

**Presenting
debate on
contemporary
and emerging
portfolio
construction
issues**



portfolio
construction

CONFERENCE

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When top down models went out of date - Fixed Income as an Alpha Source

Peter Walsh

Director, Retail Business

PortfolioConstruction Conference
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Outline

- Traditional view of Global Fixed Income
- Evolution of Fixed Income Markets
- Evolution of Investment Process
- Recipe for Fixed Income Alpha



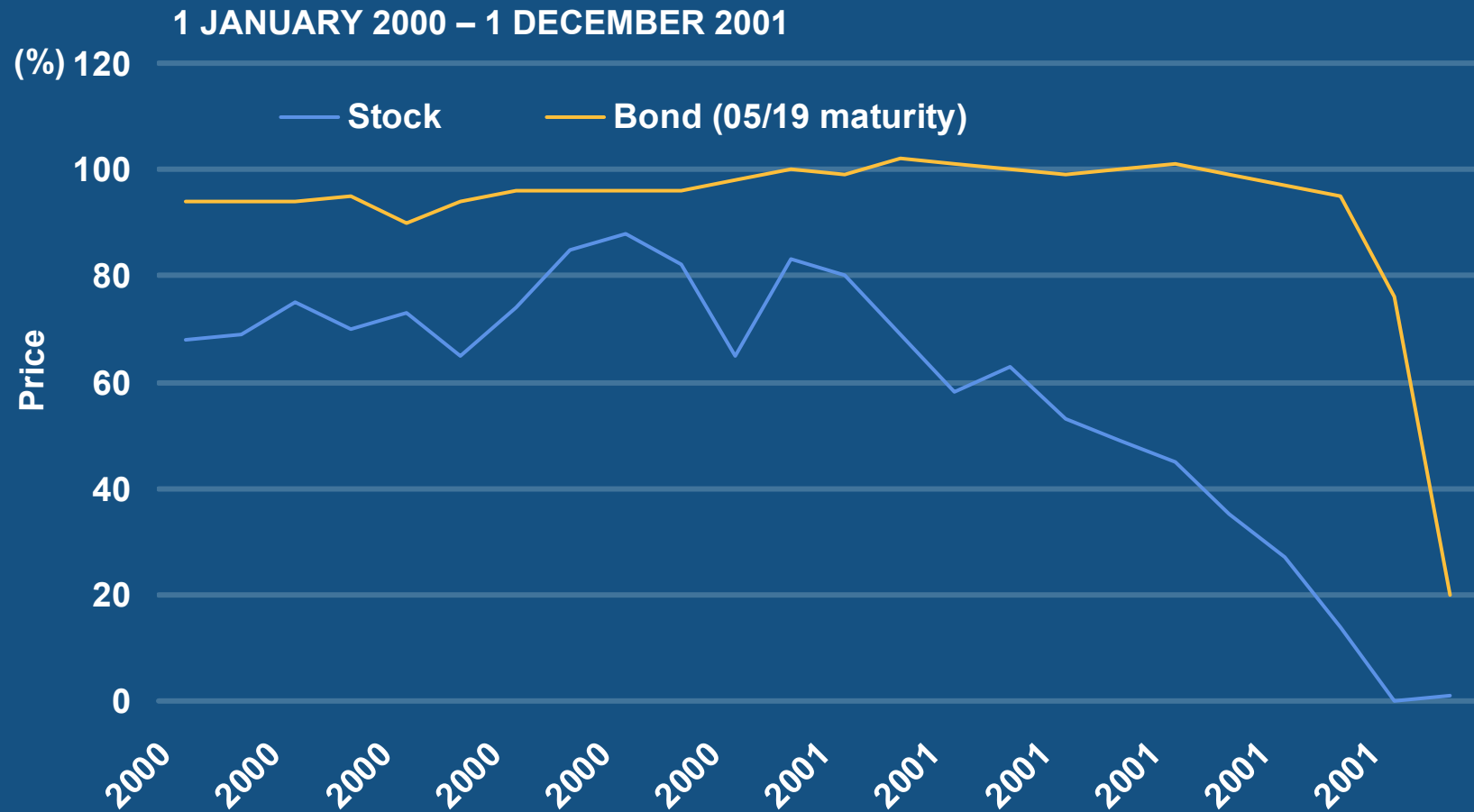
Traditional view of Fixed Income

- Safe, necessary, boring
- Efficient – less alpha than equities
- Volatility is too low to generate alpha



