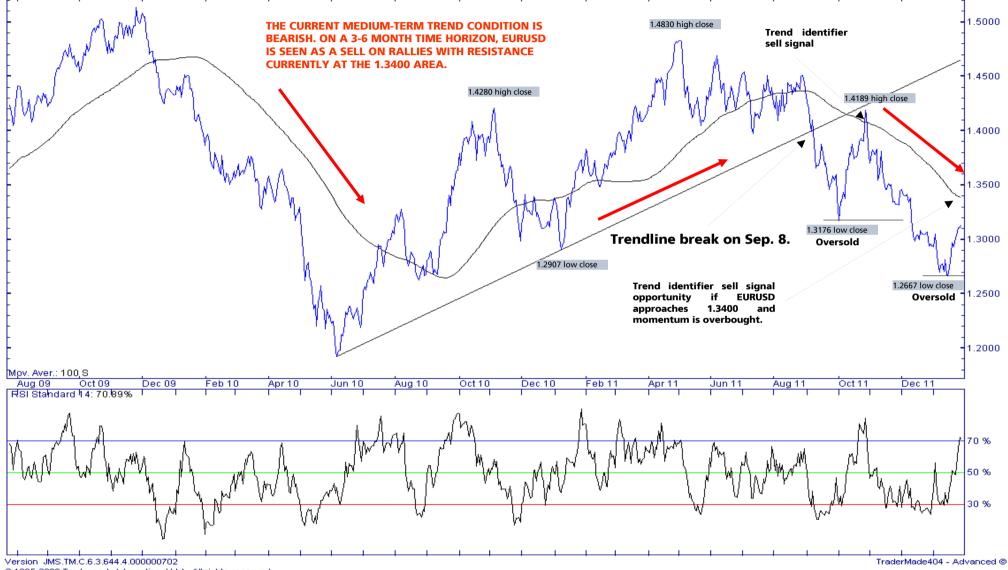
Preset 90 - 10-Aug-06->10-Feb-11 EUR-USD 22:00/22:00 Daily Line Chart 1.5993 1.1923 © 1.3642 0.0782 0.0000



**WBS** 

## **Define Trend And Risk Parameter**

EURUSD daily line chart Preset 90 - 27-Jul-09->27-Jan-12 EUR-USD 22:00/22:00 Daily Line Chart 1.5136 1.1923 © 1.3131 (0.1094) 0.0000



