
Topics in Corporate Finance

Securitisations

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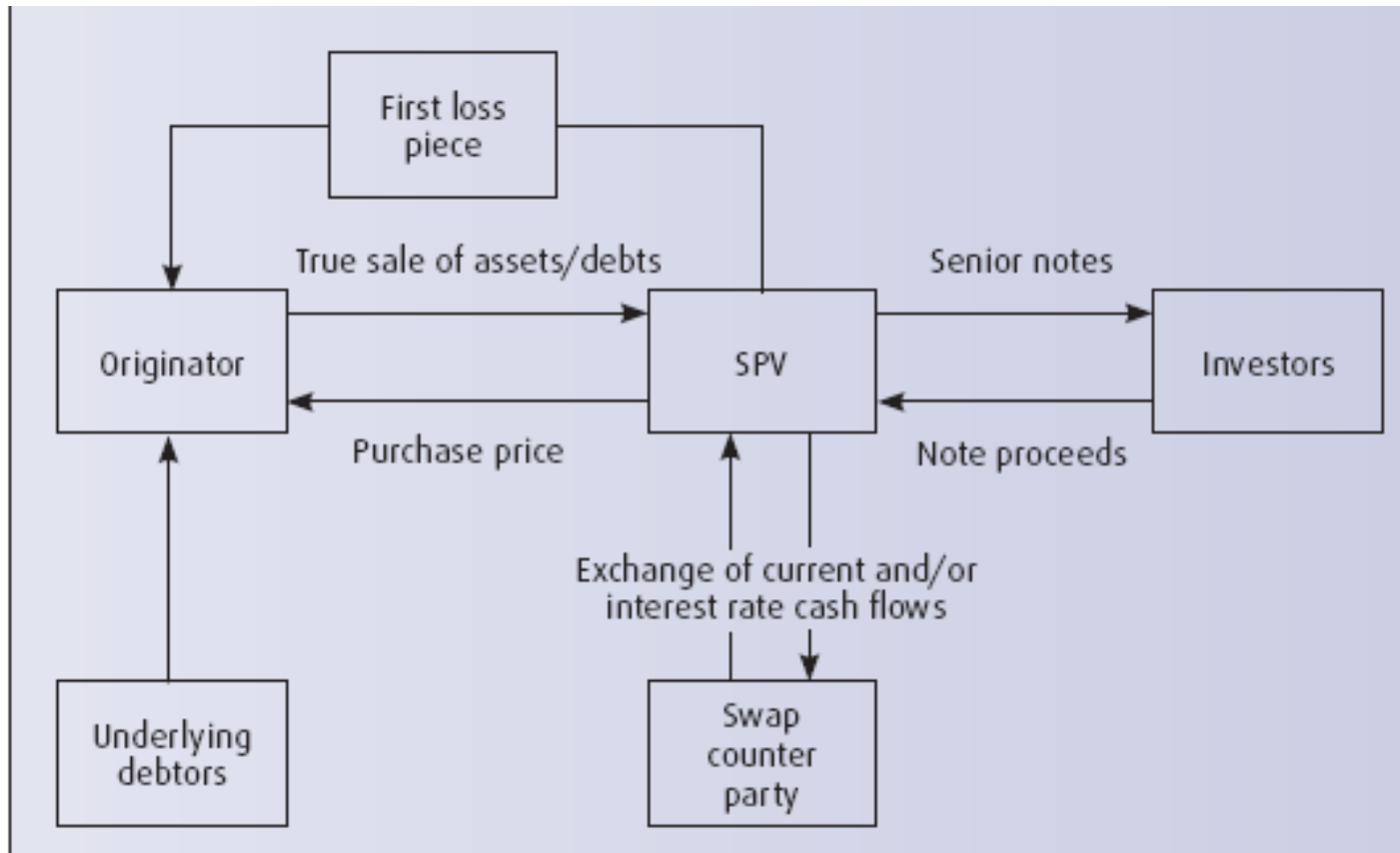
Plan of the Lecture

