

L'impatto di Basilea 3 sulle politiche creditizie e di pricing

Programma

- ➤ Principali sfide per le piccole e medie banche
- > Alcuni casi concreti
- ➤ Conclusioni



Moody's Analytics

Moody's

Leading global provider of credit rating opinions, insight, and tools for credit risk measurement and management

MOODY'S INVESTORS SERVICE

Independent provider of credit rating opinions and related information for nearly 100 years

MOODY'S

Research, data, software, and related professional services for financial risk management



Una storia che inizia dai migliori operatori di settore



Credit Research Quantitative Credit Analysis

Economic Analysis

Structured Debt Instruments

Risk Management Software

Financial Education

Knowledge Process Outsourcing

Insurance Information

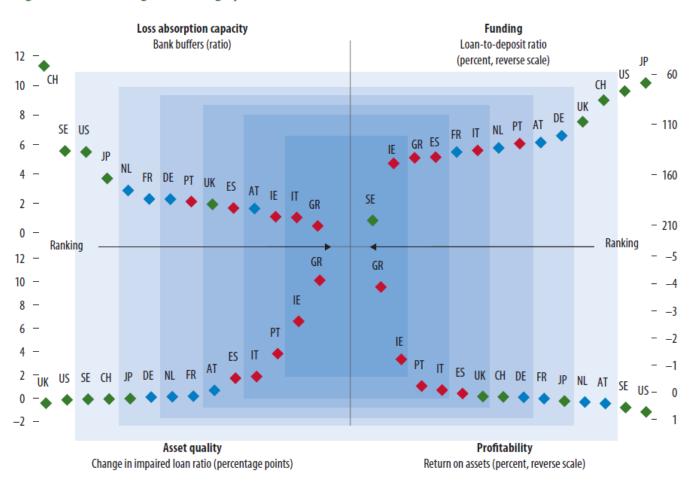
Principali sfide per le piccole e medie banche

- Scenario Competitivo: come crescere in un mercato caratterizzato da deleveraging
- ▶Le sfide legate al capitale
- Come fare buon uso (gestionale) dei sistemi di rating
- Come selezionare clienti a basso rischio ed alta potenzialità
- Come rendere efficaci le politiche di credito e di pricing
- ➤ Soluzioni «low cost high effectiveness»



Scenario competitivo

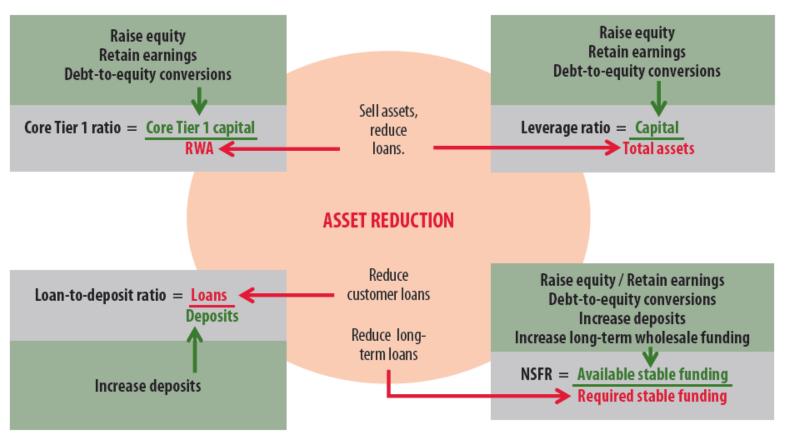
Figure 1.34. Ranking of Banking Systems Based on Banks' Balance Sheet Indicators, 2012:Q3



Sources: Bloomberg L.P.; SNL Financial; and IMF staff estimates.



Come migliorare capital and liquidity ratios?



... **DELEVERAGING** : 1.7% – 4.4%

Source: IMF.

Note: NSFR = net stable funding ratio.

IMF, Global Stability Report, April 2012



Business plans delle banche europee

Banche Europee che hanno dichiarato di cambiare la loro strategia di business



Source: Company websites; and IMF staff estimates.

⁴Has received government financial support.