© 1985-2006 Tradermade International Ltd. All rights reserved



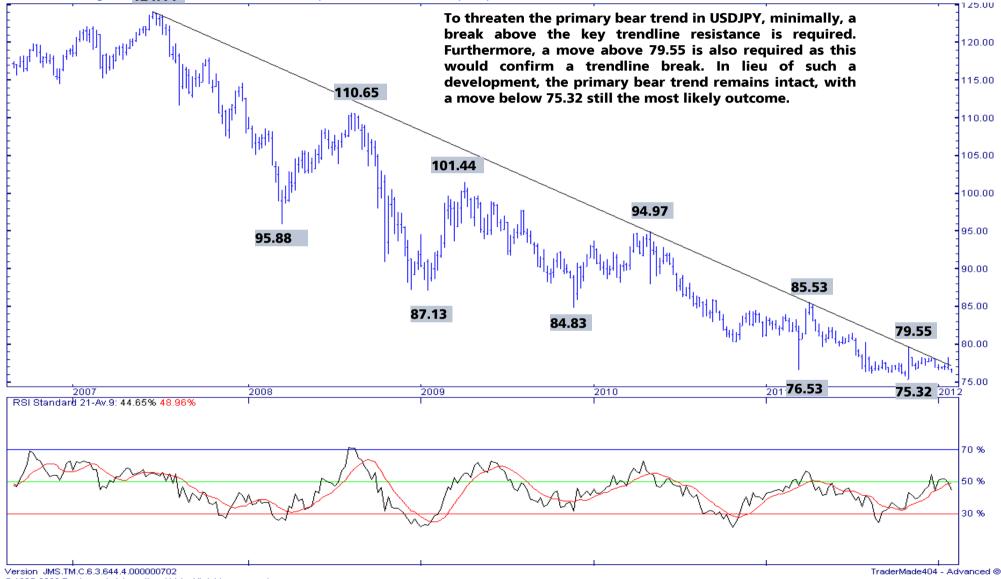
Section 2

# JPY



### **USDJPY – Trading Below 54-Month Trendline**

USDJPY weekly bar chart Preset 143 - 28-Aug-06->(124.14 JSD-JPY 22:00/22:00 Weekly Bar 124.14 75.32 © 76.40 (40.82) 0.00



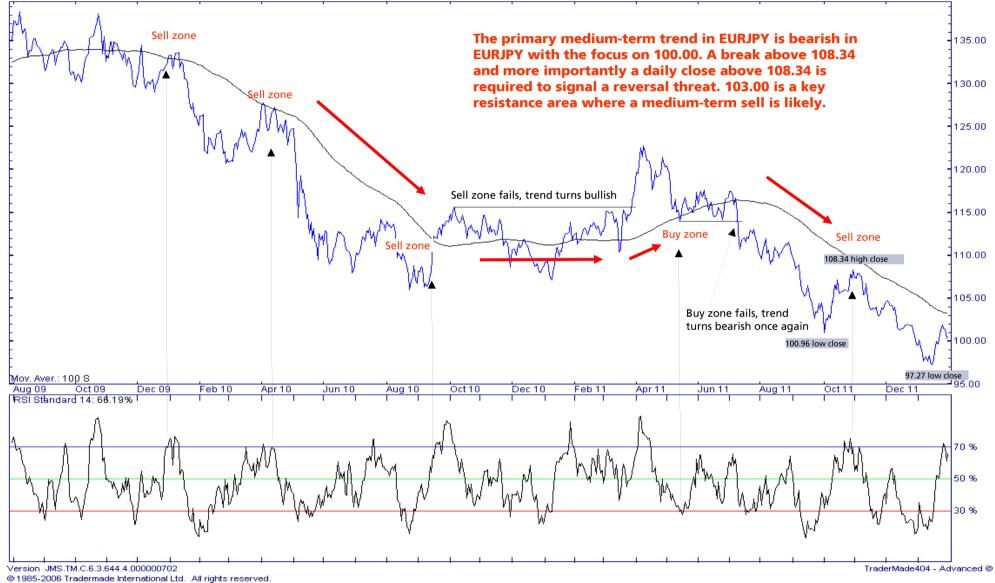
© 1985-2006 Tradermade International Ltd. All rights reserved.



### **EURJPY – Bear Threat Still Dominates**

EURJPY daily line chart

Preset 78 - 31-Jul-09->31-Jan-12 JPY-EUR 22:00/22:00 Daily Line Chart 138.39 97.27 @ 100.62 (33.92) 0.00