Traditional view of Fixed Income

Enron stock price vs. Enron bond price

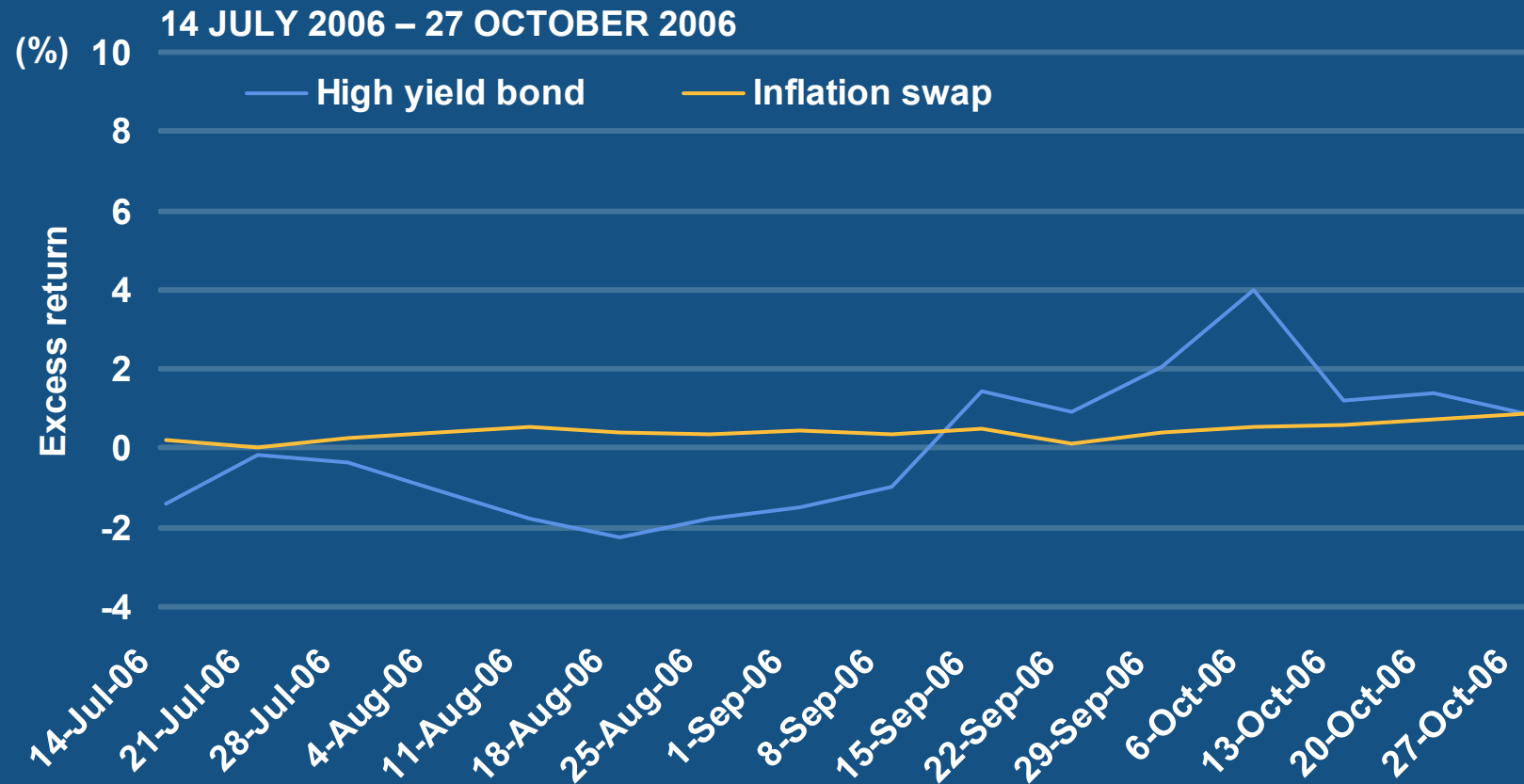


Source: Bloomberg.



Traditional View of Fixed Income Inflation Swap vs High Yield Bond

- rolling 12 month excess returns



Source: Bloomberg, Merrill Lynch.

