Asset-Backed Securities

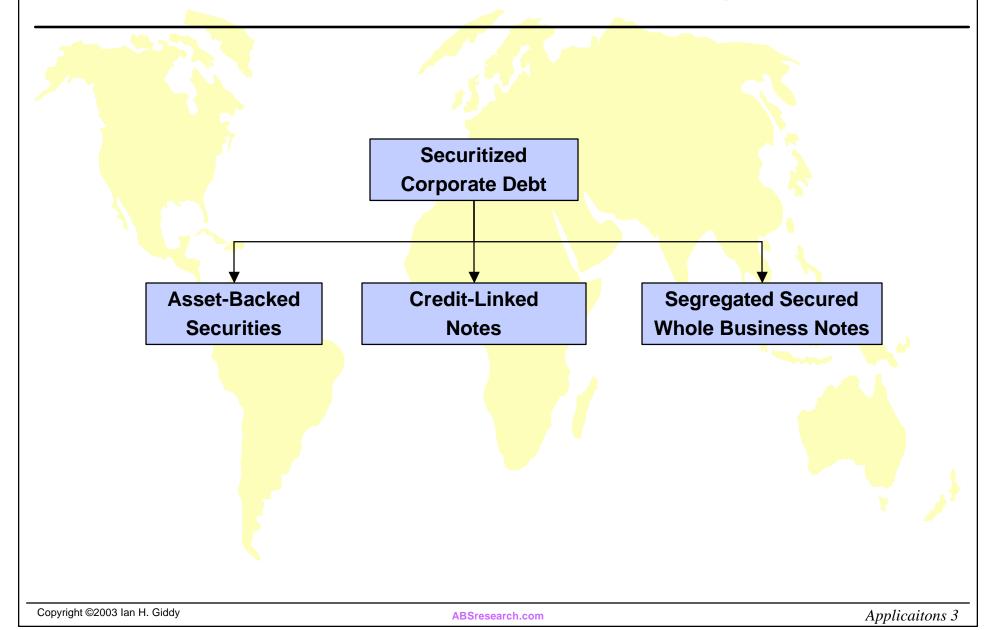
Asset-Backed Securities: Applications

Prof. Ian Giddy
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New York University

Applications and Variations

- Classic true-sale ABS
- Asset-backed commercial paper conduits
- Collateralized loan obligations and synthetic CLOs
- Whole business securitization

