



# The magic of DATA collection and processing for CGS

# EMGN

EURO-MEDITERRANEAN GUARANTEE NETWORK



# AGENDA

1

INTRODUCTION

2

SYSTEMATIZATION AND HARMONIZATION OF  
INFORMATION FOR PROPER DATA MANAGEMENT

3

TABLE CONVERSATION AND WORKSHOP

1987

AIS Group creation

> 250

Clients

50+

Countries

10%

Innovation investment

Applied Intelligence on digital finance for:



Banks



Financial Institutions



Fintech



Cars and fleets



Real state



Insurances



Retail



Industry Smart Cities



Countries where we work



AIS Group branches

# 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 then develop a portfolio decision making platform for piloting their simulations based on stress testing and pricing.



تمويلكم  
TAMWILCOM



**IVORY COAST:** Client since 2019, we develop their pricing guarantee mechanism for Project Finance assessment on African's countries including their specific risks.

**CAP VERT:** Client started on 2022, we develop their digitization platform for improving their procedure, reinforce his mechanism and obtain more productivity working with their partners, the financial institutions.



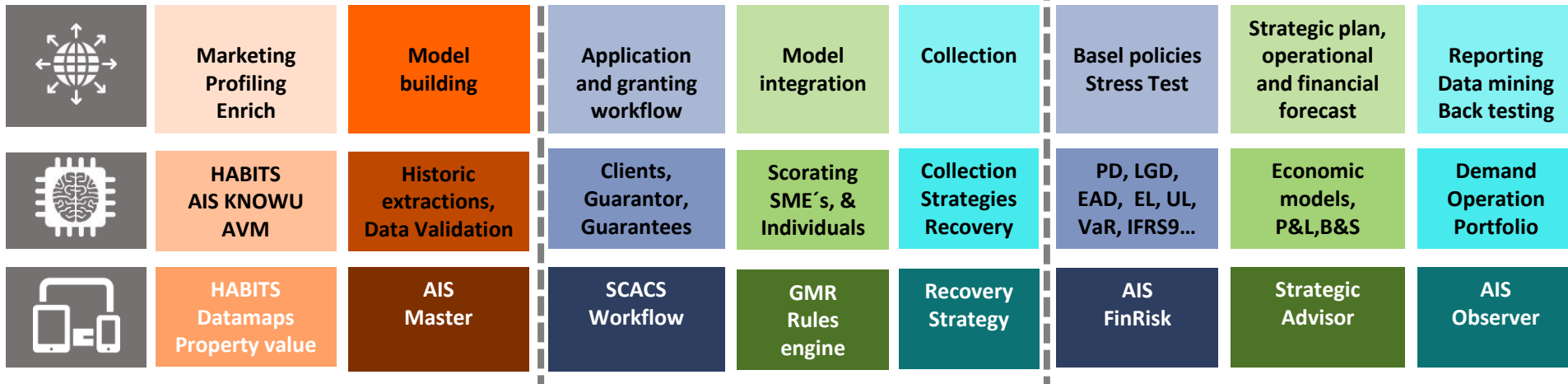


## Risk Management

### DATA – Analytics

### Operations layer

### Portfolio layer

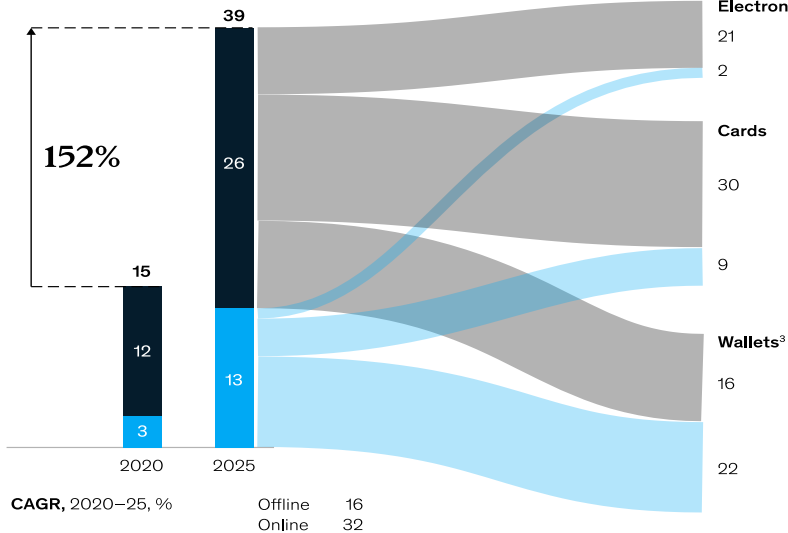


# DIGITALISATION GROWTH

Africa's electronic-payments market is expected to grow by 152 percent from 2020 to 2025.

