



Advice on how to set interest rates on inter-company loans

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1 | Inter-company loan interest rate-setting methodology

Foreword

- ❑ This document sums up Afi's advisory service on offer to multinationals faced with setting transfer prices for loan and deposit transactions between related parties.

- ❑ These loan and deposit transactions must be performed on an arm's length basis to comply with tax regulations and prevailing related-party transaction accounting standards.

Applicable regulations

Method

- The 'comparable uncontrolled price' (CUP) method

Definition

- The CUP method “compares the price charged for property or services transferred in a transaction with a related person or entity (controlled transaction) to the price charged for property or services transferred in a comparable transaction between independent persons or entities (uncontrolled transaction) making reasonable adjustments as necessary to ensure comparability and factor in transaction-specific circumstances.” (article 16 of the Consolidated Text of Spain's Corporate Income Tax Act)

Inter-company loans

- Application of the CUP method requires identifying the borrowing cost which a financial institution would apply to the borrowing entity by using the credit risk analysis techniques customarily used by the banks.

Inter-company deposits

- Use of the CUP method requires identifying the remuneration which the depositing entity would obtain on deposits made in the same currency at any deposit-taking entity unrelated to the group.

2 | Description of Afi's rating model

Structure of the model

Model inputs

- Afi's model uses quantitative and qualitative inputs:
 - Quantitative: financial ratios
 - Qualitative: sector, country, age, whether or not listed, size

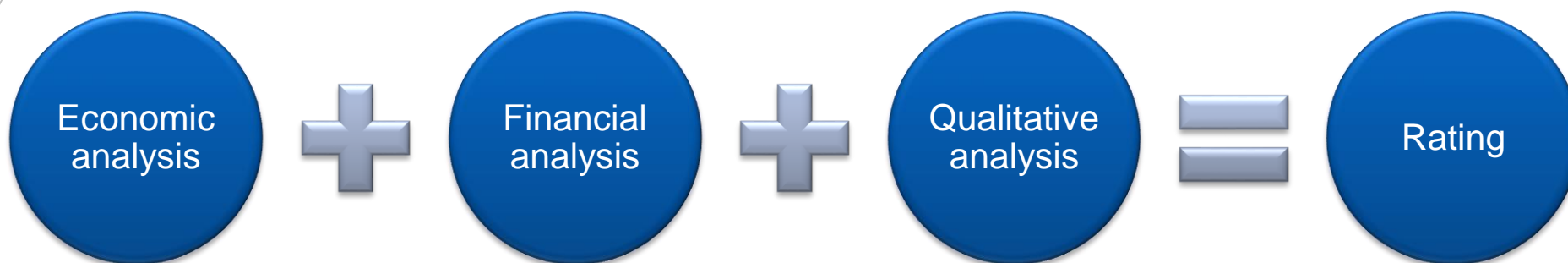
Analysis

- The analysis is based on historical information, using the financial statements for the last five years, albeit ascribing greater weight to more recent years.
- The process uses the key ratios which define a company's creditworthiness
- The weighting of the inputs, the definition of cutoff points and the equivalence between scores and ratings was determined to maximise the success rate compared to real samples.

Model output

- The output is a credit rating which emulates the rating agencies' scale (AAA / C) and can be directly translated into a probability of default (PD)

Model inputs



- Revenue growth
- EBITDA margin
- Net profit margin
- Asset turnover
- ROA
- Average collection period
- Average payment period
- Inventory turnover

- Liquidity
- Financial autonomy
- Leverage
- Debt coverage
- Interest coverage
- Cash generation
- Capex requirement

