S&P CAPITAL IQ

Solutions Exchange Product Spotlight

Gustavo Tella, CFA, FRM Primary Analyst Solutions Architect (44) 20-7176-8342 Gustavo_Tella@spcapitaliq.com

Pavle Sabic, FRM Solutions Architect (44) 20-7176-3730 Pavle_Sabic@spcapitaliq.com

Solutions Exchange is developed by S&P Capital IQ's Solutions Architects, a separate and independent team at Standard & Poor's. The objective of this analysis is to gain greater insight into specific events and trends in the market using S&P Capital IQ data and analytics solutions.

Case Study: Assessing The Credit Health Of U.K. Health Care Companies

Insurers, companies, and banks have a strong need to understand the performance of the companies with whom they do business. This can be in the form of making a lending or underwriting decision, selecting a supplier, selling on credit, or even considering companies in which to invest. The challenge of assessing a company's credit is greater when there is less readily available public information.

- Looking at companies within the U.K. health care sector with limited public information, we built an analysis to understand how companies perform relative to each other.
- By looking at client data and cash conversion cycles, we found companies that are likely to outperform their peers in the future.
- We also looked at how the probability of default can bridge stock market performance with trends in the credit profile of a company.

Building A Case For Relative Analysis

Using the S&P Capital IQ "Company Screening" tool, we screened for unrated U.K. health care companies that equity analysts do not follow (see figure 1). The screen yielded 42 companies.

Figure 1: Company Screening

Company Screening Screening Results > Clients and Supplier

View Criteria Customize Display Columns				
Hide Criteria Return to Screen Builder	🔚 §a	reen	E	Save as New Screen
Reorder			×	0
1 Geographic Locations: United Kingdom (Primary)	169504	Edit	×	Options 🔻
2 Company Type: Public Company	2074	Edit	×	Options 🔻
3 Vo of Analysts (Latest): is less than 1	716	Edit	×	Options 🔻
1 Industry Classifications: Healthcare (Primary)	42	Edit	×	Options T

Source: S&P Capital IQ Screener 3rd February 2012. This is a partial view of the screenshot.

We first screened for all companies located in the U.K. (169,504 companies). We then focused on public companies (2,074) and then companies without equity analyst coverage (716). We then screened by industry classification for pharmaceutical, biotechnology, and life sciences companies (42). Finally, we narrowed our results by searching for companies with four or more customers (as reported by S&P Capital IQ), which ultimately resulted in 17 companies. (Note: The initial search resulted in 20 companies, but three of those companies--DXS International PLC, e-Therapeutics PLC, and Sareum Holding PLC were excluded from our search because they were not available in the Credit Health Panel due to specific factors.)

We used S&P Capital IQ's Credit Health Panel (CHP) framework of 24 financial metrics to rank the companies in our analysis (see figure 2). These metrics are divided into three sets of data, covering the operational, solvency, and liquidity aspects of the companies in the group. Users can customize groups, which can comprise up to 100 different names.

Figure 2: Peer Group of the 17 UK Health Care Companies on CHP

 UK Health Care Customers Total Companies: 17 										
1 Top 🔯 Above Average 🔋 Below Average 📕 Bottom 🏾 🛧 Score Change										
	Credit Health Panel Company Scores									
Company Name	Overall	Operational	Solvency	Liquidity						
Asterand PLC	- 4	2	4	4						
Avia Health Informatics Public Limited Company 🗐	- 4	- 4	3	4						
EDEN RESEARCH PLC (1)	- 4	3	- 4	- 4						
Healthcare Locums PLC	- 4	3	2	- 4						
Proteome Sciences PLC	- 4	- 4	- 4							
Cyprotex PLC		1	1							
Mediwatch PLC		2	2	4						
Oxford Pharmascience Limited		- 4	- 4	1						
Scientific Digital Imaging plc		2	3	3 🕶						
Physiomics PLC	2	- 4		1						
Source BioScience plc	2 🔻	2	1	2						
Tristel PLC 🚯 🗐	2	1	2	2 🔺						
Ultrasis PLC	2	3	1	2						
Antisoma plc	1	- 4	3	1						
Fusion IP PLC	1	3	2	1						
LIDCO Group PLC	1 🔺	1	4	2						
Vindon Healthcare plc	1	1	1							

As of Feb. 3, 2012. Source: S&P Capital IQ Credit Health Panel. For illustrative purposes only.

CHP provides an overview of the strengths and weaknesses of every company in the group by looking at their most recent fundamental data. The heat map shows the best performing companies of the group in green, and the underperformers in red. CHP scores each company based on their operational, solvency, and liquidity metrics, and provides an aggregate score.