- **Introduction and overview of securitisations**
- **Securitisation in Practice**
(Richard Golding, Anthem Corporate Finance)
- **Regulation and securitisation**
(Enrique Benito, FSA)

Securitisation technology

- Originator:
 - Original holder of a portfolio of illiquid assets/debts (mortgages, credit card payments,...)
- Special purpose vehicle/entity (SPV or SPE):
 - Buys portfolio by issuing securities (asset-backed securities (ABS))
 - Financed with non-recourse debt to originator (bankruptcy remote)
 - ABS tranching into layers with different risk profiles & rating (e.g. “super-senior”, “senior”, “mezzanine”, “subordinated”, “equity”) attributed by rating agencies such as S&P, Moody’s
- Investors:
 - Buy securities according to their preferences

A simple securitisation transaction



Source: Echave (2008)

Objectives

- For originators...
 - Frees up capital and liquidity taking loans out of balance sheet
 - Allows for regulatory relief (for banks and insurance co.)
 - Reduce cost of capital for originators with low ratings
- For investors...
 - Allows them to invest in this type of assets
- For everyone...
 - Convert illiquid into liquid securities
 - Improve risk sharing

Moral hazard and adverse selection

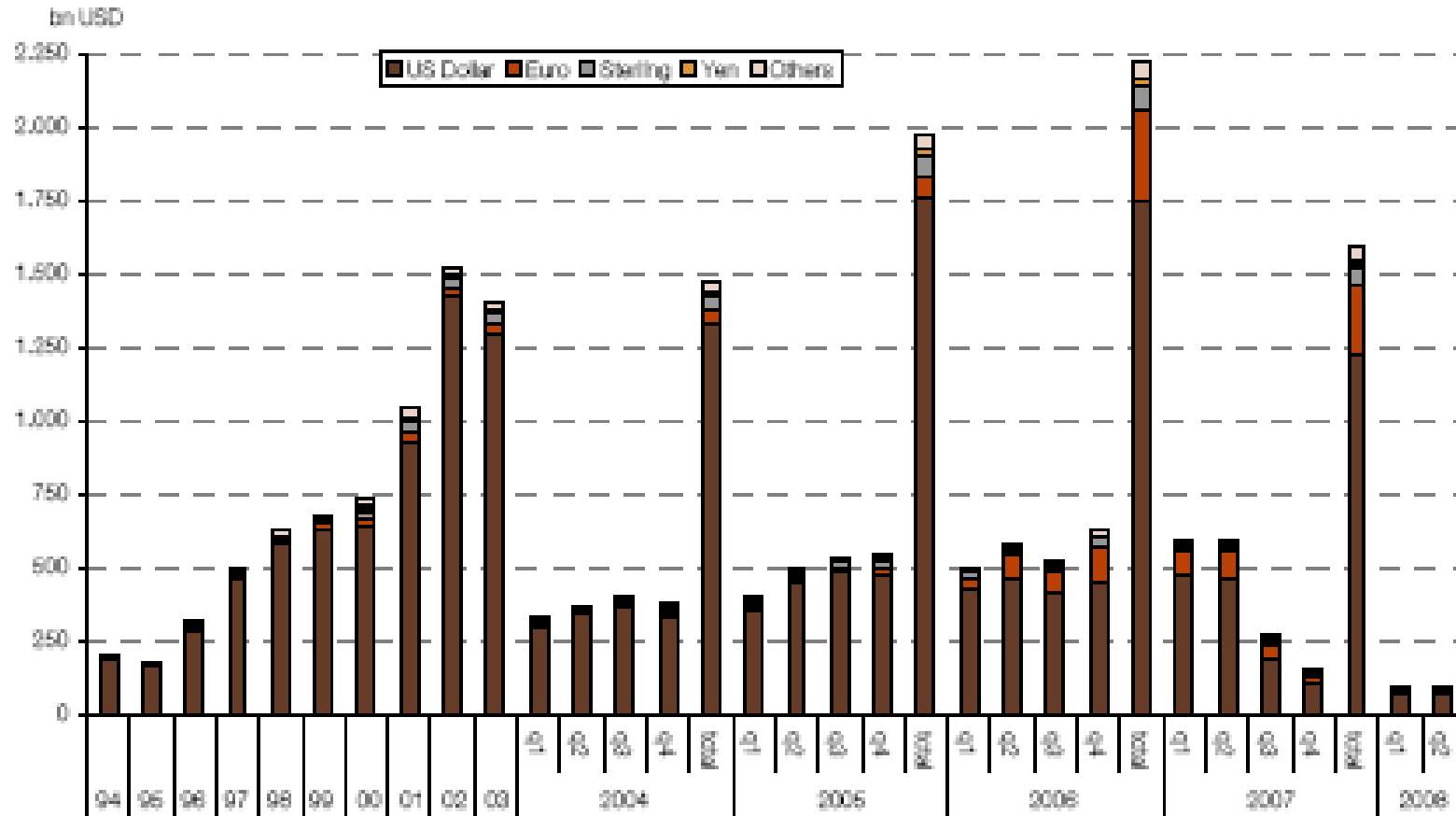
- Banks might not...
 - impose same credit risk assessment
 - longer screen and monitor risks they originate
- View has gained prominence since the outburst of crisis
“...securitization contributed to bad lending: in the old days, banks that originated bad loans bore the consequences; in the new world of securitization, the originators could pass the loans onto others”:
Stiglitz [2007]
- As a result, loans...
 - More likely to be securitized default 20% more than similar risk loans with lower likelihood of securitization (Keys et al. 2008)

