Risk Management, Solvency, and Capital Requirements - leverage and provisioning

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A C A D E M Y

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ABOUT OUR BUSINESS AND COMPANY



AIS Artificial Intelligence Systems



Leading and pioneer company in Decision Support Systems in change processes applying Artificial Intelligence and Business Intelligence.



Innovation is one of the constants of AIS. Always at the forefront in the development of models and tools with advanced techniques on digital finance.



Collaborators of the Digital Cluster and members of the Advisory Council of the Observatory of Ethics of Artificial Intelligence of Catalonia.



Offices in Argentina, Chile, Colombia, Spain, Mexico and Portugal. Projects in more than 27 countries.

















CREDIT GUARANTEE SCHEMES EXPERTISE



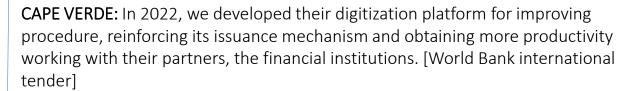


SPAIN: Client since 2002, we help to the Confederation of 18 CGS on Internal Rate Base modeling for evaluation of their guarantees, first as a core project for then adapting to the ones that need specifics.



MOROCCO: Client since 2012, we develop their IRB models for risk evaluation (individuals, SMES and startups) and a portfolio decision making platform for their simulations based on stress testing and pricing. [World Bank & AfdB international tender]







MENA: In 2022, we support EMGN members (Morocco, Tunisia, Algeria, Egypt, Lebanon and Jordan) to the assessment and recommendations for a framework for digitization. [GIZ international tender]













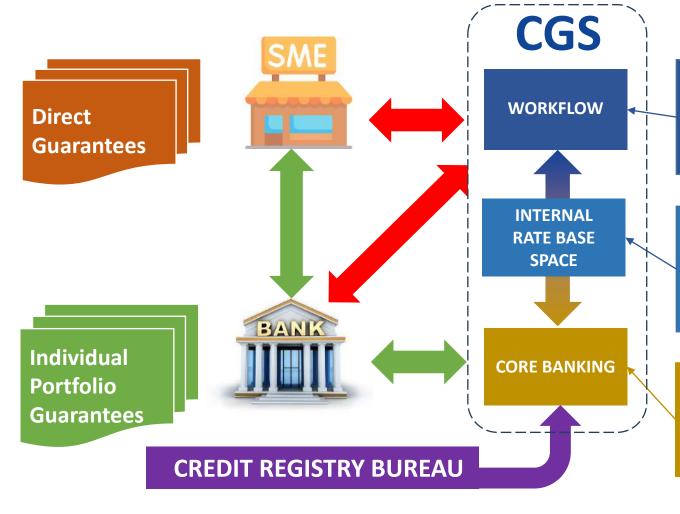






INTERNAL RATE BASE PLACE





Guarantee life cycle: Issuance – extension – renewal – amendments – cancelation and refund or expiration – re-activation – Rescheduling – settlement and liquidation – write-off

Rate the guarantees on credit risk and update the scores based on banks and CRB updates. The customer gets classified to a Risk Rating for leverage evaluation and piloting. monitoring production and the outstanding for looking the viability of the funds

SGC core banking receives the applicants proposals to be integrated as a beneficiaries and gets all the information need for issuance but also for follow-up and, if needed, the recovery by the FI.







