

FactSet Applications for Investment Management Professionals

July 13, 2023

Operating Landscape

Operating Landscape and FactSet – Investment Management

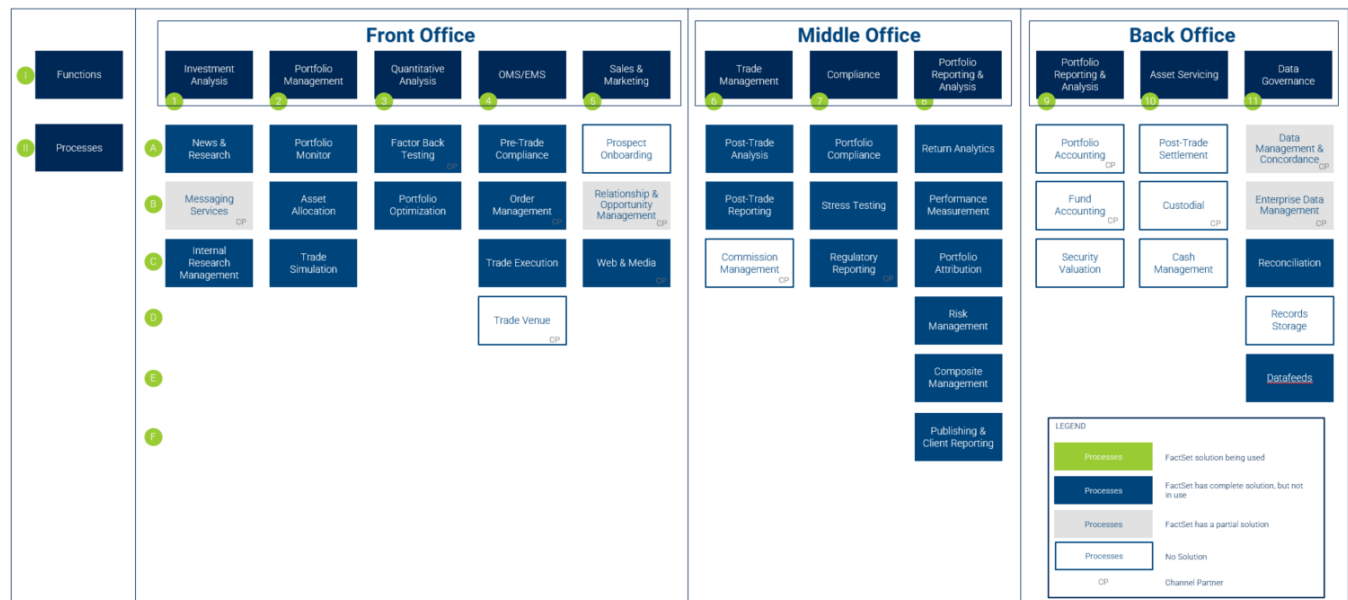


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Equity Workflow / Company Research

Fixed Income Workflow

Multi-Asset Class Workflow

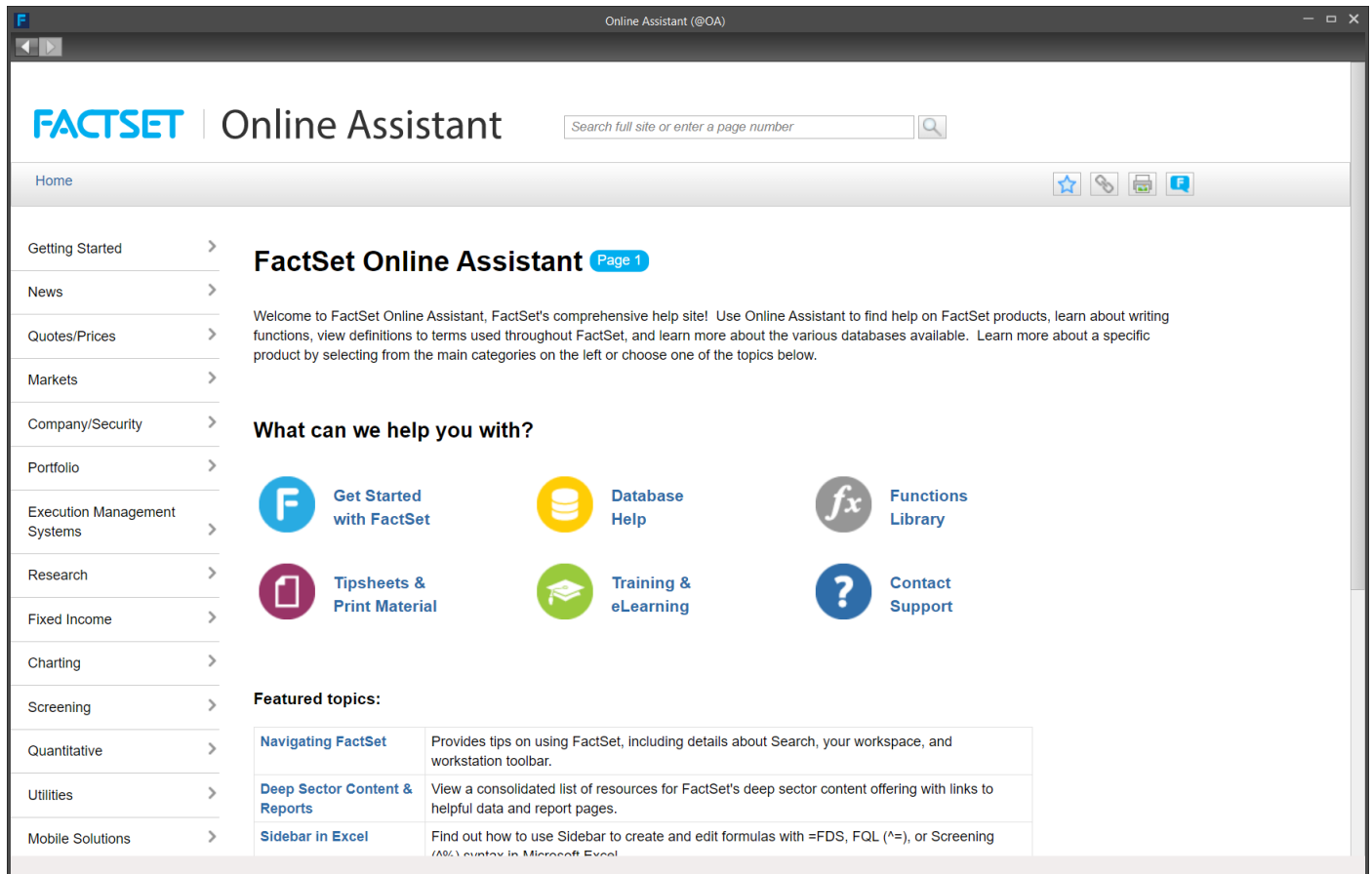
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FACTSET > SEE THE ADVANTAGE

FactSet Online Assistant - @OA

- Use Online Assistant to find help on FactSet products, learn about writing functions, view definitions to terms used throughout FactSet, and learn more about the various databases available
- FactSet 在线助手（[Online Assistant](#)）可以帮您更有效使用 FactSet 应用程序，学习如何编写公式，查看公式定义以及了解其他数据库的相关知识。
- 打开方式：点击终端右上角，选择 Online Assistant



FACTSET | Online Assistant

Search full site or enter a page number

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Mobile Solutions >

FactSet Online Assistant Page 1

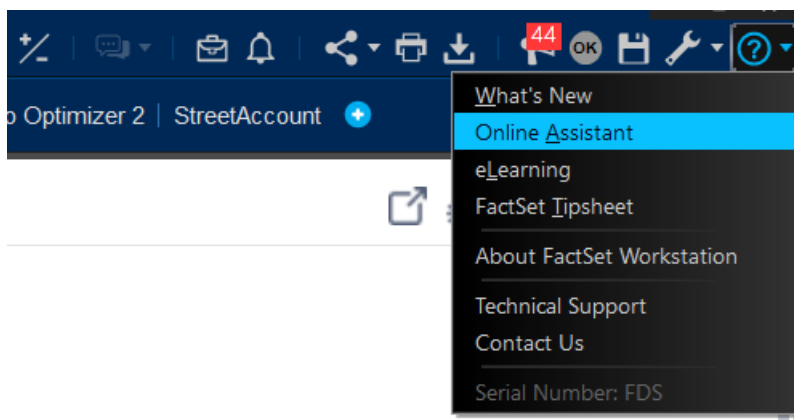
Welcome to FactSet Online Assistant, FactSet's comprehensive help site! Use Online Assistant to find help on FactSet products, learn about writing functions, view definitions to terms used throughout FactSet, and learn more about the various databases available. Learn more about a specific product by selecting from the main categories on the left or choose one of the topics below.

What can we help you with?

-  **Get Started with FactSet**
-  **Database Help**
-  **Functions Library**
-  **Tipsheets & Print Material**
-  **Training & eLearning**
-  **Contact Support**

Featured topics:

Navigating FactSet	Provides tips on using FactSet, including details about Search, your workspace, and workstation toolbar.
Deep Sector Content & Reports	View a consolidated list of resources for FactSet's deep sector content offering with links to helpful data and report pages.
Sidebar in Excel	Find out how to use Sidebar to create and edit formulas with =FDS, FQL (^=), or Screening (A%) syntax in Microsoft Excel.

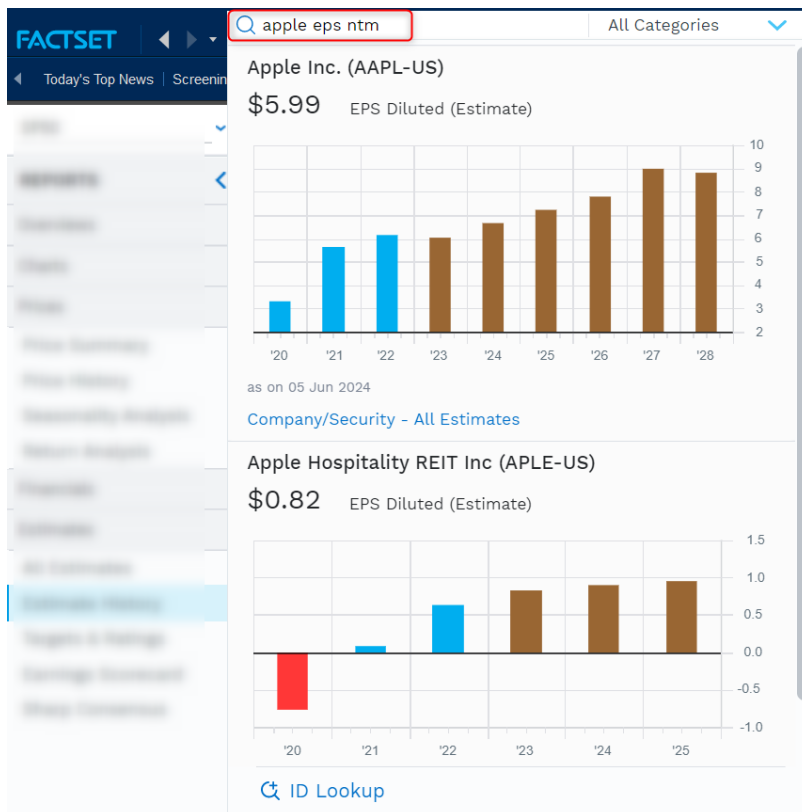


Optimizer 2 | StreetAccount

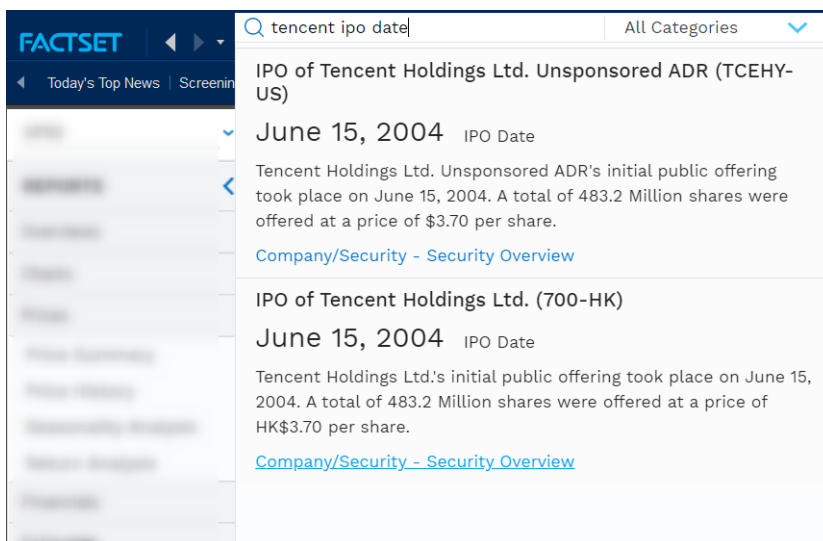
- What's New
- Online Assistant**
- eLearning
- FactSet Tipsheet
- About FactSet Workstation
- Technical Support
- Contact Us
- Serial Number: FDS

FactSet Search

- FactSet Search allows you to easily discover reports and application without any prior knowledge
- To Activate FactSet Search, click the Search FactSet button or press CTRL+SHIFT+F
- FactSet 搜索可以让你轻松找到你需要的报告和应用程序。
- 点击终端上方“Search FactSet”按钮或者使用快捷键 CTRL+SHIFT+F，即可使用 FactSet 搜索。



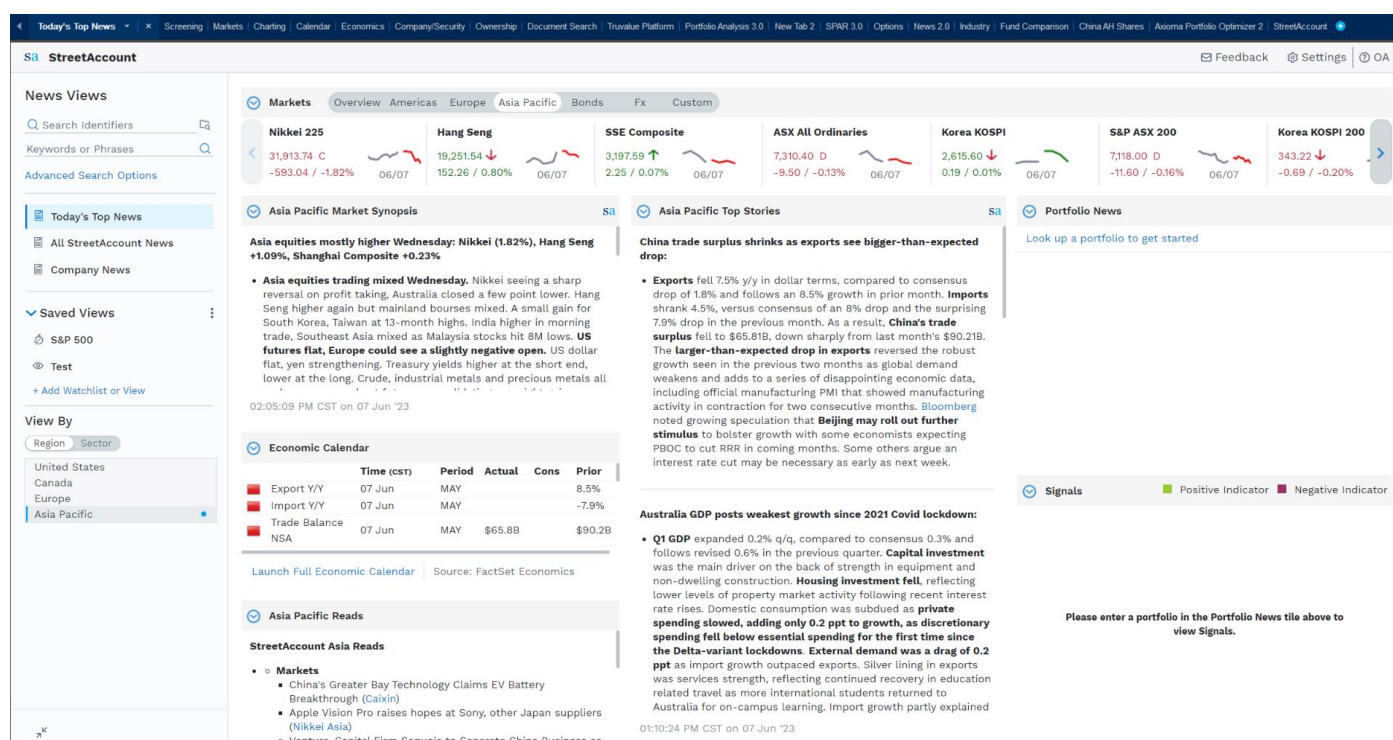
- You can find the answer to some of your common financial data questions using FactSet Search
- FactSet 搜索可以替你解答一些常见金融数据的问题。



1 Investment Analysis (Generating Ideas)

1.1 StreetAccount News – Today's Top News / @NB

- Display easy-to-read, direct bullet points that highlight key facts and important information
- Highlight only significant market and company news
- Links you directly to related stories
- E.g. Market Summary, Top Stories, Portfolio News, etc.
- 以要点形式展示重要的市场信息和新闻，方便读者阅读。
- 重点突出有重大影响的市场和公司新闻。
- 提供相关新闻的原文链接。
- 例子：市场摘要，头条新闻，投资组合相关新闻，等等。



Today's Top News

NewsBoard

Screening

Markets

Charting

Calendar

Economics

Company/Security

Ownership

Document Search

Truvalue Platform

Portfolio Analysis 3.0

New Tab 2

SPAR 3.0

Options

News 2.0

Industry

Fund Comparison

China A/H Shares

Avionia Portfolio Options

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Consumer Cyclical Sector Summary

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Energy Sector Summary

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Healthcare Sector Summary

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Industrials Sector Summary

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Technology Sector Summary

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Australia MarketSummary

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US Week Ahead

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EU Week Ahead

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US Market Summary

As of 2:54pm 7-Jun-2023

StreetAccount Summary - US unusual volume traders

May 26, 2020 4:38:01 PM (GMT)

- StreetAccount reports stocks trading on unusual volume vs full-day 30-day moving average, without immediately obvious company-specific news
 - Up on unusual volume:
 - 702% - **OSMT** (Osmotica Pharmaceuticals \$5.10, +0.63) **+14.0%**
 - 596% - **GNCA** (Genocoe Biosciences \$3.23, +0.42) **+14.8%**
 - 433% - **OVID** (Ovid Therapeutics \$6.47, +0.52) **+10.8%** - hits 52-week high
 - 382% - **NBRV** (Nabriva Therapeutics Plc \$0.89, +0.15) **+19.5%**
 - 335% - **EVOK** (Evoke Pharma \$2.63, +0.25) **+10.5%** - hits 52-week high, to hold annual meeting 27-May
 - 304% - **MDWD** (MediWound Ltd. \$2.09, +0.07) **+3.5%**
 - 270% - **ASPS** (Allsource Portfolio Solutions \$15.20, +2.78) **+22.4%**
 - 178% - **CELH** (Celus Holdings, Inc. \$9.80, +0.51) **+5.0%** - hits 52-week high
 - 148% - **VTVT** (VTV Therapeutics \$2.92, 0.00) **0.0%**
 - 145% - **ESTC** (Elastic N.V. \$85.98, +2.51) **+3.0%** - 7 blocks totaling 589K shares trade
 - 144% - **IMVT** (Immunovant, Inc. \$21.74, +1.73) **+8.0%**
 - 128% - **ATAX** (America First Multifamily Investors \$4.78, +0.42) **+9.5%** - positive financial [blog article](#)
 - Down on unusual volume:
 - 135% - **SBSP** (Strongbridge Biopharma \$3.69, -0.01) **-0.3%** - hits 52-week high, presenting at Solebury Trout conference
 - 129% - **AXLA** (Axcella Health Inc. \$5.83, -0.37) **-6.0%**
- For stocks with no rationale listed, please let us know if you are aware of the reason behind the unusual volume by sending an email to feedback@streetaccount.com

Industries:

Unspecified, Beverages (Non-Alcoholic), Consumer Financial Services, Investment Services, Biotechnology & Drugs, Software & Programming

Related Identifiers:

ASPS-US, ATAX-US, AXLA-US, CELH-US, ESTC-US, EVOK-US, GNCA-US, IMVT-US, MDWD-US, NBRV-US, OVID-US, SBSP-US, VTVT-US, 060970-E

Subjects:

Market Summaries - US, Unusual Volume Movers - US

StreetAccount Summary - Trading higher/lower: US mid-morning

May 26, 2020 3:56:40 PM (GMT)

- Trading Higher:
 - +33.7% **AROX** (argenx \$212.33, +53.29) - trial results
 - +19.0% **SBS** (Cia de Saneamento Basco (SABESP) \$9.24, +1.41)
 - +17.1% **SAVE** (Sport Airlines \$11.87, +1.74)
 - +16.6% **DOYU** (DouYu \$8.06, +1.17) - earnings
 - +16.0% **ADS** (Alliance Data \$48.90, +5.72)
 - +15.3% **CAR** (Avis Budget Group \$19.26, +2.55)
 - +14.3% **CWH** (Camping World \$22.73, +2.85) - RVA April data
 - +13.9% **NCLH** (Norwegian Cruise Line Holdings \$15.86, +1.94)
 - +13.3% **MAXR** (Maxar Technologies, Inc. \$13.70, +1.62)
 - +13.2% **VFF** (Village Farms International \$5.88, +0.59)
 - +13.1% **UAL** (United Airlines Holding \$28.72, +3.34)
 - +13.0% **NVAX** (Novavax \$52.27, +5.99) - initiates phase 1/2 clinical trial of COVID-19 vaccine
 - +12.8% **GES** (Gigamon \$8.60, +1.00)
 - +12.7% **SOGO** (Sogou \$3.34, +0.38)
 - +12.0% **OVID** (Ovid Therapeutics \$6.58, +0.70)
 - +11.7% **ARNC** (Arconic Corp. \$14.38, +1.50)
 - +11.6% **TRIP** (TripAdvisor \$21.15, +2.20)
 - +11.1% **M** (Macy's \$5.79, +0.59) - comments on recent sales trends, debt offering
 - +11.0% **DB** (Deutsche Bank \$8.11, +0.81)
 - +10.9% **LUV** (Southwest Air \$31.95, +3.15) - JBS upgrade
 - +10.9% **NIO** (NIO \$3.04, +0.39)
 - +10.7% **CROX** (Crocs \$29.74, +2.88)
 - +10.5% **YY** (YY \$81.84, +5.84)
 - +10.4% **IBTX** (Independent Bank Group \$34.55, +3.26) - TCBI merger agreement terminated, Raymond James upgrade
 - +10.3% **JBLU** (JetBlue Airways \$10.20, +0.95)

Market Summaries

Top News

Econ/World News

Week Ahead

NewsPaper

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EU Market Summary

As of 2:54pm 7-Jun-2023

StreetAccount Summary - EU Market Recap: FTSE 100 +1.24% to 6067.76, DAX +1.00% to 11504.65, CAC40 +1.46% to 4606.24, STOXX 600 +1.99% to 348.95

May 26, 2020 4:37:34 PM (GMT)

- Synopsis:
 - European equity markets closed higher supported by optimism over economies reopening as well as hopes for a vaccine to fight the coronavirus after Novavax reported it has begun human testing of its vaccine candidate.
 - Ministers for European affairs discussed the progress achieved with the coordination of de-escalation measures as well as an exchange of view on an adjusted long-term EU budget and the accompanying recovery instrument. Elsewhere, Le Monde cited French President Macron as saying France has pledged €85 in support for the auto sector.
 - Amongst macro data, UK May CBI distributive trades survey came in line with consensus whilst German Jun GfK consumer confidence fell short.
 - In central banks, ECB's Villeroy hinted at more easing ahead next week's meeting, while BoE's Haldane said evidence on negative rates and has not yet reached a view. ECB's Financial Stability Review said more severe downturn may put public debt on an unsustainable path.
 - Travel and leisure was the standout gainer on the corporate front as German news agency DPA reported EU plans to lift travel warnings for European countries from 15-Jun. Spain and Germany will also reportedly ease travel restrictions. IAG (IAG LN), EasyJet (EZJ LN) and Air France-KLM (AFR FP) all closed +10% higher. UK pubs and restaurants also outperformed on comments by UK Minister Dave saying pubs, restaurants and bars could have outdoor hospitality but with social distancing.
 - Other corporate news included Apyta (ARTN.SW) closing higher on Q3 revenue whilst Fraport (FRA.GR) reported May traffic and Encavis (CAP.GR) released latest earnings. In the automotive industry, Renault (RNO.FP) has reportedly abandoned merger plans with Nissan Motor (7201.JP) to fix alliance. In the UK, Foxtons Group (FOXT.LN) released a Covid-19 update and Aston Martin Lagonda (AML.LN) appointed a new CEO.
 - In M&A, Sanofi (SAN.FP) announced last night that it will sell the majority of its 20.6% stake in Regeneron (REGN), in a deal worth around - \$10B whilst Bernard Arnault and Vincent Bollore have both raised stakes in Lagardere (MIB.FP).
- Digest:
 - Sectors - STOXX Europe 600:
 - Outperformers:

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Asia Market Summary

As of 2:54pm 7-Jun-2023

StreetAccount Summary - Asian Market Recap: Nikkei +2.55%, Hang Seng +1.88%, Shanghai Composite +1.01% as of 04:10 ET

May 26, 2020 9:14:15 AM (GMT)

- Synopsis:
 - Asia equities finished sharply higher on Tuesday. Australia, Japan rallied, followed by strong gains in China, South Korea and Taiwan. S&P futures were also up sharply. US Treasury yields climbed with the curve steepening. The dollar was mostly softer with the yen lagging and yuan marginally firmer. Crude oil rose sharply, while gold retreated.
 - Better risk appetite was attributed mostly to reopening progress (particularly in Japan and Australia) and reinforced by vaccine hopes after Novavax announced it started human trials. However, Hong Kong tensions remain elevated and China reassured the city's judicial independence will remain under the new national security law. China condemned the US for blacklisting dozens of its firms, and has accused Washington of stirring up a new cold war while warning against challenging its Taiwan "red line".
 - In macro news, PBOC Governor Yi Gang said China will strengthen policy adjustments and guide loan rates lower. Echoes latest guidance out of the NPC government work report. Some follow-through concerns spanned by Monday's weakest PBOC yuan fixing since 2008, raising capital outflow risks. Singapore GDP contracted sharply as the government prepares to unveil another stimulus package. Australian Prime Minister Morrison outlined a reform-driven agenda to kickstart economy.
- Digest:
 - Pushback on Hong Kong security law criticisms
 - Hong Kong leader Carrie Lam defended China's moves to impose sweeping national security laws in the territory amid renewed protests and growing international concern over what it would mean for the city's future autonomy ([Bloomberg](#)). Lam argued that local residents support the planned legislation and said it was untrue that it would ban street protests or calls for her dismissal, and pledged that Hong Kong's freedoms would be preserved. Echoes comments from Beijing HK affairs commissioner Xie Feng, who clarified the legislation will not change the one country, two systems policy. Hong Kong's capitalist system, high degree of autonomy, the legal system in Hong Kong, or affect the independent judicial power ([Bloomberg](#)).
 - China to strengthen policy adjustments, guide loan rates lower
 - Reuters cited PBOC Governor Yi Gang reiterating the central bank's commitment to strengthen its economic policy and counter-cyclical adjustments and continue to push to lower interest rates on loans. Added that China's economic fundamentals are unchanged despite many uncertainties and repeated that prudent monetary policy will be more flexible. Comments reinforce

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1.2 FactSet Research - @RES

- Research Reports

Include an introduction to this tab which is essentially for pulling out research reports of different brokers (subject to entitlements)

- Detailed and Efficient Searching

The report provides Keyword Hit Rates sorting, Comprehensive Grouping, Filter by Contributors/Analysts, Customized Universe (Company, Index, Portfolio, Market, etc.), Download Multiple Documents to One or Separate Files

- 研报

你可以通过本报告提取来自不同券商的研究报告（取决于你的权限）。

- 高效检索

本报告提供个性化的查看方式，您可以根据关键词出现次数由高到低排序，有详尽的分组，可通过作者/分析员筛选，个人化的样本选择（公司，指数，投资组合，市场选择等等），可下载多个文件到一个或多个文档。

Today's Top News | NewsBoard | Screening | Markets | Charting | Calendar | Economics | Company/Security | Ownership | **Document Search** | Truvalue Platform | Portfolio Analysis 3.0 | New Tab 2 | SPAR 3.0 | Options | News 2.0 | Industry | Fund Comparison | China A/H Shares | Astima Portfolio Optimizer 2 | StreetAc

SMART SEARCH | FILINGS | **RESEARCH** | TRANSCRIPTS & SLIDES | NOTES

Identifier(s) | Primary | All Company Research | Today | **upgrade** | Contributor / Analyst | More | Readership Report

Date/Time	Identifier	Headline (255)	Hits	Pgs
03:33 AM	TMST	Mellus TKR Model	153	12
02:52 PM	TERN, A...	TERN: Initiate Buy, PT \$18 - Pat...	78	142
02:58 PM	RFX	LIBERUM: Ramsdens Holdings"...	74	50
02:01 PM	WISE	Davy - Wise - "Scale economies"	66	80
01:38 PM	DOCS, A...	Excellent Technology, Strong Le...	54	8
02:00 PM	ABI, AC...	Benelux Conference Feedback ...	52	60
02:31 PM	ORK	Orkla (Hold, TP: NOK80.00) - H...	37	37
02:05 PM	FNM, 06...	FNM Group - MOTORWAYS UP...	35	14
02:13 PM	OHT	Ocean Harvest Technology - Init...	33	34
02:34 PM	NICA	Nanologica: Reinitiating coverag...	29	26
02:15 PM	7200	bia >> Ara	22	20
02:54 PM	FRO, HA...	Shipping and Transportation - T...	20	46
02:53 PM	DFDS	DFDS - Resuming coverage at ...	20	37
02:40 PM	6963	Rohm (6963) >> Deep dive: Aut...	19	29
02:24 PM	BN4	Ixom - Australian & New Zealan...	19	15
02:05 PM	STEP	Barclays Americas Morning Res...	19	26
02:46 PM	2160, 23...	Asia Healthcare Monthly: Japan ...	17	68
02:38 PM	ETL, MB...	Telco Chatter >> 7 June: Huawe...	16	11
02:48 PM	4218	Nichiban (4218 JP) (Buy) - Fore...	15	11
02:43 PM	FME	Morningstar Fresenius Medical...	15	26
02:43 PM	FME	Morningstar Fresenius Medical...	15	26
02:15 PM	SCYR	Sacyr - Road to a pure Infra play...	15	25
02:42 PM	CNA, EO...	BERNSTEIN Utilities Daily - Jun...	14	16
02:39 PM	DANSKE	Danske Bank >> Aiming high for...	14	10
02:33 PM	FME	Fresenius Medical Care Aiming f...	14	21

Results for 'upgrade'

and Vietnam (-1.7%yoy). Meanwhile, Philippines recorded a significant increase in feedmill sales volume (+102.5%yoy) mainly attributed to the **higher** feedmill production capacity (+43.8%yoy). As such, the group production capacity increased by +3.1%yoy 1.07m mt 1QFY23. However, the group utilization

and FY25F by -30.3% to reflect our cautious outlook. This was after factoring in weaker sales volume performance from the Indonesia operation, and **higher** animal feed, labor and finance costs. Downgrade to NEUTRAL (from BUY) with a lower TP of RMO.50. Our TP is based on a FY24F PER of 8.3x (above it)

Softer 1QFY23 sales volume in Feedmill segment. The feedmill division sales volume declined by -1.6%yoy to 648.4kmt in 1QFY23. Among the countries within the segment, Malaysia witnessed the largest decline of -7.3%yoy, followed by Indonesia (-3.8%yoy), and Vietnam (-1.7%yoy). Meanwhile, Philippines recorded a significant increase in feedmill sales volume (+102.5%yoy) mainly attributed to the **higher** feedmill production capacity (+43.8%yoy). As such, the group production capacity increased by +3.1%yoy 1.07m mt 1QFY23. However, the group utilization rate reduced from 63.3% in 1QFY22 to 60.4% in 1QFY23. Overall, Indonesia remained the top producer in the group's feedmill

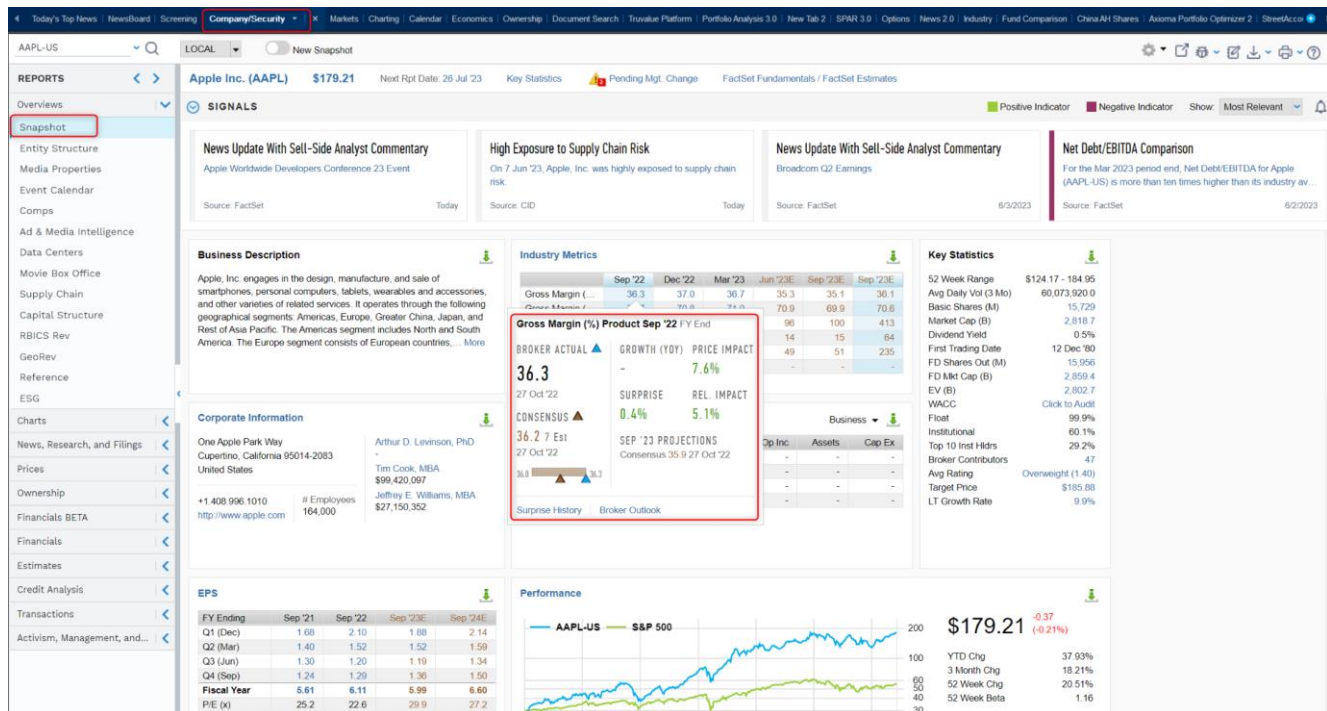
Price performance (%)

	Absolute	Relative
1 month	-5.6	-3.4
3 months	-3.8	9.2
12 months	-2.9	9.1

1.3 Security Analysis - Company/Security

1.3.1 Company Snapshot & Financials (FactSet Fundamentals)

- Transparency**
Provides source document linking to provide transparency back to the original filing. Data points such as DCS, Share Buybacks, and Industry Metrics allow for better analysis
- Timelines & Global Coverage**
Updates Intraday, 100 key items are updated within an hour of the release. Covers 81,905 companies, including inactive companies, with over 3,000 data items available
- 本报告旨在提供股票、指数、债券、基金等各种证券产品的相关信息。
- 数据透明度**
 所有蓝色的数字都自带超链接，您可以点开查看数据计算逻辑以及数据源文件。
- 更新频率和覆盖广度**
 该报告会即日更新，100 个关键数据在发布后一小时内会获得更新。覆盖来自 81,905 个公司的三千多个数据项目（包括私营公司）。



FACTSET SEE THE ADVANTAGE

Today's Top News Company/Security Screening Charting Ownership Industry Document Search Economics Markets Portfolio Analysis 3.0 Portfolio List Manager 2 Calendar

AAPL-US Fiscal Years 10 Periods Restated USD Compare to SP50

REPORTS Overview Snapshot Entity Structure Media Properties Event Calendar Comps Ad & Media Intelligence Data Centers Movie Box Office Supply Chain Capital Structure RBICS Rev GeoRev Reference ESG Charts News, Research, and Filin... Prices Ownership Financials BETA Key Items Income Statement Balance Sheet Cash Flow Use of Cash Segment History Ratio Analysis Reported Share Analysis

Apple Inc. (AAPL) \$177.82 Next Rpt Date: 26 Jul '23 Key Statistics Multiple Alerts FactSet Fundamentals

Standardized Search for an item

Summary Profitability Asset Quality (x) DuPont Analysis Liquidity/Coverage (x) Valuation

Summary

	SEP '22	SEP '21	SEP '20	SEP '19	SEP '18	SEP '17	SEP '16	SEP '15	SEP '14	SEP '13
Income Statement										
✓ Sales	394,328,000	365,817,000	274,150,000	259,968,000	265,809,000	228,572,000	214,226,000	231,283,000	183,244,000	170,866,000
Gr: Sales										
Gr: Apple Inc. All Values in thousands of USD as of 24-Sep-2022										
Gr: (Net Sales)	394,328,000.00									
Gr: Net Sales Or Revenues	394,328,000.00									
EBI										
Gr: Formula: FF_SALES										
Gr: Source: Factset Fundamentals										
EBITDA Margin (%)	33.10	32.87	27.87							
Net Income	99,803,000	94,680,000	57,411,000							
Growth (%)	5.41	64.92	3.90							
Net Margin	25.31	25.88	20.94							
Balance Sheet										
✓ Cash & Short-Term Investments	48,304,000	62,639,000	90,979,000							
Growth (%)	-22.89	-31.15	-9.55							
Cash & ST Investments / Total As...	13.69	17.85	28.09							
✓ Total Assets	352,755,000	351,002,000	323,888,000							
Growth (%)	0.50	8.37	-4.32							
Asset Turnover	1.12	1.08	0.83							
Return on Assets	28.36	28.06	17.33							
✓ Total Debt	132,480,000	136,522,000	122,278,000							
Growth (%)	-2.96	11.65	13.17							
Total Debt / Total Assets (%)	37.56	38.89	37.75							
Total Debt / Total Equity (%)	261.45	216.39	187.14							
✓ Net Debt	84,176,000	73,883,000	31,299,000							
Growth (%)	13.93	136.06	319.16							
				-5.62	-1.03	32.92	35.01	82.64	108.11	-
				31.92	31.30	30.82	27.05	22.19	15.22	8.19
				119.40	106.85	86.30	67.86	54.01	31.64	13.73
				7,467,000	48,182,000	41,499,000	19,877,000	22,861,000	10,218,000	-23,586,000
				-84.50	16.10	108.78	-13.05	123.73	-	19.03

All figures in thousands of U.S. Dollar except labeled items.

