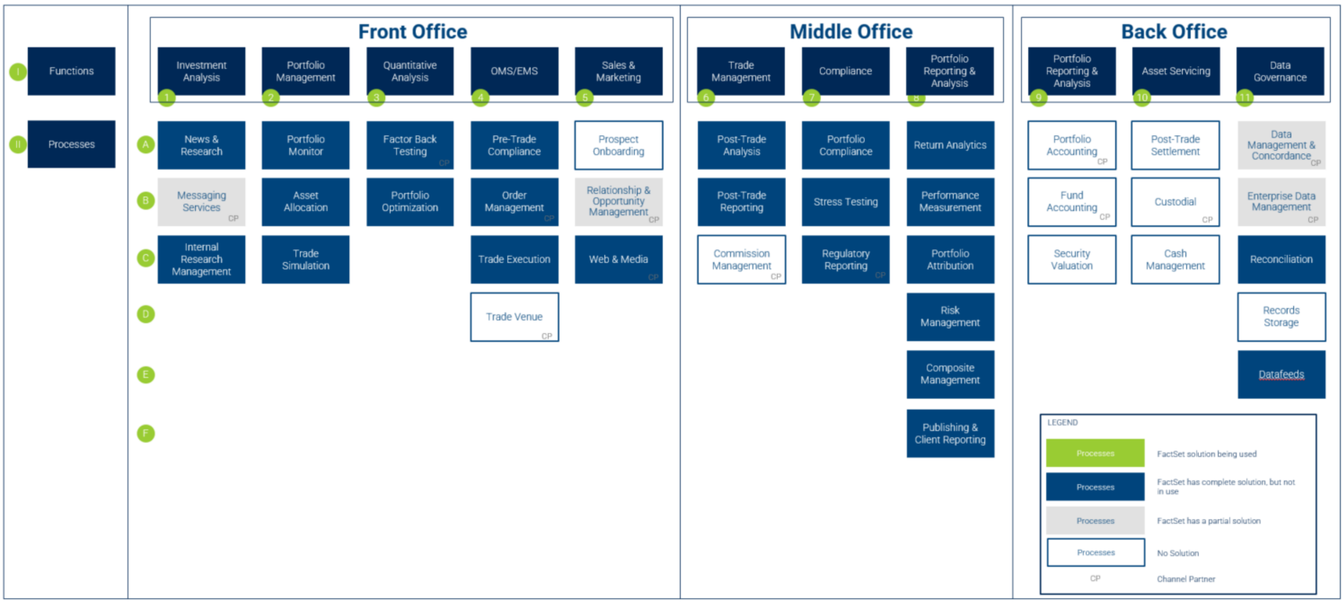
FactSet Applications for Investment Management Professionals

July 13, 2023

Operating Landscape

Operating Landscape and FactSet – Investment Management



FactSet China Limited 8/F BEA Finance Tower 66 Huayuan Shiqiao Road Central Pudong Shanghai T +400 100 8215

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Equity Workflow / Company Research
Fixed Income Workflow
Multi-Asset Class Workflow

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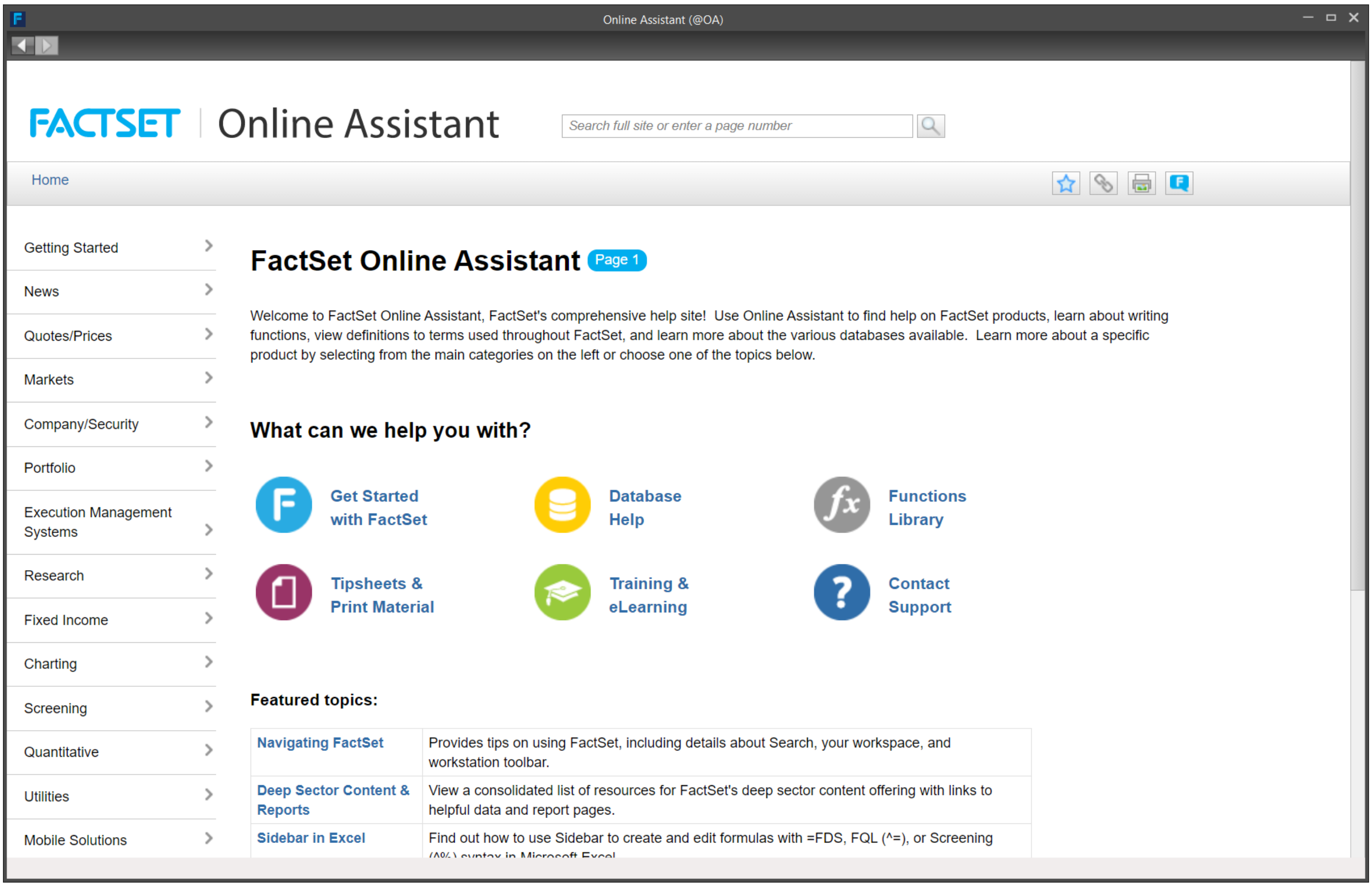
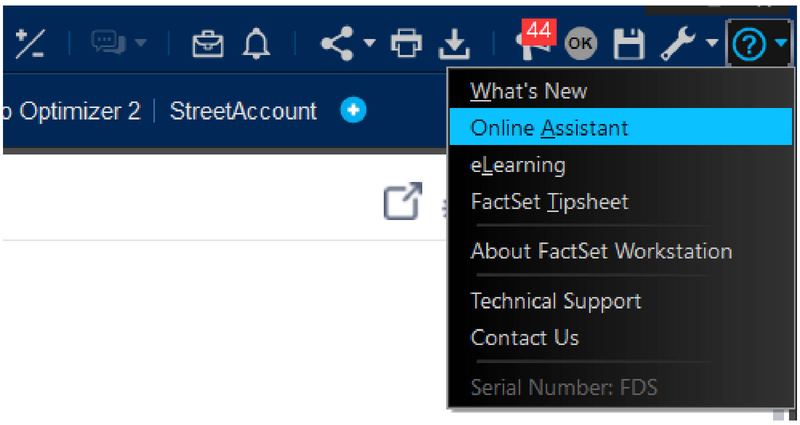
FactSet Online Assistant - @OA

- 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





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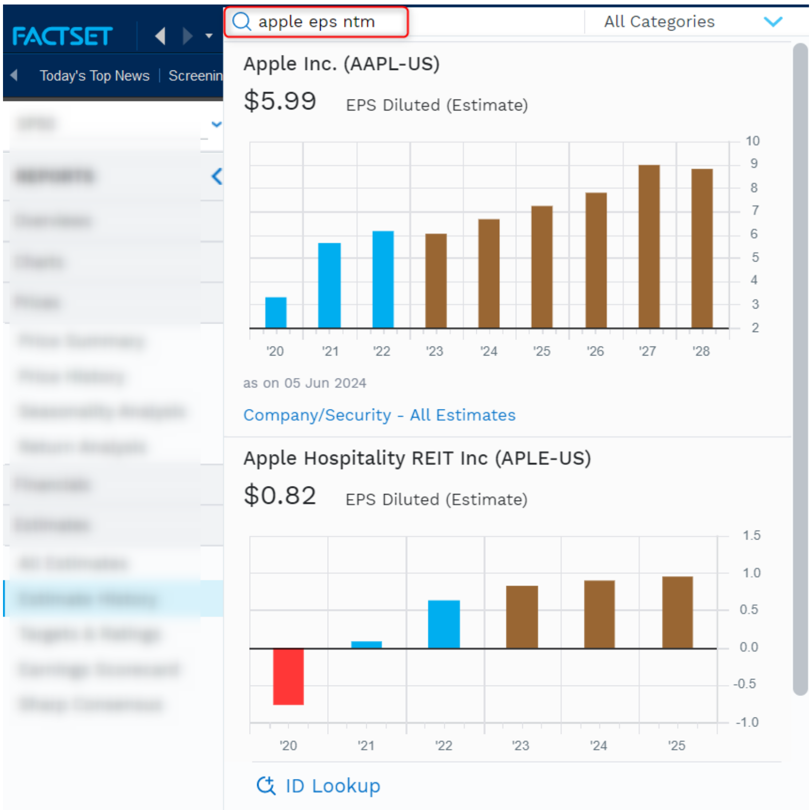
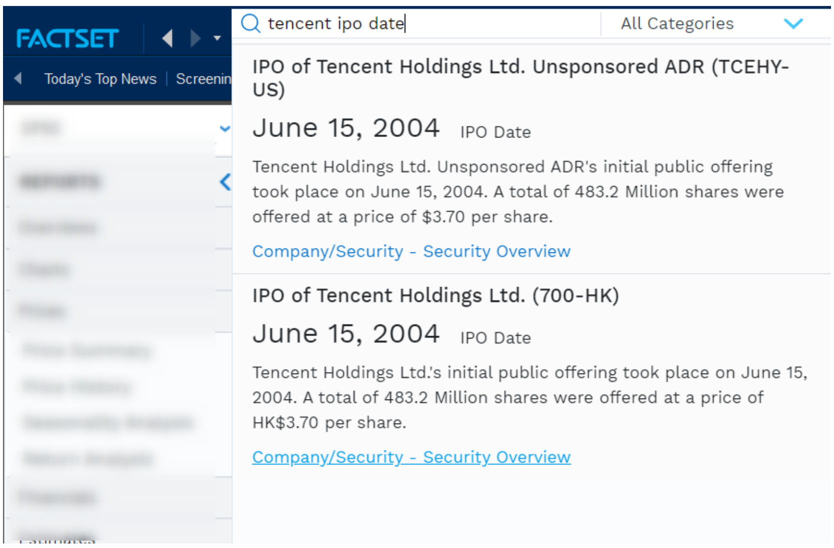
FactSet Search

- FactSet Search allows you to easily discover reports and application without any piror 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所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。



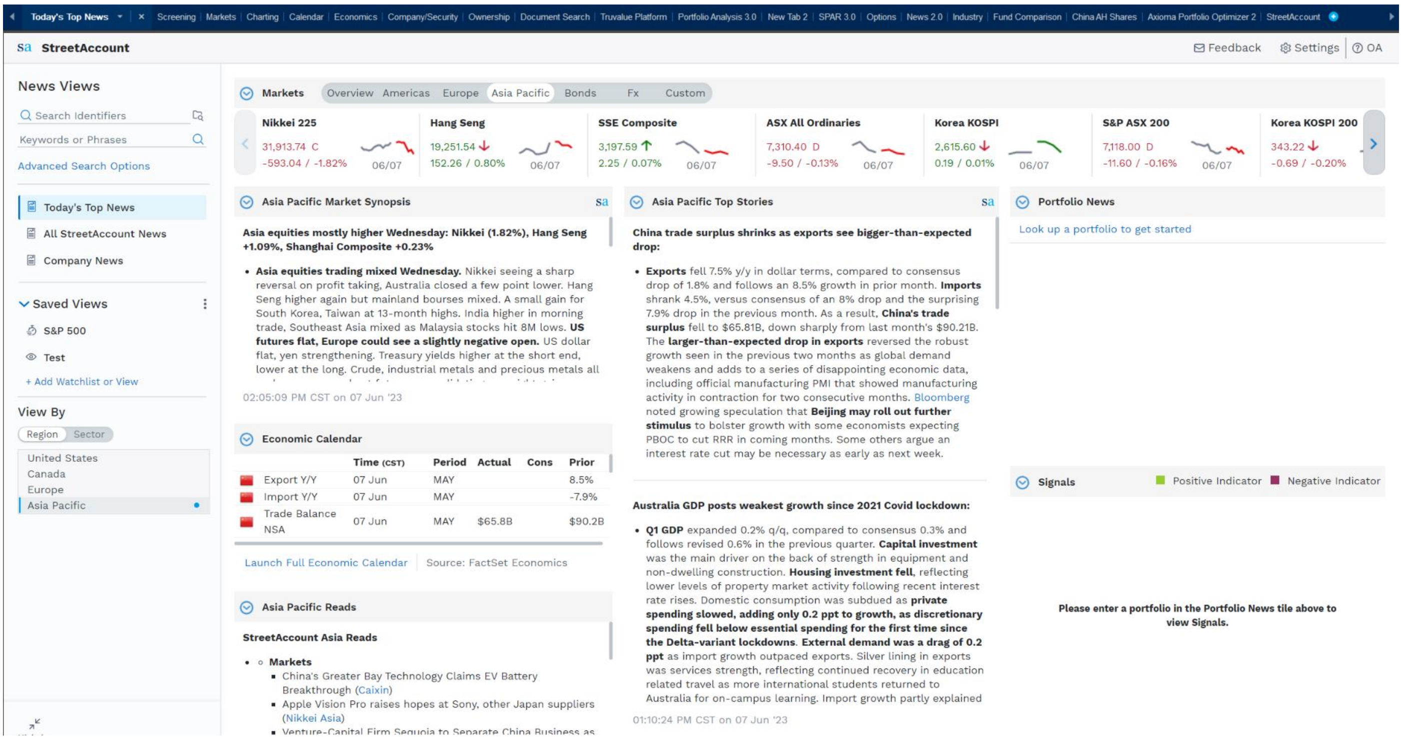
- You can find the answer to some of your common financial data questions using FactSet Search
- FactSet 搜索可以替你解答一些常见金融数据的问题。

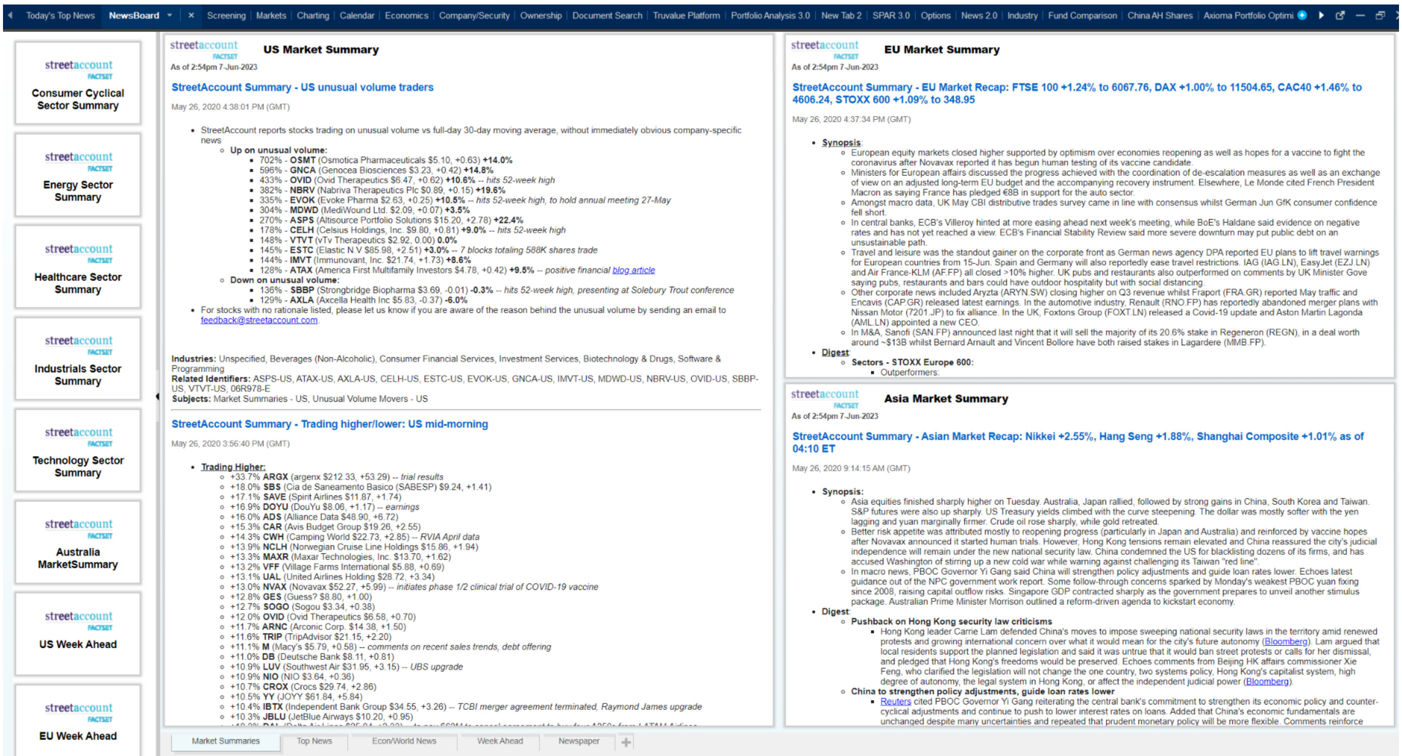


1 Investment Analysis (Generating Ideas)

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
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Charting
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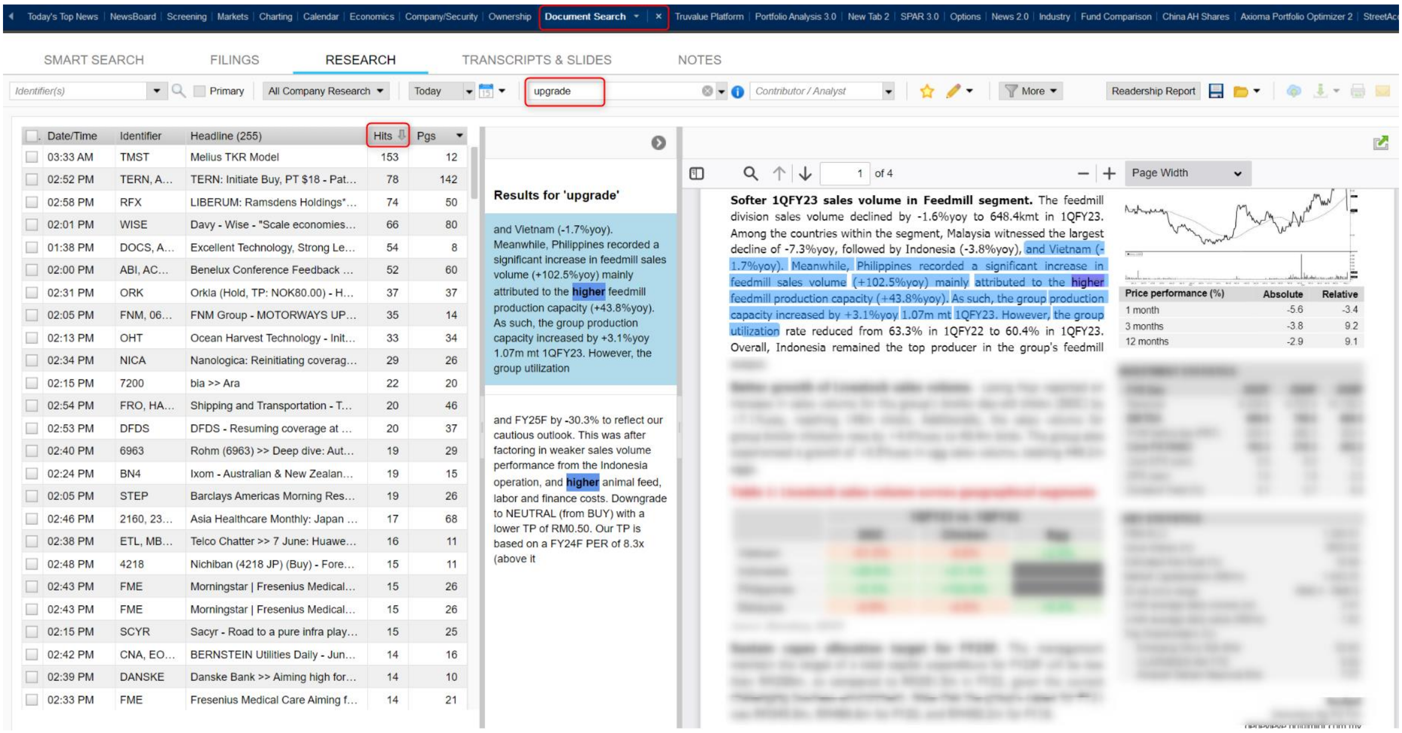
Economics
Company/Security
Ownership
Document Search
Truvalue Platform
Portfolio Analysis 3.0
New Tab 2
SPAR 3.0
Options
News 2.0
Industry
Fund Comparison
China AH Shares
Consumer Cyclical Sector Summary
Energy Sector Summary
Healthcare Sector Summary
Industrials Sector Summary
Technology Sector Summary
Australia MarketSummary
US Week Ahead
EU Week Ahead
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 Summary - Trading higher/lower: US mid-morning
May 26, 2020 3:56:40 PM (GMT)
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 +1.09% to 348.95
May 26, 2020 4:37:34 PM (GMT)
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)
Market Summaries
Top News
Econ/World News
Week Ahead
Newspaper

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。



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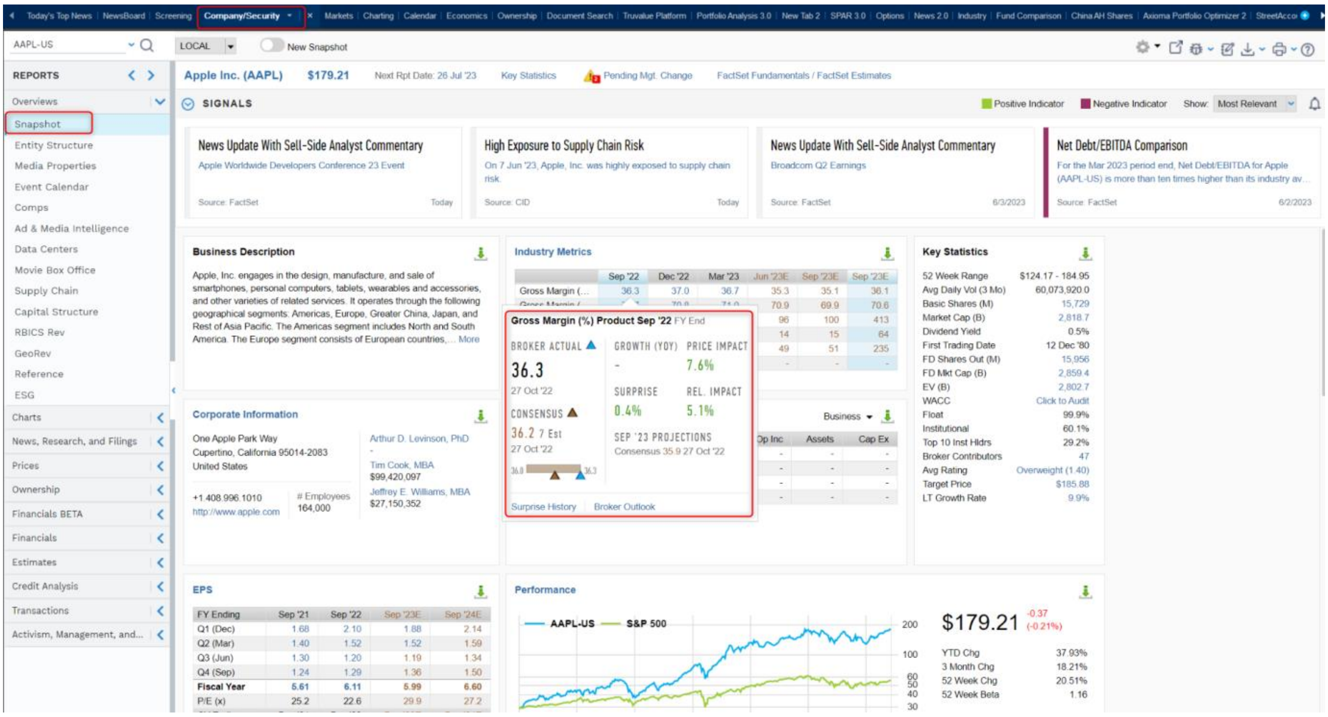
1.3 Security Analysis - Company/Security

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）。



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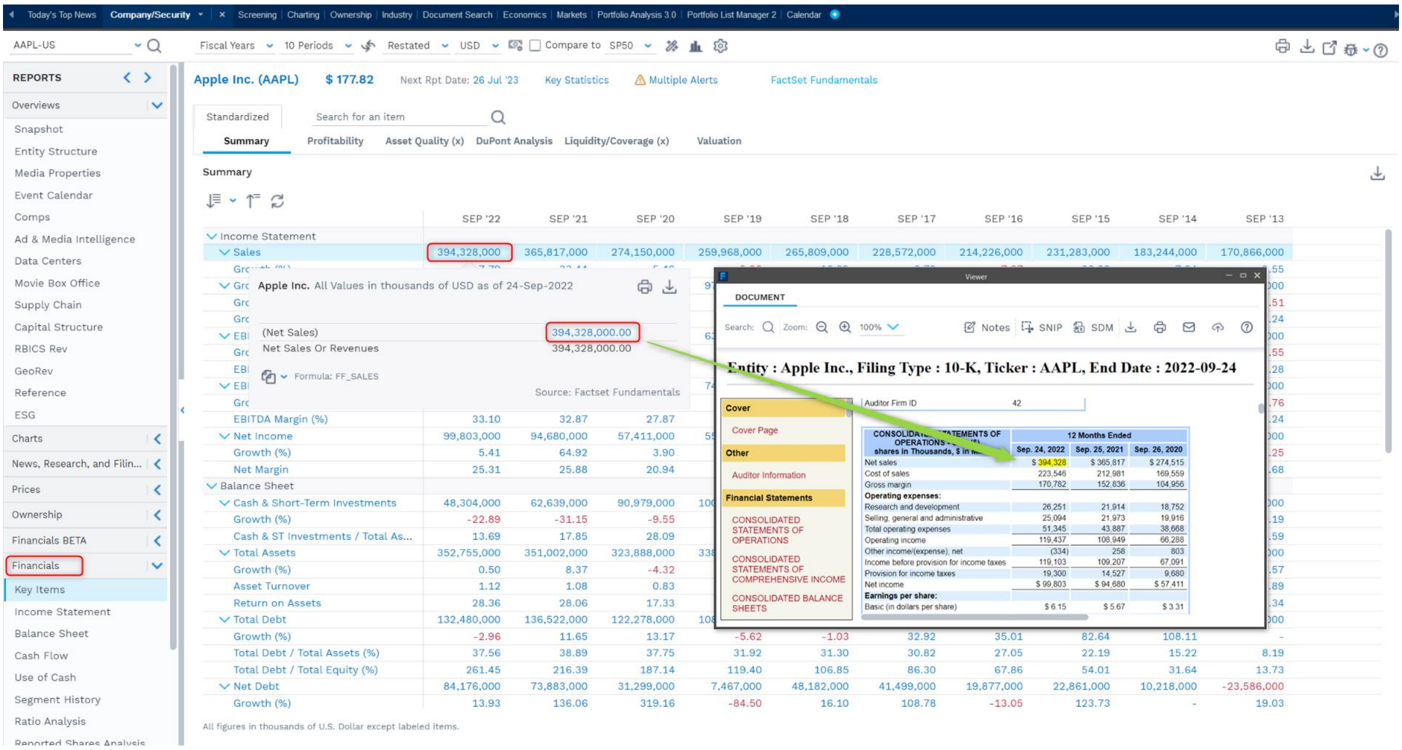