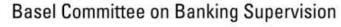








REGULATORY FRAMEWORK



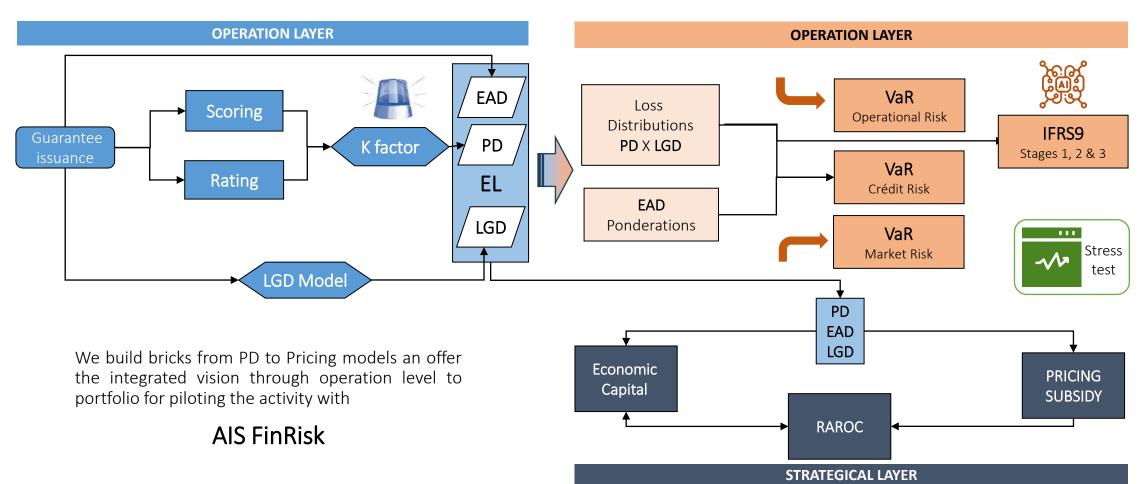






BANK FOR INTERNATIONAL SETTLEMENTS

Basel compliance (IRBA)













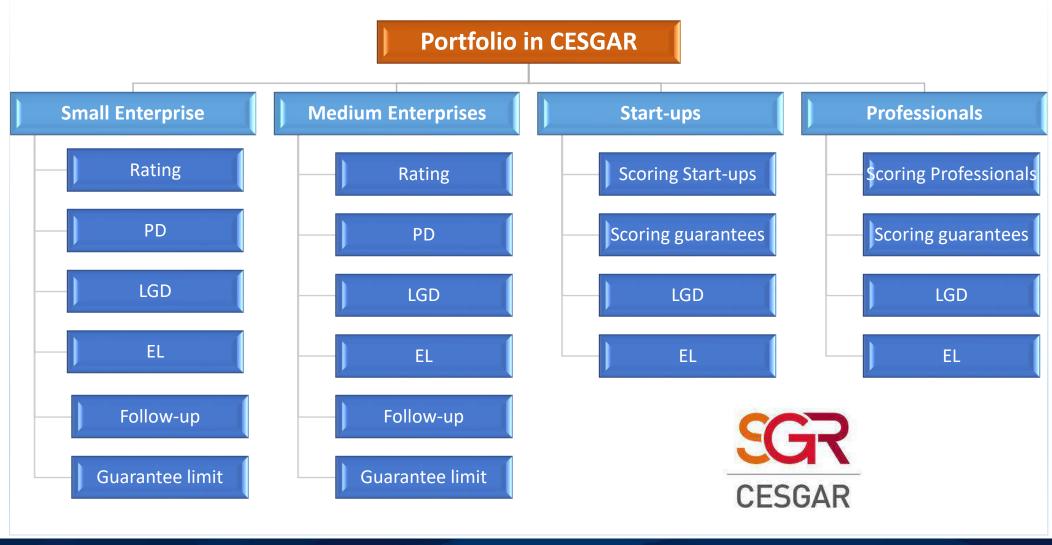




EXAMPLE OF RISK CARTOGRAPHY





















KEY PERFORMANCE & RISK INDICATORS





	Productivity A	Productivity B	Market share	Leverage K Factor	Default
REGION/COUNTRY (median)	Applications / Number of employees	Portfolio / Number of employees	Number of PME addressed / total of PME	Portfolio / Allocated equity "4" is the scope	Default/ Portfolio
Africa	8	0,1	0,3	1,7	17,1
Asia	33	0,6	2,7	3,2	1,9
Europe	17	6,2	0,9	3,8	2,9
MENA	22	2,3	2,2	4,4	3,8
Occidental hemisphere	164	3,4	3,4	3	2
Global	29	2,1	1,6	3,3	2,5
CCG for MSME	41	11,3	0,38	7,9	3,8

Source: Calice, P. (2016) Assessing Implementation of the Principles for Public Credit Guarantees for SMEs A Global Survey.