Asterand PLC is the worst performer and Vindon Healthcare PLC is the best performer of the 17 companies, as seen in figure 2. Cyprotex PLC is ranked among the below average companies, and Mediwatch PLC is ranked just above Cyprotex PLC. Although both companies lag the group average, we used these companies as examples of how we can use client data, cash conversion cycle, and probability of default (PD) to forecast which companies are more likely to outperform their peers in the future.

Comparing With The Sector

We also analyzed our group of companies by comparing them with the overall sector. In order to facilitate this comparison, we created an alternate peer group consisting of all health care companies in the U.K. and compared the sector average with that of our smaller peer group.

The 17 companies in our peer group have underperformed the U.K. health care sector over the past three years in terms of the recurring earnings to total assets ratio (see chart 1). In addition, our group has had a weaker relationship with its suppliers and customers, with lower payables/receivables than the industry in 2011 and 2010 (see chart 2).

Chart 1



Chart 2



Moving To An Absolute Analysis

Users can also take a closer look at the quality of a company's client base to assess counterparty risk. Companies that have reported well-known and established companies as business partners are more likely to have a higher quality of receivables and stronger potential of business continuity.

For example, Cyprotex PLC appears to have very strong clientele, as a majority of reported customers have investment-grade ratings (see table 1). Furthermore, Cyprotex's cash conversion cycle metric reveals that the company has enough cash on hand for 39 days in between the sale of its product and its receivables.

Table 1

Reported customers	Rating	Sales outstanding	Inventory outstanding	Payables outstanding	Cash conversion cycle
Gentronix Ltd.		N/A	N/A	N/A	N/A
Johnson & Johnson	AAA	N/A	N/A	N/A	N/A
U.S. Environmental Protection Agency		N/A	N/A	N/A	N/A
AstraZeneca PLC	AA-	70	106	128	47
Solvay S.A.	BBB+	89	65	91	64
Takeda Pharmaceutical Co. Ltd.	AA-	86	163	98	150
Sunovion Pharmaceuticals Inc.		41	182	62	161
Roche Holding AG	AA-	78	158	52	183
Novo Nordisk A/S	A+	49	277	92	235

Table 1

Cyprotex PLC Reported Customers Key Statistics (cont.)									
Cyprotex PLC	44	88	68	64					

As of Feb. 3, 2012. Source: S&P Capital IO. For illustrative purposes only. Sales outstanding and payables outstanding, inventory outstanding, and cash conversion cycles are represented in days. Information is provided for 2011. Ratings are Standard & Poor's Ratings Services' credit ratings as of Feb. 3, 2012.

A similar analysis for Mediwatch PLC paints a very different picture. Most of the company's clients are unrated, with the exception of Alere Inc. ('B+'), and it has a cash conversion cycle of 58 days (see table 2). These weaker operational metrics could result in short- and long-term liquidity needs that could hurt Mediwatch's creditworthiness. In addition, the company has a limited client list.

Table 2

Mediwatch PLC Reported Customers Key Statistics										
Reported customers	Rating	Sales outstanding	Inventory outstanding	Payables outstanding	Cash conversion cycle					
EBNeuro SpA		N/A	N/A	N/A	N/A					
General Services Administration		N/A	N/A	N/A	N/A					
S&V Samford Instruments Ltd.		N/A	N/A	N/A	N/A					
Alere Inc.	B+	68	93	43	118					
Mediwatch PLC		61	86	90	58					

As of Feb. 3, 2012. Source: S&P Capital IQ. For illustrative purposes only. Sales outstanding and payables outstanding, inventory outstanding, and cash conversion cycles are represented in days. Information is provided for 2011. Ratings are Standard & Poor's Ratings Services' credit ratings as of Feb. 3, 2012.

Probability Of Default Models

We also used a structural PD model to better understand how a company's share price performance can, in some ways, act as a proxy for credit quality. We plotted the structural PD for the 17 companies in our peer group and separated the values into four quartiles (see chart 3). In addition, we demonstrate how the three companies we analyzed, namely Asterand, Mediwatch, and Cyprotex, have specifically moved over that time. For example, since mid 2010, the PD on Asterand has signaled deterioration in credit quality by migrating from the top quartile to the worst PD of all the companies.



Chart 3

Given that structural PDs are market driven, it's generally good practice to look at the trends over the past few months to avoid any outliers derived from one highly volatile trading day. In this case, Asterand's declining equity market performance has pushed its PD upward. As demonstrated by that performance, we show that even among below average companies, investors should consider many differences when examining what drives company performance. From a counterparty risk perspective, Cyprotex demonstrates a very strong client base and very limited short-term liquidity constraints (with diminishing levels of debt in the long term). However, the PD on Mediwatch has been consistently increasing, evidencing a possible deterioration in creditworthiness. Through the equity market, we derived a credit indicator (the market-driven PD), which demonstrated that Asterand has been going through a period of high volatility and declining stock prices, making its PD the worst outlier of the group. Cyprotex PLC has seen volatility on its share price, which caused a spike in its PD. But since the latest earnings results for fourth-quarter 2011 on March 22, 2012, Cyprotex's share price has soared to its highest level in the last 12 months, contributing to an improvement in its PD.

