



ABI FIELD HEARING
EFFECTS OF SAFE HARBORS - LEHMAN DERIVATIVES

May 15, 2013

NORTH AMERICA EUROPE MIDDLE EAST LATIN AMERICA ASIA



EXECUTIVE SUMMARY

Failed SIFI + Derivatives = Toxic Recipe

- Derivatives was the greatest value destroyer in the Lehman Bankruptcy :
 - **Unprecedented:** Derivatives book was unprecedented in size, scale and complexity
 - **Freefall bankruptcy:** no prep, no derivatives department, no inventory, valuation and cash management systems shut-down and no derivative unwind blueprint
 - **Mismatching of Book:** splintering of the group into separate legal entities resulted in an unmatched book
 - **Safe harbors:** safe harbors allowed derivatives counterparties to terminate and get non-defaulting party close-out advantage and push “commercial reasonableness” to its extreme
- Derivatives value destruction:
 - Asset Depletion: \$25B estimated to monetize at \$18B
 - Claims Escalation: \$12B payables likely to grow to \$26B (\$70B claims filed)

Goals of safe harbors & bankruptcy code are challenging to reconcile

- Safe harbor goal: minimize systemic market through market certainty by allowing terminations
- Bankruptcy code goal: maximize debtor recoveries by avoiding preferential close-out by street
 - Reconciliation: maintain derivatives in a going concern

Conclusion: the safe harbors are a necessary evil



DERIVATIVES PORTFOLIO OVERVIEW

Portfolio Size

Notional Value

\$39 trillion

Counterparty Contracts

> 6,500

Trades¹

1.2 million

Portfolio Highlights

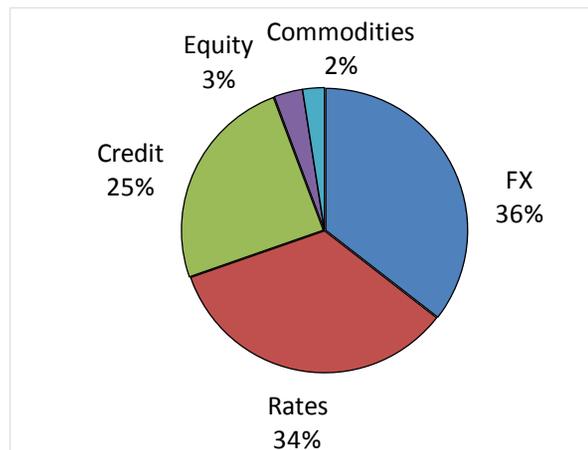
One of the largest derivatives book on the street at time of Bankruptcy – Top 5 US Dealer

Complex Portfolio:

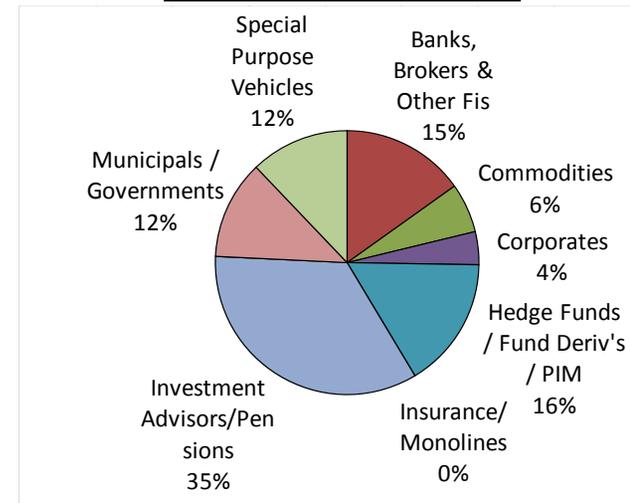
- Cross product
- Cross industry
- Cross region

Portfolio Segmentation

Product Segmentation (# of Trades)



Industry Segmentation (# of street facing contracts)