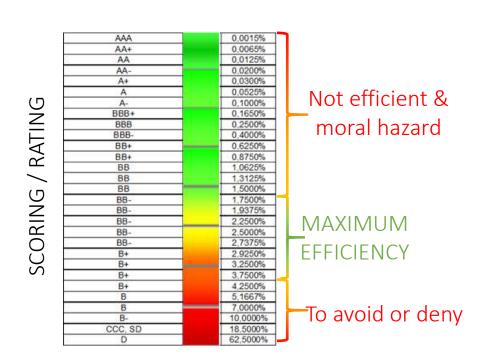


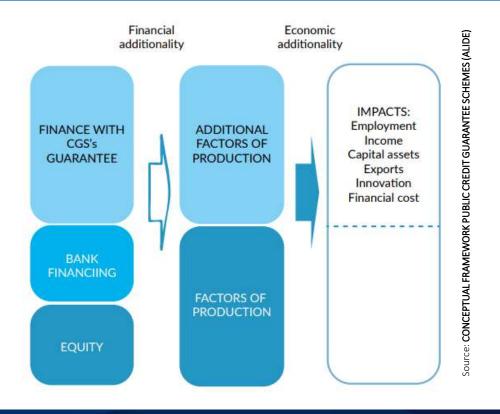
FINANCIAL AND ECONOMICAL ADDITIONALITY





The mission of the CGS is to work with operations that the financial system blocks, due to insufficiencies of the applicant, for improving the access conditions of SMEs. But, we should not support solvent clients or bankruptcy projects to maximize the impact and their additionality in order to better use limited resources of the Funds.



















AIS FINRISK COMPONENTS

From an individual operation to portfolio

consolidation, by product, segment, risk category, ...

RISK:

Credit, ALM, Liquidity

Interest Gaps, Treasury, others







P&L - B&S



Credit risk



Market risk



Operational risk



PD, LGD, EL, UL, IFRS9 Regulatory capital...



PRICING/K factor



Bank value, VAR...