#### Section 3

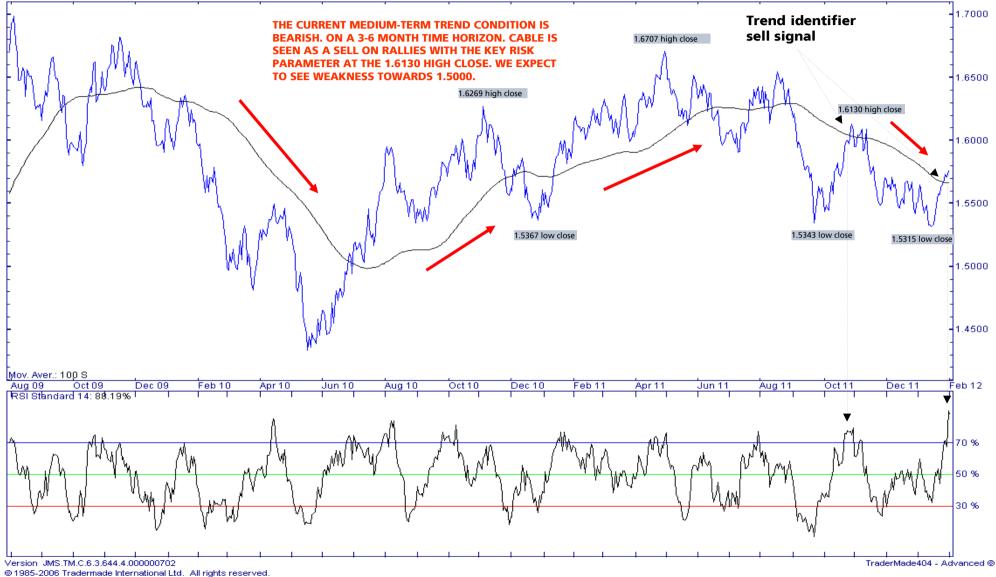
# GBP



### GBPUSD – 3 To 6 Month Outlook, Trend Is Bearish

#### **GBPUSD** daily line chart

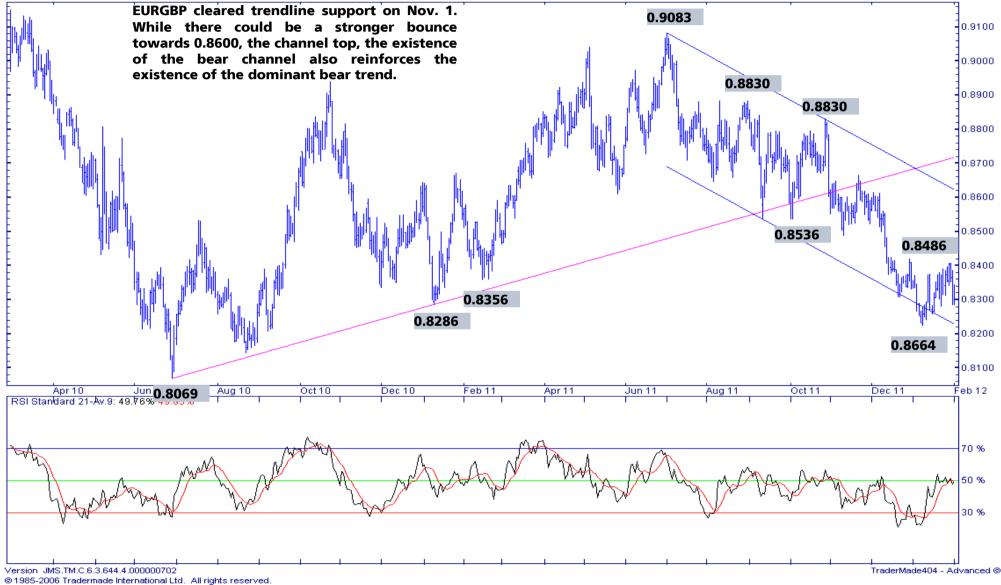
Preset 12 - 31-Jul-09->01-Feb-12 GBP-USD 22:00/22:00 Daily Line Chart 1.6989 1.4335 @ 1.5747 (0.0750) 0.0000





### **EURGBP – Bears In Control**

EURGBP daily bar chart Preset 75 - 01-Mar-10->01-Feb-12 GBP-EUR 22:00/22:00 Daily Bar 0.9150 0.8069 © 0.8335 (0.0654) 0.0000

