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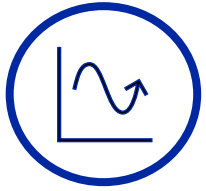


Credit Impacts on the SA Corporate Sector: Evaluating the Implications of a Volatile Environment

Damian Watson, Senior Director, Predictive Analytics

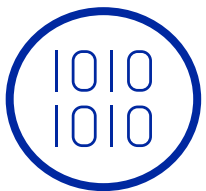
April 2023

Topics of Discussion



The credit environment is going through continuing turbulence and volatility.

- What is the current state of health and what is the outlook.



There is a lot for Credit Managers to focus on and market shocks can create further disruption.

- How Early Warning systems can focus attention on portfolio vulnerabilities and help navigate uncertainty.

Who we are

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Background to Analysis

Summary of approaches for the analysis

Benchmark PD model

- Often due to firm characteristics, or convention in jurisdictions mean financial statements are not readily available for many firms.
- Relevant firm characteristics and predictive financial ratios are trained against observable model PD outputs
- Generates estimated PD despite limited available information

Macro-economic forecast:

- Model-based relationship between historical PD and Macro-economic factors
- Relationship established at country, sector and rating-level
- Allows forecasting of firm-level PD based on future macro-economic scenarios

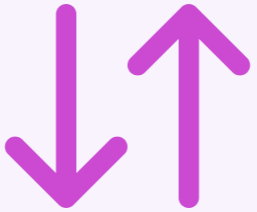
Early Warning:

- Approach allows identification of rising risk for a firm, relative to peers/
- Relative firm risk based on comparison of pre-defined peer group trigger and the firms' PIT 1-year PD
- Allows specific actions to be assigned to each EW risk rating

Scope

Sector	Firms
A - Agriculture, Forestry and Fishing	1,852
B - Mining and Quarrying	778
C – Construction	4,227
D – Manufacturing	11,437
E – Transportation, Communications, Electric, Gas & Sanitation	3,879
F – Wholesale Trade	5,276
G – Retail Trade	13,085
H – Finance, Insurance and Real Estate	278
I – Services	23,760
J – Public Administration	191
Public Firms	151
Total	64,914

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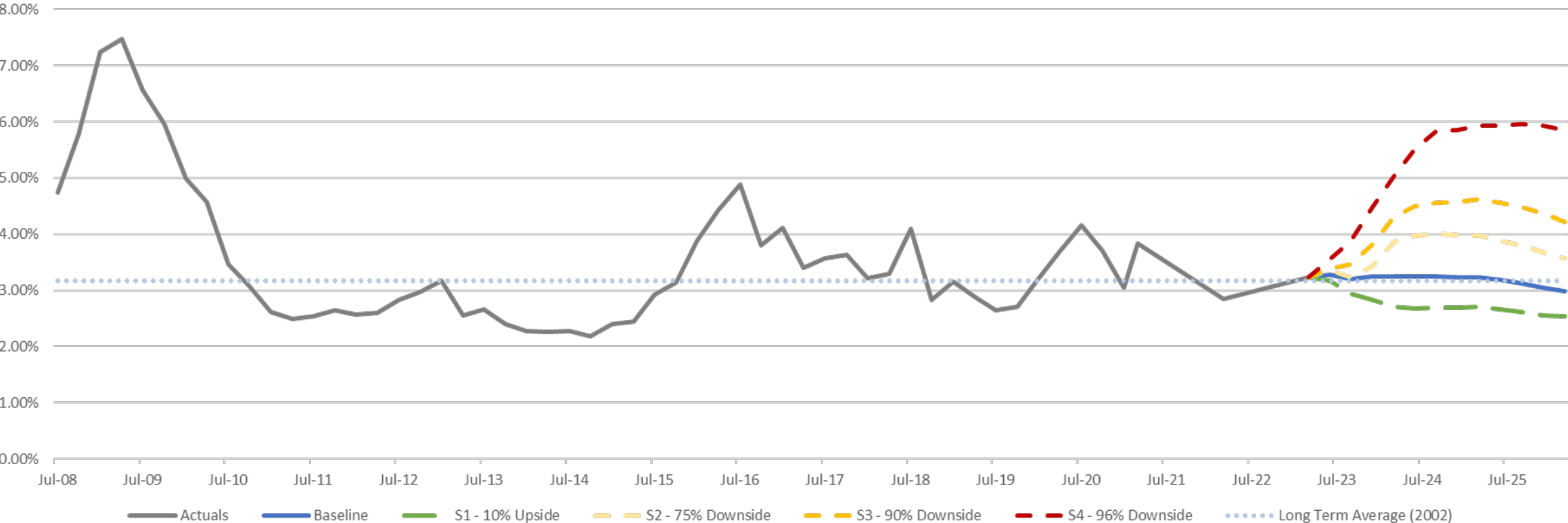


In order of severity (highest to lowest) – what risks do you see as most material to your portfolios?