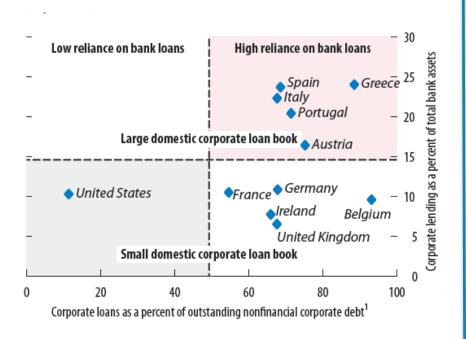
Includes interbank lending and commercial real estate loans; and working capital, project, and specialized finance, including leasing, equipment, trade, and commodities finance.

²Includes companies that specialize in car, aircraft, shipping, leasing, project, and structured finance; investment banks; and municipal bond agencies.

³All EU and non-EU countries in eastern Europe, including Poland, Russia, and Turkey.

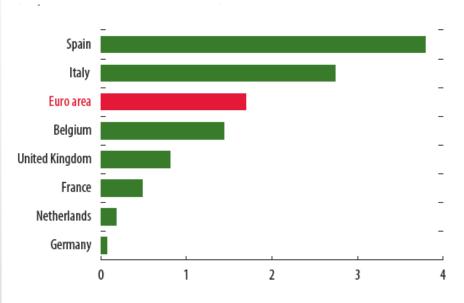
Come migliorare capital e liquidity ratios?

Reliance on Bank Financing by Nonfinancial Corporations (In percent)



Sources: European Central Bank; Eurostat; Federal Reserve; Haver analytics; and IMF staff estimates.

Reduction in Suppy of Credit, by Banking System, Current Policies Scenario (In percent of total bank credit)



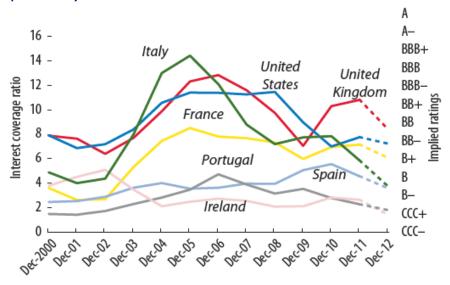
Source: IMF staff estimates.

Note: Data are an extrapolation of results from a sample of banks to the entire banking system. Total bank credit includes domestic and direct cross-border credit supplied by banks in each country.



IMF Credit Quality con modelli di Moody's Analytics

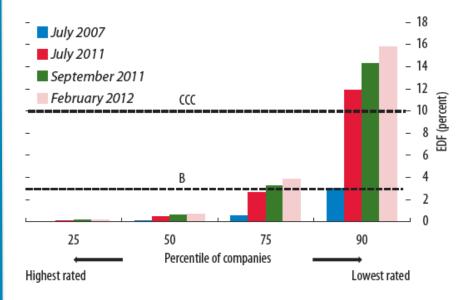
Nonfinancial Corporations: Interest Coverage Ratio and Implied Ratings (Ratio, left scale, in percent)



Sources: Bloomberg L.P.; and IMF staff estimates.

Note: Dashed lines are projections. Interest coverage ratio is earnings before interest and taxes divided by interest expense. The implied ratings are from a sample of more than 800 U.S. firms that constitute the benchmark high-grade and high-yield corporate bond indices.

Corporate Credit Quality in Western Europe, 2007-12 (In percent)

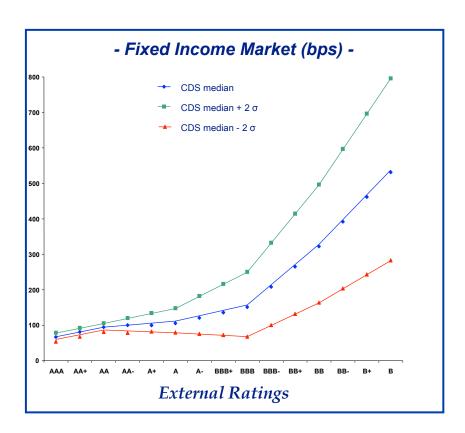


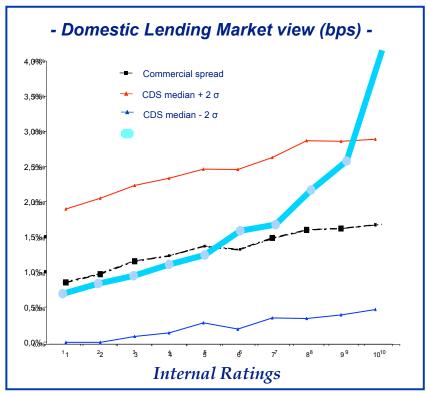
Source: Moody's KMV.

