# Come navigare la crisi nel continuo?

Ridurre il time-to-market attraverso un sistema di risk modeling e decisioning intregrato ed innovativo

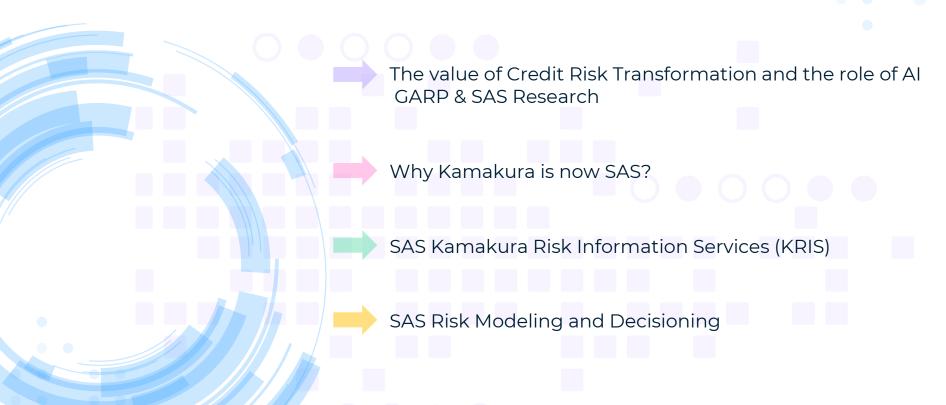
Supervision, Risks & Profitability 6 giugno 2023 – ABIEventi

