## Managing Global Risk: How to Measure & Mitigate Risk in a Volatile Environment



Presented by:

Mark Regenhardt, Managing Director Marsh Credit Specialties

Naeem Jones, Executive Director-Credit Risk Castleton Commodities International LLC

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#### Agenda

- Market Update
- Managing Risk- a Corporate Perspective
- Risk Finance Optimization

#### **Credit Market**

#### Industry 1-Year Default Rate Forecasts – US (Moody's)

Default expectations have fallen from last month, and the forecasts are now lower than they were at this time last year for most sectors. Media: Broadcasting & Sub. now has the highest forecast at 6.75% (up from 6.18% last month and up from 3.66% YoY), followed by Telecommunication at 5.28% (down from 6.33% last month and down from 7.66% YoY). Media: Broadcasting & Sub. and Transportation: Consumer are the 2 sectors with the highest default expectation increase since last year.



#### **Credit Market**

#### Global Corporate Default Count (Moody's

Four out of the nine defaults in March came from the telecommunication sector and all 4 from the US. Moody's anticipates a resurgence in defaults reaching double digits in April due to several issuers either filing for bankruptcy, missed debt payments or indicated their intention to complete a debt restructuring (meeting Moody's criteria for a distressed exchange). April's rebound will likely be more gradual than December's. Distressed exchanges have constituted over half of this year's defaults, a trend Moody's foresees persisting.



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#### **Credit Market**

#### Rating Actions - Sovereign, Financial, and Nonfinancial Corporate (S&P)

As sentiment improved and economic growth exceeded expectations, rating actions became more positive in March. The number of upgrades rose by 44% in March, reaching its highest in a year and although downgrades also increased, the pace was slower at a rate of 23%. While credit trends have broadly improved recently, escalating geopolitical tension and inflation – potentially fueled even more now by rising tensions on Middle East shipping lanes and the collapse of Baltimore's bridge – could pose renewed challenges to credit if rising uncertainty leads to higher funding costs. Recent geopolitical developments and a potential shift in US monetary policy, which would also affect emerging markets, could cause financing conditions to turn more challenging in the near-termfuture.





Rating Actions by category in March

Source: S&P Global Ratings, April 2024



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# **RFO / Benchmark Modelling**

- 1. What does it do?
- 2. How does it work?
- 3. Why companies are interested
  - Real-life examples
- 4. What does the future look like?

An analytical look at the global A/R portfolio, risk exposure and tolerance, losses, industry and country data, economic cost of risk, and other variables as part of **developing a model to determine the most appropriate risk financing structures for maximum efficiency**.

Real-life examples from a variety of industry sectors, including *machinery and equipment, metals, chemicals, agriculture, food and consumer goods.* 

One solution does not fit all.



**FUTURE** 

PREDICTIVE

#### What does it do?

**Risk Finance Optimization (RFO) and MiCredit Benchmarking** 

- Provides a fact-based data driven Analytical review of a company's Global A/R.
- It cross-references this with the Companies Financial Statement of accounts & pulls into the equation, the cost of capital / risk tolerance and Risk bearing capacity level.
- It shows the 'tipping point' for whether a company retains their Total Cost of Risk (TCR) on its own Balance-sheet or transfers it to a 3rd Party
- If a company utilizes Insurance, it provides a clear auditable-trail for Optimum policy structure and pricing and provides a 'Price to beat' if the Insurance market's price is lower, then your program is optimised.
- MiCredit is a Data library for Credit Insured business with over 6,000 clients and \$1 trillion credit limits. It provides 'live' daily feeds enabling real-life Benchmarking for Pricing / Risk appetite / program structure information – allowing guidance for companies trading in different Industry sectors; Global, Regional or local market guidance to the best solutions.

PAST

**REAR-VIEW** 

MIRROR



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#### How does it work?