Revenue from electronic payments for Africa,<sup>1</sup> 2020–25,<sup>2</sup> billion

Offline Online



<sup>1</sup>Includes mobile, cards, credit transfers, and direct debits.  
<sup>2</sup>At fixed US dollar exchange rates for the entire time series.  
<sup>3</sup>Online wallet transactions include all non-CICO (cash-in, cash-out) transactions.  
 Source: Central bank data; McKinsey Global Payments Map

Type of payment, 2025, %

### Electronic transfers

21

2

### Cards

30

9

### Wallets<sup>3</sup>

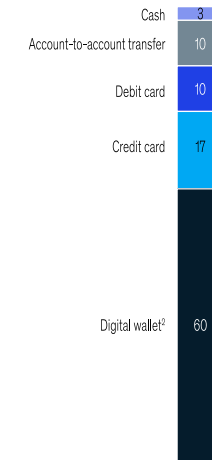
16

22

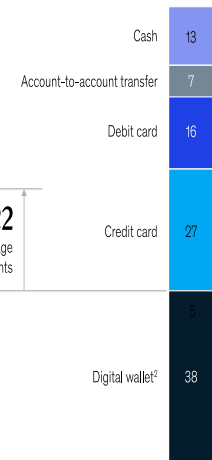
Middle East experts say digital wallets will be the most preferred mode of payments; expectations in Asia are more diverse.

Most preferred payment mode in next 5 years,<sup>1</sup> % of survey respondents

Middle East (n = 30)



Asia-Pacific (n = 56)



+22 percentage points

Note: Figures may not sum to 100%, because of rounding.  
<sup>1</sup>Question: In the next 5 years in your market, what would be the preferred modes of payment for consumers? Rank from most preferred mode to least preferred.  
<sup>2</sup>Including mobile money and pass-through wallets (Apple Pay, Samsung Pay, etc).  
 Source: McKinsey MEA payments survey and APAC industry survey

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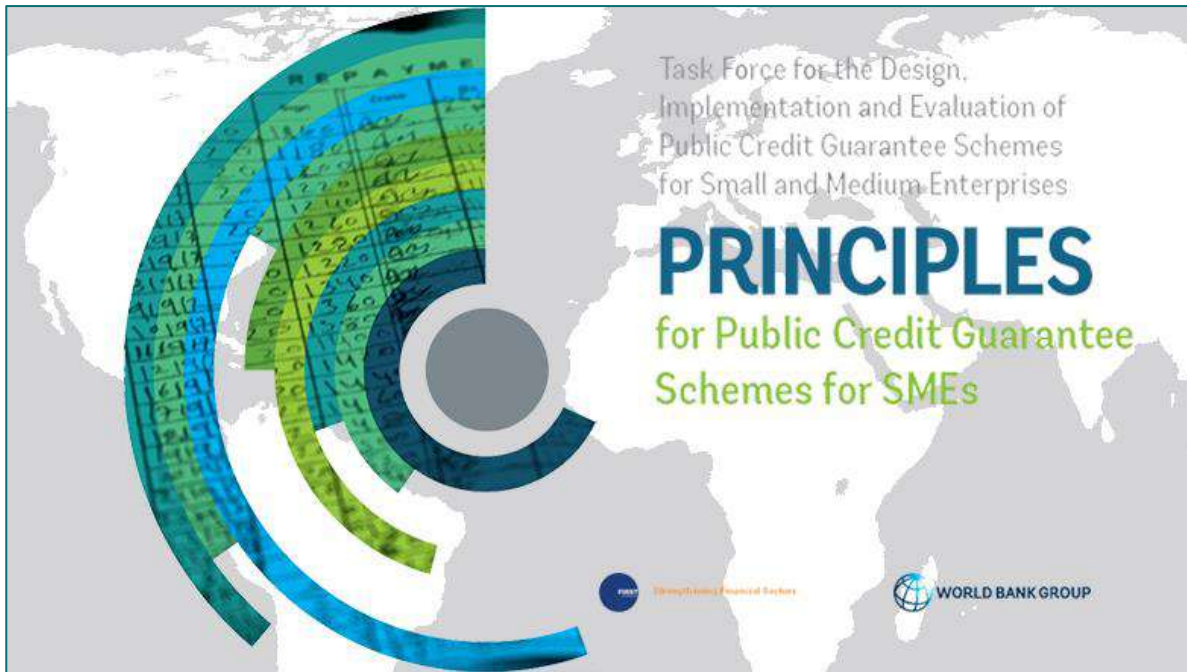
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TABLE CONVERSATION AND WORKSHOP

# WORLD BANK'S TASK FORCE

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[Principles for Public Credit Guarantee Schemes \(CGSs\) for SMEs \(worldbank.org\)](http://worldbank.org)



# 16 PRINCIPLES OF WORLD BANK'S TASK FORCE

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## Legal and regulatory framework

1. Establish the CGS as an independent legal entity.
2. Provide adequate funding and keep sources transparent.
3. Promote mixed ownership and treat minority shareholders fairly.
4. Supervise the CGS independently and effectively.

## Corporate governance and risk management

5. Clearly define the CGS mandate.
6. Set a sound corporate governance structure with an independent board of directors.
7. Design a sound internal control framework to safeguard the operational integrity.
8. Adopt an effective and comprehensive enterprise risk management framework.