**Alida Popescu** – Customer Advisory Sr Manager Risk Management SAS



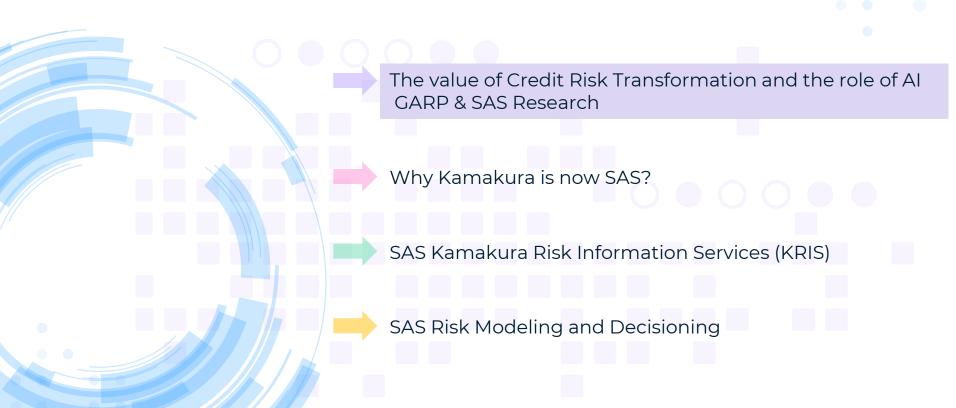


#### **Agenda**



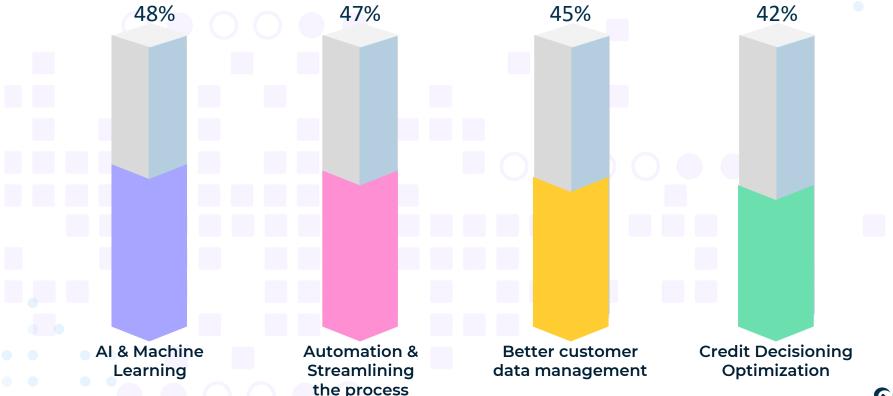


#### **Agenda**





## What are the top Credit Risk Transformation challenges?





## The value of Credit Risk Transformation and the role of Al





68%

3

Credit

Decisioning

optimization

IT infrastructure modernization

53%

Better data management

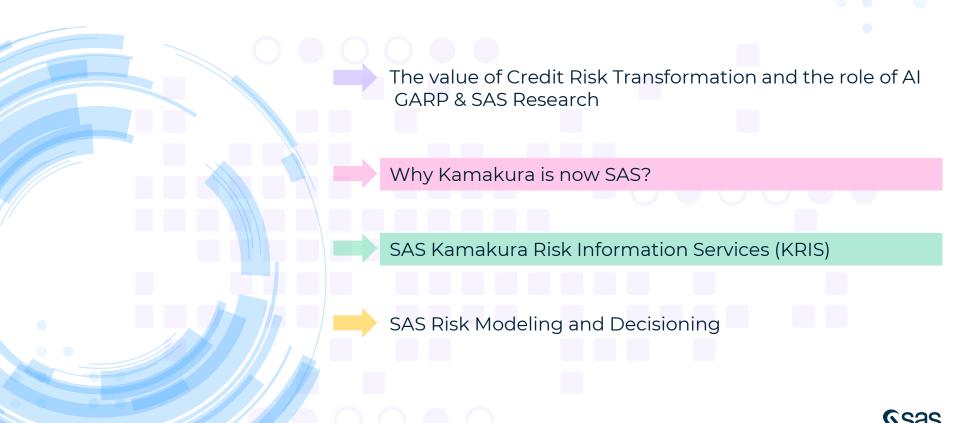


# HOW URGENT IS CRT TO INDUSTRY PROFESSIONALS?

Four out of five place medium-to-high priority on CRT vs. other organizational transformations



#### **Agenda**



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### Kamakura acquisition





#### **Thought Leaders**

Donald Van Deventer, Robert Jarrow and Martin Zorn are now part of SAS team leading the research and development of quantitatve modeling



#### **Innovation**

The acquisition of Kamakura testifies SAS's ongoing commitment to functional and technological innovation, in line with market needs

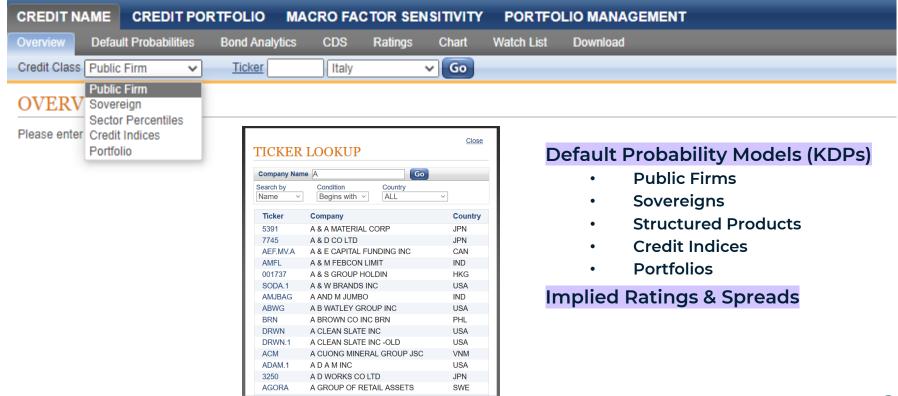


#### Kamakura Risk Information Services (KRIS)

Industry leading quantitative credit risk measures such as default probabilities, implied spreads and implied ratings for corporate and sovereign counterparties – updated daily



