

TW3421x - An Introduction to Credit Risk Management

Introduction

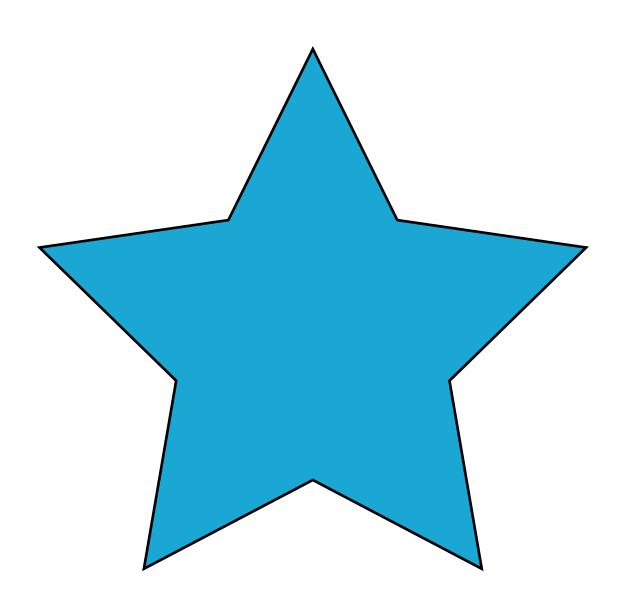
The Basel Accords: Basel III

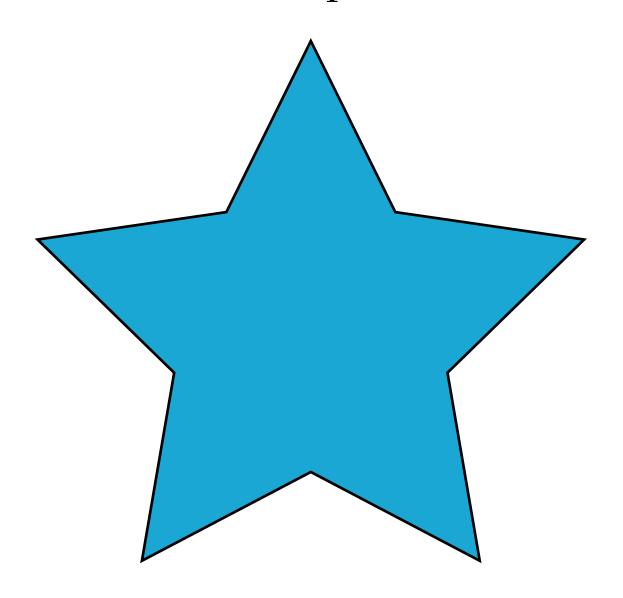
Dr. Pasquale Cirillo

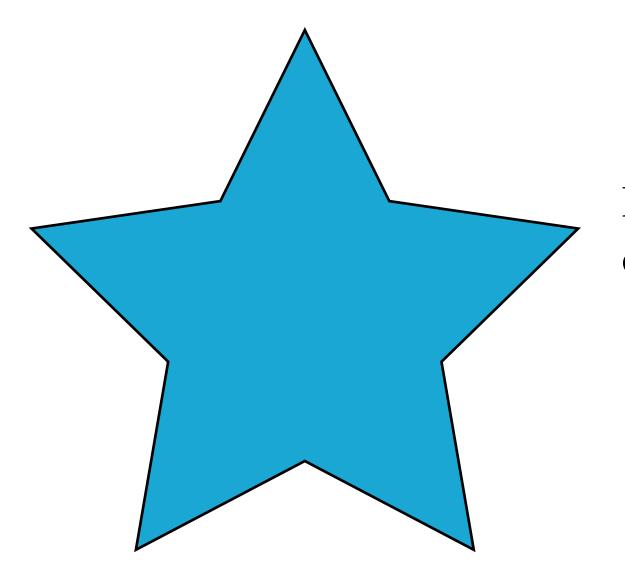
Week 1 Lesson 3

2007-2008: The Crisis remonde éco&entreprise THE WALL STREET JOURNAL What's News-Faut-il-couper les banques en deux? Lehman Races to Find a Buyer Crisi finanz ica Is Said to Be in Preliminary Talks; U.S. Plays Matchmaking Role Our guide to America's election C on l'Unione Europea i cittadini dovevano es-The Europe's Schadenfreude sere protetti e tenuti inden-**Economist** Music on your phone ni da ogni sorta di crisi. (...) Lehnan Collapse Sends mare, of Shock Wave Foundation to cold and the state of the s (...) Così é stato fino a c **Reassessing China** Somalia's pirates s Strains Options nanzki Vorld on e edge