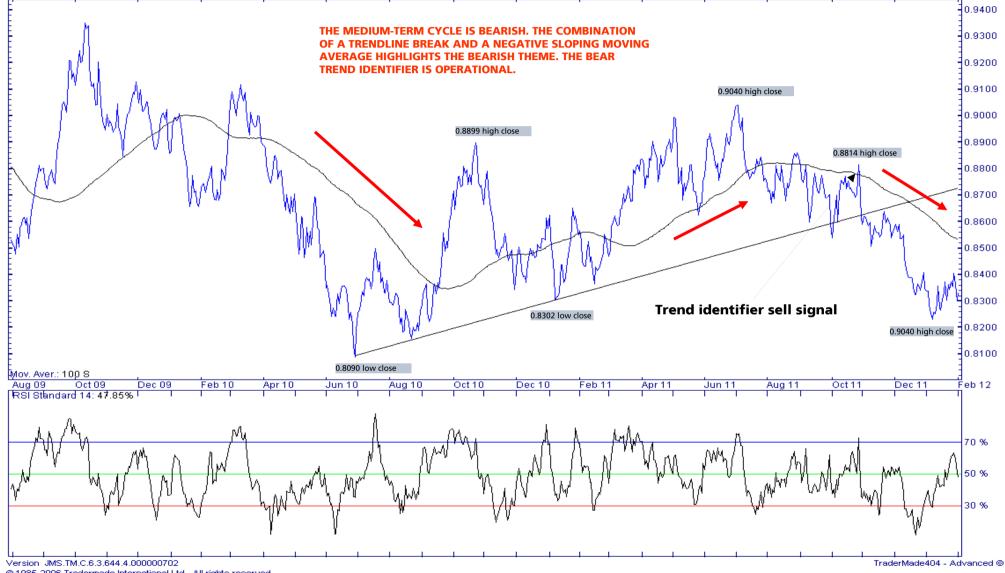


BS

### **EURGBP – Trend Identifier Is Bearish**

#### EURGBP daily line chart

Preset 74 - 31-Jul-09->01-Feb-12 GBP-EUR 22:00/22:00 Daily Line Chart 0.9351 0.8090 © 0.8333 (0.0199) 0.0000



© 1985-2006 Tradermade International Ltd. All rights reserved.