- Sector
- Age
- Geographic location
- Size
- Listed or not

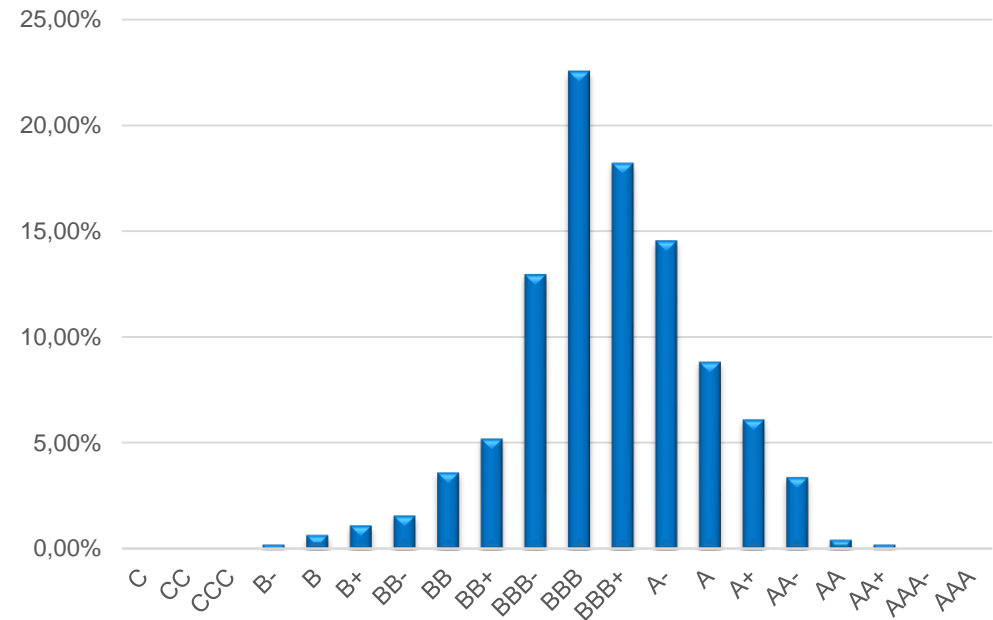
IG	HY
• AAA	• BB+
• AAA-	• BB
• AA+	• BB-
• AA	• B+
• AA-	• B
• A+	• B-
• A	• CCC
• A-	• CC
• BBB+	• C
• BBB	
• BBB-	

The model is calibrated using samples of actual companies: real instances of company default + companies with public ratings

- A number of company samples were used to fine-tune the model:
 - Listed companies: over 500 EuroStoxx 600 and S&P 500 companies rated by Moody's and S&P.
 - Unlisted companies - over 500 companies between:
 - Companies with public ratings
 - Real default and non-default samples provided by the banks

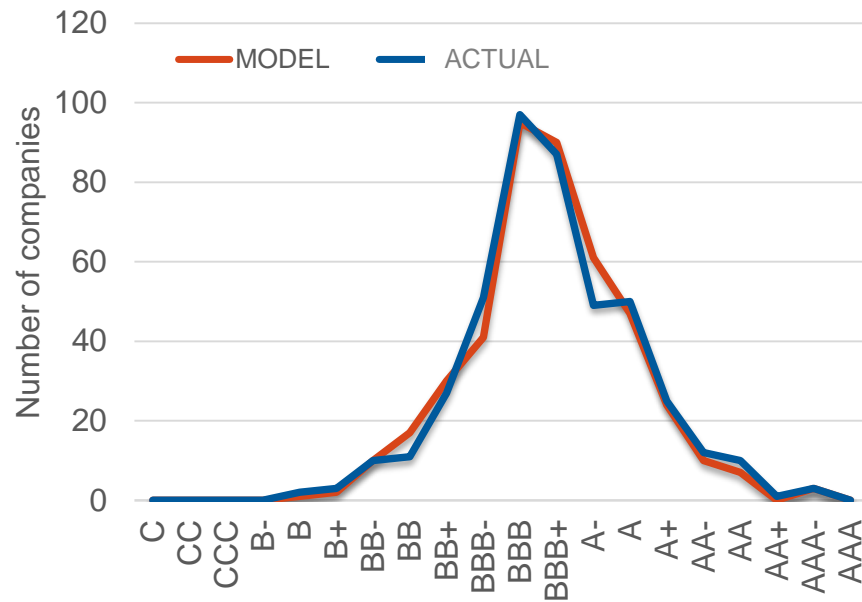
- The model is recalibrated regularly to input the latest financial statements of the companies in the sample as well as rating updates.

