Example: Bank profitability

Goal/Measurement #2

Goal: \$1 billion net income

Measurement: Net income (obvious!)

Problem: It's possible to achieve the

income goal while hurting the bank (ie, by taking large risks without adequate compensation or by trading current for future income).

SBCM

Adding Shareholder Value

Example: Bank profitability

Goal/Measurement #3

Goal: 10% (or whatever) increase

in stock price

Measurement: Stock price (obvious!)

Problem: While the stock price is a

much better measure of the true health of the bank than net income, the bank has no direct control over the stock

market.

Example: Bank profitability

Goal/Measurement #4

Goal:

10% (or whatever) increase

in calculated shareholder

value

Measurement:

Shareholder value

Problem:

This is the "best" alternative. The challenge is to create

the correct calculation of

shareholder value.

SBCM

Adding Shareholder Value

RAROC and SVA *

Risk-adjusted return on capital:

 $R4ROC = \frac{\text{Revenue} - \text{Expenses} - \text{Expected Loss}}{\text{Capital}}$

for entire portfolio OR individual obligor

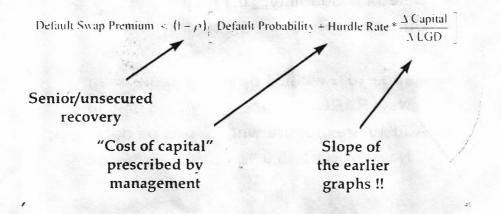
Shareholder value:

SUA = Capital * (RAROC - Cost of Capital)

* (without taxes !)

When does it make sense to hedge?

The (change in) SVA must be positive!

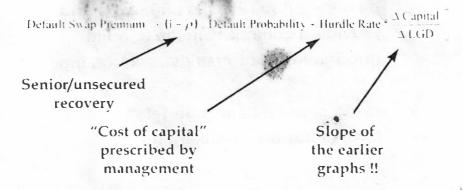


SBCM

Adding Shareholder Value

When does it make sense to add exposure? (Could be default swap or new business)

* The (change in) SVA must be positive!



Large Exposure, Low Risk Borrower

★ Current LGD: > \$ 200 MM

Default probability: 0.11% pa

* Current RAROC: 5.3 %

Hedge 10% with 24 bps pa default swap:
New RAROC: 5.6 % SVA: \$ 34,500

Add 10% exposure with 20 bps pa def swap:
New RAROC: 5.0 % SVA: - \$ 56,500

SBCM

"Classical" Banking

View 1:

"Relationships are the core of banking"

- * The only purpose of making loans and providing commitments is to build (profitable) relationships ... "bundling"
- Taking credit risk in "non-relationship" form is not what bankers do

View 2:

"A Bank is just a portfolio of credit risks"

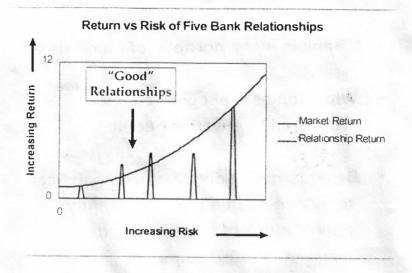
- What you hear at conferences from credit derivative people
- Bankers need sophisticated analytical tools and should think constantly about "efficient frontiers" and marginal Sharpe ratios

SBCM

Modern Banking

"Reconciliation: need relationships AND portfolio mindset"

- The value of the relationship must be quantified and the banker must demonstrate above-market return
- Banks must manage the credit risk they incur in their relationship lending. This management requires "non-relationship" credit products.



SBCM

Modern Banking

The Essence of Banking!

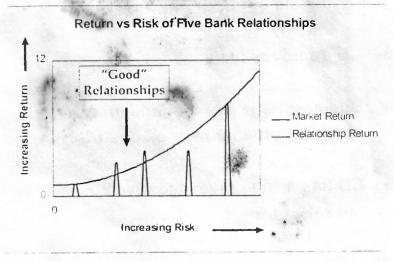
- Leverage marketing relationships to achieve above-market returns
- Above-market return comes from "other business" arising from loans
- Return must be above-market to justify the Bank's existence ... the shareholders can earn market returns directly

Credit Paradox

- Ideally, would like to take credit risk only in "good relationships"
- Problem: there are not enough such relationships to form a diversified portfolio will inevitably become over-concentrated

SBCM

Relationship Banking



(I like this picture so I'm showing it again.)

Two Key Observations/Opinions

- No position is too risky as long as the yield is sufficient. The bigger "risk" is not being paid enough. (Example: I would lend \$100 to a borrower with 10% default probability if I'm paid \$25.)
- Portfolio diversification is critical to managing the risk incurred in relationship lending.

SBCM

Classical Banking

Role of the Credit Department

- CD approves (yes/no)
- 模
- Business side has too little incentive to take consider the risk of a trade
- * CD has a "negative incentive" to reject trades

Throw out the old model !!

- CD no longer has approval authority... business side must earn "market return"
- CD will perform credit hedging (direct reduction of exposure on some names as well as portfolio diversification) with credit derivatives

Better Incentives!

SBCM

Ultimate Business Model

Throw out the old model!!

- CD charges the business unit for the credit risk it incurs
- New model: marketers and traders
 (aka "hedgers") in a capital markets group

Example:

Bank extends facility to Circus Circus

- Pricing is 150 bps pa; Market level is 200; "other business" will be profitable; CD charges 200 bps pa for the risk
- CD will hedge exposure if it does not "like" Circus Circus credit ... can even go short

CD manages the portfolio to accommodate the relationship business

SBCM

Ultimate Business Model

"New World" Advantages

- Business freedom with the clear and explicit requirement to earn the market return (with all expenses considered)
- Credit analyst job more rewarding ...
 with more (extreme!) market orientation

Both sides have more responsibility, chaffenge, and accountability no longer "two sides"

- Risk-Adjusted Return on Capital
- * BIS Regulatory Rules
- Adding Shareholder Value
- Next Generation Bank Business Model