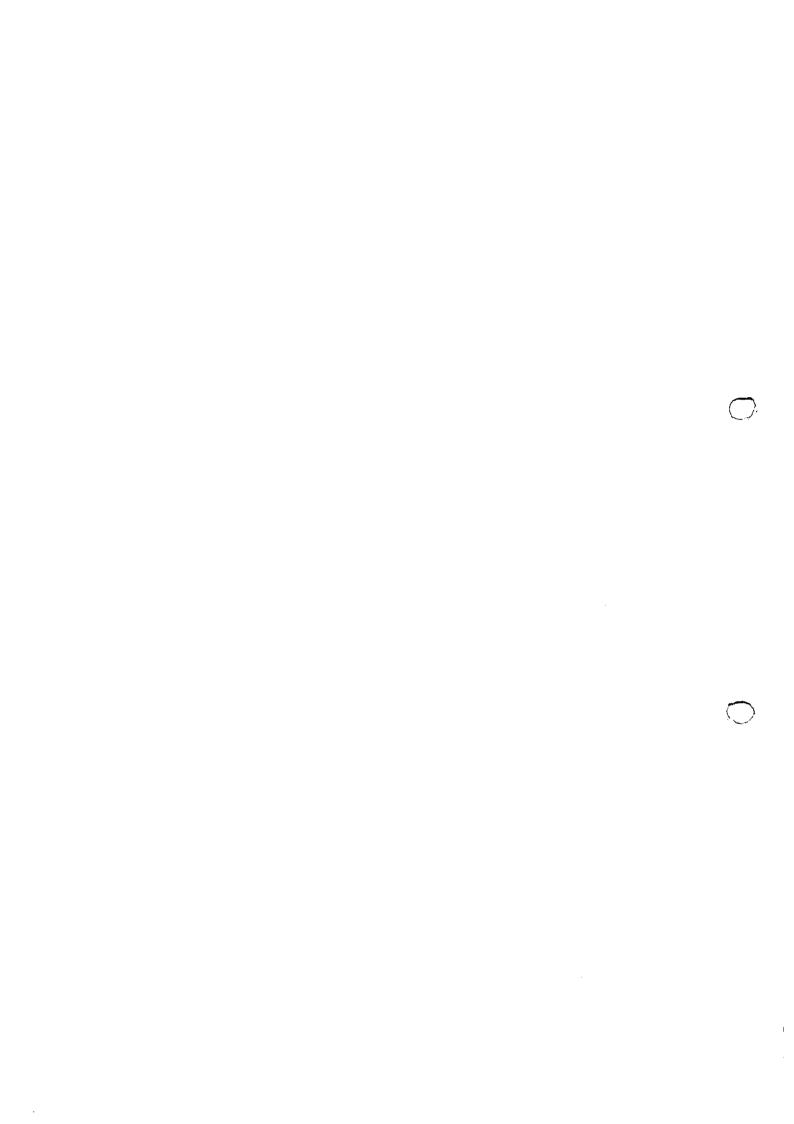


Andrew Robertson has over 20 years experience in Financial Markets spanning banking and regulatory roles. He is currently the Head of CIB Compliance for Deutsche Bank AG Singapore Branch and has responsibility for Markets Compliance - Asia. In this role he works closely with Senior GM Management, Businesses and local Compliance officers providing advice and guidance on the mitigation of compliance risk for significant transactional, regulatory and reputational matters. He has been with Deutsche Bank in Singapore since 2004.

Andrew was previously the Asia Pacific (ex Japan) Regional Head of Compliance Risk Assessment at UBS AG where he was responsible for performing independent evaluations on the adequacy of policies, procedures and systems of the firm to provide reasonable assurance that significant regulatory and compliance issues within the Business areas were identified and mitigated.

Andrew was the Head of the Surveillance Department at the Sydney Futures Exchange with primary responsibility for market supervision and enforcement before taking roles as Head of Global Markets Compliance at NatWest Markets Australia and Deutsche Bank AG Sydney.



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> Derivatives: Regulatory Challenges from an Industry Perspective

IOSCO STP 2011, Kuala Lumpur

Passion to Perform

Andrew Robertson 29 November 2011

Agenda

7

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- · Derivatives Overview
- · Derivatives and the Financial Crisis
- Regulatory Reaction to Crisis
- Key Issues When Analysing Derivatives Transactions
- · Derivatives Case Study
- · Avoiding Problems with Derivatives
- Appendix



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The Challenge -

To continue to provide timely and appropriate advice to the 25 different CIB Businesses and Infrastructure functions across 14 disparate countries with varying degrees of regulatory maturity and consistency where: the public/private divide is continually blurring; the traditional business - product mandate is being challenged; major changes in distribution platforms; core functions are being outsourced; increased cross jurisdictional deals and boundaries, silos and markets are constantly challenged, requiring a greater knowledge of business direction, products, cross jurisdictional regulations and market practices, ensuring adequate coordination and communication across relevant Risk groups taking into account commercial, cultural, political and reputational sensitivities within an ever decreasing timeframe and continually shifting business and regulatory environment

(AND AT ALL TIMES MAINTAIN A CHEERFUL AND POSITIVE DISPOSITION).