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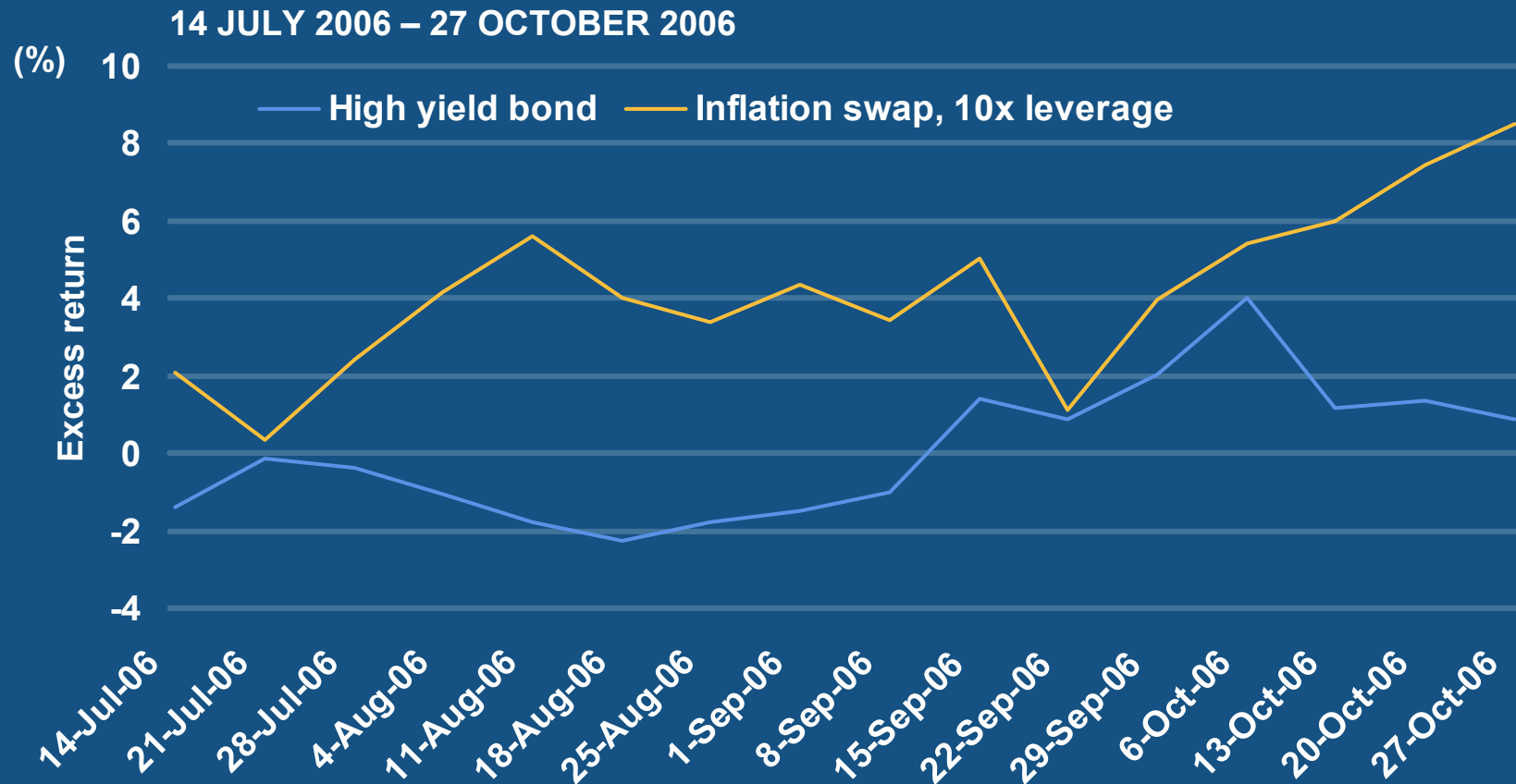


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Traditional View of Fixed Income

Inflation Swap 10x vs High Yield Bond

- rolling 12 month excess returns



Source: Bloomberg, Merrill Lynch.