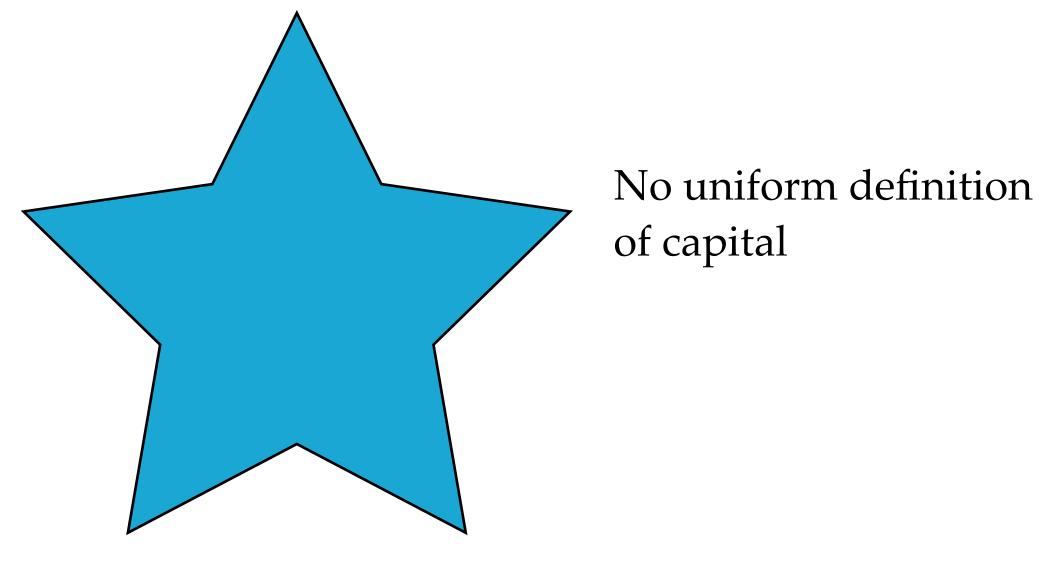
The flaws of Basel II



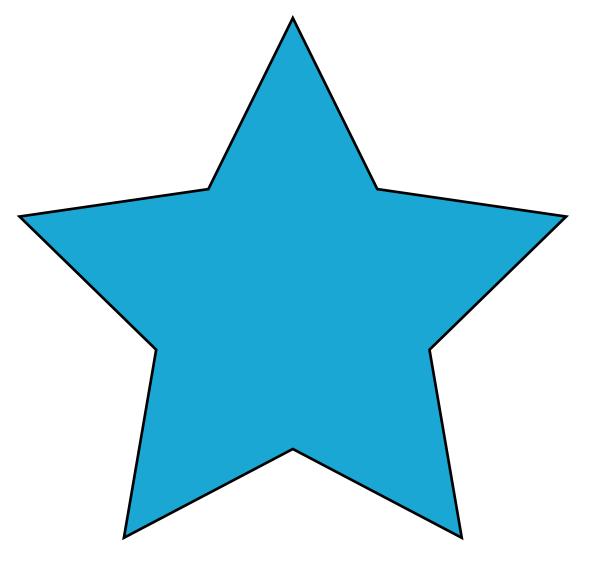




No uniform definition of capital



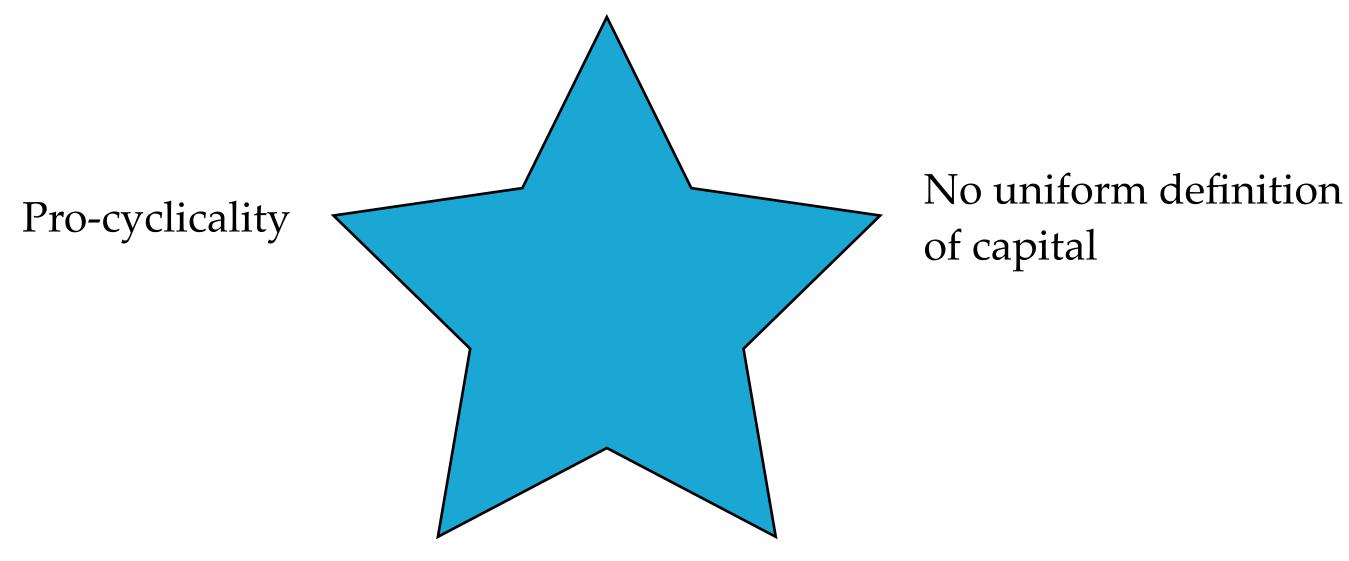
Inadequate risk management approach



No uniform definition of capital

Underestimation of liquidity risk and excessive leverage

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Basel III

- * (Basel 2.5 in 2011)
- * First Basel III proposals in 2009.
- * First version in 2011.
- Many amendments.
- * The implementation is now ongoing.
- * Fully operative in 2018/2019.

The key points

- * Capital definitions and requirements.
- Capital conservation buffer.
- Countercyclical buffer.
- * Leverage ratio.
- * Liquidity risk.
- Counterparty Credit Risk.