Worldwide securitisation levels

- Growth (1995-2007):
 - Spectacular growth and increased diversification in asset classes and jurisdictions
- Liquidity crisis (summer 2007):
 - Concerns over exposure of banks to riskiest segment of US mortgage markets (*subprime mortgage market*)
 - Turmoil spills over other types of securitised transactions
- From liquidity to solvency crisis (2008)

Global securitisation

Chart 1. Global securitization by currency

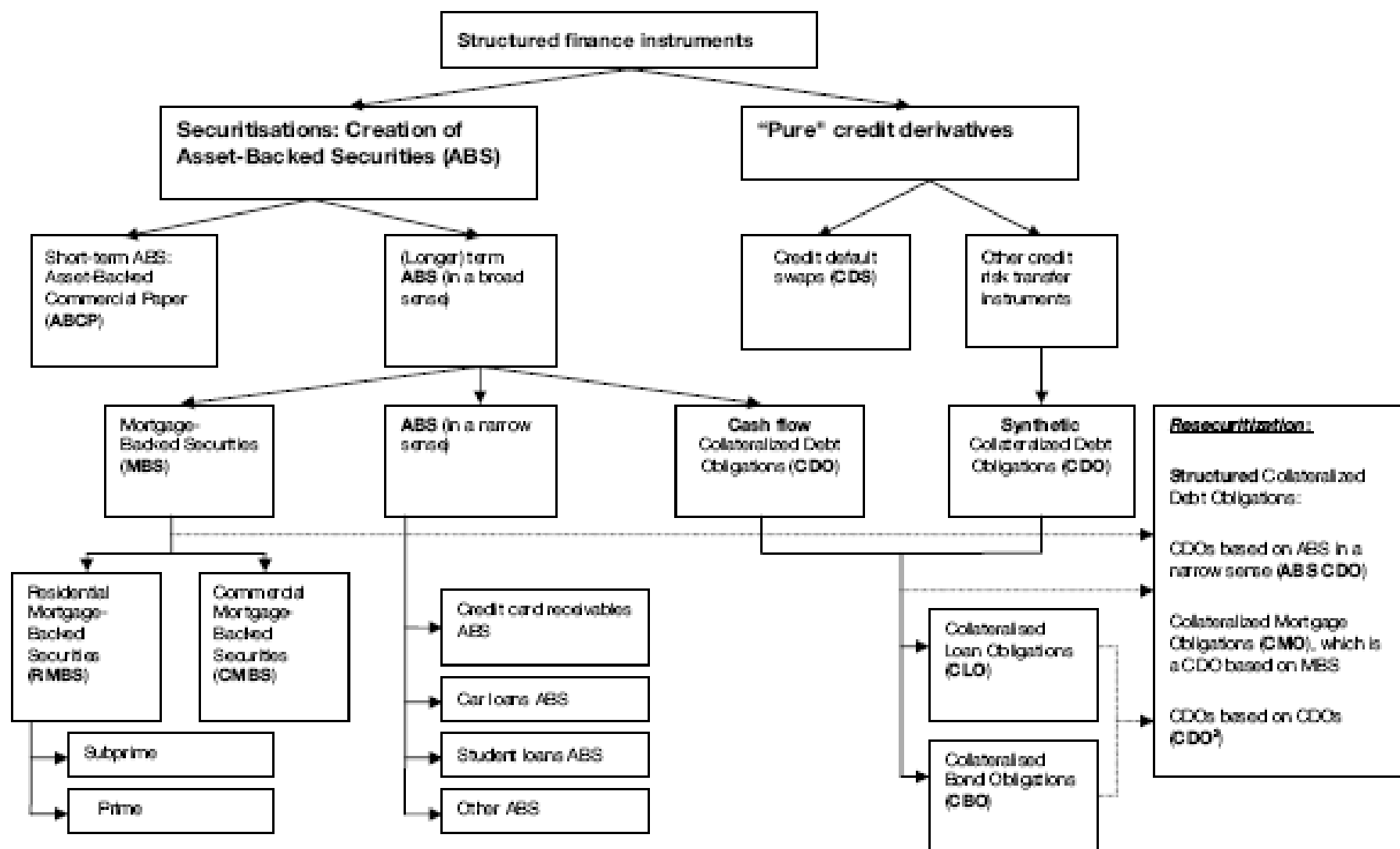


SOURCE: Dealogic.

Securitisations and credit derivatives

- In a true sale securitisation...
 - The underlying assets are actually sold to the SPV
 - They are removed from originators' balance sheet
 - Examples: residential mortgage based securities (RMBS), asset-backed commercial paper (ABS), and others (see references)
- In a credit derivative...
 - only the credit risk is transferred to the SPV
 - buys credit derivatives such as CDS over these assets
 - Examples: credit default swaps,... (see references)

