

Goldman Sachs and the Big Short

TIME TO GO LONG?



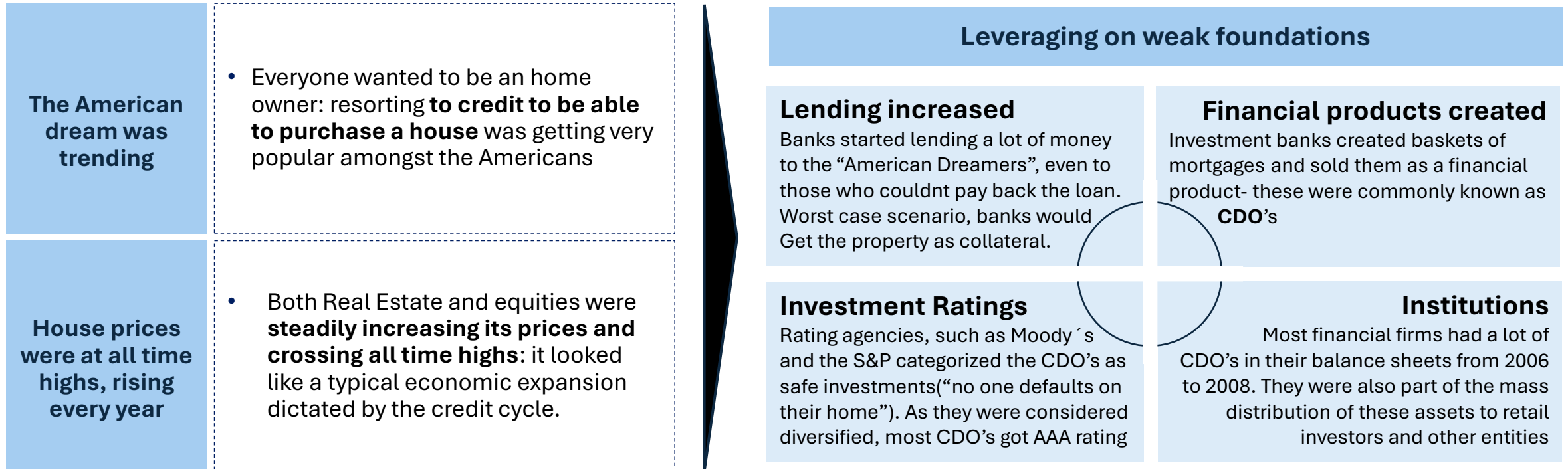
Content

- 1 US and worldwide economy before 2008
- 2 Goldman Sachs positioning
- 3 Risk Management during 2006-2007 period
- 4 Was there a conflict of interests on the side of Goldman Sachs? Was there an ethical dilemma?
- 5 Time to go Long?



1 | The US economy framework before 2008

The US economy, prior to the 2008 crisis, was facing one of its best moments ever, with both equities and real estate pricing crossing all time highs.