**Risk Finance Optimization (RFO)** 

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#### **Financial Accounts**

- Bad debt provision
- Risk tolerance (retained loss)
- Weighted average cost of capital
- · Risk bearing capacity level
- Key Performance Indicator (KPI) Selection
  - Segment Income Statement
  - Net Sales
  - Profit Before Interest, Tax, Amortization and Depreciation (EBITDA)
  - Segment Cash Flow Statement
  - Cash & Cash Equivalents
  - Segment Balance Sheet
  - Total Equity
  - Calculated Risk Tolerance range
  - Assigned weights to each KPI shown in table below
- 2

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#### **Industry Sector Ratings** Live Feeds from Multiple Insurers **Independent Average Sector Rating** Allianz Trade Attractius Ocoface Insurer RA% -• -1 0 1 0 0 0 ۵ -4 0 --0 20 0 0 0 -0 2 4 --0 0 0 0 4 🧼 Marsh



#### **Other Factors**

Other Factors – Aging / Loss History / Bankruptcy





## **Our Three-stage Approach To Trade Credit Analytics**

1. RISK IDENTIFICATION	<ul><li>We identify your risk by:</li><li>Risk Mapping.</li><li>Credit Limit Profiling.</li><li>Claims Bandings.</li></ul>	
2. LOSS PROJECTIONS	<ul> <li>We have developed two proprietary Trade Credit analytics tools to help you to understand your loss potential:</li> <li>Frequency Model: Probability of Default.</li> <li>Severity Model: Loss Given Default.</li> </ul>	
3. ECONOMIC COST OF RISK (ECOR)	<ul> <li>Insurance programme optimisation to create the financially most efficient blend of risk retention and risk transfer.</li> <li>The programme with the lowest ECoR is the optimum structure.</li> </ul>	

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MFG AR Cover	Uninsured	Option 1 EEL \$5k Indemnity 90% Assumed Premium Rate 0.1%	Option 2 AFL \$2,5m Indemnity 90% Premium Rate to beat 0.08%	Option 3 AFL \$5m Indemnity 90% Premium Rate to beat 0.06%	NGL = Non-qualinying Loss EEL = Each & Every Loss AFL = Aggregate First Loss	
Market Premium (MP) Price to beat for Options 2.3		6,000,000	4,532,445	3,845,441		
verage Retained Loss (AR)	6,760,442	1,470,383	2,937,938	3,624,942		
TCOR (=AR+MP)	6,760,442	7,470,383	7,470,383	7,470,383		
Average Transferred Loss	-	5,290,058	3,822,504	3, 135, 500	24% 3% 16%	Automotive     Lifestyle     CEC
MFG AR + Inventory Cover	Uninsured	Option 1 EEL \$5k Indemnity 90% Assumed Premium Rate 0.1%	Option 2 AFL \$2.5m Indemnity 90% Premium Rate to beat 0.08%	Option 3 AFL \$5m Indemnity 90% Premium Rate to beat 0.06%	22% 29%	Consumer Dev Industrial Health
Market Premium (MP) Price to beat for Options 2.3		13,889,959	11,389,959	8,889,959		
_,_	24.184.908	5,754,085	8,254,085	10,754,085		
verage Retained Loss (AR)		10.011.010	10 644 042	19 644 043		
TCOR (=AR+MP)	24.184.908	19,644,043	13,044,043	10,044,040		





#### Multiple Industry Sectors – North America Total Potential Global Exposure & Risk Concentrations Scorecard : USA & Canada Client Region



# Why people are interested?

## Sector examples:

machinery and equipment, metals, chemicals, agriculture, food and consumer goods.

ک Machinery & Equipment Case Study – Global/Regional Optimization – Dealers / Fleet / Parts - Future EV Portfolio

- · Global HQ wanted to create Global efficiency
- · No consistency on or off-balance sheet.

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32 Policies but this covered about 35% of their business