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Forecast stable levels of firm default under baseline scenario, remaining marginally above long-term historical levels

South Africa Corporate Sector Probability of Default forecast
from macroeconomic scenarios (Private Firms)



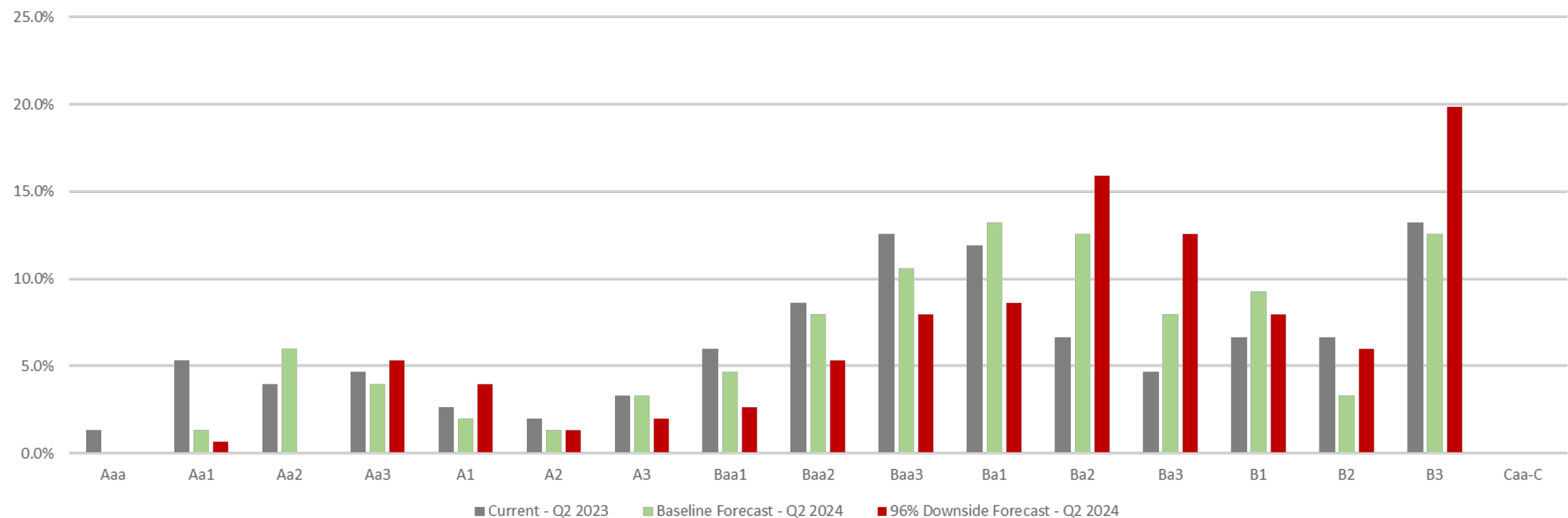
Sector level forecasts reflect limited deterioration in risk, but could be exposed in event of further downturn

South Africa Corporate Sector Probability of Default forecast from macroeconomic scenarios (Public and Private Firms)

	Actual		Forecast	
Division	Q2 2023		Q2 2024 - Baseline Scenario	Q2 2024 - 96% Downside Scenario
A - Agriculture, Forestry, And Fishing	 5.29%		5.89%	 -72.82%
B - Mining	 4.14%		-0.54%	 -30.90%
C - Construction	 4.30%		-2.97%	 -66.62%
D - Manufacturing	 4.46%		7.13%	 -50.86%
E - Transportation, Communications, Electric, Gas, And Sanitary Services	 3.13%		-2.84%	 -49.63%
F - Wholesale Trade	 2.78%		-3.27%	 -52.49%
G - Retail Trade	 2.98%		-1.64%	 -52.03%
H - Finance, Insurance, And Real Estate	 3.47%		1.75%	 -50.10%
I - Services	 2.53%		-4.42%	 -55.13%
J - Public Administration	 3.39%		-6.43%	 -43.52%
Public	 4.02%		-41.16%	 -77.29%
All Sectors	 3.68%		-4.41%	 -54.67%

Public Firm forecasts reflect limited deterioration in risk, but could be exposed in event of further downturn

South Africa Corporate Sector Implied Rating Distribution
from macroeconomic scenarios (Public Firms)



UK balance sheet forecast highlight inflationary headwinds...