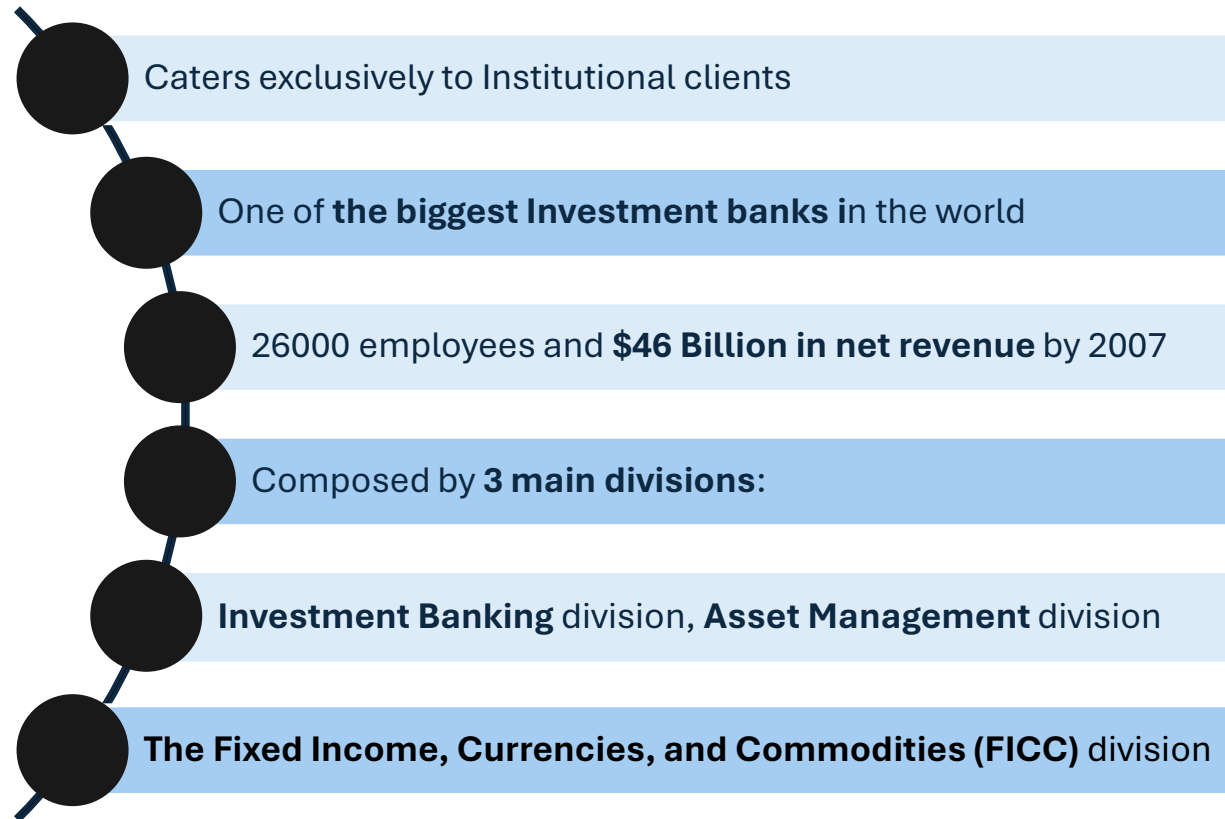


The entire economy was leveraged on one fragile foundation: **the housing market is indestructible, and housing prices will keep rising steadily: independently of mortgage delinquency rates, mortgage portfolios(CDO's) will hold their value.**

Goldman Sachs' History and Structure

When did Goldmans Sachs started? How is it structured?

Goldman Sachs was founded in 1869



Mortgage department:

- Structured Product Syndicate and Asset-Backed Securities (ABS) Finance Desk
- Collateralized Debt Obligation (CDOs) and Derivatives Desk
- The Advisory Group Desk
- Commercial Real Estate Loan Trading Desk

The Mortgage Market and Goldman Sachs' role

Market condition

- Market value of **\$1.2 trillion** dollars by 2007
- **A 600% increase since 2001** with **82% of the debt rated AAA** by credit rating agencies

New Financial Instruments

- Introduction of **Collateralized debt Obligations (CDOs)**
- Introduction of the **ABX Index**