## Operational framework

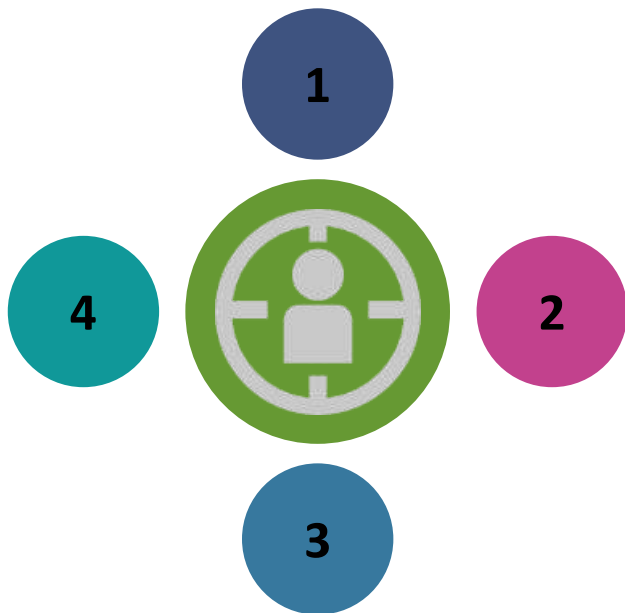
9. Clearly define eligibility and qualification criteria for SMEs, lenders, and credit instruments.
10. Ensure the guarantee delivery approach balances outreach, additionality, and financial sustainability.
11. Issue partial guarantees that comply with prudential regulation and provide capital relief to lenders.
12. Set a transparent and consistent risk-based pricing policy.
13. Design an efficient, clearly documented, and transparent claim management process.

## Monitoring and evaluation

14. Set rigorous financial reporting requirements and externally audit financial statements
15. Publicly disclose non-financial information periodically.
16. Systematically evaluate the CGS' performance and publicly disclose the findings.



# KNOW YOUR CLIENT



0

**KYC:**

Take advantage of all possible information you can get from the counterpart and the project.

1

**Integrate (Data mart)**

Extra existing data (CGS historic, sector, export, ...)

2

**Segmentation**

Classify correctly for right analysis and evaluation.

3

**Enrich**

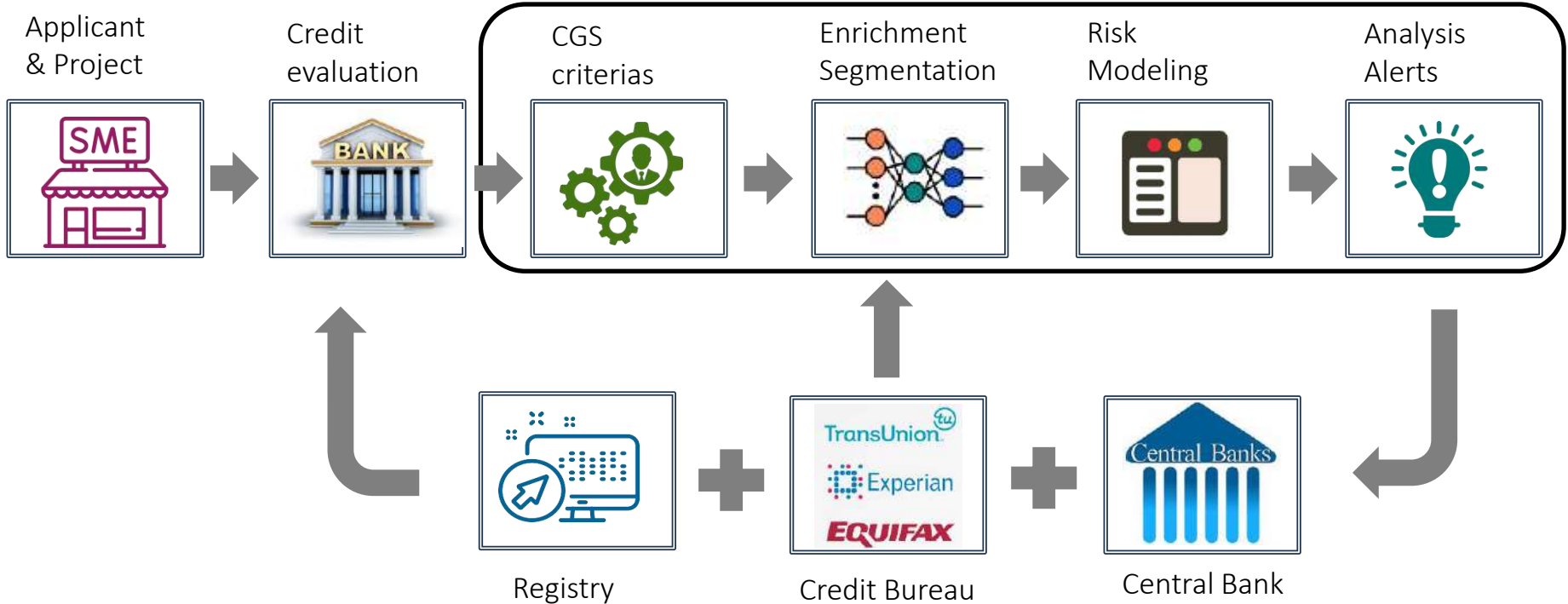
Available external data (CRB, Central Bank...).

4

**Update**

Refresh data about payments and new loans.