Changes in Sales and Cost growth by Sector between Q4 2022 and Q4 2023
Baseline scenario



...which creates a varied picture of financial performance across sectors

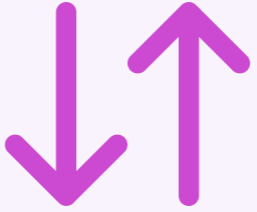
Dec 2022 (Estimates) - Dec 2023 (Baseline Forecast)	Change in Financial Ratio			EDF		
Sector	Profit Margin	Liquidity	Debt Coverage	Dec-22 (Estimate)	Dec-23 (Forecast)	EDF Change (%)
(A) Agriculture	-3.96	15.0	-71.93%	0.46	0.75	-62.6%
(B) Mining, Oil & Gas	2.68	1.1	-26.57%	2.17	2.11	2.7%
(C) Manufacturing	-1.40	0.1	-60.05%	1.94	2.53	-30.5%
(D) Utilities	-0.05	-0.8	-8.41%	1.32	1.55	-17.3%
(E) Waste	-2.24	-3.0	-65.05%	1.11	1.51	-36.5%
(F) Construction	-0.98	15.1	-50.85%	2.18	2.22	-2.0%
(G) Wholesale & Retail	-0.38	3.3	-48.45%	1.23	1.39	-12.8%
(H) Transportation	1.51	23.2	-35.19%	1.18	1.00	15.7%
(I) Accommodation & Food Services	-4.39	20.7	-62.54%	2.07	2.36	-13.7%
(J) Information	0.23	2.3	-47.23%	2.11	2.19	-4.0%
(M) Professional Services	0.05	4.4	-40.65%	1.78	1.88	-5.7%
(N) Admin Services	-1.90	5.7	-38.45%	1.84	1.86	-1.1%
(Q) Health Care	-3.99	-43.0	-91.16%	0.89	1.48	-65.5%
(R) Arts & Entertainment	0.51	32.5	-39.24%	0.79	0.72	9.0%
(S) Other Services	0.18	-5.6	-38.49%	0.98	1.12	-13.5%

Debt Coverage =
EBITDA divided by
Interest Expense.
Change is calculated as
percentage change.

Liquidity = Cash plus
Marketable Securities
divided by Current
Liabilities. Change is
calculated as simple
change.

Profit Margin = Net Profit
Turnover. Change is
calculated as simple
change.

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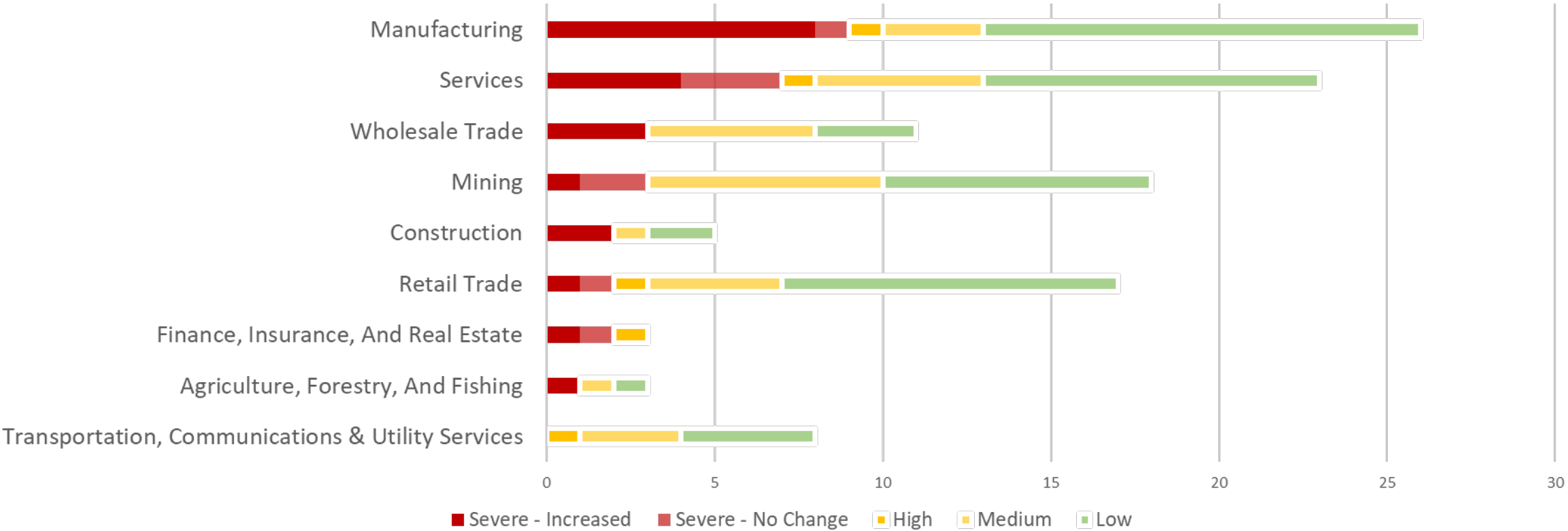