Section 4

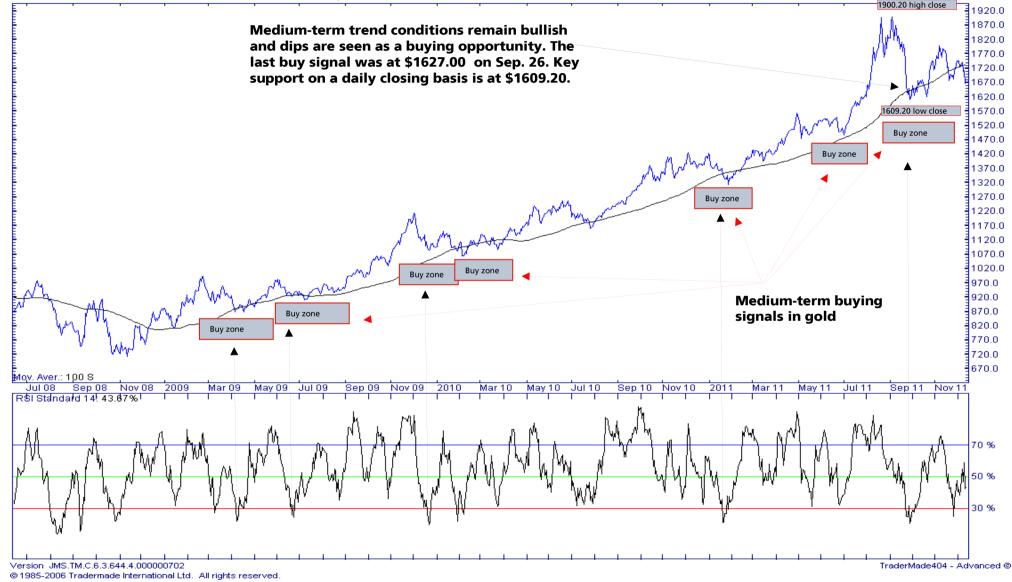
# GOLD



### Gold – Primary Bull Trend Intact: Early Dec.

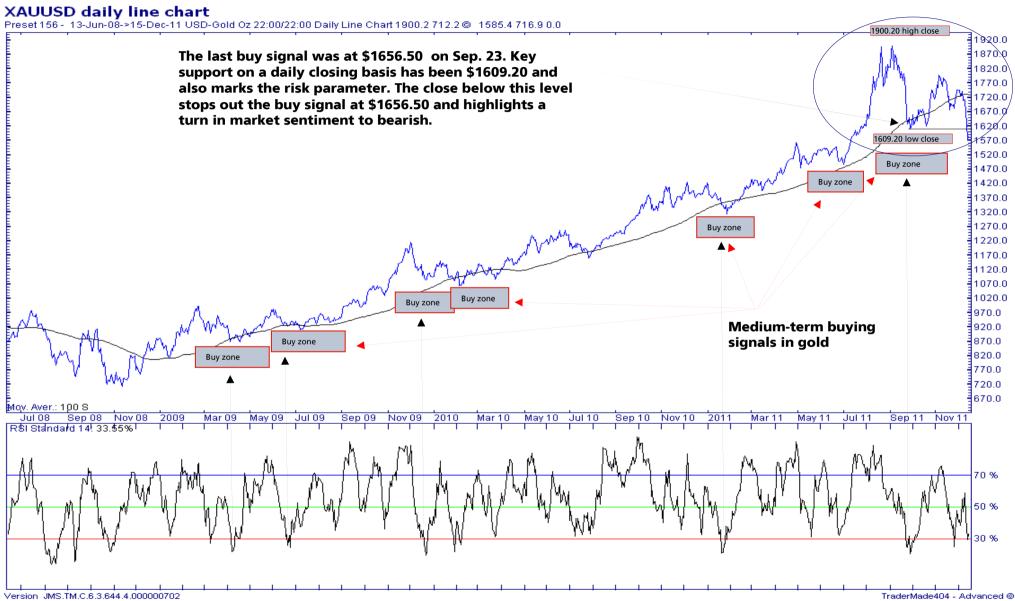
#### XAUUSD daily line chart

Preset 156 - 13-Jun-08->13-Dec-11 USD-Gold Oz 22:00/22:00 Daily Line Chart 1900.2 712.2 @ 1666.0 797.5 0.0





### **Gold – Primary Bull Trend Threatened**



© 1985-2006 Tradermade International Ltd. All rights reserved.



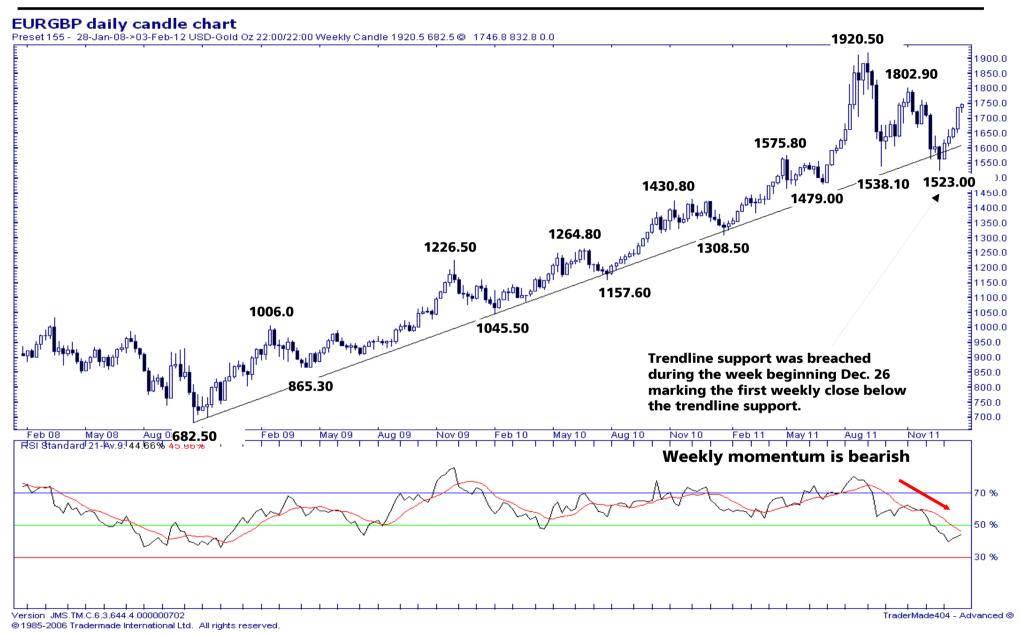
### Gold – Trendline Support: Mid Dec.