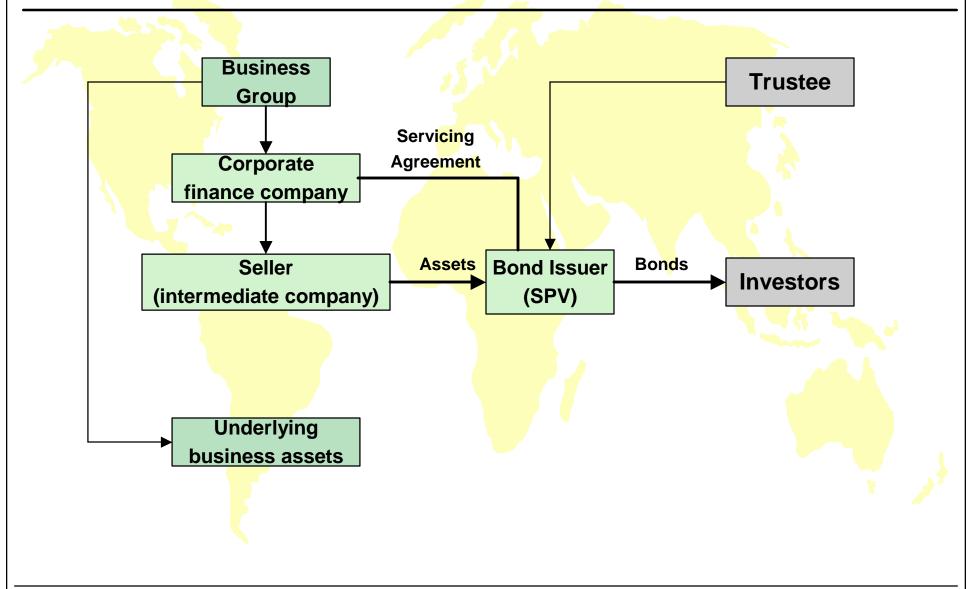
Corporate Cash Flow Financing



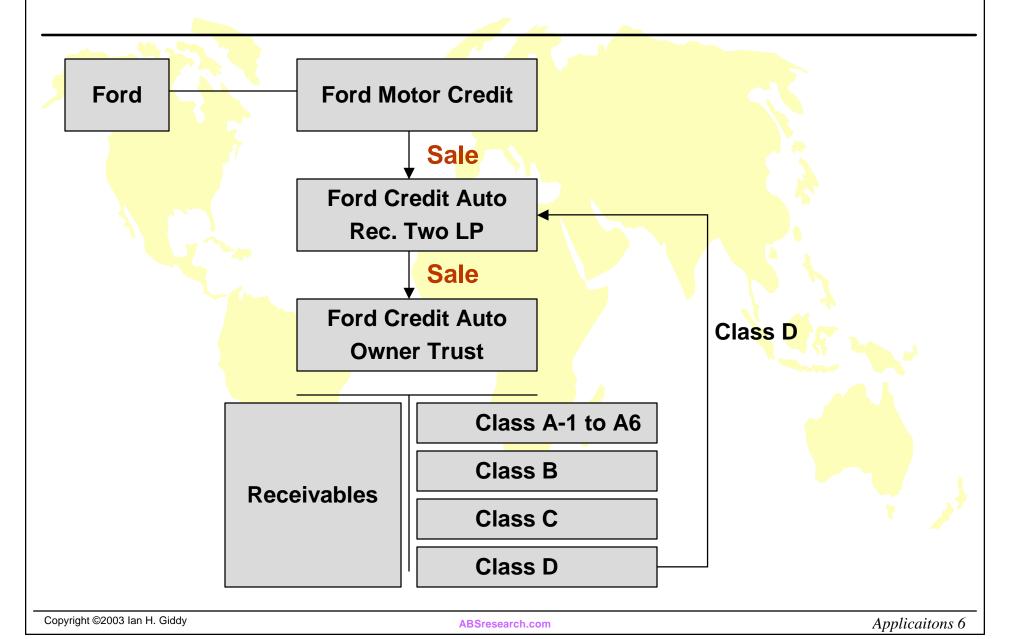
Vintage Asset Securitization

- The transfer must be a true sale, or its legal equivalent. If originator is only pledging the assets to secure a debt, this would be regarded as collaterized financing in which the originator would stay directly indebted to the investor.
- The assets must be owned by a specialpurpose corporation, whose ownership of the sold assets is likely to survive bankruptcy of the seller.
- The special-purpose vehicle that owns the assets must be independent

Vintage ABS Structure



Ford Structure



Asset-Backed Securities

Securitization of Trade Receivables

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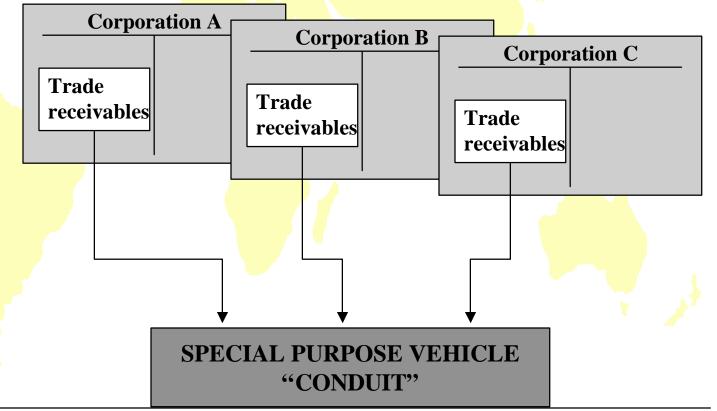
Trade Receivable Backed CP

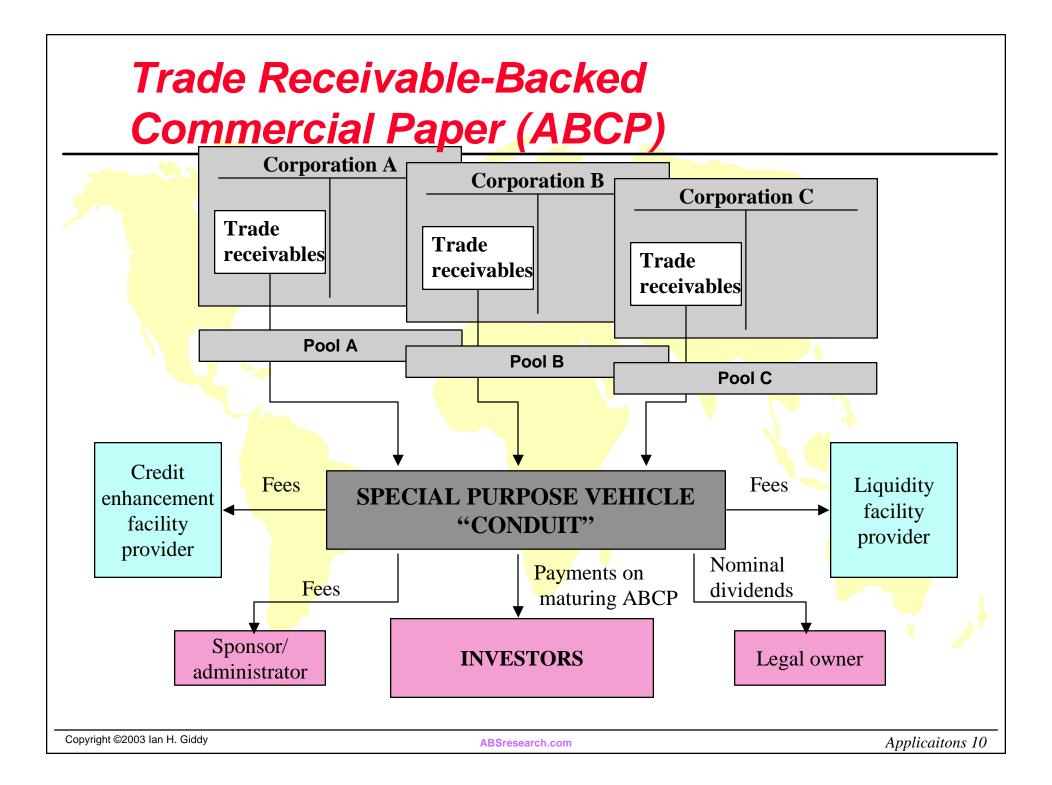
- Over \$500 billion outstanding in US alone
- Key feature is pooling of different companies' trade receivables, allowing smaller companies to take advantage of ABS market
- Need two-tier legal structure SPV at level of each company's receivables pool, and at multi-company program (the "conduit")