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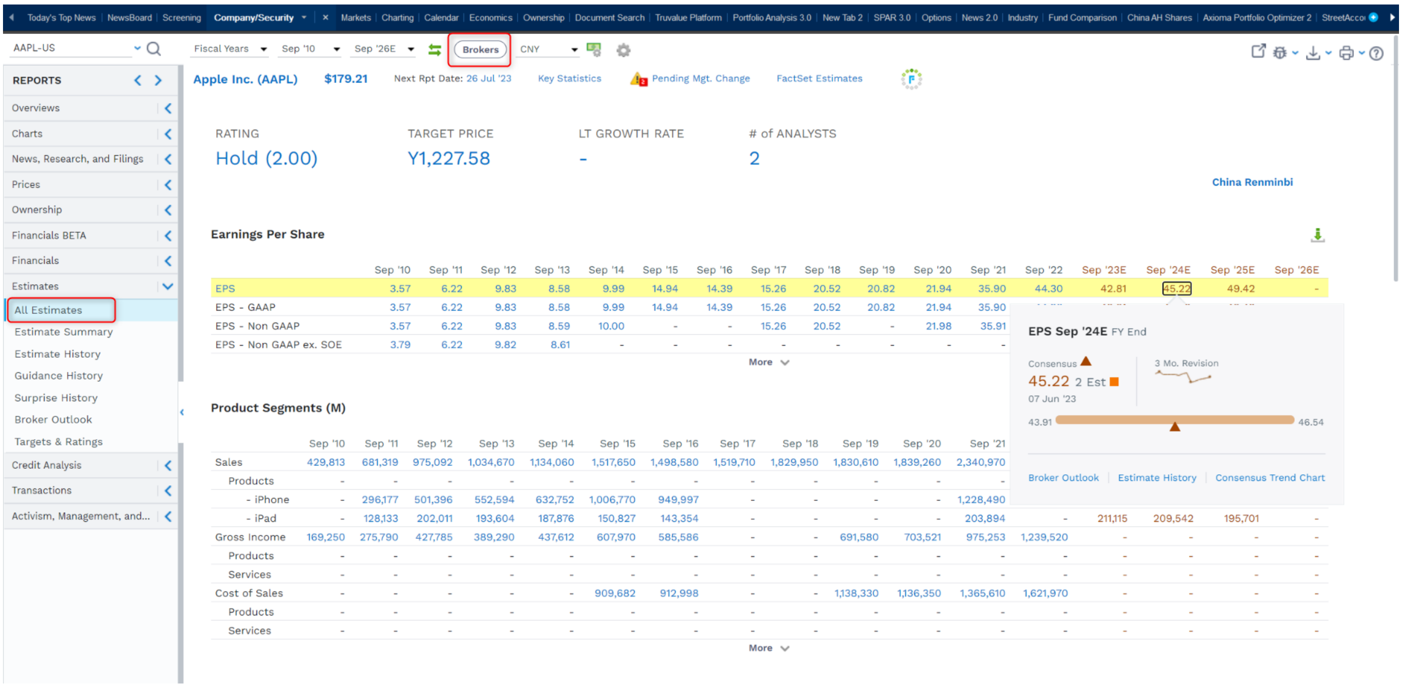
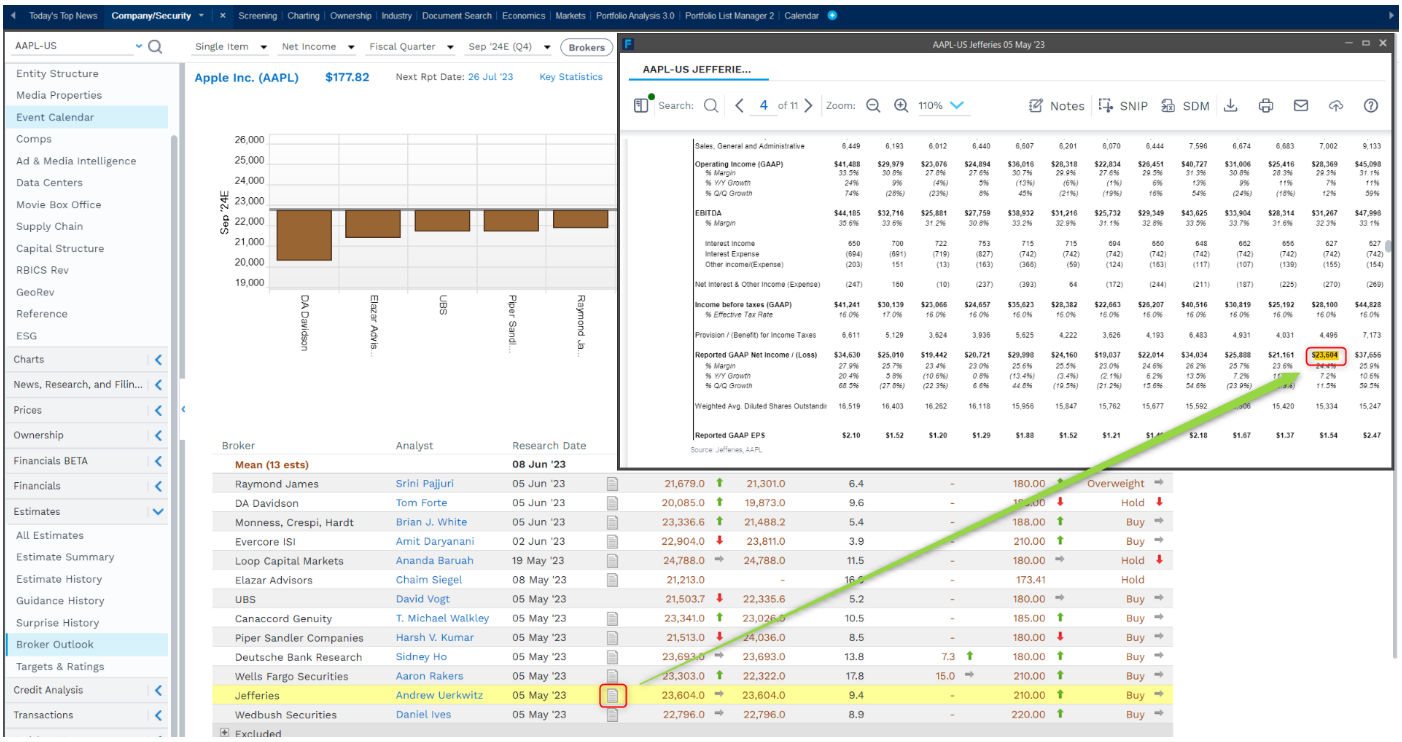
1.3.2 All Estimates (FactSet Estimates)

- **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。

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Portfolio List Manager 2
Calendar
AAPL-US
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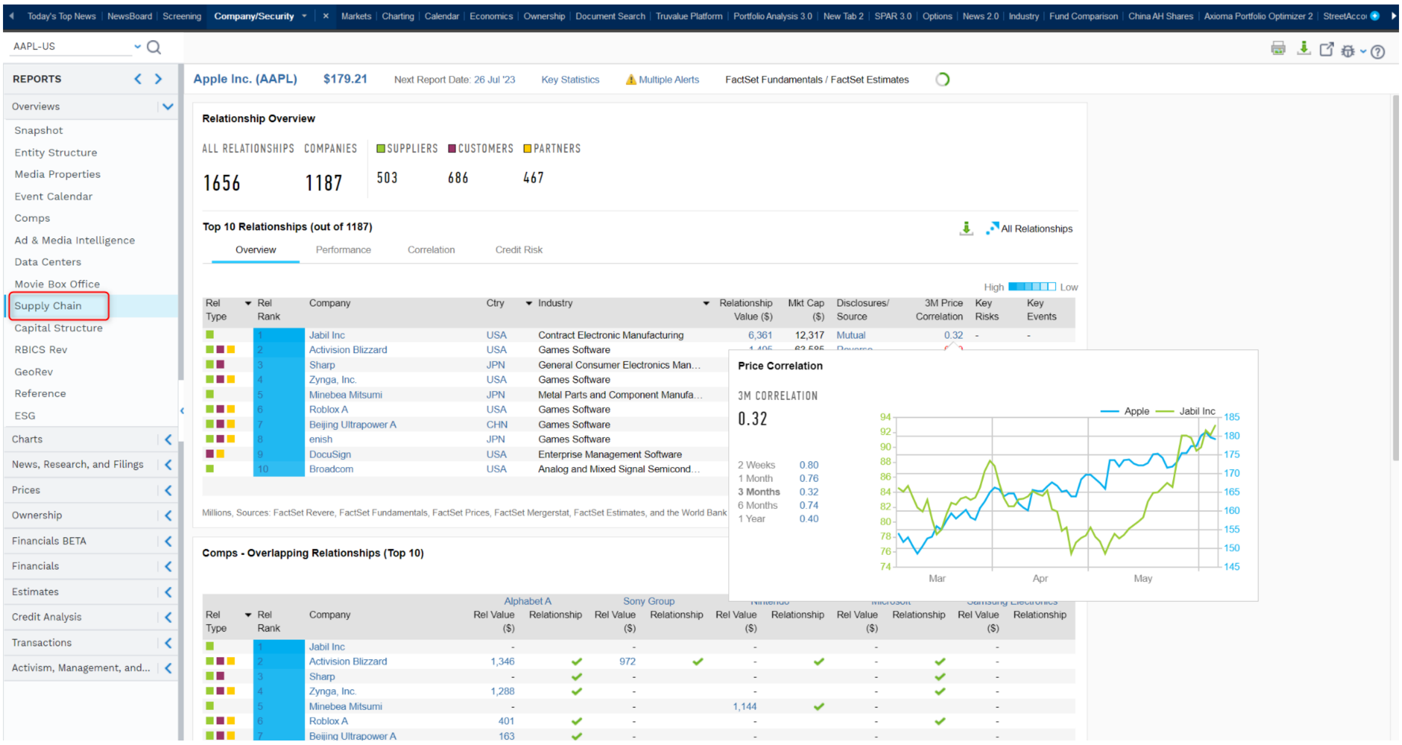
Media Properties
Event Calendar
Comps
Ad & Media Intelligence
Data Centers
Movie Box Office
Supply Chain
Capital Structure
RBICS Rev
GeoRev
Reference
ESG
Charts
News, Research, and Filin...
Prices
Ownership
Financials BETA
Financials
Estimates
All Estimates
Estimate Summary
Estimate History
Guidance History
Surprise History
Broker Outlook
Targets & Ratings
Credit Analysis
Transactions
Single Item
Net Income
Fiscal Quarter
Sep '24E (Q4)
Brokers
Apple Inc. (AAPL)
$177.82
Next Rpt Date: 26 Jul '23
Key Statistics
Sep '24E
DA Davidson
Elazar Advis...
UBS
Piper Sandl...
Raymond Ja...
AAPL-US Jefferies 05 May '23
AAPL-US JEFFERIE...
Search:
4 of 11
Zoom:
110%
Notes
SNIP
SDM
Broker
Analyst
Research Date
Mean (13 ests) 08 Jun '23
Raymond James Srini Pajjuri 05 Jun '23 21,679.0 21,301.0 6.4 - 180.00 Overweight
DA Davidson Tom Forte 05 Jun '23 20,085.0 19,873.0 9.6 - Hold
Monness, Crespi, Hardt Brian J. White 05 Jun '23 23,336.6 21,488.2 5.4 - 188.00 Buy
Evercore ISI Amit Daryanani 02 Jun '23 22,904.0 23,811.0 3.9 210.00 Buy
Loop Capital Markets Ananda Baruah 19 May '23 24,788.0 24,788.0 11.5 - 180.00 Hold
Elazar Advisors Chaim Siegel 08 May '23 21,213.0 - - 173.41 Hold
UBS David Vogt 05 May '23 21,503.7 22,335.6 5.2 - 180.00 Buy
Canaccord Genuity T. Michael Walkley 05 May '23 23,341.0 10.5 - 185.00 Buy
Piper Sandler Companies Harsh V. Kumar 05 May '23 21,513.0 8.5 - 180.00 Buy
Deutsche Bank Research Sidney Ho 05 May '23 23,693.0 13.8 7.3 180.00 Buy
Wells Fargo Securities Aaron Rakers 05 May '23 22,322.0 17.8 15.0 210.00 Buy
Jefferies Andrew Uerkwitz 05 May '23 23,604.0 23,604.0 9.4 - 210.00 Buy
Wedbush Securities Daniel Ives 05 May '23 22,796.0 22,796.0 8.9 - 220.00 Buy
Excluded

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。



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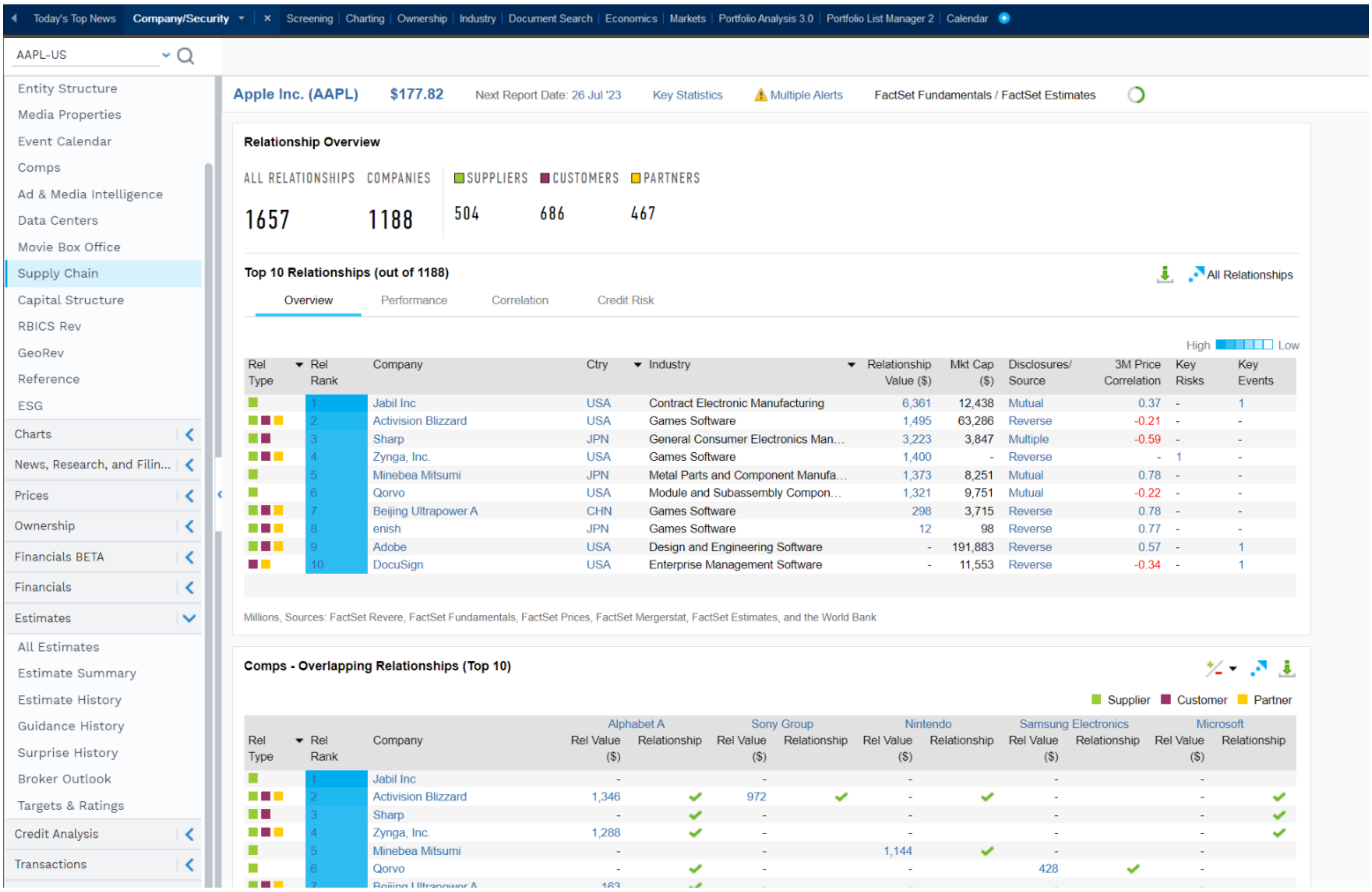

Today's Top News | Company/Security | Screening | Charting | Ownership | Industry | Document Search | Economics | Markets | Portfolio Analysis 3.0 | Portfolio List Manager 2 | Calendar

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)

All Relationships

Overview | Performance | Correlation | Credit Risk

High Low

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)

Supplier Customer Partner

Rel Type	Rel Rank	Company	Alphabet A Rel Value ($)	Alphabet A Relationship	Sony Group Rel Value ($)	Sony Group Relationship	Nintendo Rel Value ($)	Nintendo Relationship	Samsung Electronics Rel Value ($)	Samsung Electronics Relationship	Microsoft Rel Value ($)	Microsoft 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	✔	-	

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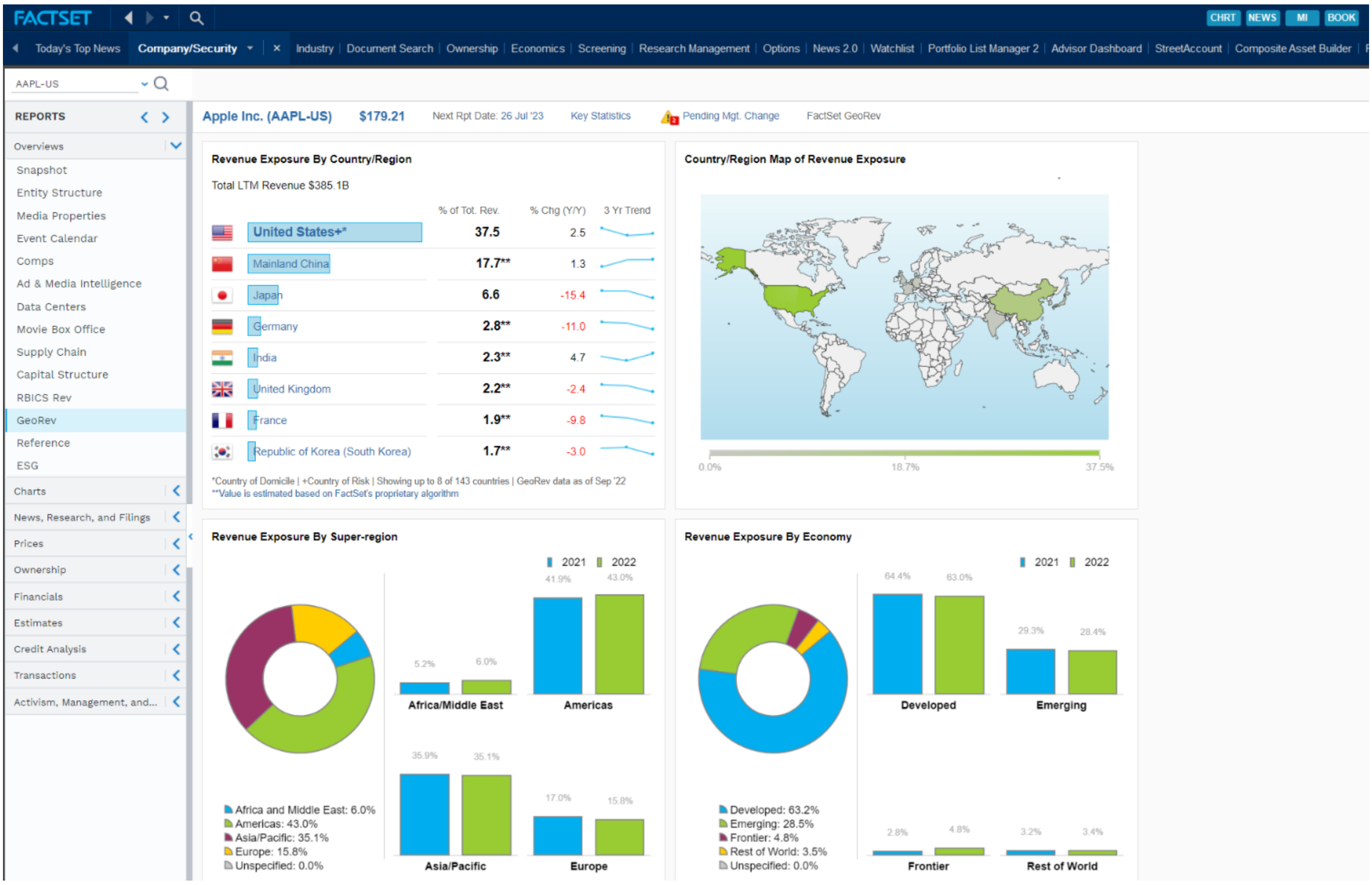
1.3.4 Geographic Revenue Exposure

- **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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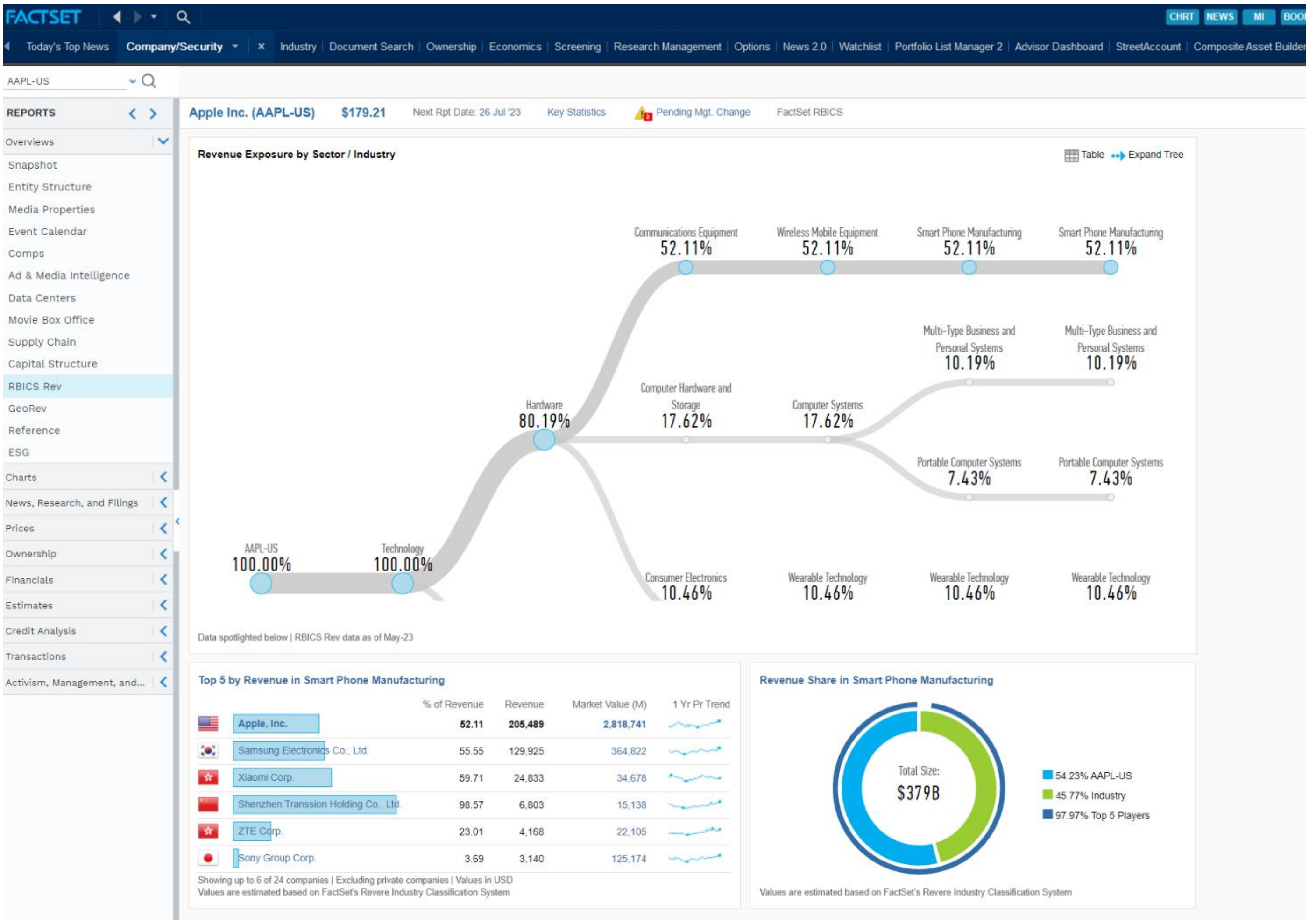
1.3.5 Industry/Sector Classification

- **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。



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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。

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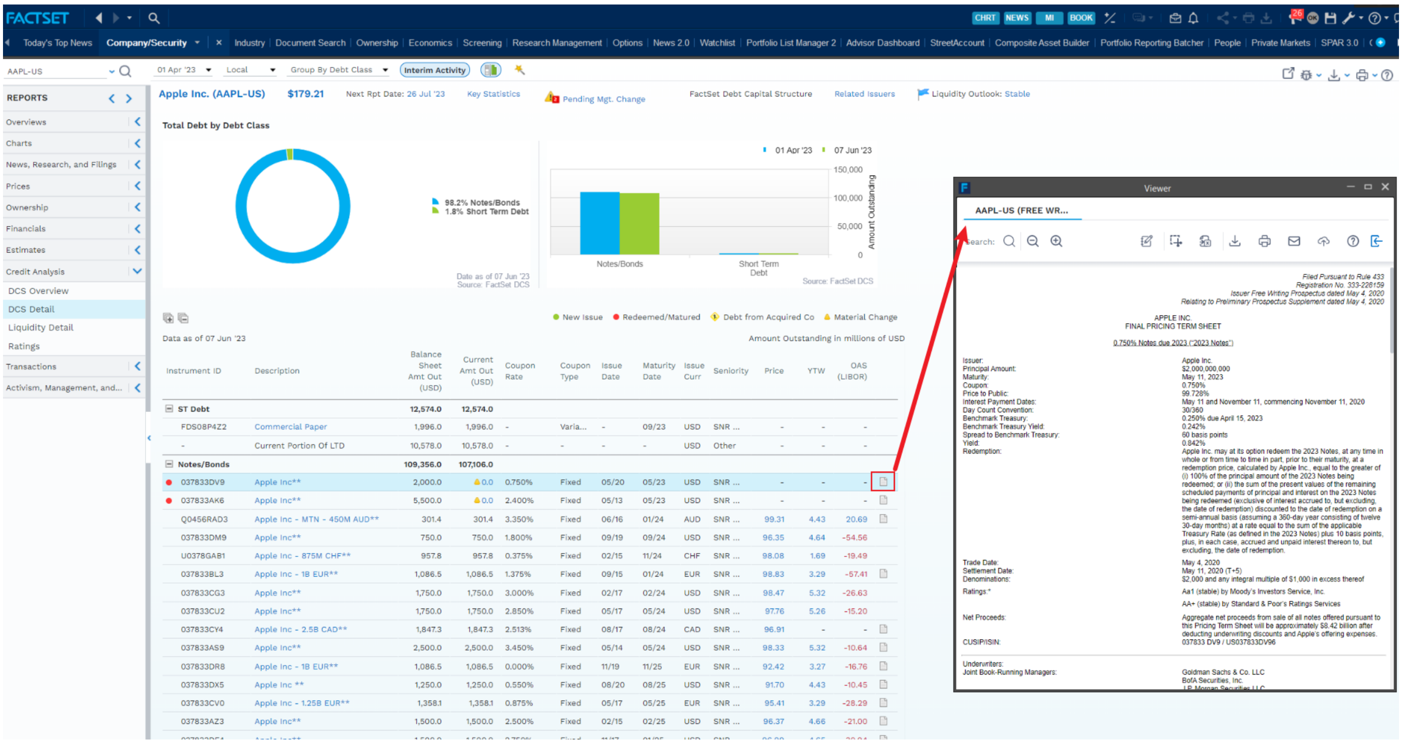
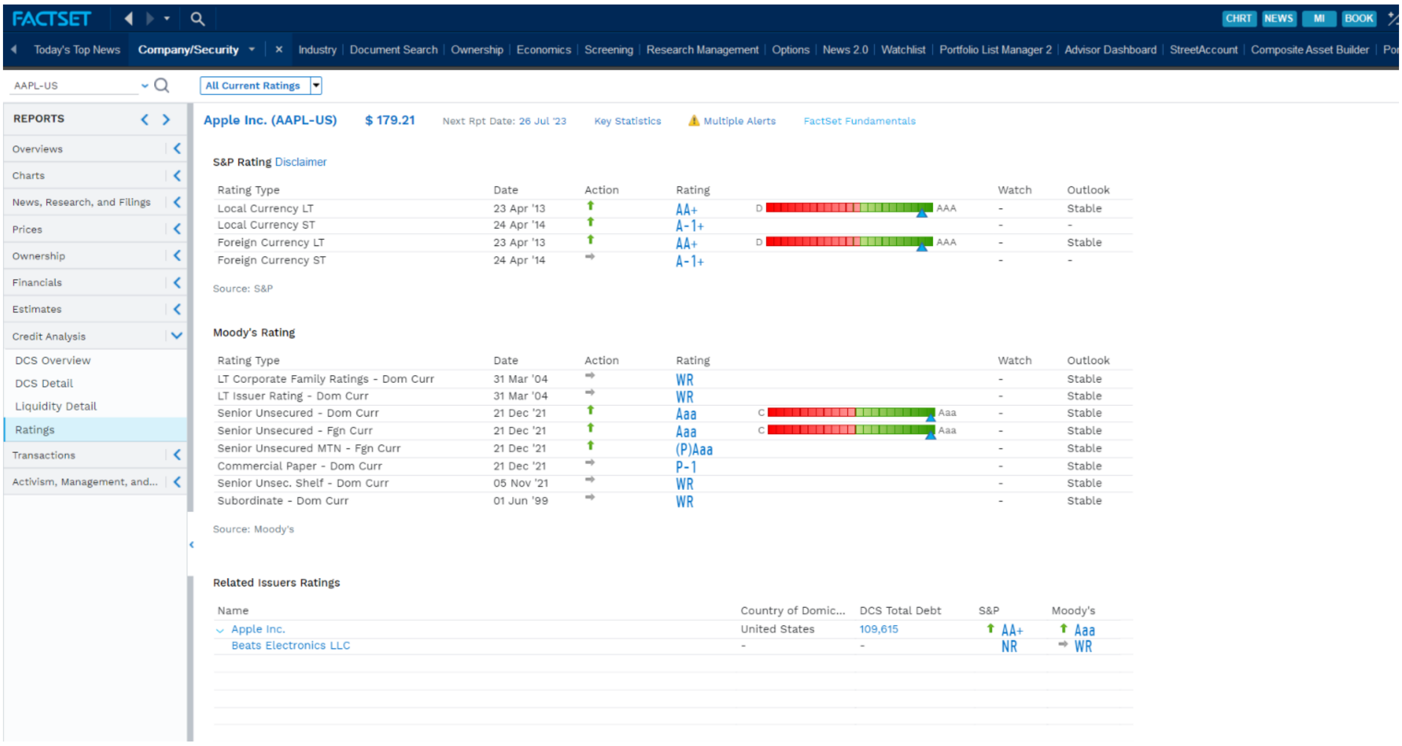

Apple Inc. (AAPL-US) $179.21
Total Debt by Debt Class
98.2% Notes/Bonds
1.8% Short Term Debt
Notes/Bonds
Short Term Debt
Data as of 07 Jun '23
Amount Outstanding in millions of USD
Viewer
APPLE INC.
FINAL PRICING TERM SHEET
0.750% Notes due 2023 ("2023 Notes")


Apple Inc. (AAPL-US) $ 179.21
S&P Rating Disclaimer
Rating Type | Date | Action | Rating | Watch | Outlook
Local Currency LT | 23 Apr '13 | AA+ | - | Stable
Local Currency ST | 24 Apr '14 | A-1+ | - | -
Foreign Currency LT | 23 Apr '13 | AA+ | - | Stable
Foreign Currency ST | 24 Apr '14 | A-1+ | - | -
Source: S&P
Moody's Rating
LT Corporate Family Ratings - Dom Curr | 31 Mar '04 | WR | - | Stable
LT Issuer Rating - Dom Curr | 31 Mar '04 | WR | - | Stable
Senior Unsecured - Dom Curr | 21 Dec '21 | Aaa | - | Stable
Senior Unsecured - Fgn Curr | 21 Dec '21 | Aaa | - | Stable
Senior Unsecured MTN - Fgn Curr | 21 Dec '21 | (P)Aaa | - | Stable
Commercial Paper - Dom Curr | 21 Dec '21 | P-1 | - | Stable
Senior Unsec. Shelf - Dom Curr | 05 Nov '21 | WR | - | Stable
Subordinate - Dom Curr | 01 Jun '99 | WR | - | Stable
Source: Moody's
Related Issuers Ratings
Name | Country of Domic... | DCS Total Debt | S&P | Moody's
Apple Inc. | United States | 109,615 | AA+ | Aaa
Beats Electronics LLC | - | - | NR | WR