@1985-2006 Tradermade International Ltd. All rights reserved.



### **Gold – Trendline Support**



**WBS** 

### **Gold – Primary Bull Trend Threatened**

#### Gold daily line chart

Preset 156 - 31-Jul-09->01-Feb-12 USD-Gold Oz 22:00/22:00 Daily Line Chart 1900.2 934.6 © 1746.3 811.9 0.0



**WBS** 

#### **Research Contacts**

#### G10 Strategy

Mansoor	Beat	Geoffrey
Mohi-uddin	Siegenthaler	Yu
+65 6495 86 04	+41 44 239 95 47	+44 207 568 06 05
Gareth	Manuel	Chris
Berry	Oliveri	Walker
+65 6495 52 32	+41 44 239 33 39	+44 207 567 13 11

#### Emerging Markets Strategy

Bhanu	Alvaro	Manik
Baweja	Vivanco	Narain
+44 207 568 68 33	719	+44 207 567 32 18

#### **Technical Strategy**

Taso

**Anastasiou** +41 44 239 91 04

#### <u>Commodity</u>

**Edel Tully** +44 207 567 67 55 ī.

## **Analyst Certification and Required Disclosures**

#### **Analyst Certification**

Each research analyst primarily responsible for the content of this research report, in whole or in part, certifies that with respect to each security or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about those securities or issuers and were prepared in an independent manner, including with respect to UBS, and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed by that research analyst in the research report.

#### **Required Disclosures**

This report has been prepared by UBS Limited, an affiliate of UBS AG. UBS AG, its subsidiaries, branches and affiliates are referred to herein as UBS.

For information on the ways in which UBS manages conflicts and maintains independence of its research product; historical performance information; and certain additional disclosures concerning UBS research recommendations, please visit www.ubs.com/disclosures. The figures contained in performance charts refer to the past; past performance is not a reliable indicator of future results. Additional information will be made available upon request. UBS Securities Co. Limited is licensed to conduct securities investment consultancy businesses by the China Securities Regulatory Commission.

## **Global Disclaimer**

This report has been prepared by UBS Limited, an affiliate of UBS AG. UBS AG, its subsidiaries, branches and affiliates are referred to herein as UBS. In certain countries, UBS AG is referred to as UBS SA.

This report is for distribution only under such circumstances as may be permitted by applicable law. Nothing in this report constitutes a representation that any investment strategy or recommendation contained herein is suitable or appropriate to a recipient's individual circumstances or otherwise constitutes a personal recommendation. It is published solely for information purposes, it does not constitute an advertisement and is not to be construed as a solicitation or an offer to buy or sell any securities or related financial instruments in any jurisdiction. No representation or warranty, either express or implied, is provided in relation to the accuracy, completeness or reliability of the information contained herein, except with respect to information concerning UBS AG, its subsidiaries and affiliates, nor is it intended to be a complete statement or summary of the securities, markets or developments referred to in the report. UBS does not undertake that investors will obtain profits, nor will it share with investors any investment profits nor accept any liability for any investment losses. Investments involve risks and investors should exercise prudence in making their investment decisions. The report should not be regarded by recipients as a substitute for the exercise of their own judgement. Past performance is not necessarily a guide to future performance. The value of any investment or income may go down as well as up and you may not get back the full amount invested. Any opinions expressed in this report are subject to change without notice and may differ or be contrary to opinions expressed by other business areas or groups of UBS as a result of using different assumptions. Culd result in materially different results. The analyst(s) responsible for the preparation of this report may interact with trading desk personnel, sales personnel and other constituencies for the purpose of gathering, synthesizing and interpreting market information. UBS is under no obligation to update or keep current the info