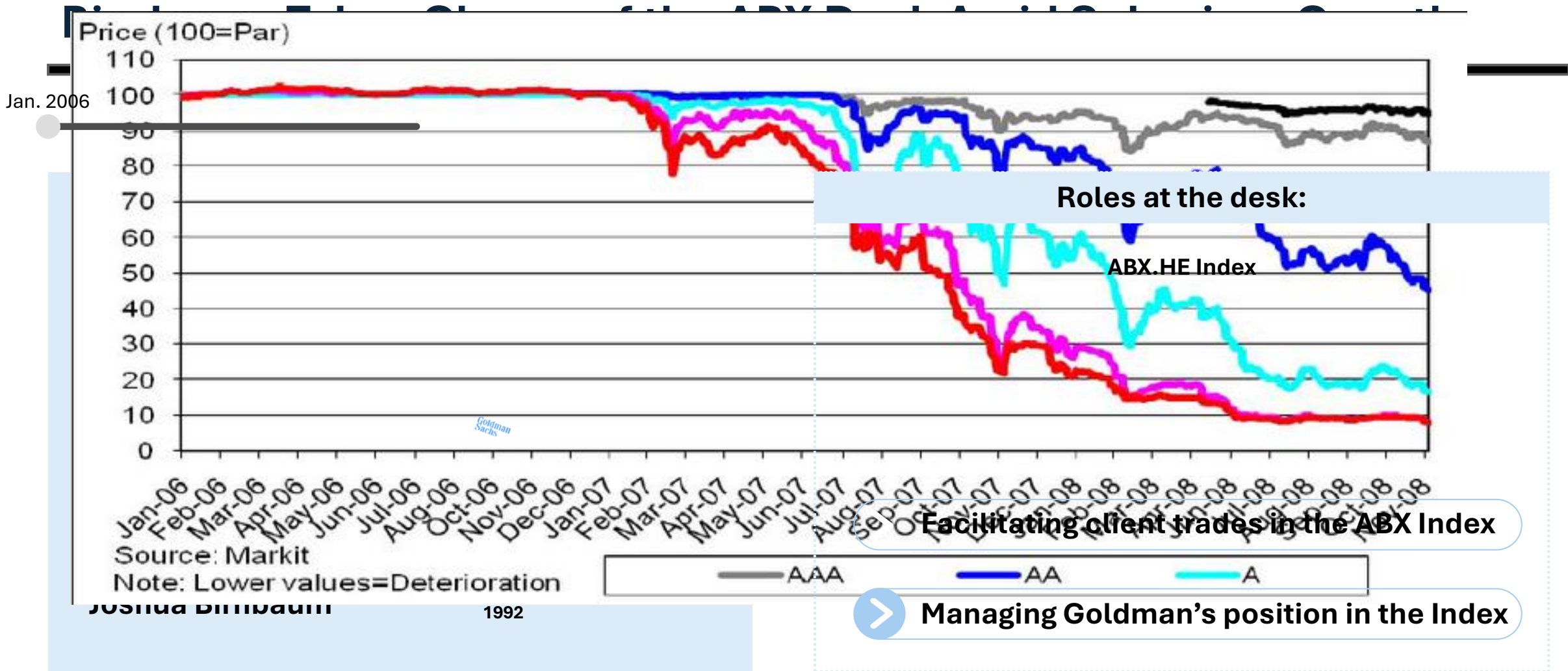
Market Maker

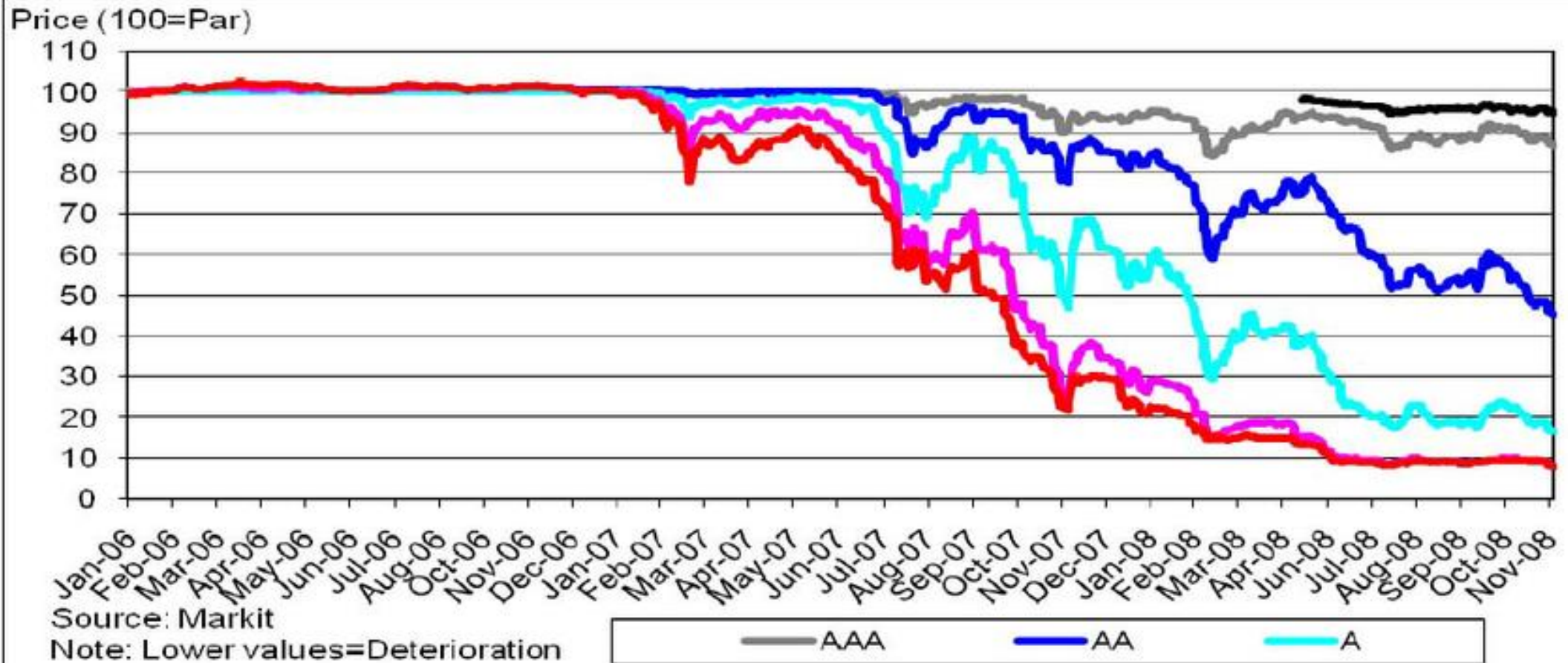
- Underwrote **93 residential mortgage-backed securities** worth **\$72 Billion**
- **Facilitated \$28 billion** worth of CDOs

Goldman Sachs' Risk Management Put to the Test: Regarded as Wall Street's Best



How did Goldman Sachs navigate 2006 early warning signs, adapt its strategy, and positioned itself for survival?





The 'Lunatics' Betting Against the Market: A Defining Moment

June 2006

**PAULSON
& CO.
INC.**

Paulson was aggressively shorting ABX since January, essentially betting against the U.S. Housing Market



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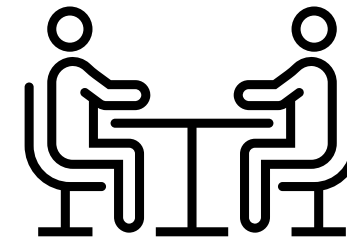
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Paulson Birnbaum



Turning Point

"What if Paulson is right?"

"What if the U.S. housing market is about to collapse?"

Risk Management in Action: The “Structured Exit”

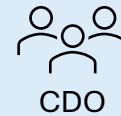
Sep. 2006

HUMILITY & CURIOSITY

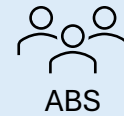
- 1) Flow of information and risk management embedded culture:** Birnbaum **shared** his concerns and findings with the rest of the departments
- 2) Market analysis:** Goldman Sachs analyzed subprime market fundamentals; identified **increasing EPDs; irresponsible** mortgage originators
- 3) Risk assessment:** Subprime market was going to collapse, and Goldman was **heavily long**, holding billions of dollars in subprime-mortgage related securities

“STRUCTURED EXIT”