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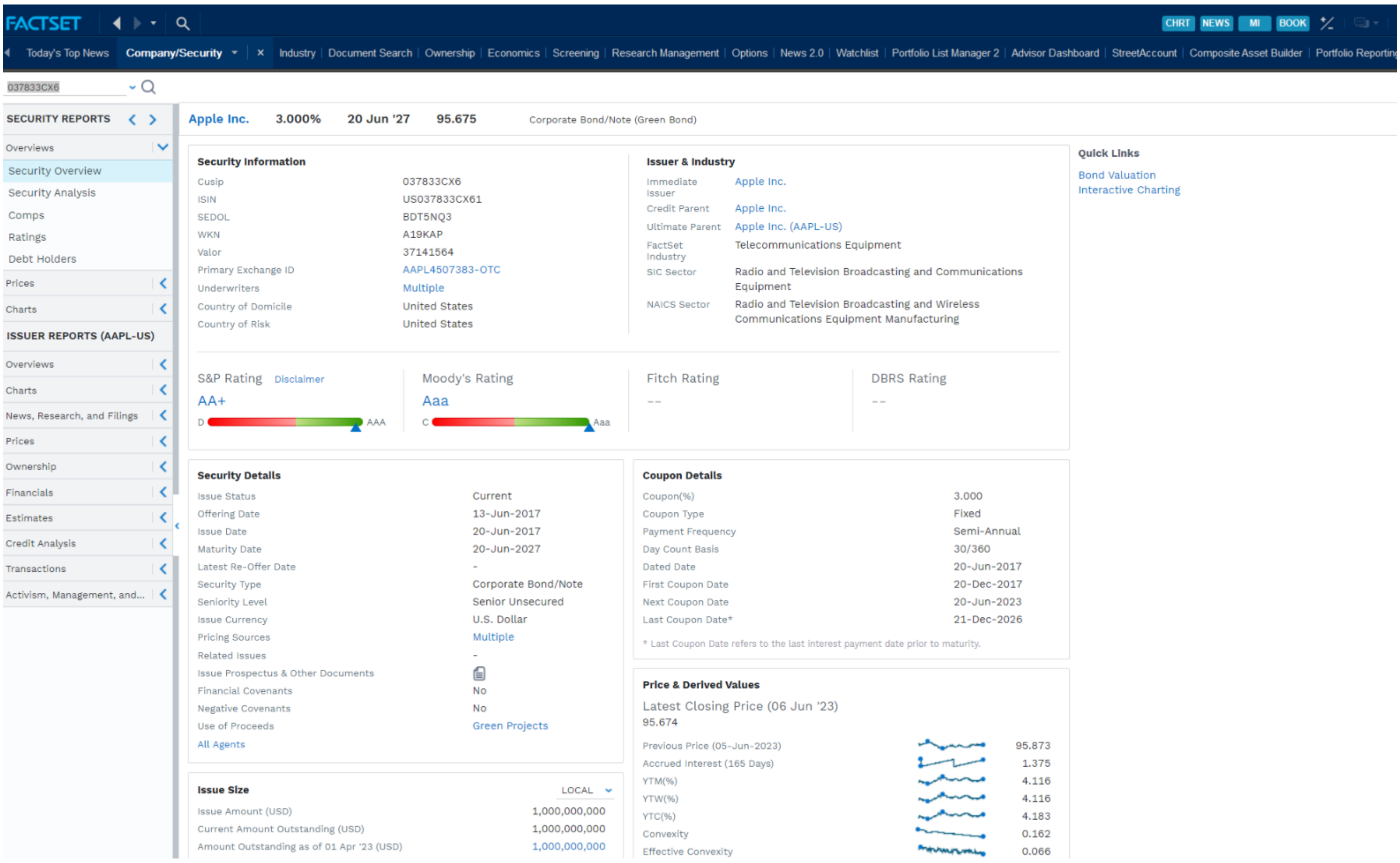
1.3.7 Bond/Note

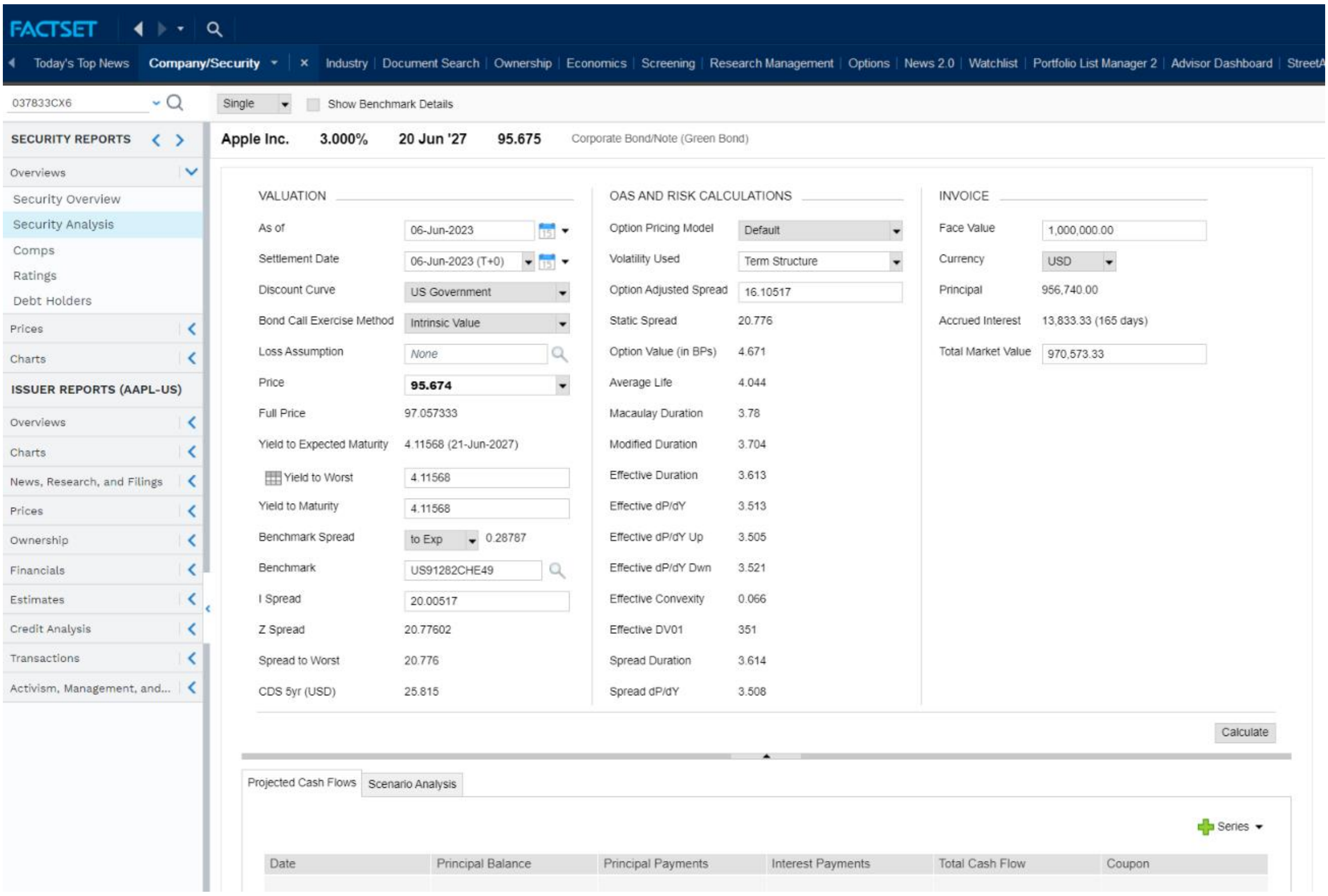
FactSet covers information on more than 36,000 bond issuers worldwide, including data on various credit instruments such as revolving credit, short-term loans, and bill bonds

- **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。





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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。

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899800 | Calendar Years | 10 Periods

REPORTS: Overviews, Charts, Prices, Financials, Key Items, Ratio Analysis, Estimates

MSCI AC Asia ex JP (899800) $632.92

Profitability (%) | Valuation (x) | Coverage (x) | Leverage (%)

Profitability (%)

	5Y Avg	DEC '22	DEC '21	DEC '20	DEC '19	DEC '18	DEC '17	DEC '16	DEC '15	DEC '14	DEC '13
Gross Margin	22.60	22.77	23.37	22.03	21.54	23.26	23.06	22.15	21.27	19.21	18.63
Operating Margin	11.83	11.57	12.66	10.88	11.00	13.04	12.61	11.87	11.35	10.57	10.55
Net Margin	9.19	9.33	9.85	8.09	8.65	10.04	9.76	8.64	9.14	8.50	8.34
EBIT Margin	10.36	10.14	10.89	[illegible]	9.64	11.71	11.24	9.95	9.51	8.41	8.21
EBITDA Margin	16.20	15.58	16.59	16.00	15.56	17.26	16.84	15.92	15.09	13.46	12.97
Return on Assets	2.01	2.09	2.09	1.65	1.93	2.30	2.17	1.98	2.16	2.27	2.30
Return on Equity	10.87	11.58	11.22	9.07	[illegible]	12.20	11.45	10.44	11.36	11.96	12.29
Return on Invested Capital	6.24	6.49	6.45	5.18	5.90	7.18	6.84	6.24	6.80	7.17	7.47
Free Cash Flow Margin	9.71	10.64	9.92	10.64	8.37	8.97	7.14	10.22	8.21	6.95	7.34

FMA Audit

MSCI AC Asia ex JP (ASJ-MSX) PORTFOLIO Mode Constituent count: **1213** with Data: **1093** Data in USD as of: 31 Dec '21

LTM Gross Margin (Portfolio Mode)	23.37
Gross Income (Available)	770,909.13
/ LTM Sales (Available)	3,298,408.46
Gross Margin	**23.37**

FMA_GROSS_MARGIN('LTM','0','-9','CY','LOCAL','PORTAGG','MEANR');
Source: FactSet Market Aggregates

Gross Margin LTM as of 31 Dec 2021 **23.37** Gross Income (adj'd) = **770,909.13** 3,2

Symbols	Constituents	Gross Income (adj'd) =	(Gross Income *	Position Adj't Factor %)
BDF57C1	360 Security Technology, Inc. Class A	66.93	1,112.97	6.01
BD5CMH2	37 Interactive Entertainment Netwo...	118.53	1,979.40	5.99
1530-HK	3SBio, Inc.	373.18	738.49	50.53
JOBS-US	51job Inc Sponsored ADR	185.37	411.93	45.00
3319-HK	A-Living Smart City Services Co., L...	215.50	538.75	40.00

AAXJ-US | Single Period | EPS | Annual | CY Dec '23E | Three Months Ago

REPORTS: Overviews, News, Research, and Filings, Charts, Prices, Holdings, Ownership, Financials, Key Items, Ratio Analysis, Estimates, All Estimates, Estimate History, Targets & Ratings

iShares MSCI All Country Asia ex Japan ETF (AAXJ-US) $67.36 FactSet Market Aggregates

U.S. Dollar

Date	EPS	Earnings Growth (%)	PE (x)	PEG (x)	Num of Cos Up	Num of Cos Down	Num of Cos Unch
01 Jun '23	4.69	-2.5	14.0	1.0	319	437	226
01 Jun '23	4.69	-2.5	14.0	1.0	319	437	226
26 May '23	4.71	-2.0	14.0	1.0	334	468	166
19 May '23	4.69	-2.5	14.1	1.0	352	472	141
12 May '23	4.67	-3.0	14.0	1.1	334	499	132
05 May '23	4.76	-1.0	14.1	1.1	336	486	144
28 Apr '23	4.76	-1.0	14.0	1.1	324	516	123
21 Apr '23	4.75	-1.3	14.0	1.1	301	535	122
14 Apr '23	4.77	-0.8	14.2	1.1	305	560	98
06 Apr '23	4.82	0.1	14.1	1.1	292	555	118
31 Mar '23	4.83	0.5	14.0	1.1	302	526	140
24 Mar '23	4.87	1.3	13.7	1.2	280	385	304
17 Mar '23	4.83	0.5	13.4	1.1	274	393	301
10 Mar '23	4.86	1.0	13.3	1.0	280	375	315

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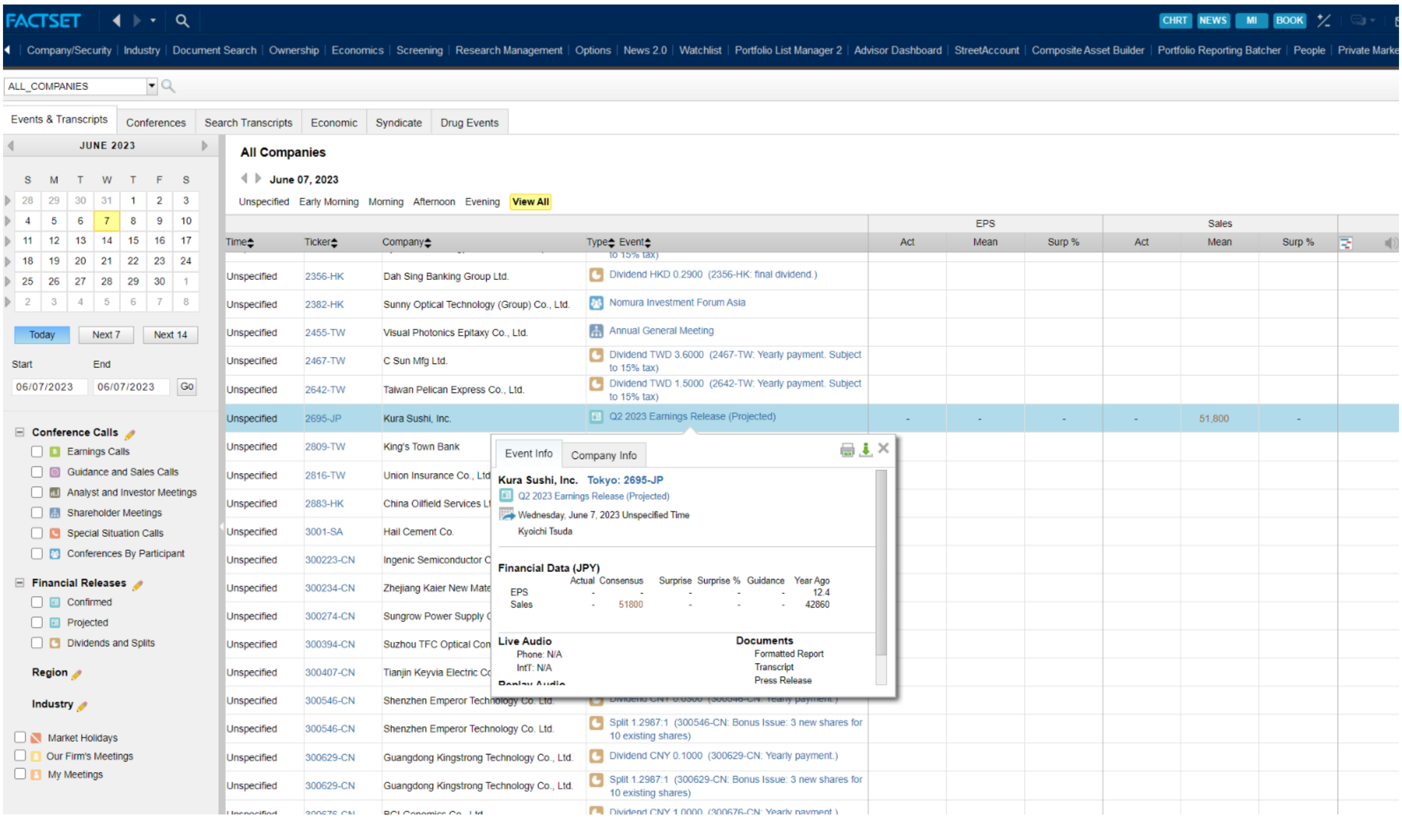
1.4 FactSet Events and Transcripts - @EC

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。



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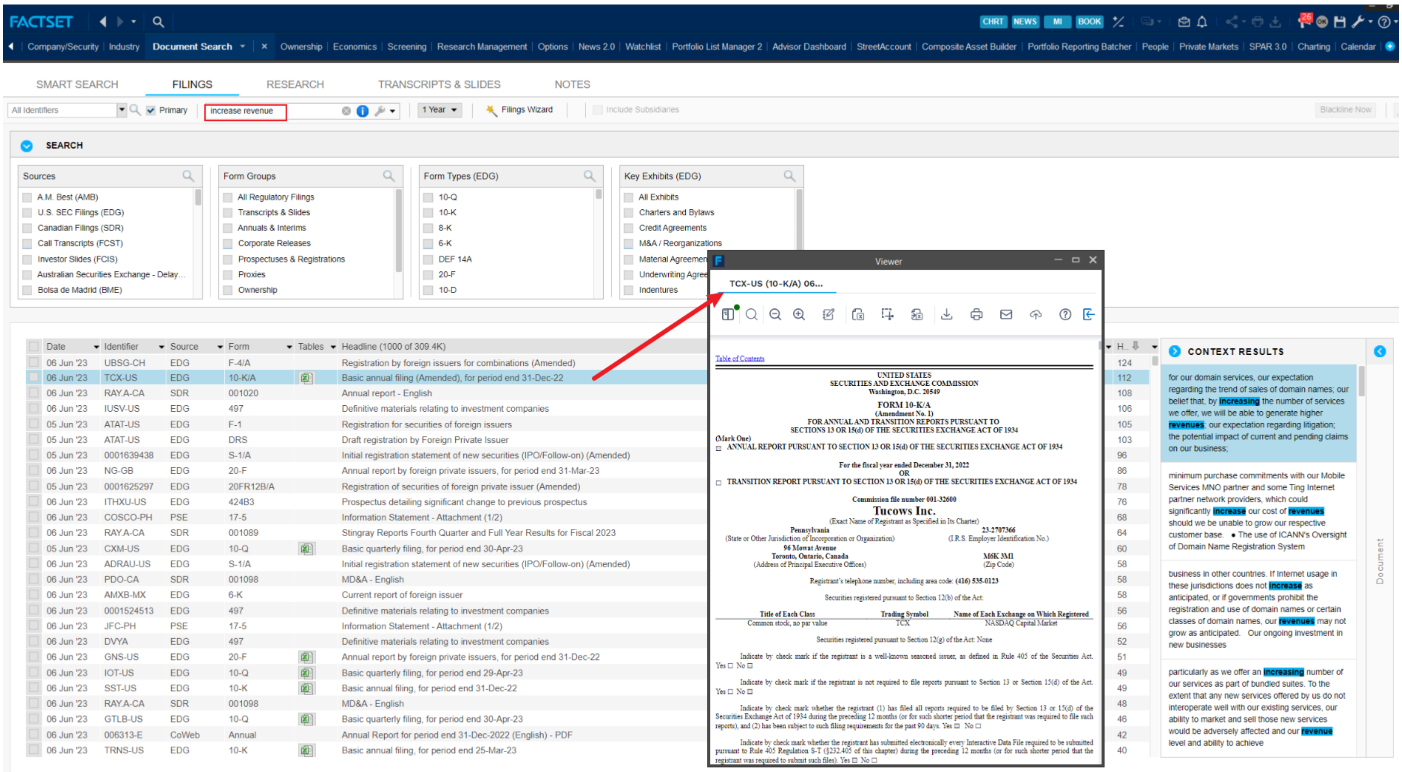
1.5 FactSet Filings - @F

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

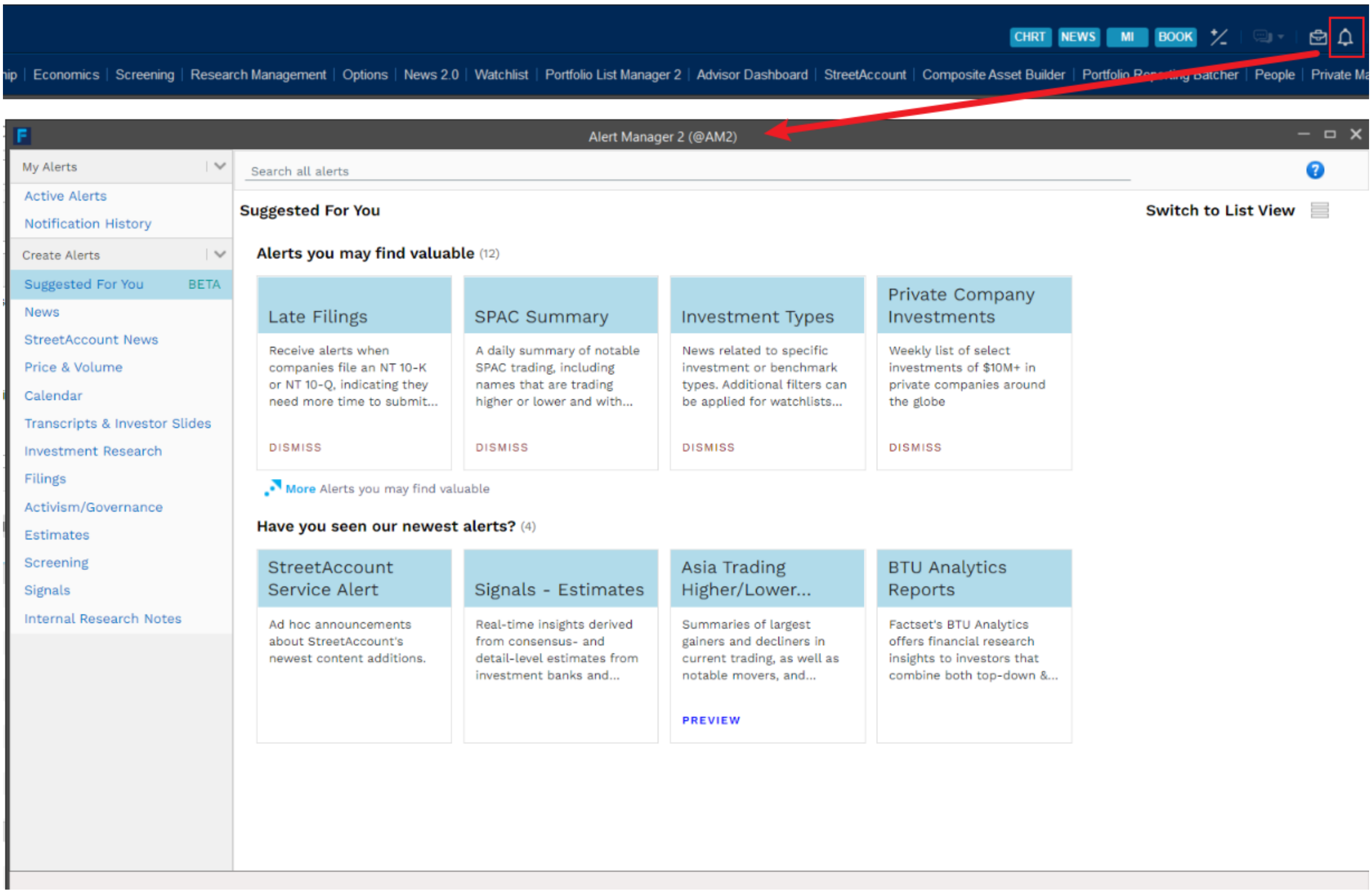
本报告是集合了上市公司申报文件的一站式平台，帮助用户迅速找到所需文件。

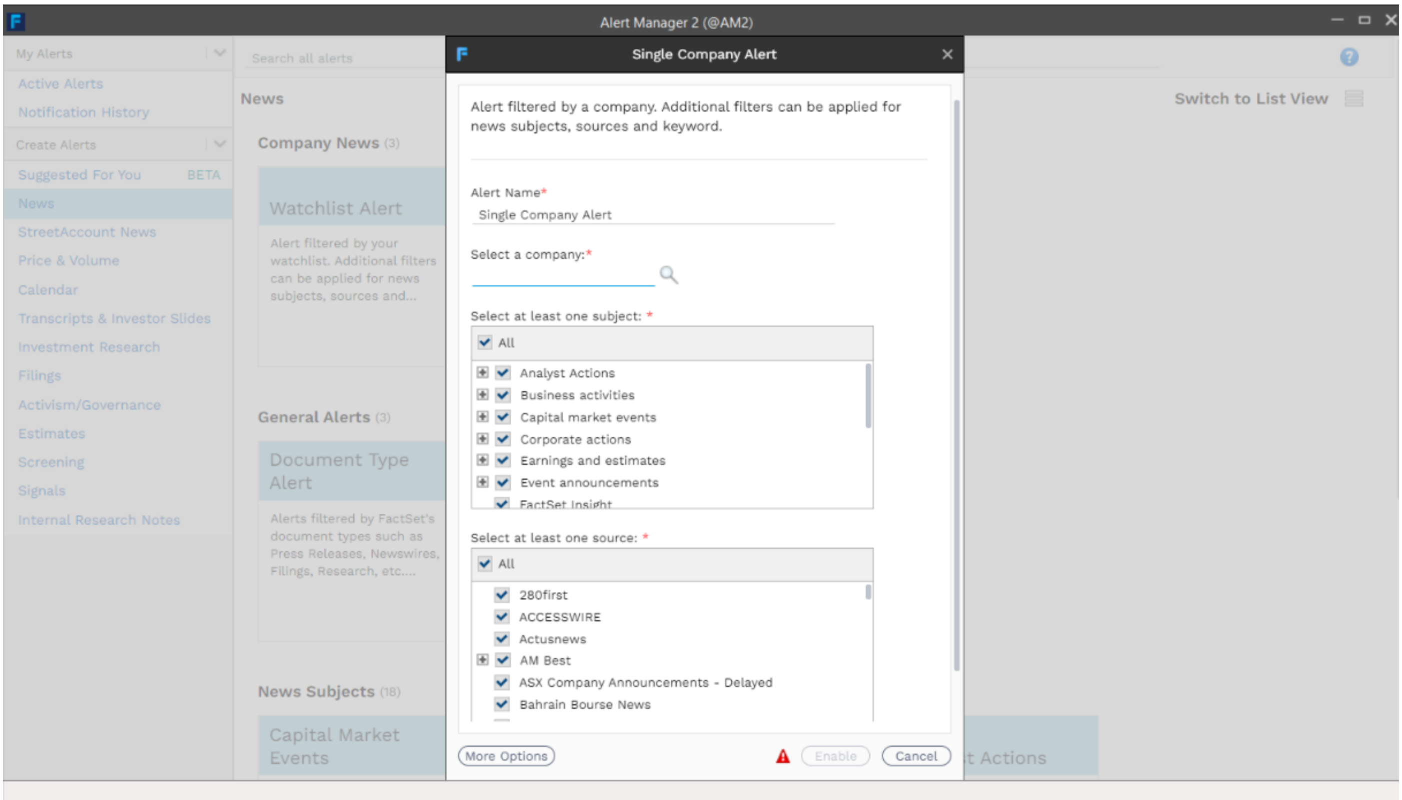
- 详细和有效的搜索
  本报告是根据关键词、点击率分类，有详尽的分组，可通过作者/分析员筛选，个人化的样本选择（公司，指数，投资组合，市场选择等等），下载多个文件到一个或多个文档。
- 覆盖面广
  覆盖了全面的公司规范性申报内容、招股说明书，年度报告、中期报告和非规范性文件。在同一窗口，您也可以查看与该文档相关的其他文档。
- Blackline Reports
  Blackline Reports 突出显示了两个文件之间的添加，删除和更改。

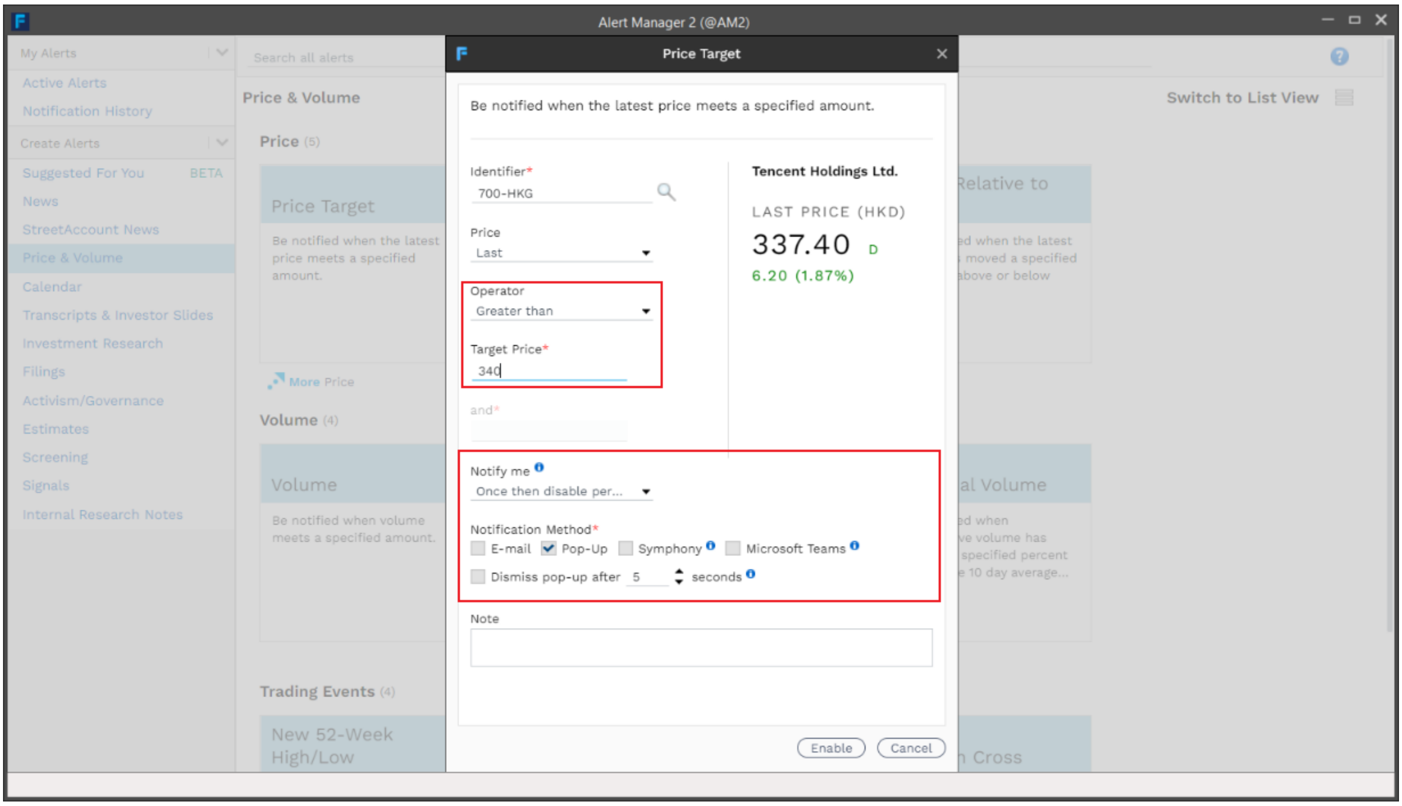


1.6 Alert Manager2 - @AM2

- 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）。




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
Select at least one source: *
All
280first
ACCESSWIRE
Actusnews
AM Best
ASX Company Announcements - Delayed
Bahrain Bourse News
More Options
Enable
Cancel
My Alerts
Active Alerts
Notification History
Create Alerts
Suggested For You BETA
News
StreetAccount News
Price & Volume
Calendar
Transcripts & Investor Slides
Investment Research
Filings
Activism/Governance
Estimates
Screening
Signals
Internal Research Notes
Company News (3)
Watchlist Alert
General Alerts (3)
Document Type Alert
News Subjects (18)
Capital Market Events
Switch to List View


Alert Manager 2 (@AM2)
Price Target
Be notified when the latest price meets a specified amount.
Identifier*
700-HKG
Tencent Holdings Ltd.
LAST PRICE (HKD)
337.40 D
6.20 (1.87%)
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
Price & Volume
Price (5)
Price Target
More Price
Volume (4)
Volume
Trading Events (4)
New 52-Week High/Low
Switch to List View

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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.