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	Derivatives Overview	
Deutsche Bank Risk	Andrew Robertson 29 Nov 2011	3

What are derivatives?

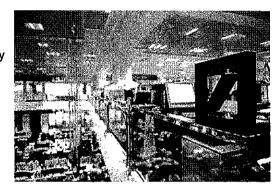


Key point is that derivatives are very diverse:

- Diverse underlying products
- Traded OTC or on exchange
- Very leveraged . . . or not
- Cash-settled vs. physical delivery
- Synthetic

Types of derivatives:

- Swaps
- Forwards and Futures
- **Options**
- Structured Products

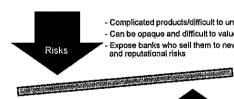


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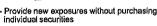
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Should we use them?





- Complicated products/difficult to understand
- Can be opaque and difficult to value
- Expose banks who sell them to new legal and reputational risks



- Can be tailored to meet investors' needs in terms of variable exposure
- Diversification of portfolios



Some Views on Derivatives

- "What the critics of derivatives fail to realize is that the markets for these instruments have become so large not because of slick sales campaigns, but because they are providing economic value to their users." Alan Greenspan,
- "Derivatives are financial weapons of mass destruction, carrying dangers that, while now latent, are potentially tethal." Warren Buffet, 2002
- Derivatives are something like electricity: dangerous if mishandled, but bearing the potential to do good." Arthur Leavitt, 1995
- *People develop a product which makes a modicum of sense, then they extend it to the point of ludicrousness." Satyajit Das, former Citigroup derivatives banker and author of Traders, Guns & Money,

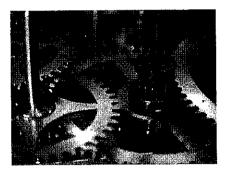
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How do they work?

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Gearing (sometimes called participation)

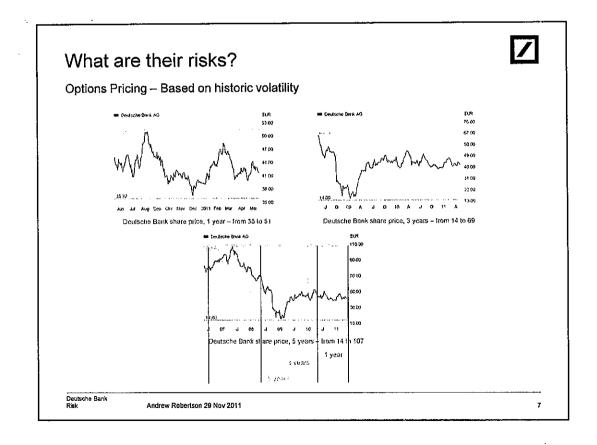
- Refers to the exposure of a derivative to movements in the underlying asset
- Exposures can be capped



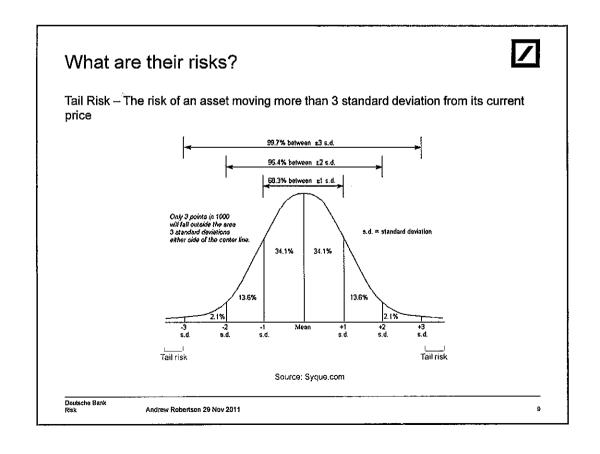
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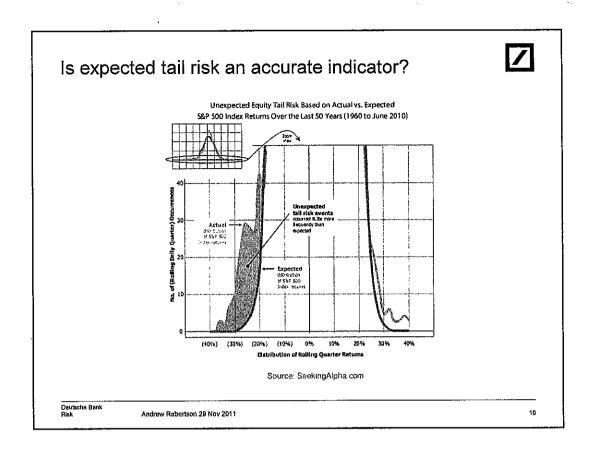
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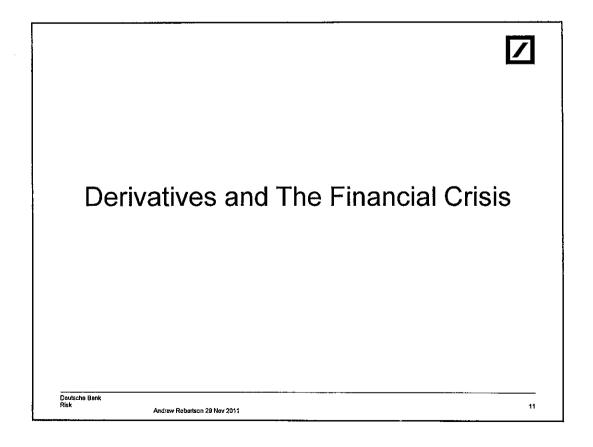
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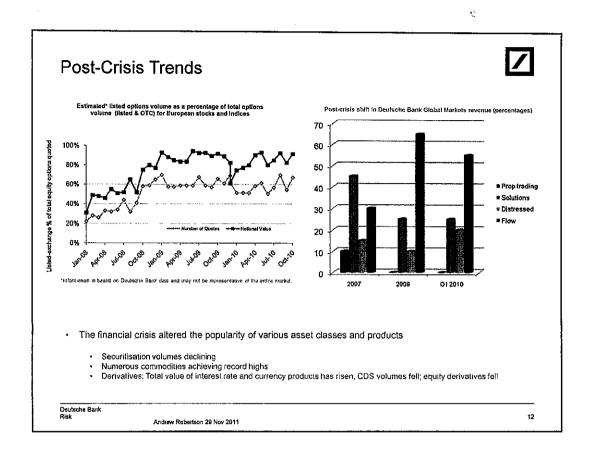