Which are most challenging elements to get right in your Early Warning System? (Most to Least)

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Early Warning Classification highlight disparity of company performance within sectors

Early Warning Classification by Sector
March 2022 and March 2023 (Public firms)



Monitor conditions in which firms with rising risk would face further deterioration

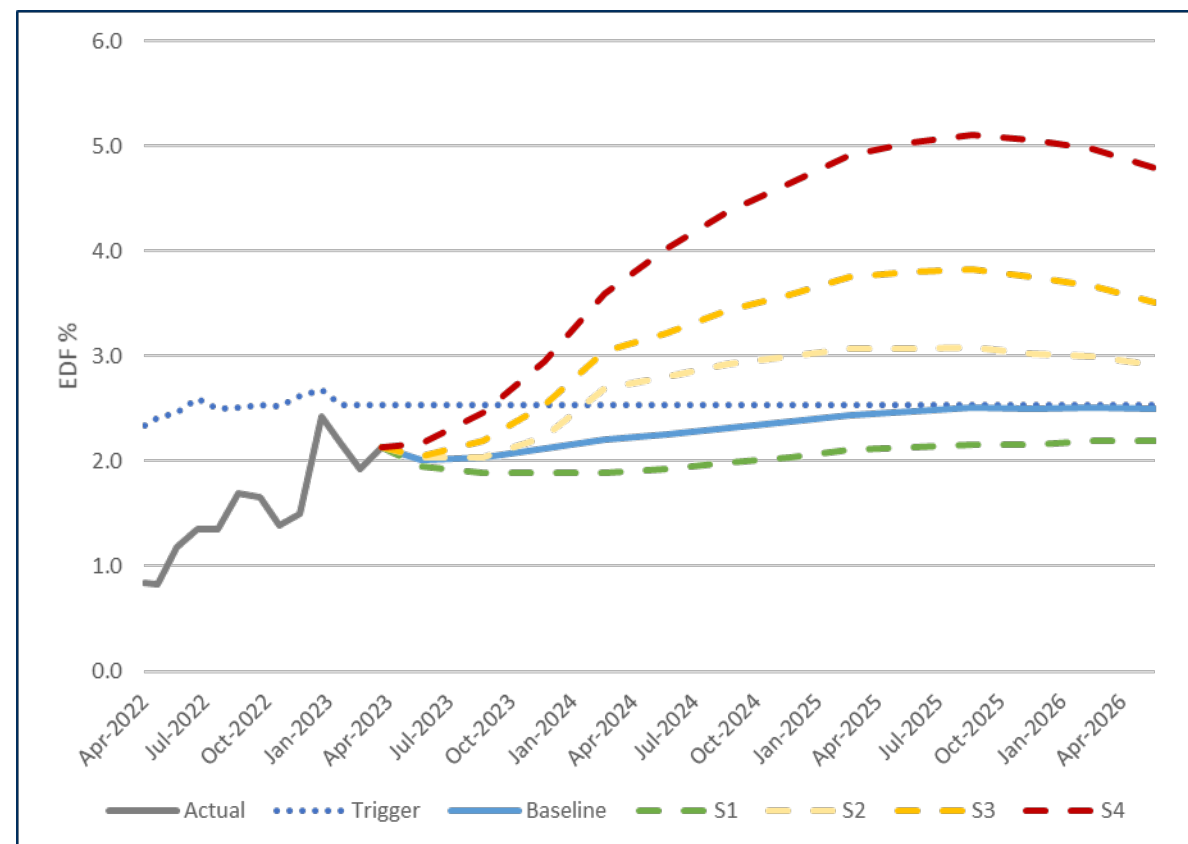
BARLOWORLD LTD – Wholesale Trade - G10070

