

Prometeia Model Risk Management Solution

Prometeia is recognized as Nr. 1 vendor in the the Model Governance space as the only solution with highest score in all core set of functionalities

Vendor	Model coverage	Governance	Data management	Model inventory	Dashboarding	Visualization
Appian	**	***	***	***	***	***
BCT Digital	***	****	***	***	***	***
CIMCON Software	**	***	**	***	**	***
Evalueserve	****	****	***	***	****	***
Genpact	***	****	***	***	***	***
IBM	***	****	***	****	***	****
MathWorks	****	***	***	****	***	****
MetricStream	***	****	***	***	****	***
Mitratech	***	****	***	***	***	***
Prometeia	****	***	***	***	***	****
PwC	***	***	***	***	****	***
RiskLogix	**	***	***	***	***	***
RSA Archer	**	***	***	***	***	***
SAS	***	****	***	***	***	***
TCS	****	****	***	***	***	***
Wipro	**	***	**	***	***	***
Wolters Kluwer	***	***	***	***	***	***
Yields.io	***	***	***	***	***	***

Key: **** = Best-in-class capabilities; *** = Advanced capabilities; ** = Meets industry requirements; * = Partial coverage/component capability

According to the 2023 edition of Chartis Research's RiskTech100®, Prometeia is the only company with the highest score in all six dimensions (Model Coverage, Governance, Data Management, Model Inventory, Dashboarding, Visualization).

Chartis
RiskTech Quadrant®
Category Leader
Model Risk Governance
Solutions, 2023

Chartis
RiskTech Quadrant®
Category Leader
Model Validation Solutions
(Credit), 2023







Quotes of the industry analyts about the advantaged of Prometeia solution in respect with main competitors



- "Part of a more comprehensive and scalable platform for model development / implementation/ validation"
- → "Easy change management and easy change requests' solving thanks to a zero code approach"
- "Immediate view if models status (heat map) at to prioritize the evolution/ remedy actions"
- "Model risk evaluation embedded in the solution: tiering, model management index, scorecards"
- "Support to model replicability and auditability"
- "Specific functionalities designed to cover Al models in particular for their internal validation"
- "Possibility to quick upgrading the solution in case of new regulatory requirements"



High level overview of the platform



Models are strategic elements in decision-making and regulatory compliance processes and the management of their life cycle has many elements of complexity

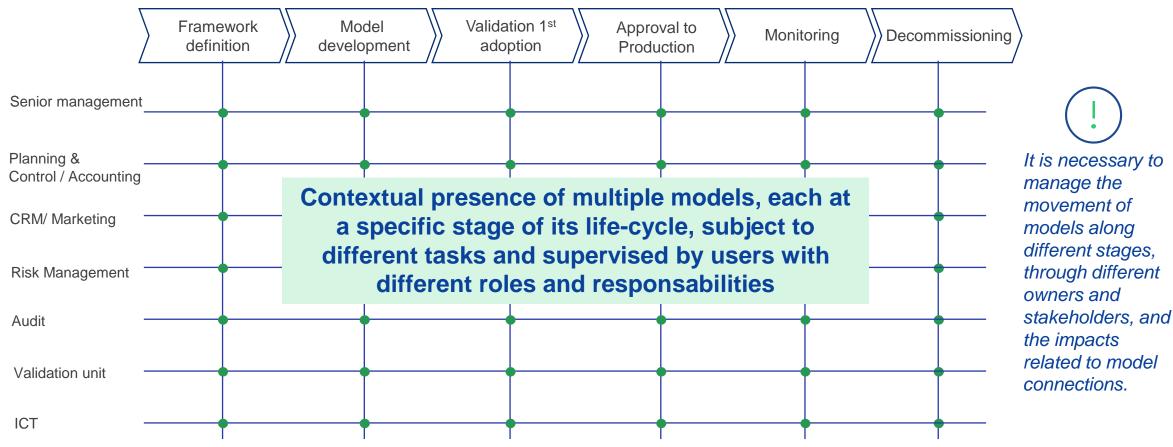
- Proliferation of models (specialised risk models, regulatory / accounting / management models,) at different stages of their life cycle with the need for specific actions
- Proliferation of stakeholders each with different prerogatives (differentiated according to life cycle phases) and subject to specific processes
- Increasing links among models requiring orchestration in the design and execution of the model pipeline
- Gradual shift from 'standard' methodologies to advanced analytics components based on machine learning techniques