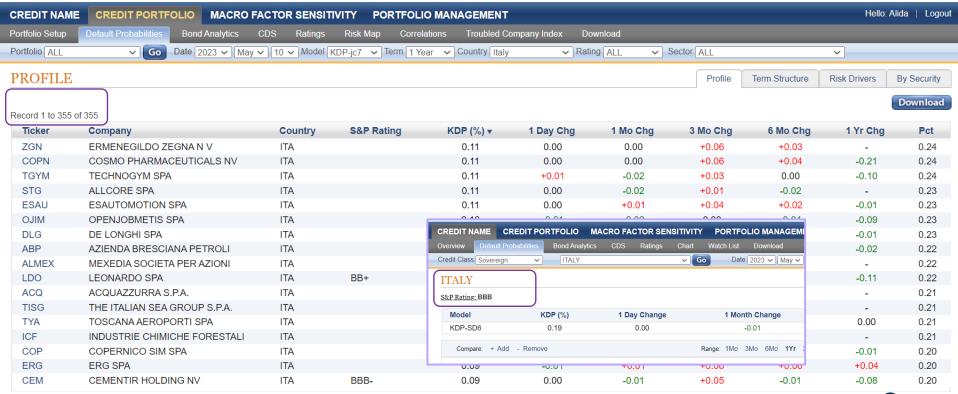




#### **SAS Public Firm Model**



Kamakura | Contact



## **Sovereign Ratings**



Kamakura | Contact





#### **PD Term Structure**





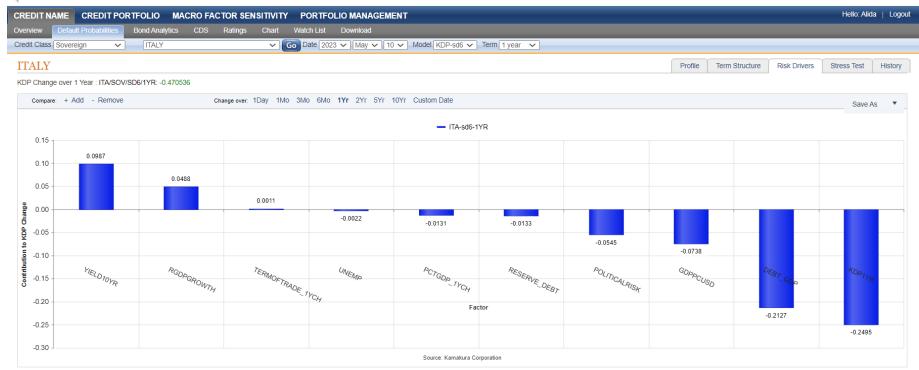


Kamakura I Contact

#### **Risk Drivers - Contribution to KDP Change**



Kamakura | Contact





## **Stress Testing and What-if Capabilities**



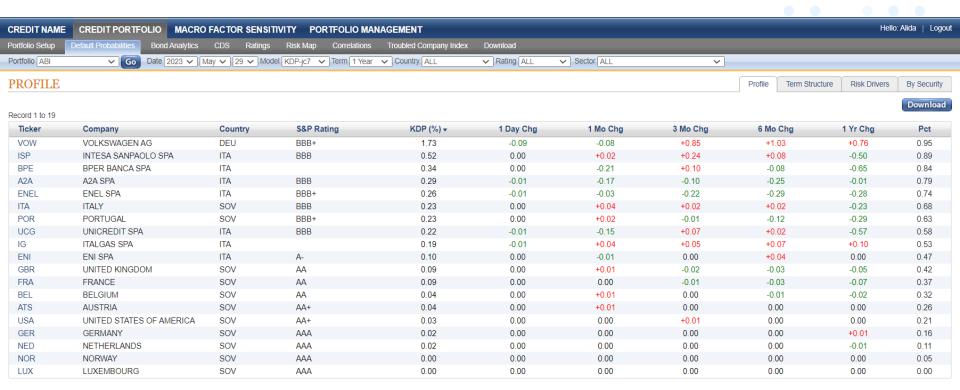
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CREDIT NAME   CREDIT PORTFOLIO   MA	ACRO FACTOR SENSITIVI	TY PORTFOLIO MANAGEME	NT				Hello: Alida   Logout
Overview Default Probabilities Bond Analytics	CDS Ratings Chart	Watch List Download					
Credit Class Sovereign VITALY	~	Go Date 2023 V May V	10 V Model KDP	-sd6 ✔			
ITALY					Profile	Term Structure Risk Drivers	Stress Test History
KDP Value	1 Month	3 Month	6 Month	1 year	2 Year	3 Year	5 year
Current	0.07	0.16	0.17	0.19	0.21	0.19	0.18
User Defined	0.08	0.18	0.19	0.21	0.23	0.21	0.19
Difference	0.01	0.01	0.02	0.02	0.02	0.02	0.01
Country Specific		Actual Values	User Input	Country Specific		Actual Values	User Input
Debt/GDP		1.268673	1.268673	10 year Treasury Yield		9.959582	9.959582
Reserves/Debt		0.085071	0.085071	FX Rate to USD - 1 year change		0	0
Real GDP Growth (%)		1.557464	0.557464	Unemployment Rate		8.3	10.3
Percent of global GDP - 1 year change		-0.016446	-0.016446	Median PD of Banking Sector		0.76615	0.76615
GDP per capita (USD)		35657.5	35657.5	Political Risk level		17.5	17.5
Local/Foreign Currency Debt		765.6605	765.6605	IMF Loans/Reserves		0	0
Terms of Trade - 1 year change		-0.284574	-0.284574	Loan from IBRD in past 5 years		No	No 🗸