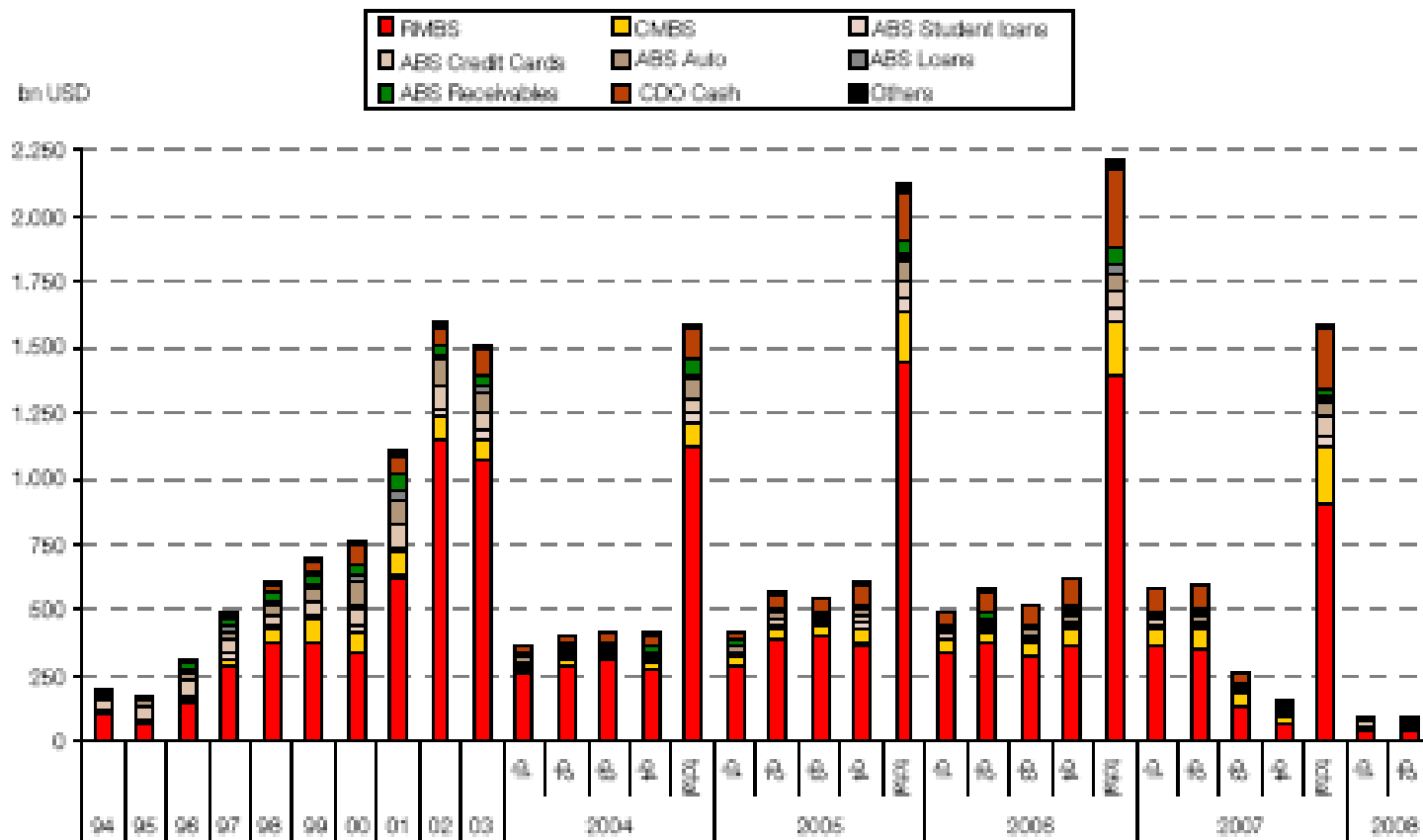
Figure 1: Structured finance instruments and securitization



SOURCE: Own interpretation based on Jobet (2003) and (2006) and BIS (2005a).