Il rights reserve

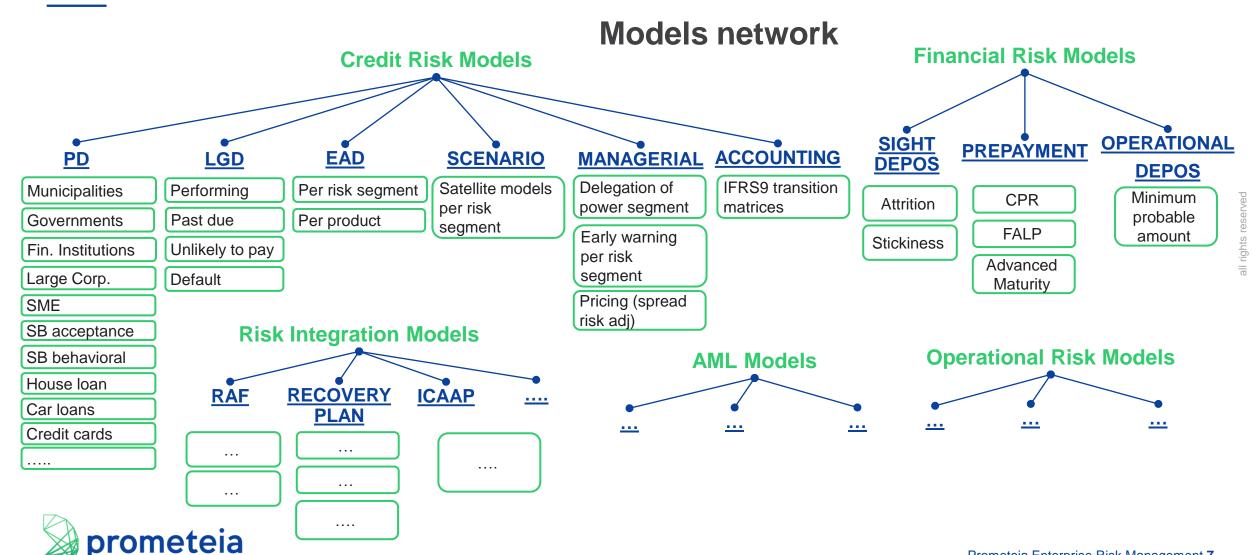
Each model has specific owners and stakeholders according to its current life-cycle stage

Model Life Cycle Phases



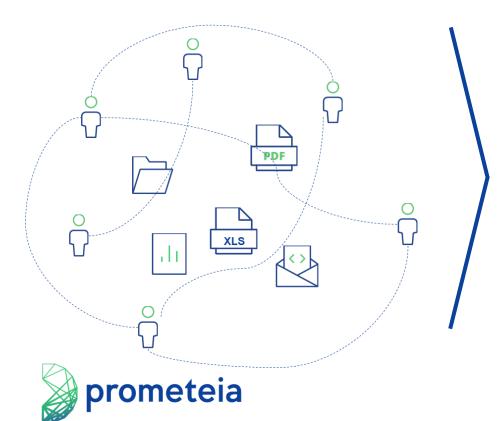


Model governance should take into consideration all models that are relevant for decision making and for regulatory purposes according to tiering criteria (e.g. impact on capita, P&L, ...)



Regulatory principles are increasingly pushing for the development of a Model Management framework to minimize model risk and reduce capital add-ons and Margins of Conservativism

Typically risk models are managed through 'point-to-point' communication channels among individual users and with tools that are exposed to operational risks and poor decision-making replicability. Regulatory requirements push forward a structured governance process

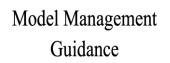








مصرف الإمارات العربية المتحدة المركزي .CENTRAL BANK OF THE U.A.E





مصرف الإمارات العربية المتحدة المركزي

CENTRAL BANK OF THE U.A.E.

Model Management Standards All regulatory requirements are supported by the Prometeia's solution that has been designed concistenly to the international best practices and guiding supervisory standards

all rights reserved

The Central Bank of UAE. followed the international practices in implementing the new Model Management standards published by the end of 2022

CEUAE Classification: Public

Model Management Standards

Central Bank of the UAE

Central Bank of the UAE

CENTRAL BANK OF THE U.A.E.

Model Management Standards

Version date: November 2022

The MMS and the MMG will be effective one day after their publication date.

Central Bank of the U.A.E.

...the Model Management Standards ("MMS") present modelling practices that **must be implemented** by banks in the UAE, if they decide to employ models for decision-making. These standards are based upon practices deemed appropriate within the financial industry **internationally with consideration of local circumstances**. The MMS therefore represent the **minimum requirements to be met within the UAE**.

Models are an integral part of decision-making within UAE banks for risk management, business decisions and accounting.

The first objective is to ensure that models employed by UAE banks meet quality standards to adequately support decision-making and reduce Model Risk. The second objective is to improve the homogeneity of model management across UAE banks. The third objective is to mitigate the risk of potential underestimation of provisions and capital across UAE banks.