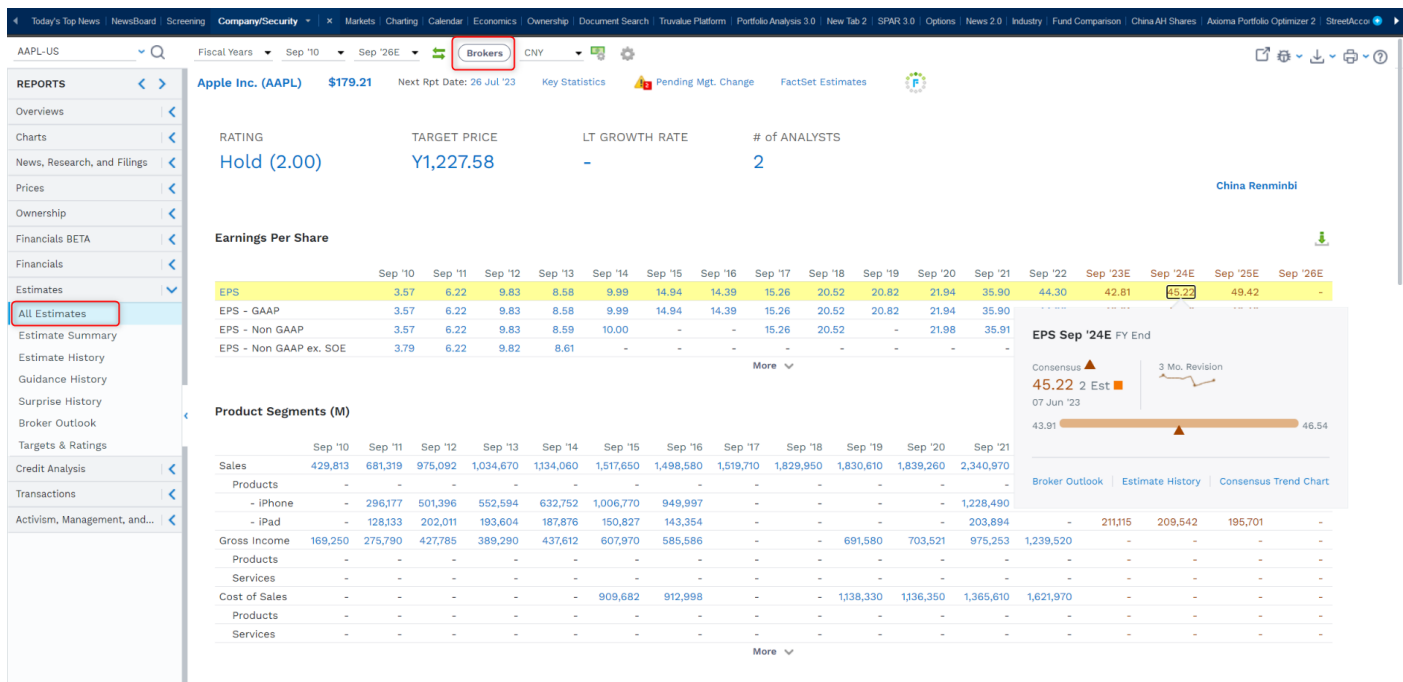
Entity: Apple Inc., Filing Type: 10-K, Ticker: AAPL, End Date: 2022-09-24

Consolidated Statements of Operations

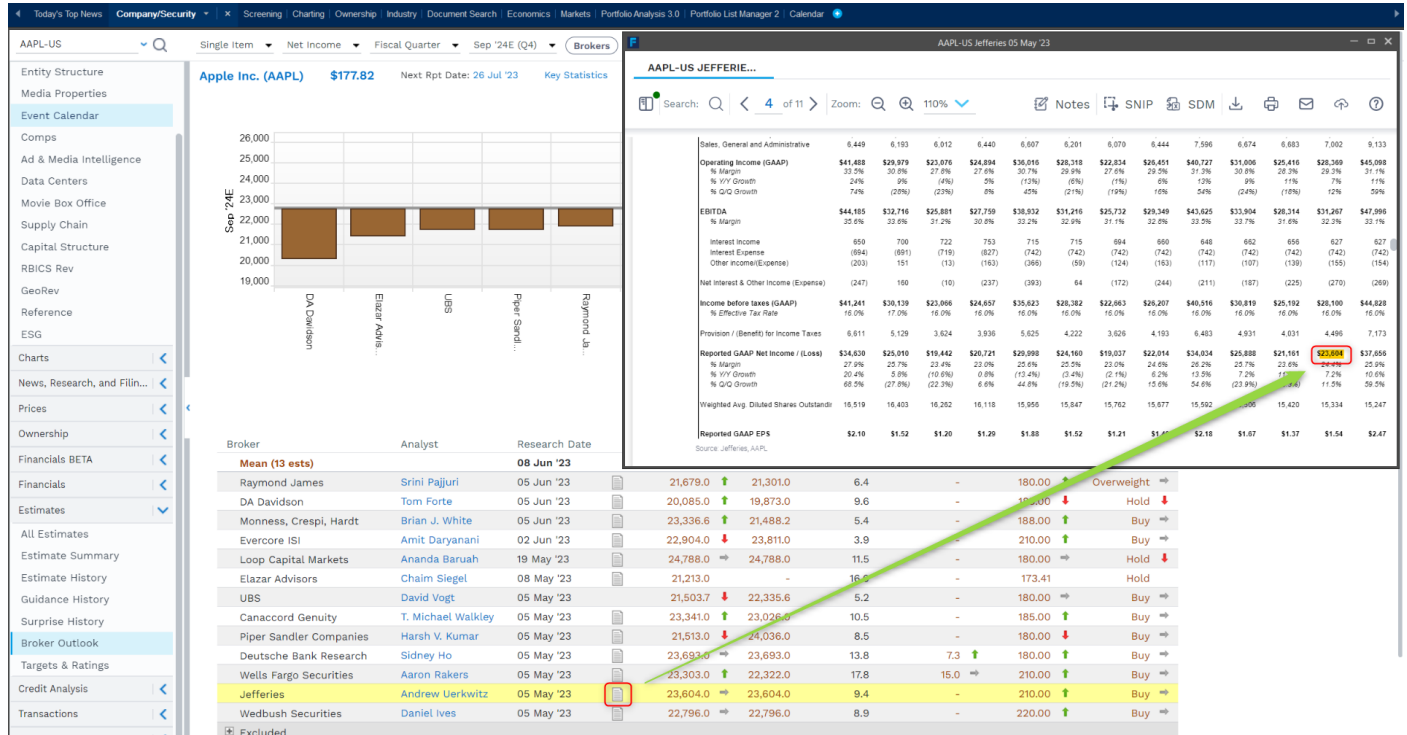
	12 Months Ended	12 Months Ended	12 Months Ended
	Sep. 24, 2022	Sep. 25, 2021	Sep. 26, 2020
Net sales	\$ 394,328	\$ 365,817	\$ 274,515
Cost of sales	223,546	212,881	169,559
Gross margin	170,782	152,936	104,956
Operating expenses:			
Research and development	26,251	21,914	18,752
Selling, general and administrative	25,094	21,973	19,816
Total operating expenses	51,345	43,887	38,568
Operating income	119,437	109,049	66,388
Other income(expense), net	(348)	258	803
Income before provision for income taxes	119,089	109,307	67,191
Provision for income taxes	19,300	14,527	9,680
Net income	\$ 99,803	\$ 94,680	\$ 57,411
Earnings per share:			
Basic (in dollars per share)	\$ 6.15	\$ 5.67	\$ 3.31

1.3.2 All Estimates (FactSet Estimates)

- **Deep Data Set**
Over 18,000 public companies in over 90 countries covered including industry metrics and business segments details
- **Transparency**
Click-Through available for actuals, guidance, and estimates to press releases allowing for greater transparency of data
- **Customization**
Gives users the ability to create lists of favorite brokers and select preferences such as research and input date. We also offer time-saving reports such as the Earnings Scorecard
- **覆盖广度**
覆盖超过 18,000 个公司和 90 个国家，当中包括独有的行业指标及业务分类项目。
- **透明度**
点击数据可以链接到发布会及源文件。
- **客制化**
您可以建立自己的分析师名单和根据需求选择研究指标、日期等等。



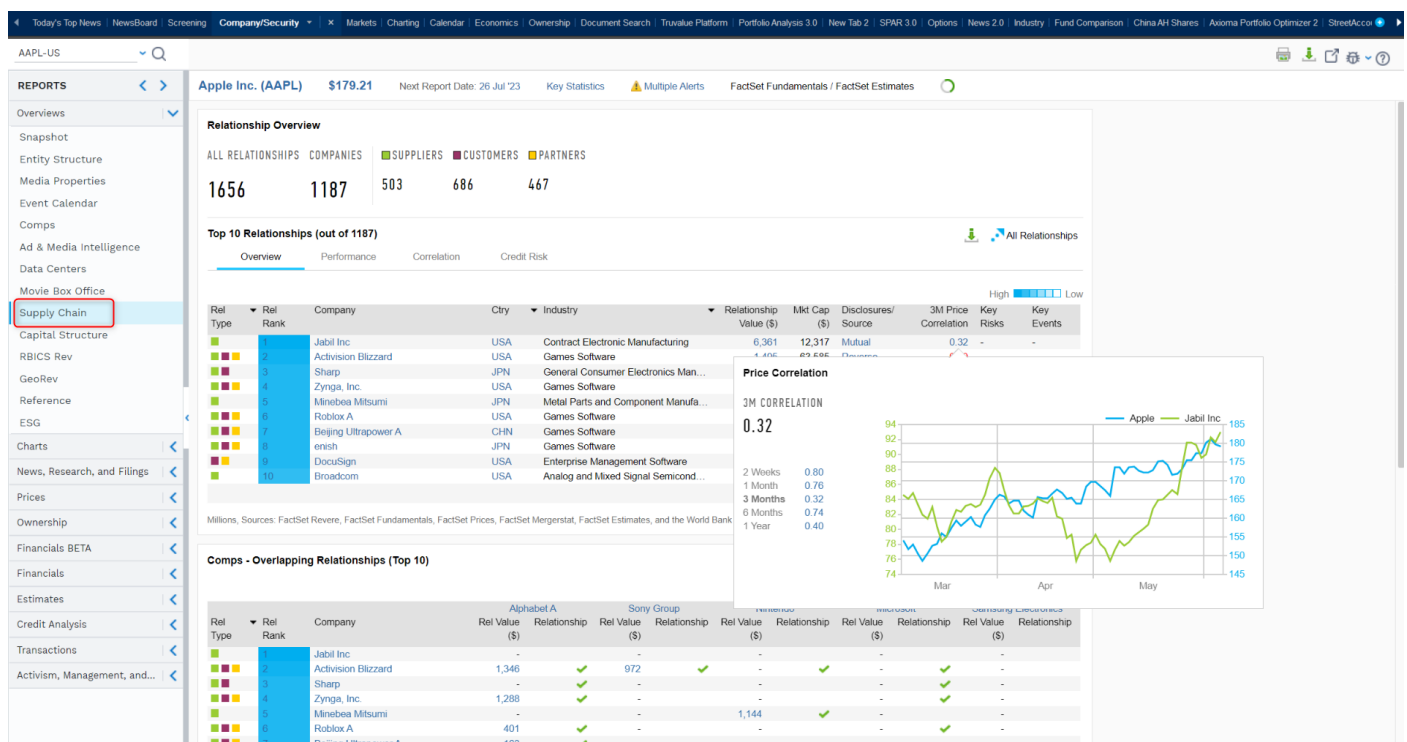
FACTSET SEE THE ADVANTAGE



FACTSET > SEE THE ADVANTAGE

1.3.3 Supply Chain Relationship

- **Gain Alpha**
Uncover interconnected relationships around a stock portfolio that may impact overall performance
- **Integration**
Identify Supply Chain Relationship between sectors and industries, access relationship using Quantifiable metrics, including percentage revenues derivation, percentage of product overlap, key words, and granular sector mappings
- 体现资讯优势
助于您发现投资组合里有可能对整体表现产生影响的相互联系。
- 一体化
有助于您确认行业和板块之间的生产链关系，使用量化指标获取生产链关系，包括收入来源所占百分比、产品重叠百分比，关键词以及板块映射表。



Today's Top News

Company/Security

Screening

Charting

Ownership

Industry

Document Search

Economics

Markets

Portfolio Analysis 3.0

Portfolio List Manager 2

Calendar

AAPL-US

Entity Structure

Media Properties

Event Calendar

Comps

Ad & Media Intelligence

Data Centers

Movie Box Office

Supply Chain

Capital Structure

RBICS Rev

GeoRev

Reference

ESG

Charts

News, Research, and Filin...

Prices

Ownership

Financials BETA

Financials

Estimates

All Estimates

Estimate Summary

Estimate History

Guidance History

Surprise History

Broker Outlook

Targets & Ratings

Credit Analysis

Transactions

Apple Inc. (AAPL)

\$177.82

Next Report Date: 26 Jul '23

Key Statistics

Multiple Alerts

FactSet Fundamentals / FactSet Estimates

Relationship Overview

ALL RELATIONSHIPS COMPANIES

SUPPLIERS CUSTOMERS PARTNERS

1657 1188 504 686 467

Top 10 Relationships (out of 1188)

Overview Performance Correlation Credit Risk

Rel Type	Rel Rank	Company	Ctry	Industry	Relationship Value (\$)	Mkt Cap (\$)	Disclosures/ Source	3M Price Correlation	Key Risks	Key Events
	1	Jabil Inc	USA	Contract Electronic Manufacturing	6,361	12,438	Mutual	0.37	-	1
	2	Activision Blizzard	USA	Games Software	1,495	63,286	Reverse	-0.21	-	-
	3	Sharp	JPN	General Consumer Electronics Man...	3,223	3,847	Multiple	-0.59	-	-
	4	Zynga, Inc.	USA	Games Software	1,400	-	Reverse	-	1	-
	5	Minebea Mitsumi	JPN	Metal Parts and Component Manufa...	1,373	8,251	Mutual	0.78	-	-
	6	Qorvo	USA	Module and Subassembly Compon...	1,321	9,751	Mutual	-0.22	-	-
	7	Beijing Ultrapower A	CHN	Games Software	298	3,715	Reverse	0.78	-	-
	8	enish	JPN	Games Software	12	98	Reverse	0.77	-	-
	9	Adobe	USA	Design and Engineering Software	-	191,883	Reverse	0.57	-	1
	10	DocuSign	USA	Enterprise Management Software	-	11,553	Reverse	-0.34	-	1

Millions, Sources: FactSet Revere, FactSet Fundamentals, FactSet Prices, FactSet Mergerstat, FactSet Estimates, and the World Bank

Comps - Overlapping Relationships (Top 10)

Rel Type	Rel Rank	Company	Alphabet A		Sony Group		Nintendo		Samsung Electronics		Microsoft	
			Rel Value (\$)	Relationship	Rel Value (\$)	Relationship	Rel Value (\$)	Relationship	Rel Value (\$)	Relationship	Rel Value (\$)	Relationship
	1	Jabil Inc	-		-		-		-		-	
	2	Activision Blizzard	1,346	✓	972	✓	-	✓	-	-	-	✓
	3	Sharp	-	✓	-		-	✓	-	-	-	✓
	4	Zynga, Inc.	1,288	✓	-		-	-	-	-	-	✓
	5	Minebea Mitsumi	-		-		1,144	✓	-	-	-	
	6	Qorvo	-	✓	-		-		428	✓	-	
	7	Beijing Ultrapower A	143	✓	-		-		-	-	-	

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1.3.4 Geographic Revenue Exposure

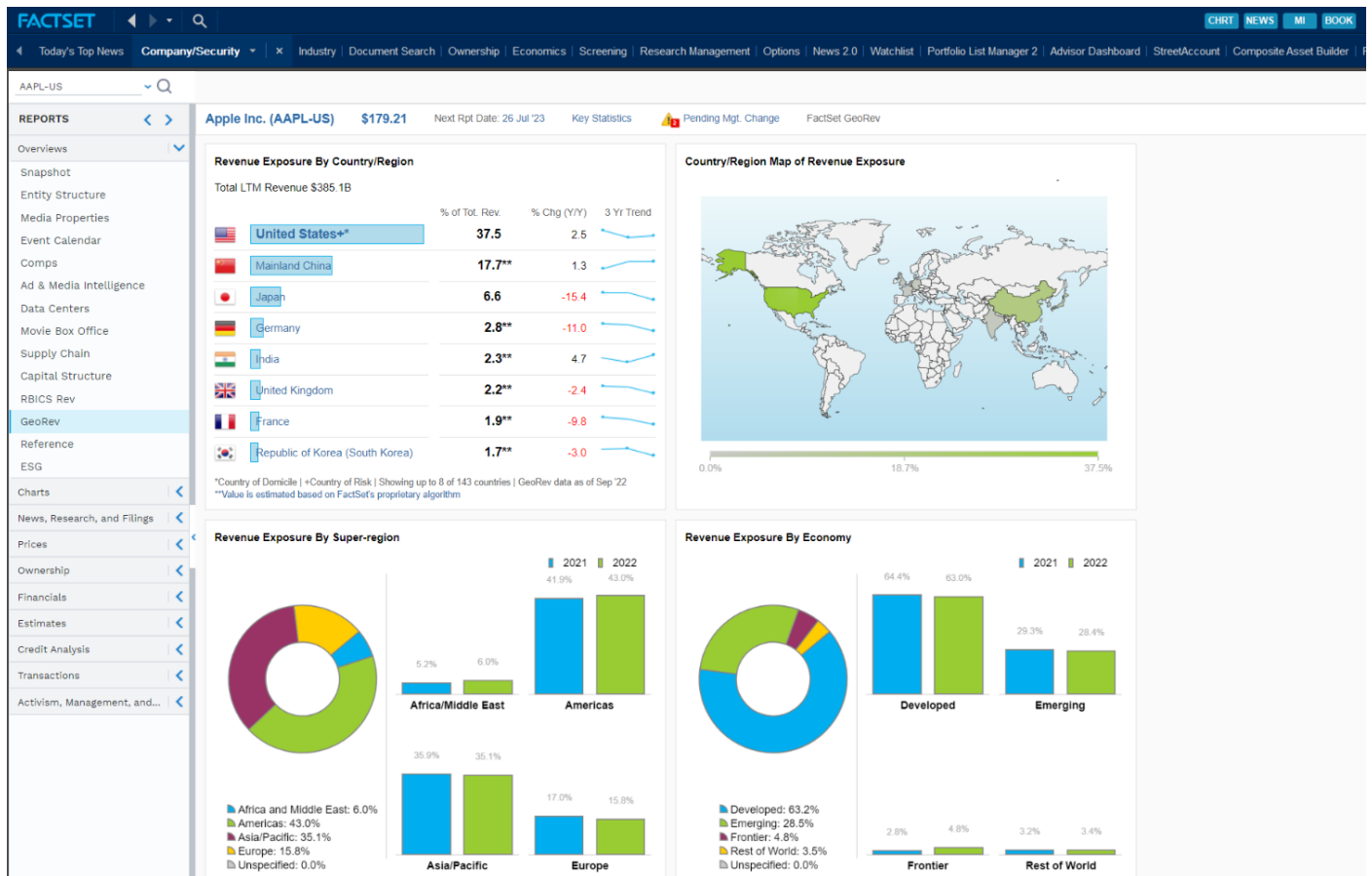
- Coverage**

Measure and monitor revenue trends by country, region, and/or super-region in order to both identify investment opportunities and minimize portfolio exposure to macroeconomic and geopolitical risk factors. Applicable for Index and Fund as well.

- 覆盖面**

衡量和监测以国家，地区及超级地区分类的收入趋势，借此发现潜在投资机会以及将政治地理风险最小化的可能性。

该报告同样适用于指数和基金。



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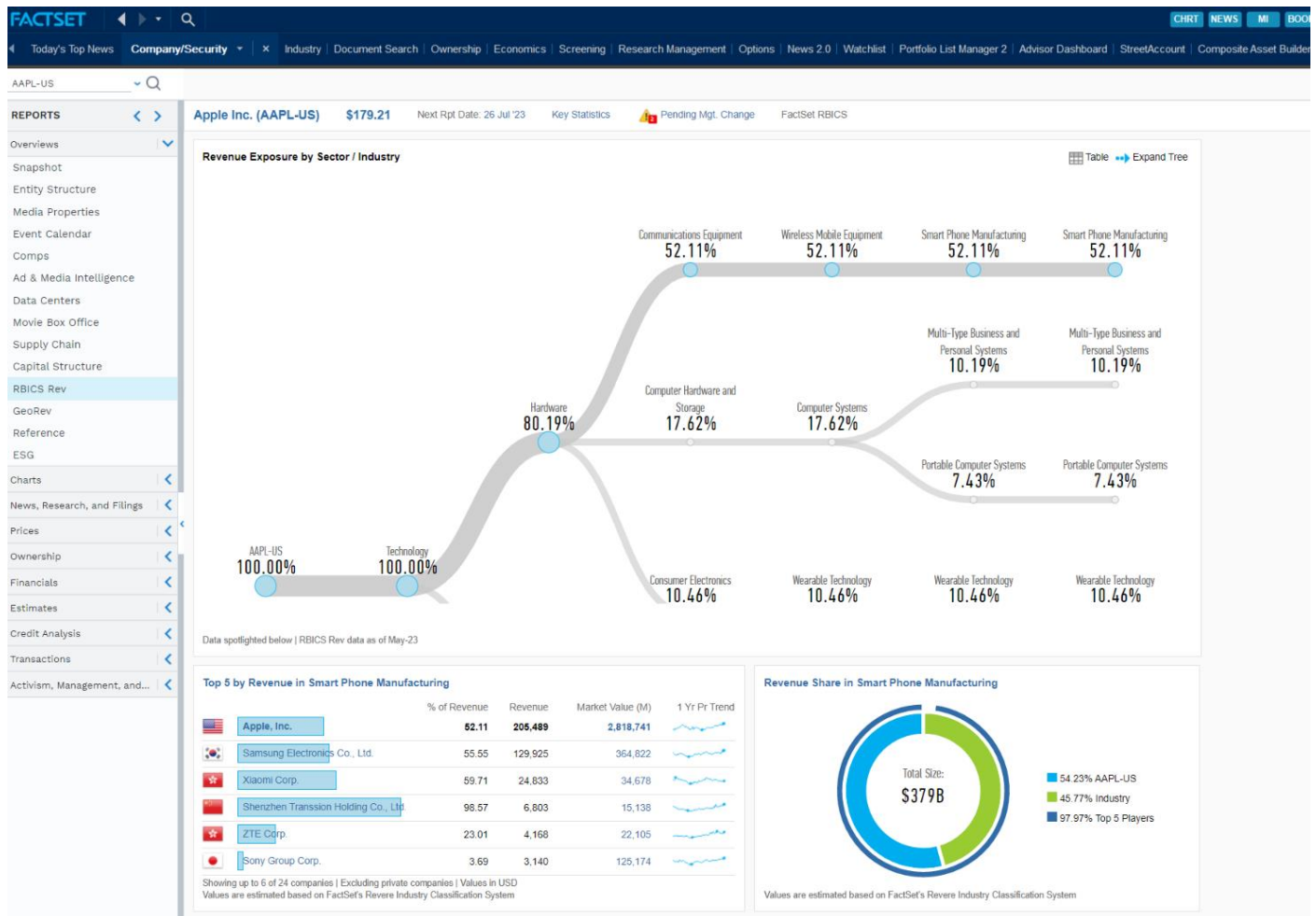
1.3.5 Industry/Sector Classification

- Coverage**

Take advantage of deep, granular classifications with multiple levels. Benefit from a dynamic, reliable taxonomy that is systematically adjusted to keep up with changing business and industry trends

- 覆盖面**

利用具有多个级别深入的、精细的分类，受益于动态、可靠的分类法，经过系统调整以跟上不断变化的业务和行业趋势。



1.3.6 Debt Capital Structure

The Debt Capital Structure (DCS) Overview report provides a broad and comprehensive view of the instruments associated with a debt issuer. It includes current credit ratings, current credit spreads, price history, historical credit analysis, a debt capital structure summary, a liquidity summary, and chart and data for long-term debt by maturity and debt seniority.

- **Quality & Frequency**
Quarterly updates. Financial document linking in reports
- **Global Coverage & Deep History**
100+ classifications elements used to categorize each instruments
- **Product Integration**
Summarize DCS data. Easily perform analysis with FactSet Workstation. Users can navigate through full terms and conditions, security pricing, and issuer and issue-level ratings and various reports in FactSet Workstation

此报告提供了与债务发行人相关的工具的广泛而全面的观点。它包括当前信用评级、当前信用利差、价格历史、历史信用分析、债务资本结构摘要、流动性摘要，以及按期限和债务优先顺序划分的长期债务图表和数据。

- 数据质量和更新频率
每一季度更新，报告内可直接导出源文件。
- 全球性覆盖 & 丰富历史数据
超过一百个分组类别来区分每一个固定收益工具。
- 应用程序一体化
在 Workstation 内可以直接进行数据整合、数据分析。您可以获取固定收入证券相关信息，如：证券条款，证券定价，发行者或者发行证券级别的评级以及其他更多报告。

AAPL-US (FREE Wr...)	
Search:	🔍 🔍 🔍 📄 📄 📄 📧 📧 📧 📧 📧
Filed Pursuant to Rule 433 Registration No. 333-2018758 Issuer Free Writing Prospectus dated May 4, 2020 Pleading to Preliminary Prospectus Supplemented May 4, 2020	
APPLE INC. FINAL PROSPECTUS TERM SHEET	
0.750% Notes due 2023 ("2023 Notes")	
Issuer:	Apple Inc.
Principal Amount:	\$2,000,000,000
Maturity:	May 1, 2023
Coupon:	0.750%
Paid to Public:	0.750% and November 11, commencing November 11, 2020
Interest Payment Dates:	30/90
Day Count Convention:	Monthly from April 15, 2023
Benchmark Treasury:	0.242%
Benchmark Treasury Yield:	80 basis points
Yield Spread to Benchmark Treasury:	0.542%
Redemption:	Apple Inc. may at its option redeem the 2023 Notes, at any time in whole or from time to time in part, prior to their maturity, at a redemption price, calculated by Apple Inc., equal to the greater of (i) 100% of the principal amount of the 2023 Notes being redeemed; or (ii) the sum of the present values of the remaining scheduled payments of principal and interest on the 2023 Notes being redeemed exclusive of interest accrued to, but excluding the date of redemption); discounted to the date of redemption on a semi-annual basis (assuming a 360-day year consisting of twelve 30-day months) at a rate equal to the sum of the applicable Treasury Rate (as defined in the 2023 Notes) plus 10 basis points, plus, in each case, accrued and unpaid interest thereon to, but excluding, the date of redemption.
Traffic Date:	May 4, 2020
Settlement Date:	May 1, 2023 (T+5)
Denominations:	\$2,000 and any integral multiple of \$1,000 or excess thereof
Ratings:	A+ (stable) by Moody's Investor Services, Inc. A++ (stable) by Standard & Poor's Ratings Services
Net Proceeds:	Aggregate net proceeds from sale of all notes offered pursuant to this Pricing Term Sheet will be approximately \$8.42 after deducting underwriting discounts and Apple's offering expenses.
CUSIP/N:	078313 DVS / U08373DQV096
Underwriters:	Goldman Sachs & Co. LLC B.B. Hesse Securities, Inc.
Joint Book-Running Managers:	Goldman Sachs & Co. LLC B.B. Hesse Securities, Inc.