# DATA SOURCES



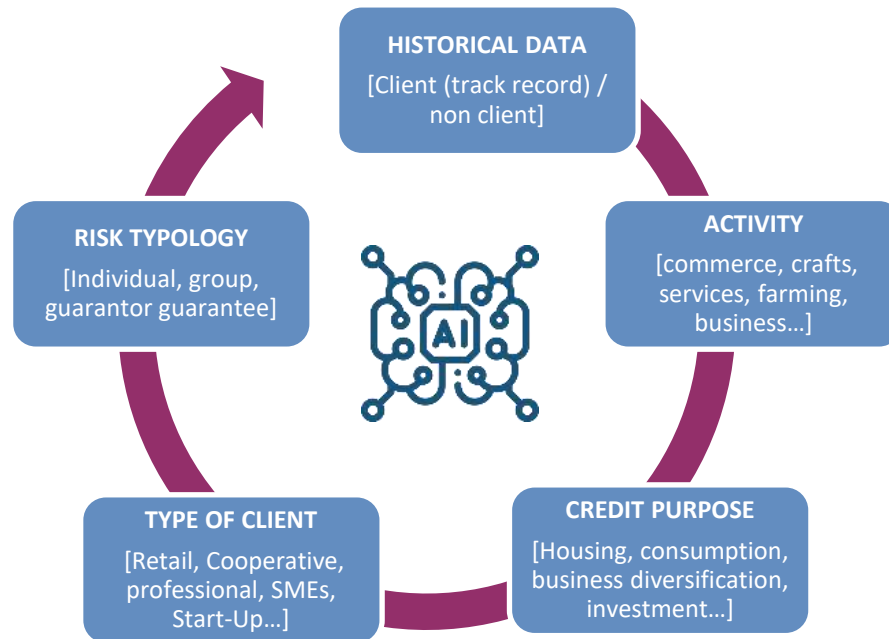
# NEW DATA AND ANALYSIS



Exploring existing and historical data, we list the different nature of available information that we could potentially integrate for evaluation and follow-up, if it shows enough risk discrimination.

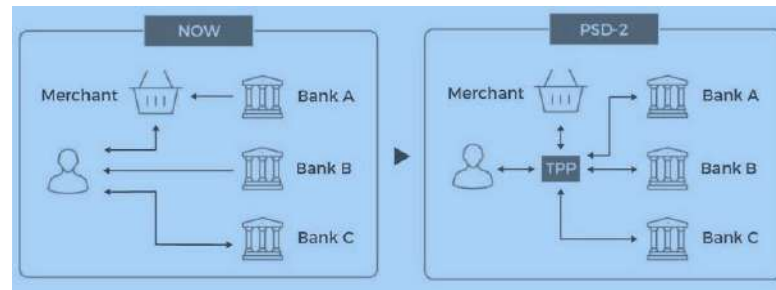
These data could be internal (from the entity or a Group of them) or external (credit bureau, registry, central bank, census...).

Then we develop the suitable applicant procedure and questionnaire for best risk appreciation and better evaluation purpose.

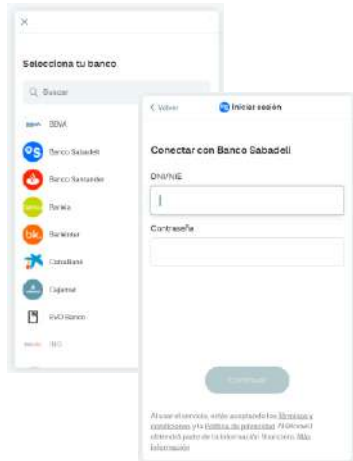


# NEW BUSINESS MODELS

Scraping data accounts under PSD2



1. Our experience shows that **STARTUPS** are open banking friendly.
2. We experimented better results: **fast and cheaper approach.**