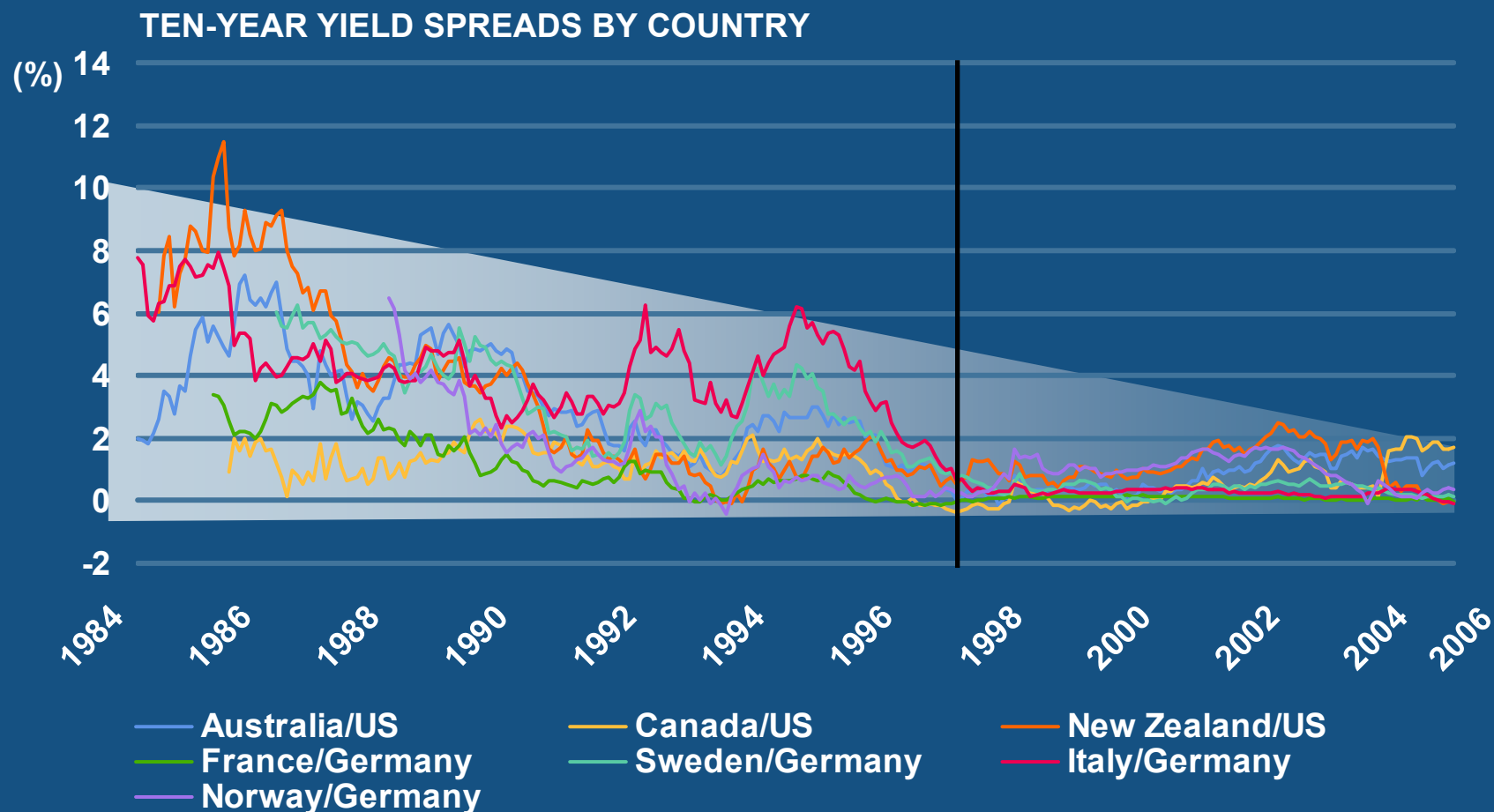
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Evolution of Fixed Income Markets

Diminished opportunity in country



Source: Datastream.