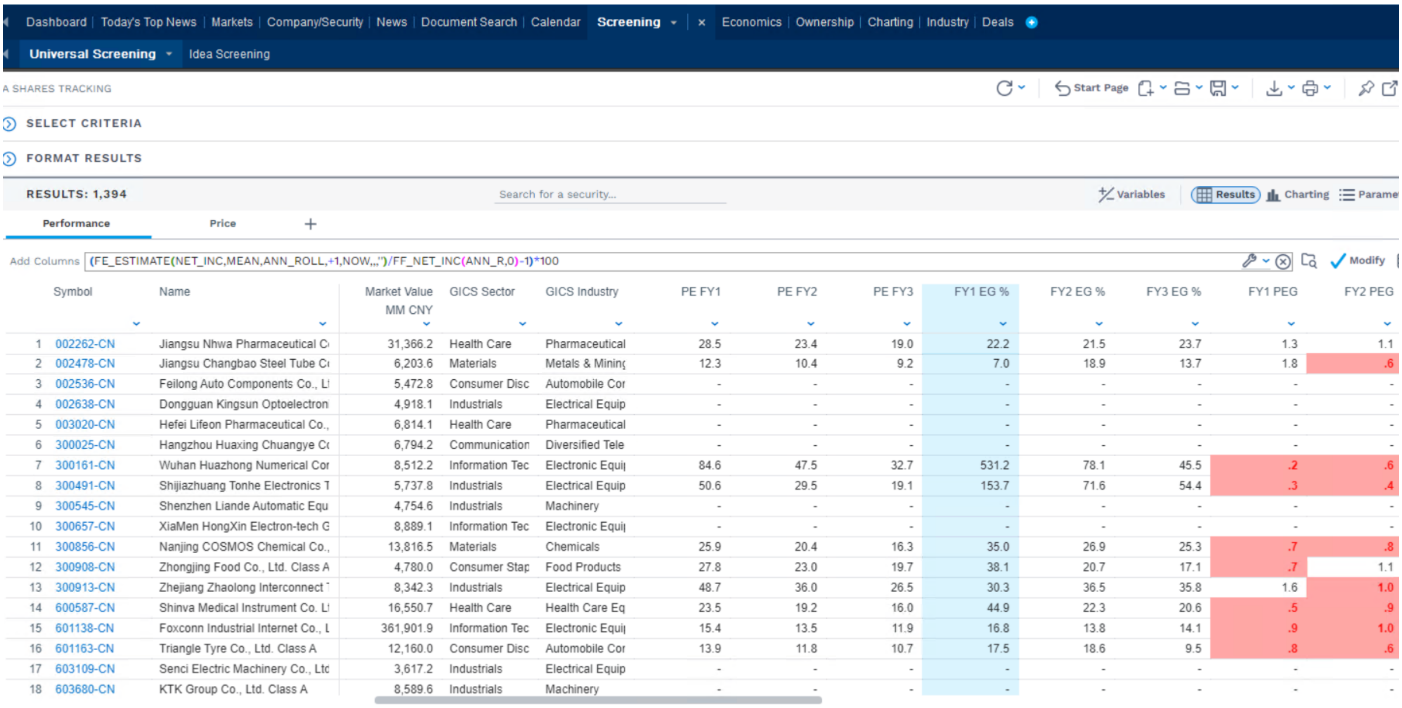
  Universal Screening 让你找出符合特定标准的股票和固定收入证券，并透过 Equity/Debt Screening 创建相关公司的**分析**报告。

- With above Equity Screening, you can test and confirm investment strategies across database simultaneously

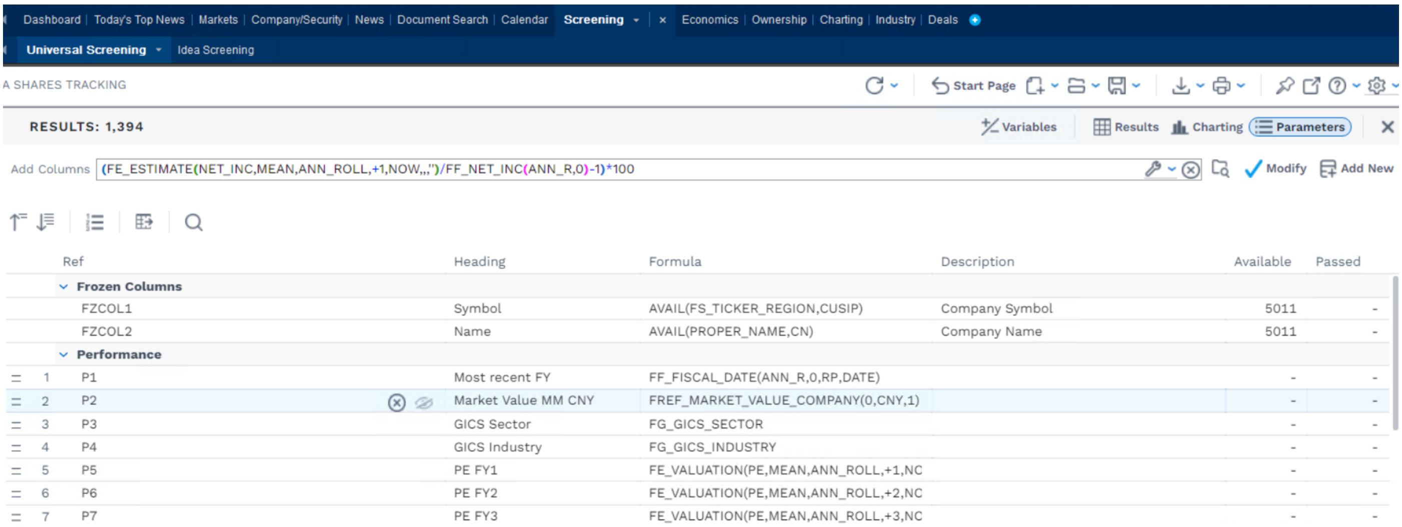
  以上的 Equity Screening 让你同时**提取**多个**数据**库上**的资料作**测试并确认投资策略。

- 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。



	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 C	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 C	6,203.6	Materials	Metals & Minin	12.3	10.4	9.2	7.0	18.9	13.7	1.8	.6
3	002536-CN	Feilong Auto Components Co., L	5,472.8	Consumer Disc	Automobile Co	-	-	-	-	-	-	-	-
4	002638-CN	Dongguan Kingsun Optoelectron	4,918.1	Industrials	Electrical Equip	-	-	-	-	-	-	-	-
5	003020-CN	Hefei Lifeon Pharmaceutical Co.,	6,814.1	Health Care	Pharmaceutical	-	-	-	-	-	-	-	-
6	300025-CN	Hangzhou Huaxing Chuangye C	6,794.2	Communication	Diversified Tele	-	-	-	-	-	-	-	-
7	300161-CN	Wuhan Huazhong Numerical Co	8,512.2	Information Tec	Electronic Equi	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 G	8,889.1	Information Tec	Electronic Equi	-	-	-	-	-	-	-	-
11	300856-CN	Nanjing COSMOS Chemical Co.,	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 Stap	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. L	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., L	361,901.9	Information Tec	Electronic Equi	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 Co	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 | Economics | Ownership | Charting | Industry | Deals
Universal Screening
Idea Screening
A SHARES TRACKING
Start Page
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
Ref
Heading
Formula
Description
Available
Passed
Frozen Columns
FZCOL1 Symbol AVAIL(FS_TICKER_REGION,CUSIP) Company Symbol 5011 -
FZCOL2 Name AVAIL(PROPER_NAME,CN) Company Name 5011 -
Performance
1 P1 Most recent FY FF_FISCAL_DATE(ANN_R,0,RP,DATE) - -
2 P2 Market Value MM CNY FREF_MARKET_VALUE_COMPANY(0,CNY,1) - -
3 P3 GICS Sector FG_GICS_SECTOR - -
4 P4 GICS Industry FG_GICS_INDUSTRY - -
5 P5 PE FY1 FE_VALUATION(PE,MEAN,ANN_ROLL,+1,NC - -
6 P6 PE FY2 FE_VALUATION(PE,MEAN,ANN_ROLL,+2,NC - -
7 P7 PE FY3 FE_VALUATION(PE,MEAN,ANN_ROLL,+3,NC - -

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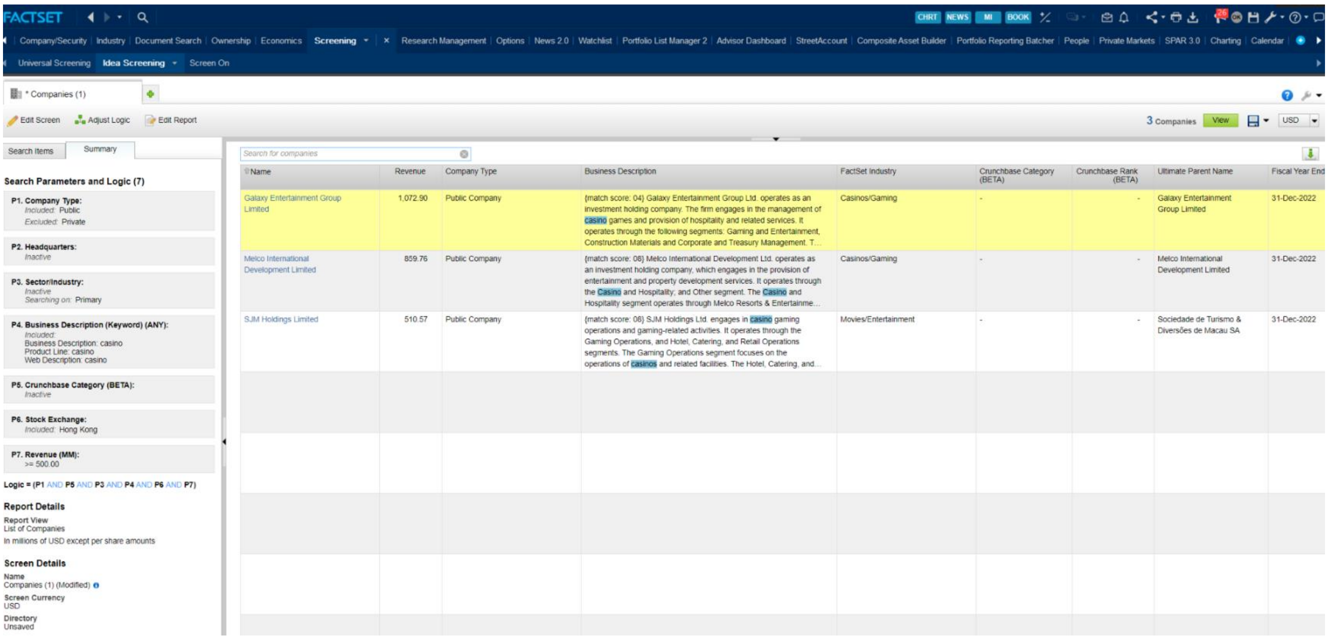
1.7.2 Idea Screening - @ISC

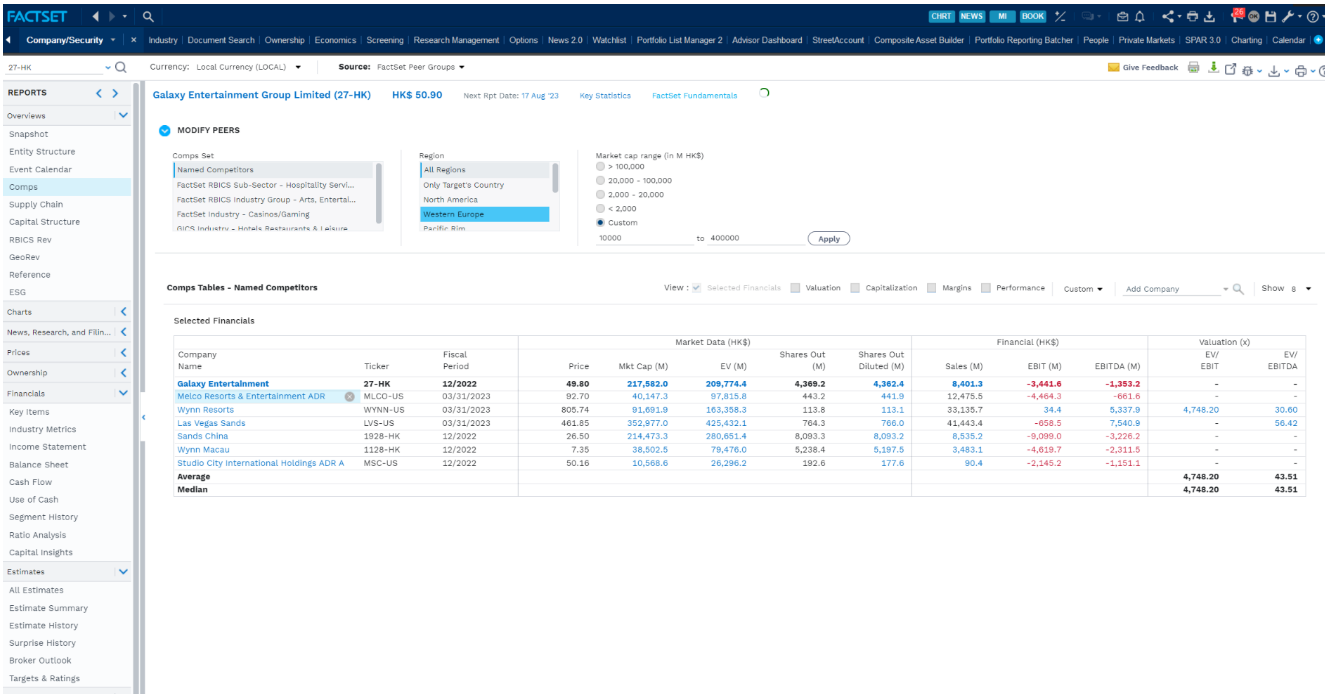
- Idea Screening allows you to screen and report on Companies, M&A, Private Equity/Venture Capital, Public Equity Offerings, and Private Placements

  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。





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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

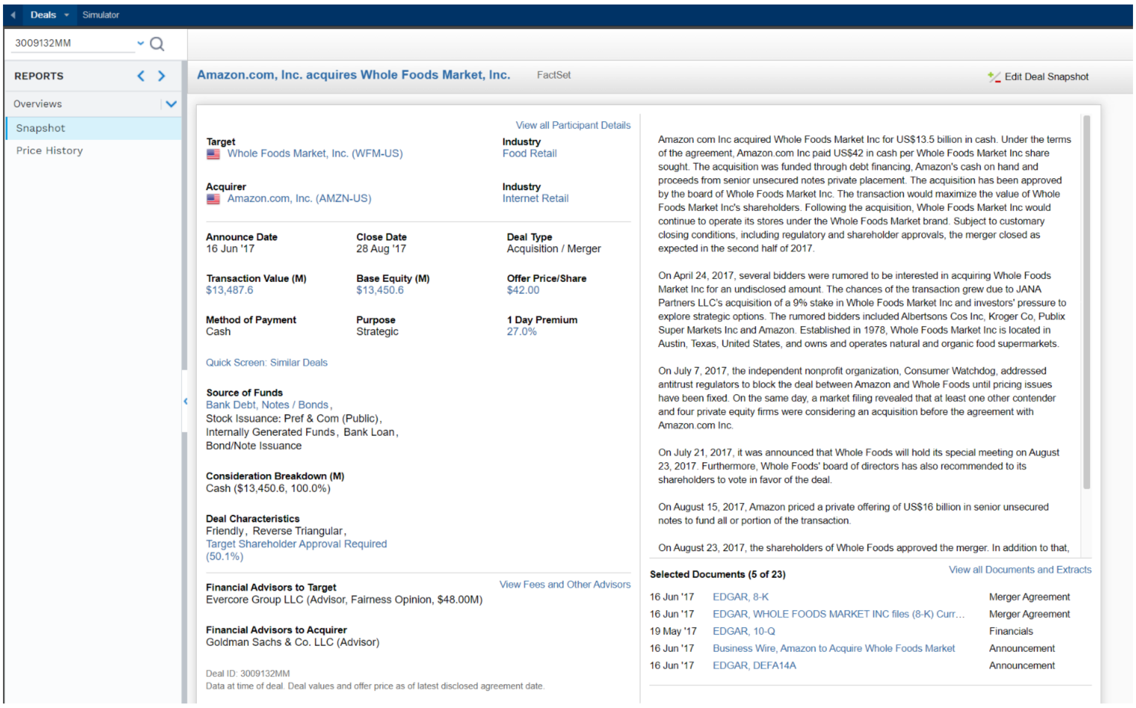
  Deals 页面让你**查询**有关交易条款和关键参与者的报告，以及并购交易中的股票和收入潜在信息。

- 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。



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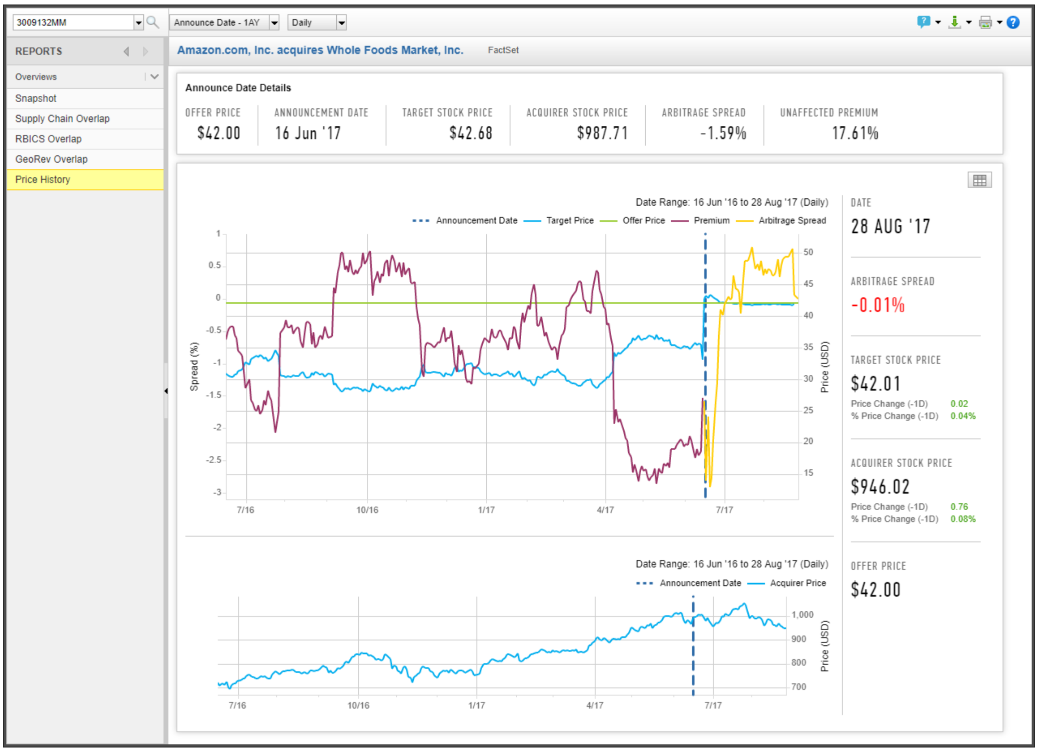

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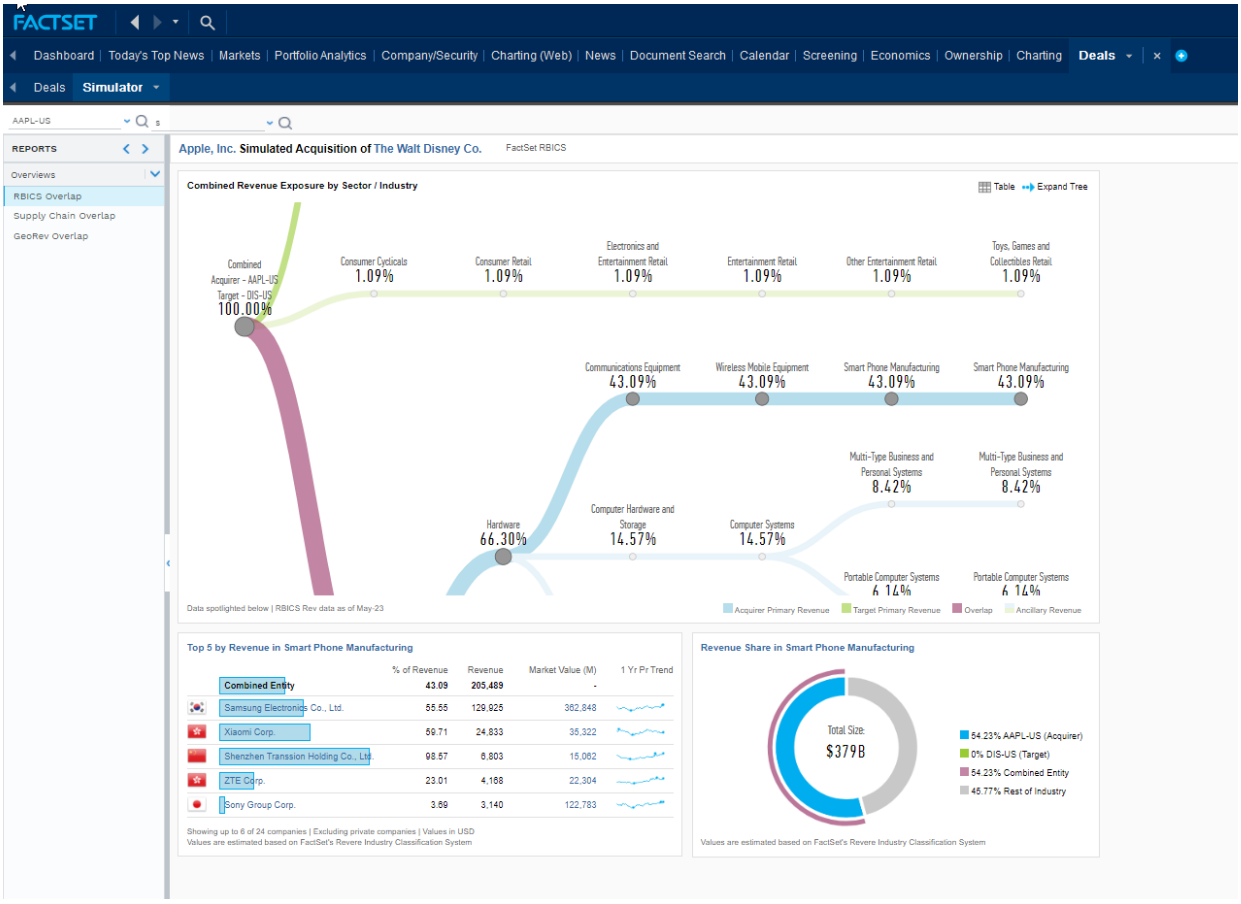
1.8.1 Deals Simulator

- 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？」。



	% of Revenue	Revenue	Market Value (M)	1 Yr Pr Trend
Combined Entity	43.09	205,489	-	
Samsung Electronics Co., Ltd.	55.55	129,925	362,848	
Xiaomi Corp.	59.71	24,833	35,322	
Shenzhen Transsion Holding Co., Ltd.	98.57	6,803	15,062	
ZTE Corp.	23.01	4,168	22,304	
Sony Group Corp.	3.69	3,140	122,783	

Showing up to 6 of 24 companies | Excluding private companies | Values in USD
Values are estimated based on FactSet's Revere Industry Classification System

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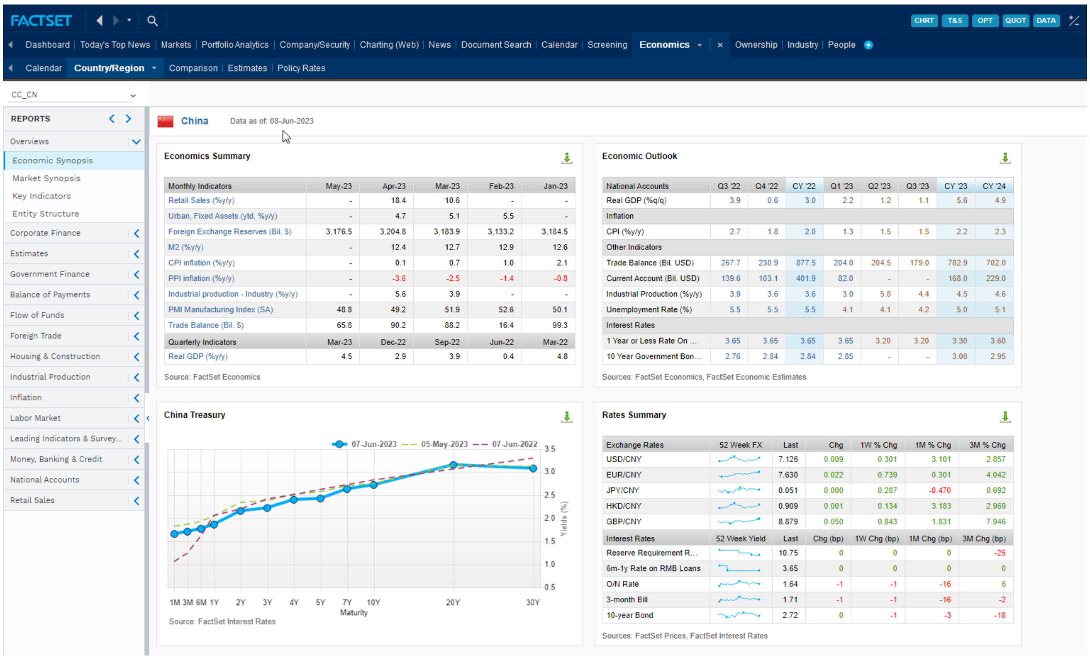
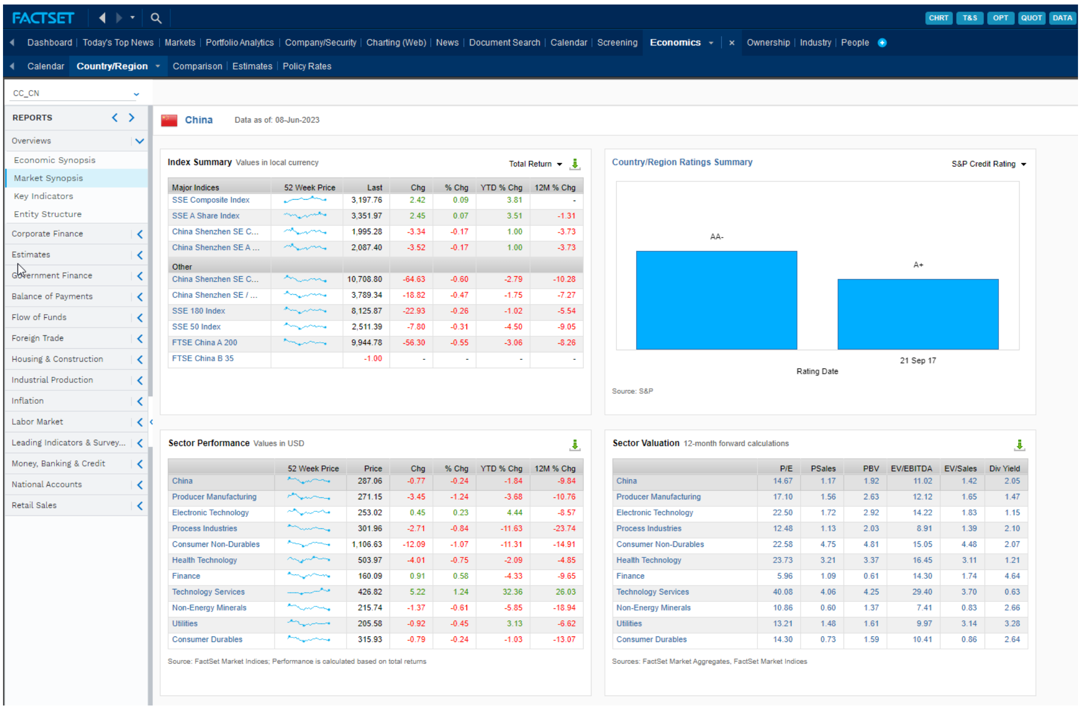
1.9 FactSet Economics - @ECON

- **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。**





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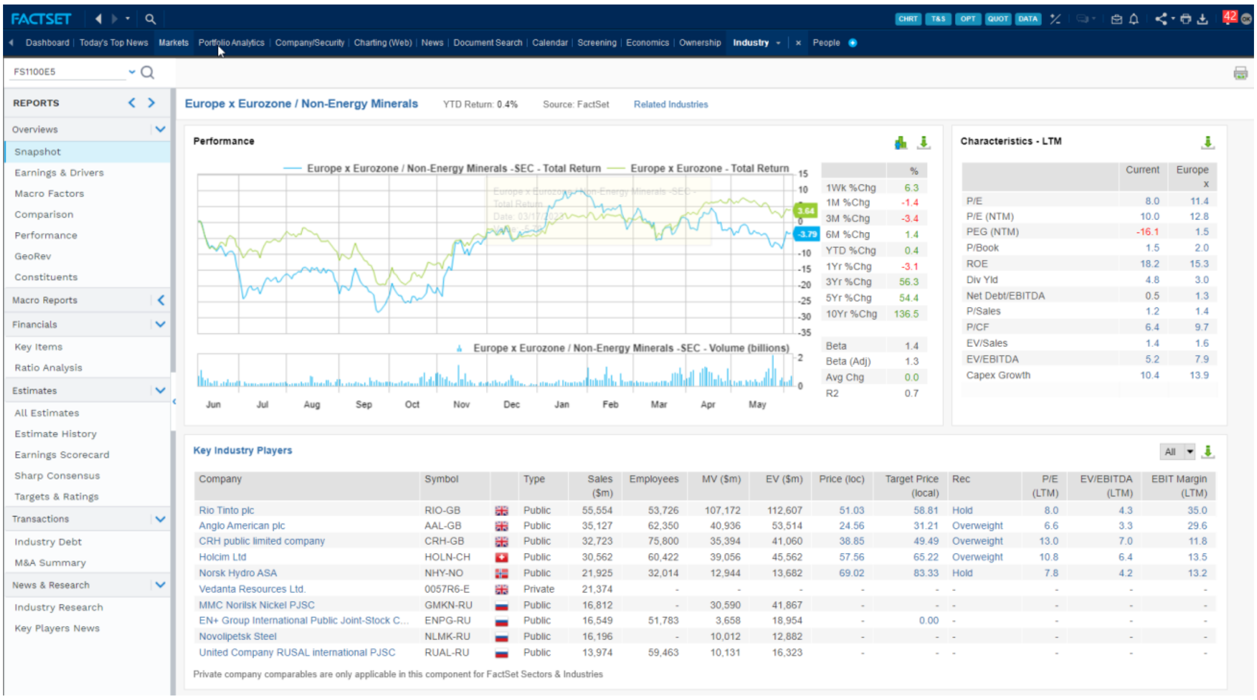
1.10 FactSet Industry (Industry Analysis)

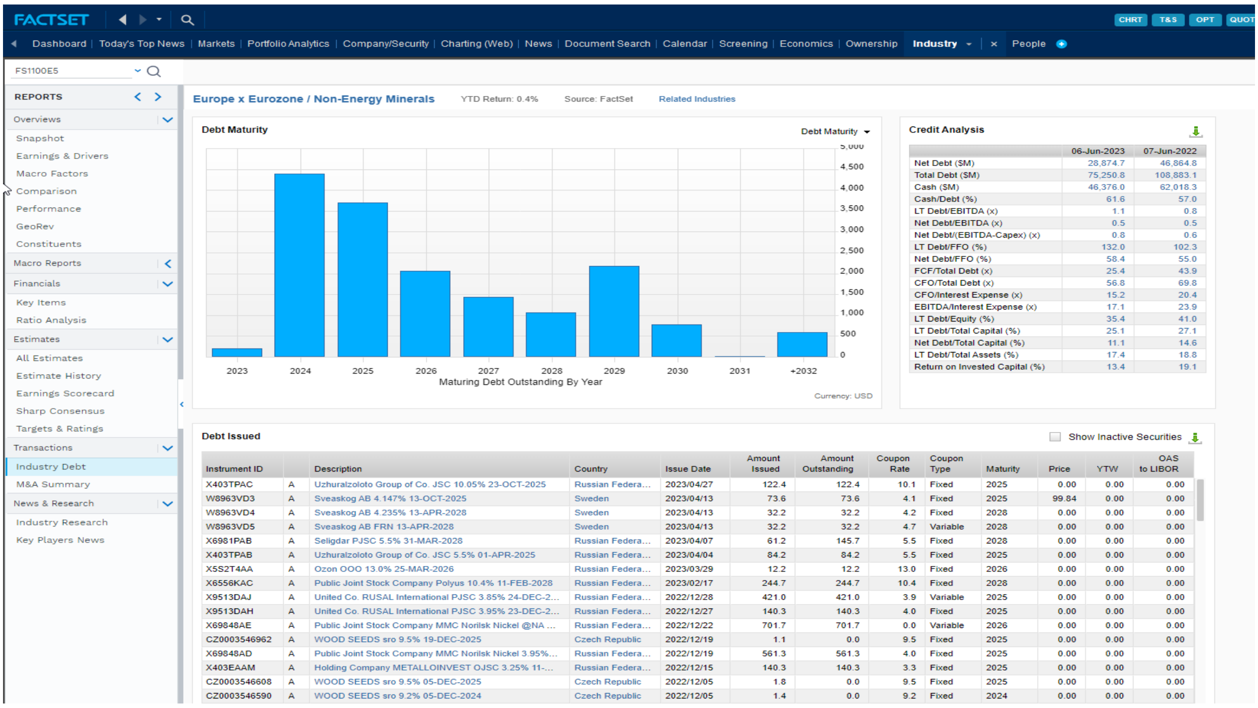
- The Industry tab allows you to seamlessly analyze industry-level data within a single tab.