Goal: Reduce Exposure Without Sounding the Alarms



CDO



ABS



Hudson Mezzanine 2006-1

New Synthetic CDO

\$3 billion

short in one month

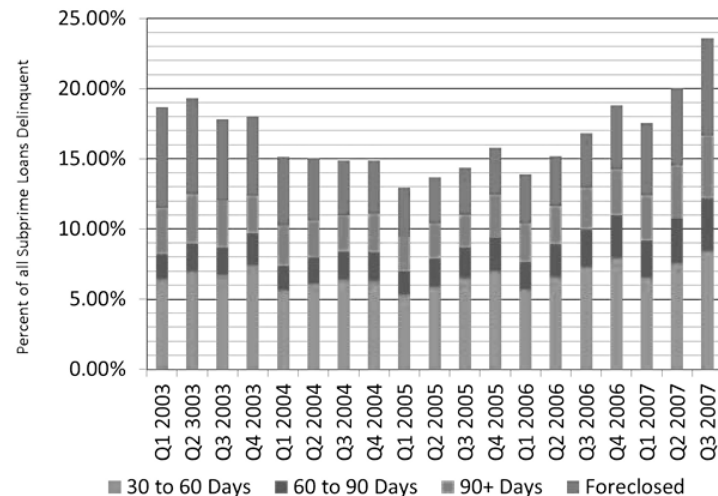
100% short

on the CDO

December 2006: Getting Closer to Home

Dec. 2006

Mortgage delinquencies and foreclosures peak...



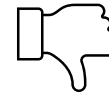
Source: Mortgage Bankers Association

Mortgage origination companies were struggling with early payment defaults, some were already in **financial distress**

... Now it's the time to act...



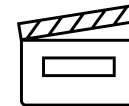
CFO sees on P&L that for 10 days the Mortgage Department **had been losing money**



Still \$6 billion net long position in subprime mortgage securities



Firm-Wide Risk Committee and other general meetings



In five days, Goldman Sachs reached the conclusion that would end up saving the company: **"It's time to get closer to home"**

GS's Actions revealed a conflict of interests

Goldman Sachs primary interest for the well-being of its clients was in conflict with their interest to dispatch their CDOs and enter a net short position on this market.

Dual Strategy

- Goldman Sachs acted on **information asymmetry**: they knew the market was going to fail, yet they still **sold CDO's**
- Overall, they were **selling subprime mortgages** securities while simultaneously **betting against them**

Risk Transferring

- Hudson Mezzanine 2006-1 CDO designed as “**structured exit**”
- Goldman Prioritized its **own financial gain** over the interest of its clients

Marketing Strategies

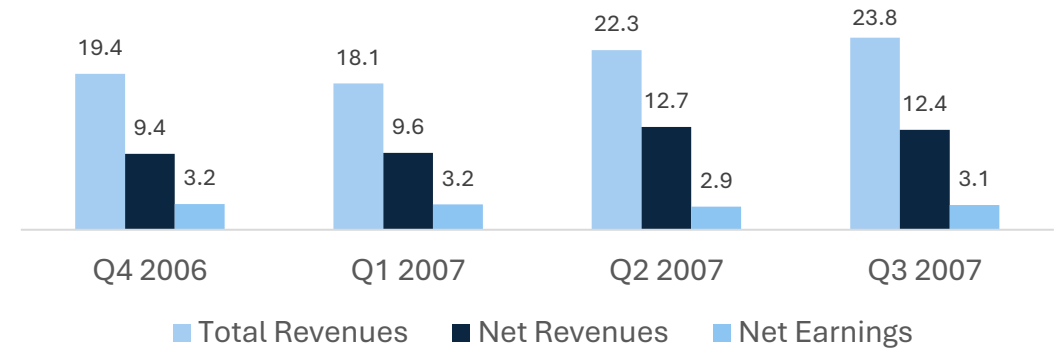
- Promotional booklets **outlining the features of the CDOs**
- **Misleading claims**: “Sourced from the street” and “aligned incentives with the Hudson program”