Note: EDF = expected default frequency. EDF is a market-based credit measure that represents the probability that a firm will default within one year. The dotted lines show implied credit ratings associated with particular EDFs. Western Europe comprises the euro area, Denmark, Norway, Sweden, Switzerland, and the United Kingdom.



Importanza del pricing in origination

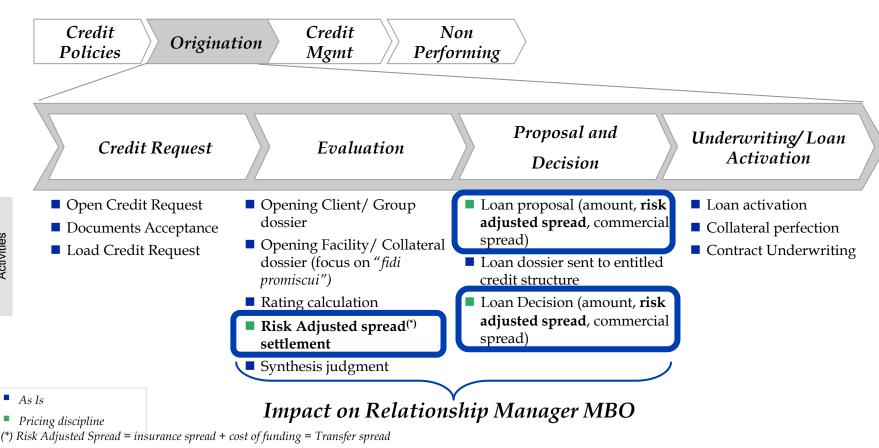






Risk adjusted spread settlement will impact on Origination phase of the Credit Process; real time calculation makes RMs aware of the credit risk impact

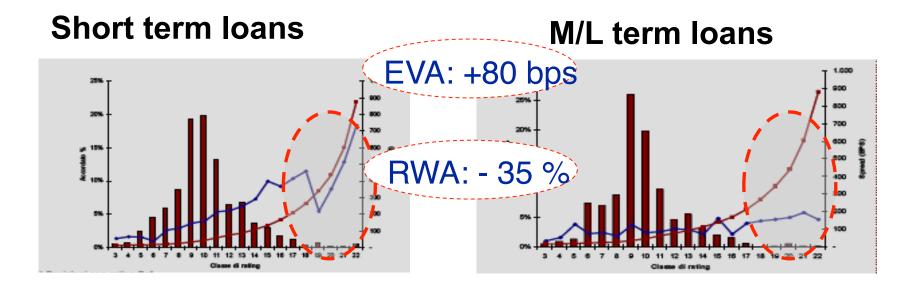
- Impacts on Credit Process -





Activities

Pricing e new loan origination



- ➤ Positive correlation between risk (rating classes) and return (interest margin on average volume) for clients with new short term loan until class 19
- Positive margins between commercial spread and risk adjusted spread, on exception of high risk classes

- ➤ Spreads are applied basically irrespective of counterparty risk for new mid to long-term issues
- The commercial spread/ insurance spread differential is negative above risk class 14



Case study 1

Chi → Banca media presente in alcune regioni italiane

Esigenza→ Supporto nella valutazione del segmento SME in *origination* e relative scelte di *pricing*

Caratteristiche e benefici del progetto

- > Utilizzo di un modello disponibile immediatamente
- Advisory nel fine-tuning delle proprie politiche creditizie
- Valorizzazione del patrimonio di conoscenza della banca
- Maggior velocità ed efficacia in origination
- ➤ Maggior coerenza tra visione del *risk management* e dell'area commerciale
- Ottimizzazione campagne nuovi clienti.



