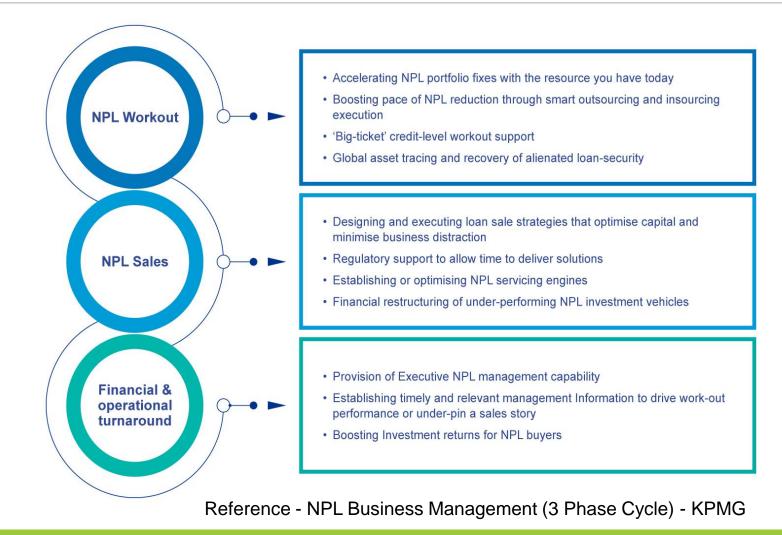


# NPL (Non-Performing Loans) Analytics Platform



## NPL Business Management







### NPL 1.0 - Risk Assessment of Loans

## Re-alignment of Portfolio GRC

 Empower recovery and collections functions with advanced portfolio governance

# Re-Valuation & Insights

 Tools to create NPL portfolio value - data capture, analysis and visualization techniques to create and refine user-friendly NPL portfolio information and insight

# Risk Analysis & Warning Models

 Early-warning and forwardlooking models draw on predictive analytics to improve credit portfolio quality and increase repayment rates

#### Recovery Monitoring

Recovery monitoring through various options

#### Reach Out System

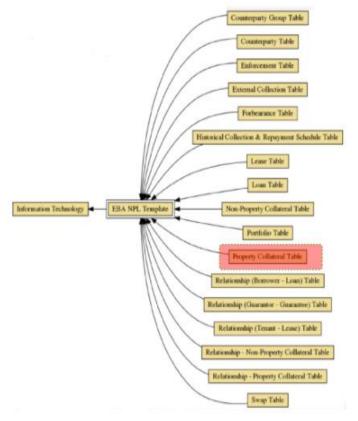
 Configurable contact process management along with communication channels- E-mail/ Phone/Letter aided by templates for standard notices





## NPL 1.0 - Risk Assessment of Loans

Table Name	Purpose
EBA NPL Counterparty Group Table	Data Fields relating to Counterparty Groups
EBA NPL Counterparty Table	Data Fields relating to Counterparties
EBA NPL Loan Table	Data Fields relating to Loans
EBA NPL Relationship (Borrower - Loan) Table	Data Fields connecting Loans to Counterparties
EBA NPL Lease Table	Data Fields relating to Leases
EBA NPL Swap Table	Data Fields relating to Swaps
EBA NPL Property Collateral Table	Data Fields relating to Property Collateral backing the Loans
EBA NPL Non-Property Collateral Table	Data Fields relating to Non-Property Collateral backing the Loans
EBA NPL Relationship - Property Collateral Table	Data Fields connecting Property Collateral to Loans
EBA NPL Relationship - Non-Property Collateral Table	Data Fields connecting Non-Property Collateral to Loans
EBA NPL Enforcement Table	Data Fields relating to Enforcement
EBA NPL External Collection Table	Data Fields relating to External Collection
EBA NPL Forbearance Table	Data Fields relating to Forbearance
EBA NPL Historical Collection & Repayment Schedule Table	Data Fields documenting historical collections
EBA NPL Relationship (Guarantor - Guarantee) Table	Data Fields connecting guarantees to counterparties
EBA NPL Relationship (Tenant - Lease) Table	Data Fields connecting leases to counterparties