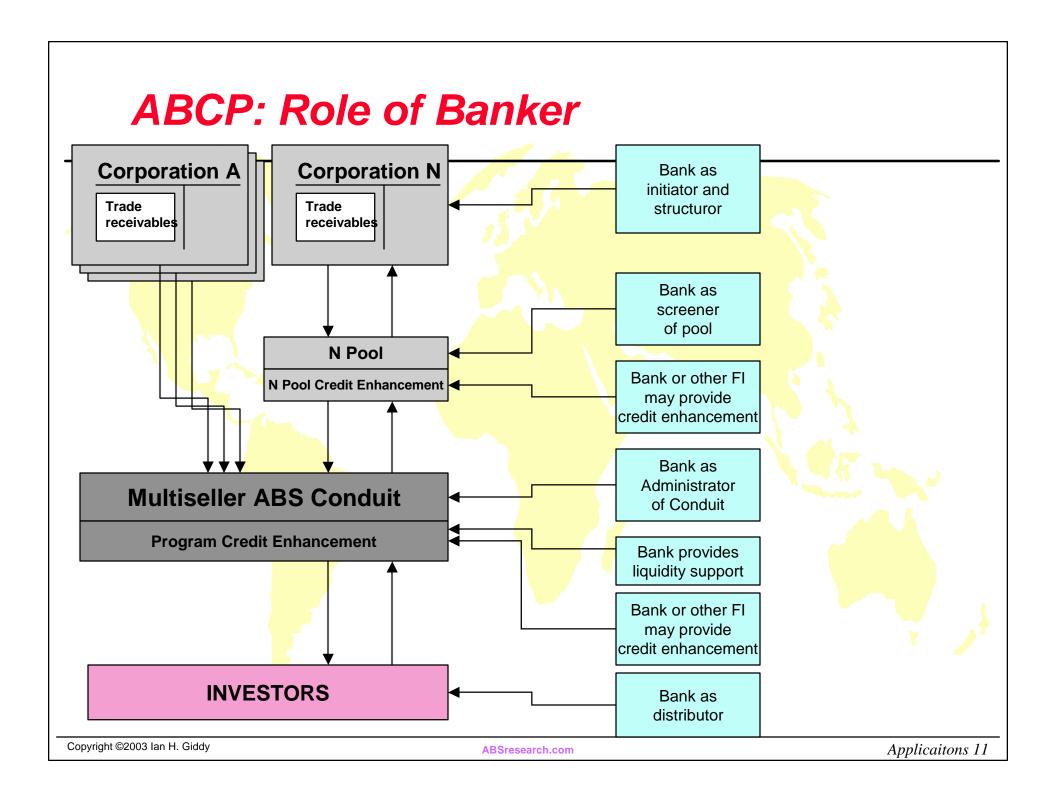
Two Kinds of ABCP

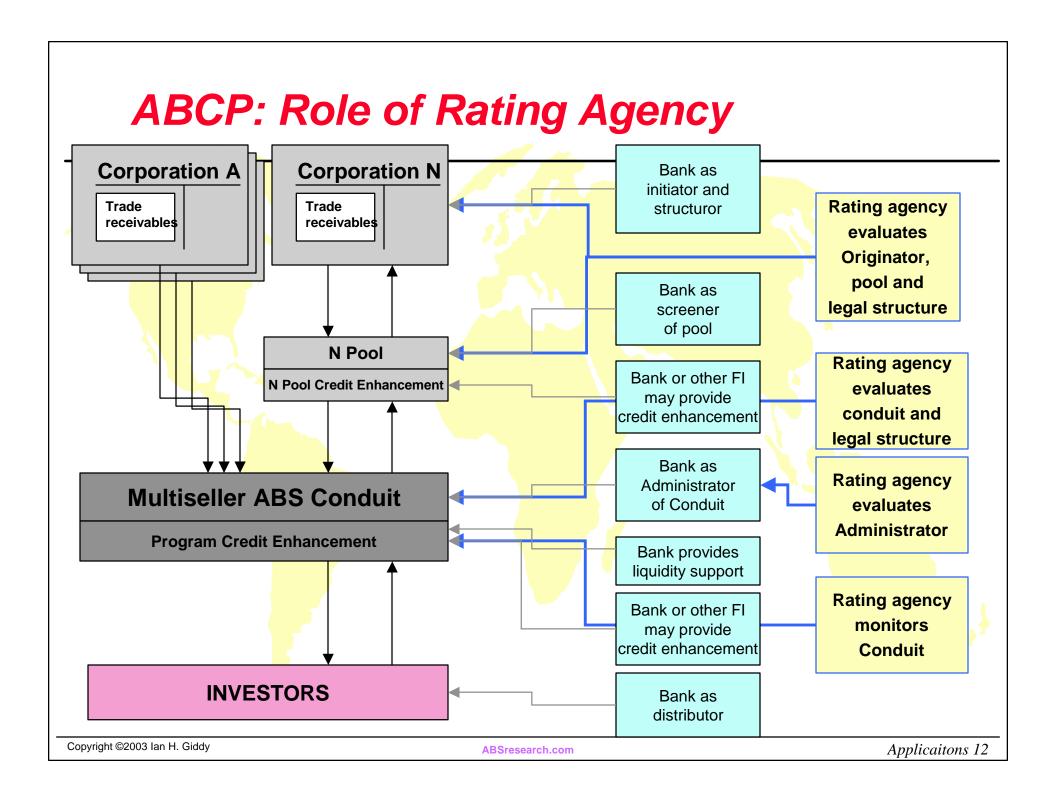
Single-seller ABCP

Multiseller ABCP









Asset-Backed Securities

Collateralized Debt Obligations

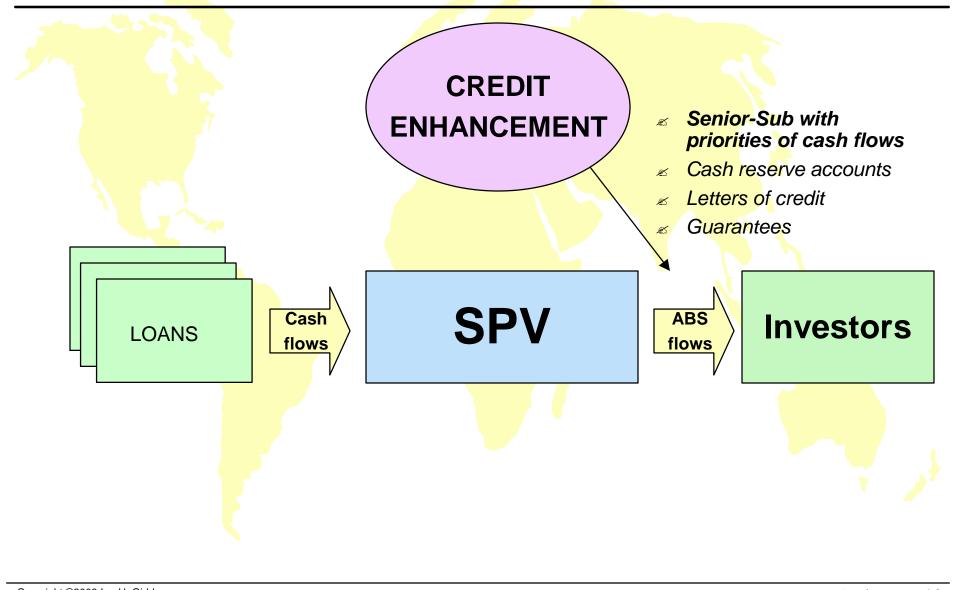
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New York University