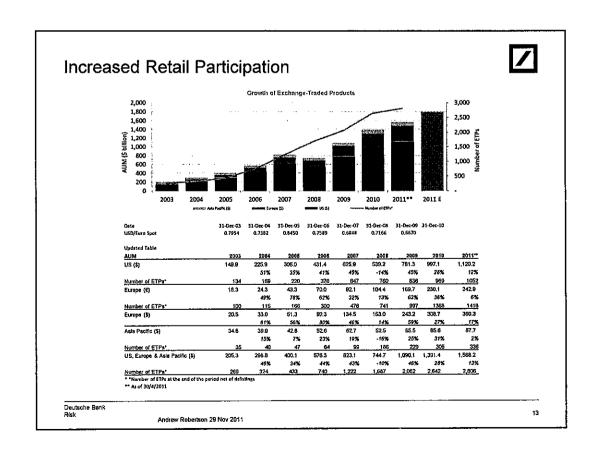
What are their risks? Correlation – Based on historic norms Correlation of Returns Among US Asset Classes Between 1970-2006 Lega C. p. 1.000 Lega C. p. 1.000 Lega C. p. 1.000 Lega C. p. 0.759 2.000 Social C. p. 1.000 Lega C. p. 0.759 2.000 Social C. p. 1.000 Lega C. p. 0.759 2.000 Lega C. p. 0.759 2.0000 Lega C. p. 0.759 2.000 Lega C. p. 0.759 2.000 Lega C. p. 0

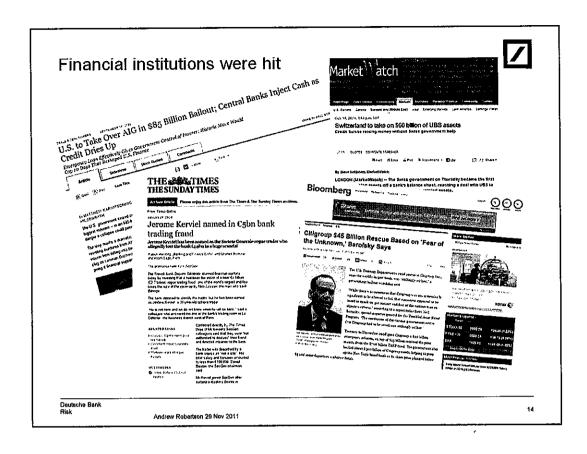


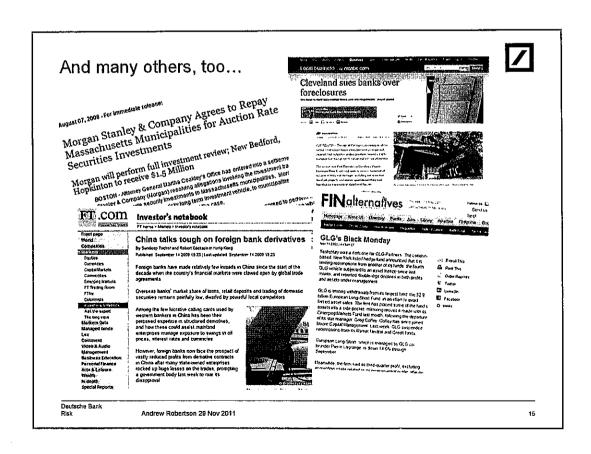




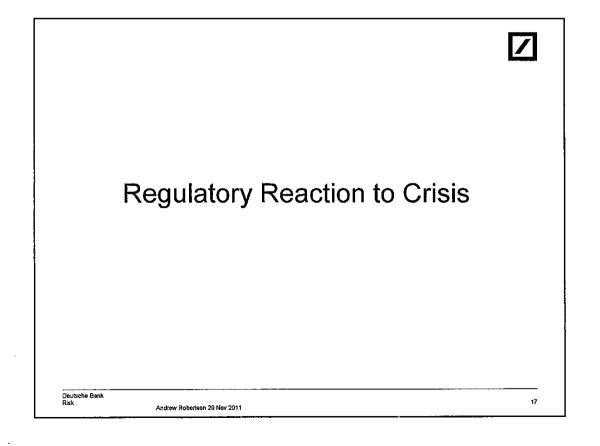








Lessons Learned Major Investment Banks Banks and Other Financial Institutions Corporations Home Owners and Investors Hedge Funds Governments and Municipalities