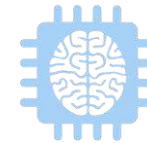
Scraping accounts  
53%

47%  
Manual data entry



Applicant choice

**AIS KnowU**



45% approval

55% deny



Conversion results

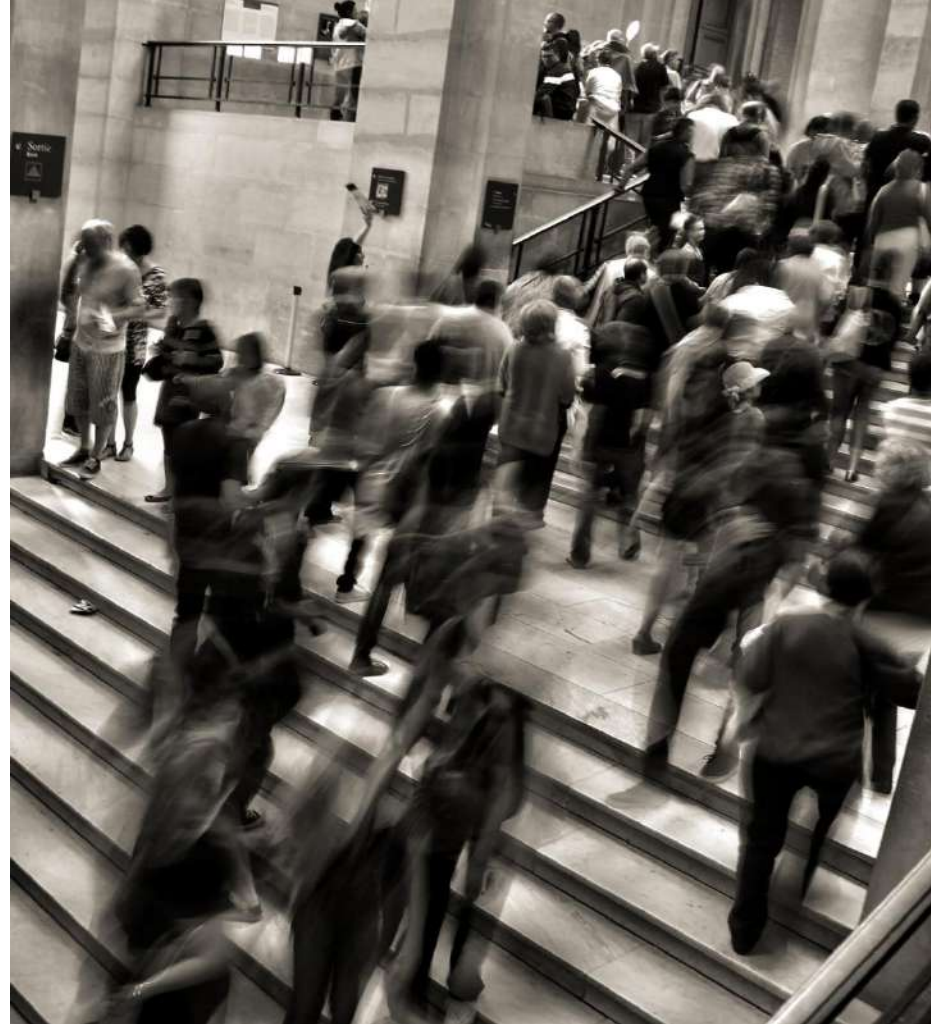
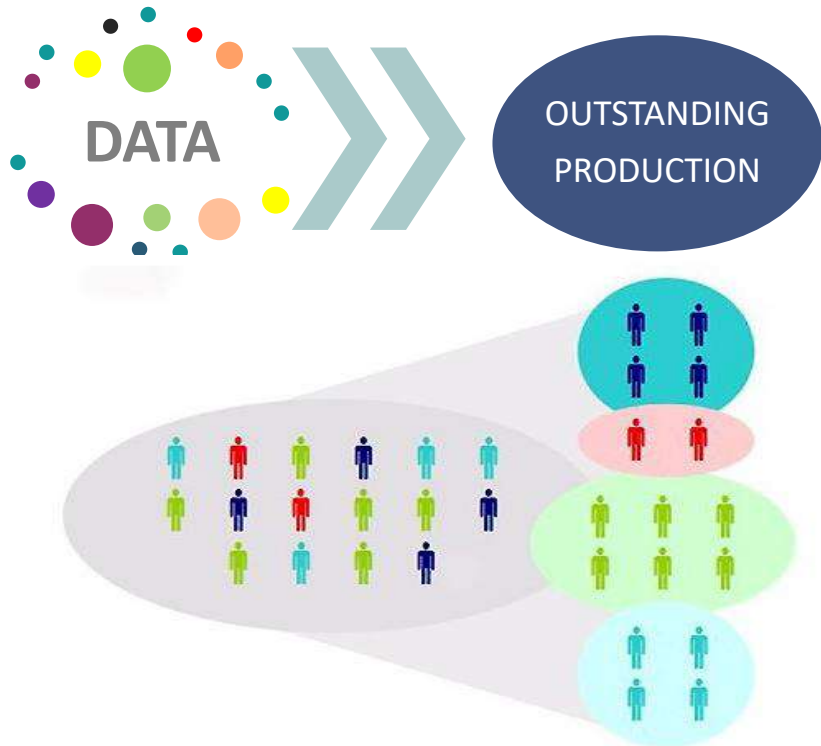