CHRT NEWS MI BOOK

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1.3.7 Bond/Note

FactSet covers information on more than 36,000 bond issuers worldwide, including data on various credit instruments such as revolving credit, short-term loans, and bill bonds

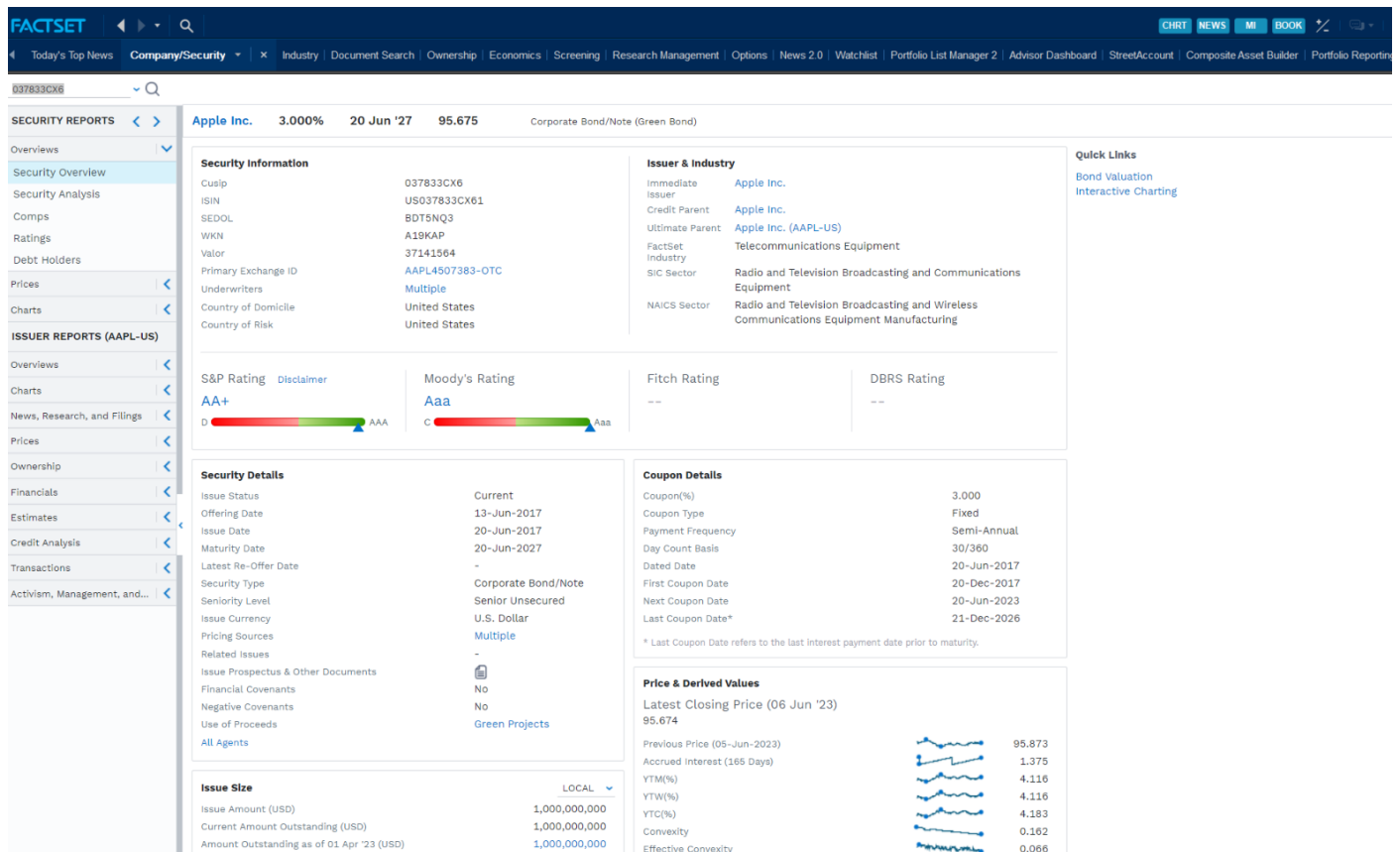
- Security Analysis**

Apart from basic information, security analysis serves as an interactive calculator, provides yields, spreads, effective duration, cash flows, and interest rate/credit scenarios for global fixed income instruments, allowing you to determine the value and risk of publicly issued corporate, government, and municipal bonds, preferred stock, and mortgage-backed securities (MBS)

FactSet 覆盖全球范围内超过 36,000 个债券发行者的信息，囊括周转信贷、短期贷款、票据债券等各种信贷工具的数据。

- 证券分析**

除了基本信息以外，证券分析（security analysis）是一个互动性的计算器，提供全球范围内固定收益工具的债券收益率、债券利差、有效久期、现金流、利息等信息，可让您计算公开发行的公司债券、政府债券、地方政府债券，优先股和住房抵押贷款证券的价值和风险。



FACTSET

Today's Top NewsCompany/SecurityIndustryDocument SearchOwnershipEconomicsScreeningResearch ManagementOptionsNews 2.0WatchlistPortfolio List Manager 2Advisor DashboardStreetA

037833CX6SingleShow Benchmark Details

SECURITY REPORTS<>Security AnalysisCompsRatingsDebt HoldersPricesChartsISSUER REPORTS (AAPL-US)OverviewsChartsNews, Research, and FilingsPricesOwnershipFinancialsEstimatesCredit AnalysisTransactionsActivism, Management, and...

Apple Inc.3.000%20 Jun '2795.675Corporate Bond/Note (Green Bond)

VALUATIONAs of06-Jun-2023Settlement Date06-Jun-2023 (T+0)Discount CurveUS GovernmentBond Call Exercise MethodIntrinsic ValueLoss AssumptionNonePrice95.674Full Price97.057333Yield to Expected Maturity4.11568 (21-Jun-2027)Yield to Worst4.11568Yield to Maturity4.11568Benchmark Spreadto Exp0.28787BenchmarkUS91282CHE49I Spread20.00517Z Spread20.77602Spread to Worst20.776CDS 5yr (USD)25.815

OAS AND RISK CALCULATIONSOption Pricing ModelDefaultVolatility UsedTerm StructureOption Adjusted Spread16.10517Static Spread20.776Option Value (in BPs)4.671Average Life4.044Macaulay Duration3.78Modified Duration3.704Effective Duration3.613Effective dP/dY3.513Effective dP/dY Up3.505Effective dP/dY Dwn3.521Effective Convexity0.066Effective DV01351Spread Duration3.614Spread dP/dY3.508

INVOICEFace Value1,000,000.00CurrencyUSDPrincipal956,740.00Accrued Interest13,833.33 (165 days)Total Market Value970,573.33

Calculate

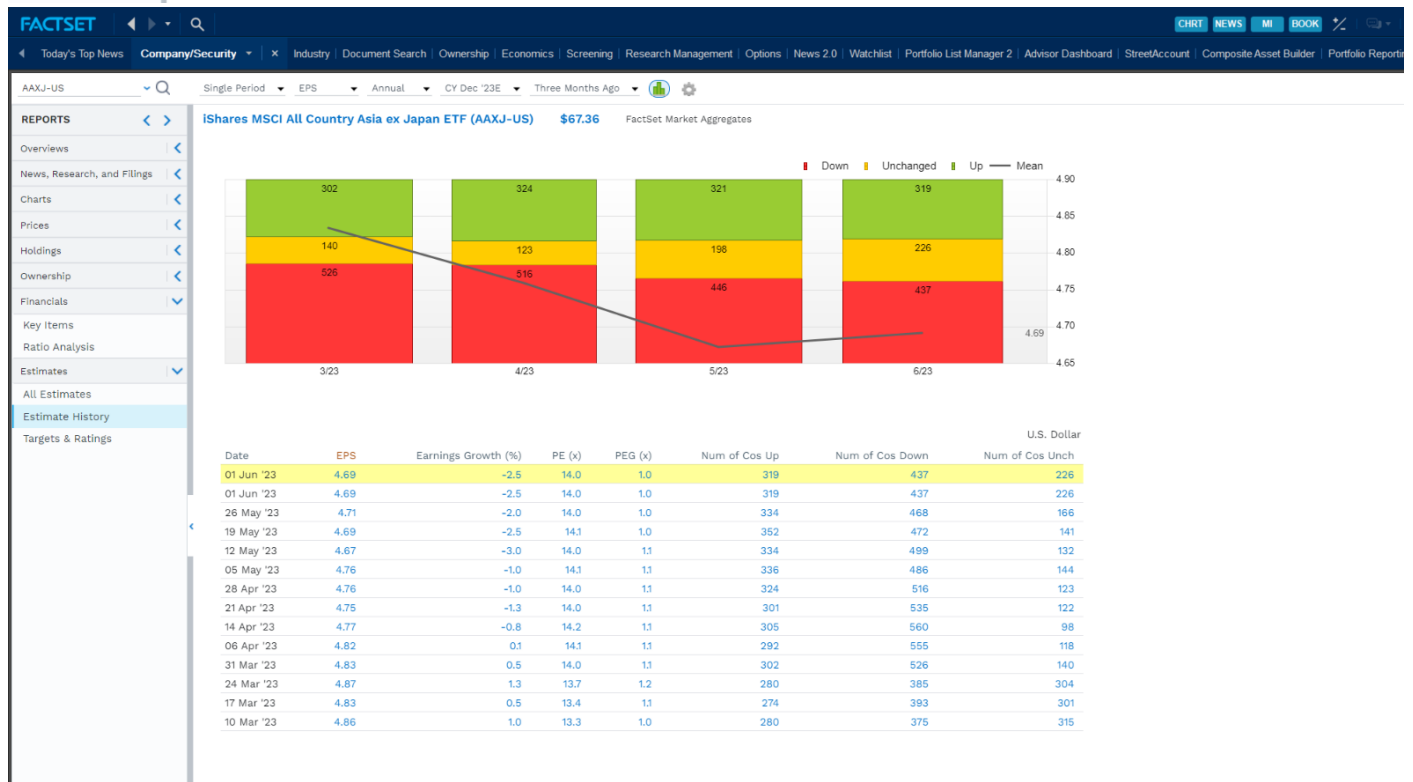
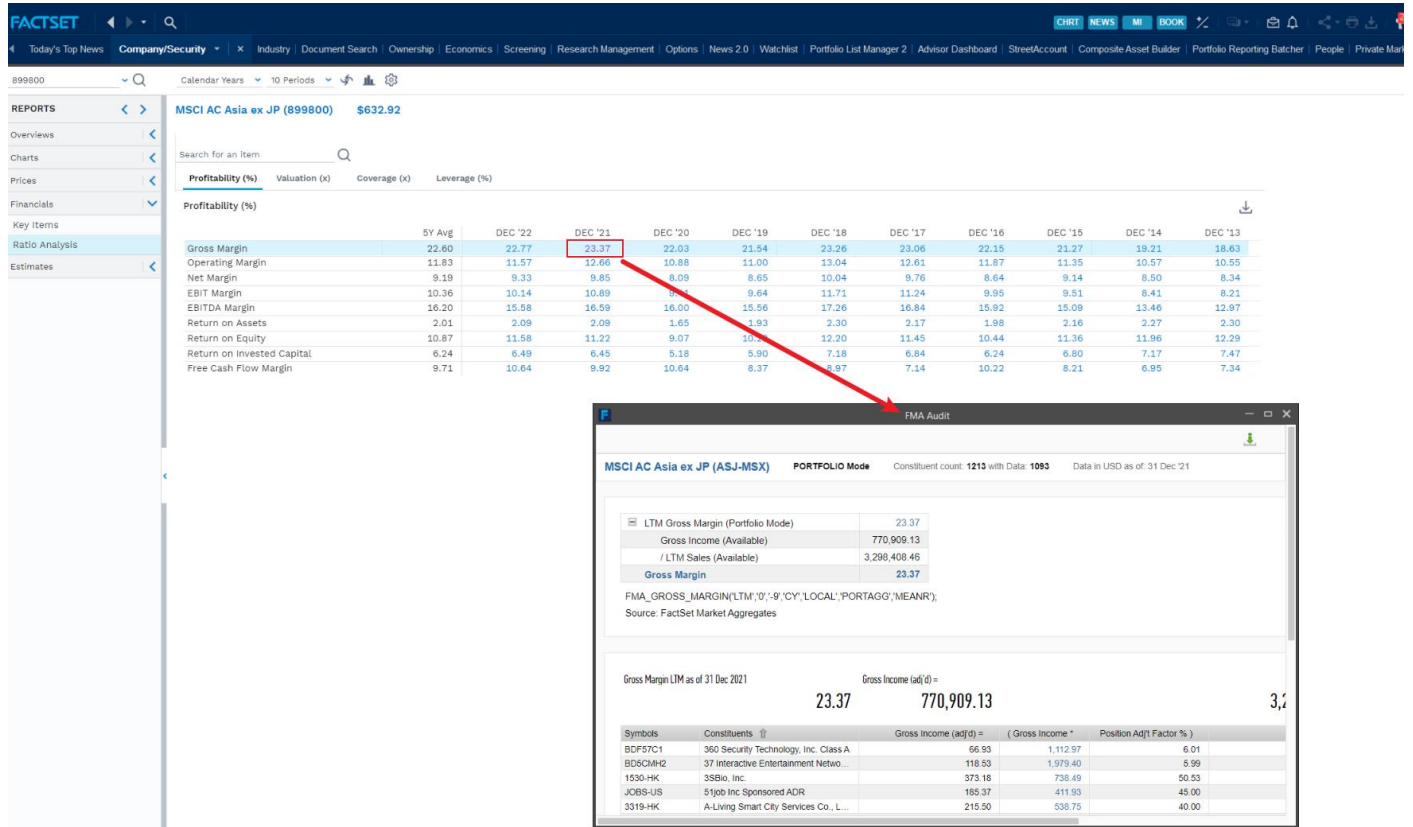
Projected Cash FlowsScenario Analysis

DatePrincipal BalancePrincipal PaymentsInterest PaymentsTotal Cash FlowCoupon

1.3.8 Index/Fund/Sector Analysis (FactSet Market Aggregates)

- **Comprehensive Data**
Aggregates information from FactSet Fundamentals and FactSet Estimates. FMA offers over 170 metrics that are available for almost 25,000 indices
- **Transparency**
FMA allows you to view all underlying calculations and drill down to the security-level data
- **Functionality**
FMA allows you to use aggregates for relative analysis on your portfolios and watch lists and apply them across charts and reports.
- **全面的数据**
整合来自 FactSet Fundamentals 和 FactSet Estimates 数据库的信息。FMA 提供超过 170 个指标，适用于约 25000 个基准指数。
- **透明度**
您可以查看每一个通过 FMA 计算的数据的整合及计算过程，计算过程可以精确至每一个证券产品。
- **可操作性**
您可以使用 FMA 整合数据，与用户自己的投资组合或者观察名单进行对比分析。其结果也适用于各种图表或者报告。

FACTSET SEE THE ADVANTAGE



1.4 FactSet Events and Transcripts - @EC

This report provides corporate announcements of listed companies, information on important events and meeting minutes (including meeting transcripts and recordings).

- **Excellent Coverage**
FactSet covers over 18,000 companies with events and over 6,600 with transcripts in high quality
- **Functionality**
Customized Universe is available. Data can also be integrated into Charting, Full Quote Views, and Excel

本报告提供上市公司的企业公告、重要事件的信息和会议记录（包括会议文稿及录音）。

- 覆盖面广
覆盖超过 18,000 个上市公司的企业公告和超过 6,600 个公司的公告及会议记录。
- 可操作性强
可建立客制化样本。数据可以整合到其他 FactSet 的应用程序如 Charting, Full Quote Views 及 Excel。

The screenshot displays the FactSet Events and Transcripts interface. The main window shows a calendar for June 2023 with a list of events for June 07, 2023. A pop-up window displays detailed information for Kura Sushi, Inc. (Tokyo: 2695-JP), including its Q2 2023 Earnings Release (Projected) for Wednesday, June 7, 2023, at 12:00 PM JST. The pop-up also shows financial data (EPS, Sales, etc.) and options for Live Audio and Documents.

Time	Ticker	Company	Type	Event	Act	Mean	Surp %	Act	Mean	Surp %
Unspecified	2356-HK	Dah Sing Banking Group Ltd.	Dividend	Dividend HKD 0.2900 (2356-HK: final dividend.)						
Unspecified	2382-HK	Sunny Optical Technology (Group) Co., Ltd.	Annual General Meeting	Nomura Investment Forum Asia						
Unspecified	2455-TW	Visual Photonics Epitaxy Co., Ltd.	Annual General Meeting							
Unspecified	2467-TW	C Sun Mfg Ltd.	Dividend	Dividend TWD 3.6000 (2467-TW: Yearly payment. Subject to 15% tax)						
Unspecified	2642-TW	Taiwan Pelican Express Co., Ltd.	Dividend	Dividend TWD 1.5000 (2642-TW: Yearly payment. Subject to 15% tax)						
Unspecified	2695-JP	Kura Sushi, Inc.	Q2 2023 Earnings Release (Projected)		-	-	-	-	\$1,800	-
Unspecified	2809-TW	King's Town Bank								
Unspecified	2816-TW	Union Insurance Co., Ltd.								
Unspecified	2883-HK	China Oilfield Services Ltd.								
Unspecified	3001-SA	Hail Cement Co.								
Unspecified	300223-CN	Ingenic Semiconductor Co., Ltd.								
Unspecified	300234-CN	Zhejiang Kaler New Materials Co., Ltd.								
Unspecified	300274-CN	Sungrow Power Supply Co., Ltd.								
Unspecified	300394-CN	Suzhou TFC Optical Co., Ltd.								
Unspecified	300407-CN	Tianjin Keyvia Electric Co., Ltd.								
Unspecified	300546-CN	Shenzhen Emperor Technology Co., Ltd.								
Unspecified	300546-CN	Shenzhen Emperor Technology Co., Ltd.	Split	Split 1:2987.1 (300546-CN: Bonus Issue: 3 new shares for 10 existing shares)						
Unspecified	300629-CN	Guangdong Kingstrong Technology Co., Ltd.	Dividend	Dividend CNY 0.1000 (300629-CN: Yearly payment.)						
Unspecified	300629-CN	Guangdong Kingstrong Technology Co., Ltd.	Split	Split 1:2987.1 (300629-CN: Bonus Issue: 3 new shares for 10 existing shares)						
Unspecified	300629-CN	Guangdong Kingstrong Technology Co., Ltd.	Dividend	Dividend CNY 1.0000 (300629-CN: Yearly payment.)						

FACTSET SEE THE ADVANTAGE

1.5 FactSet Filings - @F

Filings is a fast and intuitive application on FactSet that allows you to quickly find and analyze company filings.

- Detailed and Efficient Searching**
Sort by Keyword Hit Rates, Comprehensive Grouping, Filter by Contributors/Analysts, Customized Universe (Company, Index, Portfolio, Market, etc.), Download Multiple Documents to One or Separate Files
- Excellent Coverage & Doc Viewer**
Coverage includes Complete Regulatory Content, FactSet Global Prospectuses, FactSet Annual and Interims, Non-Regulatory Filings. Users able to view the links to related content of opened document
- Blackline Reports**
Blackline Reports highlight the additions, deletions and changes between two documents

本报告是集合了上市公司申报文件的一站式平台，帮助用户迅速找到所需文件。

- 详细和有效的搜索**
 本报告是根据关键词、点击率分类，有详尽的分组，可通过作者/分析员筛选，个人化的样本选择（公司，指数，投资组合，市场选择等等），下载多个文件到一个或多个文档。
- 覆盖面广**
 覆盖了全面的公司规范性申报内容、招股说明书，年度报告、中期报告和非规范性文件。在同一窗口，您也可以查看与该文档相关的其他文档。
- Blackline Reports**
 Blackline Reports 突出显示了两个文件之间的添加，删除和更改。

The screenshot shows the FactSet Filings application interface. The top navigation bar includes 'FACTSET' and various tool icons. Below it, a 'SMART SEARCH' bar shows 'Filings' selected. The main area is divided into 'Sources', 'Form Groups', 'Form Types (EDG)', and 'Key Exhibits (EDG)'. A table of search results is visible, with columns for Date, Identifier, Source, Form, Tables, and Headline. A red arrow points to a specific filing entry. To the right, a 'Doc Viewer' window displays a document titled 'TCX-US (10-K) 06...' with a 'Table of Contents' and a 'CONTEXT RESULTS' sidebar on the right.

1.6 Alert Manager2 - @AM2

- Alert Manager helps you keep track of and create alerts to notify you if certain news criteria specified are met (News Alerts), you can also set notifications when the price (or price-related data item) for a ticker matches your specified criteria (Quote Alerts)
- Alert Manager 可让您设定条件、创建提示来追踪市场事件：符合筛选条件的新闻会被发送并通知用户（News Alerts）；您也可设定报价通知，如果指定股票的价格（或者价格相关的项目）达到预设条件，相关提醒也会被发送至客户端（Quote Alerts）。

The screenshot displays the FactSet Alert Manager 2 (@AM2) interface. The top navigation bar includes links for CHRT, NEWS, MI, BOOK, and a bell icon for alerts. The main content area is titled 'Alert Manager 2 (@AM2)' and features a search bar for all alerts. On the left, there is a sidebar with options like 'My Alerts', 'Active Alerts', 'Notification History', 'Create Alerts', and 'Suggested For You' (marked as BETA). The 'Suggested For You' section displays a grid of alert cards, including 'Late Filings', 'SPAC Summary', 'Investment Types', and 'Private Company Investments'. Each card provides a brief description and a 'DISMISS' button. Below this, there is a section for 'Have you seen our newest alerts?' (4) with cards for 'StreetAccount Service Alert', 'Signals - Estimates', 'Asia Trading Higher/Lower...', and 'BTU Analytics Reports'. A red arrow points from the top navigation bar to the 'Alert Manager 2 (@AM2)' tab.

My Alerts

Active Alerts

Notification History

Create Alerts

Suggested For You

News

StreetAccount News

Price & Volume

Calendar

Transcripts & Investor Slides

Investment Research

Filings

Activism/Governance

Estimates

Screening

Signals

Internal Research Notes

Search all alerts

News

Company News (3)

Watchlist Alert

Alert filtered by your watchlist. Additional filters can be applied for news subjects, sources and...

General Alerts (3)

Document Type Alert

Alerts filtered by FactSet's document types such as Press Releases, Newswires, Filings, Research, etc....

News Subjects (18)

Capital Market Events

Alert Manager 2 (@AM2)

Single Company Alert

Alert filtered by a company. Additional filters can be applied for news subjects, sources and keyword.

Alert Name*

Single Company Alert

Select a company:*

Select at least one subject:*

☒ All

☒ Analyst Actions

☒ Business activities

☒ Capital market events

☒ Corporate actions

☒ Earnings and estimates

☒ Event announcements

☒ FactSet Insight

Select at least one source:*

☒ All

☒ 280first

☒ ACCESSWIRE

☒ Actusnews

☒ AM Best

☒ ASX Company Announcements - Delayed

☒ Bahrain Bourse News

More Options

Enable

Cancel

Switch to List View

My Alerts

Active Alerts

Notification History

Create Alerts

Suggested For You

News

StreetAccount News

Price & Volume

Calendar

Transcripts & Investor Slides

Investment Research

Filings

Activism/Governance

Estimates

Screening

Signals

Internal Research Notes

Search all alerts

Price & Volume

Price (5)

Price Target

Be notified when the latest price meets a specified amount.

More Price

Volume (4)

Volume

Be notified when volume meets a specified amount.

Trading Events (4)

New 52-Week High/Low

Alert Manager 2 (@AM2)

Price Target

Be notified when the latest price meets a specified amount.

Identifier*

700-HKG

Price

Last

Operator

Greater than

Target Price*

340

and*

Notify me

Once then disable per...

Notification Method*

☐ E-mail

☒ Pop-Up

☐ Symphony

☐ Microsoft Teams

☐ Dismiss pop-up after

5

seconds

Note

Enable

Cancel

Switch to List View

Tencent Holdings Ltd.

LAST PRICE (HKD)

337.40

6.20 (1.87%)

Relative to

ed when the latest

removed a specified

above or below

al Volume

ed when

ve volume has

specified percent

e 10 day average...

n Cross

FACTSET SEE THE ADVANTAGE

1.7 Screening Tools

1.7.1 Universal Screening - @US

- Universal Screening lets you identify equity and fixed income securities that meet specific criteria and create reports based on those companies using Equity and Debt Screening.

Universal Screening 让你找出符合特定标准的股票和固定收入证券，并透过 Equity/Debt Screening 创建相关公司的分析报告。

- With above Equity Screening, you can test and confirm investment strategies across database simultaneously 以上的 Equity Screening 让你同时提取多个数据库上的资料作测试并确认投资策略。
- In our Quant Workflow, saved screens can be further used in Alpha Testing for factor back-testing 在我们的量化分析工作流程中，可以将已保存的筛选页面（Screen）导入 Alpha Testing 作因素回溯测试。

Dashboard | Today's Top News | Markets | Company/Security | News | Document Search | Calendar | **Screening** | x | Economics | Ownership | Charting | Industry | Deals

Universal Screening | Idea Screening

A SHARES TRACKING

SELECT CRITERIA

FORMAT RESULTS

RESULTS: 1,394 Search for a security...

Variables Results Charting Param

Performance Price +

Add Columns (FE_ESTIMATE(NET_INC,MEAN_ANN_ROLL,+1,NOW,...)/FF_NET_INC(ANN_R,0)-1)*100

Symbol	Name	Market Value MM CNY	GICS Sector	GICS Industry	PE FY1	PE FY2	PE FY3	FY1 EG %	FY2 EG %	FY3 EG %	FY1 PEG	FY2 PEG
1 002262-CN	Jiangsu Nhwa Pharmaceutical Co.	31,366.2	Health Care	Pharmaceutical	28.5	23.4	19.0	22.2	21.5	23.7	1.3	1.1
2 002478-CN	Jiangsu Changbao Steel Tube Co.	6,203.6	Materials	Metals & Mining	12.3	10.4	9.2	7.0	18.9	13.7	1.8	.6
3 002536-CN	Fellong Auto Components Co., Ltd.	5,472.8	Consumer Disc	Automobile Cor	-	-	-	-	-	-	-	-
4 002638-CN	Dongguan Kingsun Optoelectronic	4,918.1	Industrials	Electrical Equip	-	-	-	-	-	-	-	-
5 003020-CN	Hefei Lifeon Pharmaceutical Co., Ltd.	6,814.1	Health Care	Pharmaceutical	-	-	-	-	-	-	-	-
6 300025-CN	Hangzhou Huaxing Chuangye Co.	6,794.2	Communication	Diversified Tele	-	-	-	-	-	-	-	-
7 300161-CN	Wuhan Huazhong Numerical Cor	8,512.2	Information Tec	Electronic Equip	84.6	47.5	32.7	531.2	78.1	45.5	.2	.6
8 300491-CN	Shijiazhuang Tonhe Electronics T	5,737.8	Industrials	Electrical Equip	50.6	29.5	19.1	153.7	71.6	54.4	.3	.4
9 300545-CN	Shenzhen Liande Automatic Equ	4,754.6	Industrials	Machinery	-	-	-	-	-	-	-	-
10 300657-CN	XiaMen HongXin Electron-tech Co.	8,889.1	Information Tec	Electronic Equip	-	-	-	-	-	-	-	-
11 300856-CN	Nanjing COSMOS Chemical Co., Ltd.	13,816.5	Materials	Chemicals	25.9	20.4	16.3	35.0	26.9	25.3	.7	.8
12 300908-CN	Zhongjing Food Co., Ltd. Class A	4,780.0	Consumer Stag	Food Products	27.8	23.0	19.7	38.1	20.7	17.1	.7	1.1
13 300913-CN	Zhejiang Zhaolong Interconnect	8,342.3	Industrials	Electrical Equip	48.7	36.0	26.5	30.3	36.5	35.8	1.6	1.0
14 600587-CN	Shinva Medical Instrument Co. Ltd.	16,550.7	Health Care	Health Care Eq	23.5	19.2	16.0	44.9	22.3	20.6	.5	.9
15 601138-CN	Foxconn Industrial Internet Co., Ltd.	361,901.9	Information Tec	Electronic Equip	15.4	13.5	11.9	16.8	13.8	14.1	.9	1.0
16 601163-CN	Triangle Tyre Co., Ltd. Class A	12,160.0	Consumer Disc	Automobile Cor	13.9	11.8	10.7	17.5	18.6	9.5	.8	.6
17 603109-CN	Senci Electric Machinery Co., Ltd.	3,617.2	Industrials	Electrical Equip	-	-	-	-	-	-	-	-
18 603680-CN	KTK Group Co., Ltd. Class A	8,589.6	Industrials	Machinery	-	-	-	-	-	-	-	-

Dashboard | Today's Top News | Markets | Company/Security | News | Document Search | Calendar | Screening | x | Economics | Ownership | Charting | Industry | Deals

Universal Screening | Idea Screening

A SHARES TRACKING

Start Page | Variables | Results | Charting | Parameters

RESULTS: 1,394

Variables | Results | Charting | Parameters

Add Columns (FE_ESTIMATE(NET_INC,MEAN,ANN_ROLL,+1,NOW,,)/FF_NET_INC(ANN_R,0)-1)*100

Modify | Add New

RefHeadingFormulaDescriptionAvailablePassed

Frozen Columns

FZCOL1SymbolAVAIL(FS_TICKER_REGION,CUSIP)Company Symbol5011-

FZCOL2NameAVAIL(PROPER_NAME,CN)Company Name5011-

Performance

1P1Most recent FYFF_FISCAL_DATE(ANN_R,0,RP,DATE)-

2P2Market Value MM CNYFREF_MARKET_VALUE_COMPANY(0,CNY,1)-

3P3GICS SectorFG_GICS_SECTOR--

4P4GICS IndustryFG_GICS_INDUSTRY--

5P5PE FY1FE_VALUATION(PE,MEAN,ANN_ROLL,+1,NC)-

6P6PE FY2FE_VALUATION(PE,MEAN,ANN_ROLL,+2,NC)-

7P7PE FY3FE_VALUATION(PE,MEAN,ANN_ROLL,+3,NC)-

FACTSET SEE THE ADVANTAGE

1.7.2 Idea Screening - @ISC

- Idea Screening allows you to screen and report on Companies, M&A, Private Equity/Venture Capital, Public Equity Offerings, and Private Placements

Idea Screening 让你筛选并找出公司、并购、私募股权/风险资本、公开发行股票和私募相关的作分析。

- Idea Screening in Comps report allows you to create a quick comps sheet. You can choose from a list of predefined FactSet Comparison reports, or create your own report. This dynamic report provides an easy-to-use interface for creating global peer comparison lists quickly

Comps 报告内的 Idea Screening 让你创建快速可比公司模型（quick comps sheet）。你可以从 FactSet 预定义的比较报告列表中选择，或创建自己的报告。这个动态报告提供了一个易于使用的界面，能快速创建全球范围内同类公司的比较列表。

The screenshot shows the FactSet Idea Screening interface. On the left, there are search parameters and logic filters. The main table lists companies with columns for Name, Revenue, Company Type, Business Description, FactSet Industry, Crunchbase Category (BETA), Crunchbase Rank (BETA), Ultimate Parent Name, and Fiscal Year End.

Name	Revenue	Company Type	Business Description	FactSet Industry	Crunchbase Category (BETA)	Crunchbase Rank (BETA)	Ultimate Parent Name	Fiscal Year End
Galaxy Entertainment Group Limited	1,072.90	Public Company	[match score: 04] Galaxy Entertainment Group Ltd. operates as an investment holding company. The firm engages in the management of Casino games and provision of hospitality and related services. It operates through the following segments: Gaming and Entertainment, Construction Materials and Corporate and Treasury Management, T...	Casinos/Gaming	-	-	Galaxy Entertainment Group Limited	31-Dec-2022
Melco International Development Limited	859.76	Public Company	[match score: 08] Melco International Development Ltd. operates as an investment holding company, which engages in the provision of entertainment and property development services. It operates through the Casino and Hospitality, and Other segment. The Casino and Hospitality segment operates through Melco Resorts & Entertainment...	Casinos/Gaming	-	-	Melco International Development Limited	31-Dec-2022
SJM Holdings Limited	510.57	Public Company	[match score: 06] SJM Holdings Ltd. engages in Casino gaming operations and gaming-related activities. It operates through the Gaming Operations, and Hotel, Catering, and Retail Operations segments. The Gaming Operations segment focuses on the operations of Casino and related facilities. The Hotel, Catering, and...	Movies/Entertainment	-	-	Sociedade de Turismo & Diversões de Macau SA	31-Dec-2022

The screenshot shows the FactSet Comps Tables - Named Competitors interface. It displays a list of companies and their financial data. The table includes columns for Company Name, Ticker, Fiscal Period, Price, Mkt Cap (M), EV (M), Shares Out (M), Shares Out Diluted (M), Sales (M), EBIT (M), EBITDA (M), and Valuation (x) EBITDA.

Company Name	Ticker	Fiscal Period	Price	Mkt Cap (M)	EV (M)	Shares Out (M)	Shares Out Diluted (M)	Sales (M)	EBIT (M)	EBITDA (M)	Valuation (x) EBITDA
Galaxy Entertainment	27-HK	12/2022	48.80	217,582.0	209,774.4	4,369.2	4,362.4	8,401.3	-3,441.6	-1,353.2	-
Melco Resorts & Entertainment ADR	MLCO-US	03/31/2023	92.70	40,147.3	97,813.8	443.2	441.9	12,475.5	-4,464.3	-961.6	-
Wynn Resorts	WYNN-US	03/31/2023	805.74	91,691.9	163,358.3	113.8	113.1	33,135.7	34.4	5,337.9	4,748.20
Las Vegas Sands	LVS-US	03/31/2023	461.85	352,977.0	425,432.1	764.3	766.0	41,443.4	-658.5	7,540.9	56.42
Sands China	1928-HK	12/2022	26.50	214,473.3	280,651.4	8,093.3	8,093.2	8,535.2	-9,099.0	-3,226.2	-
Wynn Macau	1128-HK	12/2022	7.35	38,502.5	78,476.0	5,238.4	5,197.5	3,483.1	-4,619.7	-2,311.5	-
Studio City International Holdings ADR A	MSC-US	12/2022	50.16	10,568.6	26,296.2	192.6	177.6	80.4	-2,145.2	-1,151.1	-
Average											4,748.20
Median											43.51

FACTSET SEE THE ADVANTAGE

1.8 Deals - @MAD

- The Deals tab allows you to access reports on deal terms and key players, as well as stock and revenue exposure implications in an M&A transaction

Deals 页面让你查询有关交易条款和关键参与者的报告，以及并购交易中的股票和收入潜在信息。

- Price History report to access key information for merger arbitrage analysis including participant stock price, offer price, and arbitrage spread. Price history information will display anytime there is a public participant on the deal

Price History 报告让您获取并购套利分析的关键信息，包括参与公司的股票价格、要约价格和套利价差。只要有参与本交易的公开参与者，价格历史资料就会显示出来。

- Coverage

On average 400-600 deals are edited each day, with 100-150 of them new deals entered. As new sources, articles, and information are disclosed throughout the life of a deal, the team will update the transactions with this new information – about 300-450 deals per day

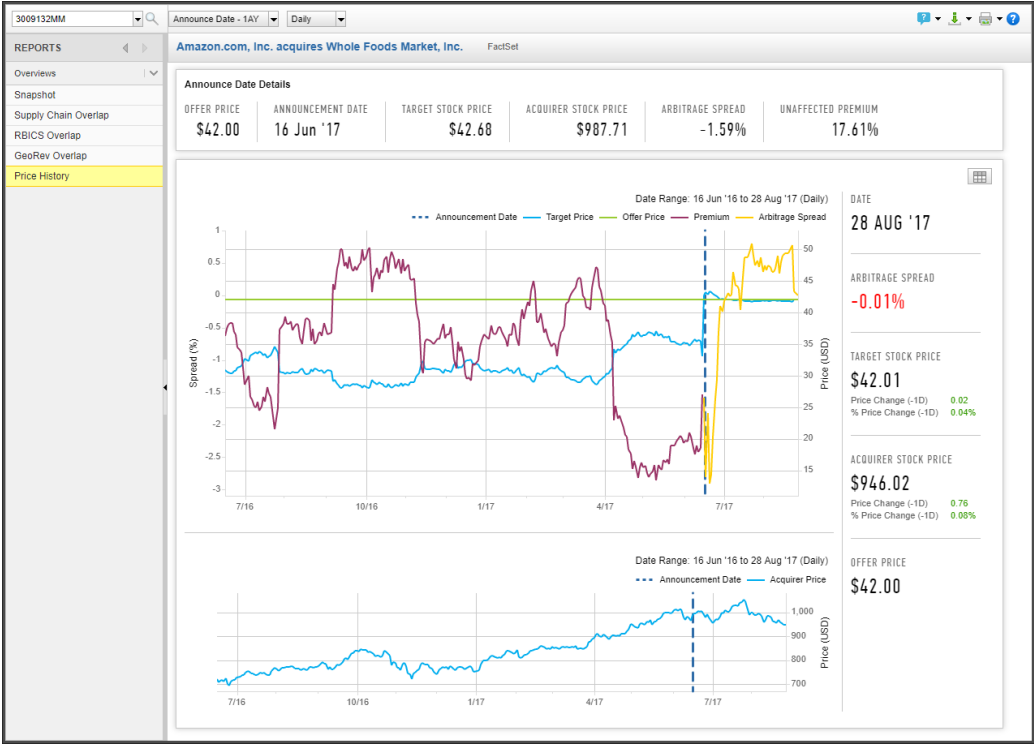
覆盖面

日均更新 400-600 单交易，其中 100-150 单为新记录的交易。随着越来越多新的来源、文章和信息在交易过程中被披露，团队将不断更新交易的资讯 - 日均大约更新 300-450 单交易。

The screenshot shows the FactSet Deals interface for the deal "Amazon.com, Inc. acquires Whole Foods Market, Inc." (Deal ID: 3009132MM). The page is divided into several sections:

- Target:** Whole Foods Market, Inc. (WFM-US), Industry: Food Retail.
- Acquirer:** Amazon.com, Inc. (AMZN-US), Industry: Internet Retail.
- Announce Date:** 16 Jun '17, **Close Date:** 28 Aug '17, **Deal Type:** Acquisition / Merger.
- Transaction Value (M):** \$13,487.6, **Base Equity (M):** \$13,450.6, **Offer Price/Share:** \$42.00.
- Method of Payment:** Cash, **Purpose:** Strategic, **1 Day Premium:** 27.0%.
- Source of Funds:** Bank Debt, Notes / Bonds, Stock Issuance: Pref & Com (Public), Internally Generated Funds, Bank Loan, Bond/Note Issuance.
- Consideration Breakdown (M):** Cash (\$13,450.6, 100.0%).
- Deal Characteristics:** Friendly, Reverse Triangular, Target Shareholder Approval Required (50.1%).
- Financial Advisors to Target:** Evercore Group LLC (Advisor, Fairness Opinion, \$48.00M).
- Financial Advisors to Acquirer:** Goldman Sachs & Co. LLC (Advisor).