  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。





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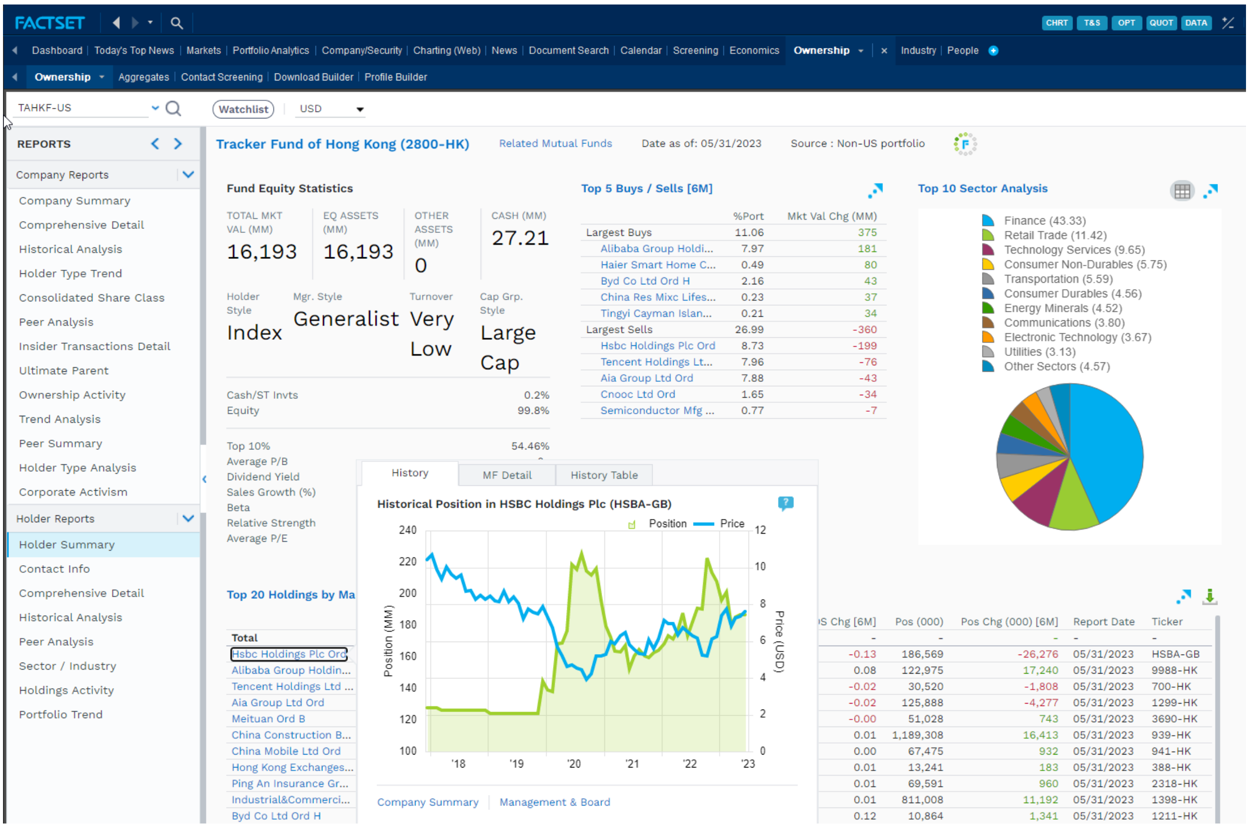
1.11 FactSet Ownership - @OS3

- 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**。*



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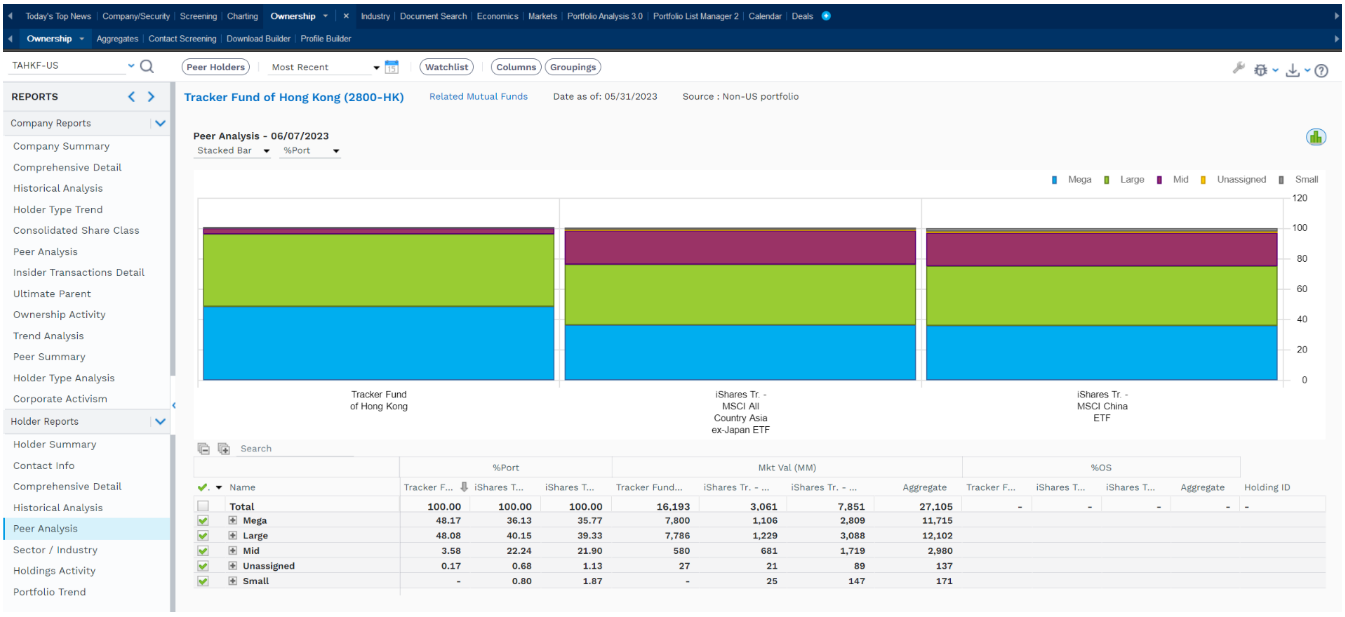

Name	%Port: Tracker F...	%Port: iShares T...	%Port: iShares T...	Mkt Val (MM): Tracker Fund...	Mkt Val (MM): iShares Tr. - ...	Mkt Val (MM): iShares Tr. - ...	Mkt Val (MM): Aggregate	%OS: Tracker F...	%OS: iShares T...	%OS: iShares T...	%OS: Aggregate	Holding ID
Total	100.00	100.00	100.00	16,193	3,061	7,851	27,105	-	-	-	-	-
Mega	48.17	36.13	35.77	7,800	1,106	2,809	11,715					
Large	48.08	40.15	39.33	7,786	1,229	3,088	12,102					
Mid	3.58	22.24	21.90	580	681	1,719	2,980					
Unassigned	0.17	0.68	1.13	27	21	89	137					
Small	-	0.80	1.87	-	25	147	171					

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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联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

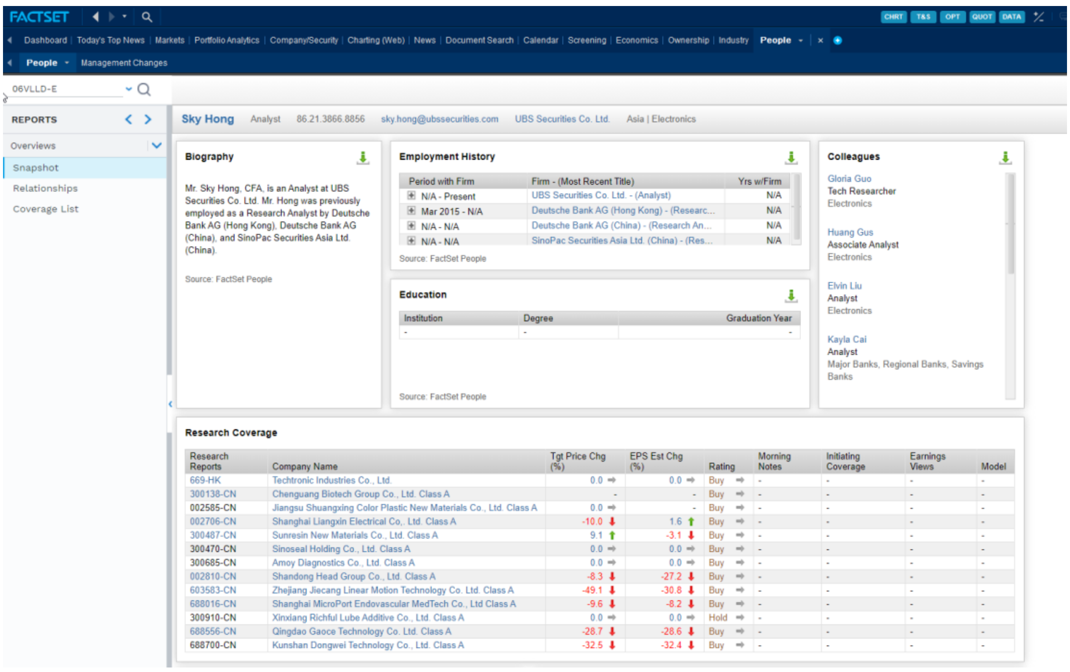
  内幕控股

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

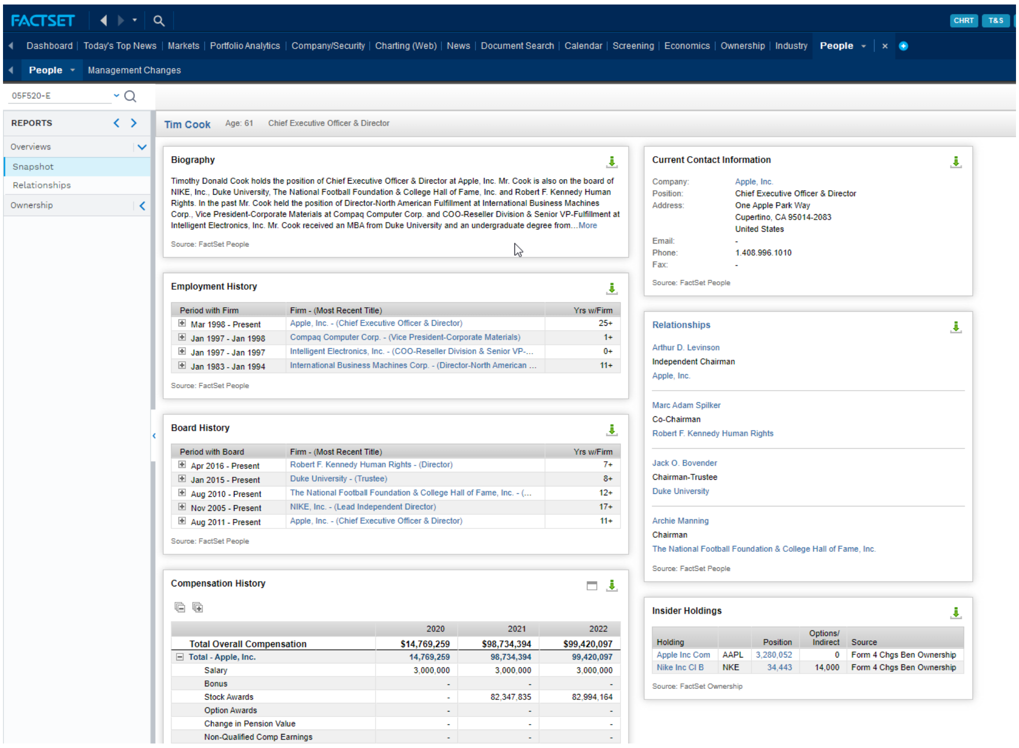
- **Portfolio Manager Holdings**
  The Portfolio Manager Snapshot report integrates Ownership fund data and provides direct links to the Ownership 3.0 application

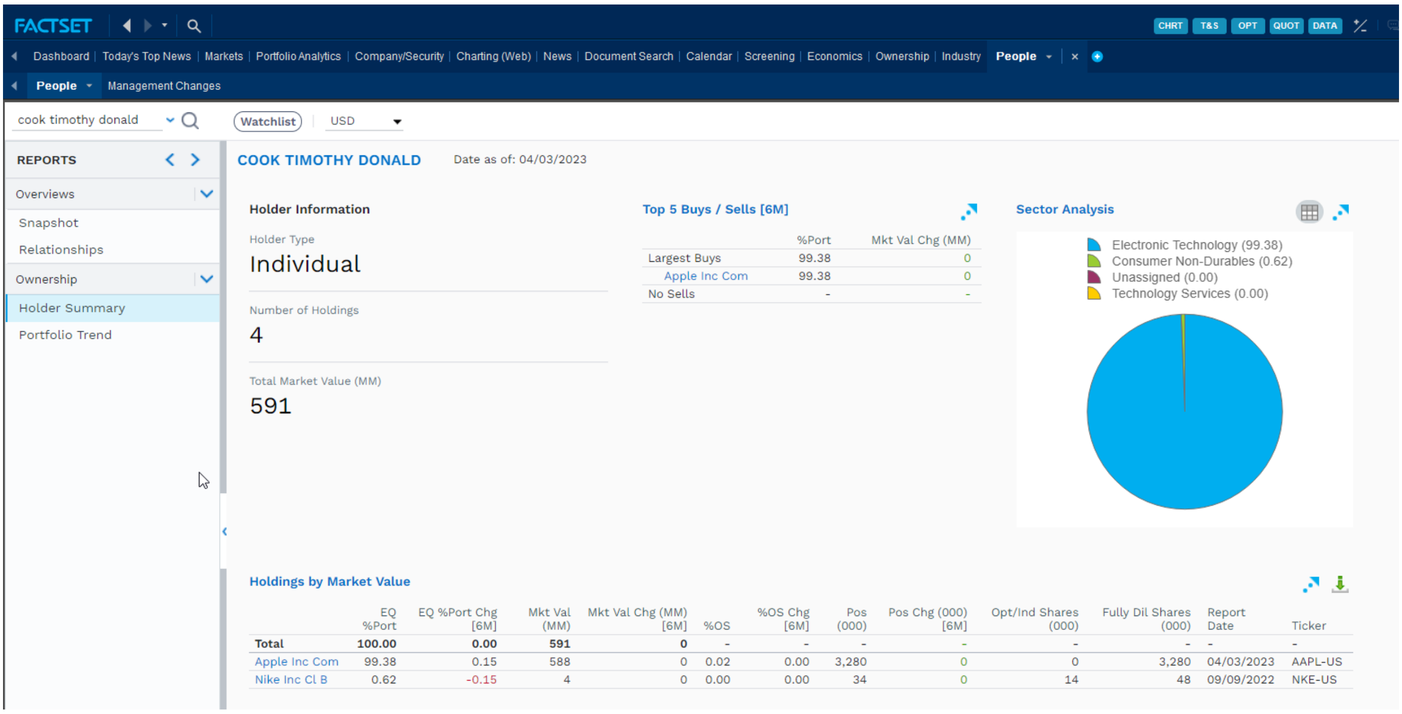
  投资组合经理控股

  *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**。*



FACTSET 〉SEE THE ADVANTAGE





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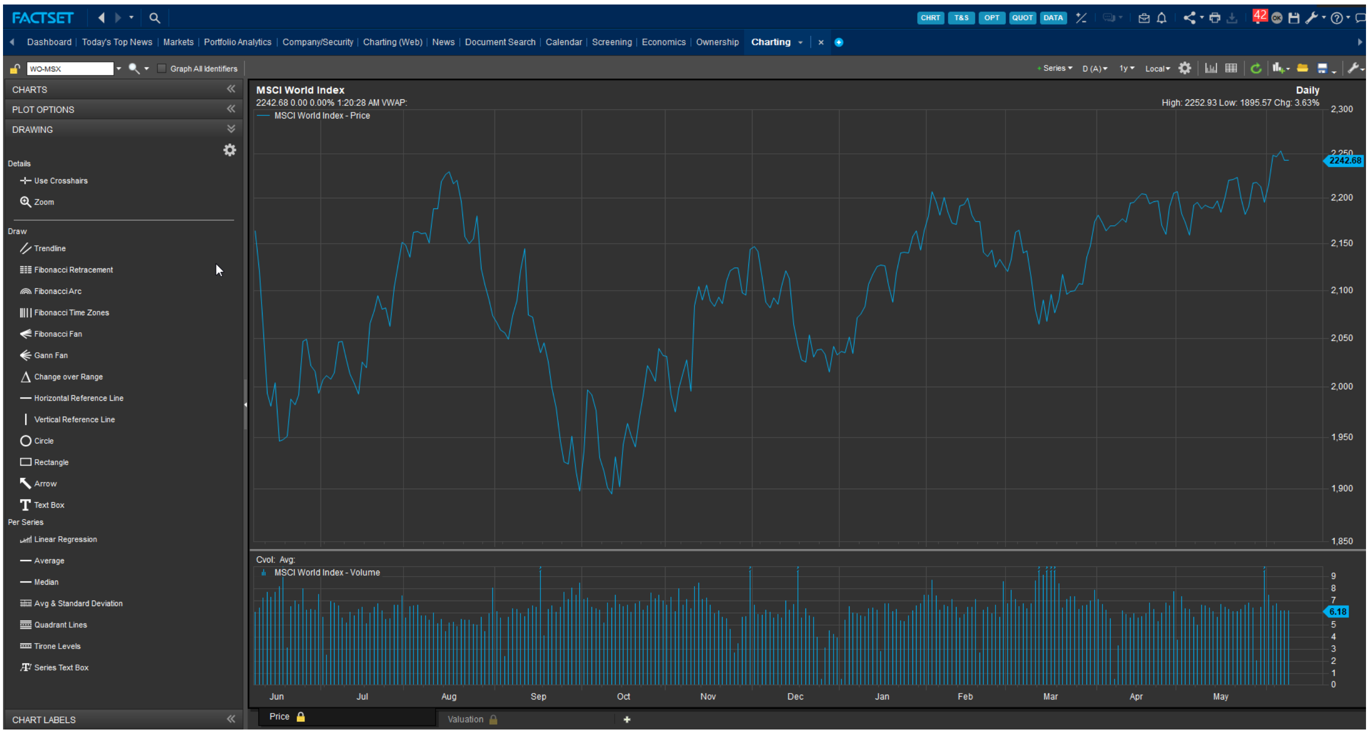
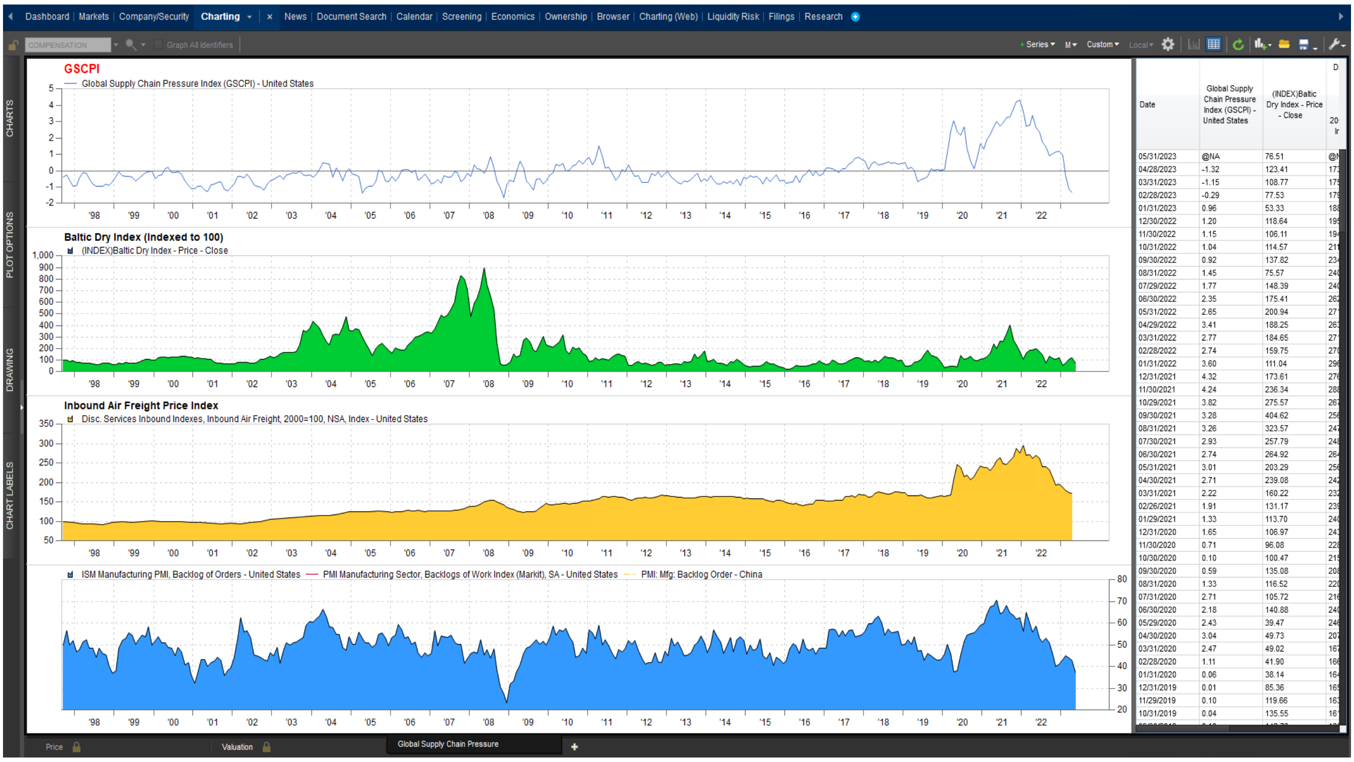
1.13 Interactive Charting - @IC

- 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式**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。



FACTSET 〉 SEE THE ADVANTAGE



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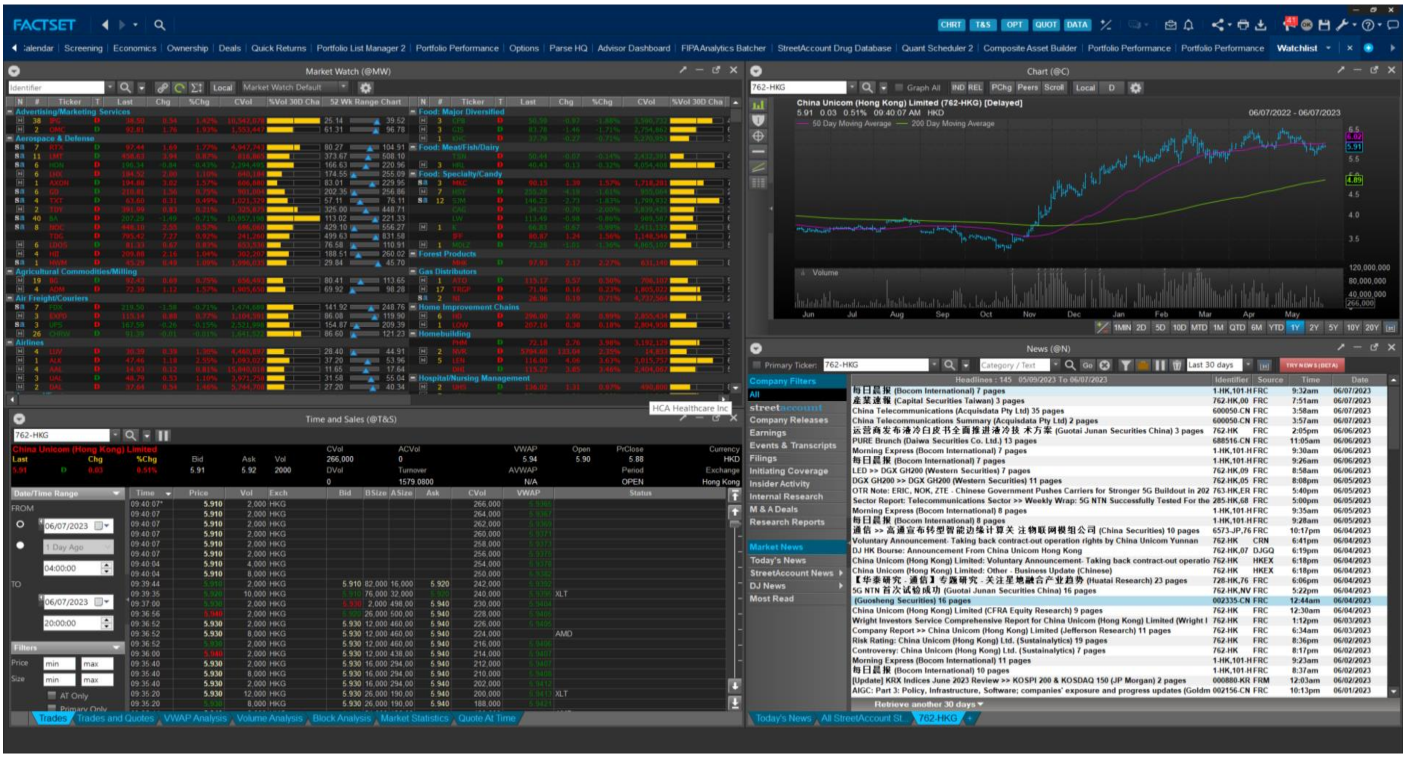
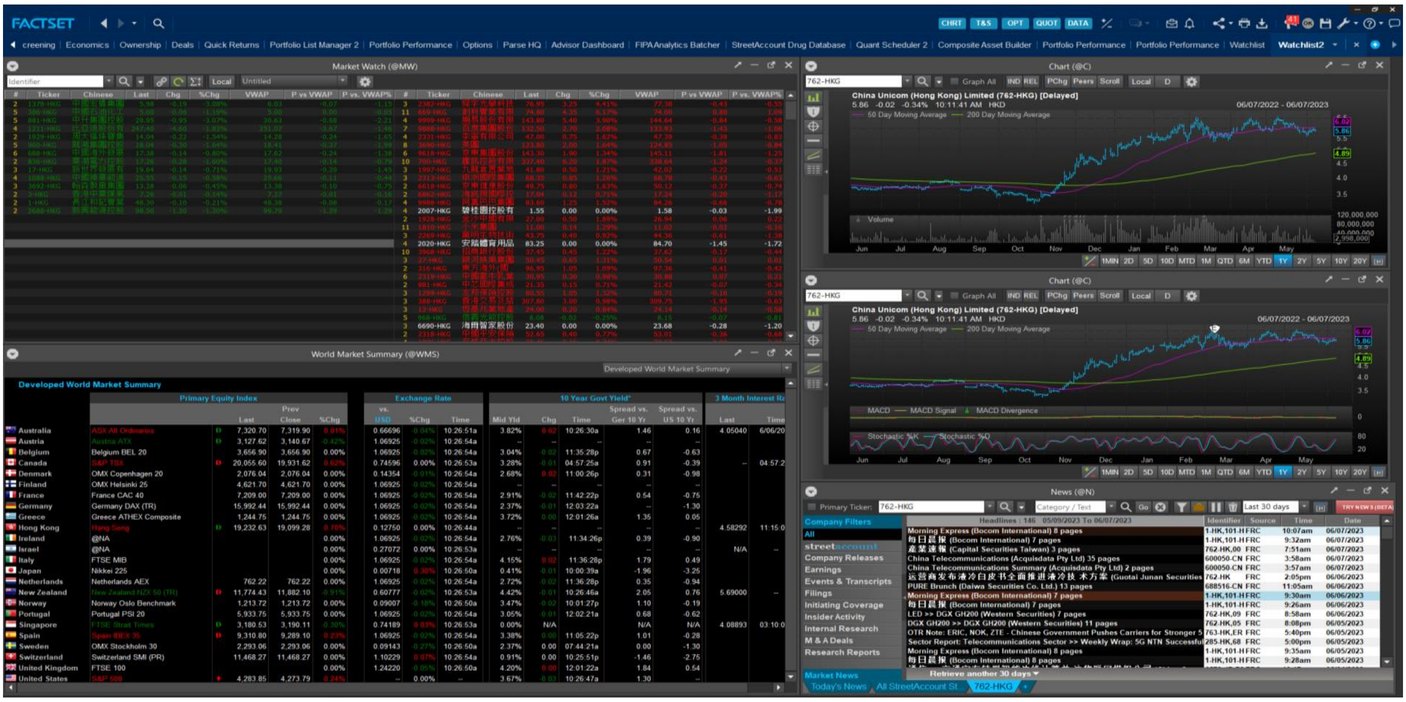
2 Portfolio Management (Monitoring Daily)

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.