DERIVATIVES – WINDDOWN BLUEPRINT

Key Initial Challenges:

- 🏠 No derivatives department
- 🏠 No inventory
- 🏠 Loss of operational support
- 🏠 Loss of systems
- 🏠 Unmatched books
- 🏠 Uncharted legal territory

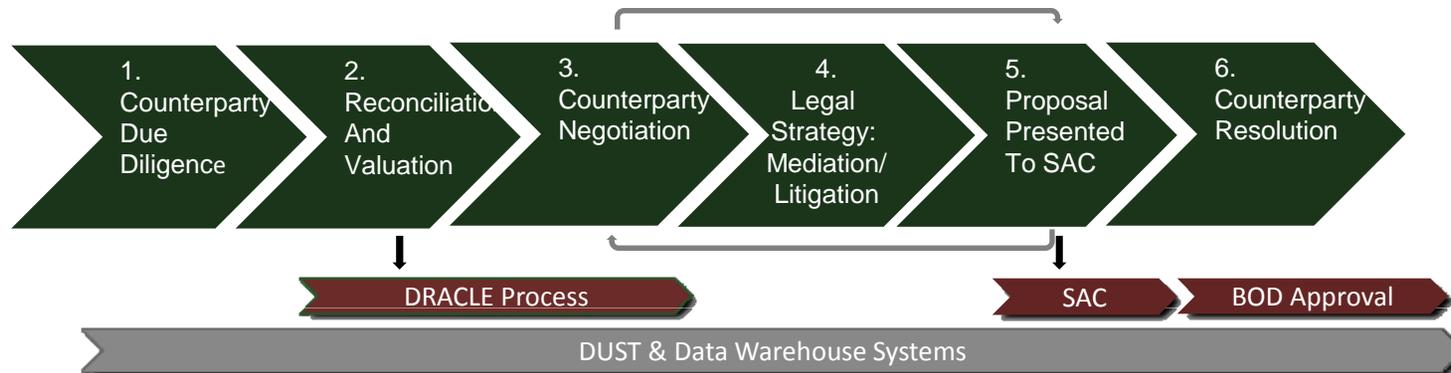
Unwind Blueprint:

- 🏠 Set-up workforce of ~300
- 🏠 Built infrastructure, systems and processes
- 🏠 Created valuation platform
- 🏠 Developed legal strategies

Result:

- **Successfully unwound 5,800 or 87% of book over 4 years**
- **Creating “standard” for commercially reasonable unwind of derivatives contracts**

DERIVATIVES UNWIND PROCESS





DERIVATIVES CHALLENGES

In initial phase Lehman was “reactive” and on “receiving” end of derivatives unwind

Operational Challenges:

- 🚩 Termination notices management
- 🚩 Close out (reconciliation/valuation) management with counterparties not providing information
- 🚩 Collection effort: counterparties that refused to pay

Value Destruction:

- 🚩 Inflated claims
- 🚩 Deflated receivables
- 🚩 Claims assertion where Lehman saw assets
- 🚩 Collateral “grab” to offset purported claims
- 🚩 Set offs to drive to a payable result

Counterparty Action

TERMINATED

80% Contracts
99% Trades

- 5,200 contracts
- \$11B receivables
- \$47B filed claims (estimated at \$24B)

NOT TERMINATED (LIVE)

20% Contracts
1% Trades

- ~1,450 contracts
- \$7B receivables
- \$4B filed claims (estimated at \$3B)

*Snapshot of contract status as of March 31, 2009



COUNTERPARTY TERMINATION ADVANTAGE

Valuation Date and Time

- Counterparty is calculation agent
- Valuation as soon as reasonably practicable after termination
- **Cherry picking opportunity:**
 - dates of valuation
 - Time in the day
 - Value across different dates asserting market illiquidity
- American Home Mortgage application provides some relief – “commercially reasonable determinants of value”