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Capital Definitions & Requirements

TIER 1

Core capital:

- •Share Capital
- Retained Earnings

Does not include goodwill or deferred tax assets.

At least 4.5% of RWA at all times!

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TIER 2

Supplementary capital, e.g. debt subordinated to depositors, with an original maturity of 5 years.

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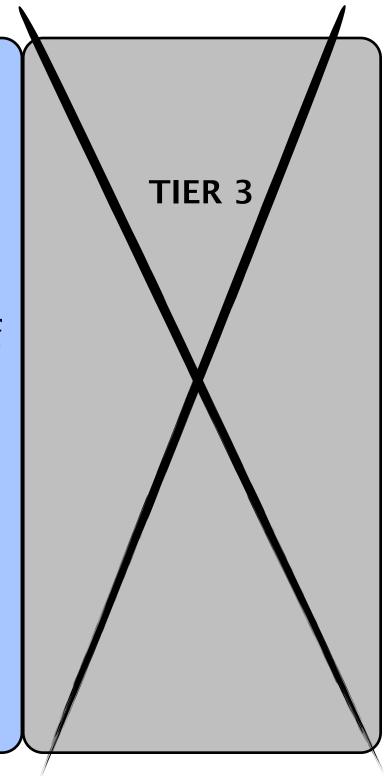
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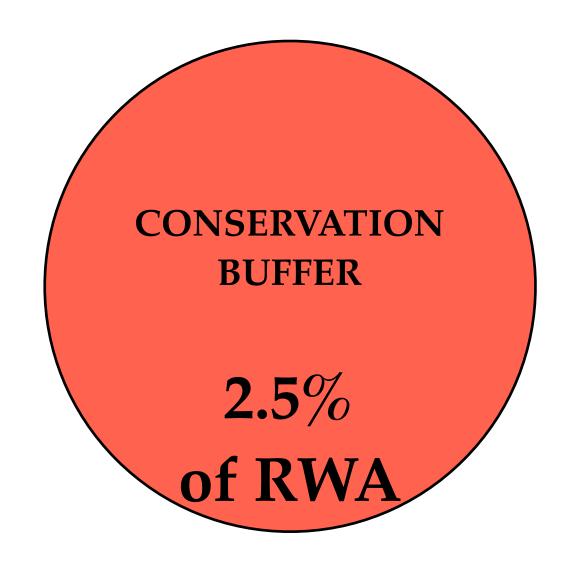
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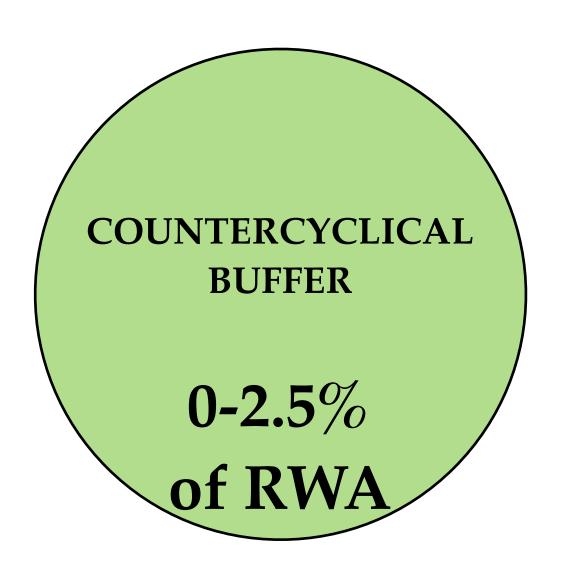
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Capital Buffers