Evolution of Fixed Income Markets



Traditional

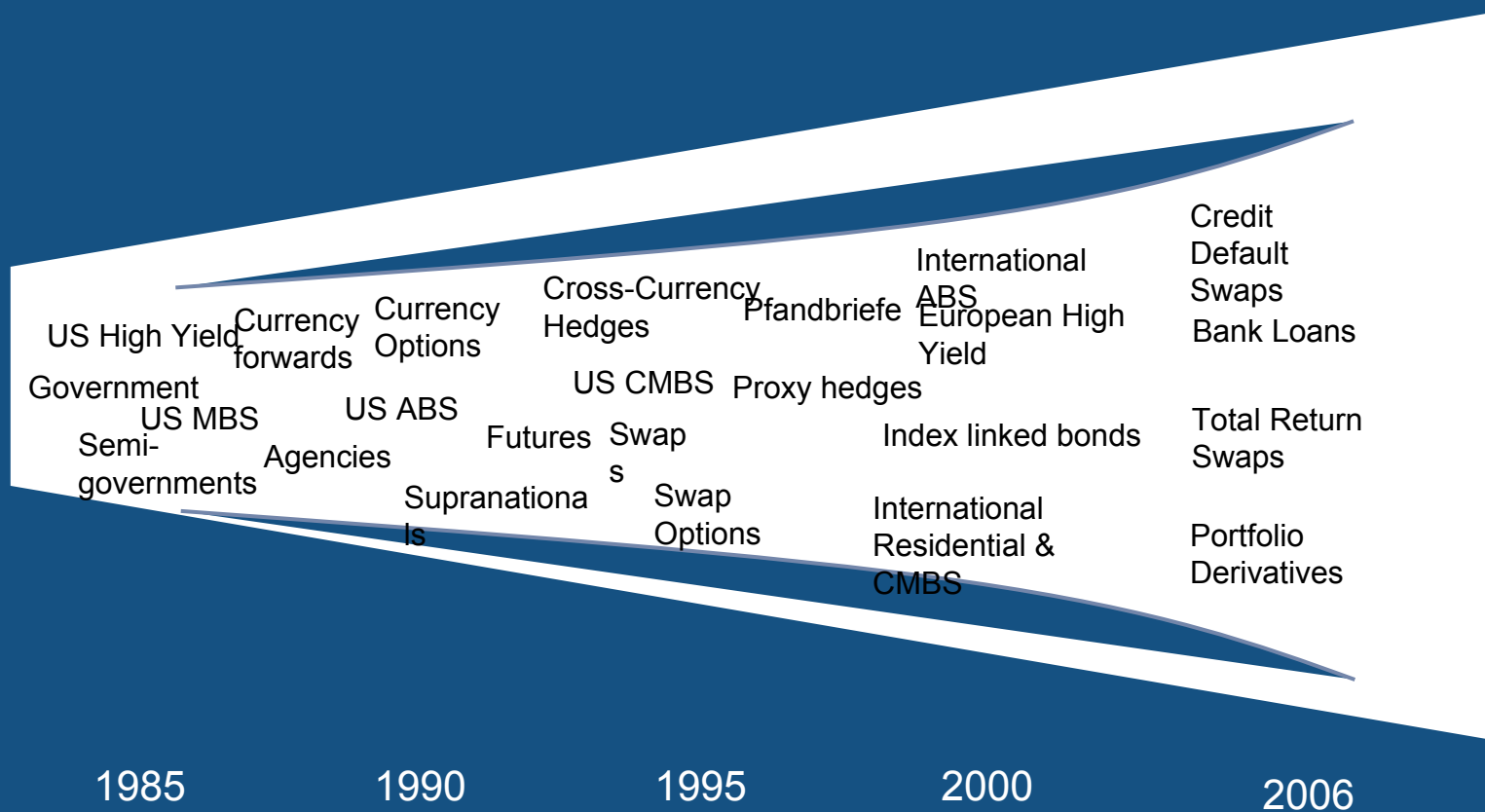


New



Evolution of Fixed Income Markets

Increased Sector/Security Opportunity



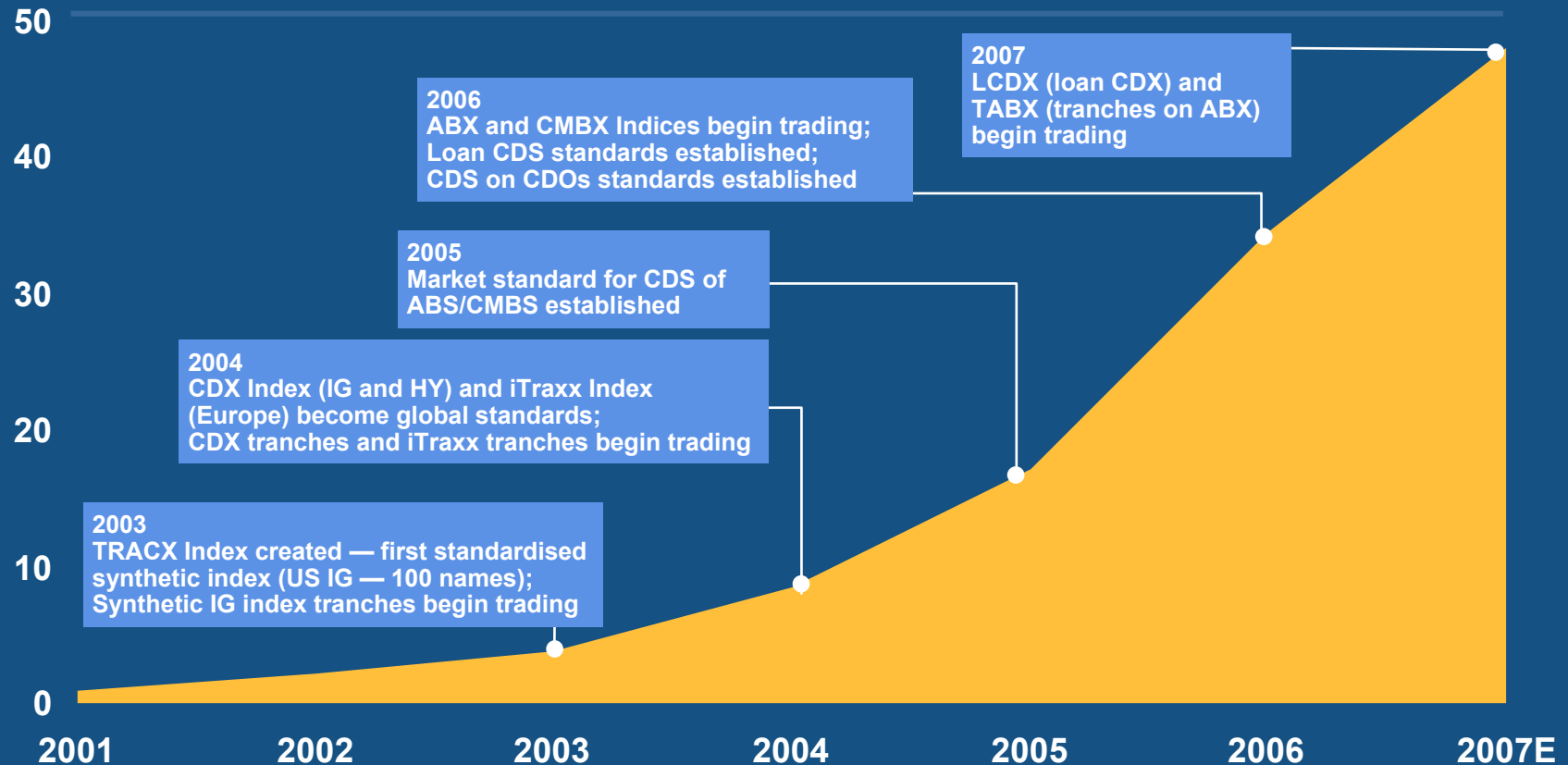
Source: Putnam Investments.
Sector opportunities are shown for illustrative purposes only.



Evolution of Fixed Income Markets

Rapid growth and innovation

STRUCTURED CREDIT TIMELINE TOTAL CREDIT DEFAULT SWAP OUTSTANDING (\$US BILLIONS)