Market Quotation Method

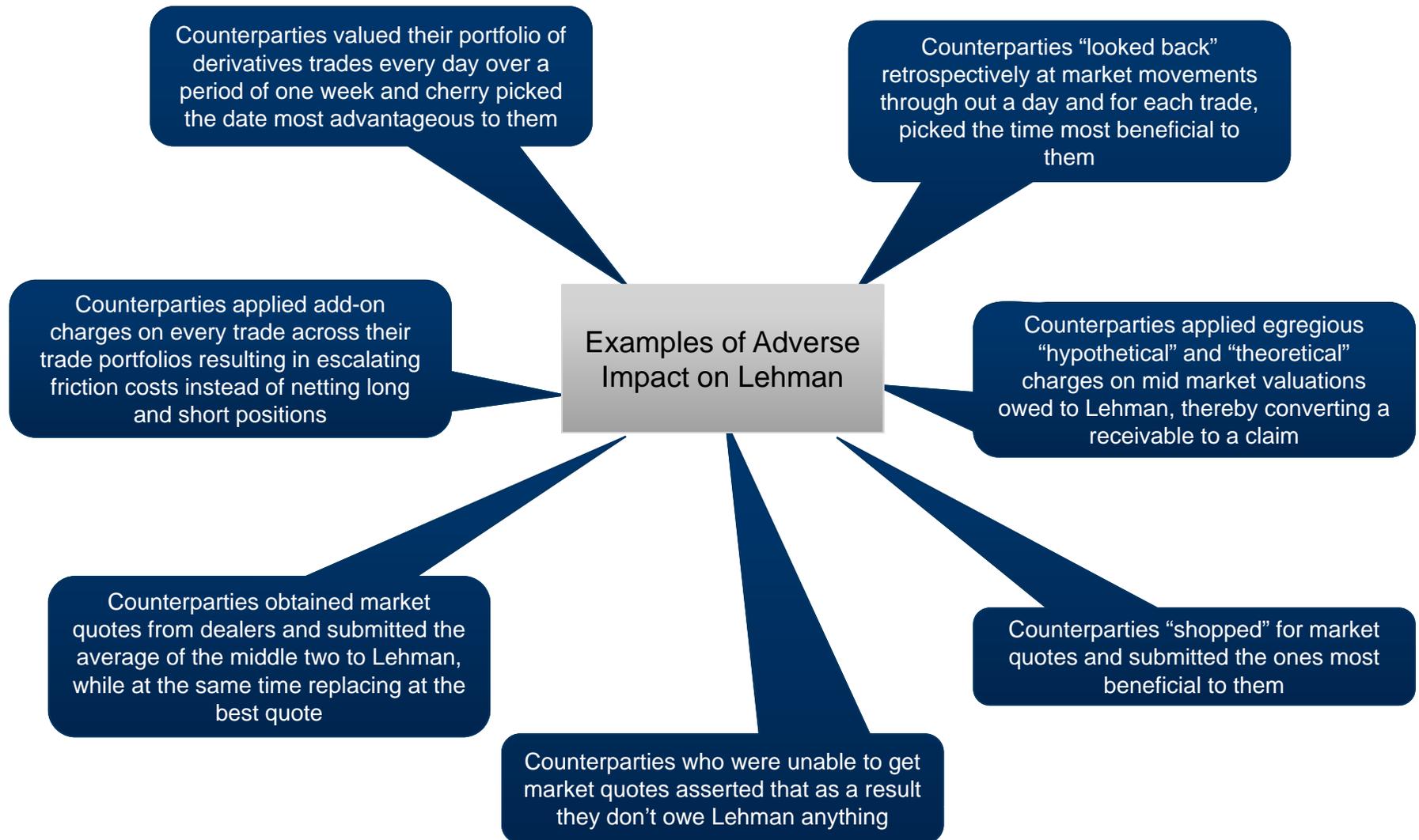
- 4 quotes needed; value at average of middle 2
- **Gaming opportunities:**
 - Flawed quote process
 - Relationship quotes
 - Non-firm quotes
 - Quotes sought without netting risk
 - No Bids means zero value to Lehman
 - Quotes on wrong day
 - Quotes for wrong trades
 - Revert to loss if quotes process not appropriate