Componente Quantitativa: EDF

	A 1-anno	A 5-anni
Frequenza Attesa d'Inadempienza (EDF)	0.35%	2.09%
Rilevazione della percentuale di obbligazioni insolute	Baa2.edf	Baa2.edf
Percentile	22.53%	22.60%
Organizational Rating	4	D

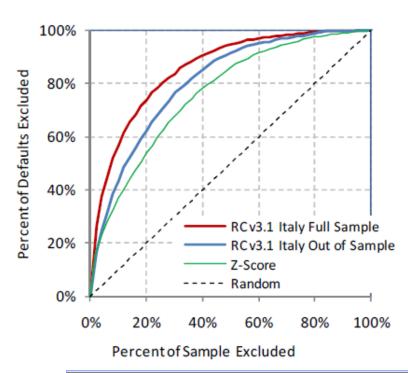
	A 1-anno	A 2-anni	A 3-anni	A 4-anni	A 5-anni
Totale	0.35%	0.76%	1.19%	1.63%	2.09%
Differita	0.35%	0.41%	0.43%	0.45%	0.46%
Annualizzata	0.35%	0.38%	0.40%	0.41%	0.42%

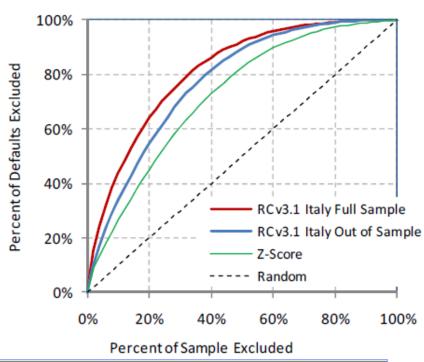


Performance del modello

1 Year Cumulative Accuracy Profile

5 Year Cumulative Accurcy Profile



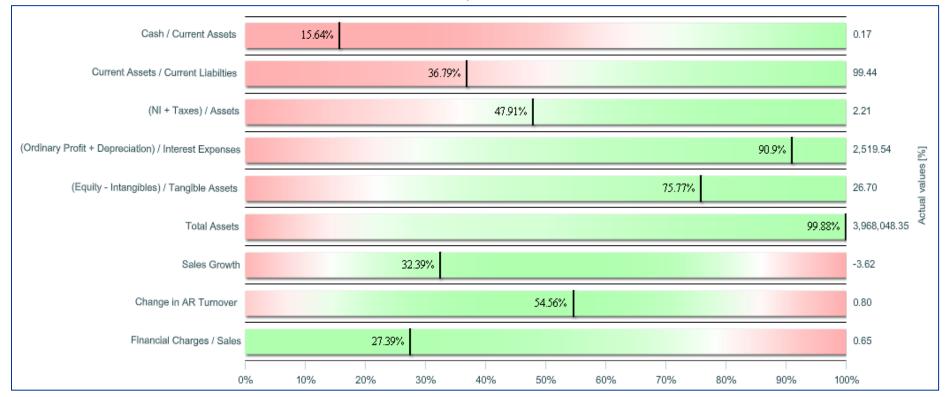


Five-year Model One-year Model **Full Sample** Out-of-sample Full Sample Out-of-sample (1993-2008) **Accuracy Ratio** (2003-2008)(1993-2008)(2003-2008)RiskCalc v3.1 Model - FSO 73.19% 63.88% 61.83% 53.89% Z-score 54.85% 44.89% 43.32% 39.78%



Grafico dei Percentili

Modello quantitativo



I colori dipendono dalla relazione esistente fra ogni indice e i tassi di default osservati:

■ ROSSO: Alti tassi di default

•GRIGIO: Tassi di default medi

VERDE: Bassi tassi di default

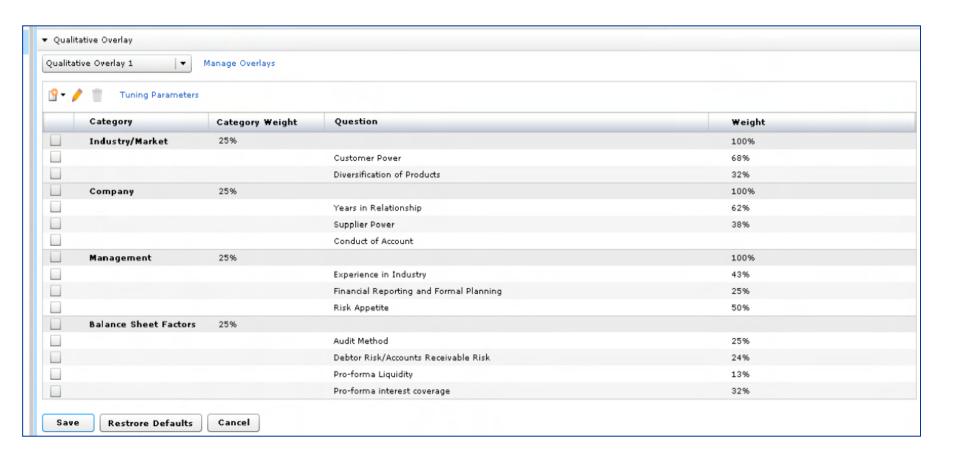


Componente Qualitativa

uestion Weight			Answer				Score	
ndustry / Market			25					100
Customer Power		40		Weal	k		▼	100
Diversification of Products		60		Few Products, Broad Market			-	100
ompany			25					98.1
Year in Relationship		30		> 2 \	rear ear		-	66.7
Supplier Power		30		Weak			-	100
Conduct of Account		40		Good			▼	110
lanagement			25					100
Year in Relationship		20		> 2 1	rear		▼	66.7
Supplier Power		15 45		Weak		-	100	
Conduct of Account				Good	Good		-	110
Conduct of Account		20		Good			▼	110
alance Sheet Factors			25					100
Audit Method		10		Unqu	Unqualified ▼		[▼]	66.7
Debtor Risk/Accounts Recievable Risk Pro-forma Liquidity		70 10		Good spread/ Good quality		-	▼ 100 ▼ 110	
				Improving Credit Risk Significantly				▼
Pro-forma interest coverage		10		Improving Credit Risk Significantly		1+	110	
	Score	Score	e(Standa	ardized)	Moodys Rating	Organization Ration	na	- 6
Quantitative								
EDF	0.70%	-0.32			Ba1	Ba1		
Qualitative								
Industry/Market	100.00							
Company	98.06							
Management	92.50							
Balance Sheet Factors	75.00							
Qualitative Score	89.77	-2.90			Aa3	Aa3		
	PD	Score	(Standa	rdized)	Moodys Rating	Organization Ratio	ng Perce	ntile



Personalizzazione della componente qualitativa





Come valutare le altre Banche?

Modello ad hoc per la valutazione di banche quotate e non quotate

Category	Ratio	Weight 1-yr	Weight 5-yr
Profitability	ROA	25%	17%
Asset	Non-Performing Assets/(Equity	220/	00/
Quality Asset	+ALLL)	23%	9%
Quality	Provision/Loans	6%	1%
Liquidity	Loans/Deposits	16%	24%
Leverage	Equity/Assets	15%	12%
Growth	Change in ROA	15%	9%
Portfolio	Equity/Unexpected Loss		
Risk	(5-year Model Only)		19%



Case study 2

Chi → Banca medio-grande

Esigenza → Sviluppo di un modello interno per la valutazione SME e corporate, razionalizzazione strumenti in uso, efficacia nella realizzazione

Caratteristiche e benefici del progetto

- Sviluppo di "unico" modello di origination per tutta la banca
- Approccio Risk Based Pricing
- Valutazioni di stress testing
- Automatizzazione delle politiche e dei processi (unico workflow)
- Qualità e coerenza dati (unico DWH)