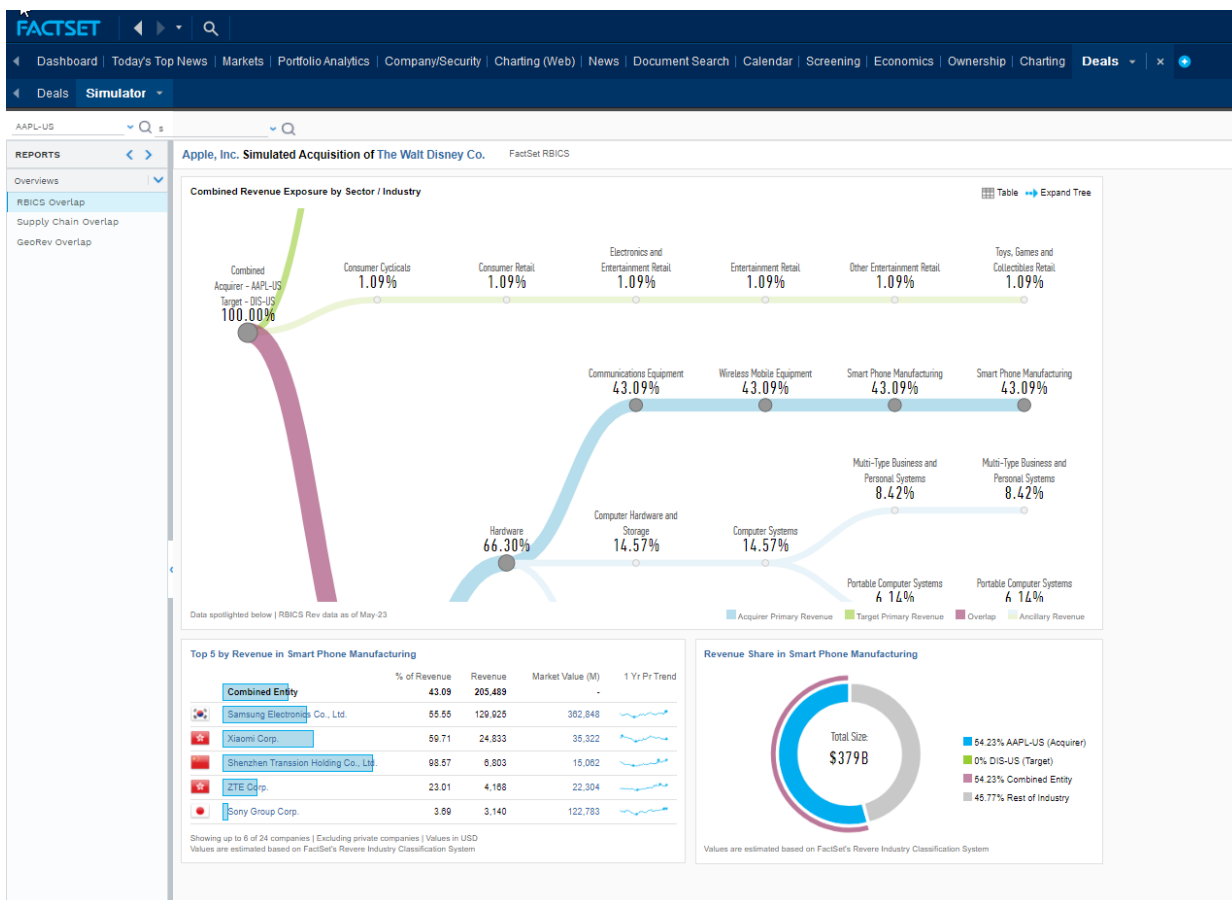
The right side of the page contains a detailed narrative of the deal, including the acquisition price of US\$13.5 billion, the use of cash, and the regulatory approvals. It also lists "Selected Documents (5 of 23)" such as the Merger Agreement, Financials, and Business Wire.



1.8.1 Deals Simulator

- Provide users with the ability to analyze the impact of a hypothetical merger between any two public companies
为用户模拟及分析任何两个上市公司之间合并的影响。
- Helps answer questions such as: "Does this hypothetical target fit with the acquirer", "What new markets will the acquirer enter as a result of the potential merger" and "What customers/suppliers/partners do the companies share?"

有助于回答以下问题：「这个假设的目标是否适合收购方？」、「潜在的合并将令到收购方进入什么新的市场？」和「这两个公司有什么共同的客户/供应商/合作伙伴？」。



FACTSET SEE THE ADVANTAGE

1.9 FactSet Economics - @ECON

- Analytics**

In FactSet Economics database, more than 1000 sources are available for 2+ million series over 200+ countries and regions.

分析

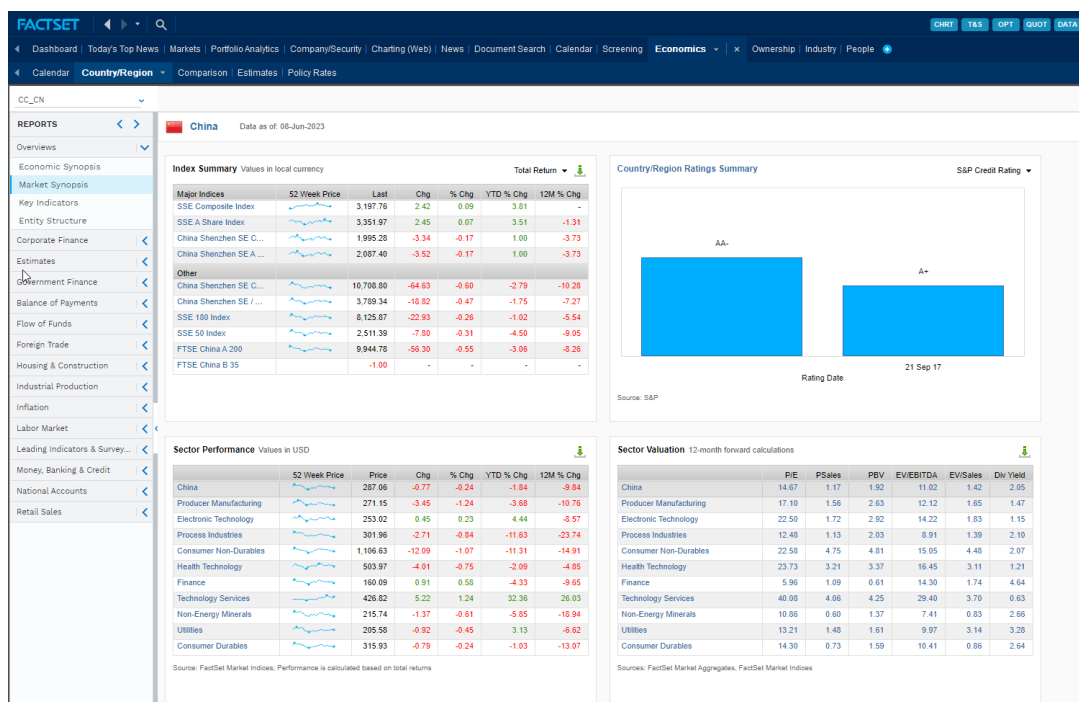
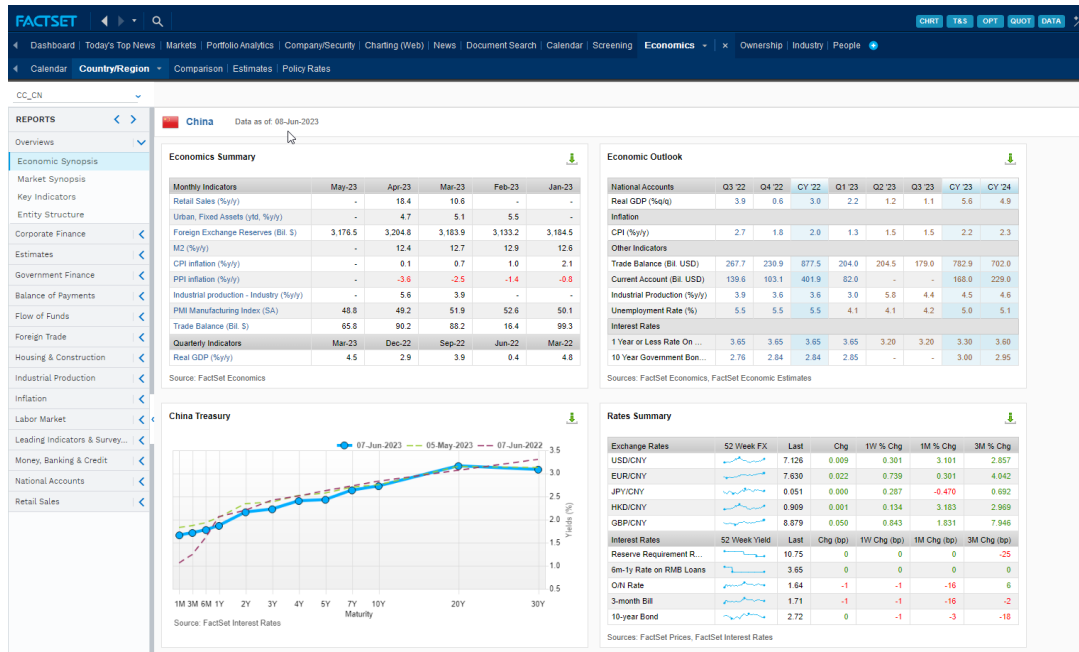
FactSet Economics 数据库中有超过 1000 个数据来源，涵盖 200 多个国家和地区的超过 2 百万个数据项。

- Consolidation**

FactSet integrates multiple data sets (company, benchmark, econ) allowing for sector analysis

整合

FactSet 整合了多个数据集（公司、基准、经济）作行业分析。所有宏观数据都可制图并支持下载。



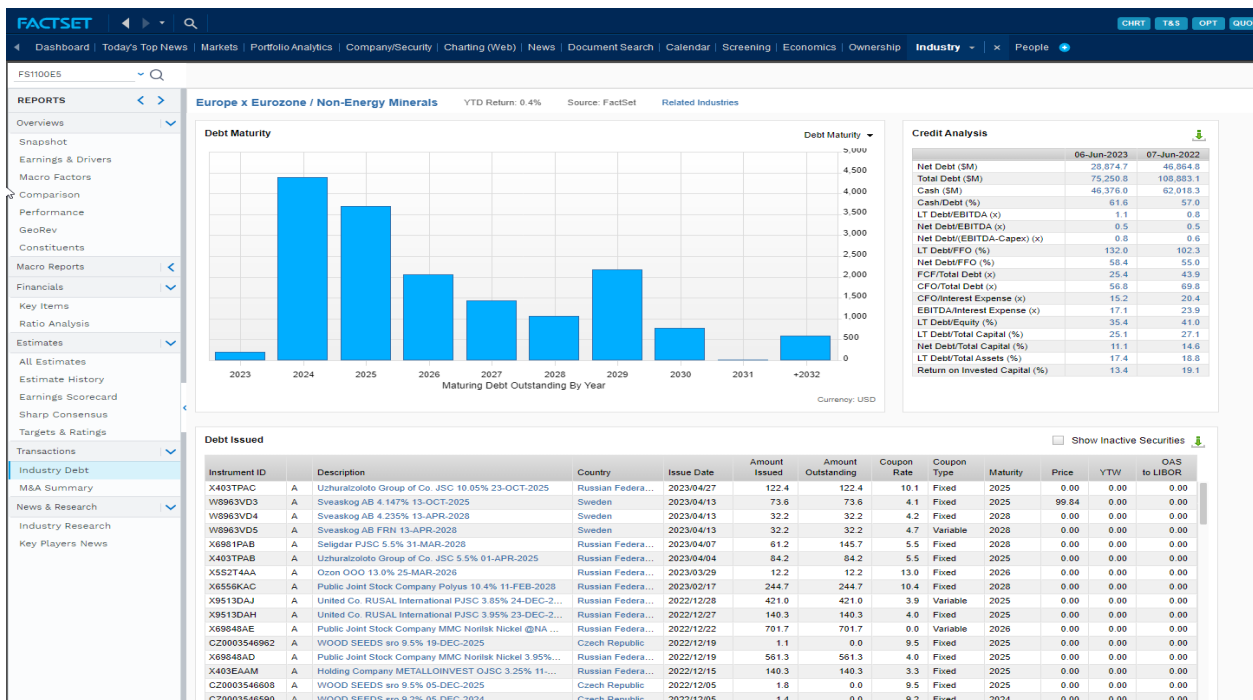
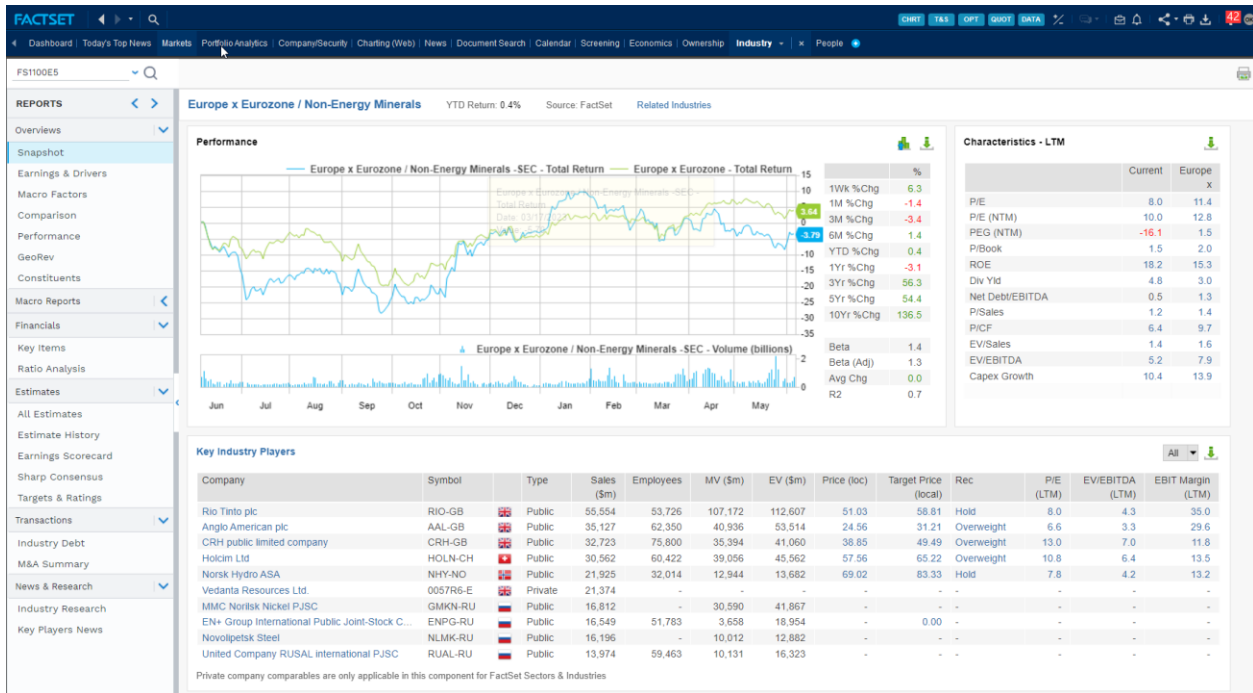
1.10 FactSet Industry (Industry Analysis)

- The Industry tab allows you to seamlessly analyze industry-level data within a single tab.

Industry 页面让您在一个页面中有效地分析行业层面的数据。

- The reports deliver data from FactSet Market Indices (FMI) and include over 100 valuation and performance metrics that are calculated across sectors and industries using FactSet Market Aggregates

报告提供的数据来自 FactSet Market Indices (FMI)，是 FactSet 整理的指数合集。还有超过 100 项从 FactSet Market Aggregates 不同行业和产业计算的估值和业绩指标。



1.11 FactSet Ownership - @OS3

- The Ownership application, provides institutional, mutual fund, and insider/stake holder ownership information. It allows you to easily answer your basic Ownership questions and quickly dive into more detailed analysis.

Ownership 页面, 提供机构、共同基金和内部/利益相关者所有权信息。使您可以轻松回答基本的所有权问题, 并快速进行更详细的分析。

- Functionality**
Times series analysis with peer funds and custom charting

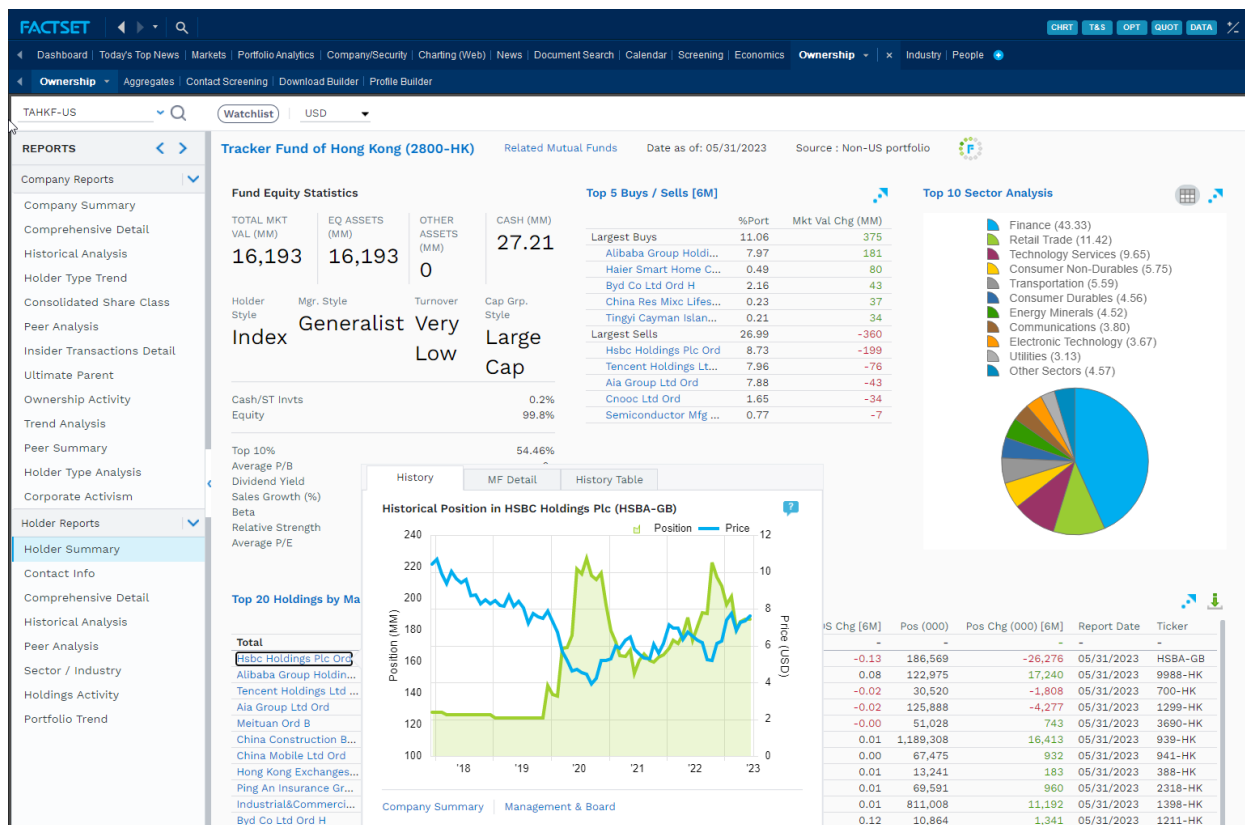
功能

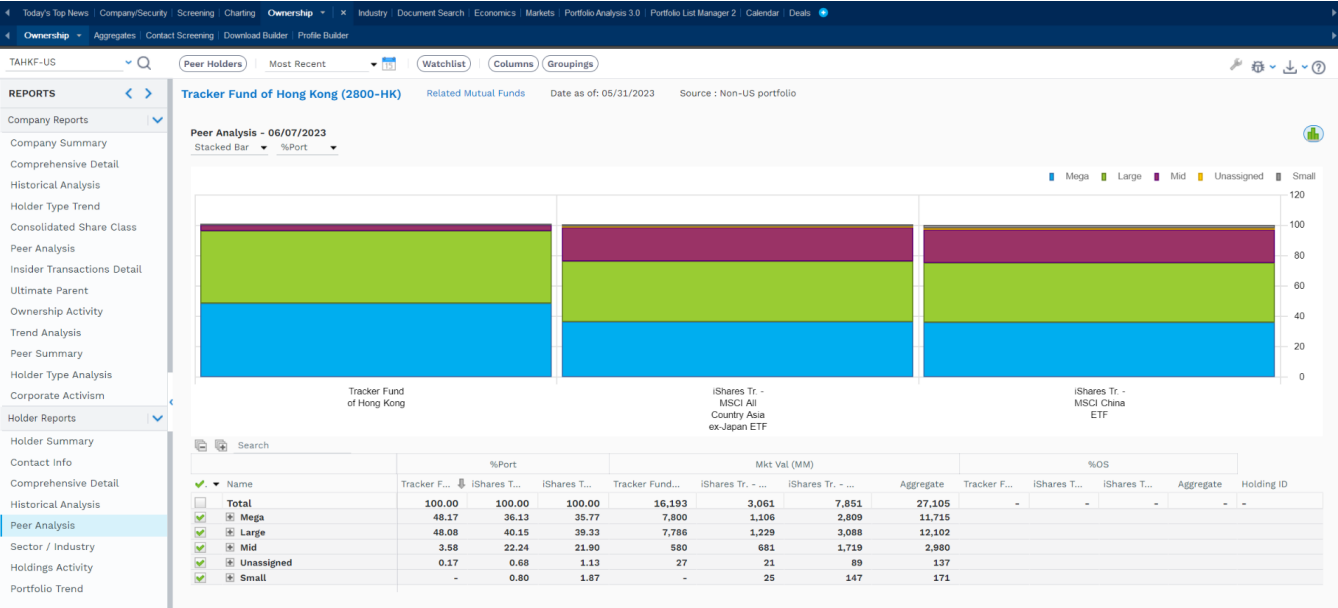
以同行的基金和自定义图表进行时间序列分析。

- Transparency**
Historical mutual fund coverage is clean. User able to track funds' holdings or holder of companies with precise source and methodology

透明度

拥有精确的公募基金历史数据。用户能够透过精确的来源和方法论追踪基金持仓和其投资者。





1.12 FactSet People - @PPL

- The People reports enable you to research information about officers and directors affiliated with public companies, private companies, and private equity firms. In addition to information such as employment history and compensation, you have access to relationships (both corporate and non-corporate) and filings. You can also plot connections between people and firms.

People 报告帮助您研究有关与上市公司、私营公司和私募股权公司有关的高级职员和董事的信息。除了工作经历和薪酬等信息外，您还可以访问关系（公司和非公司）和文件。您还可以绘制人与公司之间的联系。

- Personal Background**

Drill down to access additional information, such as employment, board history, contact details, and biographies

个人背景

深入查阅各持份者的信息，如就业记录、董事会历史、联系细节和个人简介。

- Analyst Coverage**

The Analyst Snapshot report integrates information from FactSet Research Connect (FRC), FactSet Estimates (FE), and FactSet Models (FRM). It's helpful for tracking your favorite analysts' estimates and research reports

分析员覆盖面

Analyst Snapshot 报告整合来自 FactSet Research Connect (FRC)、FactSet Estimates (FE) 和 FactSet Models (FRM) 的资讯。这有助于追踪你最喜欢的分析员的估计和研究报告。

- Insider Holdings**

Insider Transactions link directly to a specific transaction's Form 4 and each holding's Company Snapshot

内幕控股

Insider Transactions 直接链接到特定交易的 Form 4 和每个被持有者的 Company Snapshot。

- Portfolio Manager Holdings**

The Portfolio Manager Snapshot report integrates Ownership fund data and provides direct links to the Ownership 3.0 application

投资组合经理控股

Portfolio Manager Snapshot 整合了所有权基金数据，并可以直接链接到 Ownership 页面功能。

The screenshot displays the FactSet People report for Sky Hong. The report is organized into several sections: Biography, Employment History, Education, Colleagues, and Research Coverage. The Biography section provides a brief overview of Mr. Sky Hong's role at UBS Securities Co. Ltd. The Employment History section lists his previous roles at UBS Securities Co. Ltd., Deutsche Bank AG (Hong Kong), and Deutsche Bank AG (China). The Education section shows his degree from the University of Hong Kong. The Colleagues section lists other analysts at UBS Securities Co. Ltd. The Research Coverage section provides a detailed table of research reports, including the company name, target price change, EPS estimate change, rating, morning notes, initiating coverage, earnings views, and model.

Research Reports	Company Name	Tgt Price Chg (%)	EPS Est Chg (%)	Rating	Morning Notes	Initiating Coverage	Earnings Views	Model
669-HK	Tachion Industries Co., Ltd.	0.0	0.0	Buy	-	-	-	-
309138-CN	Chengyang Biotech Group Co., Ltd. Class A	-	-	Buy	-	-	-	-
002585-CN	Jiangsu Shuangxin Color Plastic New Materials Co., Ltd. Class A	0.0	-	Buy	-	-	-	-
002706-CN	Shanghai Liangxin Electrical Co., Ltd. Class A	-10.0	1.6	Buy	-	-	-	-
300487-CN	Sunresin New Materials Co., Ltd. Class A	9.1	-3.1	Buy	-	-	-	-
300470-CN	Sinosol Holding Co., Ltd. Class A	0.0	0.0	Buy	-	-	-	-
300685-CN	Amoy Diagnostics Co., Ltd. Class A	0.0	0.0	Buy	-	-	-	-
002810-CN	Shandong Head Group Co., Ltd. Class A	-6.3	-27.2	Buy	-	-	-	-
603583-CN	Zhejiang Jiechang Linear Motion Technology Co., Ltd. Class A	-45.1	-30.8	Buy	-	-	-	-
688016-CN	Shanghai MicroPort Endovascular MedTech Co., Ltd. Class A	-9.6	-8.2	Buy	-	-	-	-
300910-CN	Xinxiang Richful Lube Additive Co., Ltd. Class A	0.0	0.0	Hold	-	-	-	-
688556-CN	Qingdao Gaoce Technology Co., Ltd. Class A	-28.7	-28.6	Buy	-	-	-	-
688700-CN	Kunshan Dongwei Technology Co., Ltd. Class A	-32.5	-32.4	Buy	-	-	-	-

FACTSET | Dashboard | Today's Top News | Markets | Portfolio Analytics | Company/Security | Charting (Web) | News | Document Search | Calendar | Screening | Economics | Ownership | Industry | People | x

People | Management Changes

05F520-E

REPORTS | Overview | Snapshot | Relationships | Ownership

Tim Cook Age: 61 Chief Executive Officer & Director

Biography

Timothy Donald Cook holds the position of Chief Executive Officer & Director at Apple, Inc. Mr. Cook is also on the board of NIKE, Inc., Duke University, The National Football Foundation & College Hall of Fame, Inc. and Robert F. Kennedy Human Rights. In the past Mr. Cook held the position of Director-North American Fulfillment at International Business Machines Corp., Vice President-Corporate Materials at Compaq Computer Corp. and COO-Reseller Division & Senior VP-Fulfillment at Intelligent Electronics, Inc. Mr. Cook received an MBA from Duke University and an undergraduate degree from... More

Source: FactSet People

Current Contact Information

Company: Apple, Inc.
Position: Chief Executive Officer & Director
Address: One Apple Park Way
Cupertino, CA 95014-2083
United States
Email: -
Phone: 1.408.996.1010
Fax: -
Source: FactSet People

Employment History

Period with Firm	Firm - (Most Recent Title)	Yrs w/Firm
Mar 1996 - Present	Apple, Inc. - (Chief Executive Officer & Director)	25+
Jan 1997 - Jan 1998	Compaq Computer Corp. - (Vice President-Corporate Materials)	1+
Jan 1997 - Jan 1997	Intelligent Electronics, Inc. - (COO-Reseller Division & Senior VP-...)	0+
Jan 1983 - Jan 1994	International Business Machines Corp. - (Director-North American ...)	11+

Source: FactSet People

Board History

Period with Board	Firm - (Most Recent Title)	Yrs w/Firm
Apr 2016 - Present	Robert F. Kennedy Human Rights - (Director)	7+
Jan 2015 - Present	Duke University - (Trustee)	8+
Aug 2010 - Present	The National Football Foundation & College Hall of Fame, Inc. - (...)	12+
Nov 2005 - Present	NIKE, Inc. - (Lead Independent Director)	17+
Aug 2011 - Present	Apple, Inc. - (Chief Executive Officer & Director)	11+

Source: FactSet People

Compensation History

	2020	2021	2022
Total Overall Compensation	\$14,769,259	\$98,734,394	\$99,420,097
Total - Apple, Inc.	14,769,259	98,734,394	99,420,097
Salary	3,000,000	3,000,000	3,000,000
Bonus	-	-	-
Stock Awards	-	82,347,835	82,994,164
Option Awards	-	-	-
Change in Pension Value	-	-	-
Non-Qualified Comp Earnings	-	-	-

Source: FactSet People

Relationships

Arthur D. Levinson
Independent Chairman
Apple, Inc.

Marc Adam Spitzer
Co-Chairman
Robert F. Kennedy Human Rights

Jack O. Boverder
Chairman-Trustee
Duke University

Archie Manning
Chairman
The National Football Foundation & College Hall of Fame, Inc.

