



CREDIT SUISSE
RAVENPACK AI
INDEX
FIND CLARITY IN THE CHAOS.

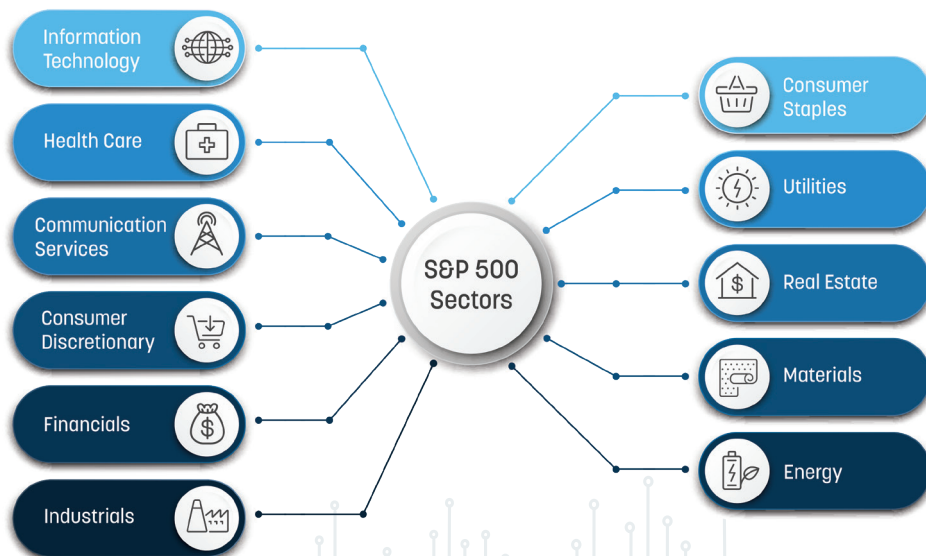
≡ **WHAT IS IT?** ≡

CS RavenPack AI is available on SILAC fixed indexed annuities, finding clarity in the chaos by *analyzing company news from across the world and turning it into actionable data within milliseconds.*

It determines which sectors of the S&P 500® index are attracting the highest sentiment according to its algorithm and allocates accordingly across its components, targeting a 5% volatility level.

≡ **COMPONENTS** ≡

CS RavenPack AI offers equity and bond exposure. The equity component includes 4 of the 11 sectors of the S&P 500® and the bond component includes US Treasury Futures:



≡ UNIQUE FEATURES ≡

US ECONOMY

The S&P 500® may go up or down, but some components of the US economy may be performing better than others.

The equity portion of CS RavenPack AI allocates to the top four sectors of the S&P 500® attracting the highest sentiment according to its algorithm on a quarterly basis.

POWERFUL INSIGHTS FROM NEWS DATA

Unlike most indexes, the equity exposure of CS RavenPack AI aims to *anticipate the future evolution of market prices* for sectors of the S&P 500® based on news sentiment. Its underlying news analytics algorithm systematically analyzes thousands of news articles for each company in the 11 S&P 500® sectors, classifies them and computes scores for each article. The top four sectors are selected according to these scores with a focus on news items about earnings and revenues.

SECTOR ALLOCATION: AS EASY AS 1-2-3

1. Sentiment: CS RavenPack AI chooses the top 4 sectors based on news sentiment scoring for each stock in the S&P 500.

2. Size: The allocation of the selected sectors is then proportional to the size (market capitalization) and concurrently,

3. Stability: The allocation of the selected sectors in inverse proportion to their volatility (risk) such that the less volatile of two selected sectors of the same size would have a higher allocation percentage.

Please refer to important disclosures at the end of the document for more information about the Index, including the use of the term "AI."

≡ INDEX PERFORMANCE ≡

CS RavenPack AI has live data since October 6, 2017 and back-tested performance since September 2, 2005. Historical returns for the last ten years are below:

STOCK TICKER:
CSRPAI5E

**10-YEAR ANNUALIZED
EFFECTIVE RETURN =**
6.92%

Year	Date	CSRPAI5E Close Value	CSRPAI5E Return Since Dec-2010
0	12/31/2010	127.36	n/a
1	12/31/2011	138.28	8.58%
2	12/31/2012	147.33	6.54%
3	12/31/2013	164.92	11.94%
4	12/31/2014	177.68	7.74%
5	12/31/2015	176.56	-0.63%
6	12/31/2016	181.79	2.96%
7	12/31/2017	206.65	13.67%
8	12/31/2018	205.19	-0.71%
9	12/31/2019	230.21	12.20%
10	12/31/2020	248.69	8.03%

EXAMPLE

CREDITING STRATEGY PERFORMANCE

CS RavenPack AI is available with the following crediting strategies:*

ANNUAL POINT-TO-POINT WITH PARTICIPATION RATE

ANNUAL POINT-TO-POINT WITH SPREAD/BOOST

The table below shows back-tested CS RavenPack AI interest credits for the last ten years for each crediting strategy. Please note the adjustments used are only for the purposes of this example and are not intended to represent a specific product. This assumes the adjustment is held level for all 10 years.

Year	Date	CSRPAI5E Return Since Dec-2010	CSRPAI5E Annual Point- to-Point with PR 120%	CSRPAI5E Annual Point- to-Point with Spread 1.00%	CSRPAI5E Annual Point- to-Point with Boost 1.00%	CSRPAI5E Annual Point- to-Point with Boost 2.00%
0	12/31/2010	n/a	n/a	n/a	n/a	n/a
1	12/31/2011	8.58%	10.29%	7.58%	9.58%	10.58%
2	12/31/2012	6.54%	7.85%	5.54%	7.54%	8.54%
3	12/31/2013	11.94%	14.33%	10.94%	12.94%	13.94%
4	12/31/2014	7.74%	9.29%	6.74%	8.74%	9.74%
5	12/31/2015	-0.63%	0.00%	0.00%	0.37%	1.37%
6	12/31/2016	2.96%	3.56%	1.96%	3.96%	4.96%
7	12/31/2017	13.67%	16.41%	12.67%	14.67%	15.67%
8	12/31/2018	-0.71%	0.00%	0.00%	0.29%	1.29%
9	12/31/2019	12.20%	14.63%	11.20%	13.20%	14.20%
10	12/31/2020	8.03%	9.63%	7.03%	9.03%	10.03%

ANNUALIZED EFFECTIVE RETURN = **8.46%** **6.28%** **7.92%** **8.92%**

Stated interest credits are not to be construed as guarantees or estimates of amounts paid in the future.

*Please see the [How Your Annuity Will Grow](#) document for a detailed description of each crediting strategy.

CS RAVENPACK AI

FIND CLARITY IN THE CHAOS.

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