The securities described herein may not be eligible for sale in all jurisdictions or to certain categories of investors. Options, derivative products and futures are not suitable for all investors, and trading in these instruments is considered risky. Mortgage and asset-backed securities may involve a high degree of risk and may be highly volatile in response to fluctuations in interest rates and other market conditions. Past performance is not necessarily indicative of future results. Foreign currency rates of exchange may adversely affect the value, price or income of any security or related instrument mentioned in this report. For investment advice, trade execution or other enquiries, clients should contact their local sales representative. Neither UBS nor any of its affiliates, nor any of its affiliates, directors, employees or agents accepts any liability for any loss or damage arising out of the use of all or any part of this report. For financial instruments admitted to trading on an EU regulated market: UBS AG, its affiliates or subsidiaries (excluding UBS Securities LLC and/or UBS Capital Markets LP) acts as a market maker or liquidity provider (in accordance with the interpretation of these terms in the UK) in the financial instruments of the issuer save that where the activity of liquidity provider is carried out in accordance with the definition given to it by the laws and regulations of any other EU jurisdictions, such information is separately disclosed in this research report. UBS and its affiliates and employees may have long or short positions, trade as principal and buy and sell in instruments or derivatives identified herein.

Any prices stated in this report are for information purposes only and do not represent valuations for individual securities or other instruments. There is no representation that any transaction can or could have been effected at those prices and any prices do not necessarily reflect UBS's internal books and records or theoretical model-based valuations and may be based on certain assumptions. Different assumptions, by UBS or any other source, may yield substantially different results.