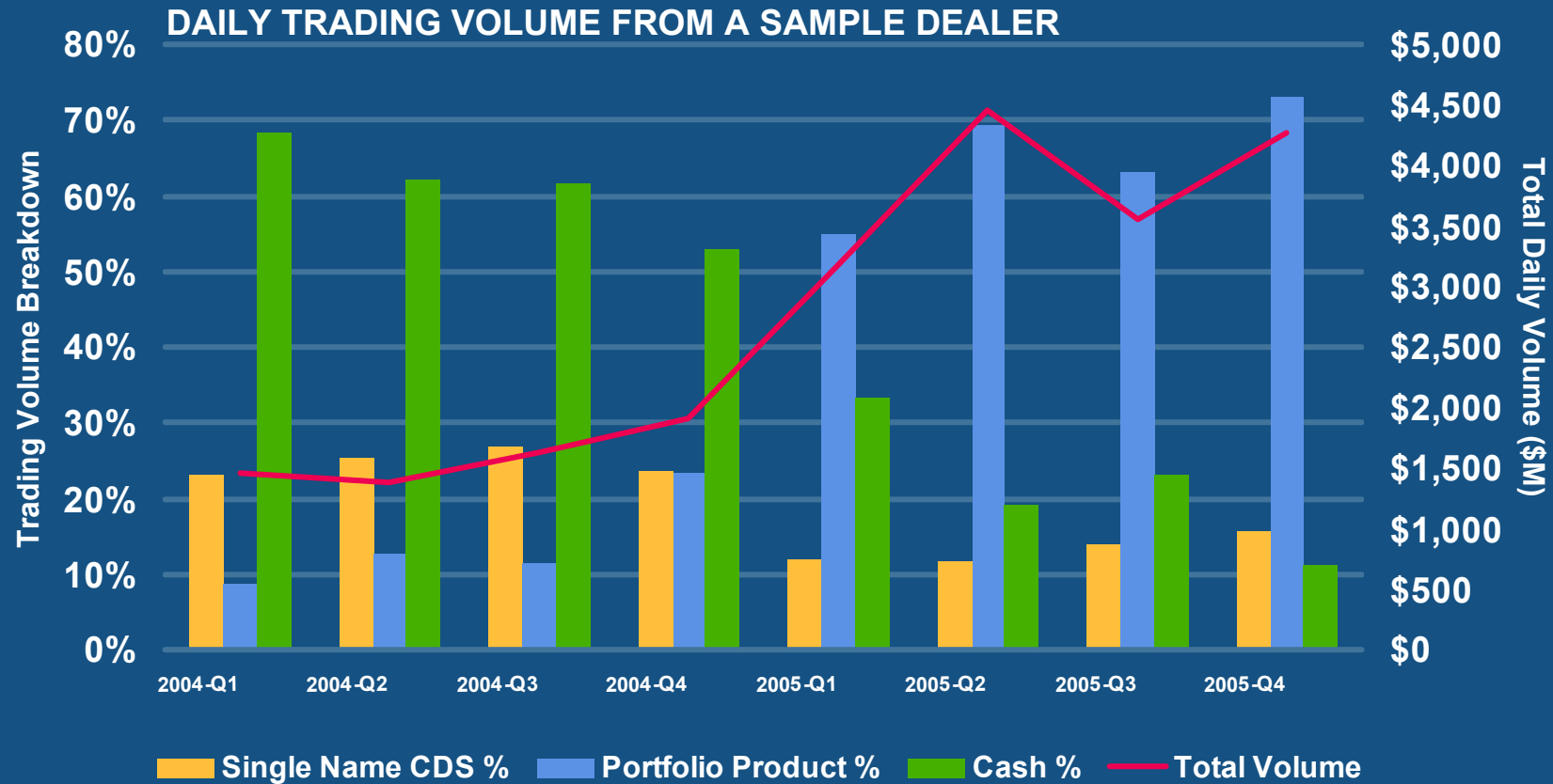


Sources: ISDA and Putnam Investments as of 15/6/2007.