Global securitisation by collateral

Chart 2. Global securitization by collateral



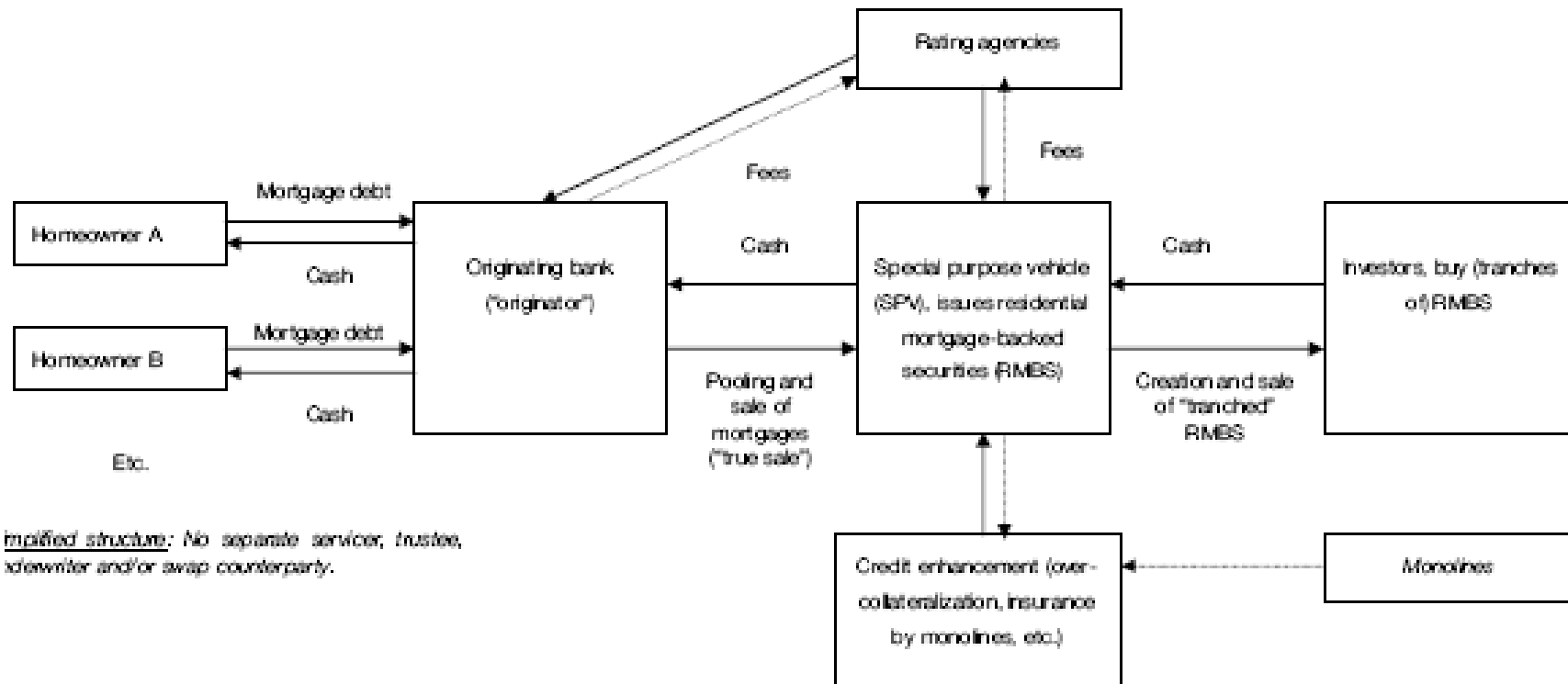
SOURCE: Dealogic.

Example: a RMBS

- Bank (originator)...
 - gives loans to homeowners and puts them together in a pool
 - Sells the pool to a SPV in return for cash
 - No longer has these mortgages in balance sheet
- SPV...
 - Finances the purchase by issuing RMBS
 - RMBS are tranced and rated
 - Can use credit enhancement techniques such as *monolines* (which guarantee that interest and payments will be paid)
- Investors...
 - Buy securities according to their preferences (e.g. pension funds might prefer supper senior tranche)

Figure 2

Example RMBS securitization: Creation of residential mortgage-backed securities (RMBS) ("Cash flow", "true" sale securitization)



implified structure: No separate servicer, trustee, servicer and/or swap counterparty.