Conclusion

The need for a transparent and consistent framework that allows users to form a holistic assessment of a company's performance and financial health being is crucial. A peer comparison framework helps assess the quality of an entity against other companies within its sector or industry. Fundamental metrics available on the Global Credit Portal will show companies' historical performance, developing a stronger understanding of a company's liquidity ratios. The quality of a

company's receivables can also shed light on future risks. Our analysis of U.K. health care companies demonstrates how peers with dissimilar customer bases can lead to very different exposures for a potential counterparty. Lastly, we can monitor exposures using absolute quantitative models that can produce a forward-looking PD. Since our initial review on Feb. 3, 2012, we revisited our peer group to see if any changes had occurred since the latest earnings releases (see figure 3).

Figure 3

		Cre	dit Health Pane	l Company Sco	pres
Company Name		Overall	Operational	Solvency	Liquidity
Asterand PLC		4	1	4	4
Avia Health Informatics Public Limited Company		4	4	2 🔺	4
EDEN RESEARCH PLC (1)		4	3	4	4
Healthcare Locums PLC		4	3	3 🕶	4
Proteome Sciences PLC	1	4	4	4	3
Mediwatch PLC	1	3	1 🔺	1	4
Oxford Pharmascience Limited	1		4	2 🔺	1 🔺
Scientific Digital Imaging plc	1	3	2	3 🔻	3
Ultrasis PLC		3	4 🔻	4 🔻	2
Fusion IP PLC	1	2	3	4 🔻	1
LiDCO Group PLC		2 🔻	2	3 🔺	2 🔻
Physiomics PLC	1	2	4	2	1
Source BioScience plc		2 🔻	2	3 🔻	2
Antisoma plc		1 🔺	3 🔺	2 🔺	1
Cyprotex PLC		1	1	1	3
Tristel PLC		1	2 🔻	1	2
Vindon Healthcare plc	1	1 🔺	1	1	

As of April 13, 2012. Source: S&P Capital IQ Credit Health Panel. For illustrative purposes only.

All 17 of these companies reported fourth-quarter 2011 results by April 13, 2012.

Using new information about the latest financial statements, we found that Cyprotex's ratios have significantly improved, placing it in the top quartile, while Mediwatch PLC has replaced Cyprotex as the lowest ranked company among companies in the below average quartile.

Getting Behind The Data

On the Global Credit Portal, we combine the solutions we used in this analysis under the Credit Health Panel, the relative analysis tool. Users can access the Credit Health Panel by clicking on Analytics, Tools & Data, then Fundamental Peer Analysis, and finally Credit Health Panel (see figures 4 and 5).

Figure 4: Accessing Credit Health Panel in the Global Credit Portal

STANDARD	Global (Credit Portal	Entity & Research (Title	e)	✓ Search			
POOR'S	Groward	rourt rortu			Advanced Sea	arch ▶		
	PageOne®	Browse by Sector	Markets & Valuations	Criteria	Portfolio View	Analytics, Tools & Data	Products & Services	S&P Global
ageOne®						Default & Recovery Statistics	<u>۲</u>	
TOP STORIES						Fundamental Peer Analysis	Credit Health Panel	
Featured Antisland					Tool and Art	Models & Scoring		
Featured Articles				inter inter	ore Featured Arti	Structured Finance		

As of April 13, 2012. Source: S&P Capital IQ. For illustrative purposes only.

Figure 5: Credit Health Panel Example

Asterand Pic Total Companies: 7												
🚺 Top 🔄 Above Average 🚺 Below Average	🖪 Botton	n ≜j v Sco	ne Change									Scores (
		Cre	edit Health Panel	al Company Sor	pres			Foreign				
Company Name		Overall	Operational	Solvency	Liquidity	LTM Period Ending	Financials Updated	Long Term Rating	CreditModel Score	Probability of Default		GICS Description
Amylin Pharmaceuticals, Inc.	0	4		- 4	3	30-Sep-2011	25-Nov-2011		b	0.2391%	United States	Biotechnology
Eisai Co. Ltd.	0	4	2	- 4	4	30-Sep-2011	26-Nov-2011	NR	ð-	0.0076%	Japan	Pharmaceuticals
Bristol-Myers Squibb Co.	0	3	1	2		30-Sep-2011	24-Nov-2011	A+	88	0.0022%	United States	Pharmaceuticals
Dainippon Sumitomo Pharma Co., Ltd.	0	3	4	1		30-Sep-2011	05-Dec-2011		8	0.0192%	Japan	Pharmaceuticals
Abcam plc	0	2	2	3	2	30-Jun-2011	27-Nov-2011			0.0157%	United Kingdom	Biotechnology
Compugen Ltd. 🚯	0	2	3			31-Dec-2010	28-Nov-2011				Israel	Life Sciences Tools & Services
Ono Pharmaceutical Co. Ltd.	0	1	3	2	1	30-Sep-2011	25-Nov-2011	NR	88-	0.0089%	Japan	Pharmaceuticals

As of April 13, 2012. Source: S&P Capital IQ. For illustrative purposes only.