Loss/Close Out Method

- Contractual or if market quotation fails
- “Losses and costs”:
- **Issues:**
 - Pricing time and dates
 - Model assumptions beneficial to counterparty
 - No or limited portfolio aggregation / netting
 - Hypothetical charges on trades
 - Costs related to macro hedges



TERMINATED COUNTERPARTIES





LIVE COUNTERPARTIES

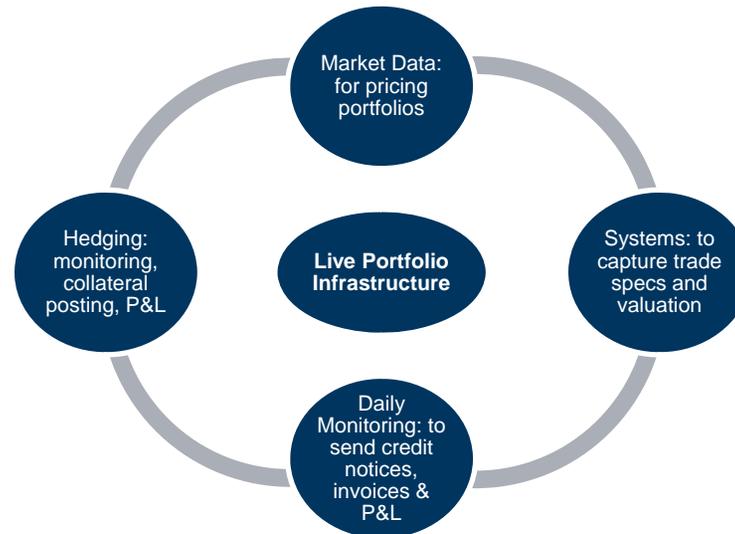
REASON FOR “NON TERMINATION”

- 🏢 Inability or unwillingness to pay Lehman
- 🏢 Technical requirement to hedge per financing or other covenants
- 🏢 Attempt to suspend contractual payments (using section 2aiii of the ISDA contract)

SOURCE OF VALUE DESTRUCTION

- 🏢 Infrastructure set up costs: valuation, cash flow management, monitoring, notification/reporting
- 🏢 Risk management: post-petition ISDAs set up with collateral posting to hedge positions
- 🏢 Wind-down costs: assignment/novation of contracts at cost of market participants' P&L charges

LIVE PORTFOLIO INFRASTRUCTURE





SET-OFF ASSERTIONS

SOURCE OF VALUE DESTRUCTION

- Set off of collateral posted
- Mutuality of contracts
- Cross Lehman affiliate set-off
- Cross Counterparty entity set-off

EXAMPLES OF OPPORTUNISTIC SET-OFF ASSERTIONS

Shifting Claims across entities

Shifting Collateral across entities

Set-off against Lehman bonds, notes, equity, other property

Contingent withholding of payments



CONCLUSION

- ④ Safe harbors are the source of great value destruction when derivatives are involved
- ④ This value destruction is exacerbated when a SIFI is on the “receiving side”
- ④ These damages should however be somewhat tempered in the future as a result of:
 - Lehman experience
 - Wind-down blueprint
 - Market preparedness: market participants (or rather their lawyers!) to close out their trades
 - Increased Legal Certainty: more clarity around scope of the safe harbors and acceptable close out rules (netting, add-ons, commercial reasonableness)
 - Living wills: broker dealers have streamlined their legal entities and derivatives contracts
 - Limitation of prop trading & increased ETD trading
- ④ Value destruction can however only be avoided while also avoiding systemic risk by keeping book live which means transferring book to a going concern, i.e. OLA
- ④ Conclusion: the safe harbors are a necessary evil