IOSCO Task Force

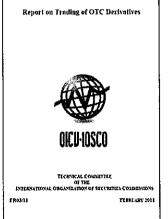


IOSCO Task Force on OTC derivatives regulation (October 2010):

- Seeks to develop consistent international standards;
- Coordinates other international initiatives; and
- Serves as a centralized group within IOSCO through which IOSCO members can consult and coordinate on issues

First 54-page report on Trading of OTC Derivatives issued in February. Further reports due on:

- · Data Reporting and Aggregation
- International Standards



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EU Regulation of Derivatives

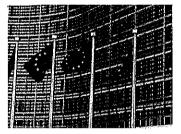


A 15 September 2010 European Commission proposal is designed to facilitate:

- · Greater transparency;
- · Greater safety: reducing counterparty risks; and
- · Greater safety: reducing operational risk

Parties attempting to reach agreement before the end of Hungary's EU Presidency

Proposed adjustments to the Capital Requirements Directive (CRD) also will affect derivatives



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US Regulation of Derivatives

Dodd-Frank Wall Street Reform & Consumer Protection Act of 2010

- · Known as the "Dodd-Frank Act"
- · Signed into law on 21 July 2010
- Title VII (Wall Street Transparency and Accountability Act of 2010) provides for the comprehensive regulation of:
 - Swaps (regulated by the CFTC)
 - Security-based swaps (regulated by the SEC)
 - "Mixed swaps" (joint regulation by the CFTC/SEC)



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The Dodd-Frank Act – Implementation

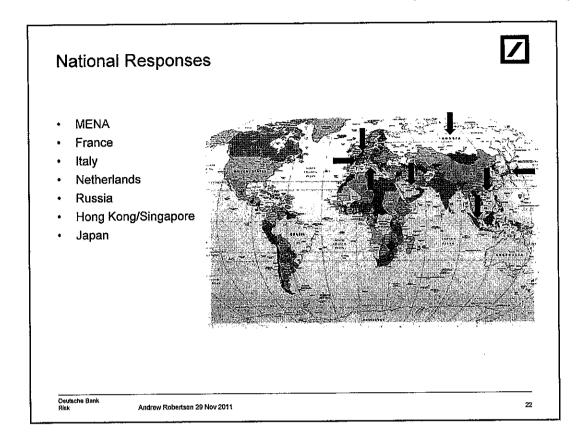


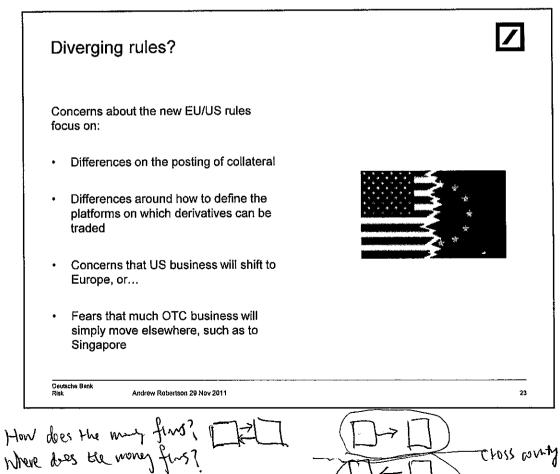


- With certain explicit exceptions, the CFTC and the SEC must individually publish required rules within 360 days of enactment (by 15 July 2011)
- Following passage of the Dodd-Frank Act, US financial regulators have entered into an intense period of rulemaking
- The Act requires approximately 243 rulemakings and 67 studies
- The CFTC, the SEC and other agencies have already adopted several interim final rules and issued proposed rules in a number of areas

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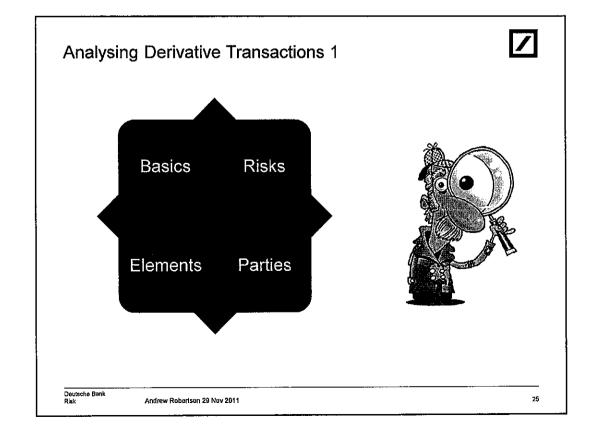
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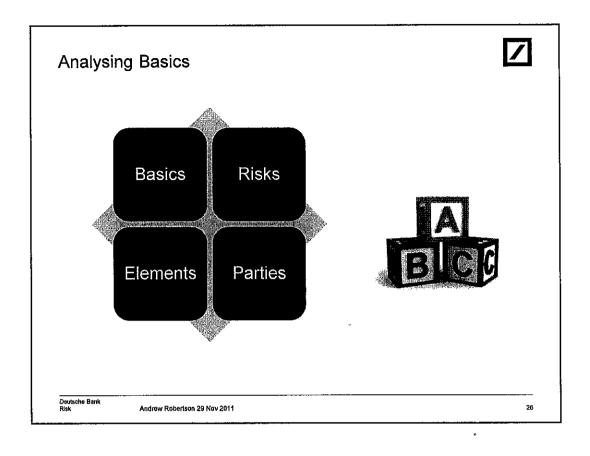