## **Global Disclaimer**

United Kingdom and the rest of Europe: Except as otherwise specified herein, this material is communicated by UBS Limited, a subsidiary of UBS AG, to persons who are eligible counterparties or professional clients and is only available to such persons. The information contained herein does not apply to, and should not be relied upon by, retail clients, UBS Limited is authorised and regulated by the Financial Services Authority (FSA). UBS research complies with all the FSA requirements and laws concerning disclosures and these are indicated on the research where applicable. France: Prepared by UBS Limited and distributed by UBS Limited and UBS Securities France SA, UBS Securities France SA, is regulated by the Autorité des Marchés Financiers (AMF). Where an analyst of UBS Securities France SA, has contributed to this report, the report is also deemed to have been prepared by UBS Securities France S.A. Germany: Prepared by UBS Limited and distributed by UBS Limited and UBS Deutschland AG. UBS Deutschland AG is regulated by the Bundesanstalt fur Finanzdienstleistungsaufsicht (BaFin). Spain: Prepared by UBS Limited and distributed by UBS Limited and UBS Securities España SV, SA. UBS Securities España SV, SA is regulated by the Comisión Nacional del Mercado de Valores (CNMV). Turkey: Prepared by UBS Menkul Degerler AS on behalf of and distributed by UBS Limited. Russia: Prepared and distributed by UBS Securities CJSC. Switzerland: Distributed by UBS AG to persons who are institutional investors only. Italy: Prepared by UBS Limited and distributed by UBS Limited and UBS Italia Sim S.p.A., UBS Italia Sim S.p.A. is regulated by the Bank of Italy and by the Commissione Nazionale per le Società e la Borsa (CONSOB). Where an analyst of UBS Italia Sim S.p.A. has contributed to this report, the report is also deemed to have been prepared by UBS Italia Sim S.p.A.. South Africa: UBS South Africa (Ptv) Limited (Registration No. 1995/011140/07) is a member of the JSE Limited, the South African Futures Exchange and the Bond Exchange of South Africa, UBS South Africa (Ptv) Limited is an authorised Financial Services Provider. Details of its postal and physical address and a list of its directors are available on request or may be accessed at http://www.ubs.co.za. United States: Distributed to US persons by either UBS Securities LLC or by UBS Financial Services Inc., subsidiaries of UBS AG; or by a group, subsidiary or affiliate of UBS AG that is not registered as a US broker-dealer (a 'non-US affiliate'). to maior US institutional investors only. UBS Securities LLC or UBS Financial Services Inc. accepts responsibility for the content of a report prepared by another non-US affiliate when distributed to US persons by UBS Securities LLC or UBS Financial Services Inc. All transactions by a US person in the securities mentioned in this report must be effected through UBS Securities ILC or UBS Financial Services Inc., and not through a non-US affiliate. Canada: Distributed by UBS Securities Canada Inc., a subsidiary of UBS AG and a member of the principal Canadian stock exchanges & CIPE. A statement of its financial condition and a list of its directors and senior officers will be provided upon request. Hong Kong: Distributed by UBS Securities Asia Limited. Singapore: Distributed by UBS Securities Pte. Ltd [mica (p) 039/11/2009 and Co. Reg. No.: 198500648C] or UBS AG, Singapore Branch, Please contact UBS Securities Pte Ltd, an exempt financial advisor under the Singapore Financial Advisers Act (Cap. 110); or UBS AG Singapore branch, an exempt financial adviser under the Singapore Financial Advisers Act (Cap. 110) and a wholesale bank licensed under the Singapore Banking Act (Cap. 19) regulated by the Monetary Authority of Singapore, in respect of any matters arising from, or in connection with, the analysis or report. The recipient of this report represent and warrant that they are accredited and institutional investors as defined in the Securities and Futures Act (Cap. 289). Japan: Distributed by UBS Securities Japan Ltd to institutional investors only. Where this report has been prepared by UBS Securities Japan Ltd, UBS Securities Japan Ltd is the author, publisher and distributor of the report. Australia: Distributed by UBS AG (Holder of Australian Financial Services License No. 231087) and UBS Securities Australia Ltd (Holder of Australian Financial Services License No. 231098) only to 'Wholesale' clients as defined by s761G of the Corporations Act 2001. New Zealand: Distributed by UBS New Zealand Ltd. An investment adviser and investment broker disclosure statement is available on request and free of charge by writing to PO Box 45. Auckland, NZ. Dubai: The research prepared and distributed by UBS AG Dubai Branch, is intended for Professional Clients only and is not for further distribution within the United Arab Emirates. Korea: Distributed in Korea by UBS Securities Pte. Ltd., Seoul Branch, This report may have been edited or contributed to from time to time by affiliates of UBS Securities Pte. Ltd., Seoul Branch, Malaysia; This material is authorized to be distributed in Malaysia by UBS Securities Malaysia Sdn. Bhd (253825-x). India : Prepared by UBS Securities India Private Ltd. 2/F.2 North Avenue, Maker Maxity, Bandra Kurla Complex, Bandra (East), Mumbai (India) 400051. Phone: +912261556000 SEBI Registration Numbers: NSE (Capital Market Segment): INB230951431, NSE (F&O Segment) INF230951431, BSE (Capital Market Segment) INB010951437.

The disclosures contained in research reports produced by UBS Limited shall be governed by and construed in accordance with English law.

UBS specifically prohibits the redistribution of this material in whole or in part without the written permission of UBS and UBS accepts no liability whatsoever for the actions of third parties in this respect. Images may depict objects or elements which are protected by third party copyright, trademarks and other intellectual property rights. © UBS 2012. The key symbol and UBS are among the registered and unregistered trademarks of UBS. All rights reserved.

**UBS Limited** 100 Liverpool Street

London EC2M 2RH

Tel: +44-207-567 8000

www.ubs.com