Evolution of Fixed Income Markets

Significant and increasing liquidity

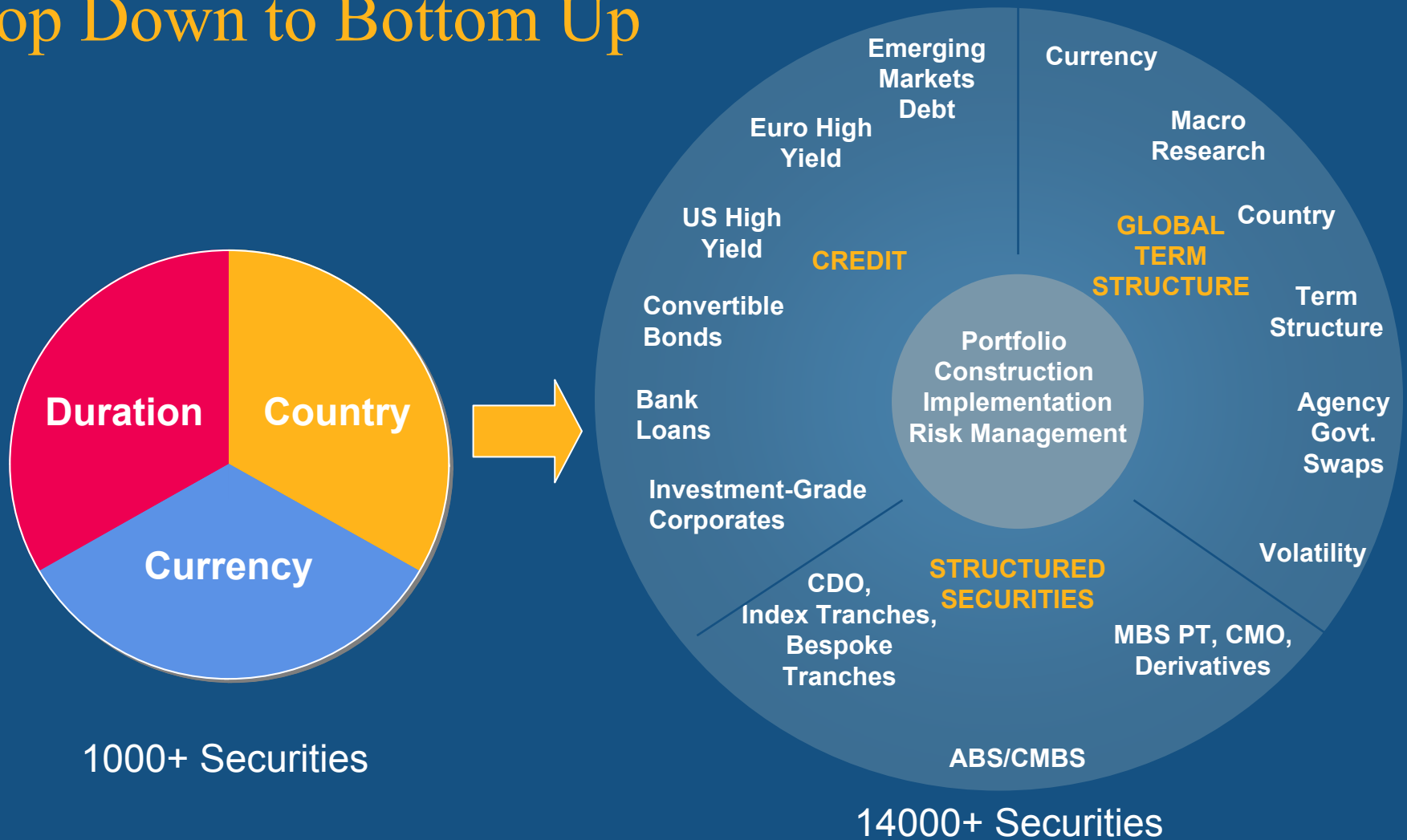


Source: Lehman Brothers U.S. Flow Credit Trading Desk (Average Daily Volumes).



Evolution of Investment Process

Top Down to Bottom Up



Evolution of Investment Process

Inefficiencies to exploit

- Currency – not all investors are return oriented and hence deviations from fair value
- Term structure – real v nominal rates, mispricing of volatility
- Credit – different models, different views on size, volatility and correlation of default rates
- Liquidity – sensitivity to ratings or short time horizons creates forced sellers



Old Recipe for Fixed Income Alpha

- Historically small returns
- If large:
 - Usually taking significant market risk (Beta)
 - Long duration
 - Overweight credit
 - Volatile
 - Unrepeatable



New Recipe for Fixed Income Alpha

- Security selection
- Diversification
- Risk Management
- Derivative expertise
- Flexible guidelines



New Recipe for Fixed Income Alpha

- Asset Backed Securities
- Credit Derivatives



New Recipe for Fixed Income Alpha

➤ Derivatives

- Enable isolation of opportunities
- Can reduce risk
- Can add security selection opportunities
- Are the future

➤ Shorting

- Allows a larger opportunity set
- Asymmetry in your favour
- Little fundamental difference from being underweight



New Recipe for Fixed Income Alpha

➤ Leverage

- Allows less volatile, but great risk-adjusted returns to be competitive with higher return more volatile sectors
- Increasing size should equally increase return and risk



Summary

- Security selection is the best source of alpha in fixed income
- Diversification is necessary to avoid typical downside risk of bonds
- Be cautious of excess returns that were driven by large market moves – “big bets”
- Derivatives and shorting can add to alpha while decreasing volatility
- Investment managers need risk systems capable of monitoring the diverse exposures, volatilities and correlations



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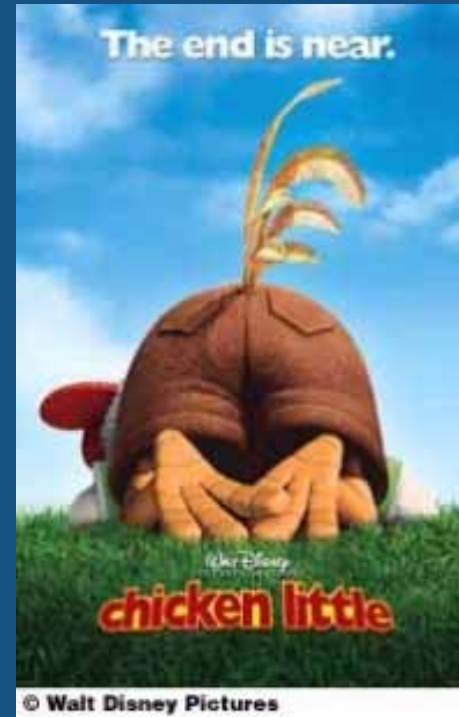
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Appendix: What happened to credit this year?



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- Not all AAA's are the same
- Leverage can amplify returns and can have more downside than upside
- The use of quantitative models is an art and a science