Goldmans Financial Situation as of Q3 2007

Overview

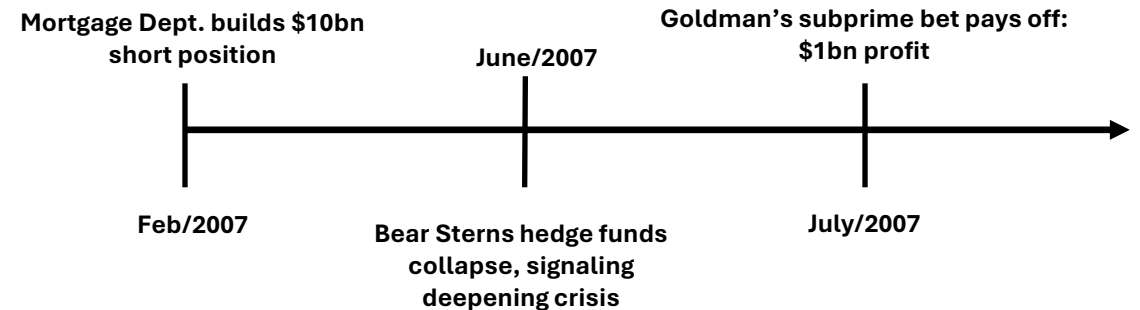
- Goldman Sachs **profited \$1 billion** in July 2007 from subprime short positions, mitigating mortgage-related losses.
- **Trading & Principal Investments drove revenue**, particularly the Fixed Income, Currencies, and Commodities (FICC) division, including mortgage-related trading.
- **Strong Risk management** and dynamic exposure adjustments enabled Goldman to capitalize on the subprime downturn, outperforming competitors facing heavy losses.

Key Financial Metrics in \$bn



➔ **Q3 2007 was Goldman's strongest quarter in recent history**

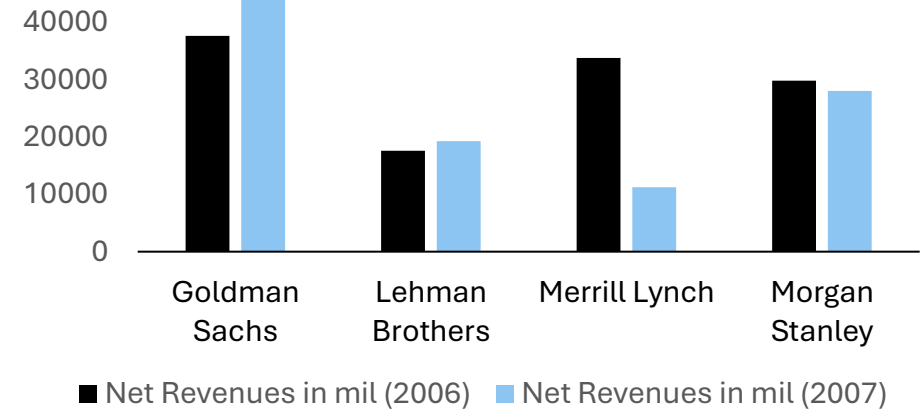
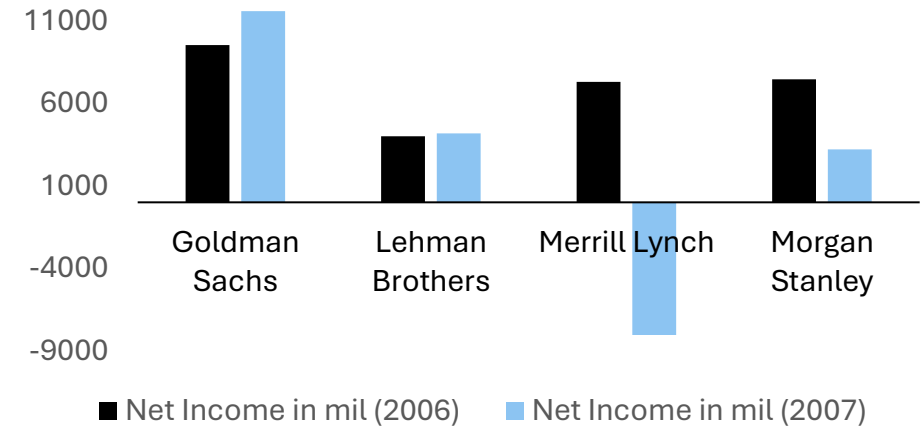
Timeline major events 2007



Goldmans Financial Situation as of Q3 2007

Comparison with competitors

- **Sustained profitability** while competitors posted losses.
- Strategic **short positions** on subprime mortgage-backed securities shielded the firm from market downturns.
- **Goldman** dynamically adjusted exposure, **mitigating losses** and capitalizing on market volatility.
- While **competitors** like Lehman, Merrill Lynch, and Bear Stearns **faced heavy losses**, Goldman's limited exposure led to strong gains