20% approval

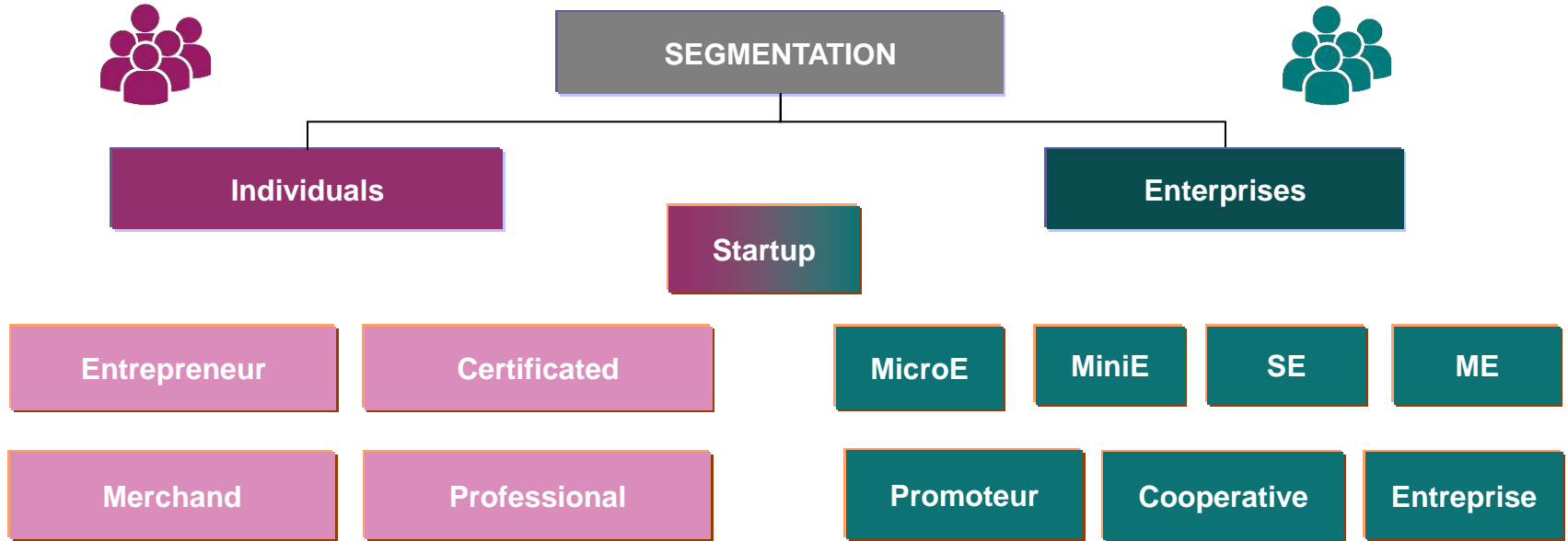
80% deny



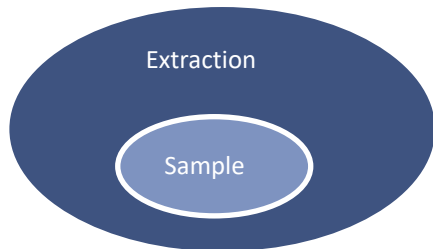
# HOMOGEOUS RISK GROUPS



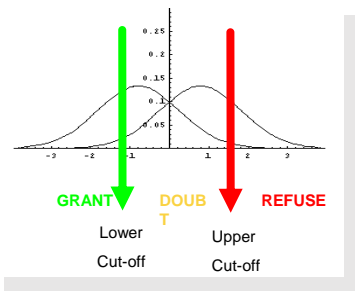
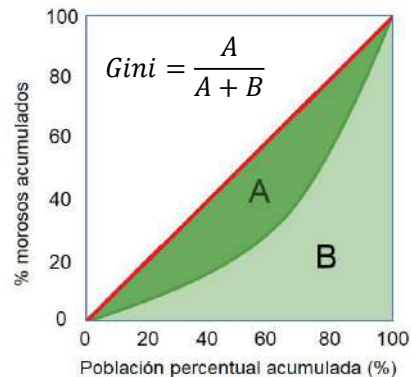
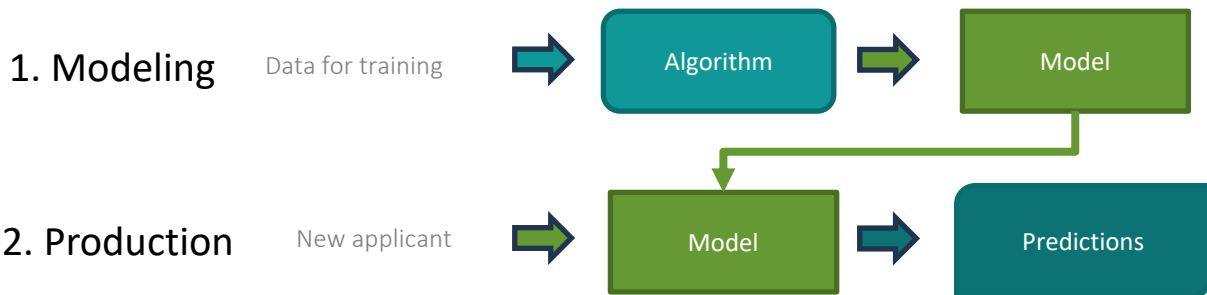
# ALL IS ABOUT SEGMENTATION



# MODELING



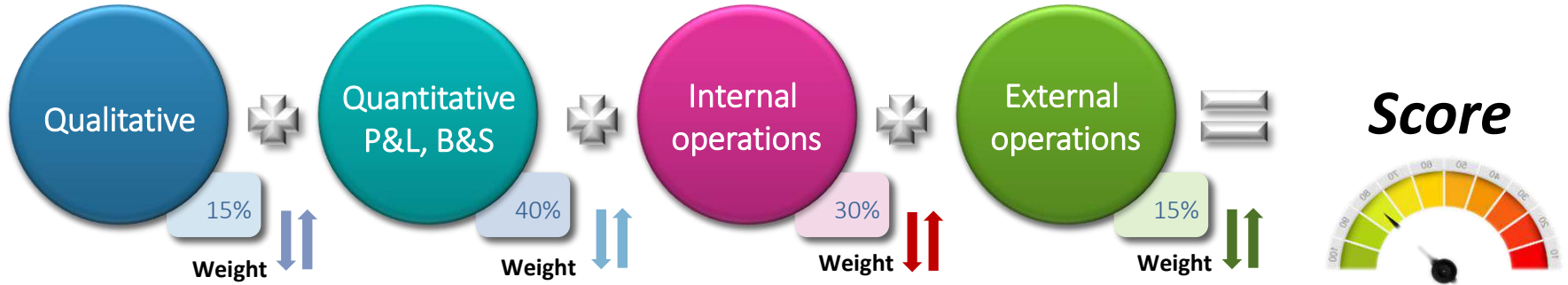
Two steps clearly different:





# SELECTION AND WEIGHT OF THE DATA (INPUTS)

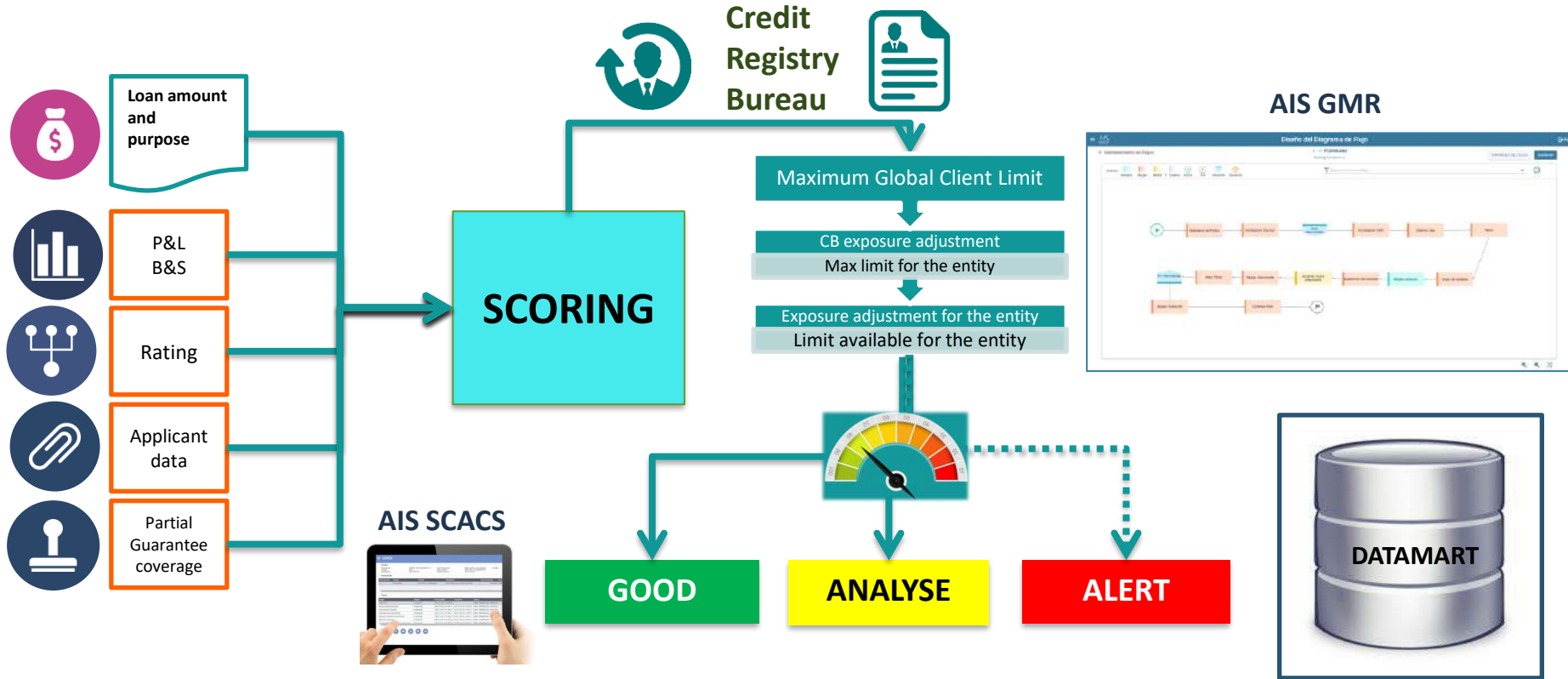
INPUTS	OUTPUTS
$x_1, x_2, \dots, x_n$	P Answer
$a_0 + b_1 * x_1 + b_2 * x_2 + \dots + b_n * x_n = P_j$	



**Probability Default =  $f$  ( Score )**

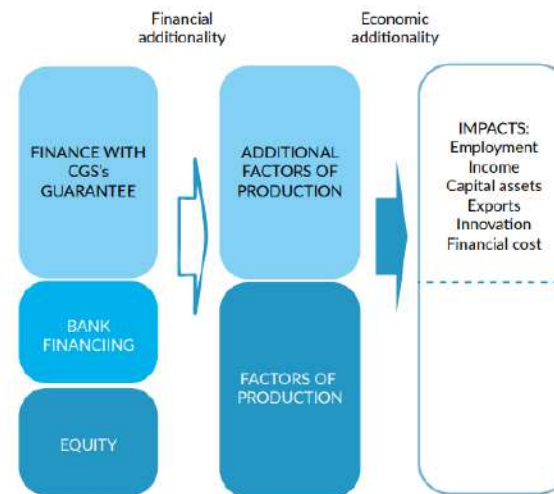


# OPERATIONAL DATA ORCHESTRATION AND DATAMART



# GUARANTEE OF ADDITIONALITY

The mission of the CSG is to grant guarantees for loans that the financial institutions blocks, due to a lack or insufficiencies of the applicant, and so improving the access conditions for SMEs. On the other hand, we don't have to support insolvent clients and unviable projects to maximize the impact and better use of limited resources.