Collateralized Debt Obligations

- Cash flow backed CLOs and CBOs
- Market value backed CBOs
- Synthetic CLOs

Cash Flow Backed CLOs **Motivations:** ∠ Free up capital ∠ Lower cost of funding BANK (SELLER) ∠ Distressed loan arbitrage (3rd party sponsors) **LOANS** SALE OR **ASSIGN**MENT **SPECIAL PURPOSE VEHICLE ISSUES LOANS ASSET-BACKED CERTIFICATES** Copyright ©2003 Ian H. Giddy Applications 15 ABSresearch.com

Cash flow Backed CLOs

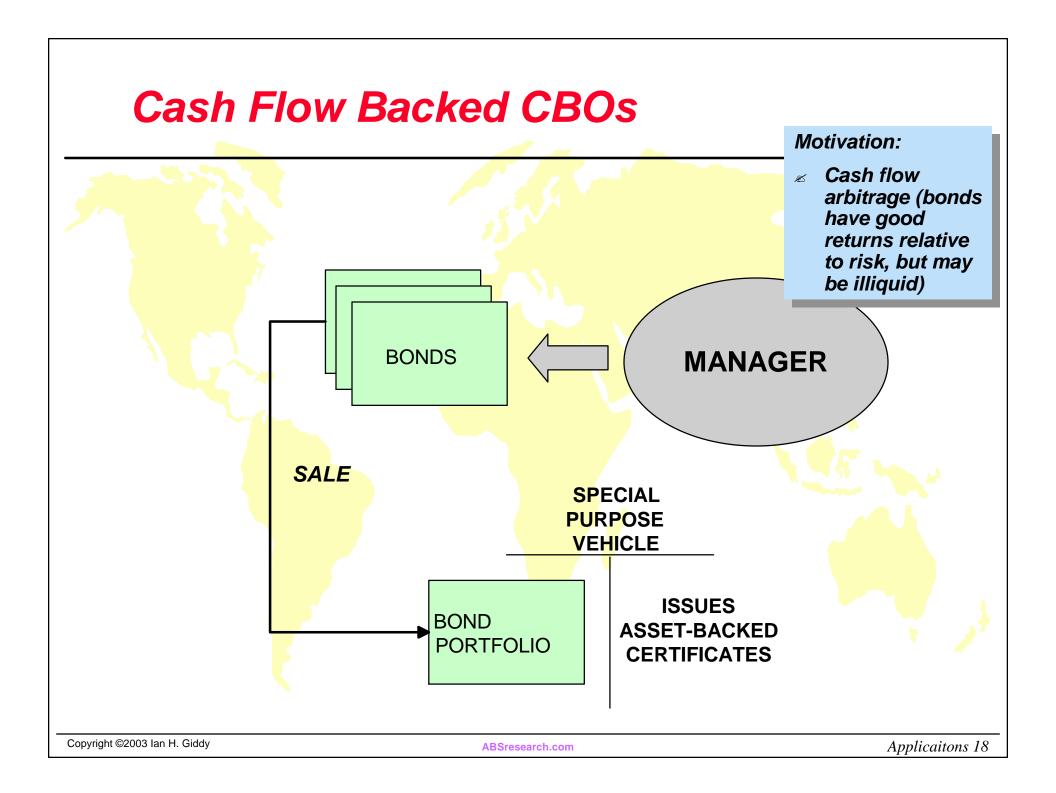


Senior-Sub CLO Structure

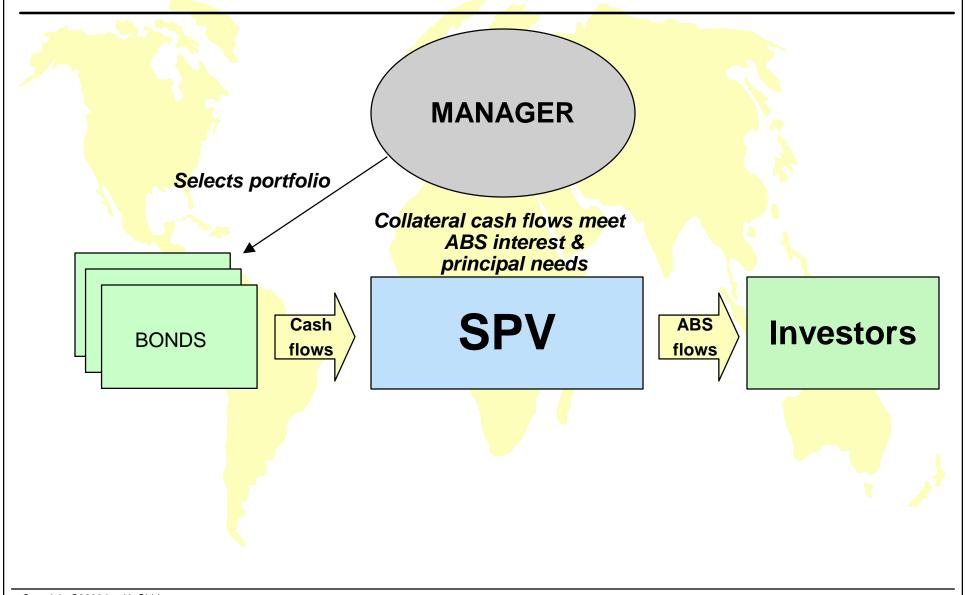
Sample CLO Balance Sheet (\$ Mil.)