#### **Credit Portfolio Setup**



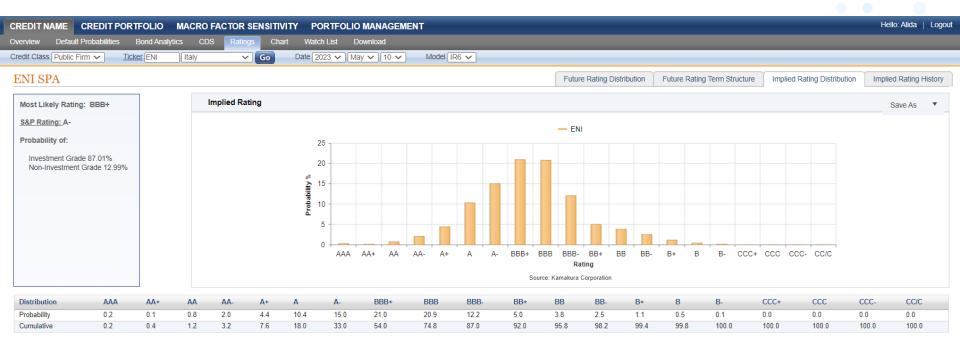


#### **Implied Ratings**



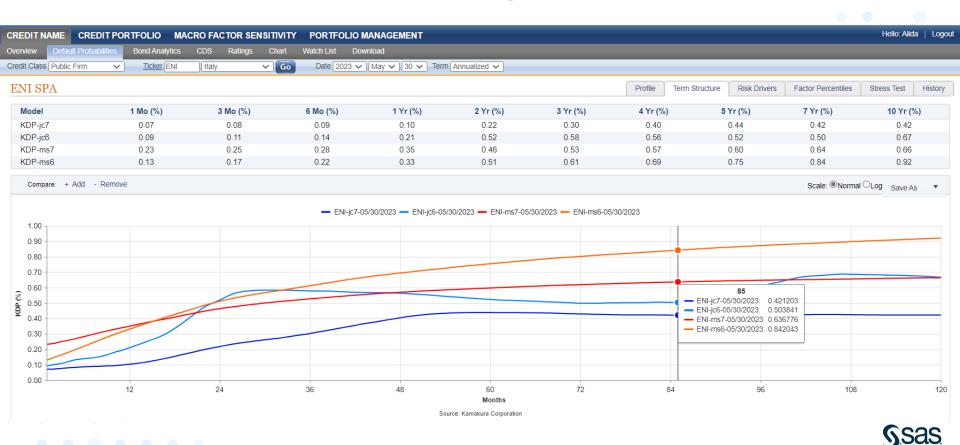


#### **Implied Rating Distribution**





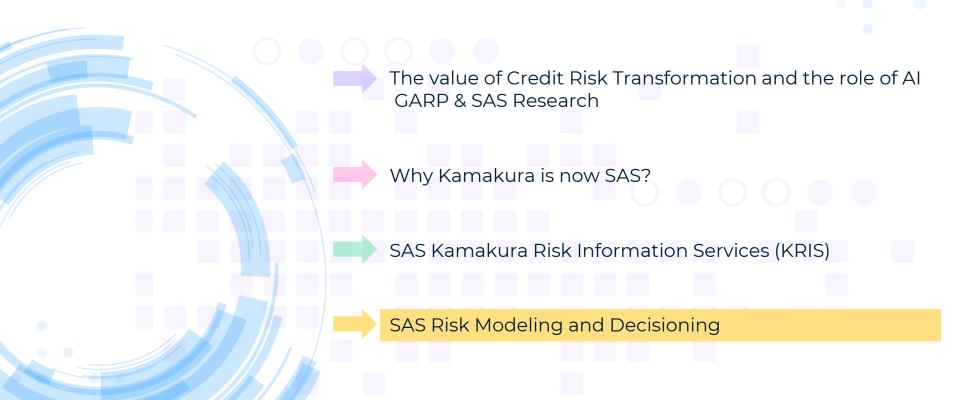
#### **Credit Name - KDP, Term Structure**