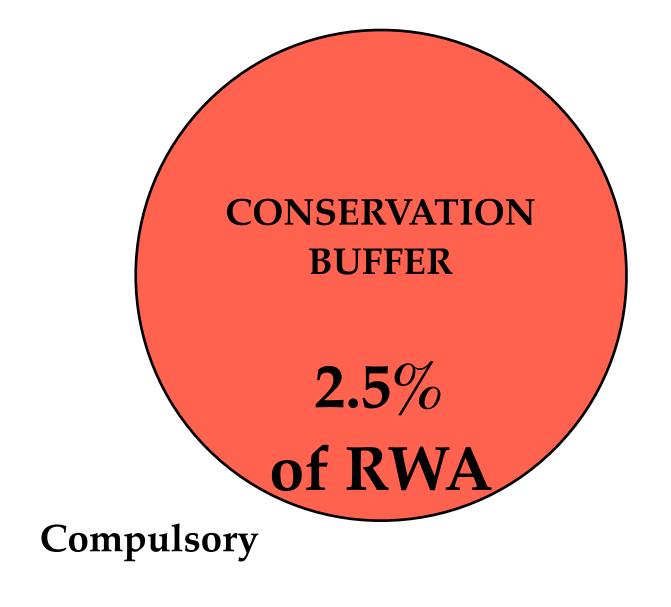
- Basel III asks banks to have additional capital buffers, in order to hedge risk.
- * They must be met with Tier 1 capital.