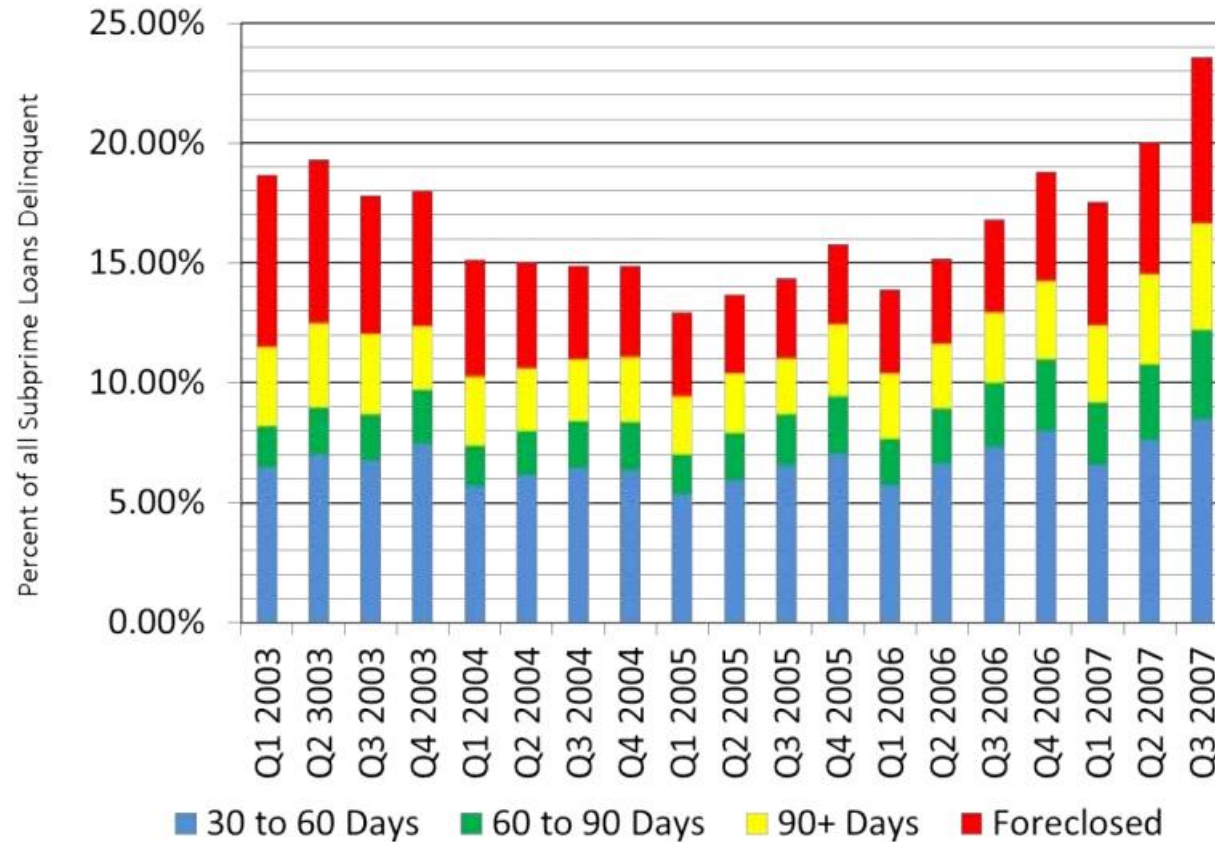
5 |Time to go Long?

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funds that hel
- Potential for u
trenches
- Potential for h

Exhibit 7: U.S. Subprime Loans: Mortgage Delinquencies and Foreclosures

By Past Due Period, Not Seasonally Adjusted (Q1, 2003 to Q3, 2007)



Source: Mortgage Bankers Association

Mortgage department?

Short position, and It
Its

in the market

gs



Thank you !

Group 5

João Rosa – 51876

Philipp Effinger – 63610

Sara Lopes – 51829

Rafael Monteiro – 52014

Tomaz Carvalho – 47068