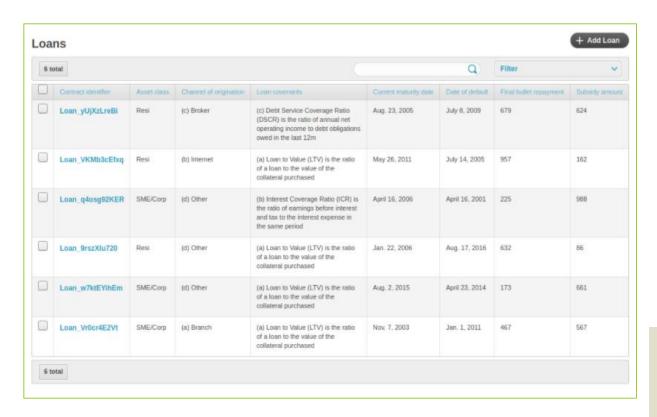


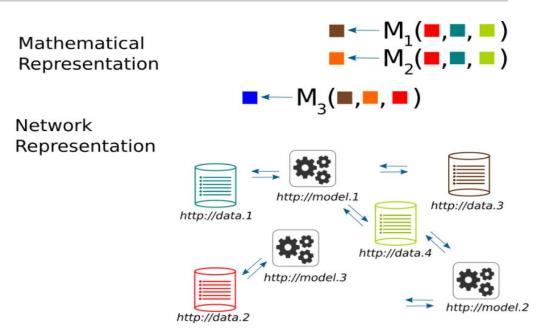






## NPL 1.0 - Mathematical Representation of Loans



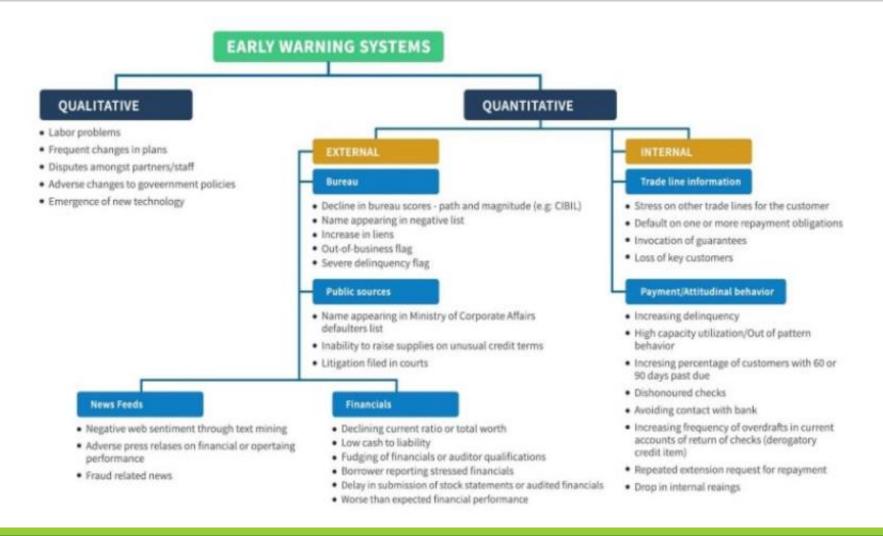


- NPL 1.0 is built on top of the Python Django framework
- NPL loan template recommendations of the EBA are implemented as distinct models in the database
- The UX uses built-in Django forms as those are rendered by the Grappelli skin
- The backend database is currently sqlite





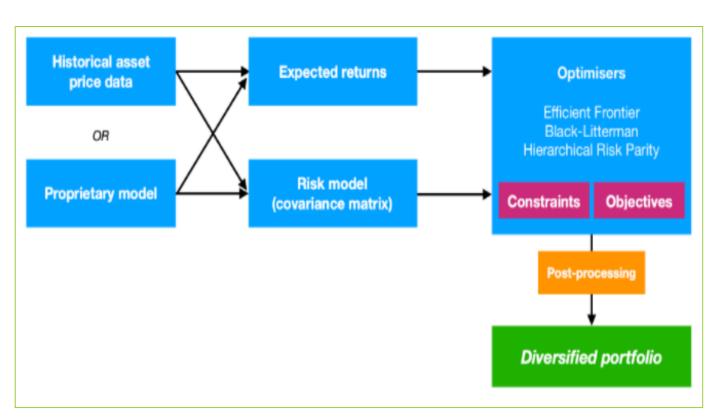
## NPL 1.0 - Early Warning Systems

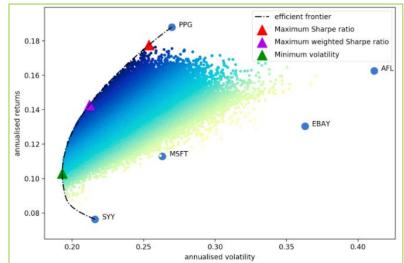


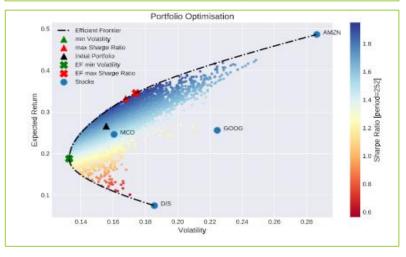




# NPMS 1.0 - NPL Portfolio Risks Analysis











## NPMS 1.0 - Technical Stack

Risk Graph (Loan)

IAN NET. Counterparty Group Table
BA NET. Counterparty Table
BA NET. Counterparty Table
BA NET. Counterparty
BA NET. Counterparty
BA NET. Benefit (September 1.00 or 1) Table
BA NET. Benefit (Benefit (September 1.00 or 1) Table
BA NET. Benefit (Benefit (Benefi

Risk Model + Scoring + Rules – Integrated Engine

Table Name

EBA NPL Counterparty Trable

EBA NPL Counterparty Table

EBA NPL Loan Table

EBA NPL Loan Table

EBA NPL Reationship (Borrower - Loan) Table

EBA NPL Leas Table

EBA NPL Passay Table

EBA NPL Property Collateral Table

EBA NPL Non-Property Collateral Table

EBA NPL Non-Property Collateral Table

EBA NPL Non-Property Collateral Table

EBA NPL Extension (Collection Table

EBA NPL Extension (Collection Table

EBA NPL Reationship Collection Table

EBA NPL Reationship Collection Table

EBA NPL Extension Collection Table

EBA NPL Reationship (Guarantor - Guarantee) Table

MDM Layer for NPL (Target System)

Insights

System1

System2

System3

System 4

System3







## **Thank You**

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