Sample distribution by rating



Model predictability: cross-checking against public ratings

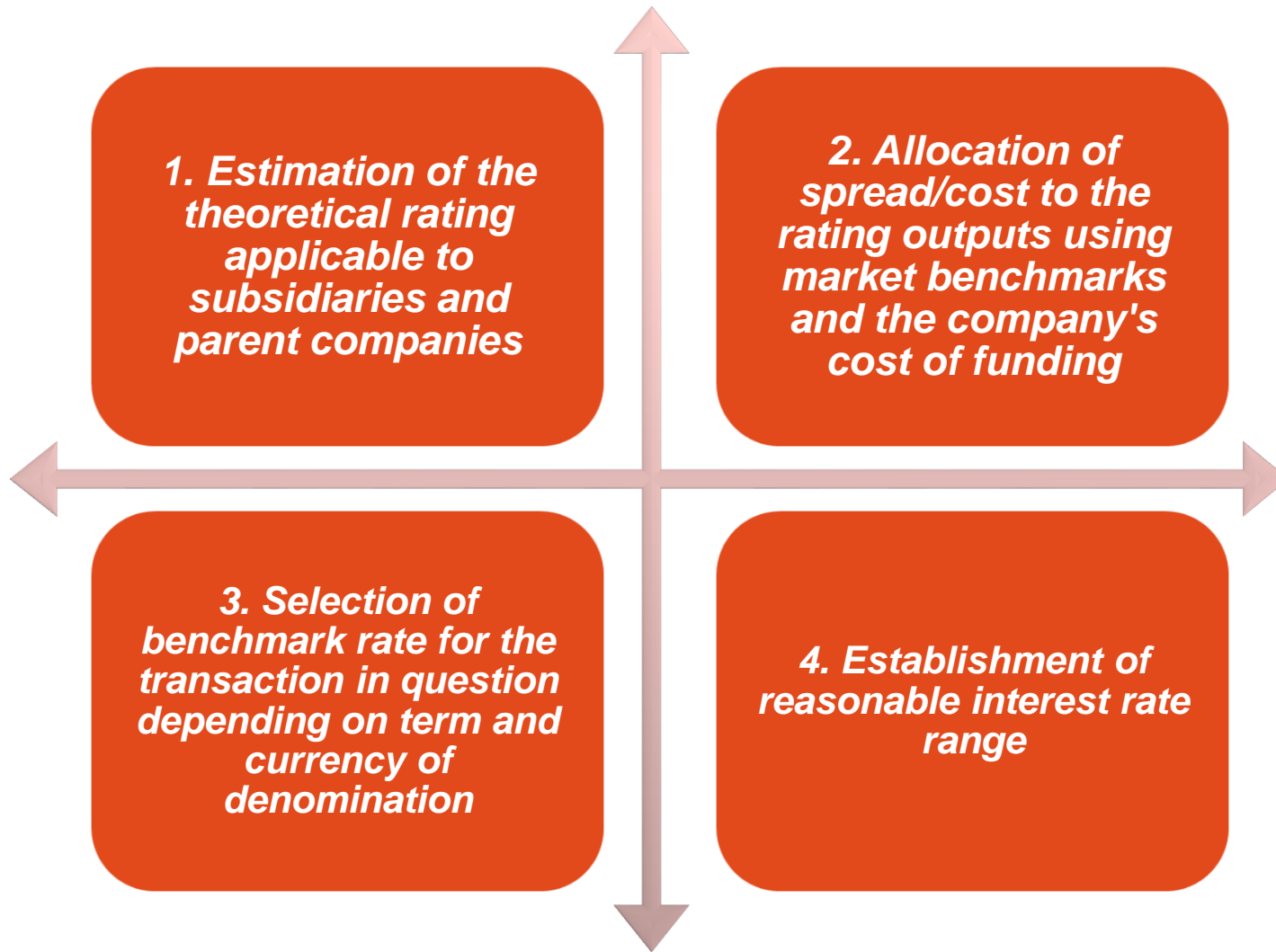
Statistical distribution: Afi ratings vs. actual public ratings



- The results of Afi model's are distributed very similarly to the companies' actual public ratings (for Spanish and international companies)
- The standard deviation between Afi's model and the public ratings is just 1.6 notches

3 | Afi's advisory approach

3. Afi's advisory approach



3. Afi's advisory approach

1. Estimation of the theoretical ratings applicable to subsidiaries receiving loans

- ❑ The credit rating of each subsidiary will depend on three parameters
 - Country risk
 - Operating risk
 - Financial risk
- ❑ AFI's work is articulated its own shadow rating model which uses the following inputs for analytical purposes, among others:
 - Financial health
 - Financial performance
 - Borrower country risk
 - Listed or not
 - Company age
- ❑ AFI then analyses whether or not it should fine-tune the results from its model to reflect the specific characteristics of the financing transaction under analysis.

2. Allocation of spread/cost to the rating outputs using market benchmarks and the company's cost of funding

- ❑ AFI selects the debt issues it considers comparable to the terms of the loans extended by the company in terms of:
 - Issuer rating
 - Term
 - Sector
 - Geographic market
- ❑ In theory, the company's universe of comparables is assumed to be the bonds issued by non-financial corporates with equivalent ratings in the same geographic markets as the borrowing companies
- ❑ AFI will assess and substantiate the need to adjust bond trading spreads as a function of the specific terms of the company's loans, such as:
 - Term
 - Currency
 - Fixed vs. floating rate

3. Afi's advisory approach

3. Selection of benchmark rate for the transaction in question depending on term and currency of denomination

- AFI will substantiate the most appropriate benchmark rate for the issue depending on term and currency of denomination:
 - Euribor curve
 - IRS curve in multiple currencies
 - Other benchmarks

4. Establishment of reasonable interest rate range

- AFI will provide the company with the finance cost applicable to each subsidiary, defined within a reasonable range, specifically providing two reference points:
 - Total financing cost (reference for fixed-rate financing)
 - Spread with respect to the benchmark curve (floating-rate financing)

4 | Contact details

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