Source: FactSet People

Insider Holdings

Holding	Position	Options/Indirect	Source
Apple Inc Com	AAPL	3,280,052	0 Form 4 Chgs Ben Ownership
Nike Inc Cl B	NKE	34,443	14,000 Form 4 Chgs Ben Ownership

Source: FactSet Ownership

FACTSET | Dashboard | Today's Top News | Markets | Portfolio Analytics | Company/Security | Charting (Web) | News | Document Search | Calendar | Screening | Economics | Ownership | Industry | People | x

People | Management Changes

cook timothy donald | Watchlist | USD

REPORTS | Overview | Snapshot | Relationships | Ownership | Holder Summary | Portfolio Trend

COOK TIMOTHY DONALD Date as of: 04/03/2023

Holder Information

Holder Type: Individual

Number of Holdings: 4

Total Market Value (MM): 591

Top 5 Buys / Sells [6M]

	%Port	Mkt Val Chg (MM)
Largest Buys	99.38	0
Apple Inc Com	99.38	0
No Sells	-	-

Sector Analysis

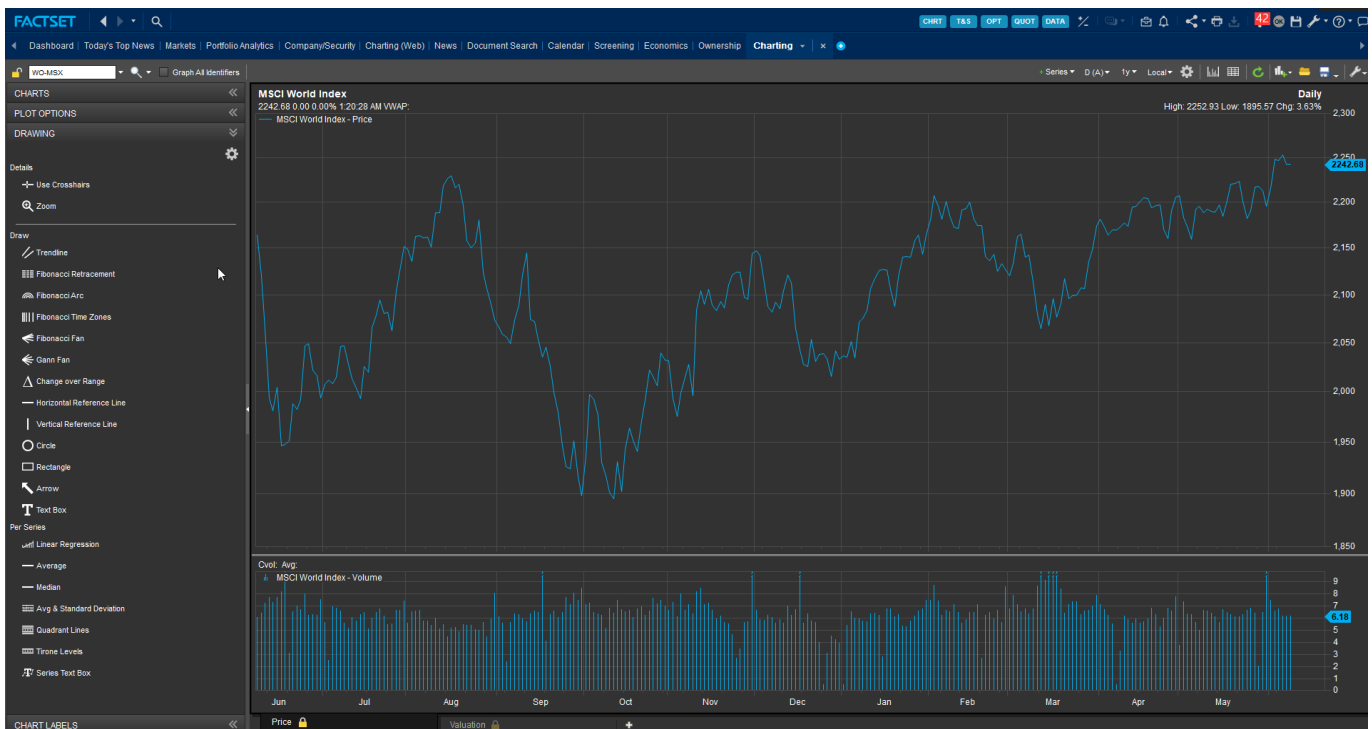
Electronic Technology (99.38)
Consumer Non-Durables (0.62)
Unassigned (0.00)
Technology Services (0.00)

Holdings by Market Value

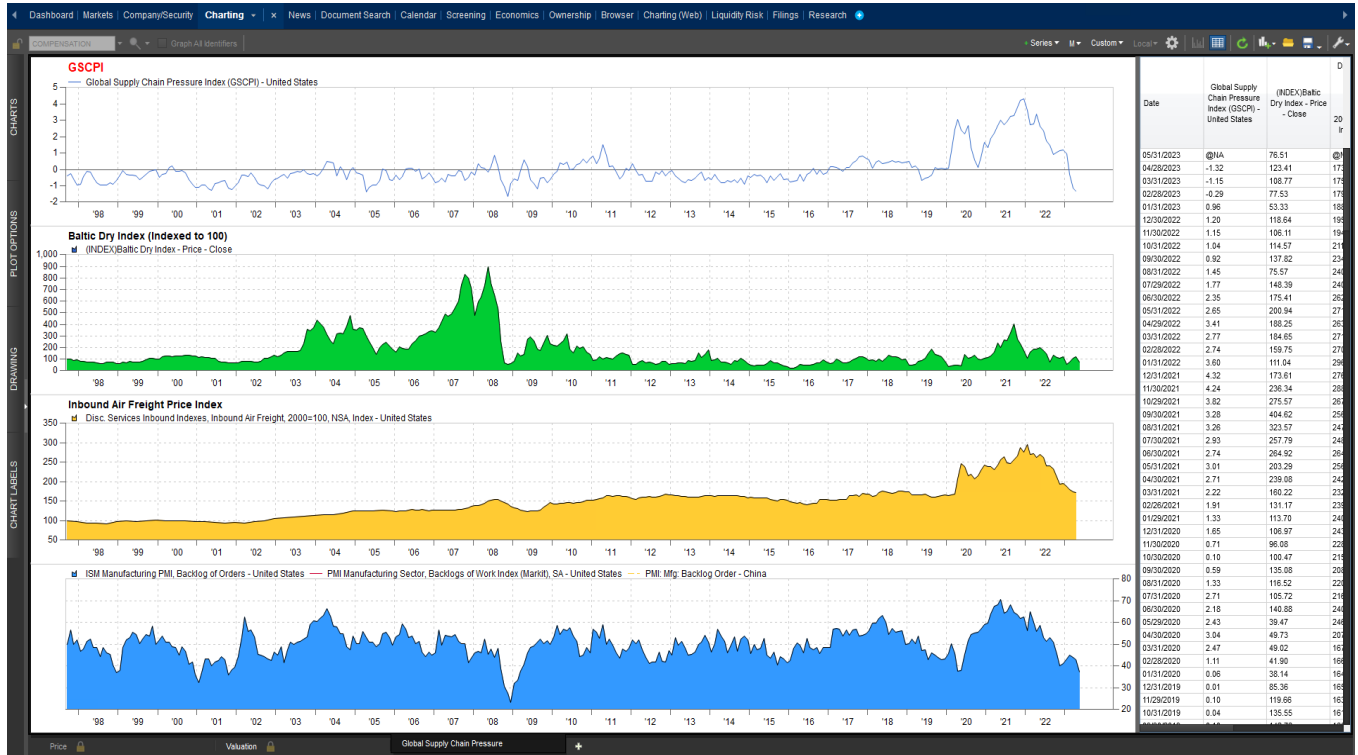
	EQ %Port	EQ %Port Chg [6M]	Mkt Val (MM)	Mkt Val Chg (MM) [6M]	%OS	%OS Chg [6M]	Pos (000)	Pos Chg (000) [6M]	Opt/Ind Shares (000)	Fully Dil Shares (000)	Report Date	Ticker
Total	100.00	0.00	591	0	-	-	-	-	-	-	-	-
Apple Inc Com	99.38	0.15	588	0	0.02	0.00	3,280	0	0	3,280	04/03/2023	AAPL-US
Nike Inc Cl B	0.62	-0.15	4	0	0.00	0.00	34	0	14	48	09/09/2022	NKE-US

1.13 Interactive Charting - @IC

- Use Interactive Charting to create flexible charts depicting company and non-company data
以 Interactive Charting 创建描述公司和非公司数据的灵活图表。
- Interactive Charting can be integrated into other applications internally or externally, like Watchlist or MS Office
Interactive Charting 制作的图标能输出到其他内部或外部的应用程序使用，如 Watchlist 或微软 Office 应用。
- Highly Customization including Style-Set, Format, Drawing Tools, Series Transformation, etc.
图表可以高度客制化，包括风格设定（Style-Set）、格式（Format）、绘图工具（Drawing Tools）、数据变换（Series Transformation）等。



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2 Portfolio Management (Monitoring Daily)

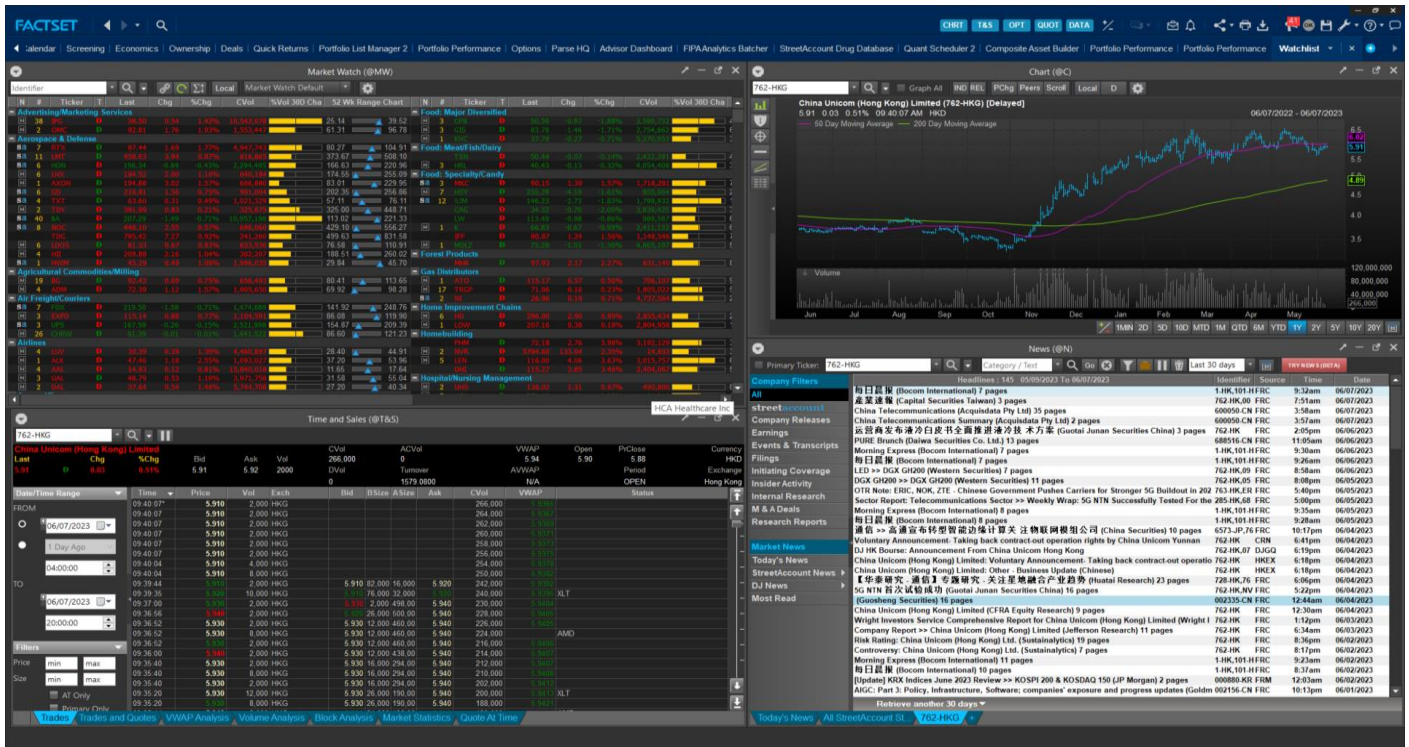
2.1 Watchlist - @MW

- Monitoring Investment Ideas

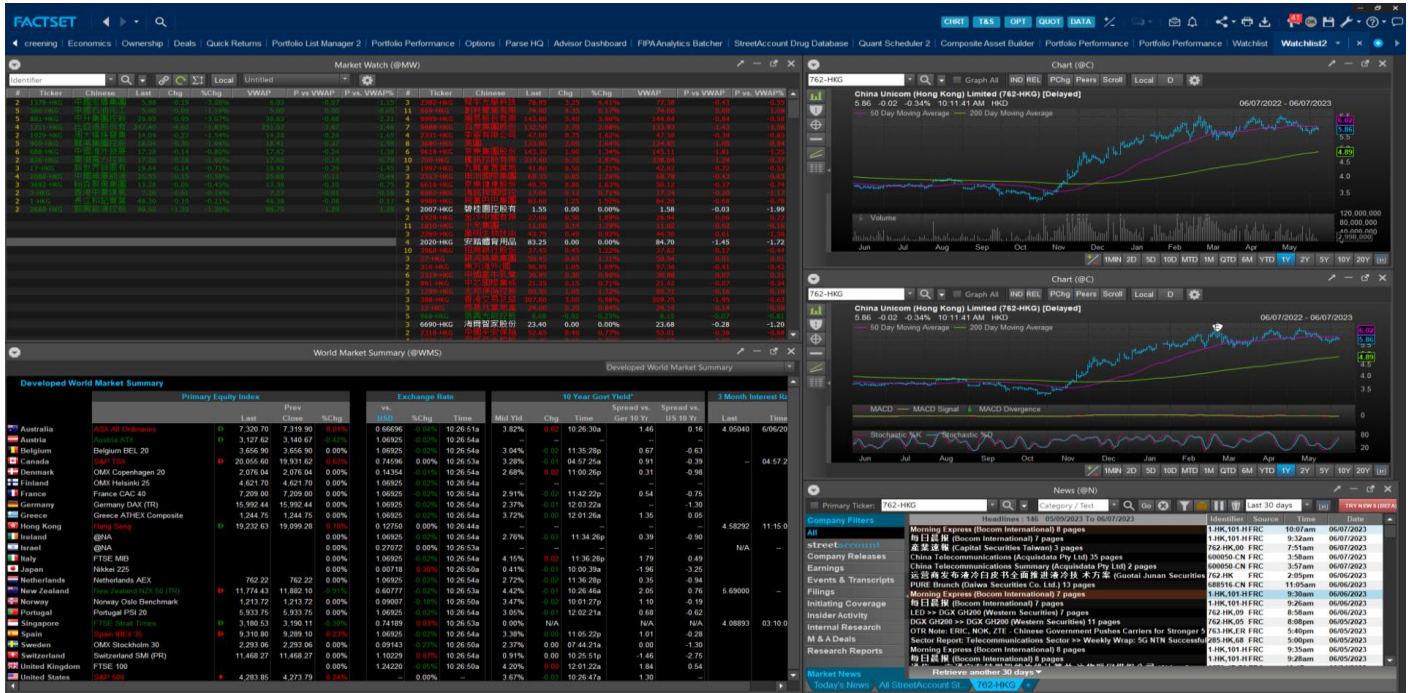
Monitor market data for securities, such as companies, indices, treasuries, currencies, futures, and commodities. You can manually enter identifiers, open an existing ticker list, or view Universal Screening results

- Customized Layout

Apart from customized columns, groupings and charts, you can also customized the layout of this tab with various applications from FactSet, like Long Quote, News, Screening, Times and Sales, etc.



FACTSET SEE THE ADVANTAGE



2.2 Portfolio View - @PV

- Monitoring Portfolios in Real Time

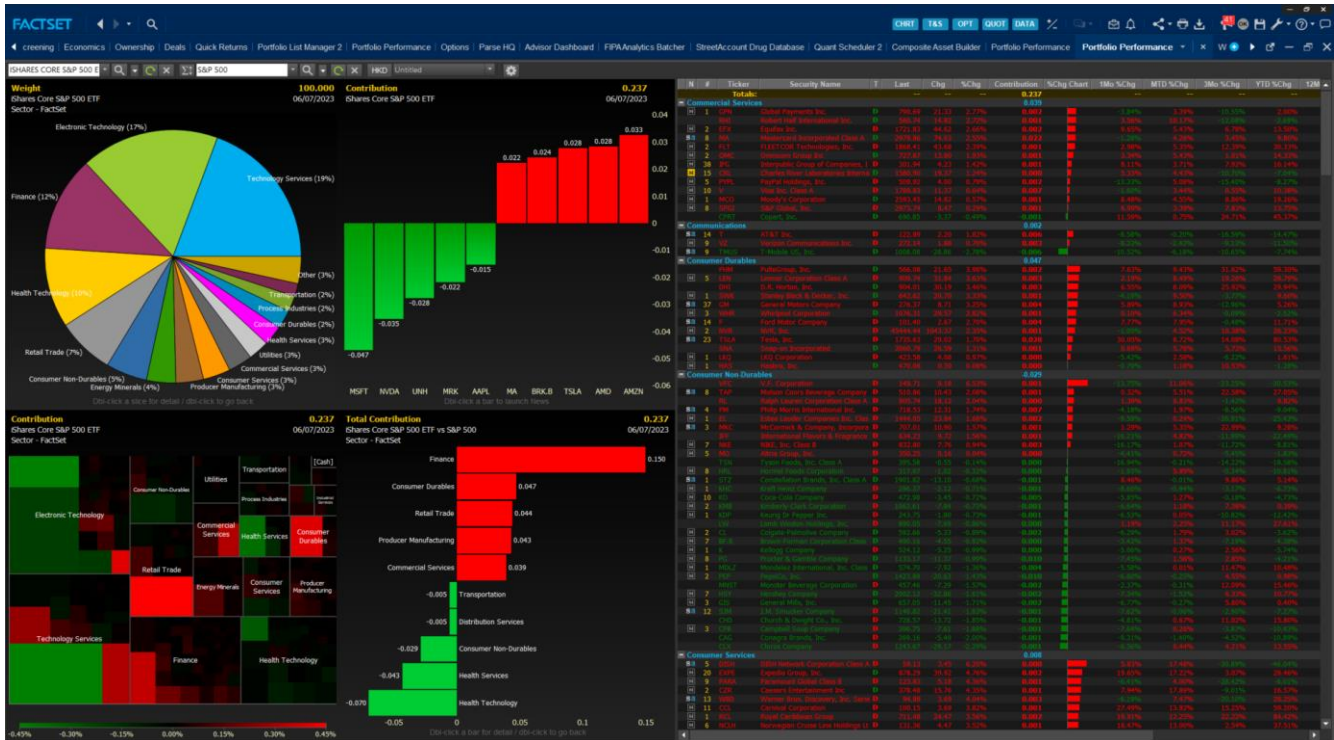
Displays real-time data such as price, percent change, and intraday contribution on an absolute and/or relative basis. You can also view dynamically changing charts for your portfolio and/or benchmark at the security or group level

- Portfolio Version of Watchlist

Customizations in Watchlist can also be done in Portfolio View

- Multiple Portfolios

It's also available for multiple portfolios and benchmarks, as well as multiple funds. This makes it easier to analyze a data item for a company across portfolios





2.3 Market Intelligence - @MI

- Market Intelligence is a powerful publishing tool that allows you to combine market, economic and portfolio-specific news & market data into a single email or PDF. You can choose exactly what goes into your report and schedule it to be delivered to your email on a daily or weekly basis. This report is available for portfolios, watchlist, benchmarks and mutual funds

FACTSET - Preview Document

Today's Top News : MARKET SYNOPSIS Updated: 10:25 AM (EST/EDT), 20 Jan '22

S&P futures higher:
1/19/22 5:54:40 AM

- **SAP Futures** = 0.3% in Wednesday morning trading after US equities closed on Tuesday with all the major indexes down below 1.5% and the Nasdaq off more than 2.5% and nearly 10% below its 15-Month closing high. **Treasuries** were again with 1-year yields just below 1.90%. **Dollar** weaker on the major crosses after the dollar index gained over 0.5% on Tuesday. **Gold** up 0.3%. **Bitcoin** futures down 0.7%. **WTI** crude up 1.2%.
- **Bond yield backup continues to dominate the headlines** though nothing particularly incremental. Reports remain focused on the extent to which the Fed will have more room for the move, underpinned by the Fed's hawkish policy shift. Also more scrutiny on the negative spillover effects for the riskier pockets of the market that have been outsized beneficiaries of the central bank liquidity tailwind. **Dampened fiscal policy support**, margin headwinds from higher expenses/wages, and dampened earnings revision momentum among some of the other widely discussed overhangs. At the same time, some strategists continue to point out that earnings and stocks tend to benefit from higher yields.
- **Volatility** on the headline perspective. More speculation about the potential for a 50 bp rate hike in March from the Fed, though Street seems skeptical. **German 10-year Bund** yields turned positive for first time since 2019 **UK inflation** surprised to the upside in December, hitting a 30-year high. Bloomberg highlighted the **dovish takeaways** from Tuesday's **PBOC press conference**, where it pledged to use more policy tools to underpin the economy. Reuters reported the **China to require large Internet companies to secure approval before they undertake** any new future plans to expand overseas.
- **BAC-US** = EPS beat with IB and loans among bright spots, while it also said expenses would remain flatish vs 2021. **PG-US** = organic growth better and raised organic growth guidance, though also flagged continued cost headwinds. **USB-US** = missed with NII, NIM, fees and expenses all down. **AADS-US** hit on news **BJ-US** to use its valuable credit card partnership to **COF-US**. **ASML-US** = boosted by strong Q4 orders and guidance for 20% revenue growth in 2022. **FUS** = to make \$85+ gain from investment in **RWIN-US**. **JHT-US** = earnings helped by price increase. **GRUB-US**.

Event Calendar(1D): Conferences And Webcasts(Conferences by Participant) Updated: 10:25 AM (EST/EDT), 20 Jan '22

Company	Date	Time (EST)	Event Type	Calendar	Company Book
NVDA-US <i>NVIDIA Corp.</i>	01/25/2022	Unspecified	Manifest Conference		
NVDA-US <i>NVIDIA Corp.</i>	01/26/2022	Unspecified	Distributed Conference		

Event Calendar(1D): Financial Releases(Confirmed) Updated: 10:25 AM (EST/EDT), 20 Jan '22

Company	Date	Time (EST)	Event Type	Calendar	Company Book
UNP-US <i>Union Pacific Corp.</i>	01/20/2022	8:00 AM	Q4 2021 Earnings Release		
NFLX-US <i>Netflix, Inc.</i>	01/20/2022	4:00 PM	Q4 2021 Earnings Release		

Price Performance: PRICE GAINERS/US POST MARKET Updated: 10:25 AM (EST/EDT) 20 Jan '22

Company	PrevClose (LOCAL)	Off-Hr Chg (LOCAL)	Off-Hr %Chg	Off-Hr cVol	Tick
CHTR-USA <i>Charter Communications, Inc. Class A</i>	572.16	3.31	0.58	44,841	DL
CMCSA-USA <i>Comcast Corporation Class A</i>	50.22	0.27	0.54	2,615,993	DL
TXN-USA <i>Texas Instruments Incorporated</i>	173.45	0.55	0.31	586,324	DL
DIS-USA <i>Walt Disney Company</i>	147.62	0.42	0.31	1,020,463	DL
BIB-USA <i>Biogen Inc.</i>	225.91	0.52	0.24	537,349	DL
EXC-USA <i>Exelon Corporation</i>	56.98	0.10	0.18	263,861	DL
COST-USA <i>Costco Wholesale Corporation</i>	482.82	0.67	0.14	290,273	DL
BK-USA <i>Bank of New York Mellon Corporation</i>	59.92	0.08	0.14	298,939	DL
HD-USA <i>Home Depot, Inc.</i>	349.58	0.40	0.11	286,662	DL
MSFT-USA <i>Microsoft Corporation</i>	301.60	0.27	0.09	3,007,258	DL
TMUS-USA <i>T-Mobile US, Inc.</i>	104.06	0.07	0.07	538,368	DL
HON-USA <i>Honeywell International Inc.</i>	208.92	0.07	0.03	146,715	DL
MIDLZ-USA <i>Mondelēz International, Inc. Class A</i>	67.76	0.01	0.01	391,050	DL

Notes: Tick type descriptions

Notes: Tick type descriptions
RT = real time **DL** = delayed **SNAP** = real time snapshot **EOD** = end of day **NONE** = no access or invalid ticker

Price Performance: PRICE LOSERS (US POST MARKET) Updated: 10:25 AM (EST/EDT) 20 Jan '22

Company	PrevClose (LOCAL)	Off-Hr Chg (LOCAL)	Off-Hr %Chg	Off-Hr cVol	Tick
NKE-USA <i>NIKE, Inc. Class B</i>	142.73	-1.75	-1.22	343,537	DL
EMR-USA <i>Emerson Electric Co.</i>	93.65	-1.03	-1.11	48,271	DL
F-USA <i>Ford Motor Company</i>	21.65	-0.23	-1.11	1,149,689	DL
NVDA-USA <i>NVIDIA Corporation</i>	241.50	-2.49	-1.07	1,365,169	DL
PFE-USA <i>Pfizer Inc.</i>	54.05	-0.49	-0.93	2,256,839	DL
TSLA-USA <i>Tesla Inc</i>	996.27	-7.90	-0.84	721,365	DL
WFC-USA <i>Wells Fargo & Company</i>	55.00	-0.44	-0.82	1,141,163	DL
AMZN-USA <i>Amazon.com, Inc.</i>	3,033.35	-22.86	-0.80	270,898	DL
PYPL-USA <i>PayPal Holdings, Inc.</i>	173.28	-1.29	-0.79	673,622	DL
GM-USA <i>General Motors Company</i>	54.65	-0.39	-0.73	445,990	DL
GOOGL-USA <i>Alphabet Inc. Class A</i>	2,896.15	-18.03	-0.69	84,554	DL
DD-USA <i>DuPont de Nemours, Inc.</i>	79.18	-0.47	-0.61	33,196	DL
COF-USA <i>Capital One Financial Corporation</i>	150.27	-0.88	-0.60	88,295	DL
NEE-USA <i>Norfolk-Energy, Inc.</i>	83.51	-0.49	-0.59	1,789,565	DL
WBA-USA <i>Walgreens Boots Alliance Inc</i>	53.18	-0.30	-0.57	188,992	DL
MDT-USA <i>Medtronic Plc</i>	106.11	-0.60	-0.57	128,838	DL
DHR-USA <i>Danaher Corporation</i>	282.96	-1.57	-0.56	287,084	DL
BA-USA <i>Boeing Company</i>	214.19	-1.14	-0.55	354,222	DL
C-USA <i>Citigroup Inc.</i>	64.48	-0.34	-0.54	868,742	DL
ORCL-USA <i>Oracle Corporation</i>	82.72	-0.42	-0.51	199,817	DL

Notes: Tick type descriptions

Notes: Tick type descriptions
 RT = real time DL = delayed SNAP = real time snapshot EOD = end of day NONE = no access or invalid ticker

Estimate Monitor Updated: 10:25 AM (EST/EDT), 20 Jan '22					
Company	Broker & Analyst	Period/Item	Value (LOCAL)	Prev Val. (LOCAL)	Rev.
AAPL-USA Apple Inc.	DA Davidson, Tom Forte	FY '22 EPS	5.39	5.50	-2.00%
AAPL-USA Apple Inc.	Evercore ISI, Amit Daryanani	Q2 '22 EPS	1.25	1.52	-17.76%
ABBV-USA AbbVie, Inc.	Barclays, Carter Gould	Target Price	133.00	118.00	12.71%
ABT-USA Abbott Laboratories	JP Morgan, Robbie Marcus	Q4 '21 EPS	1.24	1.16	7.16%

2.4 FactSet Mobile – App Store & Google Play Android

- Monitoring Portfolios in iPhone, iPad, Android, BlackBerry**
FactSet Mobile allows you to access up to date market information, charts, news, and research reports on a universe of companies, funds, and indices. You can also view the portfolios and watchlists you've linked on FactSet
- Portfolio Analysis in iPad**
Apart from Portfolio Monitoring, Portfolio Analysis and Portfolio Dashboard can also be viewed under FactSet iPad

14:08 5G 75%

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HOLDINGS NEWS IRN

ID	Price	Chg	%
PFE-USA Pfizer Inc.	38.47	0.10	0.26
JNJ-USA Johnson & Jo...	158.02	-0.16	-0.10
LLY-USA Eli Lilly and C...	442.59	-0.48	-0.11
ROG-SWX Roche Holdin...	-	-	-
ABBV-USA AbbVie, Inc.	135.44	0.01	0.01
MRK-USA Merck & Co., I...	110.10	0.09	0.08
NOVN-SWX Novartis AG	-	-	-
NOVO-B-CSE Novo Nordisk...	-	-	-
AZN-LON AstraZeneca...	-	-	-
BMJ-USA Bristol-Myers...	65.65	0.17	0.26

14:08 5G 75%

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HOLDINGS NEWS IRN

Results limited to: StreetAccount

1:54 PM | ABBV-USA
Muddy Waters remains short Chinook Therapeutics, says company's financials are misleading (\$24.77, 0.00) [SA]

10:23 AM | BMJ-USA
NICE does not recommend Kite Pharma's Yescarta to treat relapsed or refractory follicular lymphoma (\$76.20, 0.00) [SA]

10:15 AM | BMJ-USA
NICE recommends Kite Pharma's Yescarta to treat relapsed or refractory diffuse large B-cell lymphoma after first-line chemoimmunotherapy (\$76.20, 0.00) [SA]

7:57 AM | LLY-USA
US District Judge certifies class-action case for third-party payers who reimbursed for Actos between 1999 and 2010 - Bloomberg (\$4567.0000, 0) [SA]

4:31 AM | JNJ-USA
Janssen submits sBLA to FDA seeking approval of CARVYKTI for the earlier treatment of patients with relapsed or refractory multiple myeloma (\$158.18, 0.00) [SA]

06-Jun | NOVO-B-CSE
Follow-up: Paratek Pharmaceuticals to be acquired by Gurnet Point Capital and Novo Holdings for \$2.15 per share in cash, plus CVR of \$0.85 per share (\$1.96, 0.00) [SA]

14:04 5G 75%

Menu Back 700-HK IRN

REPORTS NEWS IRN

Quote

HK\$337.20 +6.00/1.81%

Bid 337.20 (21400) 1:48:51 PM

Ask 337.40 (10600) 1:48:52 PM

Volume 11.3 (M)

%30 Day Avg Vol 57.09

335.60 340.00

Open 340.00

Prior Close 331.20

52 Week Range HK\$188.63 - 416.60

30 Day Avg Vol 19.79 (M)

Mkt Cap (B) HK\$3,175.63

1W% 6.64 Beta 1.57

1M% -1.63 Dividend HK\$2.40

3M% -7.11 Yield 0.72%

YTD% 6.30 VWAP 338.20

1Y% -3.42 Ex Date 5/19/23

340.00

338.00

336.00

334.00

332.00

1,100,000

14:05 5G 75%

Menu Home Today's Top News Aa Settings Help

Market Synopsis

Asia equities mostly higher Wednesday: Nikkei (0.71%), Hang Seng +0.97%, Shanghai Composite +0.02%

- Asia equities trading mostly higher Wednesday. Upside led mainly by Hong Kong on the back of sharp gains in tech, followed by Taiwan, South Korea and Australia. Japan consolidating losses while mainland China remains mixed. US futures still generally steady, following a moderate overnight bounce in an uneventful session. Nasdaq strength continued though more of the attention went to recent Russell 2000 outperformance. Treasury yields easing in Asia trading. Dollar mostly on the soft side amid yen strength. Crude oil, gold and Bitcoin futures lower.
- No major market catalysts overnight with attention on next week's Fed meeting. Discussions continue to revolve around valuations with S&P 500 on the cusp of bull market territory. Developed market concerns over macro vulnerabilities continue with central banks maintaining a tightening stance as inflation remains elevated despite coming off its peak. Asia dynamics still highlighted by China market weakness and indications global investors are allocating new money elsewhere in the region, particularly Japan. Tuesday's reports that Chinese authorities asked major banks to cut deposit rates again resonated positively in mainland markets to some extent, though optimism was offset by weaker than expected trade data.
- In latest headlines, Secretary of State Blinken will travel to China for talks in coming weeks though no date set. Adds to positive spin on recent constructive dialogue between officials. World Bank lifted 2023 GDP forecast to acknowledge surprising resilience, though downgraded 2024 - both estimates remain bearish relative to IMF projections. Regional events today largely focused on Australia - Q1 GDP slightly missed expectations, logging softest growth since the 2021 Covid lockdown. RBA Governor Lowe echoed guidance that more tightening may be needed as inflation remains too high. China customs trade showed exports markedly weaker than expected, sustaining concerns about global and China growth momentum.