Credit (EUR)	Gross	Current Press NGL 10 K Protecting 60% NGL 10 K Interneting 60% NGL 11 K Interneting 60% Protecting 60% VGL 100 VGL ND Interneting 60%	Option 1 Provide NGL 174 Contension (MM) NGL 174 Contension (MM) NGL 174 Contension (MM) NGL 194 Contension (MM) NGL 194 Contension (MM)	Option 2 Finance Mathematical States Mathematical States Mathemati	Option 3 France Particle 18, Annual Particle Particle 18, Annual Particle Particle 18, Annual Particle Particle 18, Annual Particle Particle 19, Annual Particle 19, Annua
Average Retarted Lines (Alf-MCE-412minaced) (Dasket on *0.000 simulators)	10.474.691	5.962.411	3.806.020	6 126.830	3.200.099
Average Caption (Jins (AC)	0	0	0	0	4.773.536
Manager Propression (MPS) (Phone In-Scatt For opposite T-as)	0	6.590.466	8.854,614	6.465.613	4,104,832
			6.670/637	TARGE L	
Capture Costal (ACC) (Accession and Acquirement)	0	0	0	O	362.270
IRC (Bread on 7% WASC)	442.719	284.092	176.334	244.526	170.482
ECSR <sup>#</sup> (*AR+AC+MP+ACC+IRC)	10.917.410	12.836.968	12.838.968	12.835.968	12.836.968
1/20 Histored Lose Oncluding Captives	27.913 626	16.006.683	0.972.192	16.264.807	16.298.211
1050 Relained Loss Uncluding Captive	37.699.531	23 563.849	14.564.091	21.128.427	20.768.891
Num Enformance 1.5 Dream productility Negutines Cognital" (Delevency Ratio)	10%	2%	0.01%	1%	1%
			-		



Whole Turnover

Excess of Loss

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**b** Transition from Whole Turnover to Excess of Loss (XOL)

#### **Global ABC Today**

- Global Sales = \$18.9B
- Premium (0.0475%) : \$9.2m
- Deductibles \$10k-\$25k APAC. Europe & N. America \$1mAFL
- Discretionary Limit \$25 \$250k
- Maximum Liability variable c \$250m
- 5 year Loss Ratio < 20%

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- Approx. \$450m of Open risk - Most limits Cancellable

#### Global ABC Tomorrow

- Global Sales = \$20.5B
- Fixed Premium : \$3.7m
- Deductible AFL or future Captive \$7.5m
- DCL = \$2m to \$7.5m
- Maximum Liability \$150m (Higher by endorsement)
- 5 year Loss Ratio < 20%
- Potential to closeALL Open risk - All limits Non-cancellable



Dramatic reduction of Open riskMajor cost savings

Agriculture Business – Appetite low in challenging markets 9 Hedging the Risk in the Most Optimized Way New coverage options **Global / Regional Risk appetite** Reduced Top-up nsurance costs of 15% Supported capital release target of circa €200,000,000 Unlocked €80,000,000 additional capacity 22% Premium savings in year 1 ofinsur genera anced cove and admin costs **Benefits for Agri-business** Auto-reinsurance - a product designed by Marsh to help increase the overall Marsh client's coverage with their underlying Primary Insurer. Reverse Surety protection - Accessing the Surety market to gain significant coverage to help address concentration risks Dual/parallel Insurance -a pre-packaged product with upfront agreed policy wordings that allows Clients to increase coverage in line with commodity price increases Marsh

#### **Agriculture – Market Concentrations**

Sample of Active Insurers – Globally – Helps Guide Where to 'Unlock' Capacity

#### **Hot Spots**

- LATAM Brazil / Colombia / Argentina / Mexico
- Central Eastern Europe Poland
- CIS Ukraine / Russia / Kazakhstan
- Middle East
- Africa Morocco / Egypt + Sub-Saharan
- South East Asia
- Concentrated risks in Western Europe & USA

		RA% Pre-Marsh Engagement	RA% Post-Marsh Engagement	% Reduction in Xx's Uninsured AR's
	Thailand	78%	84% (+6%)	-50%
APAC	Philippines	72%	76% (+4%)	-22%
	Indonesia	79%	84% (+5%)	-45%
	Iberia	77%	85% (*8%)	-62%
-	Poland	75%	80% (+5%)	-33%
EMEA	South Africa	78%	85% (+7%)	-58%
	Baltics	70%	76% (+6%)	-30%
	Panama	57%	61% (+4%)	-12%
LATAM	Chile	52%	60% (+8%)	-21%

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## Future Add-Ons

Limitless Possibility...

- Sustainability Scorecard. Coming soon ESG Rating
- Supply Chain Disruption / Business Interruption





Mark Regenhardt Managing Director, Credit Specialties Marsh USA Cel. 847-651-0851 Mark.Regenhardt@marsh.com

#### **Naeem Jones**

Executive Director, Credit Risk Management Castleton Commodities International, LLC Cel. 914-815-8644 Naeem.Jones@CCI.com



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