Assets (Loans)			%
5,000	4,650	WANAN	93
_	100	W	2
	100	.8BB,	2
	150*	_	3
5,000	5,000		

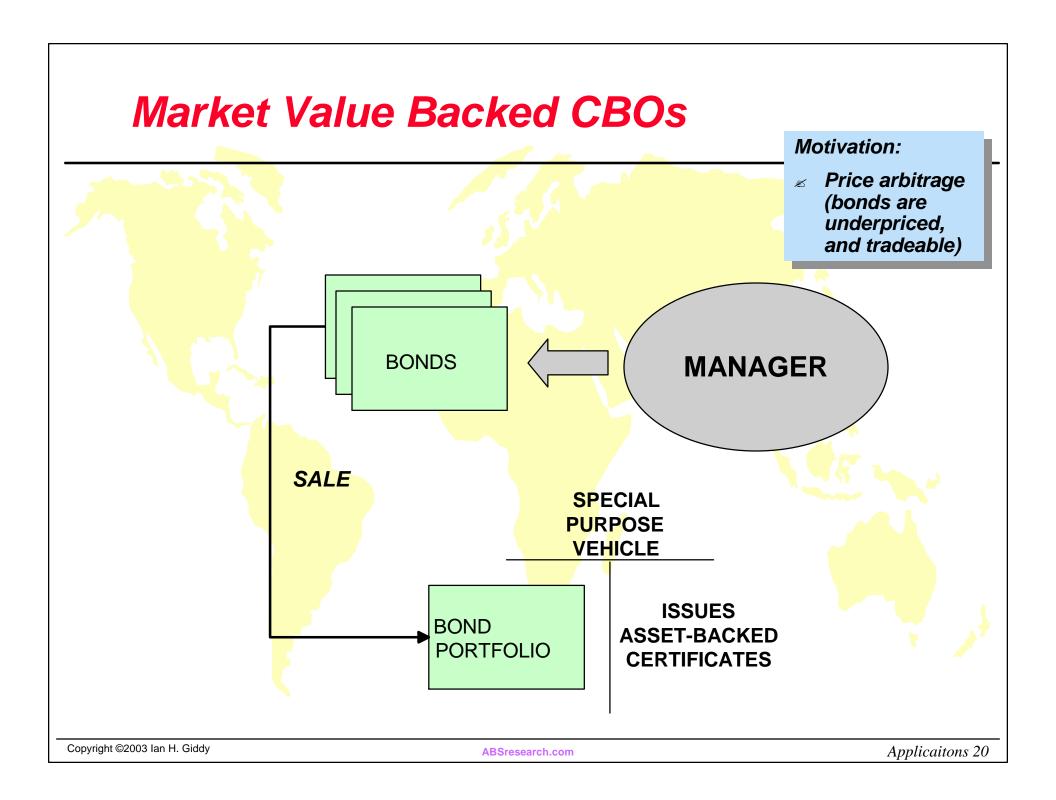
*Equity, not rated. CLO – Collateralized foan obligation.



Cash Flow Backed CBOs



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Advance rates determine how much rated debt can be issued against the market value of an asset.

Asset Category	'B'	'88'	'BBB'	'A'	'AA'	'AAA'
Cash and Equivalents	100	100	100	100	100	100
Certificate of Deposit, Commercial Paper	100	100	99	99	99	99
Senior Secured Bank Loans	96	95	93	91	89	87
'AAA' Corporate Bonds	96	95	93	91	89	87
'AA' Corporate Bonds	96	95	93	91	88	86
'A' Corporate Bonds	96	94	92	89	87	B4
'BBB' Corporate Bonds	96	94	91	88	85	82
'BB-' High-Yield Debt	94	92	90	86	82	77
< 'BB-' High-Yield Debt	93	89	85	80	73	66
Investment-Grade Convertibles	90	86	80	70	60	50
High-Yield Convertibles, PIK, Zero, Step-Up	88	81	76	63	52	40
Mezzanine, Distressed Debt	85	80	73	60	55	27
Emerging Market	85	78	71	50	40	27
Equity, #liquid Debt	85	78	71	50	40	27
Note: Advance rates may vary for more or less diversifi	ied pools.					

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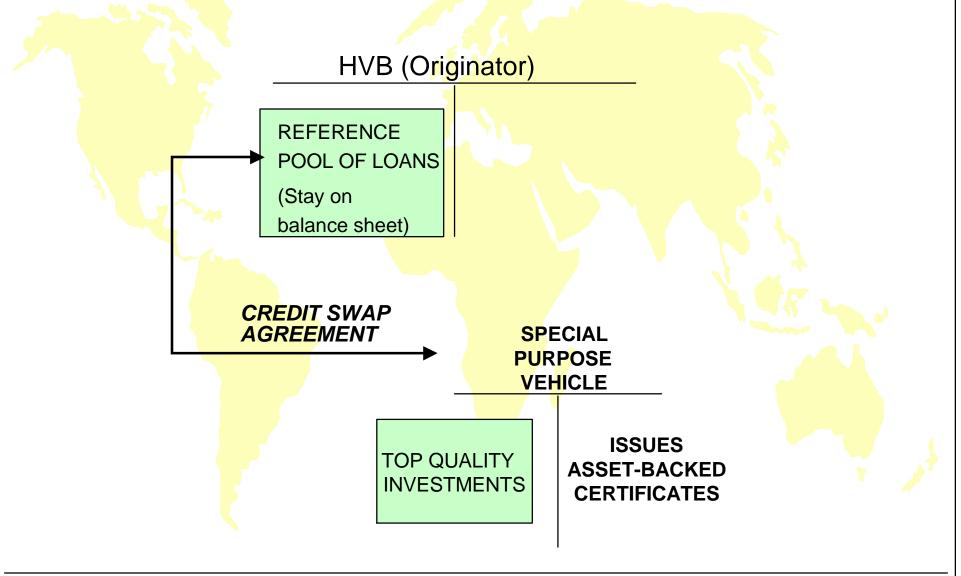
ABSresearch.com