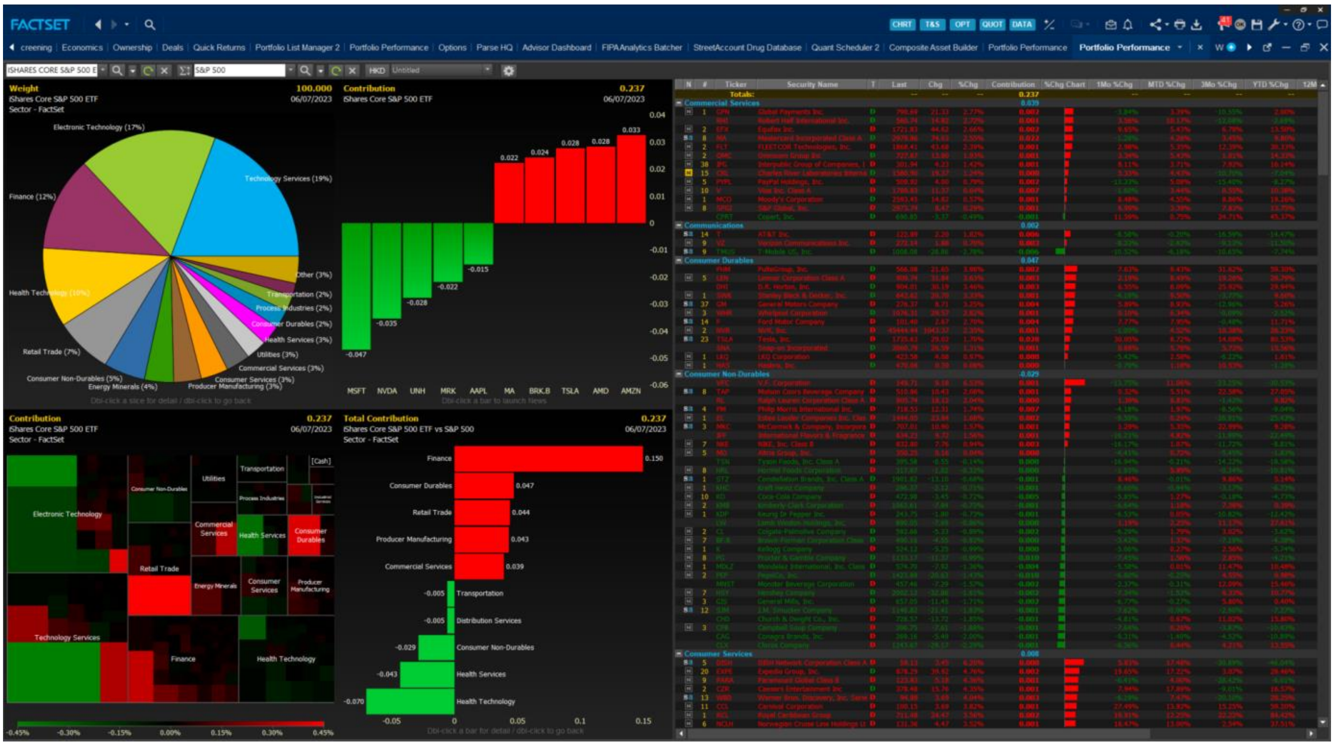




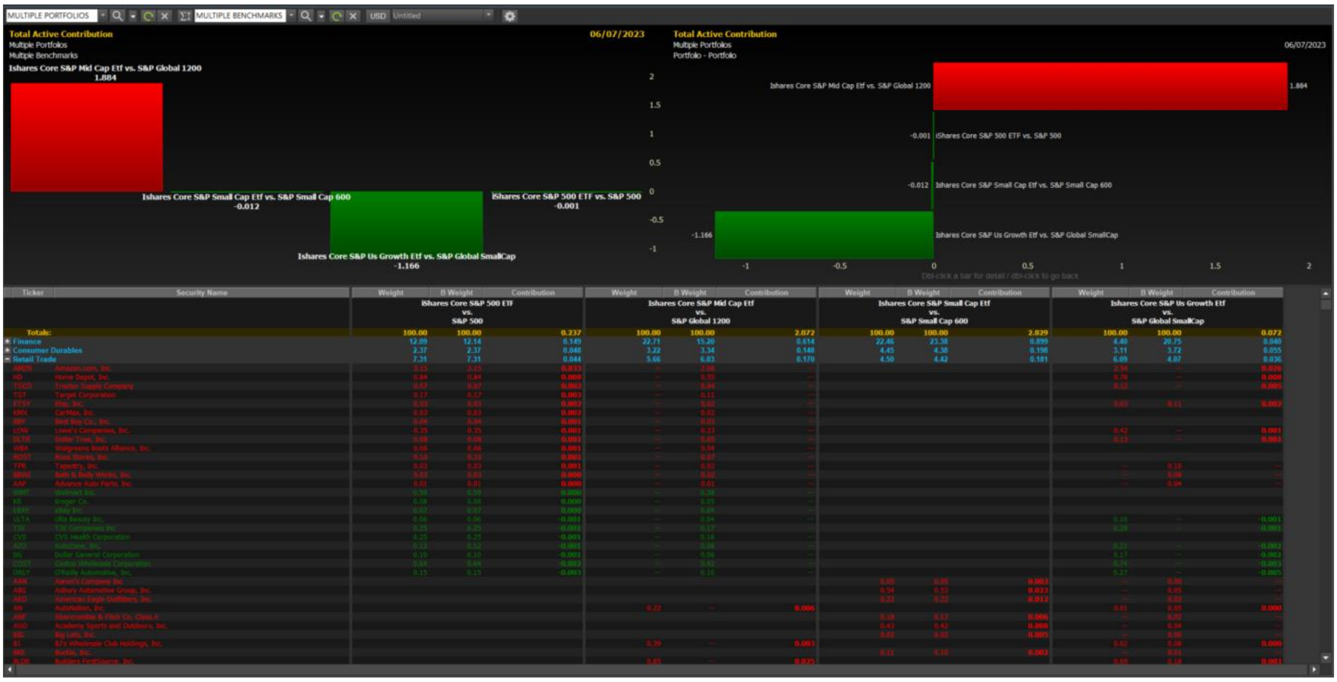
FACTSET SEE THE ADVANTAGE

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



FACTSET ❯ SEE THE ADVANTAGE



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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

- **S&P futures** up 0.3% in Wednesday morning trading after US equities came under pressure on Tuesday with all of the major indexes down over 1.5% and the Nasdaq off more than 2.5% and nearly 10% below its 19-Nov closing high. **Treasuries** weaker again with 10-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 real yields have been responsible 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**.
- Very quiet from a 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 **China to require large Internet companies to secure approval before they undertake investments or fundraisings.** IEA report said **global oil markets look tighter than previously thought** with little Omicron impact on demand.
- **~BAC-US~** EPS beat with IB and loans among bright spots, while it also said expenses would remain flattish 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 worse. **~ADS-US~** hit on news **~BJ-US~** to move its valuable credit-card partnership to **~COF-US~**. **~ASML-US~** boosted by strong Q4 orders and guidance for 20% revenue growth in 2022. **~F-US~** to book $8B+ gain from investment in ~RIVN-US~. **~JBHT-US~** earnings helped by price gains. **~TGNA-US~** reportedly near deal to be acquired by Apollo and Standard Global for $9B.

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 *NVIDIA Corp.*	01/25/2022	Unspecified	Manifest Conference		
NVDA-US *NVIDIA Corp.*	01/26/2022	Unspecified	Distributech 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 *Union Pacific Corp.*	01/20/2022	8:00 AM	Q4 2021 Earnings Release		
NFLX-US *Netflix, Inc.*	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 *Charter Communications, Inc. Class A*	572.16	3.31	0.58	44,841	DL
CMCSA-USA *Comcast Corporation Class A*	50.22	0.27	0.54	2,615,993	DL
TXN-USA *Texas Instruments Incorporated*	173.45	0.55	0.31	596,324	DL
DIS-USA *Walt Disney Company*	147.62	0.42	0.31	1,020,463	DL
BIIB-USA *Biogen Inc.*	225.91	0.52	0.24	537,349	DL
EXC-USA *Exelon Corporation*	56.98	0.10	0.18	263,861	DL
COST-USA *Costco Wholesale Corporation*	482.82	0.67	0.14	290,273	DL
BK-USA *Bank of New York Mellon Corporation*	59.92	0.08	0.14	298,939	DL
HD-USA *Home Depot, Inc.*	349.58	0.40	0.11	286,662	DL
MSFT-USA *Microsoft Corporation*	301.60	0.27	0.09	3,007,258	DL
TMUS-USA *T-Mobile US, Inc.*	104.06	0.07	0.07	538,368	DL
HON-USA *Honeywell International Inc.*	208.92	0.07	0.03	146,715	DL
MDLZ-USA *Mondelez International, Inc. Class A*	67.76	0.01	0.01	391,050	DL

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 *NIKE, Inc. Class B*	142.73	-1.75	-1.22	343,537	DL
EMR-USA *Emerson Electric Co.*	93.65	-1.03	-1.11	48,271	DL
F-USA *Ford Motor Company*	21.65	-0.23	-1.11	1,149,689	DL
NVDA-USA *NVIDIA Corporation*	241.50	-2.49	-1.07	1,395,169	DL
PFE-USA *Pfizer Inc.*	54.05	-0.49	-0.93	2,256,639	DL
TSLA-USA *Tesla Inc*	996.27	-7.90	-0.84	721,365	DL
WFC-USA *Wells Fargo & Company*	55.00	-0.44	-0.82	1,141,163	DL
AMZN-USA *Amazon.com, Inc.*	3,033.35	-22.86	-0.80	270,898	DL
PYPL-USA *PayPal Holdings, Inc.*	173.28	-1.29	-0.79	673,622	DL
GM-USA *General Motors Company*	54.65	-0.39	-0.73	445,990	DL
GOOGL-USA *Alphabet Inc. Class A*	2,666.15	-18.03	-0.69	84,554	DL
DD-USA *DuPont de Nemours, Inc.*	79.18	-0.47	-0.61	33,196	DL
COF-USA *Capital One Financial Corporation*	150.27	-0.88	-0.60	88,295	DL
NEE-USA *NextEra Energy, Inc.*	83.51	-0.49	-0.59	1,789,565	DL
WBA-USA *Walgreens Boots Alliance Inc*	53.18	-0.30	-0.57	188,992	DL
MDT-USA *Medtronic Plc*	106.11	-0.60	-0.57	128,838	DL
DHR-USA *Danaher Corporation*	282.96	-1.57	-0.56	287,084	DL
BA-USA *Boeing Company*	214.19	-1.14	-0.55	354,222	DL
C-USA *Citigroup Inc.*	64.46	-0.34	-0.54	868,742	DL
ORCL-USA *Oracle Corporation*	82.72	-0.42	-0.51	199,817	DL

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%

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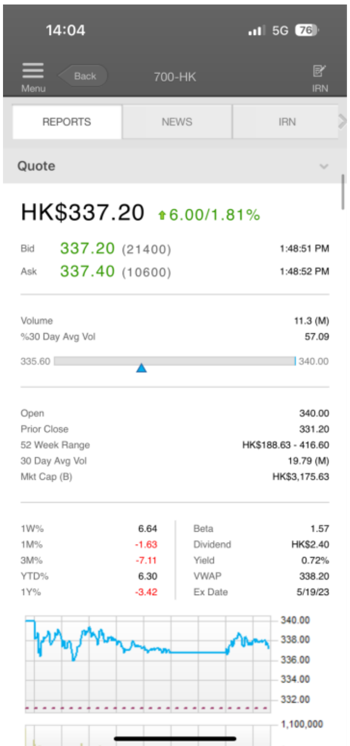
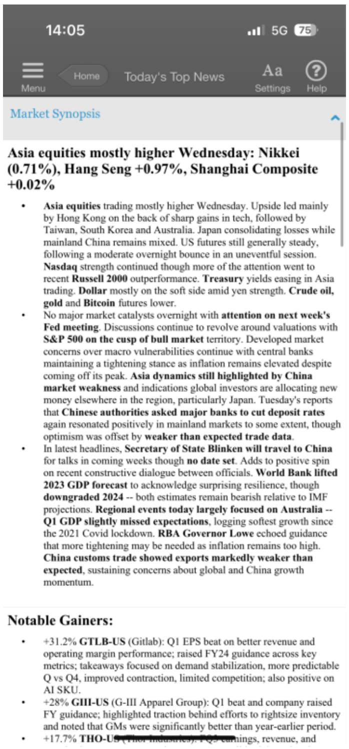
2.4 FactSet Mobile – App Store & Google Play Android

- **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





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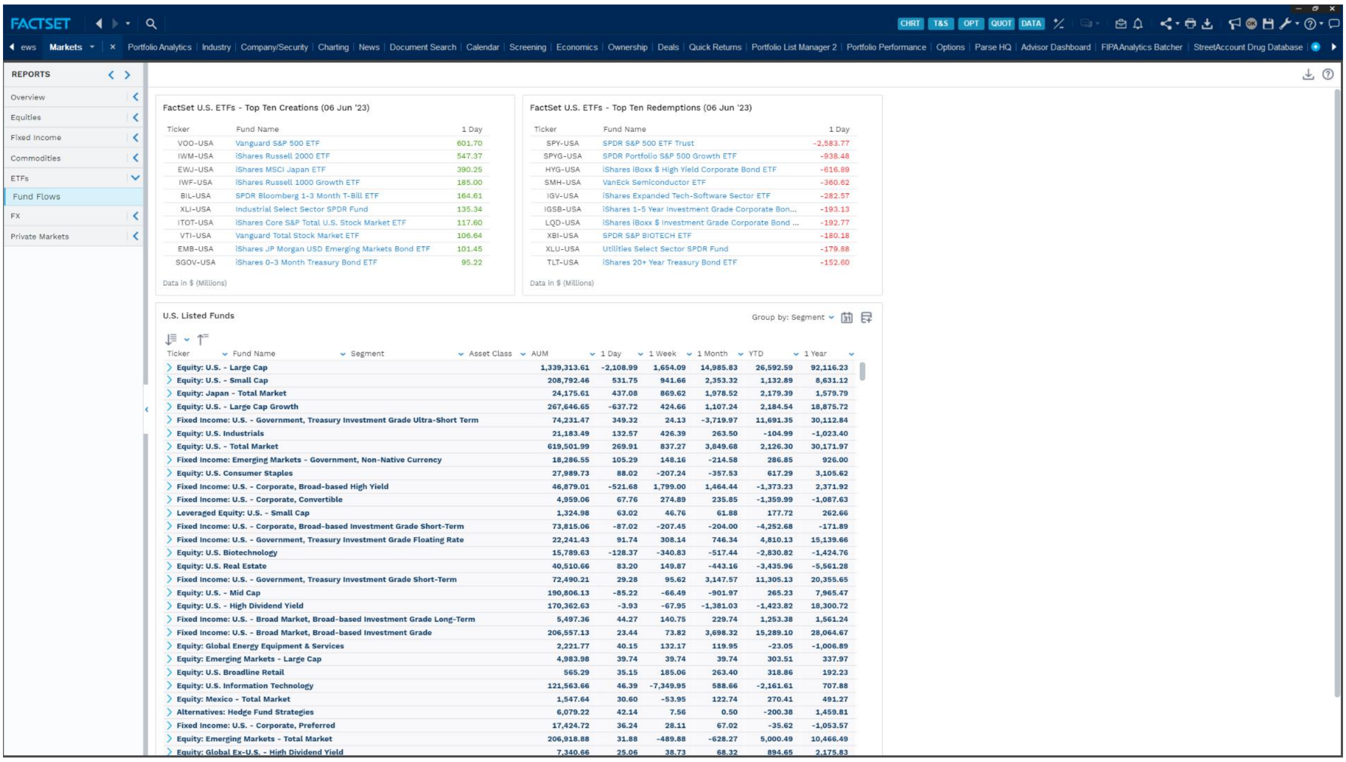
2.5 Market Analysis - Markets

- **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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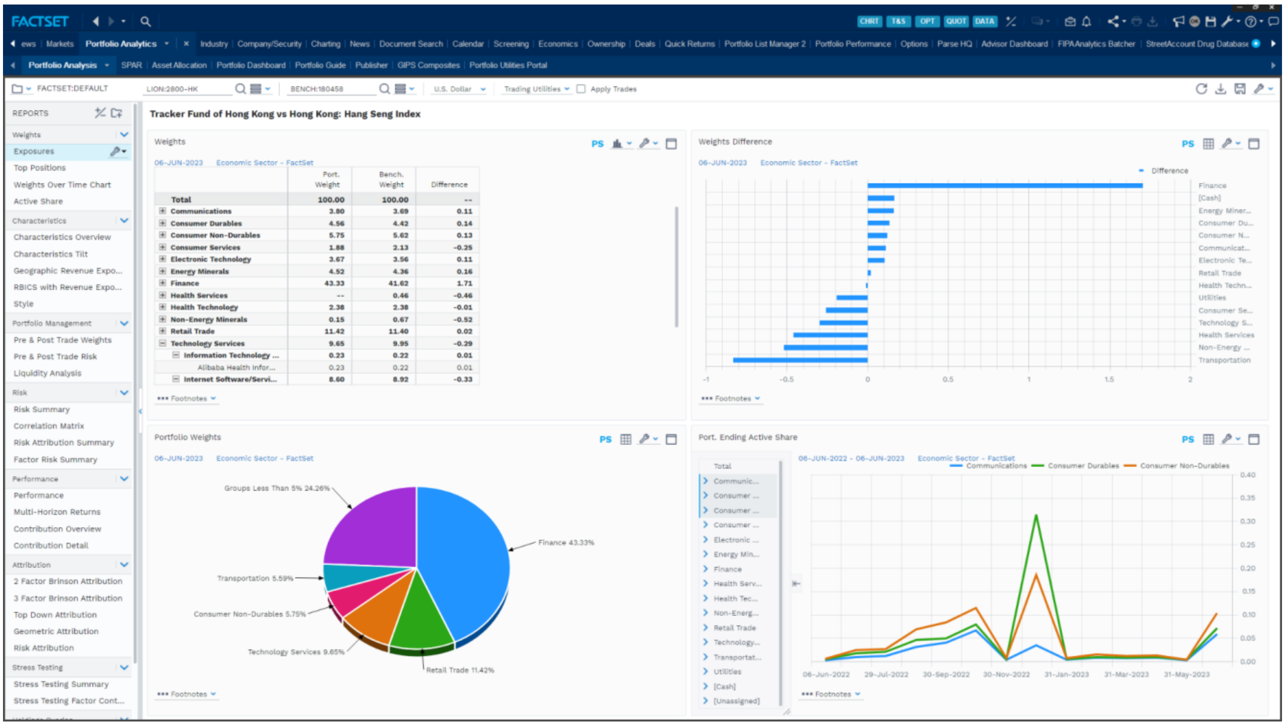
3 Portfolio Reporting & Analysis (Portfolio Analytics)

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



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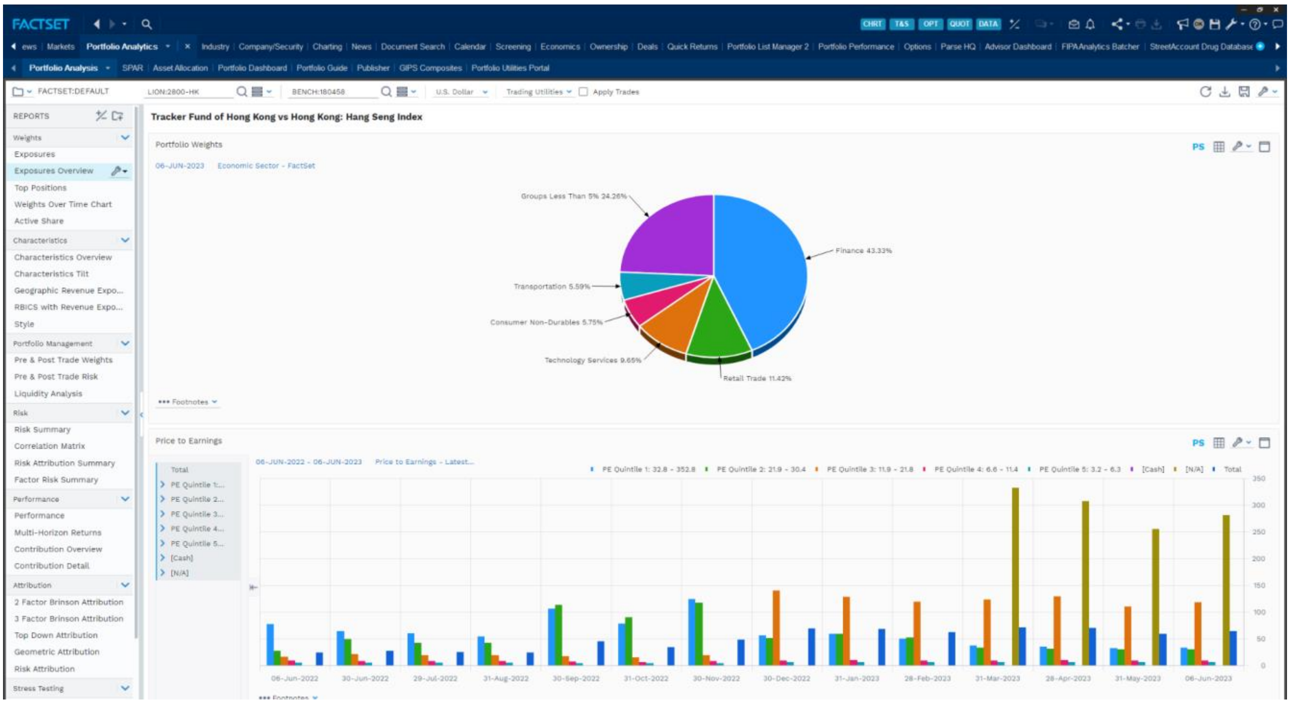
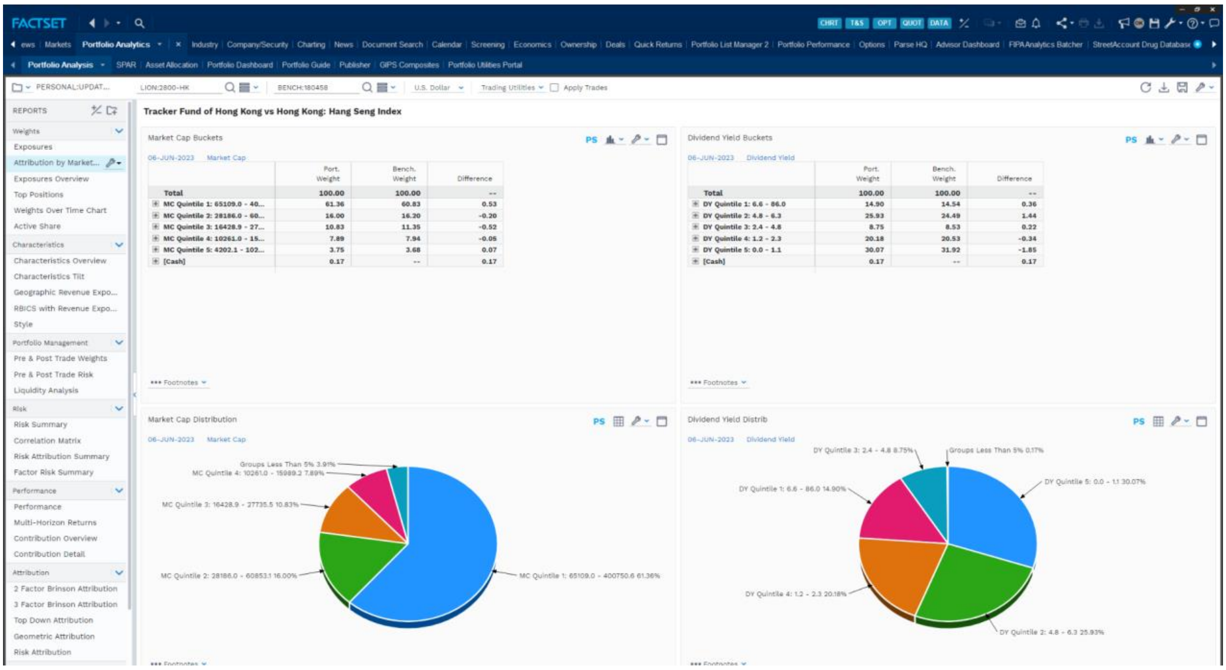
- Groupings and Charts can also be customized. Apart from Sector, we can also do Quintile in PE. As a growth fund, PE may be critical measurement, we can customize the buckets and check with the portfolio's exposure in various PE buckets.



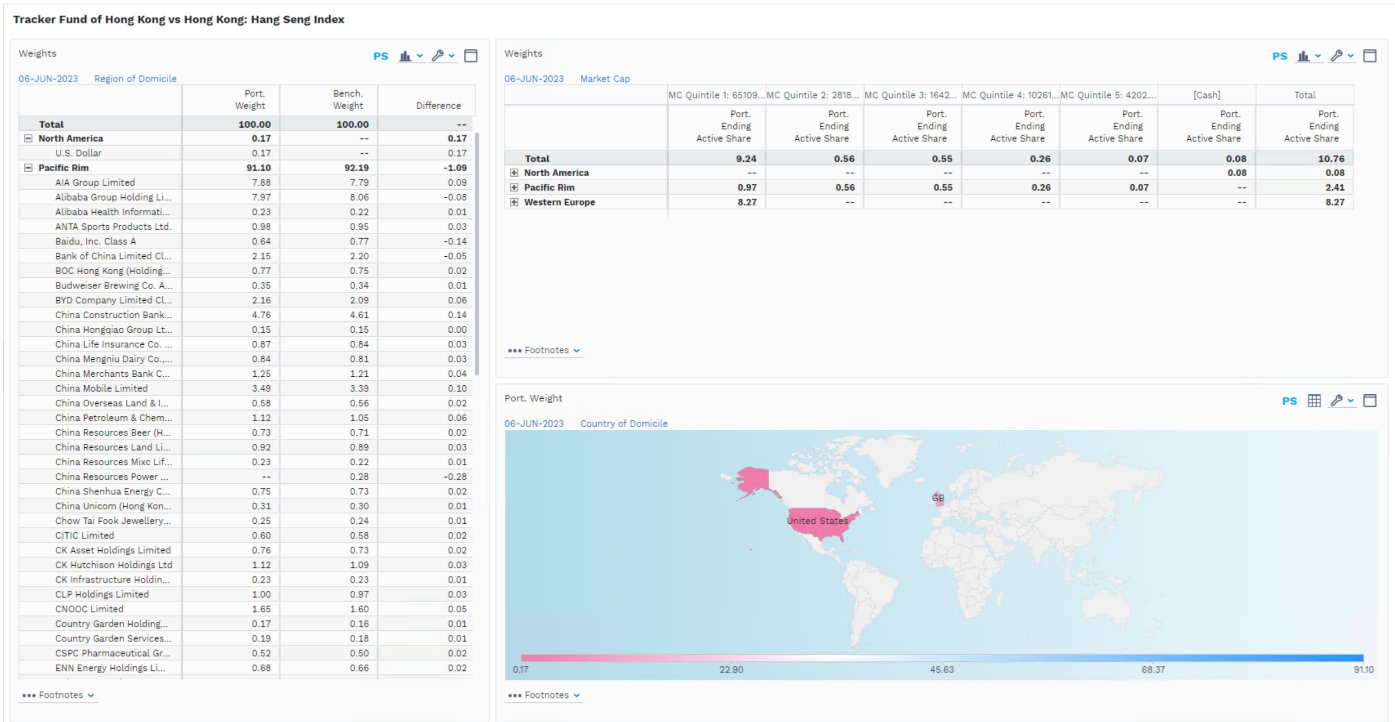
- Other customized formulas are also available like Market Cap, Dividend Yield, etc. For Fractiles, many other choices are also available like Quantile, Decile Percentile, N-tile, or even Custom



	Port. Weight	Bench. Weight	Difference
Total	100.00	100.00	--
MC Quintile 1: 65109.0 - 40...	61.36	60.83	0.53
MC Quintile 2: 28186.0 - 60...	16.00	16.20	-0.20
MC Quintile 3: 16428.9 - 27...	10.83	11.35	-0.52
MC Quintile 4: 10261.0 - 15...	7.89	7.94	-0.05
MC Quintile 5: 4202.1 - 102...	3.75	3.68	0.07
[Cash]	0.17	--	0.17

	Port. Weight	Bench. Weight	Difference
Total	100.00	100.00	--
DY Quintile 1: 6.6 - 86.0	14.90	14.54	0.36
DY Quintile 2: 4.8 - 6.3	25.93	24.49	1.44
DY Quintile 3: 2.4 - 4.8	8.75	8.53	0.22
DY Quintile 4: 1.2 - 2.3	20.18	20.53	-0.34
DY Quintile 5: 0.0 - 1.1	30.07	31.92	-1.85
[Cash]	0.17	--	0.17

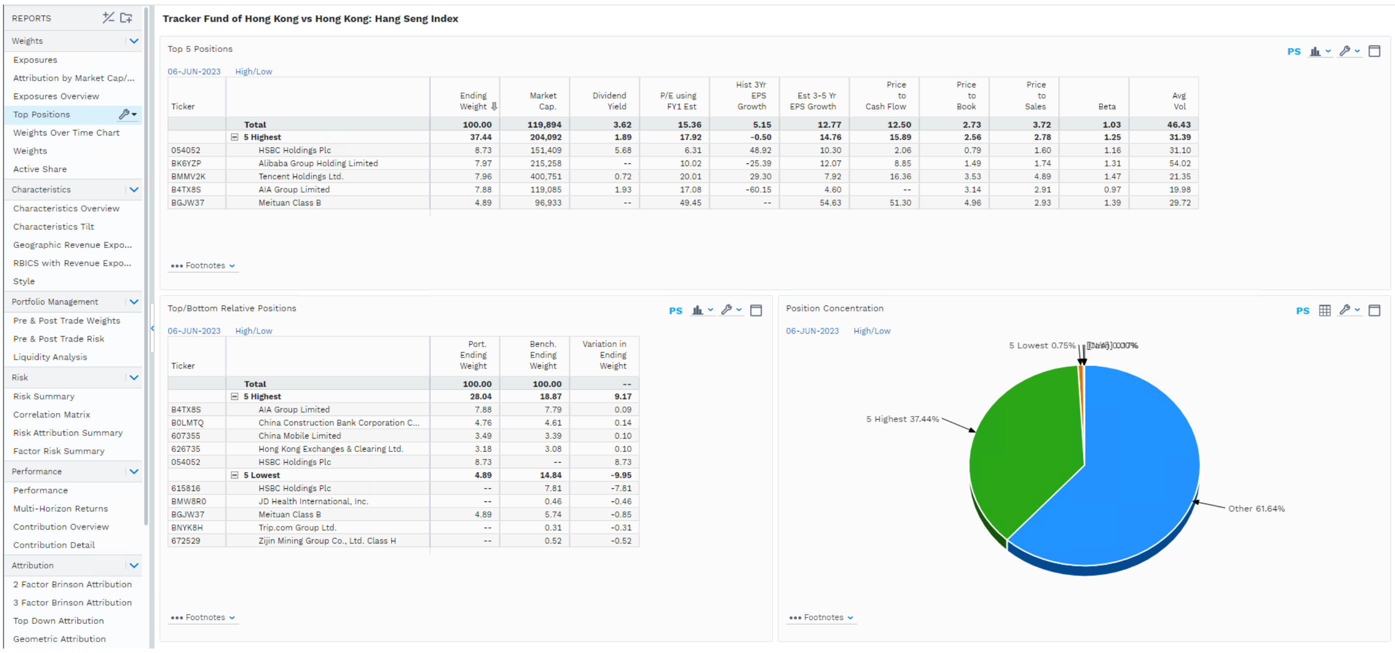
- Various Charts are available and easy to convert, above example is Geo Heat Map, it's quite useful for global portfolios



	Port. Weight	Bench. Weight	Difference
Total	100.00	100.00	--
North America	0.17	--	0.17
U.S. Dollar	0.17	--	0.17
Pacific Rim	91.10	92.19	-1.09
AIA Group Limited	7.88	7.79	0.09
Alibaba Group Holding Li...	7.97	8.06	-0.08
Alibaba Health Informati...	0.23	0.22	0.01
ANTA Sports Products Ltd.	0.98	0.95	0.03
Baidu, Inc. Class A	0.64	0.77	-0.14
Bank of China Limited Cl...	2.15	2.20	-0.05
BOC Hong Kong (Holding...	0.77	0.75	0.02
Budweiser Brewing Co. A...	0.35	0.34	0.01
BYD Company Limited Cl...	2.16	2.09	0.06
China Construction Bank...	4.76	4.61	0.14
China Hongqiao Group Lt...	0.15	0.15	0.00
China Life Insurance Co. ...	0.87	0.84	0.03
China Mengniu Dairy Co.,...	0.84	0.81	0.03
China Merchants Bank C...	1.25	1.21	0.04
China Mobile Limited	3.49	3.39	0.10
China Overseas Land & I...	0.58	0.56	0.02
China Petroleum & Chem...	1.12	1.05	0.06
China Resources Beer (H...	0.73	0.71	0.02
China Resources Land Li...	0.92	0.89	0.03
China Resources Mixc Lif...	0.23	0.22	0.01
China Resources Power ...	--	0.28	-0.28
China Shenhua Energy C...	0.75	0.73	0.02
China Unicom (Hong Kon...	0.31	0.30	0.01
Chow Tai Fook Jewellery...	0.25	0.24	0.01
CITIC Limited	0.60	0.58	0.02
CK Asset Holdings Limited	0.76	0.73	0.02
CK Hutchison Holdings Ltd	1.12	1.09	0.03
CK Infrastructure Holdin...	0.23	0.23	0.01
CLP Holdings Limited	1.00	0.97	0.03
CNOOC Limited	1.65	1.60	0.05
Country Garden Holding...	0.17	0.16	0.01
Country Garden Services...	0.19	0.18	0.01
CSPC Pharmaceutical Gr...	0.52	0.50	0.02
ENN Energy Holdings Li...	0.68	0.66	0.02

	MC Quintile 1: 65109...	MC Quintile 2: 2818...	MC Quintile 3: 1642...	MC Quintile 4: 10261...	MC Quintile 5: 4202...	[Cash]	Total
	Port. Ending Active Share	Port. Ending Active Share	Port. Ending Active Share	Port. Ending Active Share	Port. Ending Active Share	Port. Ending Active Share	Port. Ending Active Share
Total	9.24	0.56	0.55	0.26	0.07	0.08	10.76
North America	--	--	--	--	--	0.08	0.08
Pacific Rim	0.97	0.56	0.55	0.26	0.07	--	2.41
Western Europe	8.27	--	--	--	--	--	8.27

- 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.