Assets allocation





Rolling Forecast



Threshold / State subsidy

Restrictions, optimizing
criteria, compliance













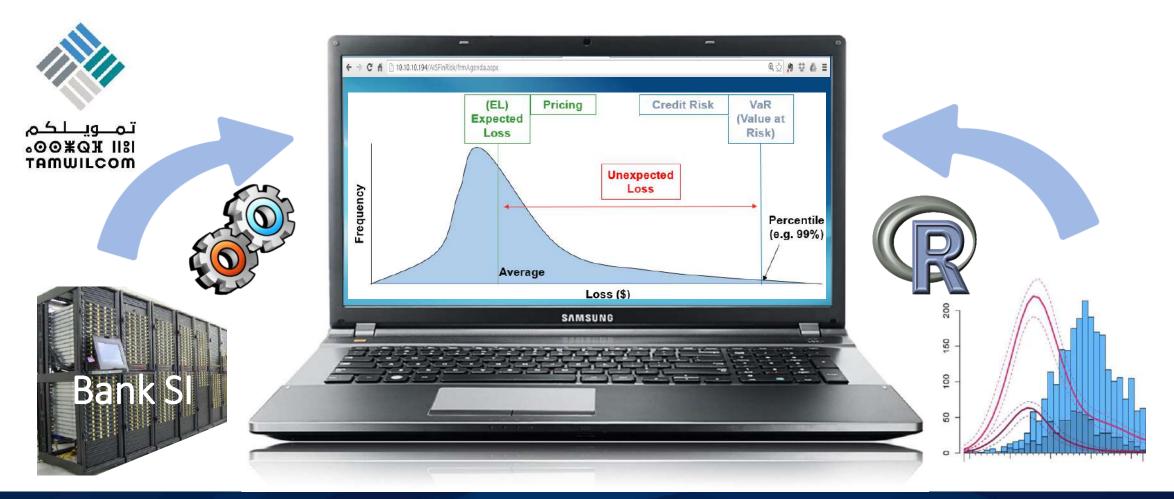






AIS FINRISK PLATFORM



















Thank you













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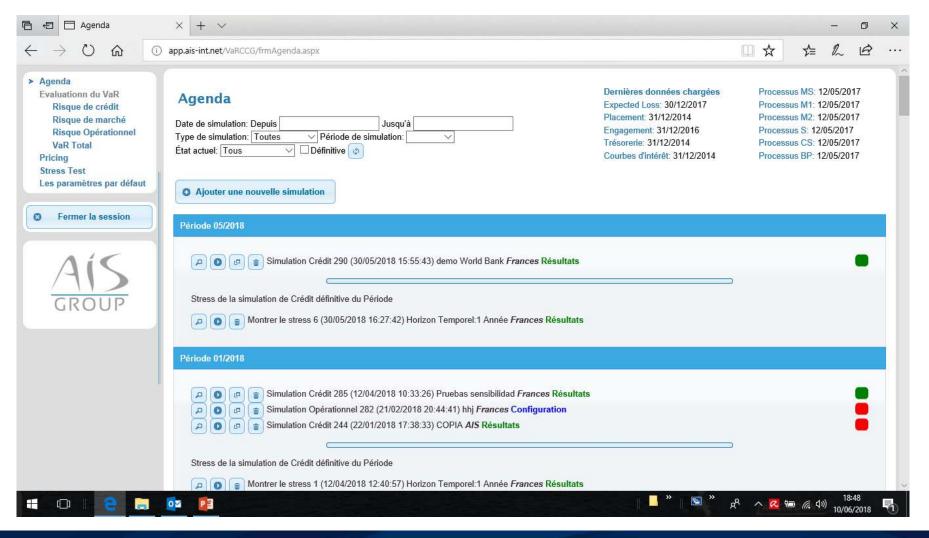