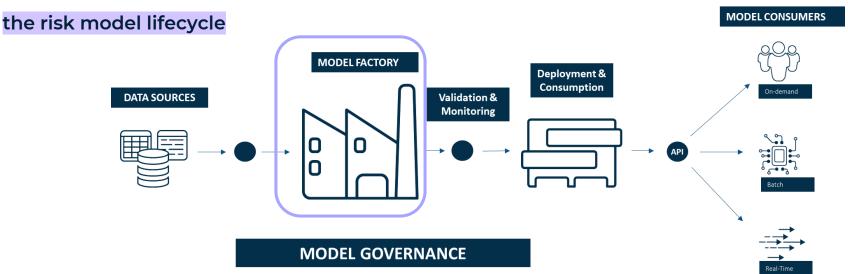
#### **Troubled Company Index**



#### **Agenda**









Achieve both speed and scale at a reasonable cost



Lack of scalability can translate in missed opportunities

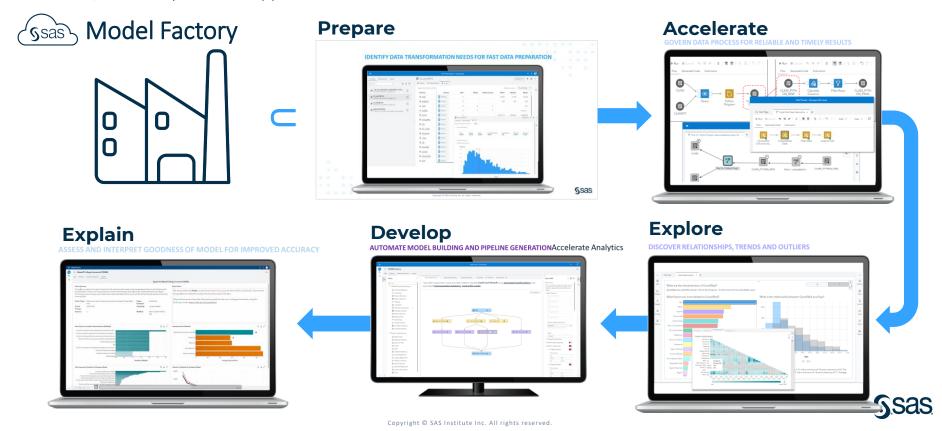


Velocity and volume of decisions will continue to increase



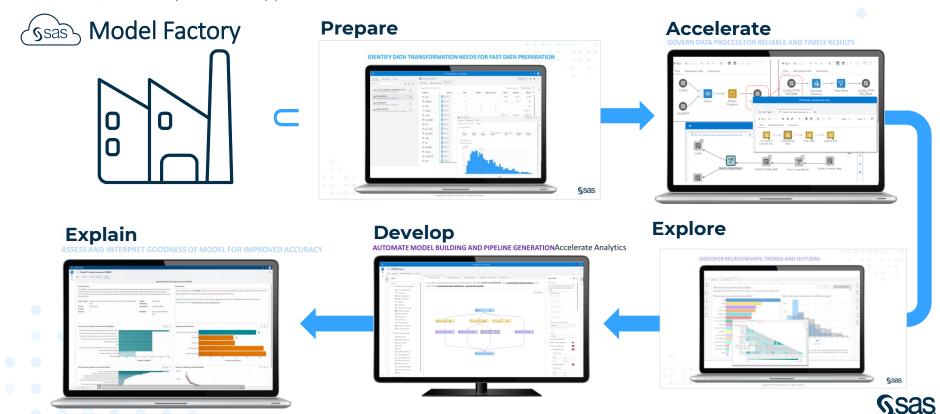
#### automated, lean development

Visual, Code-only or mixed approach



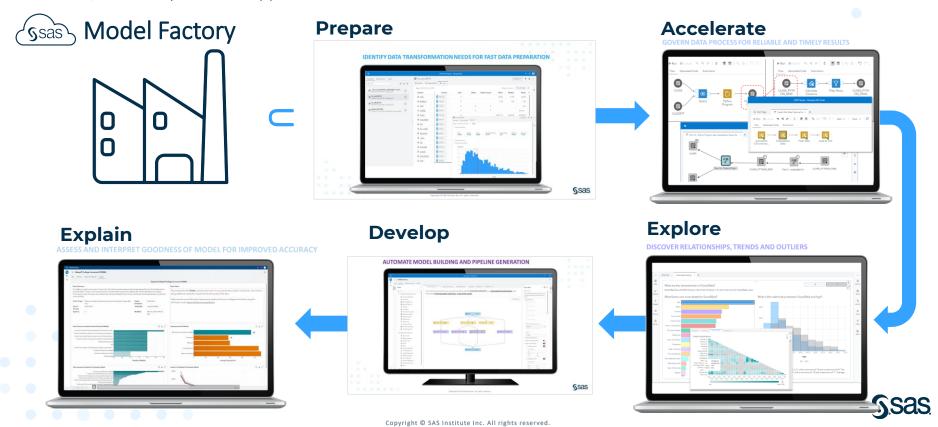
#### automated, lean development

Visual, Code-only or mixed approach



#### automated, lean development

Visual, Code-only or mixed approach



#### Several integration points for coding languages

#### A common framework for Open Source, SAS and SAS GUI models





Compare models of different coding languages and SAS GUI



Inject Python code in data preparation flows



Interpret AI/ML models (incl. fairness and bias) from different coding languages