Top 5 Positions

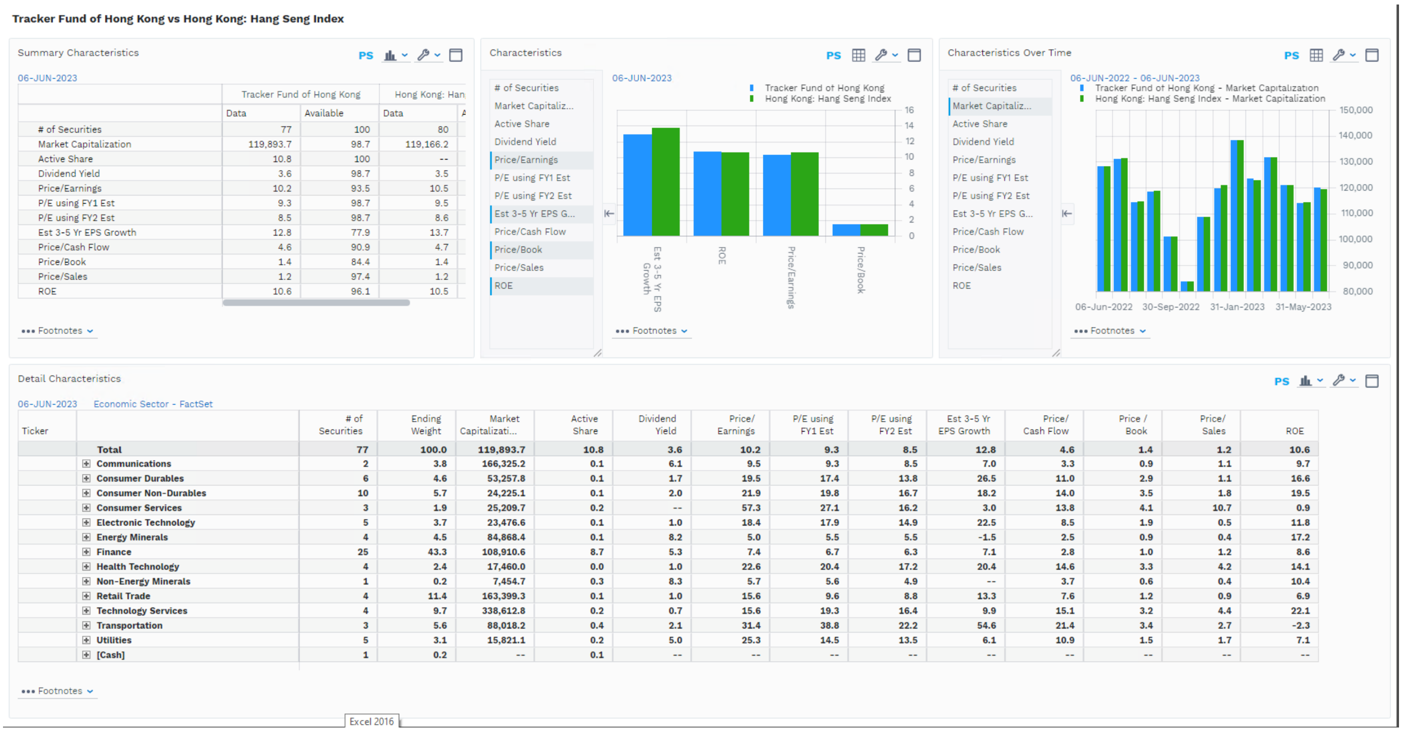
Ticker		Ending Weight	Market Cap.	Dividend Yield	P/E using FY1 Est	Hist 3Yr EPS Growth	Est 3-5 Yr EPS Growth	Price to Cash Flow	Price to Book	Price to Sales	Beta	Avg Vol
	Total	**100.00**	**119,894**	**3.62**	**15.36**	**5.15**	**12.77**	**12.50**	**2.73**	**3.72**	**1.03**	**46.43**
	5 Highest	**37.44**	**204,092**	**1.89**	**17.92**	**-0.50**	**14.76**	**15.89**	**2.56**	**2.78**	**1.25**	**31.39**
054052	HSBC Holdings Plc	8.73	151,409	5.68	6.31	48.92	10.30	2.06	0.79	1.60	1.16	31.10
BK6YZP	Alibaba Group Holding Limited	7.97	215,258	--	10.02	-25.39	12.07	8.85	1.49	1.74	1.31	54.02
BMMV2K	Tencent Holdings Ltd.	7.96	400,751	0.72	20.01	29.30	7.92	16.36	3.53	4.89	1.47	21.35
B4TX8S	AIA Group Limited	7.88	119,085	1.93	17.08	-60.15	4.60	--	3.14	2.91	0.97	19.98
BGJW37	Meituan Class B	4.89	96,933	--	49.45	--	54.63	51.30	4.96	2.93	1.39	29.72

Top/Bottom Relative Positions

Ticker		Port. Ending Weight	Bench. Ending Weight	Variation in Ending Weight
	Total	**100.00**	**100.00**	**--**
	5 Highest	**28.04**	**18.87**	**9.17**
B4TX8S	AIA Group Limited	7.88	7.79	0.09
B0LMTQ	China Construction Bank Corporation C...	4.76	4.61	0.14
607355	China Mobile Limited	3.49	3.39	0.10
626735	Hong Kong Exchanges & Clearing Ltd.	3.18	3.08	0.10
054052	HSBC Holdings Plc	8.73	--	8.73
	5 Lowest	**4.89**	**14.84**	**-9.95**
615816	HSBC Holdings Plc	--	7.81	-7.81
BMW8R0	JD Health International, Inc.	--	0.46	-0.46
BGJW37	Meituan Class B	4.89	5.74	-0.85
BNYK8H	Trip.com Group Ltd.	--	0.31	-0.31
672529	Zijin Mining Group Co., Ltd. Class H	--	0.52	-0.52

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

Summary Characteristics

06-JUN-2023

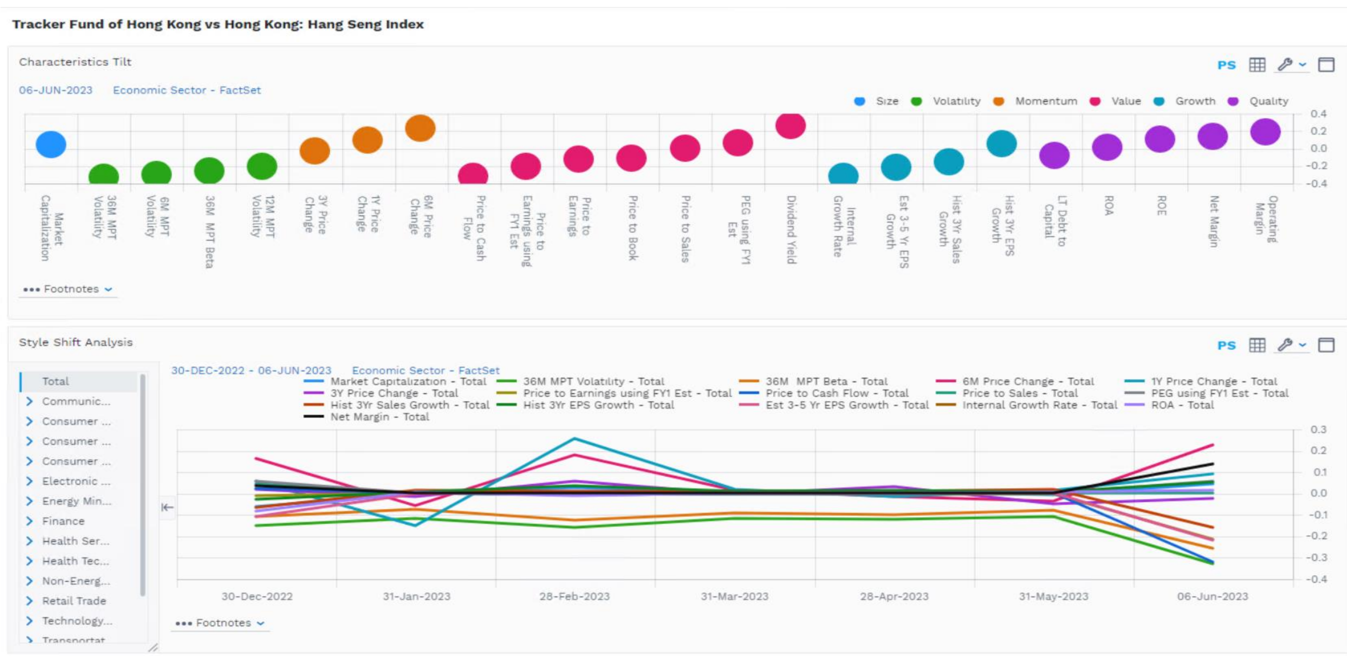
	Tracker Fund of Hong Kong		Hong Kong: Han
	Data	Available	Data
# of Securities	77	100	80
Market Capitalization	119,893.7	98.7	119,166.2
Active Share	10.8	100	--
Dividend Yield	3.6	98.7	3.5
Price/Earnings	10.2	93.5	10.5
P/E using FY1 Est	9.3	98.7	9.5
P/E using FY2 Est	8.5	98.7	8.6
Est 3-5 Yr EPS Growth	12.8	77.9	13.7
Price/Cash Flow	4.6	90.9	4.7
Price/Book	1.4	84.4	1.4
Price/Sales	1.2	97.4	1.2
ROE	10.6	96.1	10.5

Detail Characteristics

06-JUN-2023 Economic Sector - FactSet

Ticker		# of Securities	Ending Weight	Market Capitalizati...	Active Share	Dividend Yield	Price/ Earnings	P/E using FY1 Est	P/E using FY2 Est	Est 3-5 Yr EPS Growth	Price/ Cash Flow	Price / Book	Price/ Sales	ROE
	Total	77	100.0	119,893.7	10.8	3.6	10.2	9.3	8.5	12.8	4.6	1.4	1.2	10.6
	Communications	2	3.8	166,325.2	0.1	6.1	9.5	9.3	8.5	7.0	3.3	0.9	1.1	9.7
	Consumer Durables	6	4.6	53,257.8	0.1	1.7	19.5	17.4	13.8	26.5	11.0	2.9	1.1	16.6
	Consumer Non-Durables	10	5.7	24,225.1	0.1	2.0	21.9	19.8	16.7	18.2	14.0	3.5	1.8	19.5
	Consumer Services	3	1.9	25,209.7	0.2	--	57.3	27.1	16.2	3.0	13.8	4.1	10.7	0.9
	Electronic Technology	5	3.7	23,476.6	0.1	1.0	18.4	17.9	14.9	22.5	8.5	1.9	0.5	11.8
	Energy Minerals	4	4.5	84,868.4	0.1	8.2	5.0	5.5	5.5	-1.5	2.5	0.9	0.4	17.2
	Finance	25	43.3	108,910.6	8.7	5.3	7.4	6.7	6.3	7.1	2.8	1.0	1.2	8.6
	Health Technology	4	2.4	17,460.0	0.0	1.0	22.6	20.4	17.2	20.4	14.6	3.3	4.2	14.1
	Non-Energy Minerals	1	0.2	7,454.7	0.3	8.3	5.7	5.6	4.9	--	3.7	0.6	0.4	10.4
	Retail Trade	4	11.4	163,399.3	0.1	1.0	15.6	9.6	8.8	13.3	7.6	1.2	0.9	6.9
	Technology Services	4	9.7	338,612.8	0.2	0.7	15.6	19.3	16.4	9.9	15.1	3.2	4.4	22.1
	Transportation	3	5.6	88,018.2	0.4	2.1	31.4	38.8	22.2	54.6	21.4	3.4	2.7	-2.3
	Utilities	5	3.1	15,821.1	0.2	5.0	25.3	14.5	13.5	6.1	10.9	1.5	1.7	7.1
	[Cash]	1	0.2	--	0.1	--	--	--	--	--	--	--	--	--

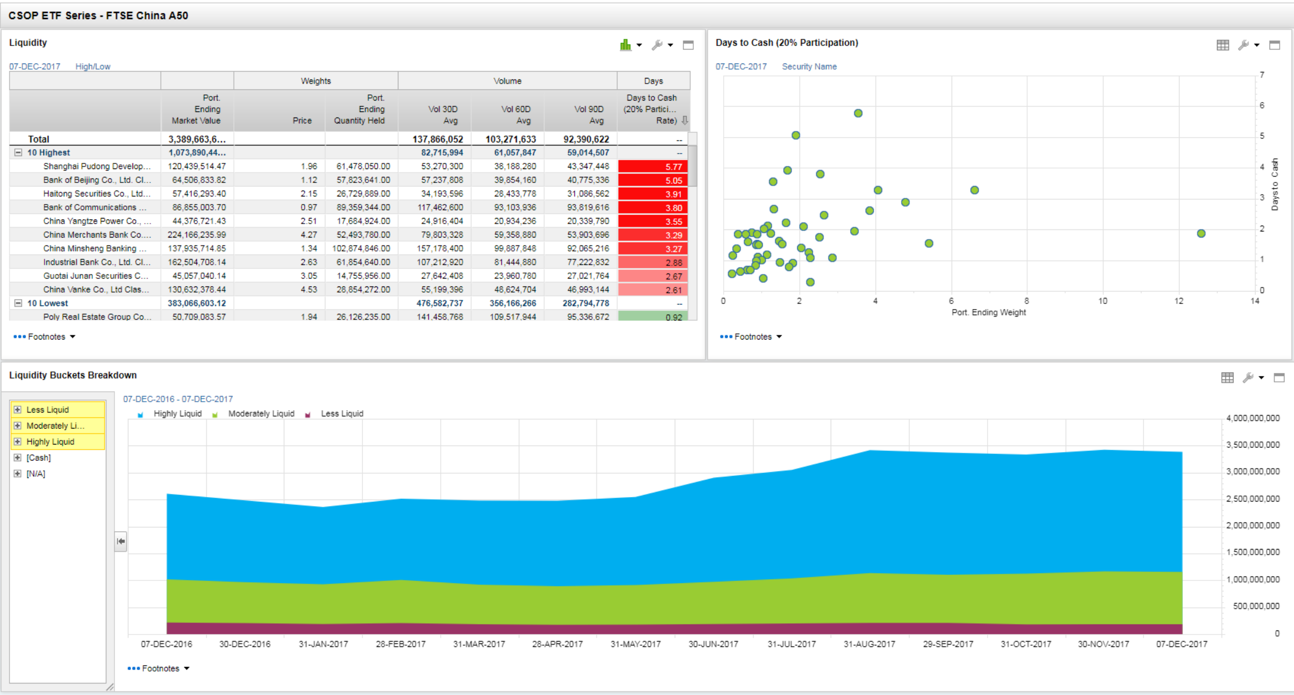
- Characteristic Tilt uses T-test to compare the portfolio's characteristic items with benchmark and group it by style, like Size, Growth, Quality, etc. It provides you a clear picture explaining whether the portfolio is aligning with benchmark. (Outside or Inside +2). What this report is doing, is determining 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



FACTSET 〉 SEE THE ADVANTAGE

3.3 Liquidity Analysis - @PA3

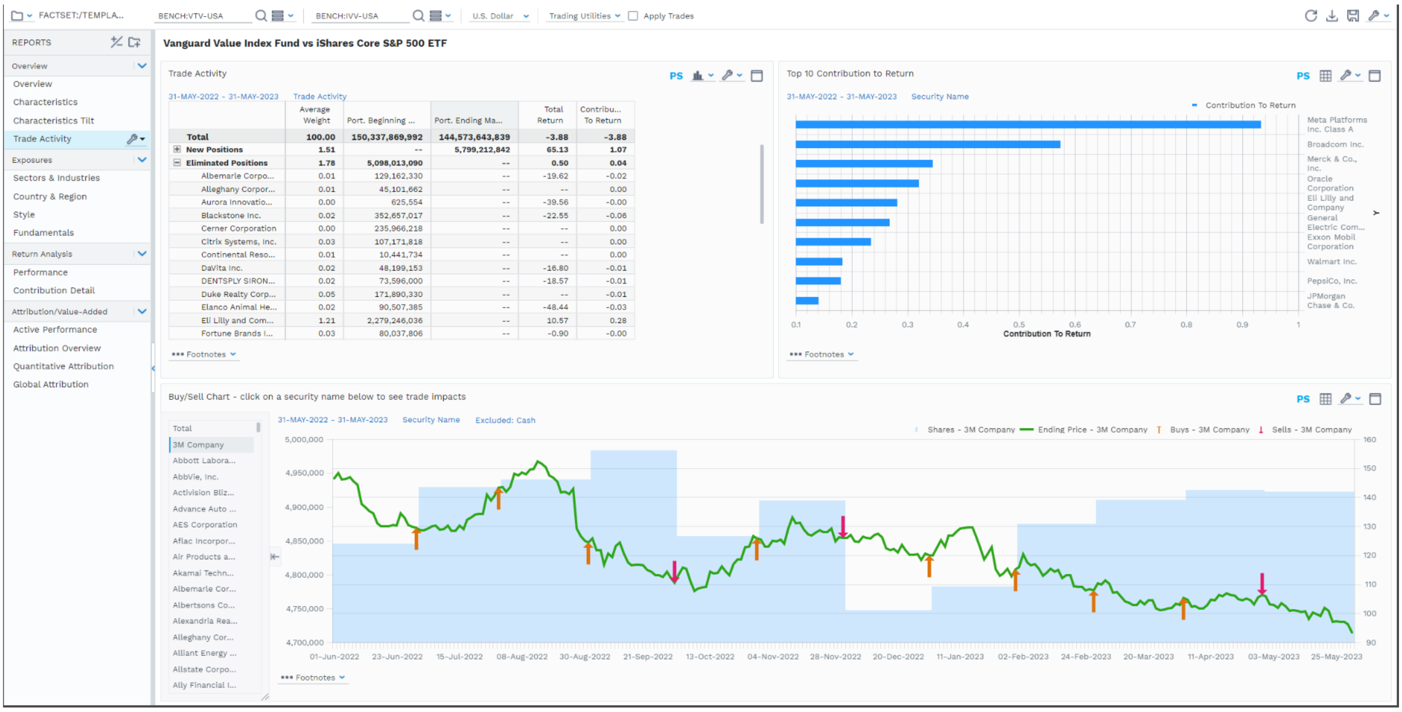
- Use Days to Cash to monitor the liquidity of portfolio. Days to Cash means how many days you need to liquidate all the holdings of one security with a certain participation rate, for example 20%. It means Max Trade of the Day is selling 20% of 30D Average Daily Trading Volume in order to avoid causing 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



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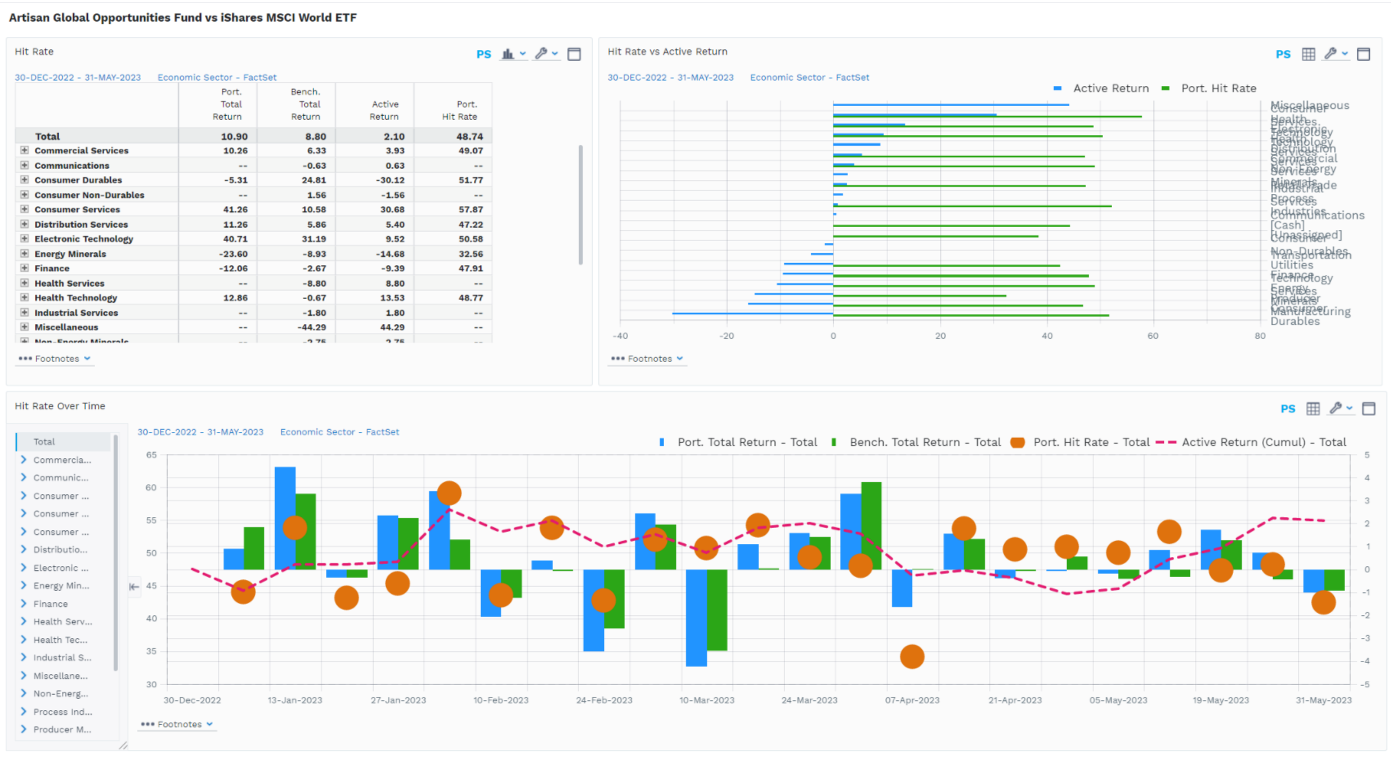
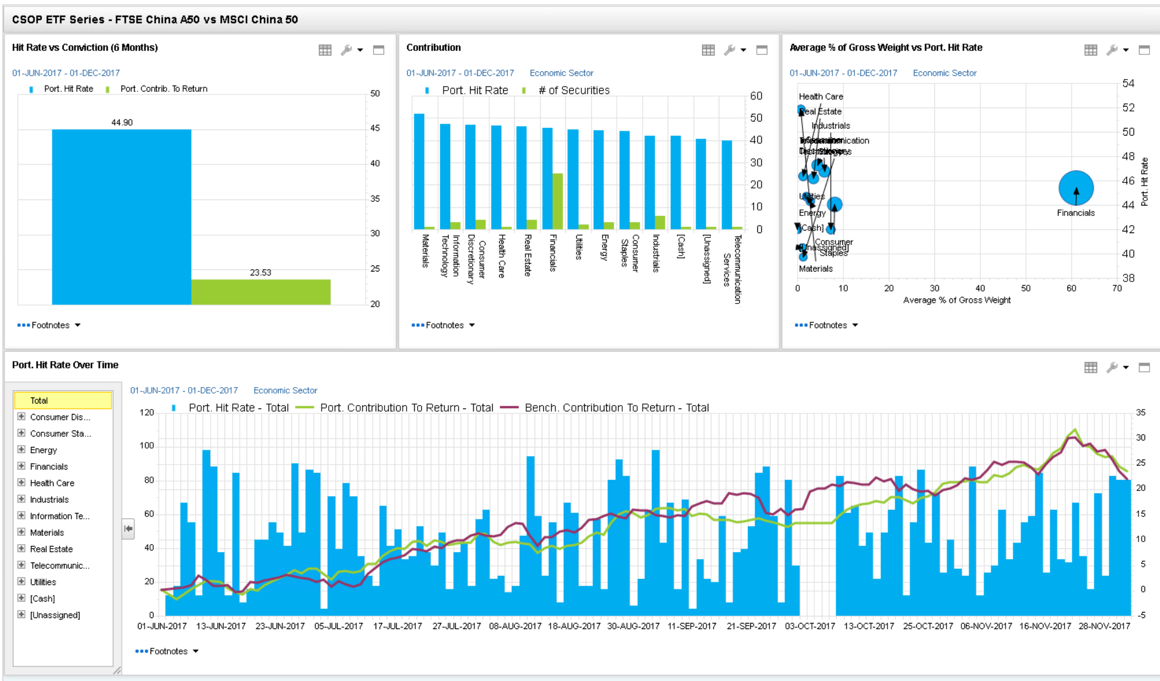
3.5 Hit Rate Analysis - @PA3

- 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



- 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.



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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

Decision Analysis - Sector

05-JUN-2020 - 07-JUN-2023 GICS Sector

	Base Portfolio				Benchmark			Passive Wtd Port			Passive Purch Port 12 Month Holding ...			Excess Return 12 Month Holding Period		
	Average Holding Period (M)	Port. Avg Weight	Port. Total Return	Port. Contrib. To Ret...	Bench. Avg Weight	Bench. Total Return	Bench. Contrib. To Ret...	Avg Weight	Total Return	Contrib. To Ret...	Avg Weight	Total Return	Contrib. To Ret...	Positio... Decision	Purcha... Decision	Selling Decision
Total		100.00	-15.39	-15.39	100.00	-15.99	-15.99	--	--	--	--	--	--	0.04	--	--
⊞ Communication Services		12.29	-3.92	1.03	12.31	-5.98	0.47	--	--	--	--	--	--	2.21	--	--
⊞ Consumer Discretionary		19.08	-49.21	-14.91	19.89	-46.31	-14.72	--	--	--	--	--	--	-11.24	--	--
⊞ Consumer Staples		2.72	-13.16	-0.49	2.77	-11.59	-0.46	--	--	--	--	--	--	0.10	--	--
⊞ Energy		3.15	82.45	1.37	3.15	78.84	1.37	--	--	--	--	--	--	2.13	--	--

••• Footnotes

Decision Analysis - Country

05-JUN-2020 - 07-JUN-2023 Country of Domicile

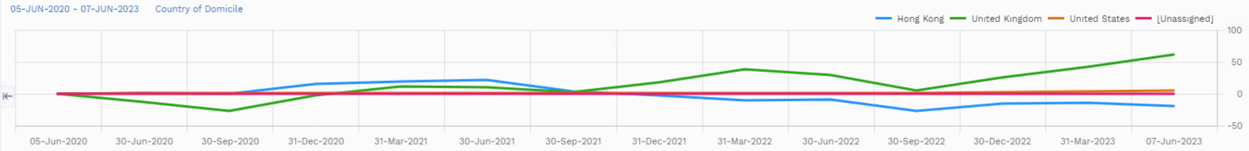
	Base Portfolio				Benchmark			Passive Wtd Port			Passive Purch Port 12 Month Holding ...			Excess Return 12 Month Holding Period		
	Average Holding Period (M)	Port. Avg Weight	Port. Total Return	Port. Contrib. To Ret...	Bench. Avg Weight	Bench. Total Return	Bench. Contrib. To Ret...	Avg Weight	Total Return	Contrib. To Ret...	Avg Weight	Total Return	Contrib. To Ret...	Positio... Decision	Purcha... Decision	Selling Decision
Total		100.00	-15.39	-15.39	100.00	-15.99	-15.99	--	--	--	--	--	--	0.04	--	--
⊞ Hong Kong		91.01	-20.06	-18.78	91.99	-20.63	-19.05	--	--	--	--	--	--	-4.46	--	--
⊞ United Kingdom		8.05	61.48	3.34	8.01	64.65	3.06	--	--	--	--	--	--	4.44	--	--
⊞ United States		0.92	4.22	0.04	--	--	--	--	--	--	--	--	--	0.08	--	--
⊞ [Unassigned]		0.01	--	--	--	--	--	--	--	--	--	--	--	-0.01	--	--

••• Footnotes

Port. Total Return

- Total
- Hong Kong
- United Kingd...
- United States
- [Unassigned]