Notable Gainers:

- +31.2% GTLB-US (Gitlab): Q1 EPS beat on better revenue and operating margin performance; raised FY24 guidance across key metrics; takeaways focused on demand stabilization, more predictable Q vs Q4, improved contraction, limited competition; also positive on AI SKU.
- +28% GIII-US (G-III Apparel Group): Q1 beat and company raised FY guidance; highlighted traction behind efforts to rightsize inventory and noted that GMs were significantly better than year-earlier period.
- +17.7% THO-US (ThermoFisher Scientific): Strong earnings, revenue, and

2.5 Market Analysis - Markets

- Monitoring Markets' Movements**

The Markets tab provides a consolidated solution for analyzing market-level data for global equity indices, interest rates, Fixed Income, Commodity, ETFs and FX data

- Monitoring Fund Flow in Global Markets**

A quick, but comprehensive look into the current and historical flows and returns for exchange-traded funds (ETFs) listed in the United States. An easy way to track with the trend of money flows in various financial segments

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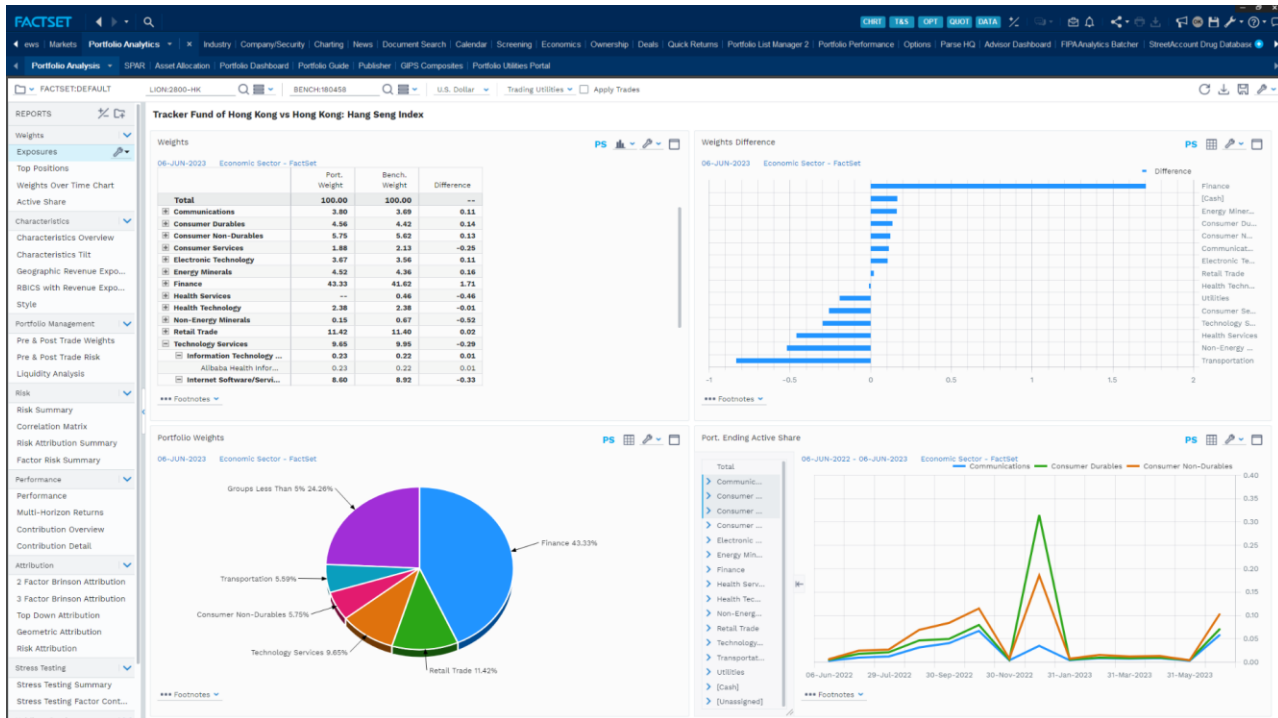
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FACTSET SEE THE ADVANTAGE

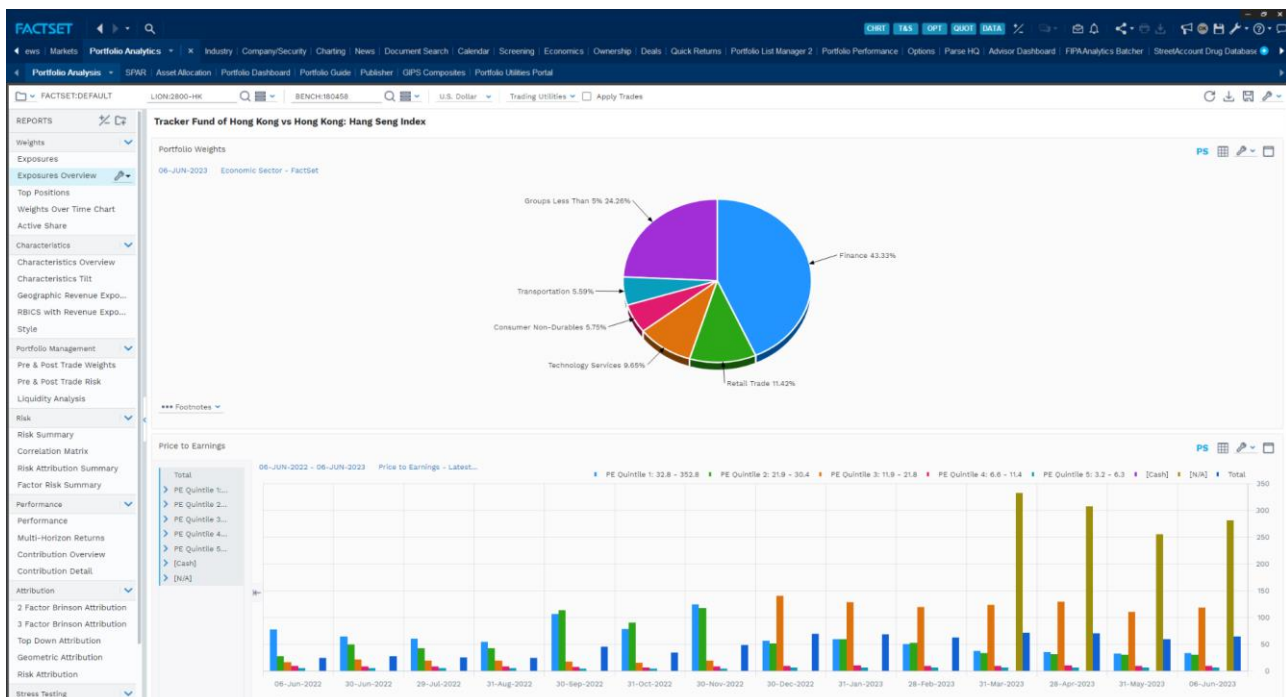
3 Portfolio Reporting & Analysis (Portfolio Analytics)

3.1 Weights Exposure - @PA3

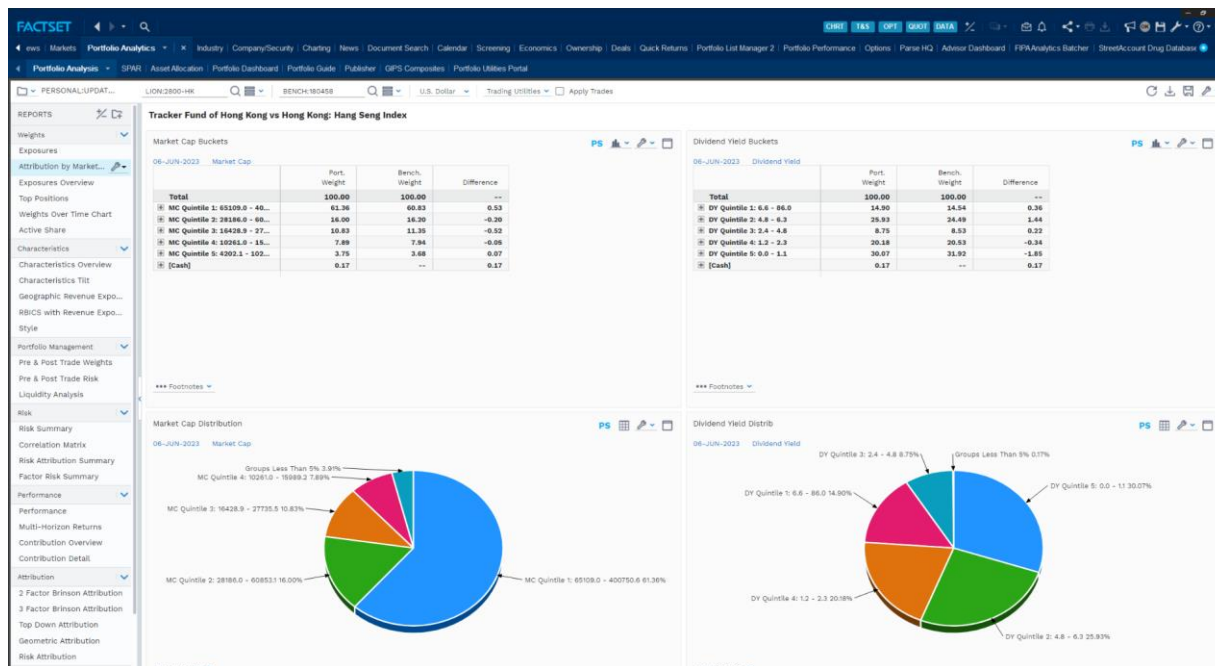
- Portfolio's Exposure with GICS Sector Classification. Report also displays the Weight Difference between Benchmark and Portfolio, as well as Active Exposure over time



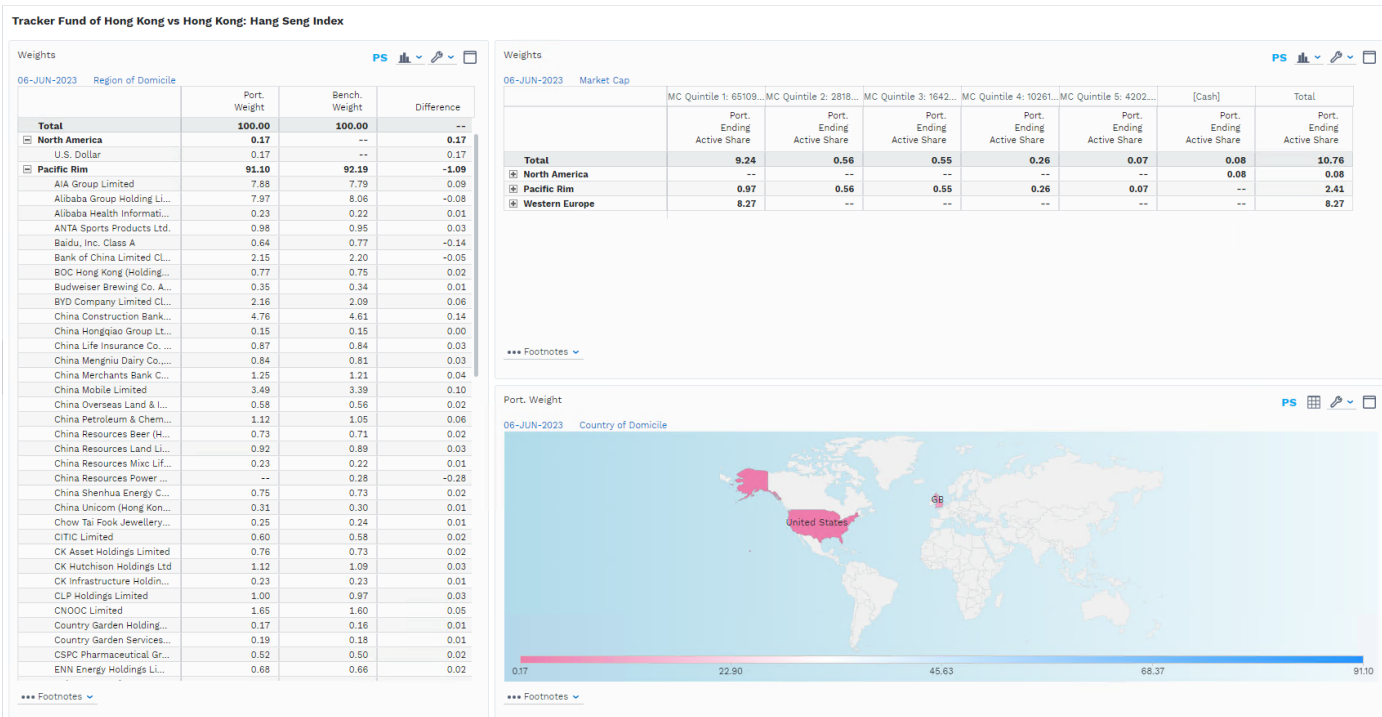
- Groupings and Charts can also be customized. Apart from Sector, we can also do Quintile in PE. As a growth fund, PE may be critical measurement, we can customize the buckets and check with the portfolio's exposure in various PE buckets.



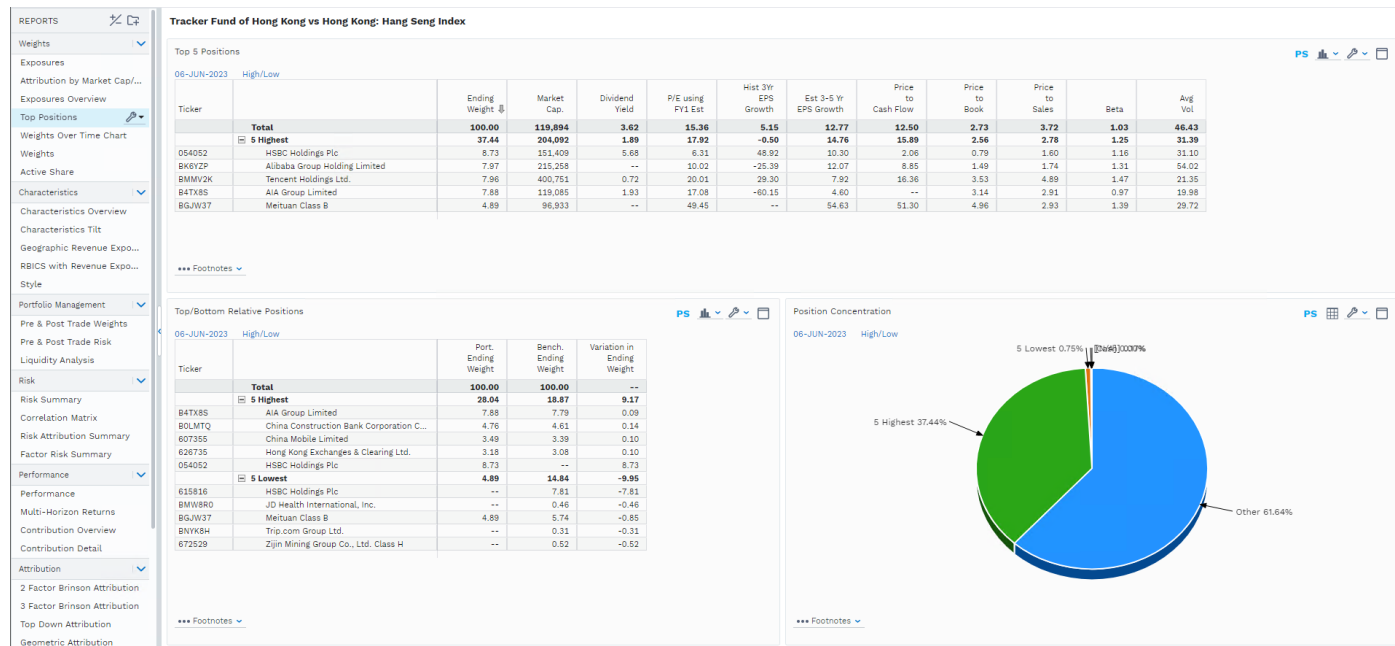
- Other customized formulas are also available like Market Cap, Dividend Yield, etc. For Fractiles, many other choices are also available like Quantile, Decile Percentile, N-tile, or even Custom



- Various Charts are available and easy to convert, above example is Geo Heat Map, it's quite useful for global portfolios



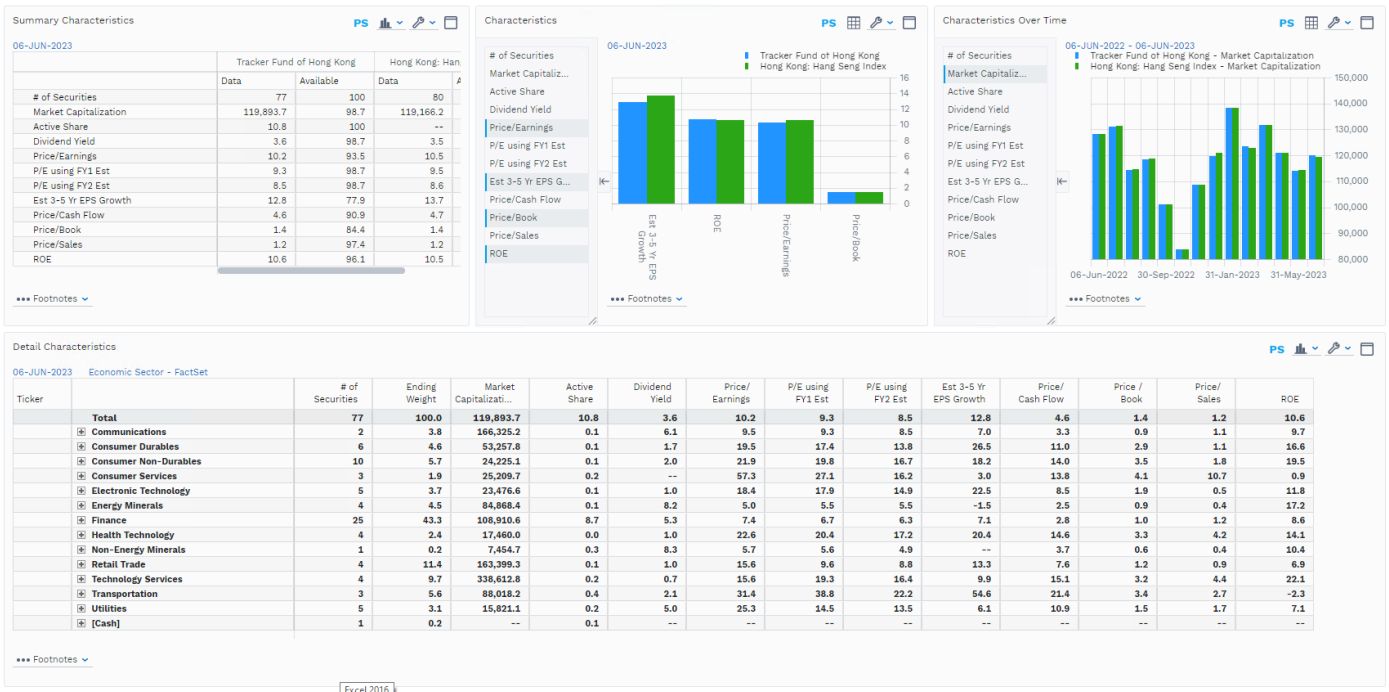
- Position Concentration can help you to monitor the percentage of the position of top few highest stocks in the whole portfolio. Besides, columns can also be customized, so you can check various data items for the high position stocks, including PE, PEG, Beta, Average Volume, etc.



3.2 Style Analysis - @PA3

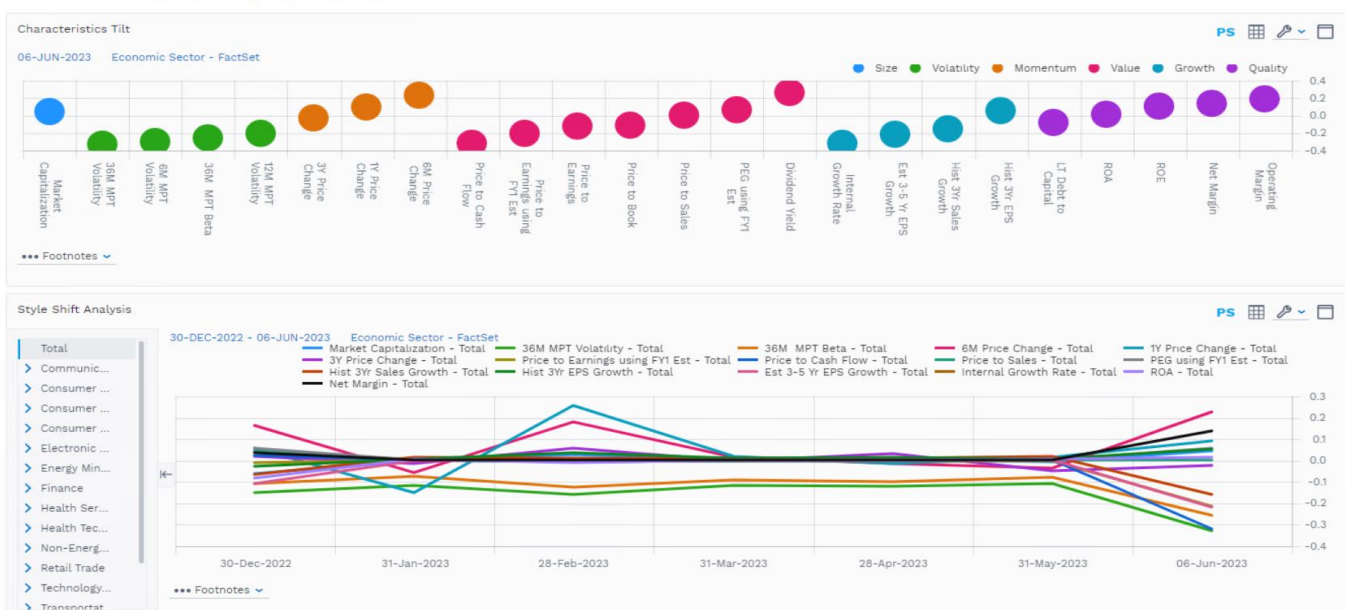
- Characteristic Overview provides a comprehensive picture for recent portfolio's characteristic, as well as changes over time, by various data items, like PEG, PE, etc. Conditional formatting is available in the table for monitoring. You can also compare the characteristic of portfolio with benchmark

Tracker Fund of Hong Kong vs Hong Kong: Hang Seng Index



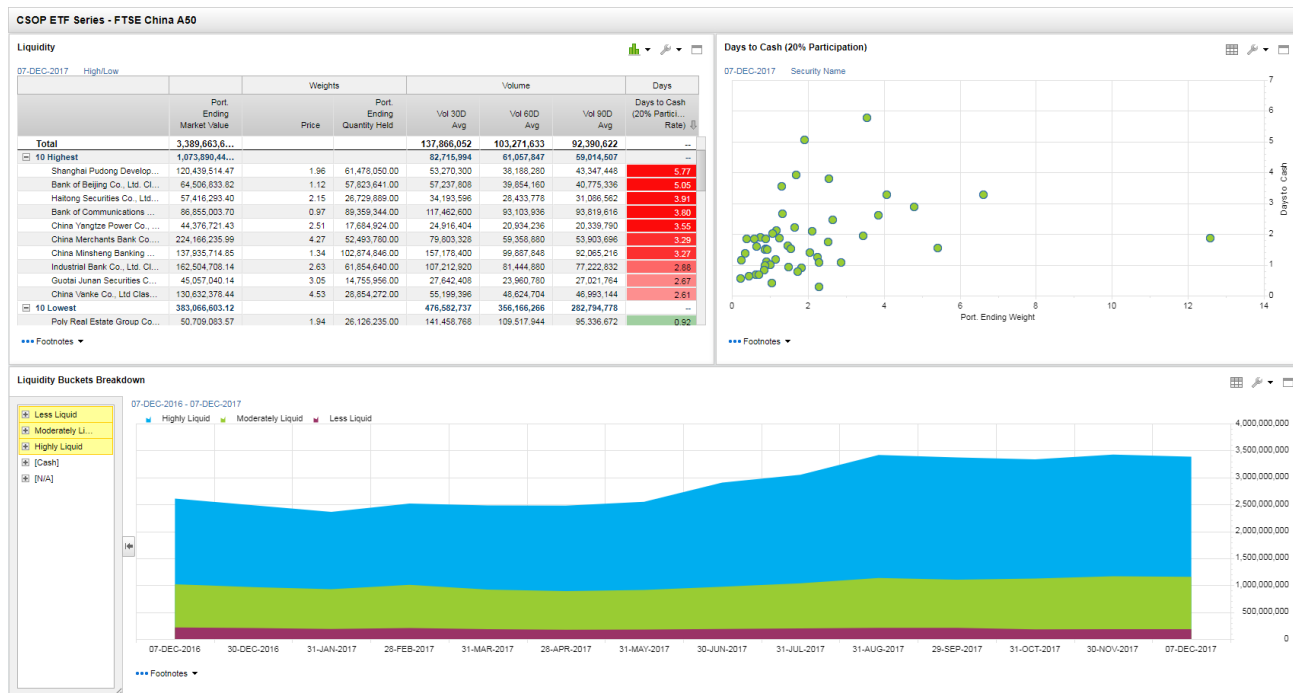
- Characteristic Tilt uses T-test to compare the portfolio's characteristic items with benchmark and group it by style, like Size, Growth, Quality, etc. It provides you a clear picture explaining whether the portfolio is aligning with benchmark. (Outside or Inside +2). What this report is doing, is determining whether there is a significance deviation of a particular style factor, compared against your selected benchmark. Quantitatively, it is using the welch's t-stat to determine this(OA 16707). You can also see the changes in these characteristic items over time by Style Shift Analysis. Sector grouping is also available

Tracker Fund of Hong Kong vs Hong Kong: Hang Seng Index



3.3 Liquidity Analysis - @PA3

- Use Days to Cash to monitor the liquidity of portfolio. Days to Cash means how many days you need to liquidate all the holdings of one security with a certain participation rate, for example 20%. It means Max Trade of the Day is selling 20% of 30D Average Daily Trading Volume in order to avoid causing huge market impact. Fund manager can be aware of some illiquid stocks in their portfolio and monitor the liquidity exposure in their portfolio by conditional formatting and custom groupings

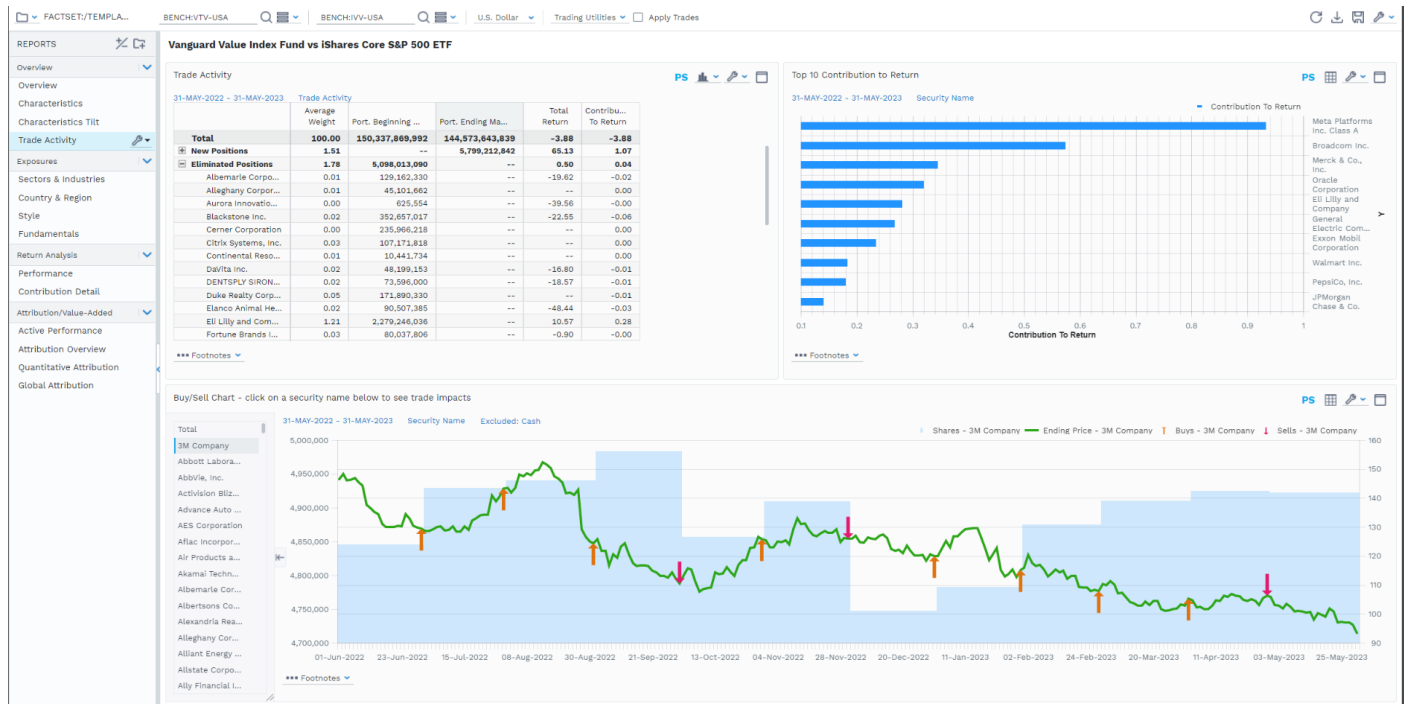


- Apart from portfolio only data, we can also calculate other customized items, like Days to Benchmark (How many days need to liquidate the holding to be benchmark weight), Liquidity Stress (Different Participation Rate), or even Liquidity Shift (Liquidity Status Changes over Time)



3.4 Trade Analysis - @PA3

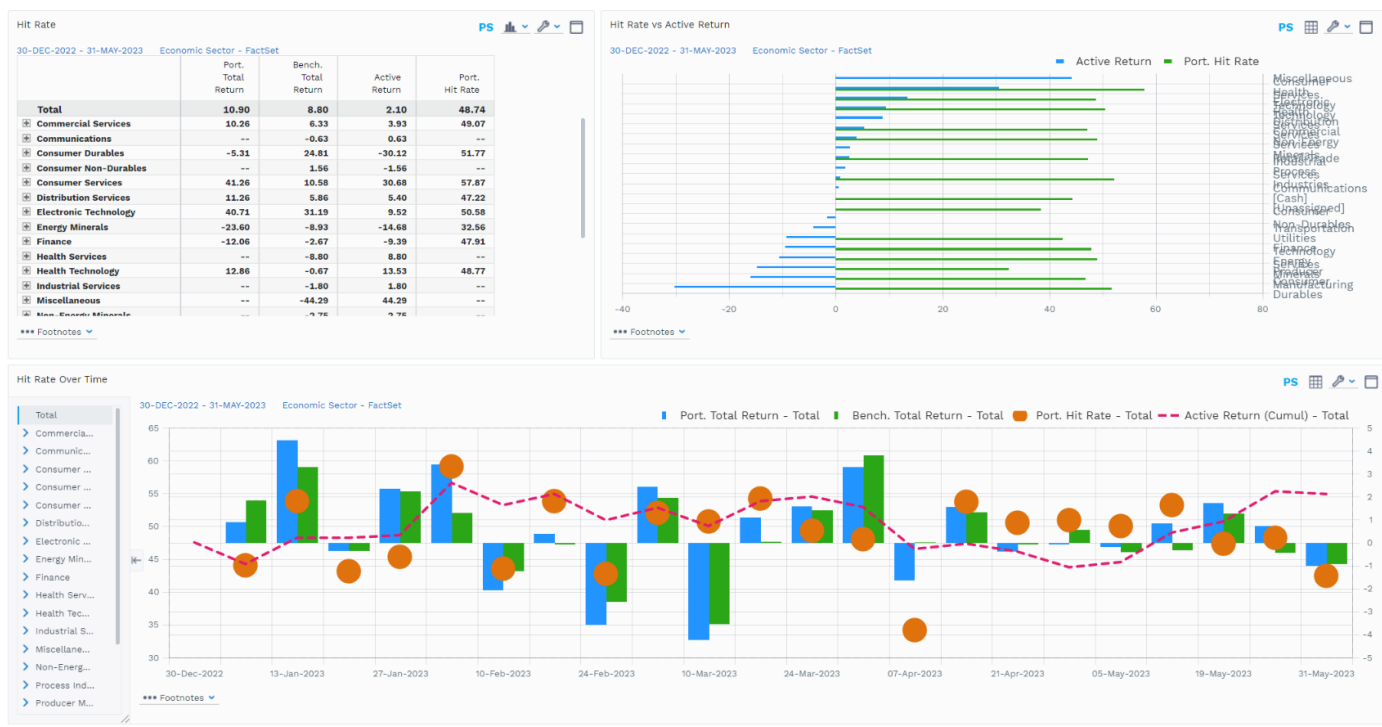
- Trade Reports can review the trade decisions made during a time period and improve trading decisions in the future. Trade Activity report provides a trade summary within that period by Position grouping, like New Positions, Increased Position, Decreased Position, etc. Buy/Sell Chart is a chart showing buy/sell decision, shares and prices for that particular period. It's helpful to review the stocks which provide good contribution return to your portfolio and try to imitate that strategy in the future. Custom series like Rank can also be added in this chart



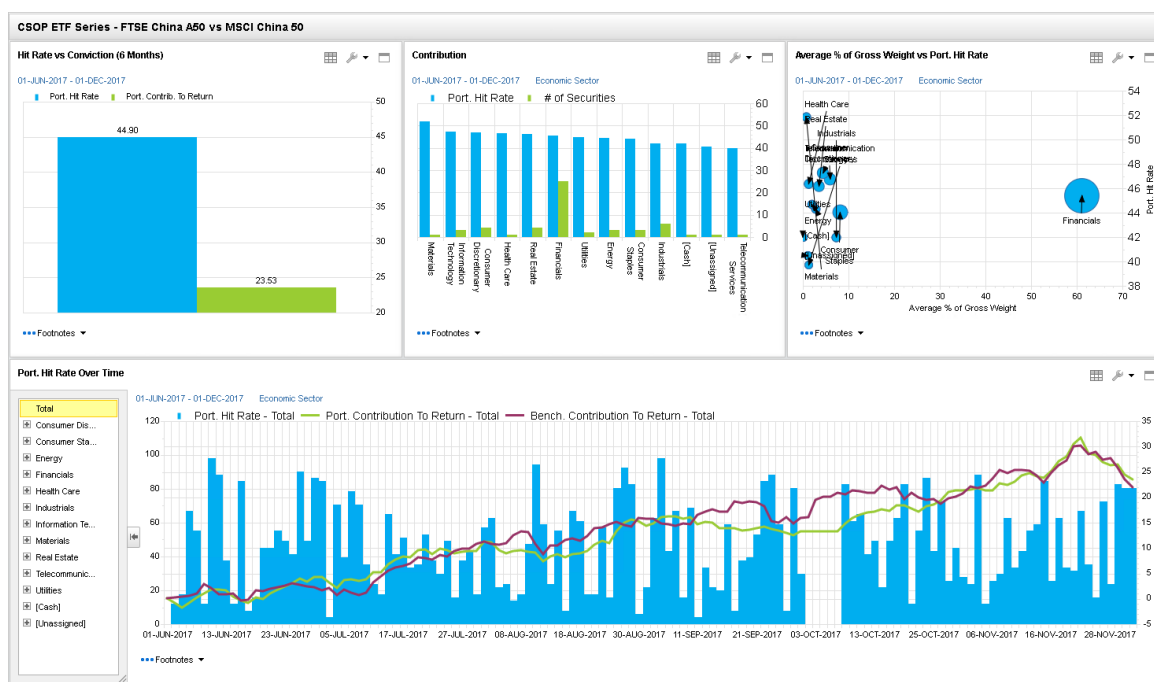
3.5 Hit Rate Analysis - @PA3

- The hit rate (or ratio) is a time-series average of the number of securities within a group that have beat the overall benchmark return for a single day. When comparing with active return, you will notice that whether you're beating the benchmark with a small or large number of winning trades, vice versa. For example, if the hit rate is low but the active return is high, it means you're beating the benchmark with a few trades but you gain a lot in these trades. With our customized grouping such as sector, fund manager will be able to measure their performance with more insights

Artisan Global Opportunities Fund vs iShares MSCI World ETF



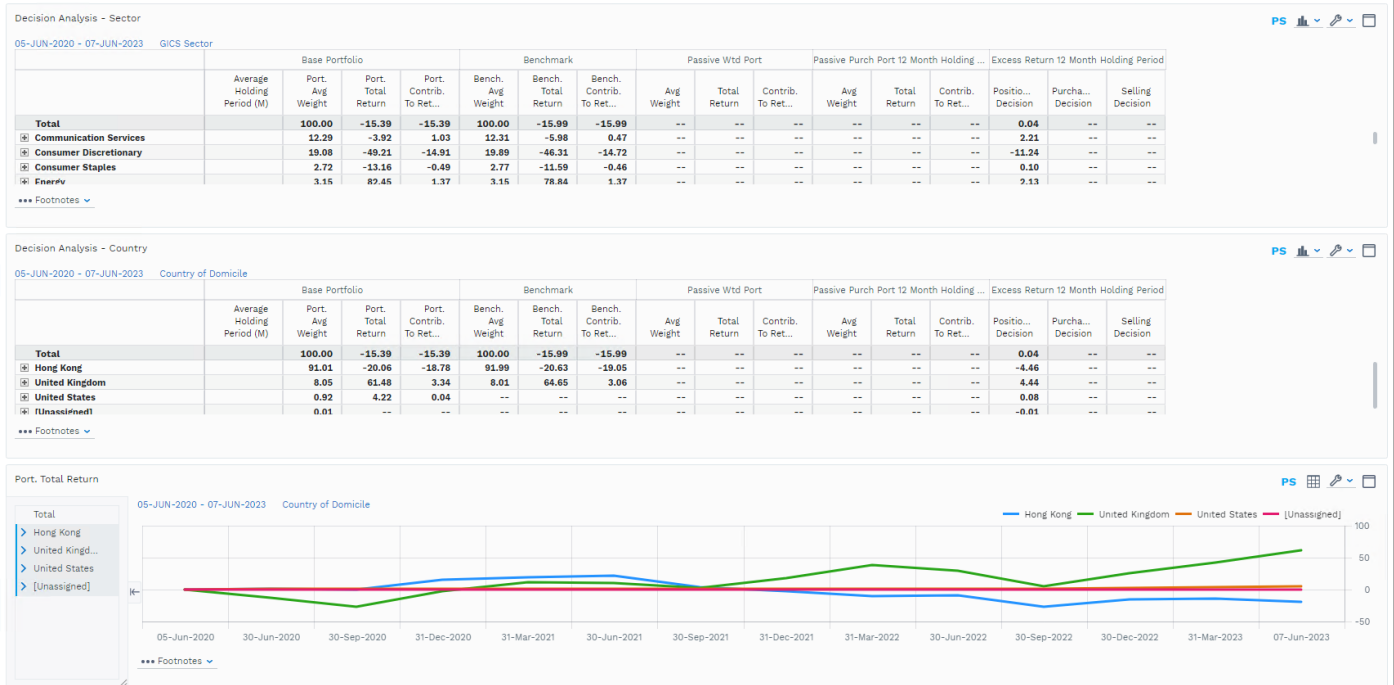
- By comparing the Hit Rate with Weight and Profit & Loss in a Bubble Chart with sector grouping, fund manager can also know whether they've outweighed in the sectors that they're good at or consider to do it more in the future.