Fuente: CONCEPTUAL FRAMEWORK PUBLIC CREDIT GUARANTEE SCHEMES (ALIDE)

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# Workshop

A close-up, slightly blurred photograph of a hand holding a pen over an open spiral notebook on a wooden desk. The scene is dimly lit, with a blueish tint. The word 'Workshop' is overlaid in large, bold, black text in the center of the image.

# CLIENT/BENEFICIARIES SEGMENTS

1) Describe the clients or beneficiaries that you address with your institution.

-> **Fill the boxes**



# PRODUCT AND CREDIT PURPOSE

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2) Describe the product or credit purpose that are eligible with your institution.

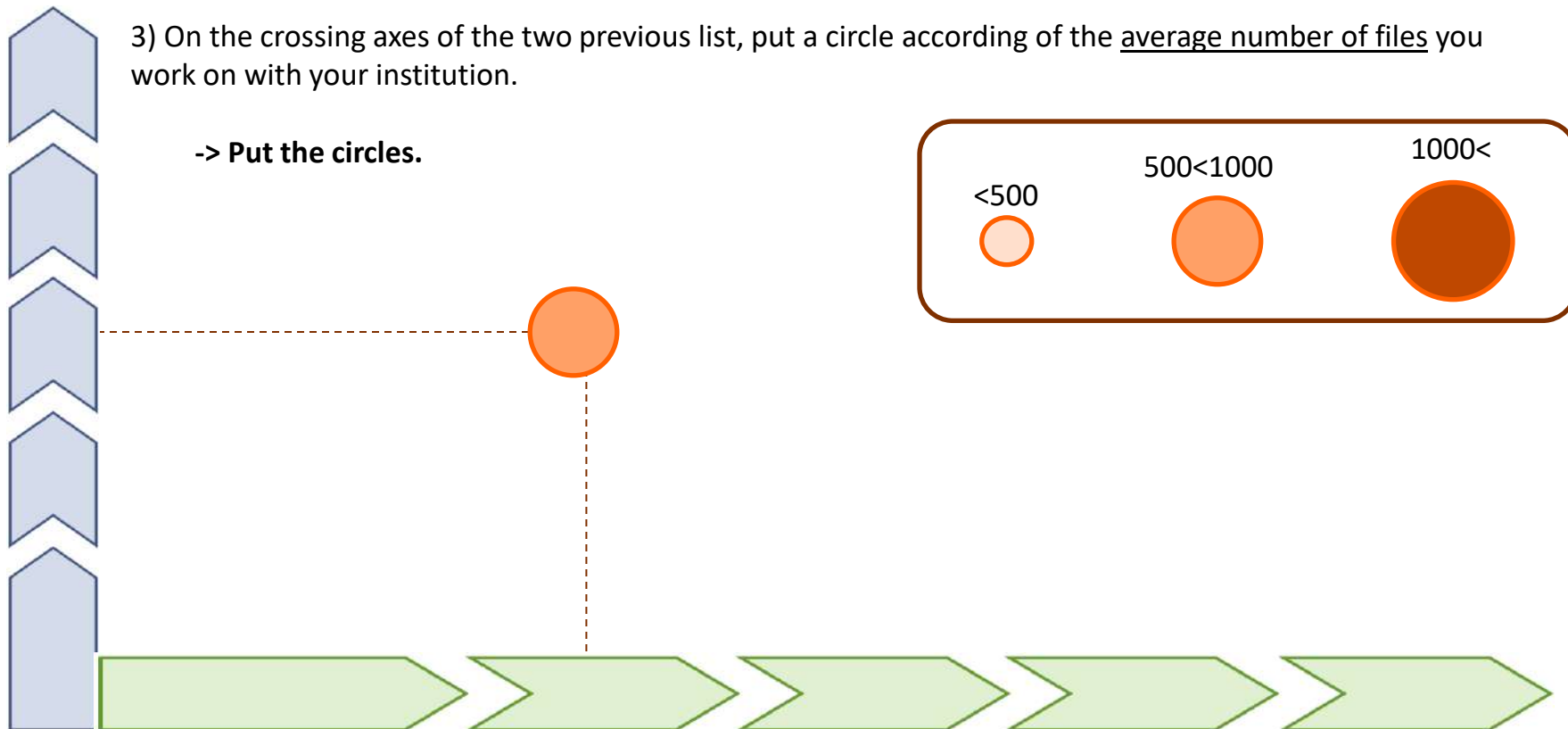
-> **Fill the boxes**



# RISK CARTOGRAPHY

3) On the crossing axes of the two previous list, put a circle according of the average number of files you work on with your institution.

-> Put the circles.





# CARTOGRAPHIE DES RISQUES

VOLUMES DATAS

MODÈLES

FGPME  
P.Morales (P&L)  
Moyenne  
Petite  
Très Petite

80% DAMANE EXPRESS

20% D. EXPRESS

SGG

FNG  
P. Physiques  
Moyenne (P&L)  
Petite  
Très Petite  
Micro

CREATION EXTENSION RESTRUCTURATION

EXPLOITATION

ACCESS

CREATION EXTENSION RESTRUCTURATION EXPLOITATION

Finalité

# AiS

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## GROUP

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