Supporto nello sviluppo di un modello interno

Model Development



Model Rollout



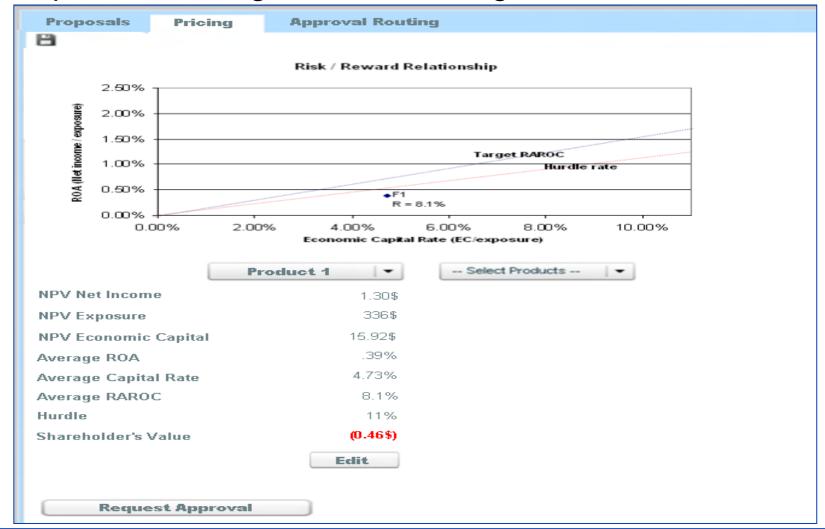
Model
Validation &
Calibration

- > Aggregating & cleaning data
- Matching loan performance data to financial & expert risk drivers
- Determining appropriate risk drivers
- Determining accurate factor weightings
- Connecting external data feeds
- Standardizing collection and use of financial statement information & other risk drivers Writing model computation module
- Developing User Interface, reports, and data storage
- Roll out for testing and training
- ➤ Assessing population appropriateness
- > Testing rank ordering ability and for statistical significance
- Determining appropriate mapping to risk grades or PDs



Risk Based Pricing

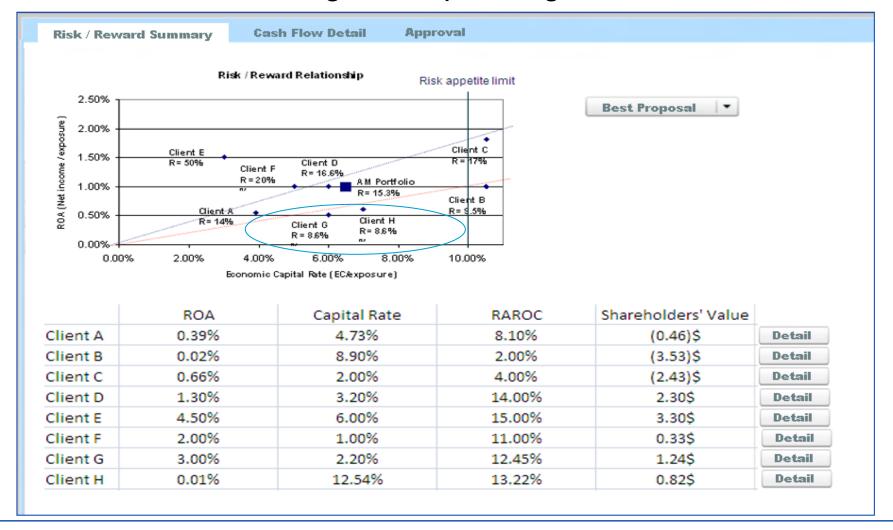
Per "prezzare" adeguatamente il singolo finanziamento





Risk Based Pricing

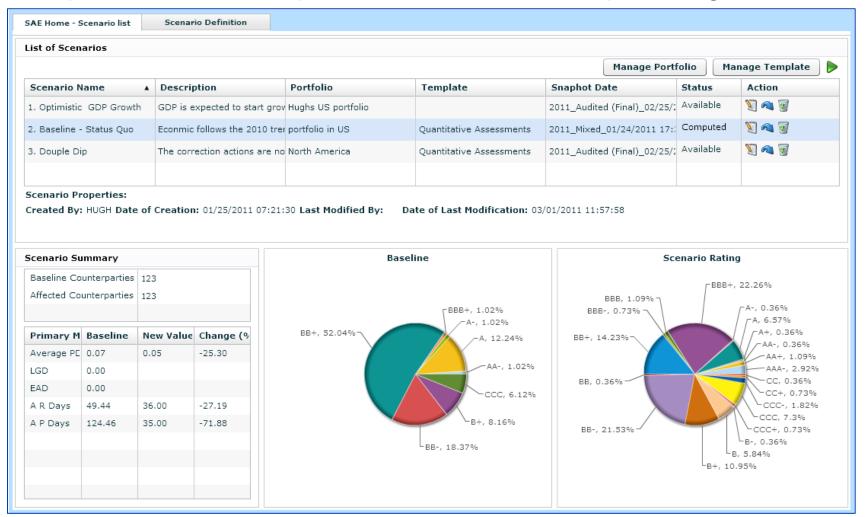
Per una visione strategica del portafoglio





Stress Testing

Per prevedere cosa potrebbe accadere al portafoglio





Conclusioni

- Cambia il mercato, per crescere bisogna sapersi adeguare
- E' importante avere soluzioni veloci ed efficaci, che valorizzino l'esperienza della banca sul mercato
- E' determinante la capacità di realizzare e automatizzare le politiche e il *pricing*



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