Structural PD Model

The Global Markets Intelligence Structural PD Model provides PD values for all North American financials and non-North American companies. The model is based on the Merton Distance to default calculation. The Merton model assumes that a company has a certain amount of zero-coupon debt that will become due at a future time. The company defaults if the value of its assets is less than the promised debt repayment at such future time. The equity of the company is a European call option on the assets of the company with maturity at the future date and a strike price equal to the face value of the debt. The model takes three company-specific inputs: the equity spot price, the equity volatility (which is transformed into asset volatility), and the debt/share.

Structural PD

www.globalcreditportal.com/ratingsdirect/html/pdf/SP_Structural_PD.pdf

Copyright © 2012 by Standard & Poor's Financial Services LLC (S&P), a subsidiary of The McGraw-Hill Companies, Inc. All rights reserved. This report was prepared by the S&P Capital IQ Solutions Architect group. This group is analytically and editorially separate and independent from all other analytical groups within Standard & Poor's, including Standard & Poor's Ratings Services.

Copyright © 2012 by Standard & Poor's Financial Services LLC. All rights reserved.

This report was prepared by the S&P Capital IQ Global Markets Intelligence group, formerly known as the Global Markets Intelligence research group. This group is analytically and editorially independent from any other analytical group at S&P.

No content (including ratings, credit-related analyses and data, model, software or other application or output therefrom) or any part thereof (Content) may be modified, reverse engineered, reproduced or distributed in any form by any means, or stored in a database or retrieval system, without the prior written permission of Standard & Poor's Financial Services LLC or its affiliates (collectively, S&P). The Content shall not be used for any unlawful or unauthorized purposes. S&P and any third-party providers, as well as their directors, officers, shareholders, employees or agents (collectively S&P Parties) do not guarantee the accuracy, completeness, timeliness or availability of the Content. S&P Parties are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, for the results obtained from the use of the Content, or for the security or maintenance of any data input by the user. The Content is provided on an "as is" basis. S&P PARTIES DISCLAIM ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE CONTENT'S FUNCTIONING WILL BE UNINTERRUPTED, OR THAT THE CONTENT WILL OPERATE WITH ANY SOFTWARE OR HARDWARE CONFIGURATION. In no event shall S&P Parties be liable to any party for any direct, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs or losses caused by negligence) in connection with any use of the Content even if advised of the possibility of such damages.

Credit-related and other analyses, including ratings, and statements in the Content are statements of opinion as of the date they are expressed and not statements of fact. S&P's opinions, analyses, and rating acknowledgment decisions (described below) are not recommendations to purchase, hold, or sell any securities or to make any investment decisions, and do not address the suitability of any security. S&P assumes no obligation to update the Content following publication in any form or format. The Content should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions. S&P does not act as a fiduciary or an investment advisor except where registered as such. While S&P has obtained information from sources it believes to be reliable, S&P does not perform an audit and undertakes no duty of due diligence or independent verification of any information it receives.

To the extent that regulatory authorities allow a rating agency to acknowledge in one jurisdiction a rating issued in another jurisdiction for certain regulatory purposes, S&P reserves the right to assign, withdraw, or suspend such acknowledgement at any time and in its sole discretion. S&P Parties disclaim any duty whatsoever arising out of the assignment, withdrawal, or suspension of an acknowledgment as well as any liability for any damage alleged to have been suffered on account thereof.

S&P keeps certain activities of its business units separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain business units of S&P may have information that is not available to other S&P business units. S&P has established policies and procedures to maintain the confidentiality of certain nonpublic information received in connection with each analytical process.

S&P may receive compensation for its ratings and certain analyses, normally from issuers or underwriters of securities or from obligors. S&P reserves the right to disseminate its opinions and analyses. S&P's public ratings and analyses are made available on its Web sites, www.standardandpoors.com (free of charge), and www.ratingsdirect.com and www.globalcreditportal.com (subscription), and may be distributed through other means, including via S&P publications and third-party redistributors. Additional information about our ratings fees is available at www.standardandpoors.com/usratingsfees.

The **McGraw**·Hill Companies