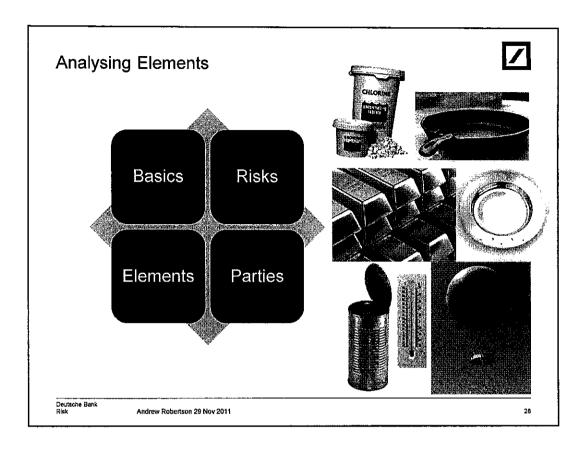
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Key Issues When Analysing Derivatives Transactions





1. Diagram the cash flows of the trade. 2. Is there an economic purpose to the trade? 3. If there is an option, does it have "optionality"? 4. Are all economics of the trade "on market?" 5. Do the maturities of the various instruments in the transactions match? 6. Is the legal documentation standardized?



Elements of the Transaction 1



Term Sheet

- 7. Does the Term Sheet match the description of the trade?
- 8. Does the Term Sheet and all other relevant deal documentation contain the required content, risk descriptions, and disclosures?
- 9. Does the Term Sheet refer to any other documents, side letters, etc.?

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Elements of the Transaction 2



Type of Transaction

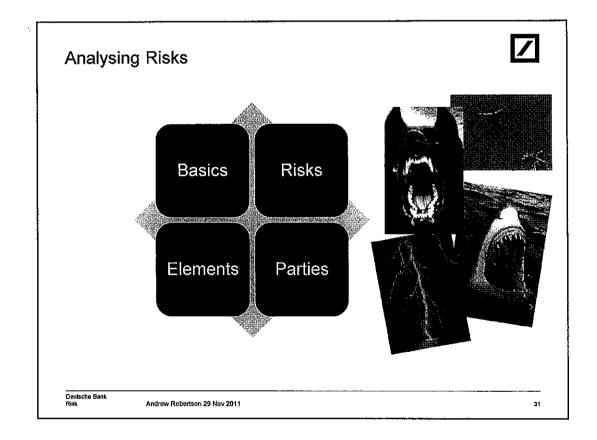
- 10. Is this a restructuring of an existing transaction?
- 11. Is the transaction a historic cost or rate rollover transaction?
- 12. Is the instrument capable of being on-sold? Can the transaction be broken down into smaller sizes?

<u>Jurisdiction</u>

- 13. Does the offer comply with the public offer rules of the jurisdiction?
- 14. Are there any restrictions around the particular instrument being sold into the intended jurisdiction?

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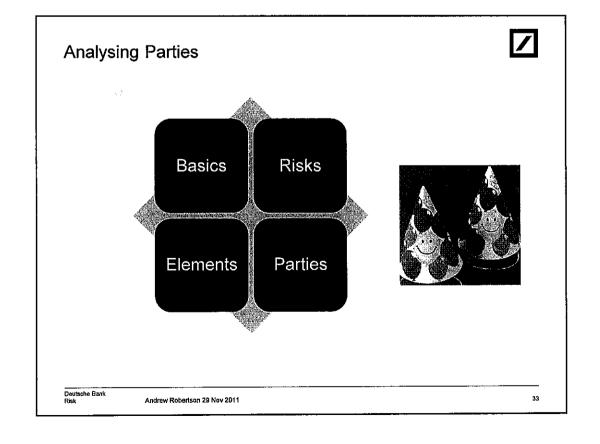
Risks



- 15. Are there any tax risks in the transaction, tax charges, or tax advantages?
- 16. Are there any accounting risks or accounting advantages associated with the transaction?
- 17. Does the transaction involve any other reputational risk exposure for the Bank?

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Parties to the Transaction 1



Bank-Specific Issues

- 18. What is the Bank's P&L in the trade?
- 19. Are there any unusual benefits to the Bank?
- 20. Has the Bank done a similar transaction before?
- 21. Does the transaction call for any continuing activities on behalf of the Bank, such as providing liquidity, providing published quotes, etc.?
- 22. Does the transaction call for the Bank to actively manage any related instruments?