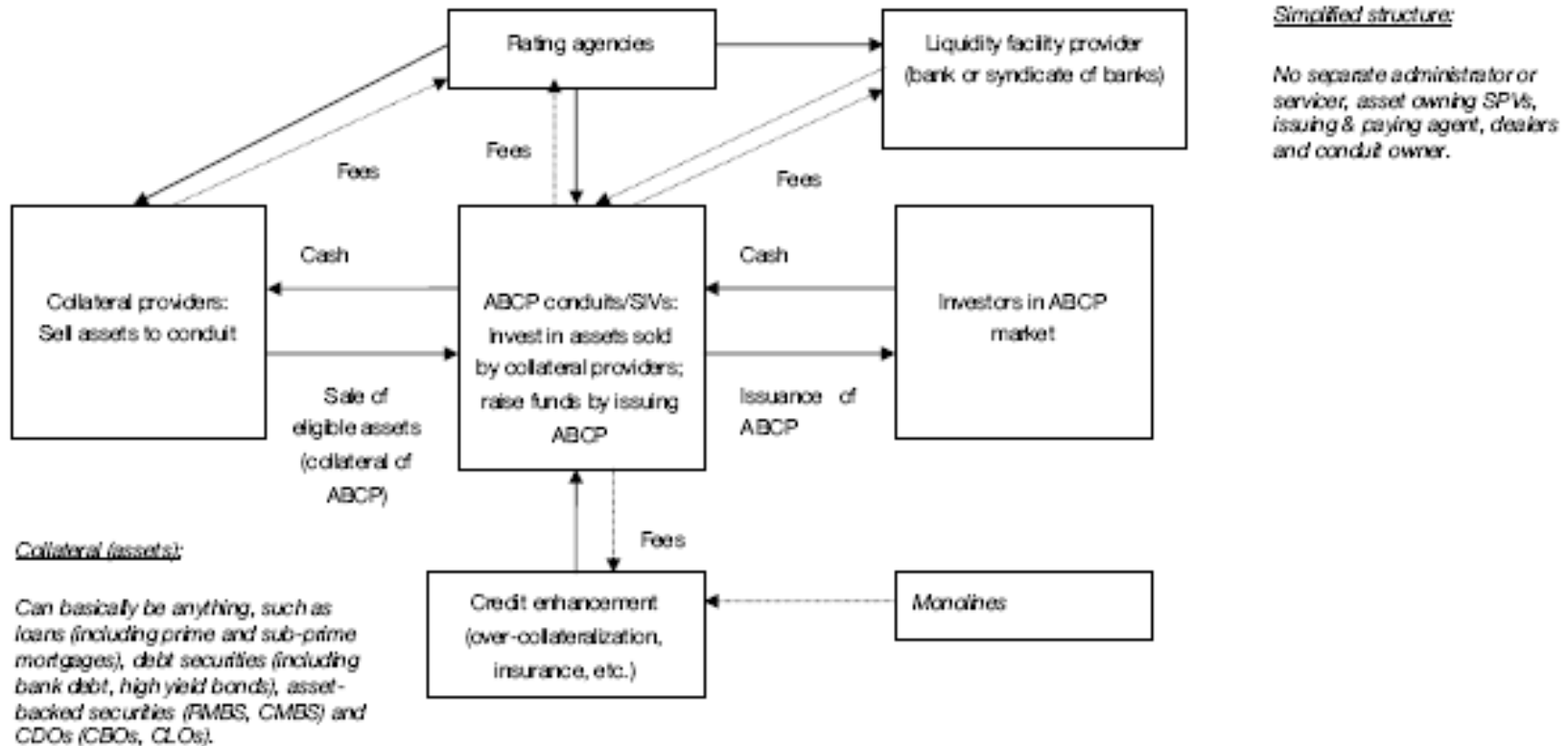
SOURCE: Adapted from: ECB (2008a), Mingle (2007), Fabozzi et al. (2006), Elul (2005), Gorton and Souleles (2005), The Bond Market Association (2004) and Jobst (2003).

Example: Asset-backed commercial paper

- Originators (banks or others)...
 - Obtain financing by selling assets (with a certain rating) to a “conduit” (a type of SPVs)
- Conduit...
 - Finances purchase by issuing asset-based commercial paper (ABCP), with short maturity, which is rolled over constantly
 - Invests in long-term highly rated receivables/loans and securities
 - Not tranching but credit enhancement also often used
- Investors buy...
 - Securities issued by ABCP conduit
- Liquidity provider (bank or bank syndicate)...
 - Provide liquidity in case of financing shortages
 - Important because ABCP has short maturities

Figure 4:

Example ABCP: Creation of Asset-Backed Commercial Paper (ABCP) by ABCP "conduits" / structured investment vehicles (SIVs) ("true sale")



SOURCE: Adapted from: Fitch Ratings (2007), Moody's (2003) and Fitch Ratings (2001).

References

- Criado and van Rixtel: “Structured finance and the financial turmoil of 2007-2008: an introductory overview”, Bank of Spain working paper.
- Echave: “Securitisation: the end of the beginning”, journal of International Banking and Financial Law
- Kavanagh, “Securitization and Structured Finance: Legitimate Business Management Tools”
- Keys, Mukherjee, Seru, and Vig 2008, “Did Securitization Lead to Lax Screening? Evidence From Subprime Loans”, working paper LBS.