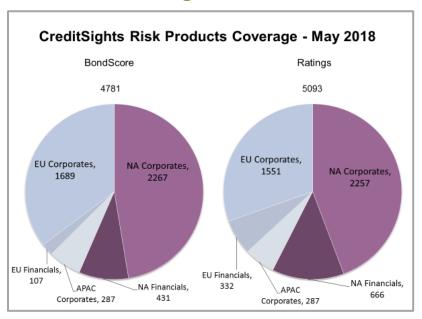
CreditSights Risk Products produces **medium-term ratings** and short-term default measures and is an excellent complement to our fundamental credit research. **Website delivery** provides an efficient screening and credit risk surveillance tool. **Regular commentary** from our fundamental analyst team is also featured.

### **Risk Products: Active Coverage**



## Risk Products: Outputs and Interpretation

- 1-year forward PD (probability of default) (known as "Credit Risk Estimate" or "CRE"). Identify short-term default risks, rapid changes in a company's credit profile and short-term relative value opportunities.
- Medium-term credit rating ("CreditSights Rating" or "CSR"). Non-financial CSRs are based on a cumulative 5-yr PD which is mapped to one of 22 ratings buckets. The CSR for financial companies is based on historical ratings. Address potential ratings migration and standalone medium-term credit risk
- **CRE-based Credit Risk Level ("CRL")** allows for easy interpretation of a company's CRE. Provided in five buckets from very low to very high.
- "CSR Trend" indicator highlights directional change in a company's CSR.
- CRE-based Credit Risk Trend ("CRT") indicator highlights improvement or deterioration in a company's CRE.
- 3-month CreditSights Rating (CSR) Outlook alerts you to those companies that may see a CSR upgrade or downgrade soon.
- Input calculator allows users to change the input ratios used in a company's CRE, CRL and CSR estimation to reflect any anticipated scenario. Reflect future expectations for a company's fundamental and equity market profiles.
- New private company CREs for over 150 companies, along with the ability to generate Ratings and CREs for private companies using the input calculator and a new bulk download template.
- Easy ability to track week-to-week changes/updates in CRLs, CSRs, analyst recommendations and CreditSights analyst ratings comments with custom e-mail alerts.

The Risk Products section of CreditSights' website is the best place to view CreditSights Risk Products output. Log in at <a href="https://www.creditsights.com">www.creditsights.com</a> and follow the "Risk Products" link on the top navigation bar.

### **Website: Individual Company Analysis**

• Enter a ticker or company name in the box labeled "Search Risk Products" in the upper-right hand corner of any Risk Products page. One can also navigate to a company's page from a portfolio at any time.



#### The "Company View" page provides a table summarizing all key CRE and CSR outputs;



As well as graphical histories of the CRE, CRL, CSR, Fundamental Rating (FR) and Agency Composite Rating (ACR) for up to the past decade.



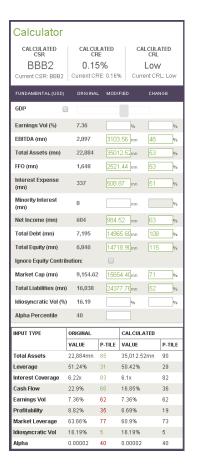
The ability to review charts showing the evolution of the input ratios used in a company's CreditSights Risk Products output and a comparison of current input ratios across up to four comparison companies is also provided (not shown).

A scenario calculator displaying values for all independent input ratios used to calculate a company's CreditSights Rating is provided for every company.

Reflect fundamental and equity market assumptions. Gauge the impact of a potential acquisition (shown right for AEE US buying LNT US).