Standards are based on international practices applied to local context

Extended to all type of models (accounting, regulatory, managerial)

Set quality standards, model risk reduction, improve homogeneity



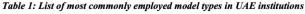
Il rights reserved

The UAE Model Management Standards apply to all types of models used by financial institutions to support decision-making and regulatory compliance processes

The MMS cover, amongst others, risk models, pricing models and valuation models. The scope includes, at a minimum, the non-exhaustive list in Table 1 overleaf, that represents the most commonly employed model types in UAE institutions.



- (i) Development,
- (ii) Pre-implementation validation,
- (iii) Implementation,
- (iv) Usage and monitoring,
- (v) Independent validation, and
- (vi) Recalibration, redevelopment or retirement, if deemed necessary.



Field	Model Type	
Credit risk	Rating and scorecard models	
	Score-to-PD models	
	LGD models	
Provision	PIT PD term structure models	
computation for credit risk	PIT LGD models	
	PIT EAD models	
	ECL models	
	Macro models	
Market risk	VaR and related models	
	Valuation models	
Counterparty	Exposure models	
risk	xVA models	
Capital management	Capital forecasting models	
	Concentration models	
	Funding cost models	
	Economic capital models	
AML	Fraud alert and other models	

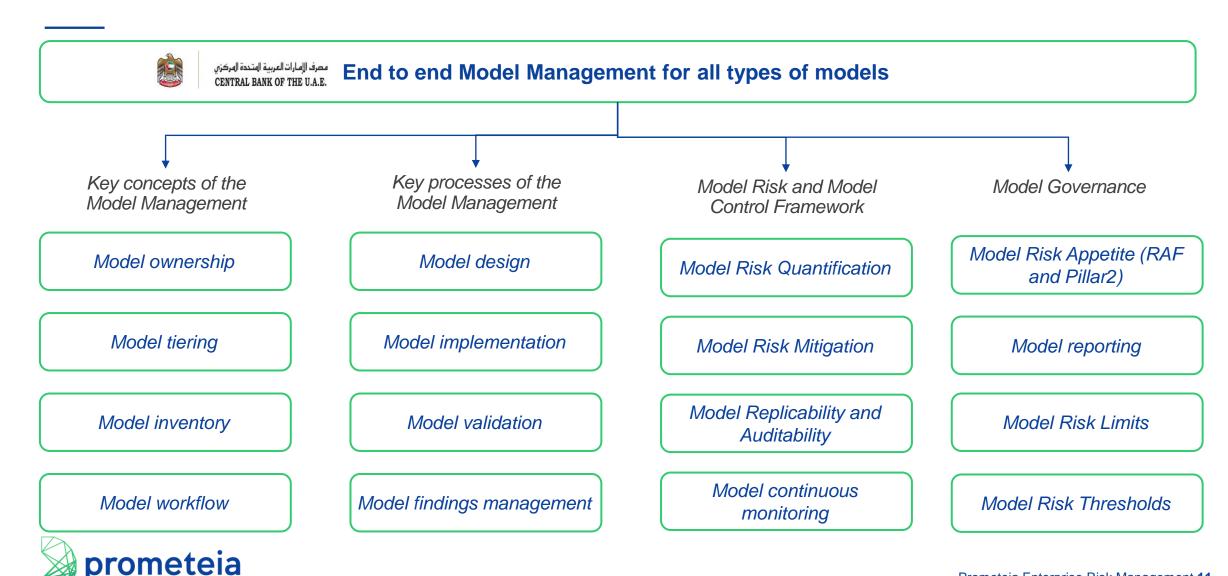
Field	Model Type		
Stress	Credit risk ST		
Testing (ST)	Market risk ST		
	Counterparty risk ST		
	Liquidity risk ST		
	Other types of ST models		
Operational	Ops risk scorecards		
risk	Ops risk capital models		
Pricing and	Derivative pricing models		
finance	Bond pricing models		
	RAROC models		
	NPV models		
Asset and	EVE models		
Liability	EAR and NII models		
Management	Liquidity risk models		
Business	Artificial Intelligence		
management	Budgeting, forecasting		
	Marketing models		