3.6 Decision Analysis - @PA3

- Decision Analysis allows you to attribute your portfolio's performance to the different portfolio management decisions made during the investment process. The following decisions can be used to explain a portfolio's total return or its excess return to its benchmark
- Positioning: Did your active positioning decisions contribute to or detract from total or excess return?
- Purchasing: Did you have an information advantage when you decided to purchase new securities?
- Selling: Did you hold your investments for the right amount of time?
- In order to calculate the impact of these decisions, Portfolio Analysis creates two synthetic portfolios to isolate positioning and purchasing decisions: a Passive Weighted Portfolio and a Passive Purchase Portfolio
- Then, we can use these two portfolios to calculate the Positioning Decision, Purchasing Decision, and Selling Decision based on Excess Return-Based Decision Analysis or Total Return-Based Decision Analysis to explain how each decision contributes to a portfolio's return

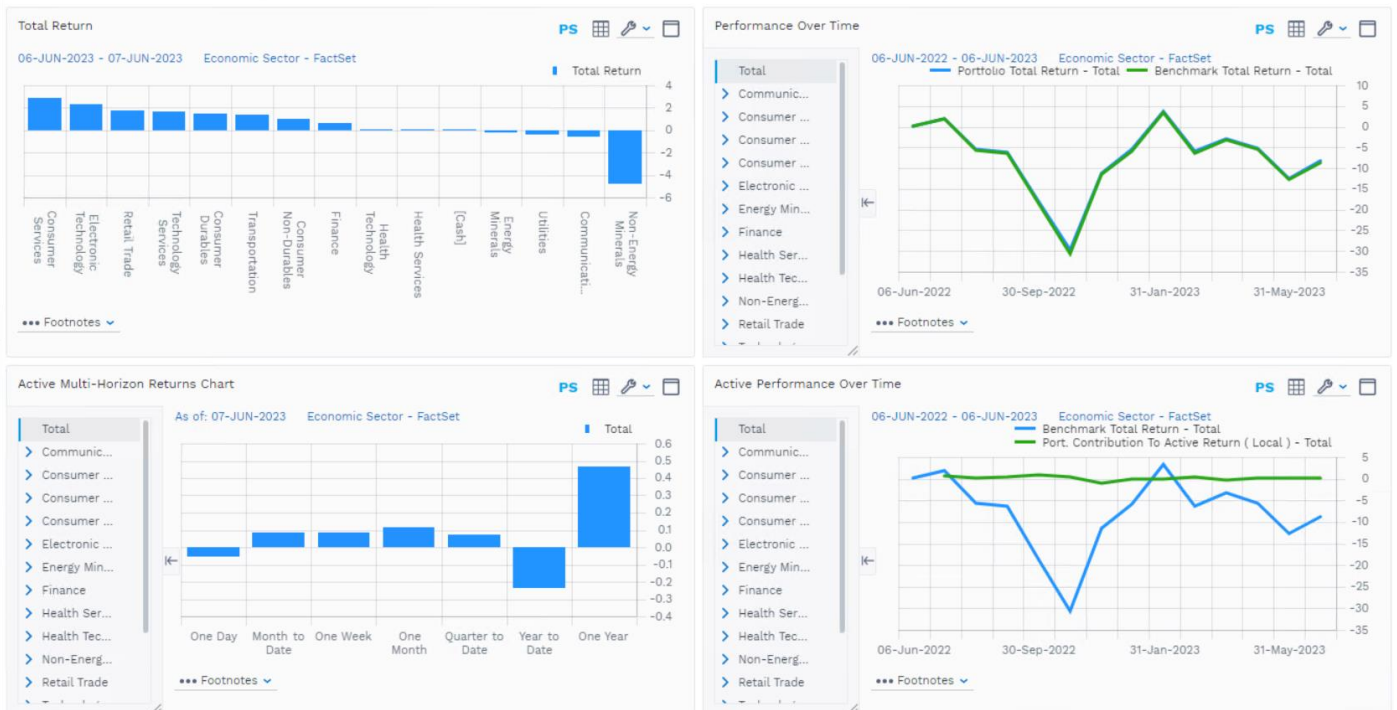
Tracker Fund of Hong Kong vs Hong Kong: Hang Seng Index



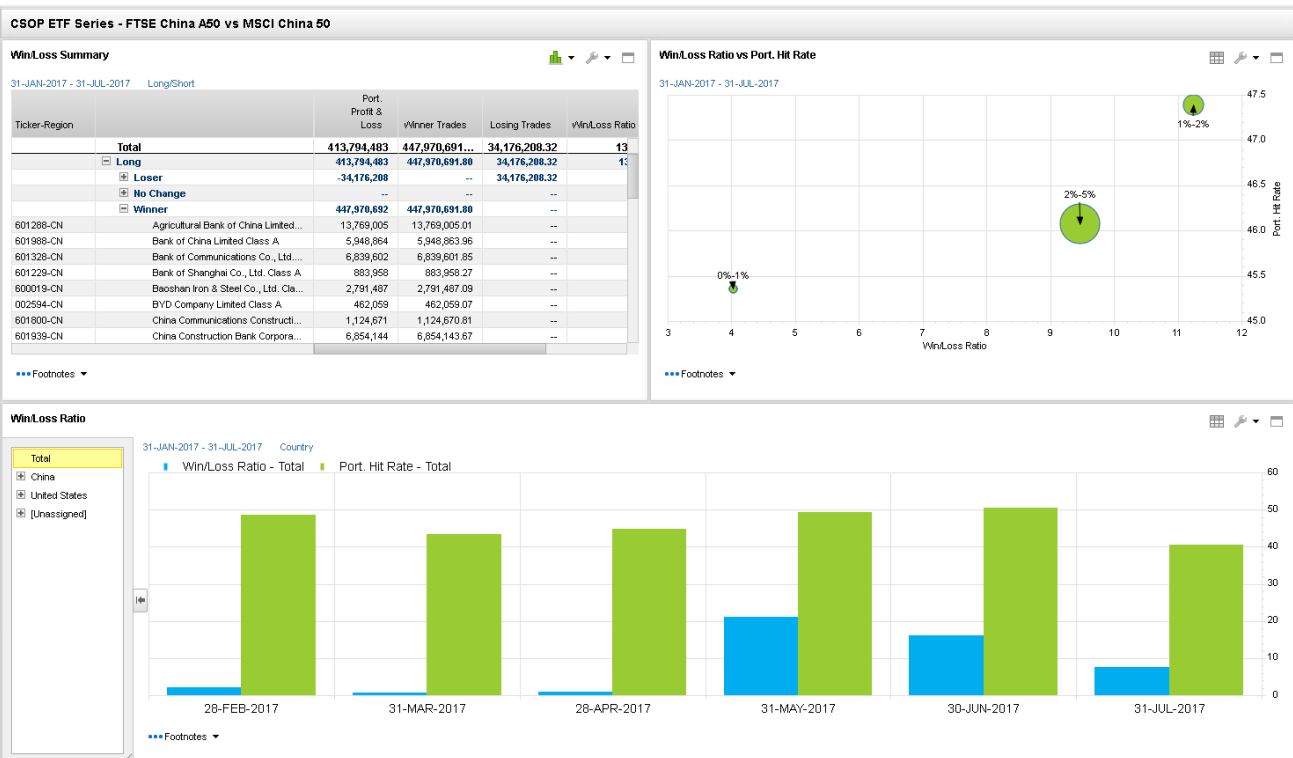
3.7 Performance Report - @PA3

- With customized columns, groupings and charts, we can create various types of performance chart

Tracker Fund of Hong Kong vs Hong Kong: Hang Seng Index



- Win/Loss ratio is the total positive trade amount divided by the total negative trade amount. It's a quite new concept in performance evaluation. As it's looking at absolute return, the Win/Loss Summary can provide an overview for the portfolio's absolute return by grouping with Long/Short and Gain/Loss. By comparing with Hit Rate or Weight, it can provide more insights to fund manager as well



FACTSET > SEE THE ADVANTAGE

- The Top/Button Contributors to Return and Sectors' Contribution to return vs Active weight are examples of contribution report

Tracker Fund of Hong Kong

Top/Bottom 10 Contributors to Return

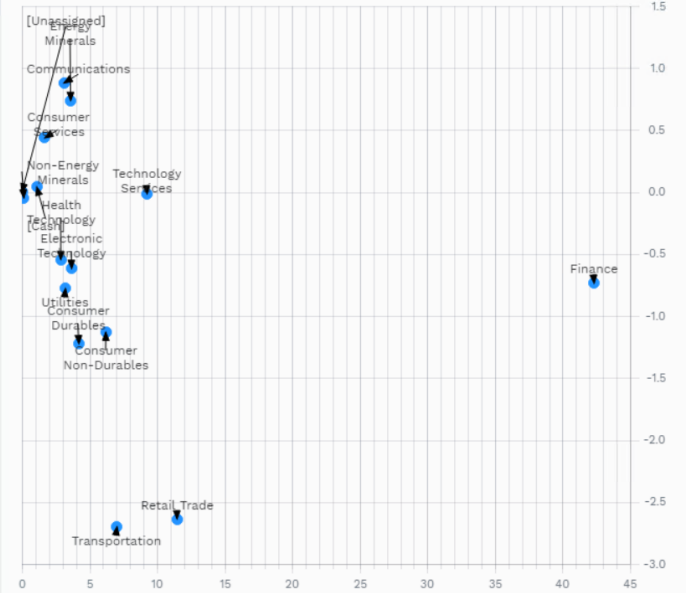
06-JUN-2022 - 06-JUN-2023 High/Low

Ticker		Average Weight	Beginning Price	Ending Price
Total		100.00		
10 Highest		28.10		
054052	HSBC Holdings Plc	8.15	6.70	7.58
607355	China Mobile Limited	2.87	6.44	8.38
85823W	Sands China Ltd.	0.53	1.99	3.38
629181	China Petroleum & Chemical Corporatio...	0.85	0.48	0.65
801FLR	Ping An Insurance (Group) Company of ...	2.63	6.20	6.66
622657	PetroChina Company Limited Class H	0.71	0.53	0.70
800GOS	CNOOC Limited	1.59	1.56	1.56
84TX8S	AIA Group Limited	7.95	10.50	10.14
815456	Bank of China Limited Class H	1.94	0.40	0.40
646587	Galaxy Entertainment Group Limited	0.89	5.40	6.35
10 Lowest		29.30		
8GJW37	Meituan Class B	6.26	25.25	15.53
8K6Y2P	Alibaba Group Holding Limited	7.51	12.36	10.50
8KPQ2T	JD.com, Inc. Class A	2.67	29.55	18.03
8L689P	Wuxi Biologics (Cayman) Inc.	1.74	8.02	5.53
653665	BYD Company Limited Class H	1.80	38.32	32.13
80LMTQ	China Construction Bank Corporation C...	4.53	0.74	0.65
801JCK	Li Ning Company Limited	1.25	8.07	5.90
80PB4M	Link Real Estate Investment Trust	1.05	8.92	6.08
80190C	Techtronic Industries Co., Ltd.	1.16	12.96	8.98
81DYPZ	China Merchants Bank Co., Ltd. Class H	1.35	6.25	4.72

*** Footnotes

Active Weight vs. Contribution to Return

06-JUN-2022 - 06-JUN-2023 Economic Sector - FactSet



*** Footnotes

- You can also use Bubble Chart and Heat Map to track the sector exposure of Contribution to Return

Tracker Fund of Hong Kong

Contribution to Return

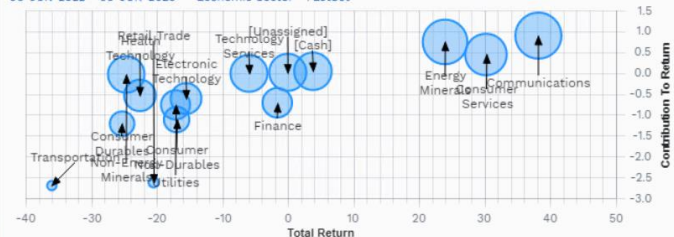
06-JUN-2022 - 06-JUN-2023 Economic Sector - FactSet

Ticker		Average Weight	Port. Beginning ...	Port. Ending Ma...	Beginning Price	Ending Price	Price Change (%)	Total Return	Contribu... To Return
Total		100.00	15,328,520,817	16,193,280,988			-11.07	-8.34	-8.34
☒ Communications		3.11	425,737,438	616,136,084			32.05	38.18	0.88
☒ Consumer Durables		4.22	698,448,295	737,756,747			-26.34	-25.26	-1.22
☒ Consumer Non-Durables		6.21	958,301,071	930,736,195			-18.30	-16.86	-1.13
☒ Consumer Services		1.69	202,884,132	303,981,562			30.32	30.32	0.44
☒ Electronic Technology		3.68	569,346,665	594,103,551			-16.31	-15.46	-0.62
☒ Energy Minerals		3.61	509,049,580	732,446,204			15.59	23.98	0.74
☒ Finance		42.34	6,951,453,254	7,016,601,775			-6.17	-1.54	-0.74
☒ Health Technology		2.88	437,100,840	384,995,642			-23.28	-22.53	-0.54

*** Footnotes

Contribution Bubble

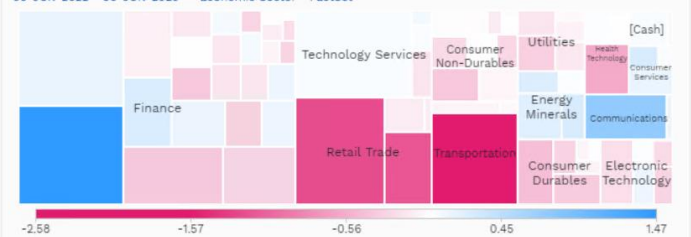
06-JUN-2022 - 06-JUN-2023 Economic Sector - FactSet



*** Footnotes

Contribution to Return Heat Map

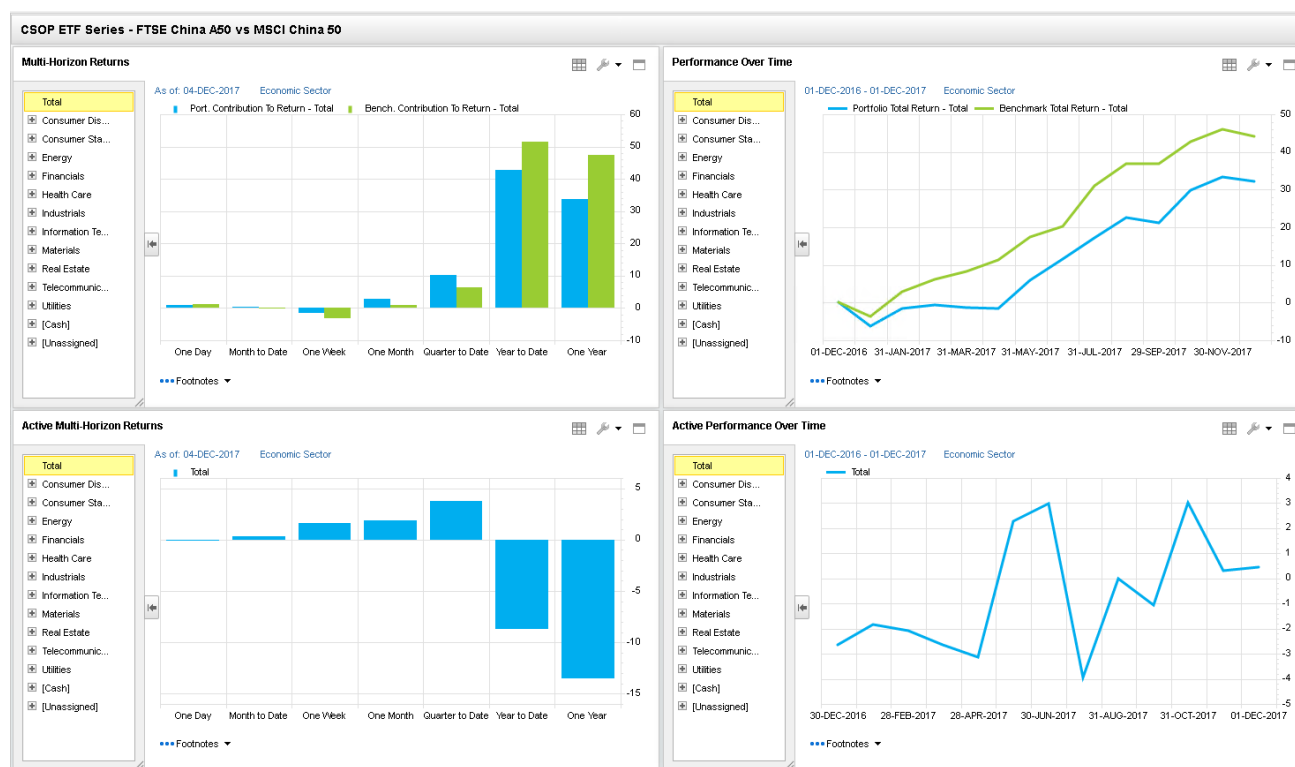
06-JUN-2022 - 06-JUN-2023 Economic Sector - FactSet



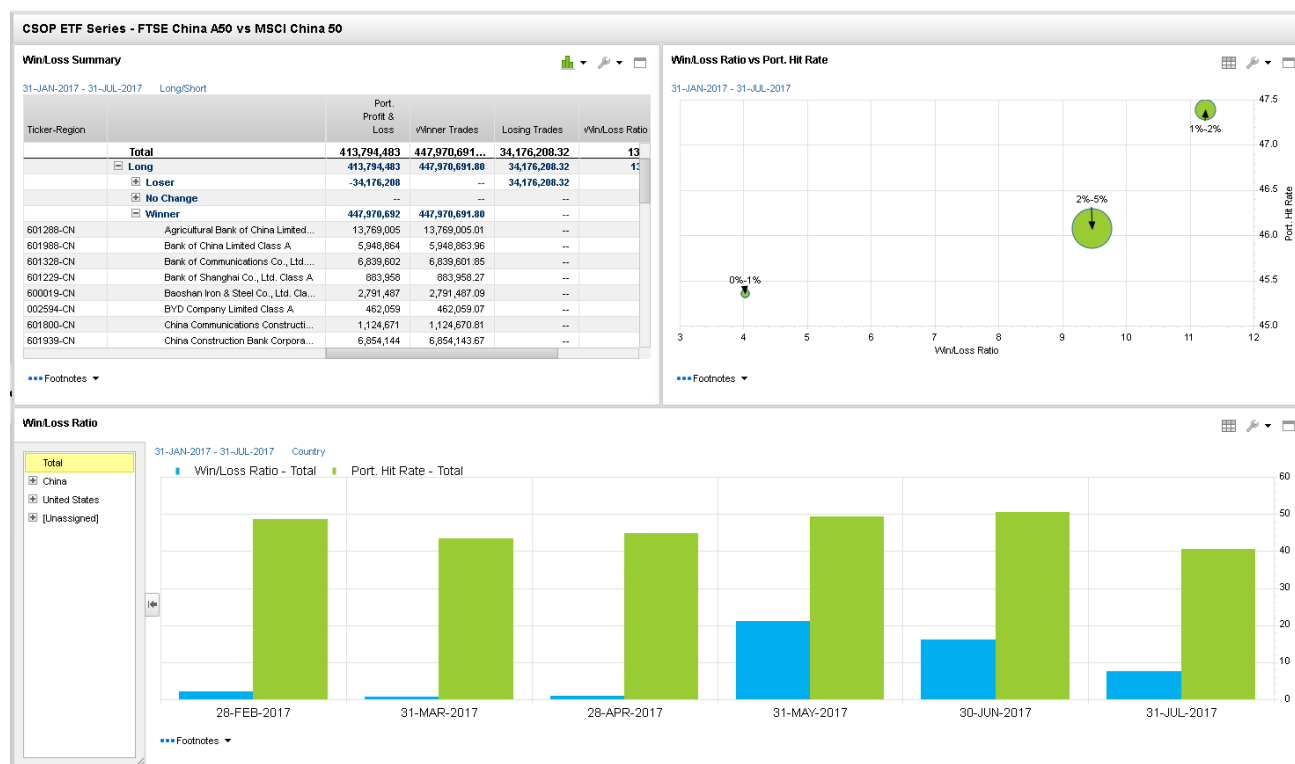
*** Footnotes

3.8 Performance Report - @PA3

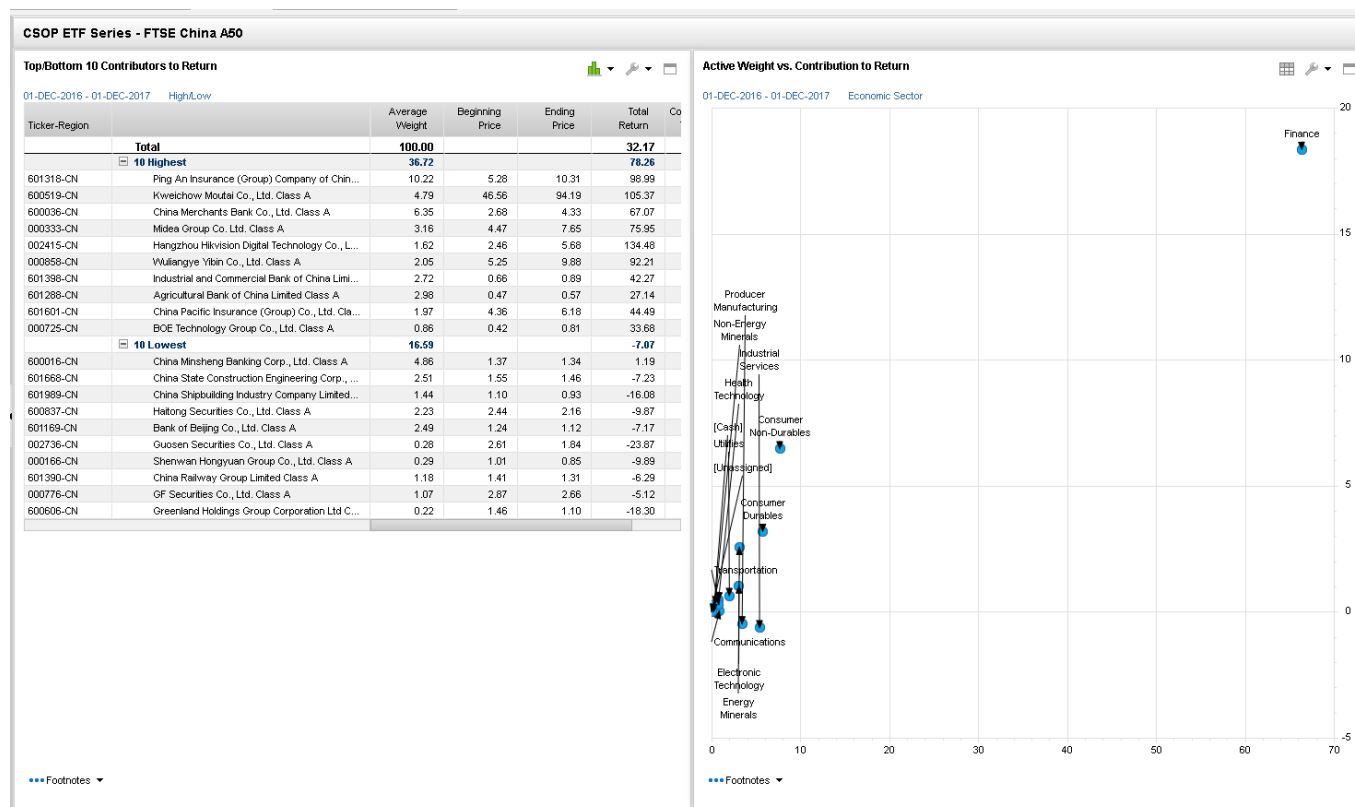
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- The Top/Bottom Contributors to Return and Sectors' Contribution to return vs Active weight are examples of contribution report



- You can also use Bubble Chart and Heat Map to track the sector exposure of Contribution to Return

CSOP ETF Series - FTSE China A50

Contribution to Return

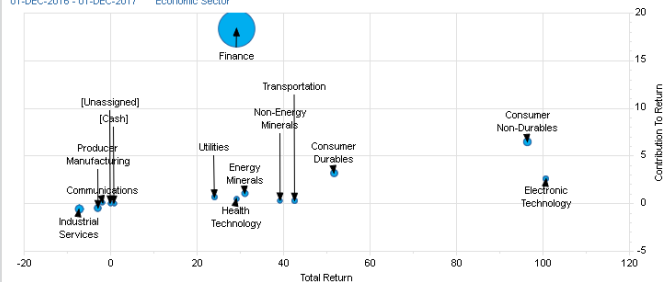
01-DEC-2016 - 01-DEC-2017 Economic Sector

Ticker	Average Weight	Port. Beginning M...	Port. Ending Mark...	Beginning Price	Ending Price	Price Change (%)	Total Return	Contribution To Return
Total	100.00	2,744,737,253	3,400,322,483			28.88	32.17	32.17
⊕ Communications	0.90	--	36,282,851			-1.70	-1.70	0.03
⊕ Consumer Durables	5.76	132,713,384	201,722,846			46.73	51.76	3.18
⊕ Consumer Non-Durables	7.68	173,296,665	292,544,421			93.21	96.49	6.46
⊕ Electronic Technology	3.13	36,698,781	145,472,392			97.10	100.82	2.56
⊕ Energy Minerals	3.09	85,682,484	91,886,796			28.06	31.14	1.03
⊕ Finance	66.40	1,921,906,123	2,218,085,352			25.62	29.23	18.34
⊕ Health Technology	0.79	12,561,396	53,669,775			29.19	29.19	0.47
⊕ Industrial Services	5.40	188,318,975	151,661,122			-8.67	-7.21	-0.64
⊕ Non-Energy Minerals	0.37	--	32,104,101			39.30	39.30	0.31
⊕ Producer Manufacturing	3.44	116,752,551	94,650,984			-4.06	-2.81	-0.49
⊕ Transportation	0.82	40,793,736	15,194,660			39.35	42.65	0.29
⊕ Utilities	2.00	31,872,223	63,441,524			19.68	24.41	0.64
⊕ [Cash]	0.24	4,146,934	2,005,659			0.87	0.87	0.00

***Footnotes ▼

Contribution Bubble

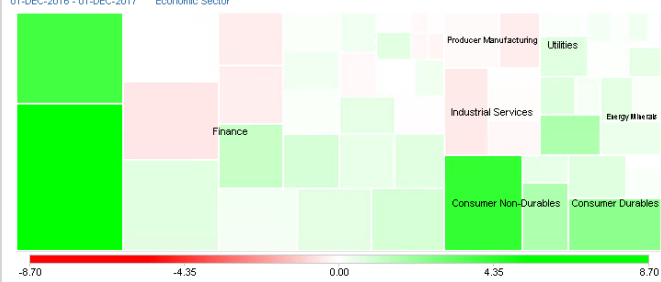
01-DEC-2016 - 01-DEC-2017 Economic Sector



***Footnotes ▼

Contribution to Return Heat Map

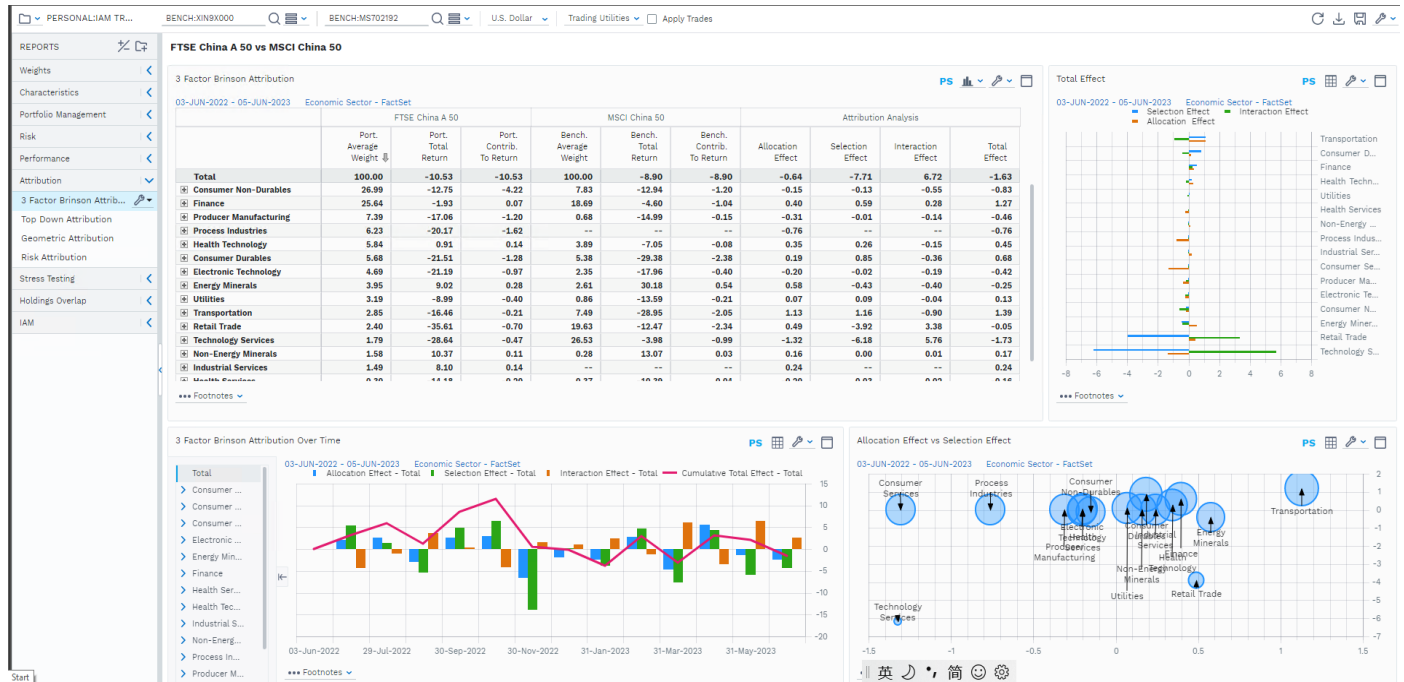
01-DEC-2016 - 01-DEC-2017 Economic Sector



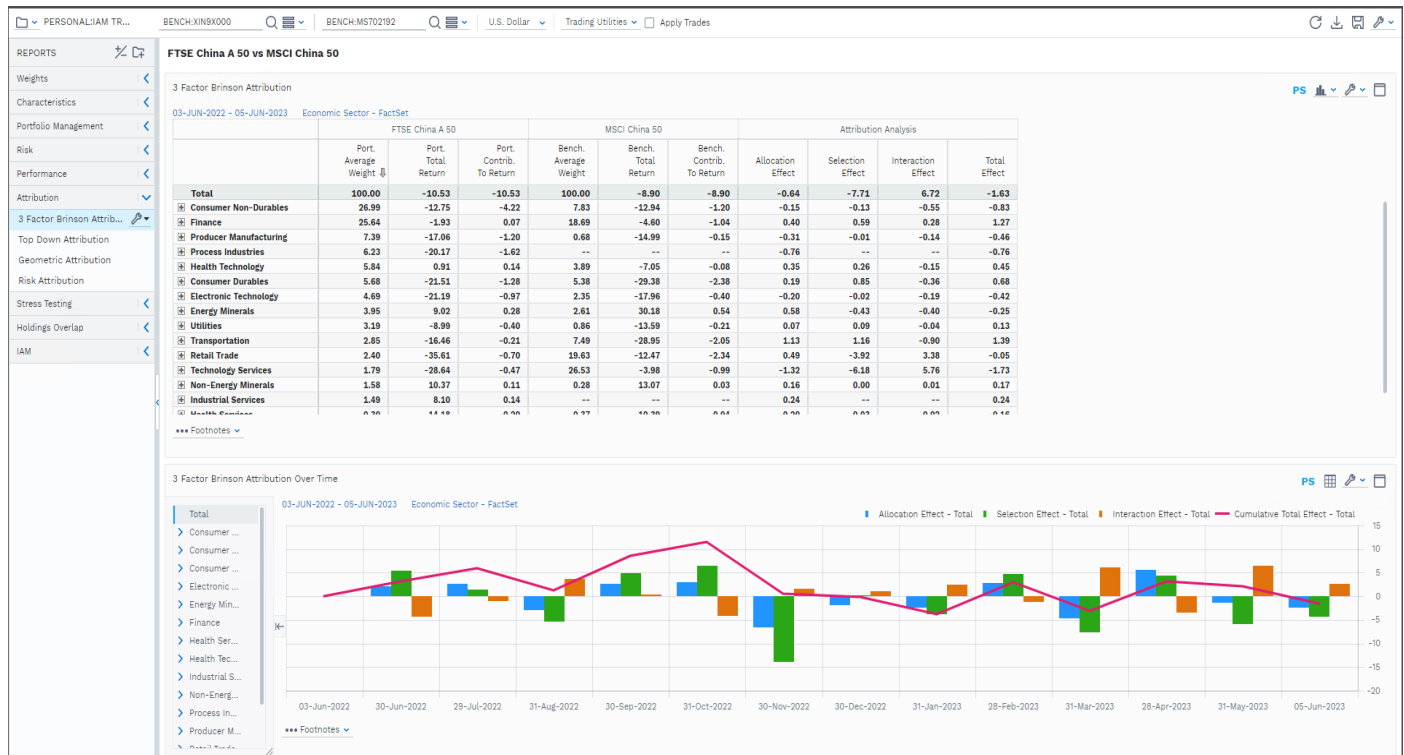
***Footnotes ▼

3.9 Attribution Report - @PA3

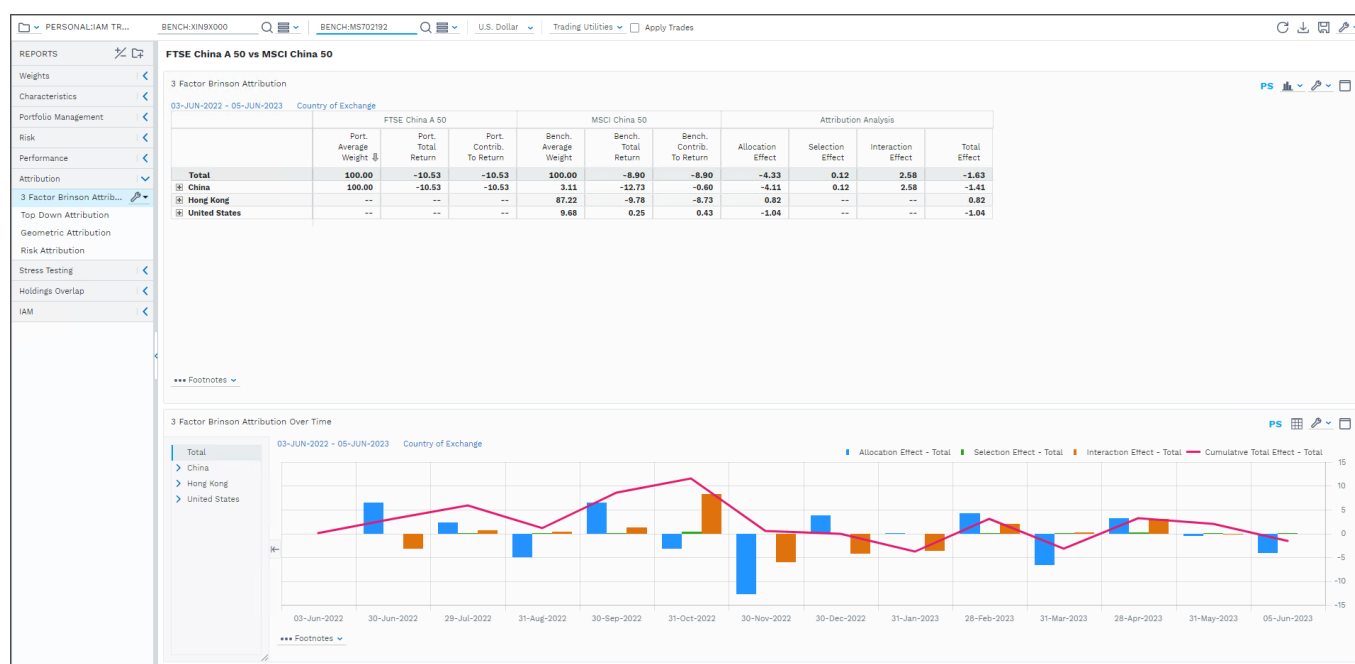
Attribution report provides an in-depth analysis of portfolio return relative to a benchmark. With this report, you can quickly see whether or not your portfolio outperformed the benchmark, and how each group contributed to performance. This section lets you analyze the effect of several portfolio management decisions, including allocation, security selection, and interaction. All attribution effects are computed daily and are linked through time.