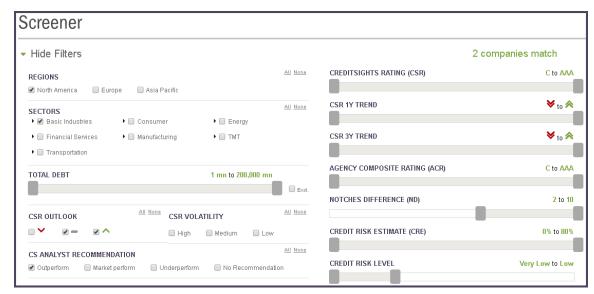
Disable the equity impact on a company's rating to see a company's fundamental-only rating and to derive a fundamental rating for similar private companies.

**Percentile rankings** for both original and calculated values are also provided (shown right for AEE US).



## **Risk Products Website: Portfolio Creation and Analysis**

- Navigate to the Risk Products home page and follow either "create portfolio" button in the "My Portfolios" area of the page to build an equity ticker-driven, static portfolio.
- Follow the "Screener" link to build a criteria-driven dynamic query. A sample screen is below, searching for companies that have an outperform recommendation from CreditSights' analysts, a positive CSR outlook, and a ratings comment from CS analysts.



All column headings in the portfolio view are able to be sorted and the columns displayed are user-driven.
 Export functionality is available, while flat files containing all outputs are also available at an additional charge.



The image above shows the results from the query outlined above for the week of 18 April 2018.

#### Risk Products: Data Visualizer

- The new Data Visualization Spreadsheet (DVS) allow users to take maximum advantage of the
  data which drives our non-financial Risk Products models, as well as the outputs of those
  models, presented in a standard format in numerous tables and charts.
- A historical view of all inputs and outputs is also available, in contrast to the limited historical dataset available in the current flat files.
- A web-based version of the Visualizer will be available sometime in 2018.

Consumer	Consumer Sector: Risk Products Input And Output Metrics Across All Companies And By ACR Tier														
	Fundamental Metrics						Equity Market Metrics			Default Probabilities					
	Total Assets (\$mn)	Leverage	Interest Coverage	Cash Flow	Earnings Volatility	Profitability	Market Leverage	ldiosyncratic Volatility	Alpha Percentile	1-Year	2-Year	3-Year	4-Year	5-Year	
Average	14,151	4.07	13.3x	0.07	7.3%	12.0%	37.9%	19.4%	47	0.67%	1.60%	2.48%	3.50%	4.61%	
Median	5,349	3.75	7.0x	0.06	4.0%	10.6%	35.0%	16.7%	47	0.09%	0.45%	0.90%	1.61%	2.52%	
>=A,A	110,239	2.17	29.1x	0.13	2.4%	19.8%	24.6%	11.8%	50	0.02%	0.08%	0.20%	0.42%	0.66%	
A	29,767	2.10	29.7x	0.14	4.1%	18.9%	21.6%	13.6%	50	0.02%	0.11%	0.26%	0.55%	0.88%	
BBB	15,658	3.22	14.0x	0.10	4.2%	13.6%	32.8%	15.2%	48	0.08%	0.35%	0.71%	1.27%	1.93%	
BB	7,315	4.14	11.3x	0.08	7.4%	11.3%	38.3%	19.6%	47	0.27%	0.93%	1.68%	2.68%	3.83%	
В	5,711	5.40	5.8x	0.04	9.6%	9.1%	50.3%	24.1%	47	0.89%	2.48%	3.97%	5.62%	7.42%	
<=CCC	2,737	6.11	1.8x	0.00	13.5%	6.9%	66.5%	39.1%	29	5.80%	10.95%	14.74%	17.80%	20.73%	

Source: Credit Sights Risk Products

Average and Median Market Leverage, Idiosyncratic Volatility, Apha and Default Probabilities are calculated for public companies only

For each rating tier, numbers shown are averages across the rating tier

# Risk Products: Supported by CreditSights' Analysts

- CreditSights' fundamental analysts played an **integral role in the creation of the fundamental factor models** that underlie Risk Products' methodology.
- CreditSights' fundamental analyst recommendations are also included in CreditSights Risk Products.
- Many analysts making use of the Risk Products calculator to frame a company against a narrow peer group and provide forward expectations for a company's business.

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