Applications 21

Example of Market Value CBO Asset Mix and Financing

Portfolio Assets	Market Value (S Mil.)	Advance Rate (%)	'A' Discounted Colleteral Value (5 Mil.)	Capitalization	(\$ Mil.)	Rating	Required OC (\$ Mil.)	Additional OC (\$ Mil.)
Bank Loans	300	91	273	Revolving Notes*	500	'ΔΔ'	266	85
'B8' High-Yield Bonds	250	86	215	Senior Notes*	150	',Δ,Δ,'	266	85
'8" High-Yield Bonds	250	80	200	Senior-Subordinate				
				Notes	65	'A.'	212	73
Emerging Market Debt	50	50	25	Subordinate Notes	65	BBB.	142	79
Private Equities	150	50	<u>75</u>	Junior Subordinate				
				Notes	30	1881	107	84
Total	1,000	79	788	Participating Notes	30	'B'	75	86
				Equity	160	NR		
				Total	1,000			

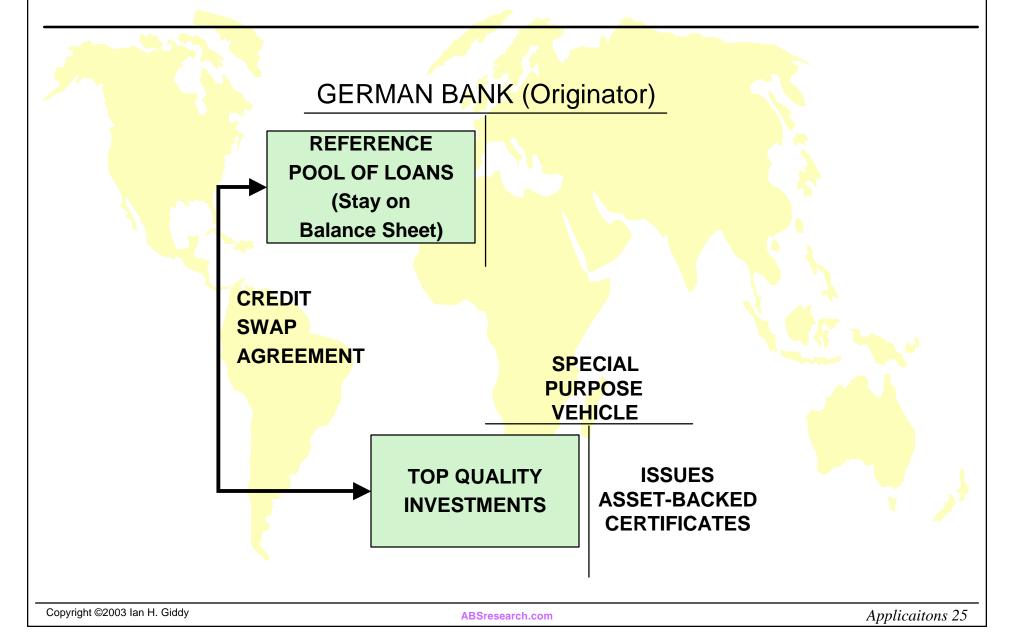
The Alternative: Synthetic ABS



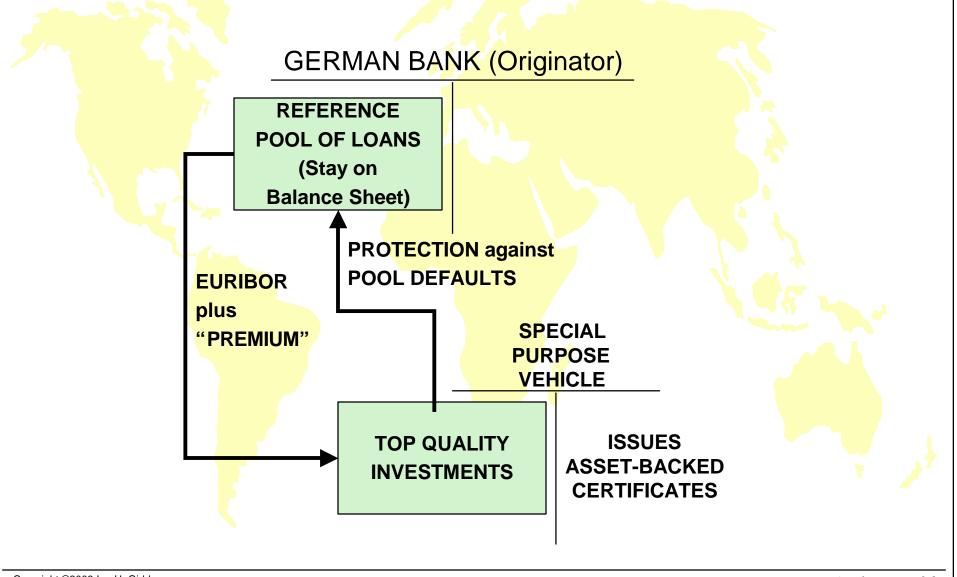
Synthetic ABS or Collateralized Loan Notes

- CLNs are SPV debt backed by the credit of the selling bank (or better)
- No loans are sold to the SPV
- But performance is based on the performance of a reference pool of loans
 - If the reference credits perform, full debt service is made on the CLN
 - If the reference credits default, the CLN is deemed "defaulted" and payment is halted.