AGENDA AND SIMULATIONS PROPOSALS

















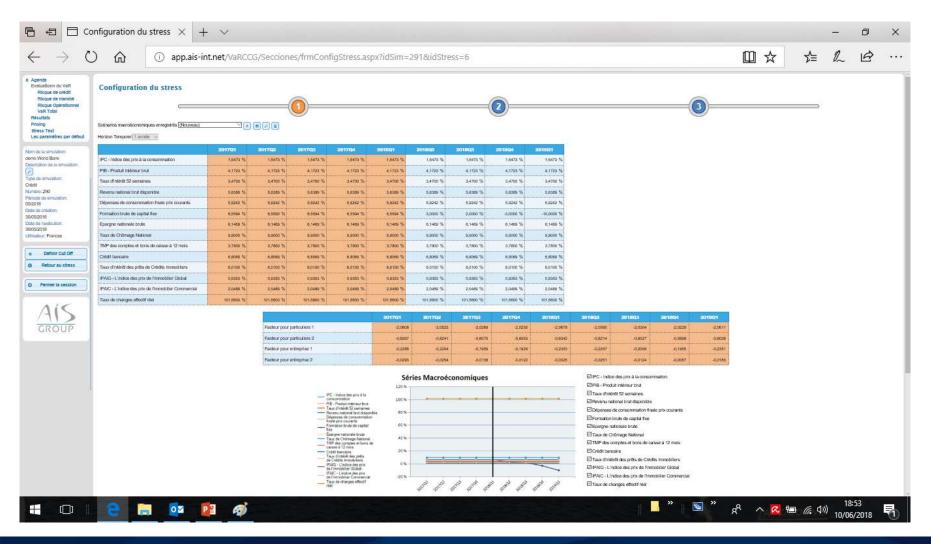




MACRO-ECONOMIC SCENARIO MANAGEMENT















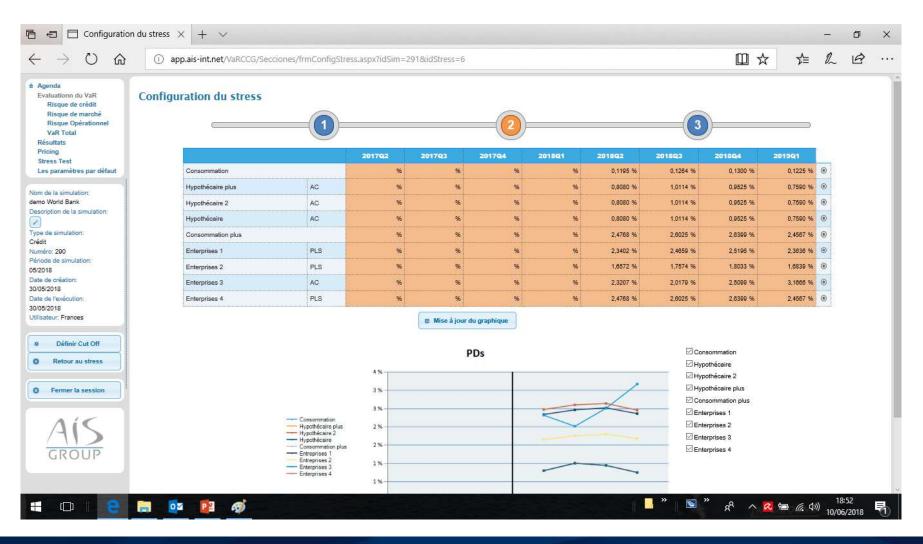






PROTFOLIO SCENARIO MANAGEMENT















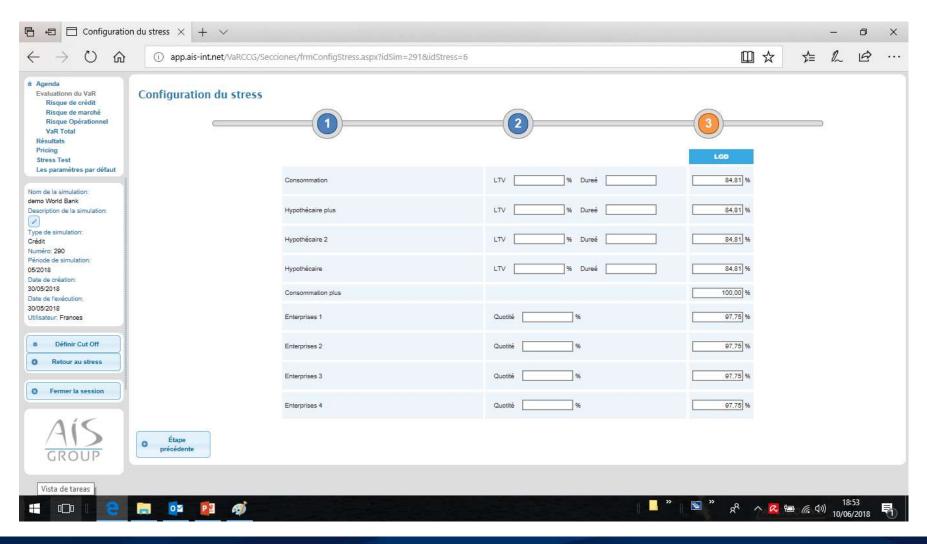




STRESS TEST CONFIGURATION





















STRESS TEST IMPACT ON BASE SCENARIO