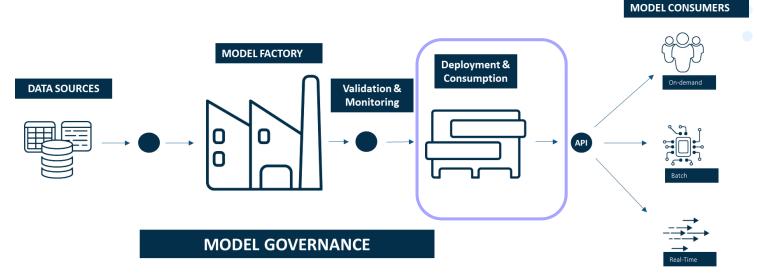
Copy Python/R code in model development pipeline



Register, deploy and monitor SAS and OS models









Achieve both speed and scale at a reasonable cost



Lack of scalability can translate in missed opportunities

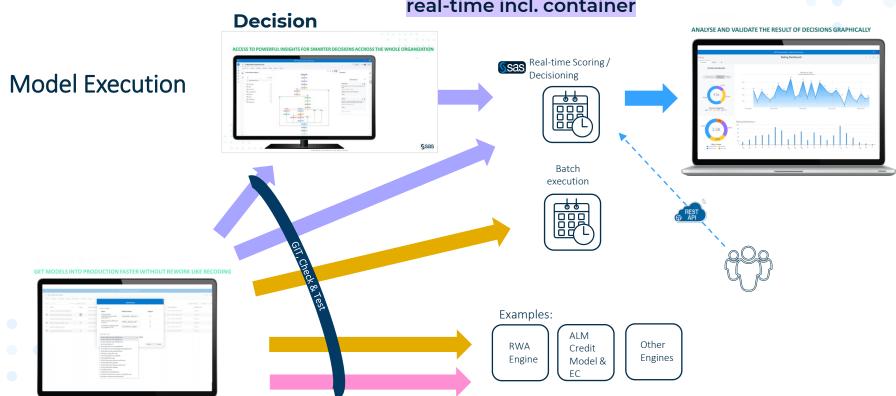


Velocity and volume of decisions will continue to increase



## Automated, lean model consumption &

**execution**Smooth model deployment in Batch, in-DB and real-time incl. container





#### Main benefits our single platform guarantees

**Business Value** 

**Features** 

Operational efficiency

Speed of time-to-model

Transparency and Future/proof

Keepping up with regulation

Scalability

Governed, quality assured model manufacturing

Highly automated, collaborative, lean design

Code integration from various coding languages

Effective central control across the group units

Cloud-native, containerization