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Parties to the Transaction 2



Client-Specific Issues

- 23. Is the client-type one that may need extra protection/diligence?
 - Municipality, small corporate, charitable organization, non-profit, etc.
 - See "Enhanced Suitability/Appropriateness Controls"
- 24. Does the Client understand the transaction?
- 25. Does the Client have capacity to enter the transaction?
- 26. What is the Client's motivation for entering into the transaction?
- 27. Is the transaction consistent with the Client's investment objectives?
- 28. Is the transaction compatible with the size, condition, and nature of the Client's business?

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Parties to the Transaction 3



Client-Specific Issues(cont.)

- 29. Does it make sense for this Client to enter into this transaction?
- 30. Has the Client done a similar transaction before?
- 31. Is the Client making an independent investment decision or are they being advised by properly qualified advisors?
- 32. Is the Client going to have external counsel to review the transaction documentation?
- 33. Is the return commensurate with all the risk the Client is taking?

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Derivatives Case Study

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Case Study



Legal Description

- The securities are generally principal protected interest bearing securities which
 pay a coupon linked to an index. The securities are obligations of the Issuer and are
 not secured by any collateral.
- The redemption notes ("Notes") will pay a coupon until the cumulative interest earned equals "X%" (the TARGET set on the deal). In Year One the Notes will pay a coupon at a rate of "Y%", or periodic. From Year Two until maturity, the Notes will pay a coupon based on the following formula:

W% minus (2 times 6 month LIBOR) with a minimum coupon of 0% in any period. When the Cumulative Interest has reached X% the principal investment will be returned and the Security will be redeemed.

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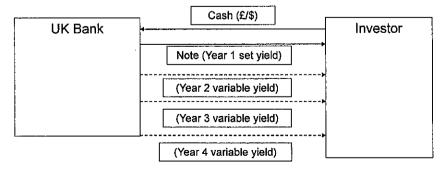
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Plain English



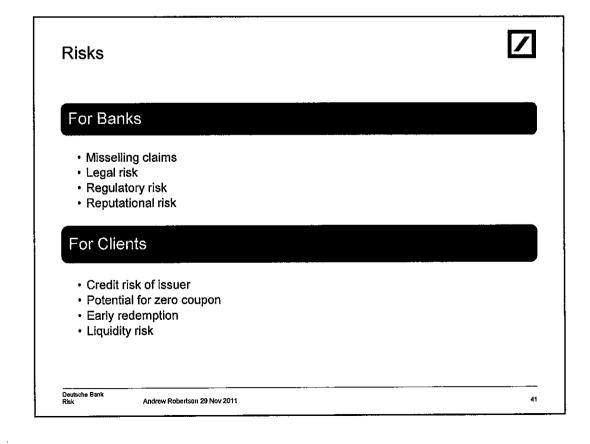
- For example, investors requiring a 10% return would receive a 5% coupon in year one and then variable semi-annual coupons.
- · Continue to receive semi-annual coupons until they have generated the 10% return.
- Upon reaching the 10% return the note is redeemed and the principal returned. This
 is known as a "knock-out" feature since once it is reached the note is redeemed
 regardless of its original projected maturity.