Profile

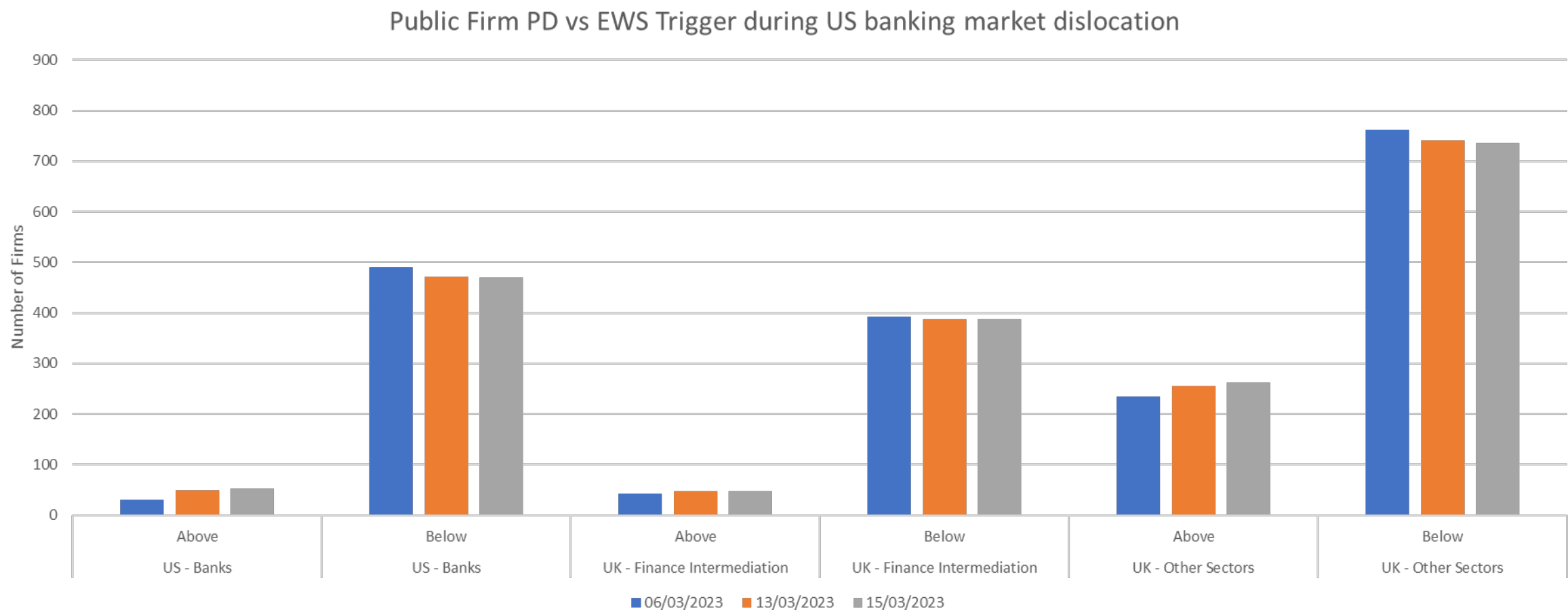
Barloworld, headquartered in South Africa, is the exclusive distributor and after-sales support provider of Caterpillar heavy equipment for the mining and construction industries across southern Africa, Russia and Mongolia. Equipment sales and servicing accounted for 70% of Barloworld's revenue and 69% of operating profit for FY2021.

EDF Credit Assessment

- Low EWS classification in Q1 2022.
- Increasing EDF through 2022 resulted in rises in Implied rating, although below peer trigger. Medium EWS classification in Q1 2023.
- Firm likely to remain below peer trigger level in Baseline scenario.
- However, could breach current trigger levels in 2024 under downside scenarios



At the same time, EWS measures indicate recent market events are contained...for now?



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