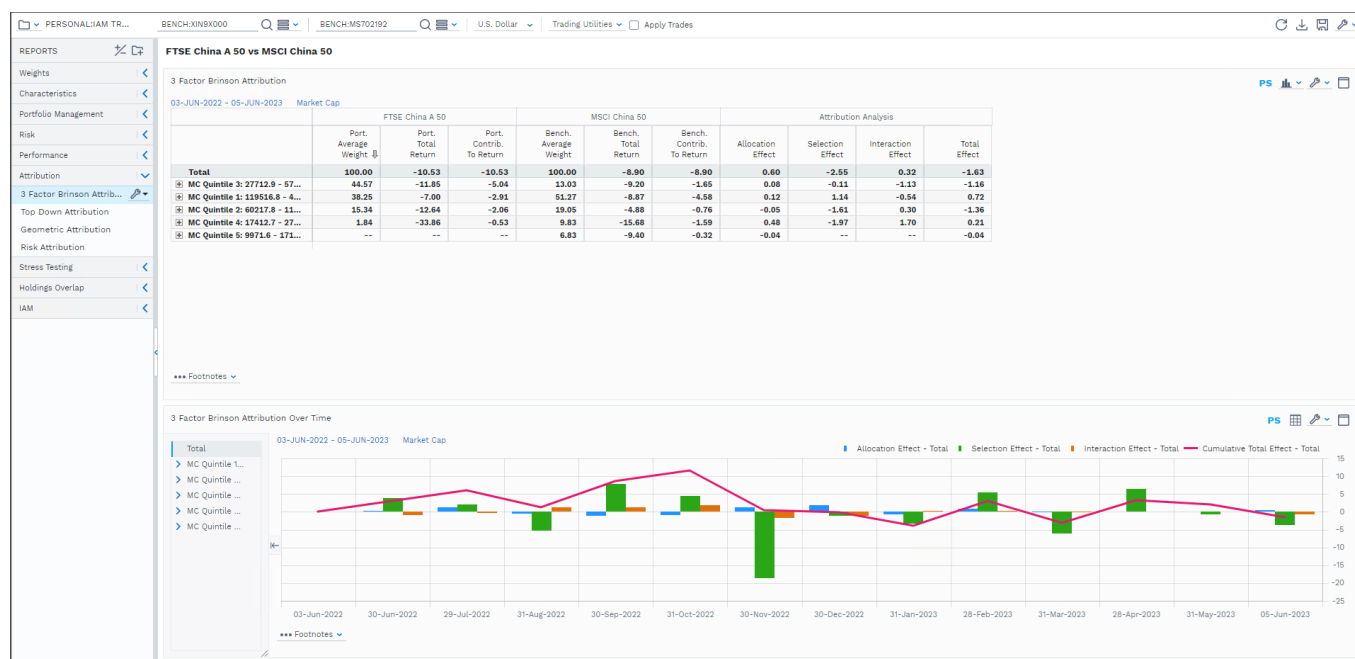
Below is an example for Sector Attribution:



Below is an example for Country Attribution:



Similar to other reports, with customized grouping feature, attribution report can also be grouped by various fundamental data. You can refer to the Market Cap Quintile example below.



Apart from Single Portfolio vs Benchmark Report, Multiple Portfolios and Benchmarks Report is also available in Portfolio Analysis 3.0. Fund Manager can monitor multiple funds in the same report

3.11 Portfolio Dashboard - @PD2

Use Portfolio Dashboard to monitor many portfolios at once in a single report. You can view bottom-up performance and predictive, factor-based risk along with top-down, returns-based performance. To perform deeper analysis on a specific portfolio, you can easily jump to Portfolio Analysis or SPAR (Style, Performance, and Risk)

Different with Multiple Portfolio Report. It's showing Top-level or Group-level data here. However, the data items can be linked to multiple PA documents and you can easily jump to that document by clicking the data hyperlink

The screenshot displays the Portfolio Dashboard interface. At the top, a header bar shows 'PDASH_DOCUMENTS: BLANK DOCUMENT' and a link icon. Below this, the 'Portfolio Dashboard' section is titled, with a subtitle 'Last Run Time: 05-JUN-2023 8:02:18 PM'. A table lists two portfolios with columns for Price Change (%), Total Return, Contrib... To Return, Allocation Effect, Selection Effect, and Total Effect. A blue arrow points from the 'Contrib... To Return' value of 8.69 for 'abrdn U.S. Small Cap Equity Fund' to a detailed view of this fund.

The detailed view for 'abrdn U.S. Small Cap Equity Fund' shows a 'Contribution to Return' table for the period '30-SEP-2021 - 31-DEC-2021'. The table includes columns for Ticker, Average Weight, Port. Beginning ..., Port. Ending Ma..., Price Change (%), Total Return, and Contribu... To Return. A blue arrow points from the 'Contribu... To Return' column header to the '8.69' value in the 'Total' row.

Portfolios	Price Change (%)	Total Return	Contrib... To Return	Allocation Effect	Selection Effect	Total Effect
abrdn U.S. Small Cap Equity Fund	8.44	8.69	8.69	-0.28	-1.94	-2.22
abrdn US Sustainable Leaders Smaller Companies Fund	9.35	9.64	9.64	9.64	--	9.64

Ticker	Average Weight	Port. Beginning ...	Port. Ending Ma...	Price Change (%)	Total Return	Contribu... To Return
Total	100.00	1,126,499,329	1,209,405,391	8.44	8.69	8.69
30+	30.89	367,707,111	361,540,502	5.58	5.68	2.20
20-30	16.66	199,565,507	178,203,136	13.93	14.08	2.38
10-20	41.66	448,829,737	533,475,599	12.72	13.19	5.09
0-10	3.85	40,648,292	49,557,432	5.45	5.86	0.21
[Cash]	3.54	30,364,521	45,521,841	0.01	0.01	0.00
[N/A]	3.40	39,384,159	41,106,880	-28.99	-28.99	-1.18

3.12 Useful Features in Portfolio Analysis - @PA3

Easy to Audit

Use the Portfolio Analysis Auditor to view the values behind a security- or group-level calculation. Portfolio Analysis Auditor allows you to see the daily values used to calculate a time-series result, the security-level values used to calculate a group-level value, and the group-level values used to calculate a portfolio-level value

Audit			
Weights			
02-JUN-2023 Economic Sector - FactSet			
	Port. Weight	Bench. Weight	Difference
Total	100.00	100.00	--
Commercial Services	6.24	3.98	2.26
Communications	1.00	0.80	0.19
Consumer Durables	3.33	3.05	0.28
Consumer Non-Durables	6.91	3.79	3.12
Consumer Services	2.42	3.90	-1.48
Distribution Services	--	1.61	-1.61
Electronic Technology	7.09	7.20	-0.11
Energy Minerals	--	3.43	-3.43
Finance	12.88	22.12	-9.24
Health Services	--	1.49	-1.49
Health Technology	10.08	14.07	-3.99
Industrial Services	3.73	3.91	-0.18
Miscellaneous	--	0.05	-0.05
Non-Energy Minerals	--	1.85	-1.85
Process Industries	5.61	3.30	2.31
Producer Manufacturing	15.68	7.61	8.06
Retail Trade	4.57	2.95	1.62
Technology Services	10.75	8.95	1.80
Transportation	5.36	2.62	2.74
Utilities	1.48	3.33	-1.85
[Cash]	-0.10	--	-0.10
[Unassigned]	2.99	--	2.99

Bench. Weight		
Commercial Services		
02-JUN-2023		
	Bench. Weight	Bench. Ending Market Value
Total	100.0000	2,312,864,105....
Commercial Services	3.9784	92,013,964.8835
Advertising/Marketing S...	0.1210	2,799,341.4300
Advantage Solutions ...	0.0070	162,047.1600
Boston Omaha Corp....	0.0187	433,351.5600
Clear Channel Outdo...	0.0215	497,475.7600
Focus Universal Inc	0.0018	41,607.7200
IBEX Ltd	0.0083	191,524.8900
QuinStreet, Inc.	0.0212	491,264.9100
Quotient Technology ...	0.0115	265,985.6000
Thryv Holdings, Inc.	0.0265	614,018.1600
Veritone, Inc.	0.0044	102,065.6700
Commercial Printing/Fo...	0.0995	2,301,802.0200

Bench. Ending Weight

$W_t = MV_t / \sum MV_{t,i}$

- W_t := benchmark ending weight
- MV_t := benchmark ending market value
- $\sum MV_{t,i}$:= ending market value of the overall benchmark

The benchmark ending weight of a position reflects the value of the position relative to all of the securities in the benchmark as of the end of a report period. It is calculated as the ending market value of a security divided by the total market value of the portfolio.

Standard benchmark- and group-level weights are the sums of security-level weights.

Smart Caching

The Report Caching utility allows you to schedule a nightly job to cache data for your most frequently used reports. Being more efficient in refreshing analytic reports.

Report Caching

SCHEDULING

Start:

At a Scheduled Time

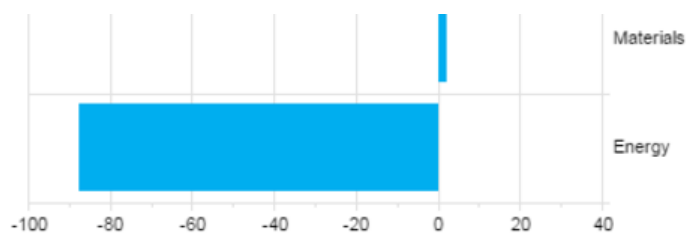
12 : 00 AM ET

Calendar:

Five Day

Save

Cancel



*** Footnotes

Cached data from 25-Jul-2016 at 9:31:41 am

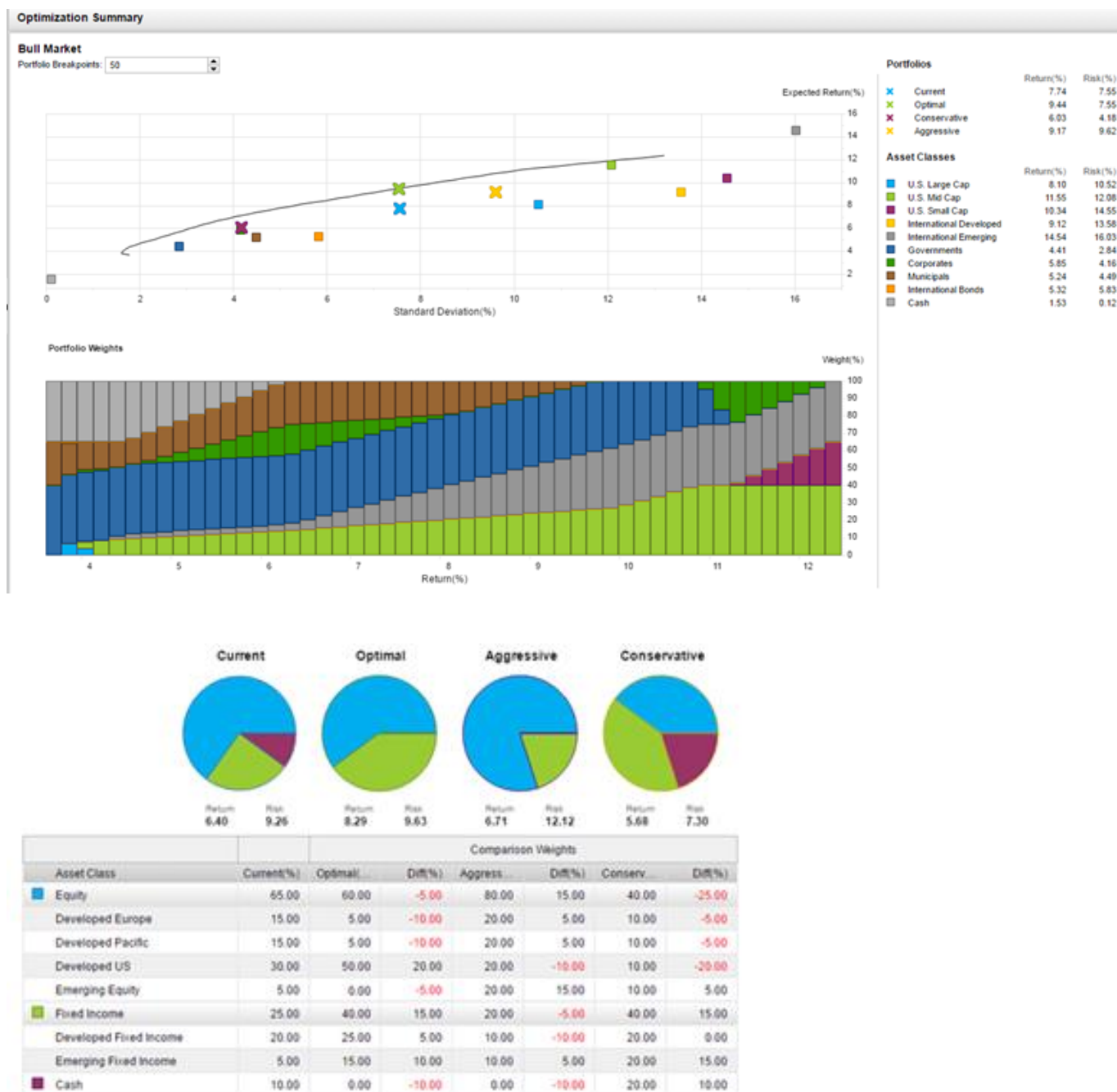
3.13 Asset Allocation - @AA

Run advanced optimization and forecasting models

FactSet Asset Allocation is the process of balancing risk and reward in establishing portfolio asset class weights. The application allows users to determine how much to invest in each asset class for a particular portfolio while minimizing risk

See the best allocation mix across asset classes

Asset Allocation allows users to optimize portfolios to a target return or target risk; forecast portfolio returns and market values to simulate various asset allocation strategies using FactSet's Monte Carlo model; create and incorporate capital market assumptions leveraging historical returns data or the Black-Litterman method; and display results in presentation-ready documents that export directly to Powerpoint or PDF



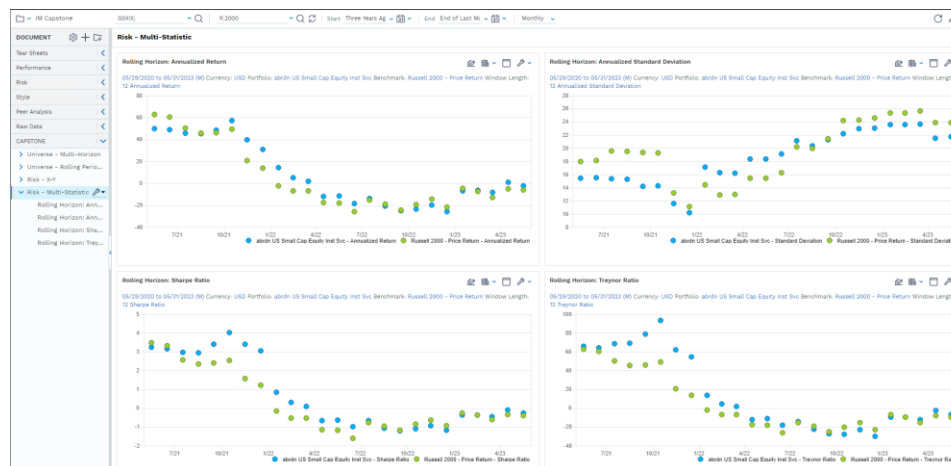
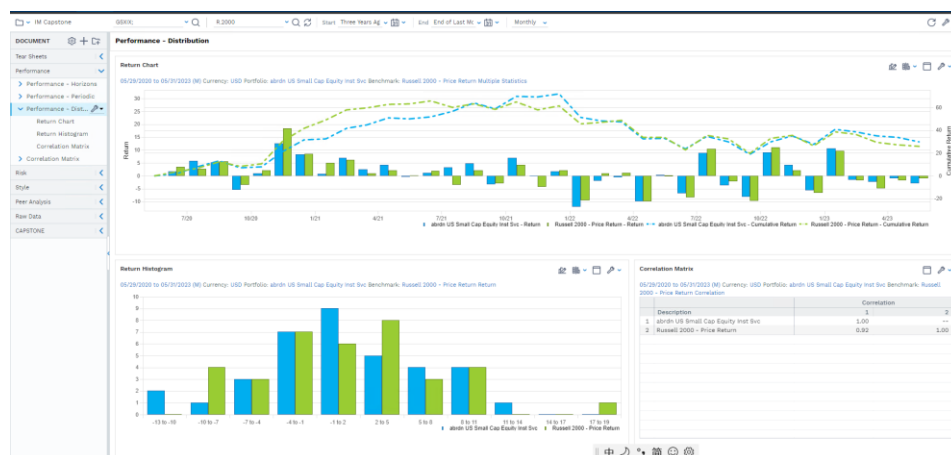
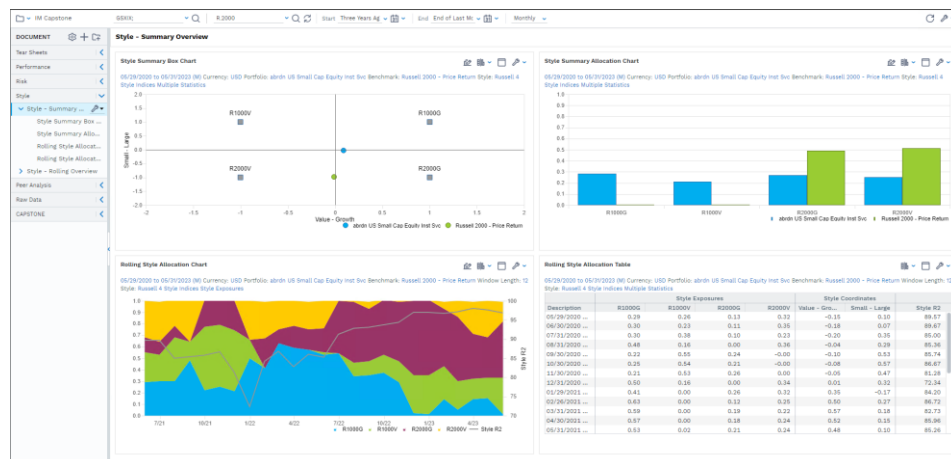
3.14 SPAR (Style, Performance, and Risk) - @SP3

Look into style, performance and risk

FactSet's SPAR application provides returns-based analysis of selected portfolios, benchmarks and competitor funds, letting you dynamically create a presentation of portfolios' style, risk and peer group, which can be downloaded easily into PowerPoint or Excel file.

Highlighted features

SPAR allows you to analyze your portfolio's returns against 20,000 equity and fixed income benchmarks, as well as over 70 Modern Portfolio Theory risk statistics such as beta, standard deviation, r-squared, alpha, and tracking error. Peer rankings of our portfolio and the benchmark against various peer universes. SPAR 3.0 also provides better user experience with noticeable speed, presentation ready output and great customizations on settings and horizons.



4 Quantitative Analysis (Quant Analytics)

4.1 Alpha Testing - @AT4

Back Testing

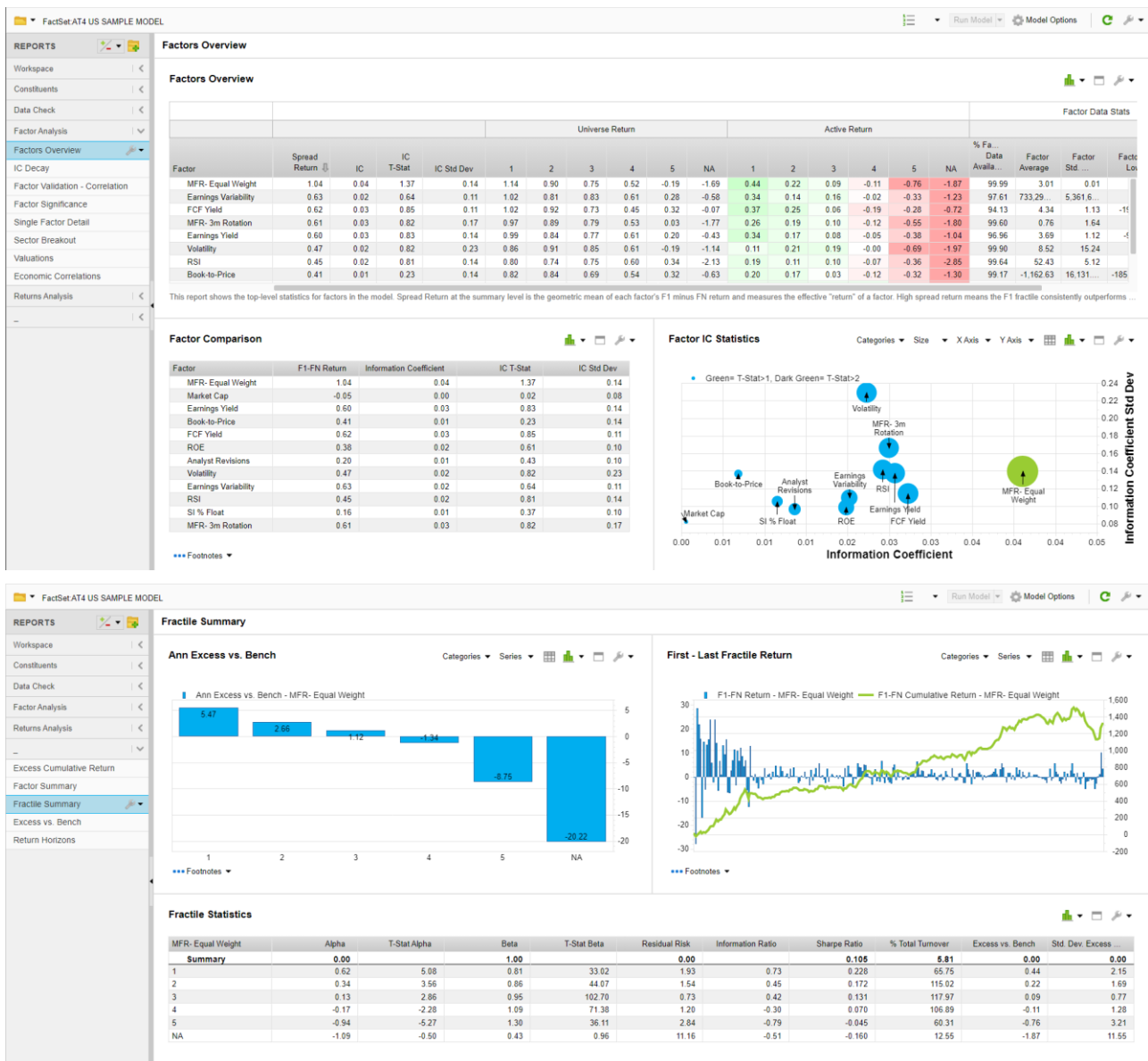
Test your ideas about which quantitative and qualitative factors drive returns

Fractile and Grouping

Divide companies into groups or buckets based on these factors to see if certain groups correlate with higher returns. Customized Fractile and statistic items are also available

Universe

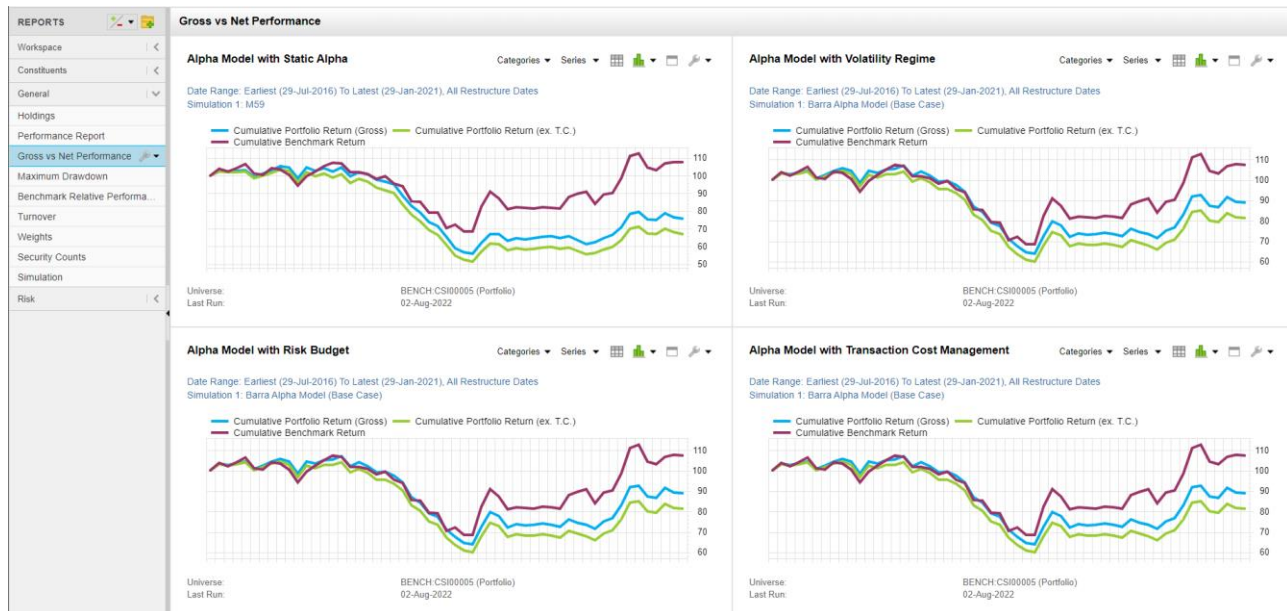
Your saved screen from Universal Screening, Portfolios, Benchmarks, or even formulas can also be the universe of Alpha Testing



4.2 Portfolio Simulation - @PS3

Create Rules-Based Simulations

After you have confirmed your trading strategy, you can use your quant model scores to define buy/sell rules to construct simulated portfolios; add sector and asset weight constraints, turnover limits, and transaction costs; test stop-loss and lock-gain rules to simulate real-world trading scenarios; perform sensitivity analysis to gauge the impact of varying constraint levels on performance; Set up any condition to trigger a rebalance, such as when market volatility rises suddenly



Trade Log

Trade Log

Date Range: Earliest (29-Jul-2016) To Latest (29-Jan-2021), All Restructure Dates

	Company Name	Trade Number	Ticker	Trade Type	Begin Wei...	End Wei...	Tra... Wei...	Trade Reason
29-Jul-2016								
640988	Harbin Pharma...	1.00	600664...	Buy	0.00	5.49	5.49	Optimization
680360	China National ...	2.00	000028...	Buy	0.00	8.00	8.00	Optimization
686134	Suzhou New Di...	3.00	600736...	Buy	0.00	0.37	0.37	Optimization
640397	Geo-Jade Petr...	4.00	600759...	Buy	0.00	1.64	1.64	Optimization
629331	Yantai Changy...	5.00	000869...	Buy	0.00	4.18	4.18	Optimization
610972	Jiangsu Hongtu...	6.00	600122...	Buy	0.00	1.37	1.37	Optimization
608805	China CYTS To...	7.00	600138...	Buy	0.00	0.50	0.50	Optimization
677045	Shanghai Shim...	8.00	600823...	Buy	0.00	1.51	1.51	Optimization
613468	Xiandai Invest...	9.00	000900...	Buy	0.00	1.43	1.43	Optimization
620337	Shandong Nan...	10.00	600219...	Buy	0.00	0.35	0.35	Optimization
622175	Guangxi Guigu...	11.00	600236...	Buy	0.00	7.85	7.85	Optimization
656491	China National ...	12.00	600511...	Buy	0.00	5.66	5.66	Optimization
659105	Zhejiang Huah...	13.00	600521...	Buy	0.00	7.75	7.75	Optimization
661022	Guangzhou Bai...	14.00	600004...	Buy	0.00	6.88	6.88	Optimization
B126XM	Western Mining...	15.00	601168...	Buy	0.00	7.63	7.63	Optimization
B39TPX	Yantai Tayho A...	16.00	002254...	Buy	0.00	2.16	2.16	Optimization
B5M7JN	Rastar Group ...	17.00	300043...	Buy	0.00	1.88	1.88	Optimization
B5VYRW	Pengdu Agricul...	18.00	002505...	Buy	0.00	2.48	2.48	Optimization
B59WFS	Hangzhou Rob...	19.00	002508...	Buy	0.00	8.00	8.00	Optimization
B5KPMY	Beijing SPC En...	20.00	002573...	Buy	0.00	8.00	8.00	Optimization
B4QYGC	Suofeiya Home...	21.00	002572...	Buy	0.00	7.77	7.77	Optimization
B4L76Q	Himile Mechani...	22.00	002595...	Buy	0.00	5.22	5.22	Optimization
B72TPR	Perfect World ...	23.00	002624...	Buy	0.00	1.46	1.46	Optimization
B1Q2HY	Chongqing Iron...	24.00	601005...	Buy	0.00	0.78	0.78	Optimization
B3ZVNX	Zhengzhou Co...	25.00	601717...	Buy	0.00	1.63	1.63	Optimization

05-Aug-2016

661022

Guangzhou Bai...

30-Aug-2016

620337

Shandong Nan...

31-Aug-2016

640988

Harbin Pharma...

1.00

600664...

Buy

5.49

5.49

Optimization

Footnotes

5 Support Desk Resources

5.1 Contacting FactSet Support

When you become a FactSet client, you will have unlimited access to a team of consultants and product specialists. You'll be able to leverage a wide range of combined industry knowledge and FactSet product experience to maximize the value of FactSet

FactSet Support is available 24 hours a day, 7 days a week for application, project, and technical support. We can be reached via the following ways:



Phone



Email



Chat

Phone

+4001008215(Mainland China)

Email

General: support@factset.com

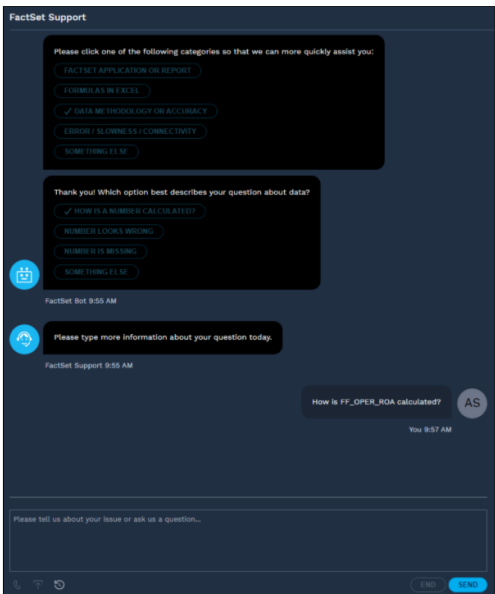
China account team: cn_support@factset.com

Chat

You can chat in the following ways:

- In FactSet workstation, click the **Contact FactSet Support** button in the toolbar or enter **@HELP** in FactSet Search.
- In FactSet web, click the ? button in the web toolbar on the left, and then select "Chat with FactSet Support."

When you are in FactSet Support, enter the appropriate categories and your question to initiate the conversation and chat with the assigned representative. Additionally, if you want to share a file with them, then you can drag and drop the file into the chat window or click the **Share File** button to browse for the file. See [Using Secure File Transfer for Support](#) for more information.



After you are done with the chat, a transcript of the conversation is emailed to you for your reference.

5.2 Who to Contact?

In order to optimize the time and outcome of your enquiry, it is best to know who to contact for specific help when experiencing difficulties with particular FactSet's applications. This will ensure that we provide you promptly with the most efficient and effective solution.

For enquiries listed below, it will be solved most efficiently by our agents at the [Factset Support desk](#):

- **Formula Lookup**
- **Data Validation**
- **Data Item Availability (e.g. Activist Campaigns, Latest 10K Filings)**
- **Troubleshooting Excel Spreadsheets**
- **Formatting Help**
- **FactSet Account Information**
- **Basic Connectivity Issue**
- **Application Errors (Crashes, Error messages, Non-responding reports, Slowness)**

For other enquiries listed below, it will be best to contact your [Primary Consultant/Specialists](#):

- **Initial Training**
- **Template Building and Conversion**
- **Report Customizations**
- **Disconnections, Firewall & Proxy Issues**