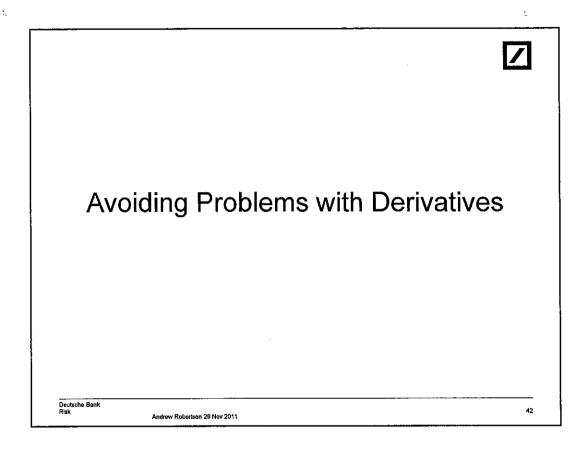


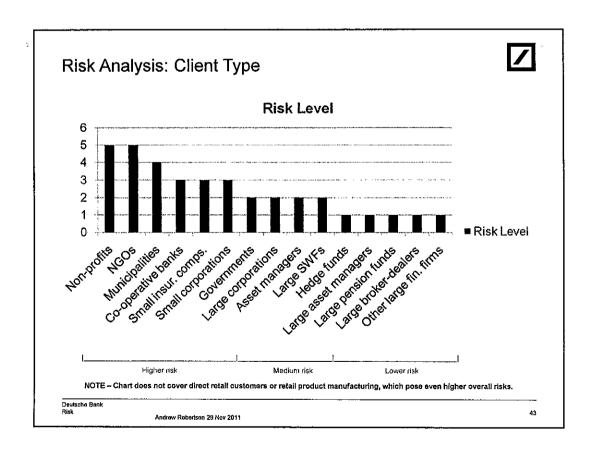
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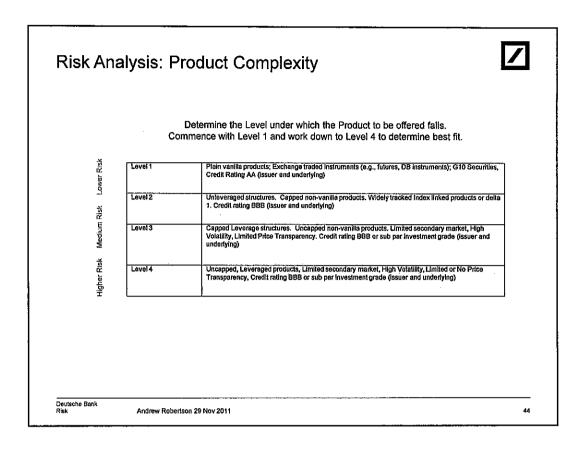
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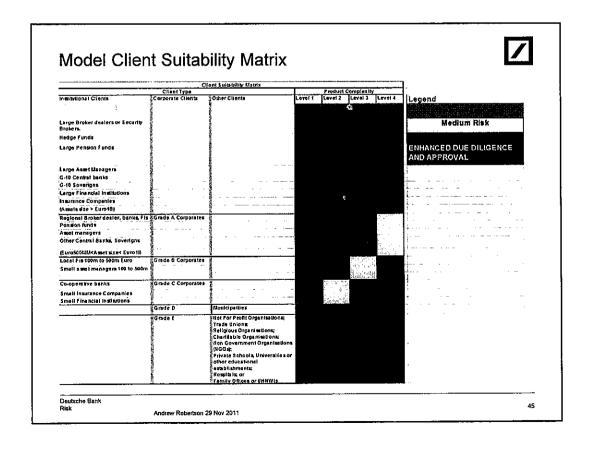
For Banks High margin The accrual rate will be contingent on maturity which could be early depending upon knock-out mechanism For Clients High yield in the initial period Generates returns in low interest rate environment, offers yield enhancement Guaranteed stated return with 100% principal protection (although some structures could be transacted with principal at risk)











Implementation



Pre-Trade

- · Confirmation of capacity
- · Reps and warranties letter
- · Marketing material/scenario analysis
 - · Scenario analysis

Post-Trade

- Valuations to clients
- · Monitoring of Mark-to-Market
- · Senior management reports

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Thank you!

Andrew Robertson
Director
Head of CIB Compliance
Deutsche Bank, Singapore
+65 98211822
andrew.robertson@db.com

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	Appendix	
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Swaps: An agreement between two parties to pay each other a series of cash flows based on an underlying Most common swaps are based on currency and interest rates Essence is an exchange of risk between two parties Derhoche Bank Risk Andrew Robertson 28 Nov 2011 Andrew Robertson 28 Nov 2011

Forwards and Futures



- A forward is an obligation to buy/sell a particular underlying at set price on a given date
 - · OTC-traded; customized; not margined
- A future is an agreement to buy/sell a specified asset of standardized quantity and quality at a specified future date at a price agreed today (the futures price).
 - · Exchange-traded; defined on standardized assets; margined

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Options



An option is a right but not an obligation to enter into a transaction

- Two main types:
 - Call options where the option grants the purchaser the ability to buy the underlying from the seller at the strike price
 - Put options where the option grants the seller the right to sell the underlying to the buyer at the strike price
- · Two main option styles:
 - · European options which can only be exercised on a particular date
 - · American option which can be exercised at any time in a given period
- · Other common types include Asian and Bermudan options

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Structured Products



- A structured product is generally a pre-packaged investment strategy based on derivatives, such as a single security, a basket of securities, options, indices, commodities, debt issuances and/or foreign currencies, and to a lesser extent, swaps.
- The variety of products just described is demonstrative of the fact that there is no single, uniform definition of a structured product.
- Structured products were created to meet specific needs that cannot be met from the standardized financial instruments available in the markets.
- Structured products can be used as an alternative to a direct investment, as part of
 the asset allocation process to reduce risk exposure of a portfolio, or to utilize the
 current market trend.