Synthetic ABS



Synthetic ABS



Credit Swaps in Synthetics: Doubts

- Problems with the collateral
 - Debates about "events of default"
 - Workouts and other pre-default losses
- Problems with the sponsor bank
 - Obtaining title to the collateral
 - Those "high quality investments"
- And all those swaps

Asset-Backed Securities

Whole Business Securitization

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Whole Business Securitization

- A securitization where the cash flows derive not from the repayment of debt or other pre-contracted cash flows or receivables, but from the entire range of operating revenues generated by a whole business (or a segregated part of a larger business).
- An attempt to improve the credit quality of corporate debt by tying the debt to specific elements of a stable business.

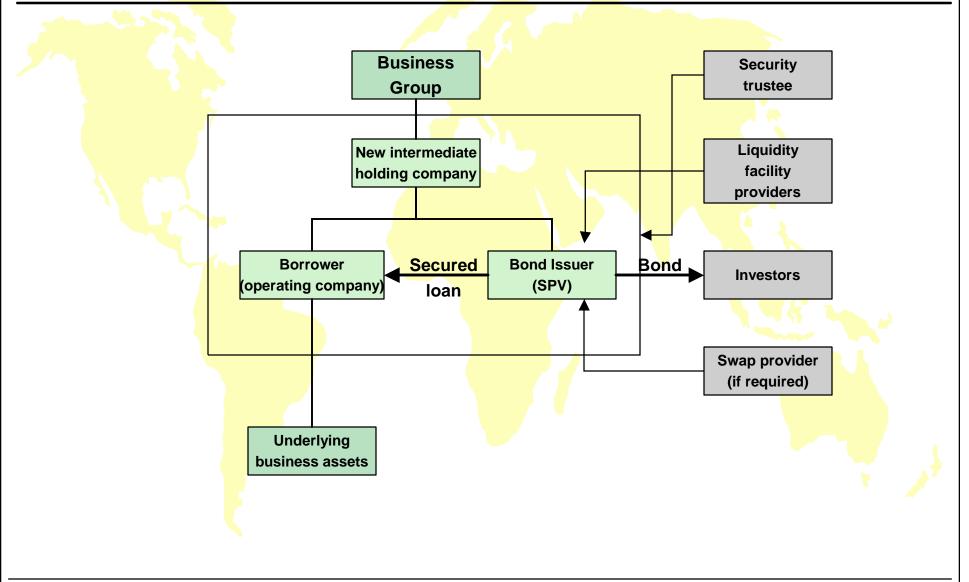
Sports Securitizations

- Pepsi Center Denver
- American Airlines Arena Miami
- America West Arena (refinancing) Phoenix
- Pacific Bell Park San Francisco
- Pro Player Stadium (refunding) Miami
- The Fleet Center Boston
- ALLTELL Stadium Jacksonville, FL
- USTA National Tennis Center New York

The Structure

- The issuer typically owns a loan to an operating company or companies. The loan is in turn secured by operating business assets in ongoing use.
- Both the SPV and the operating companies are owned by the corporate parent. The UK model offers legal assurance that the assets will not be sequestered if the parent enters bankruptcy protection.
- In the event of the insolvency of the corporate parent, the SPV and its trustees continue to run the business.

WBS "Secured Loan" Structure



WBS Alchemy?

TABLE 1 The advantages of securitisation

Debt/equity
Maturity of debt
Cost of debt
Expected return on equity
Debt/EBITDA
EBITDA/interest
EBITDA/interest + principal
Weighted cost of capital

\$tand-alone
50 : 50
15 years
6.5 %
15%
3.8 times
4.0 times
2.6 times
9.6 %

Leveraged Ioan
65:35
10 years
7.5 %
25%
5.0 times
2.7 times
1.5 times
11.9 %

Securitisation 90 : 10 25 years 6.5 % 35% 7.0 times 2.3 times 1.8 times 7.3 %

Source: Sebnem Erol, Deutsche Bank, in *The Treasurer*, July/Aug 1999

La Difference?

- The issuer typically owns a loan to an operating company or companies. The loan is in turn secured by operating business assets in ongoing use, not self-liquidating financial assets like loans.
- Both the SPV and the operating companies are owned by the corporate parent. While the UK model offers legal assurance that the assets will not be sequestered if the parent enters bankruptcy protection, the independence of the SPV has yet to be tested, in the UK as well as elsewhere.
- In the event of the insolvency of the corporate parent, the SPV and its *trustees must find managers to* continue to run the business. The "purpose" of the vehicle looks less and less "special."

Not Completely Separate?

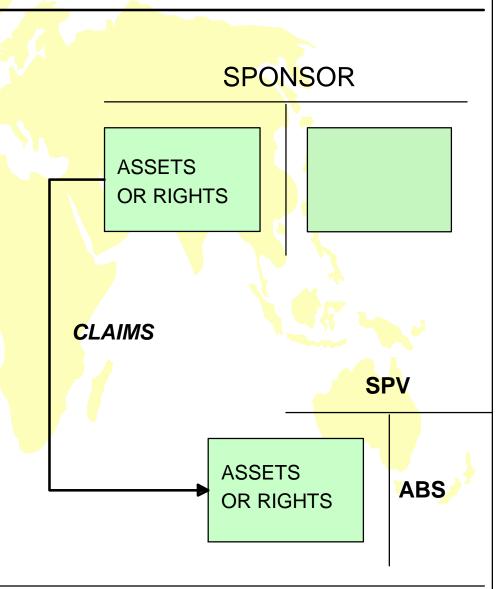
"Standard & Poor's could deem that the assets being securitized are key to a firm's strategy, and that the firm would support them both financially and/or operationally in the case of stress. In this instance, it would be difficult to de-couple the securitized assets from the firm. The impact of such a transaction on a firm's credit profile would be negative."

(S&P, "Principles for Analyzing Structured Finance," RatingsDirect, 2 July 2001)

ABS or Corporate Debt?