End to end Model Management for all types of models

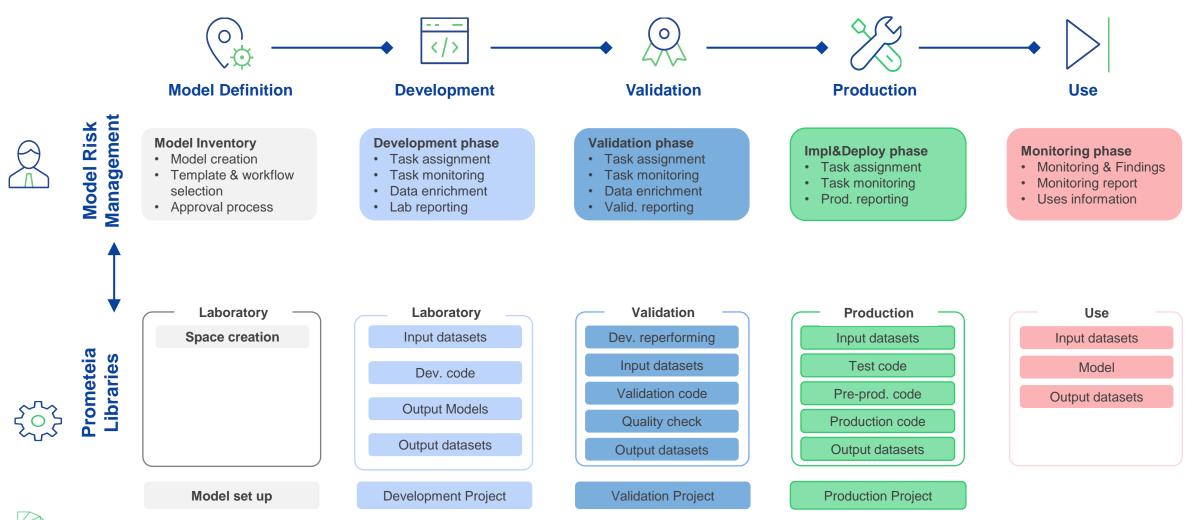


The UAE Model Management Standards introduce new concepts, processes and elements of Risk Governance that shall be properly implemented, monitored and communicated

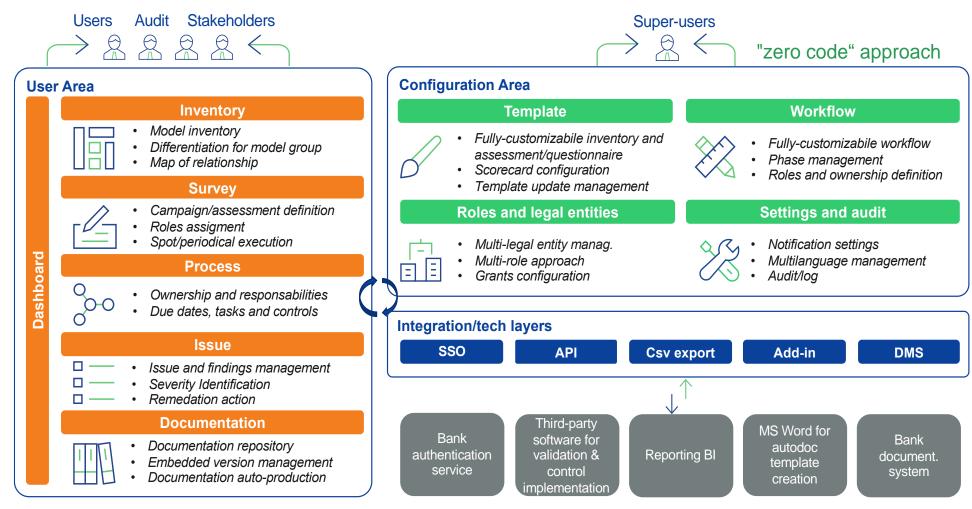


all rights reserved

The Prometeia solution has been designed to streamline the Model Management cycle, implement robust controls and ensure a governance consistent with regulatory principles



The Prometeia web-based application ensures the maximum flexibility to adapt to the Bank's process and information needs, thanks to user-friendly configuration and embedded engines





Contacts

Bologna

Piazza Trento e Trieste, 3 +39 051 6480911 info@prometeia.com

London

Dashwood House, 69 Old Broad Street EC2M 1QS +44 (0) 207 786 3525 uk@prometeia.com

Cairo

Smart Village - Concordia Building, B2111 Km 28 Cairo Alex Desert Road 6 of October City, Giza info@prometeia.com

Milan

Via Brera, 18 Viale Monza, 259 +39 02 80505845 info@prometeia.com

Istanbul

River Plaza, Kat 19
Büyükdere Caddesi Bahar Sokak
No. 13, 34394
| Levent | Istanbul | Turkey
+ 90 212 709 02 80 - 81 - 82
turkey@prometeia.com

Vienna

Wiedner Gürtel, 13 – 1100 info@prometeia.com

Rome

Viale Regina Margherita, 279 info@prometeia.com

Zurich

Technoparkstrasse, 1 – 8005 switzerland@prometeia.com







www.prometeia.com