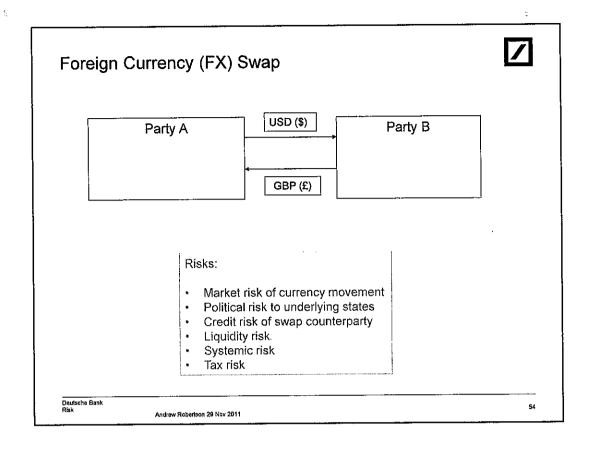
Source; Wikipedia

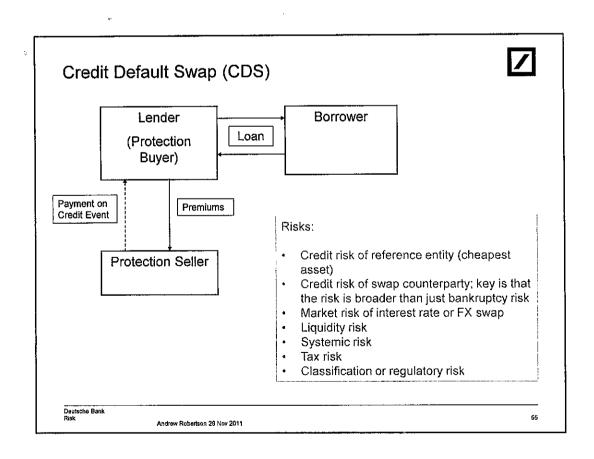
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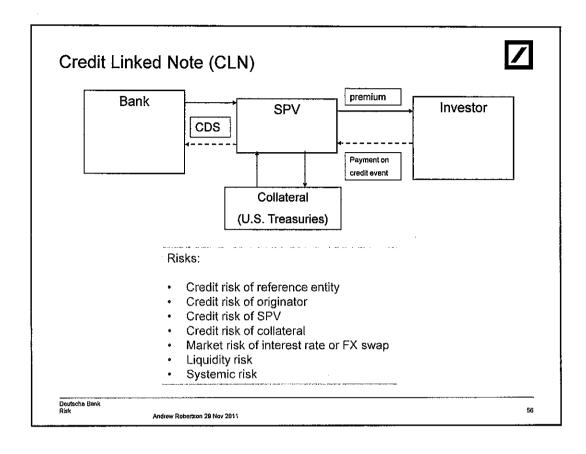
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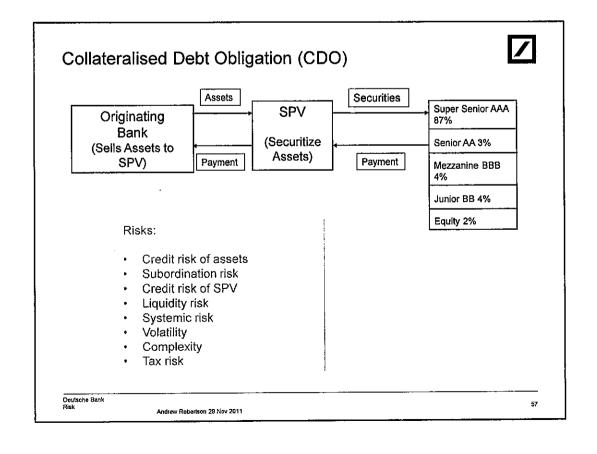
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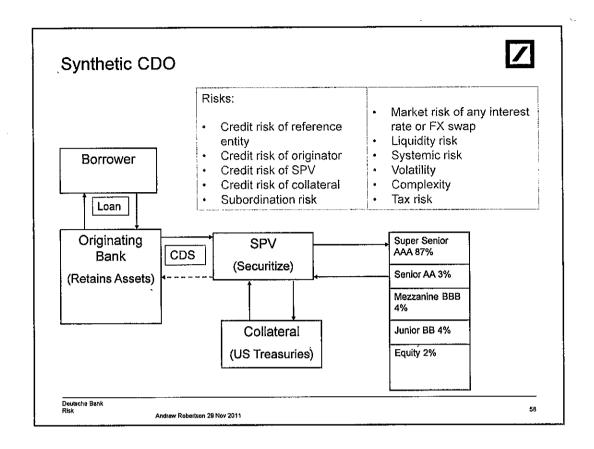
Party A Fixed GBP (£) Party B Risks: Market risk of interest rate fluctuations Credit risk of counterparty Liquidity risk Systemic risk Tax risk Deutsche Bank Risk Andrew Robertson 29 Nov 2011

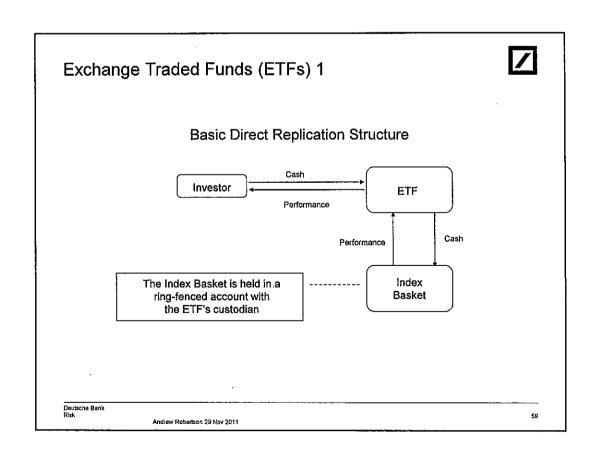


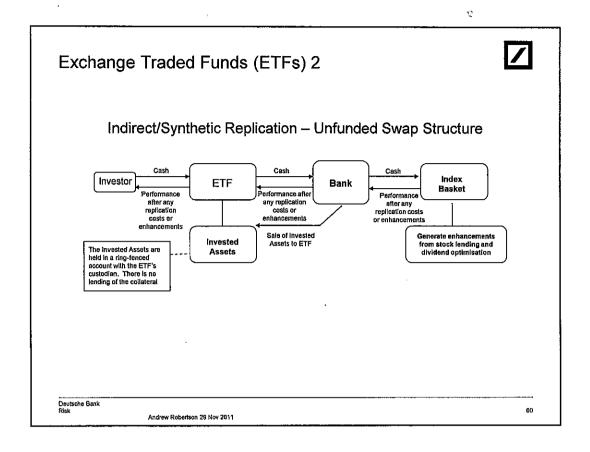












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