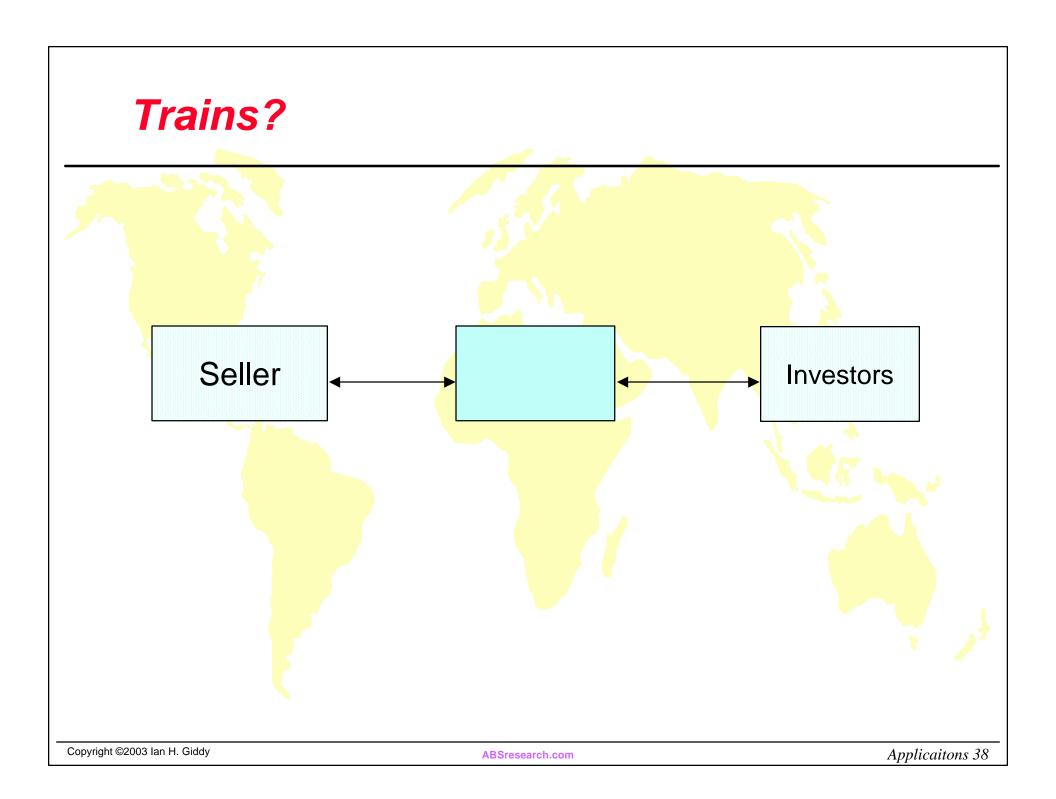
KEY ISSUES:

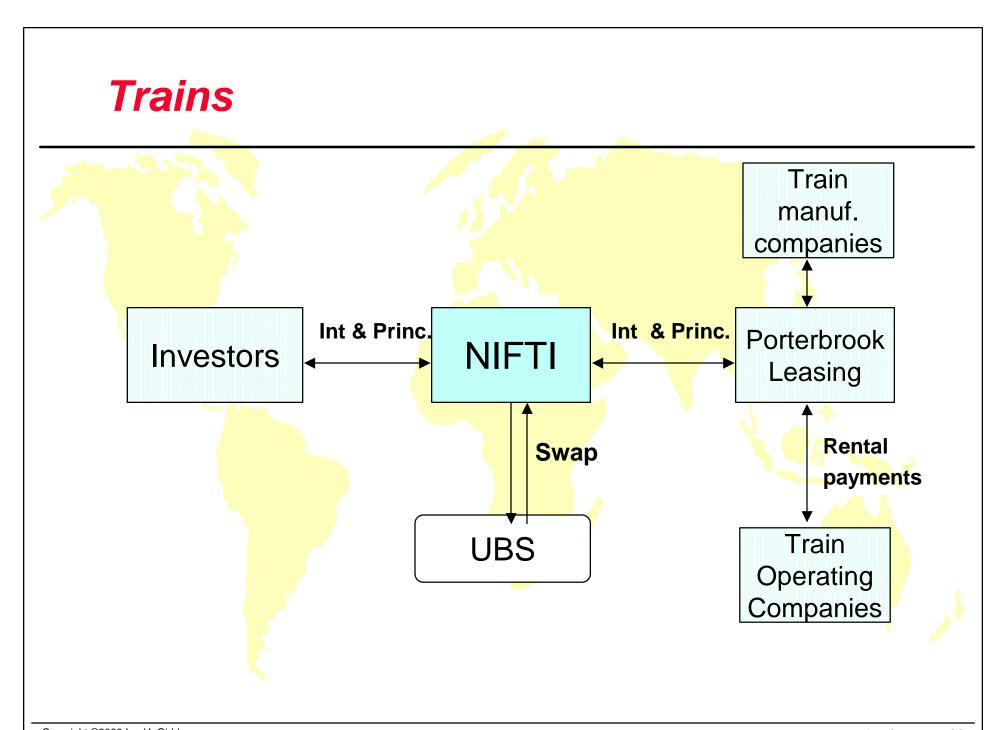
- **∠ HOW ARE THE ASSETS TRANSFERRED?**
- ∠ ARE THE ASSETS
 IDENTIFIABLE FINANCIAL
 CLAIMS ON SPECIFIC
 PARTIES?
- ✓ IS THE POOL AMENABLE TO STATISTICAL AND HISTORICAL ANALYSIS?
- **∠** IS ITS VALUE DEPENDENT ON THE SUCCESS OF THE SPONSOR'S BUSINESS?
- **∠** IS THE STRUCTURE IMMUNE FROM EVENT RISK?



Case Study: Trains I PLC

- What are the underlying assets, and why do they need to be financed in this manner?
- What is the legal relationship between the parties to the deal?
- What are the benefits or risks to the borrower and investors?





A Guide

- The deal − what kind?
- The pool
- The business and the cash flow economics
- The parties involved motivation and quality

Asiansecuritization.com

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