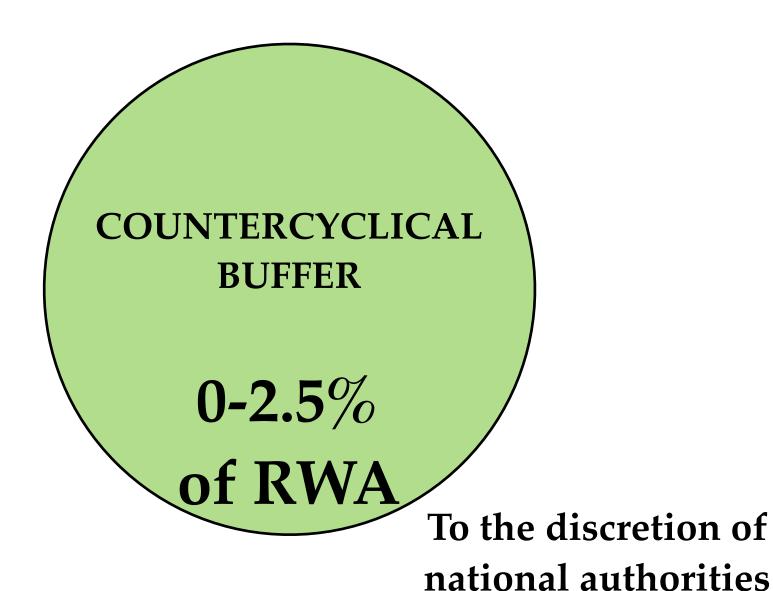




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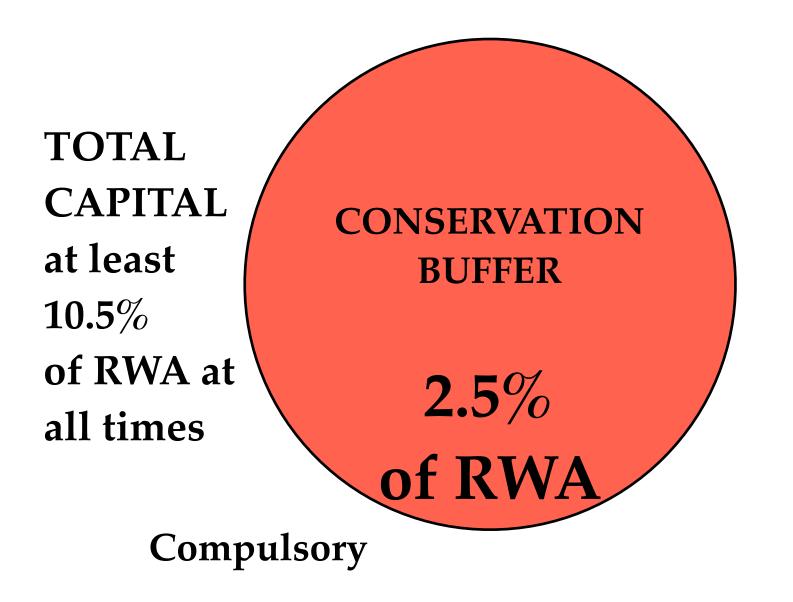
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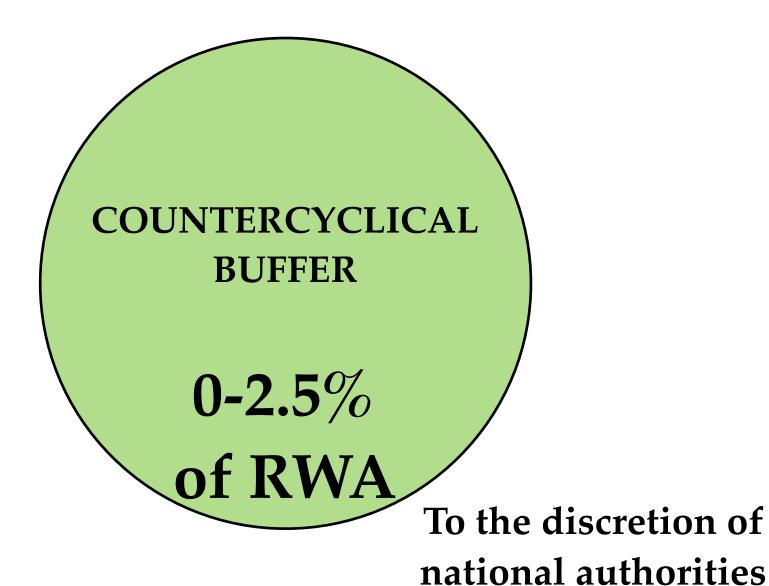




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Leverage

- * In addition to the capital requirements based on RWA, banks are supposed to keep a minimum leverage ratio of 3%.
- * The leverage ratio is the ratio of capital to total exposure.
- * Regulators may impose stricter regulations.

 In the US, for some **Systemically Important Financial Institution** (SIFI) the leverage ratio is at least 6%.

Liquidity Risk

- * Liquidity risk is the risk that manifests itself in situations in which a party interested in trading an asset cannot actually do it because nobody in the market wants to trade for that asset.
- * For banks it generally arises because banks have the tendency to finance longterm needs with short-term funding.
- * In good times, this is not generally a problem.
- * In bad times, it can lead a bank to the impossibility of rolling over and financing itself.

Counterparty Credit Risk

- * Under Basel III, for each of its derivatives counterparties, a bank has to compute a quantity known as **credit value adjustment**, or CVA.
- * CVA can vary because of changes in the market variables influencing the value of the derivatives, or because of variations in the credit spreads applicable to the counterparty.
- * If you are interested, this can be the topic of Week 7.

Thank You