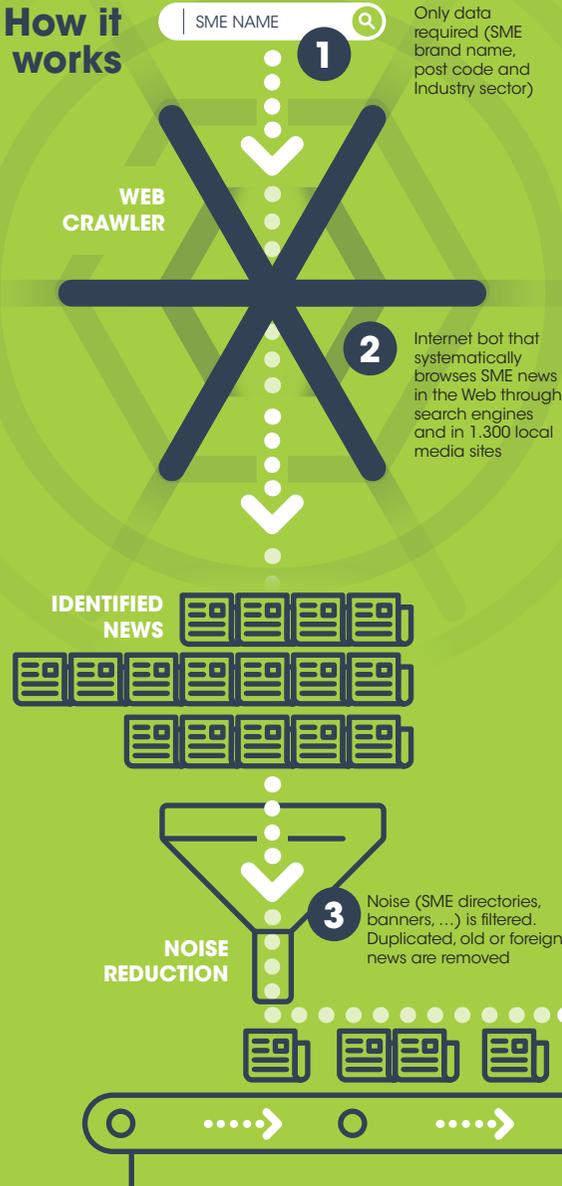


Artificial Intelligence applied to SME lending decisions



How it works



What is AROA?

A Machine Learning algorithm based on Natural Language Processing that extracts the SME reputational sentiment from on-line news.

Benefits/ solutions it provides



An increase in the predictive capability of existing models through the usage of non-traditional customer data.



In a context of lack of relevant data to build more robust SME creditworthiness scoring models.

How it can be used



Real time API.
SME by SME



Programmed batch process.
SME portfolios

Use cases



New risk predictor input to be included in **application and/or behaviour scores**.



New information to be included in the **monitoring process** as an early warning system for default and changes in credit worthiness.



SME **relevant information** provided to credit risk analysts.

Impacts



Greater efficiency by **reducing assessment time** in the underwriting process.



Lower default rate and the associated **positive impact on the portfolio cost of credit** (30%¹ increase of Gini index).



Savings in provisions for credit losses due to lower migrations from Stage 1 to Stage 2

SME AROA SCORING



An algorithm calculates a reputational scoring for each SME based on the classification results

Relevance Classifier
75%
PRECISION

Sentiment Analysis
92%
PRECISION

(1) Test carried out on a sample of 10,000 micro-SMEs (turnover <1ME) of one of the main Spanish banks. GINI increase of the admission score by 30% after the incorporation of the AROA "negativity index" of 200 days prior to the admission date.

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