05-JUN-2020 - 07-JUN-2023 Country of Domicile



••• Footnotes

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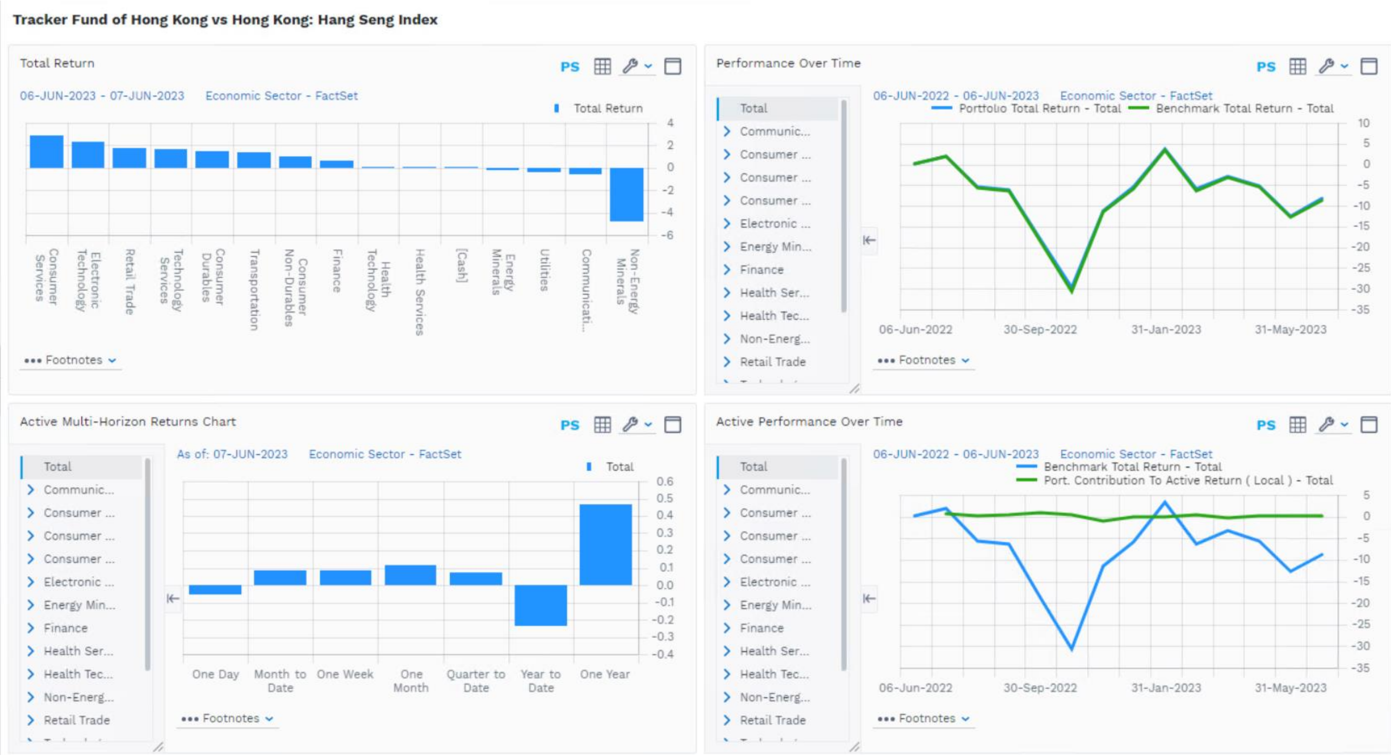
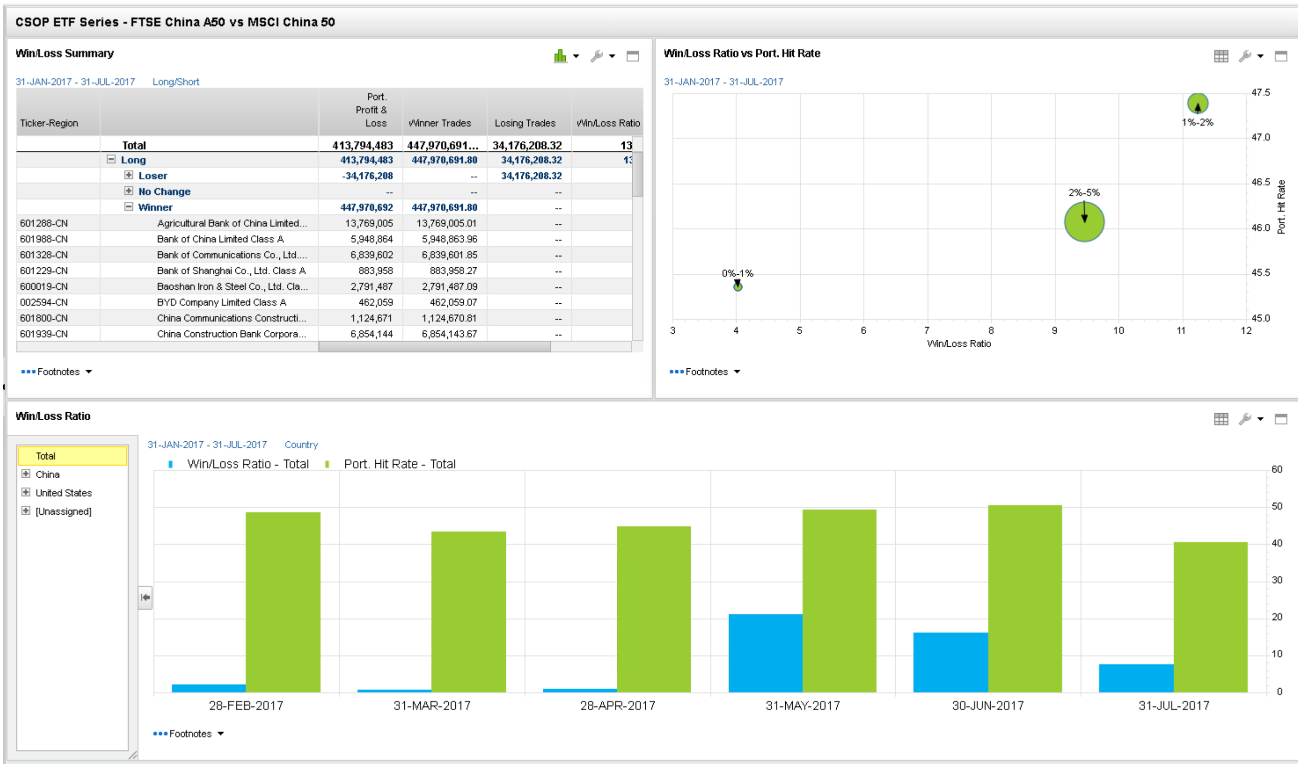
3.7 Performance Report - @PA3

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



- 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



Ticker-Region		Port. Profit & Loss	Winner Trades	Losing Trades	Win/Loss Ratio
	Total	413,794,483	447,970,691...	34,176,208.32	13
	Long	413,794,483	447,970,691.80	34,176,208.32	13
	Loser	-34,176,208	--	34,176,208.32	
	No Change	--	--	--	
	Winner	447,970,692	447,970,691.80	--	
601288-CN	Agricultural Bank of China Limited...	13,769,005	13,769,005.01	--	
601988-CN	Bank of China Limited Class A	5,948,864	5,948,863.96	--	
601328-CN	Bank of Communications Co., Ltd....	6,839,602	6,839,601.85	--	
601229-CN	Bank of Shanghai Co., Ltd. Class A	883,958	883,958.27	--	
600019-CN	Baoshan Iron & Steel Co., Ltd. Cla...	2,791,487	2,791,487.09	--	
002594-CN	BYD Company Limited Class A	462,059	462,059.07	--	
601800-CN	China Communications Constructi...	1,124,671	1,124,670.81	--	
601939-CN	China Construction Bank Corpora...	6,854,144	6,854,143.67	--	

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

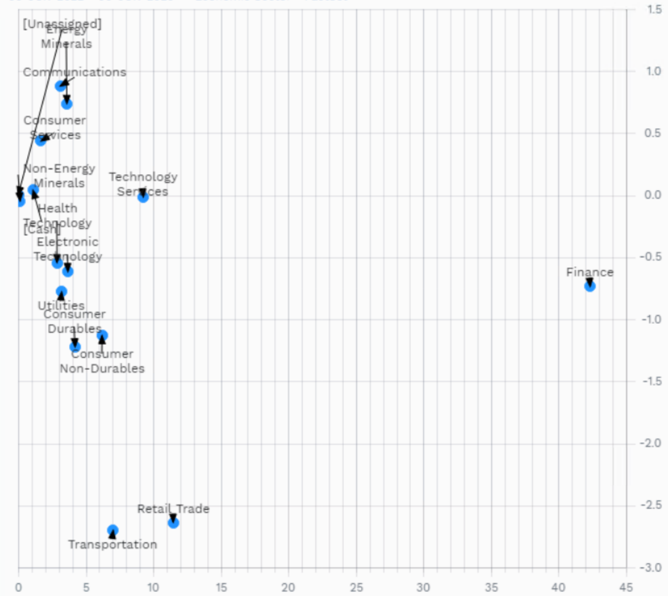
06-JUN-2022 - 06-JUN-2023 High/Low

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
B5B23W	Sands China Ltd.	0.53	1.99	3.38
629181	China Petroleum & Chemical Corporatio...	0.85	0.48	0.65
B01FLR	Ping An Insurance (Group) Company of ...	2.63	6.20	6.66
622657	PetroChina Company Limited Class H	0.71	0.53	0.70
B00G0S	CNOOC Limited	1.59	1.56	1.56
B4TX8S	AIA Group Limited	7.95	10.50	10.14
B15456	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**		
BGJW37	Meituan Class B	6.26	25.25	15.53
BK6YZP	Alibaba Group Holding Limited	7.51	12.36	10.50
BKPQZT	JD.com, Inc. Class A	2.67	29.55	18.03
BL6B9P	Wuxi Biologics (Cayman) Inc.	1.74	8.02	5.53
653665	BYD Company Limited Class H	1.80	38.32	32.13
B0LMTQ	China Construction Bank Corporation C...	4.53	0.74	0.65
B01JCK	Li Ning Company Limited	1.25	8.07	5.90
B0PB4M	Link Real Estate Investment Trust	1.05	8.92	6.08
B0190C	Techtronic Industries Co., Ltd.	1.16	12.96	8.98
B1DYPZ	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

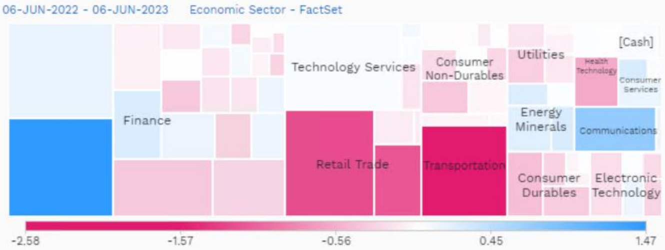
Contribution Bubble

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

••• Footnotes

Contribution to Return Heat Map

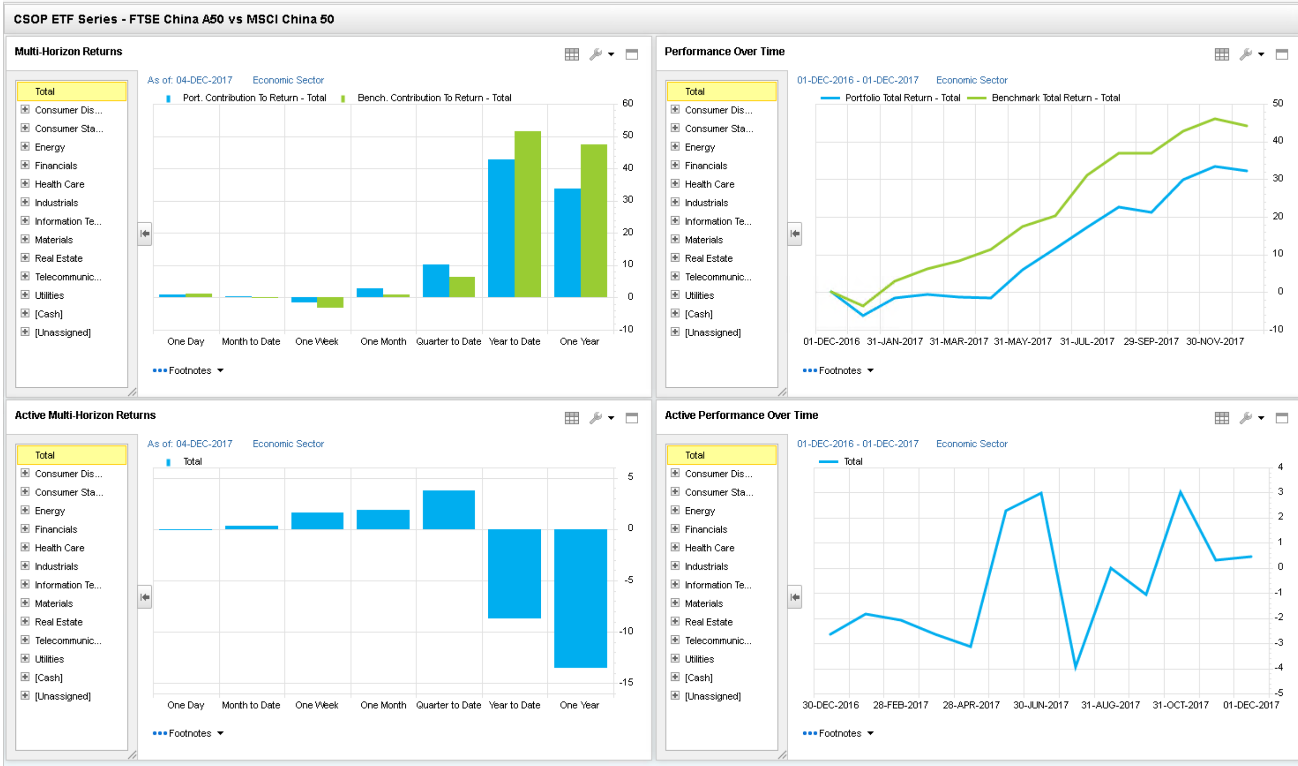
06-JUN-2022 - 06-JUN-2023 Economic Sector - FactSet



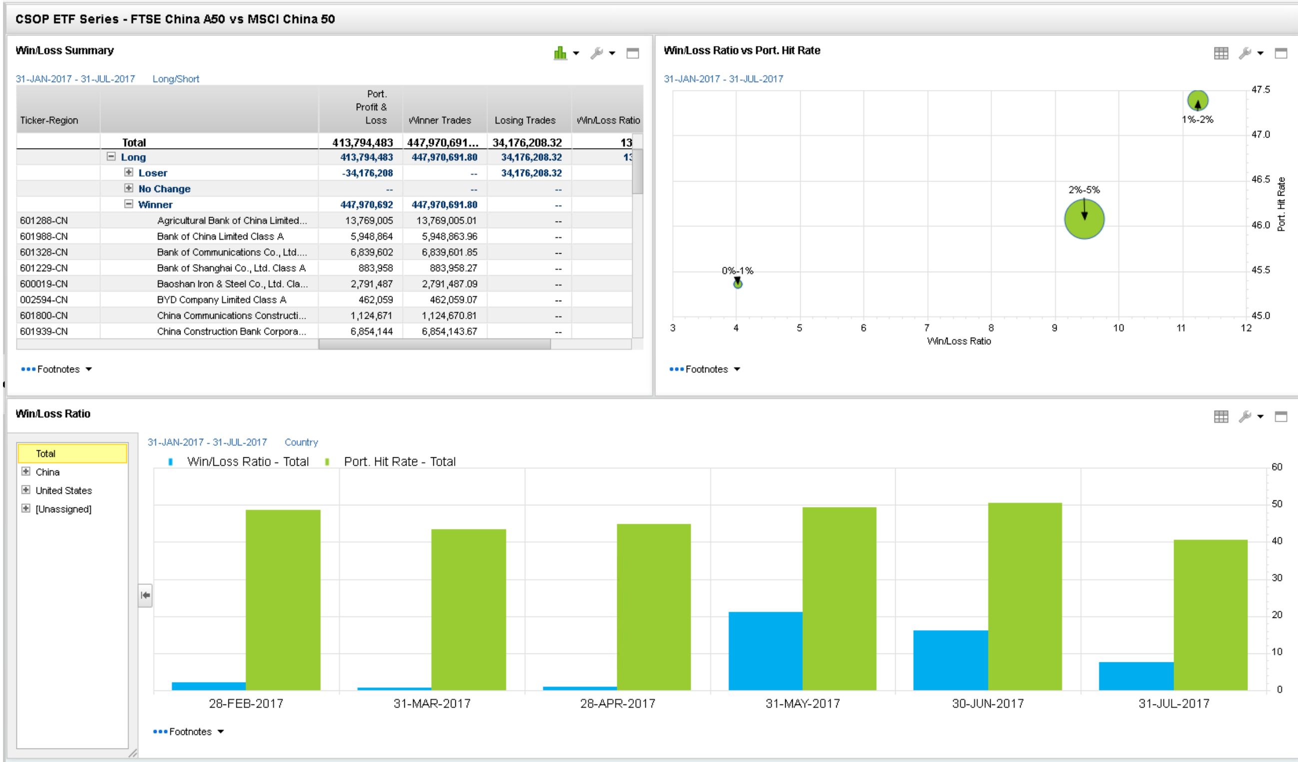
••• Footnotes

3.8 Performance Report - @PA3

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



- 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



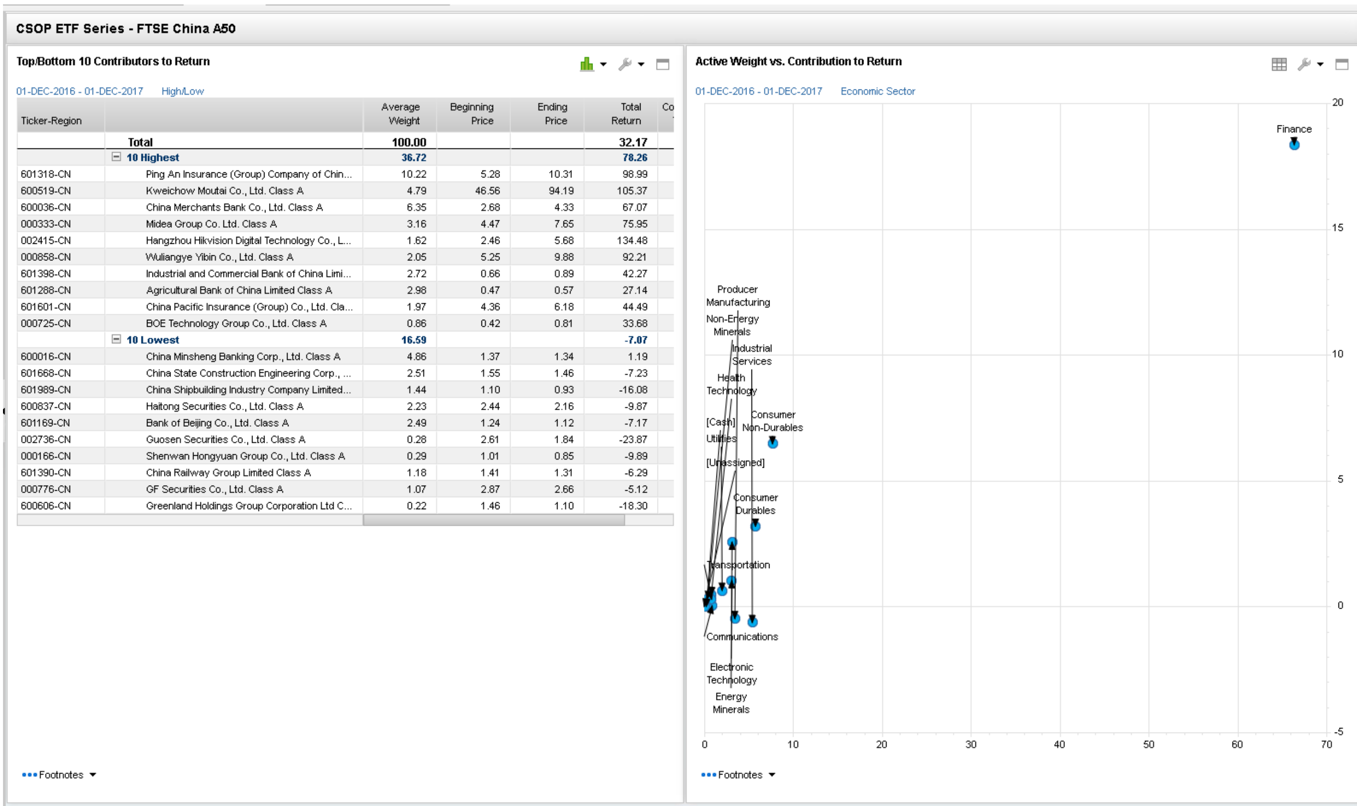
CSOP ETF Series - FTSE China A50 vs MSCI China 50

Win/Loss Summary

31-JAN-2017 - 31-JUL-2017 Long/Short

Ticker-Region		Port. Profit & Loss	Winner Trades	Losing Trades	Win/Loss Ratio
	Total	413,794,483	447,970,691...	34,176,208.32	13
	Long	413,794,483	447,970,691.80	34,176,208.32	13
	Loser	-34,176,208	--	34,176,208.32	
	No Change	--	--	--	
	Winner	447,970,692	447,970,691.80	--	
601288-CN	Agricultural Bank of China Limited...	13,769,005	13,769,005.01	--	
601988-CN	Bank of China Limited Class A	5,948,864	5,948,863.96	--	
601328-CN	Bank of Communications Co., Ltd....	6,839,602	6,839,601.85	--	
601229-CN	Bank of Shanghai Co., Ltd. Class A	883,958	883,958.27	--	
600019-CN	Baoshan Iron & Steel Co., Ltd. Cla...	2,791,487	2,791,487.09	--	
002594-CN	BYD Company Limited Class A	462,059	462,059.07	--	
601800-CN	China Communications Constructi...	1,124,671	1,124,670.81	--	
601939-CN	China Construction Bank Corpora...	6,854,144	6,854,143.67	--	

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



CSOP ETF Series - FTSE China A50

Top/Bottom 10 Contributors to Return

01-DEC-2016 - 01-DEC-2017 High/Low

Ticker-Region		Average Weight	Beginning Price	Ending Price	Total Return
	Total	100.00			32.17
	10 Highest	36.72			78.26
601318-CN	Ping An Insurance (Group) Company of Chin...	10.22	5.28	10.31	98.99
600519-CN	Kweichow Moutai Co., Ltd. Class A	4.79	46.56	94.19	105.37
600036-CN	China Merchants Bank Co., Ltd. Class A	6.35	2.68	4.33	67.07
000333-CN	Midea Group Co. Ltd. Class A	3.16	4.47	7.65	75.95
002415-CN	Hangzhou Hikvision Digital Technology Co., L...	1.62	2.46	5.68	134.48
000858-CN	Wuliangye Yibin Co., Ltd. Class A	2.05	5.25	9.88	92.21
601398-CN	Industrial and Commercial Bank of China Limi...	2.72	0.66	0.89	42.27
601288-CN	Agricultural Bank of China Limited Class A	2.98	0.47	0.57	27.14
601601-CN	China Pacific Insurance (Group) Co., Ltd. Cla...	1.97	4.36	6.18	44.49
000725-CN	BOE Technology Group Co., Ltd. Class A	0.86	0.42	0.81	33.68
	10 Lowest	16.59			-7.07
600016-CN	China Minsheng Banking Corp., Ltd. Class A	4.86	1.37	1.34	1.19
601668-CN	China State Construction Engineering Corp., ...	2.51	1.55	1.46	-7.23
601989-CN	China Shipbuilding Industry Company Limited...	1.44	1.10	0.93	-16.08
600837-CN	Haitong Securities Co., Ltd. Class A	2.23	2.44	2.16	-9.87
601169-CN	Bank of Beijing Co., Ltd. Class A	2.49	1.24	1.12	-7.17
002736-CN	Guosen Securities Co., Ltd. Class A	0.28	2.61	1.84	-23.87
000166-CN	Shenwan Hongyuan Group Co., Ltd. Class A	0.29	1.01	0.85	-9.89
601390-CN	China Railway Group Limited Class A	1.18	1.41	1.31	-6.29
000776-CN	GF Securities Co., Ltd. Class A	1.07	2.87	2.66	-5.12
600606-CN	Greenland Holdings Group Corporation Ltd C...	0.22	1.46	1.10	-18.30

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

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CSOP ETF Series - FTSE China A50

Contribution to Return

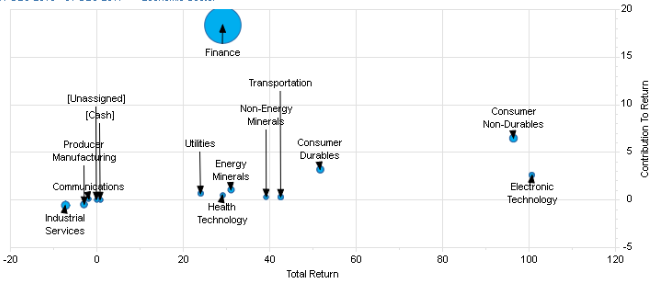
01-DEC-2016 - 01-DEC-2017 Economic Sector

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	173,290,665	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	2,218,885,352			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	24.11	0.64
	[Cash]	0.24	4,146,934	2,805,659			0.87	0.87	0.00

Footnotes

Contribution Bubble

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



Footnotes

Contribution to Return Heat Map

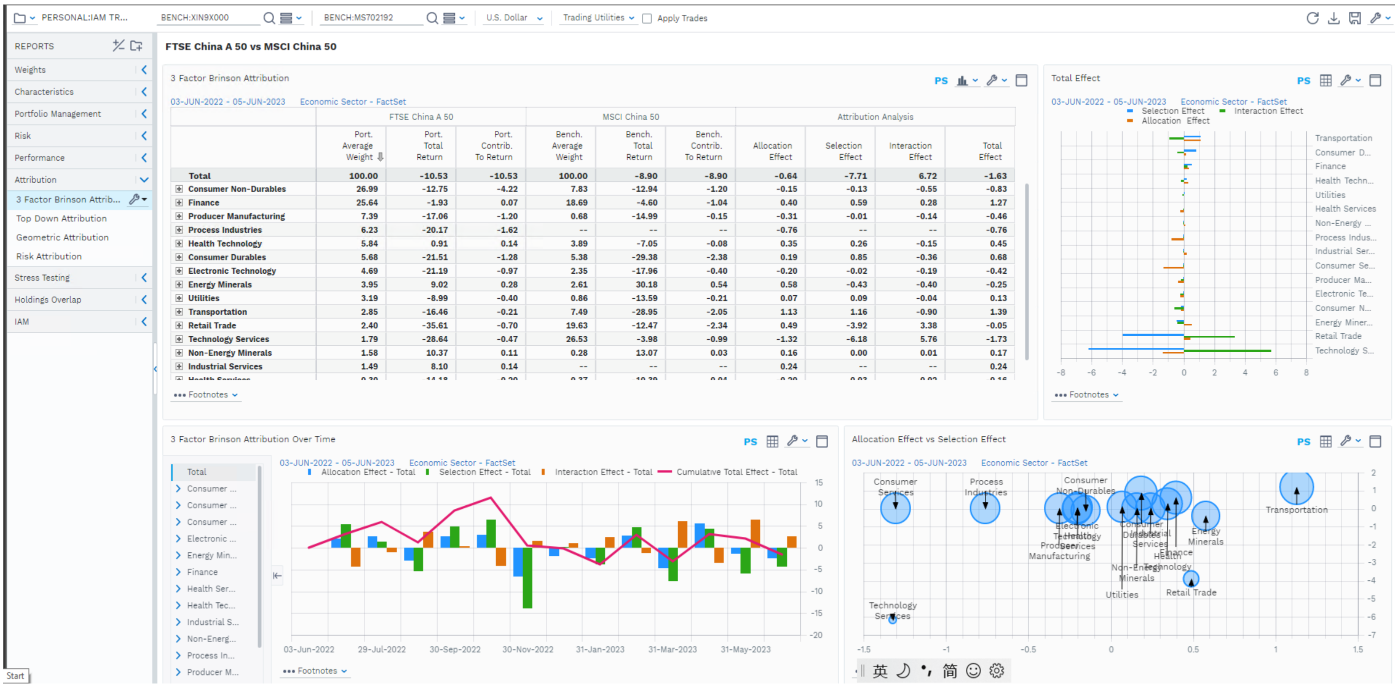
01-DEC-2016 - 01-DEC-2017 Economic Sector

Footnotes

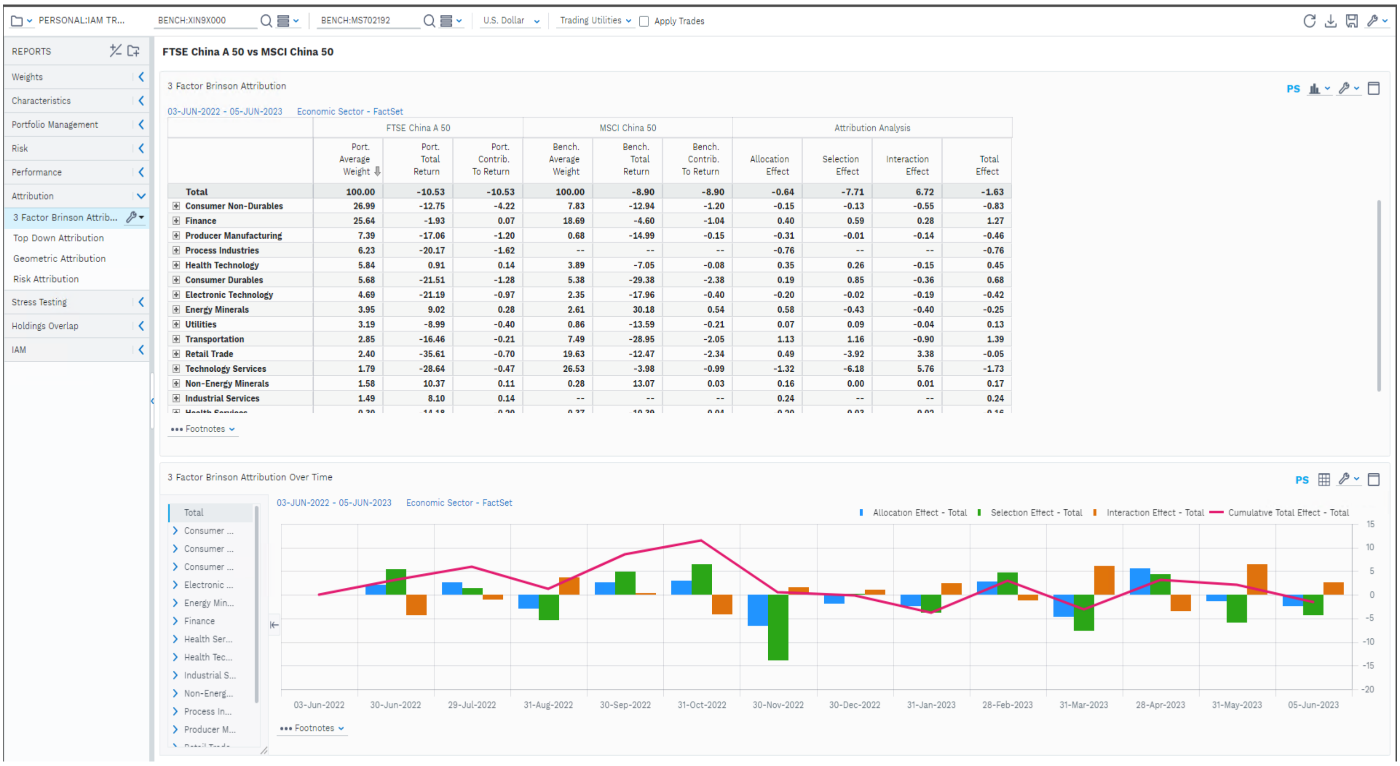
FACTSET SEE THE ADVANTAGE

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:



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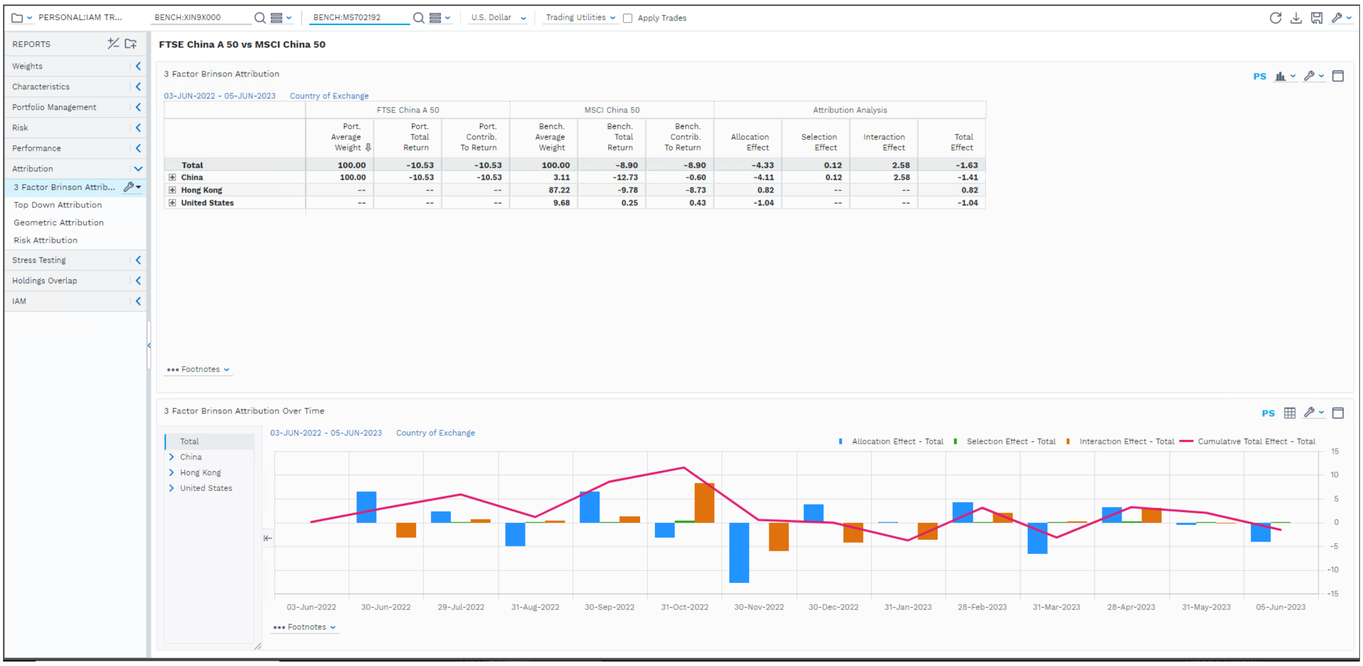
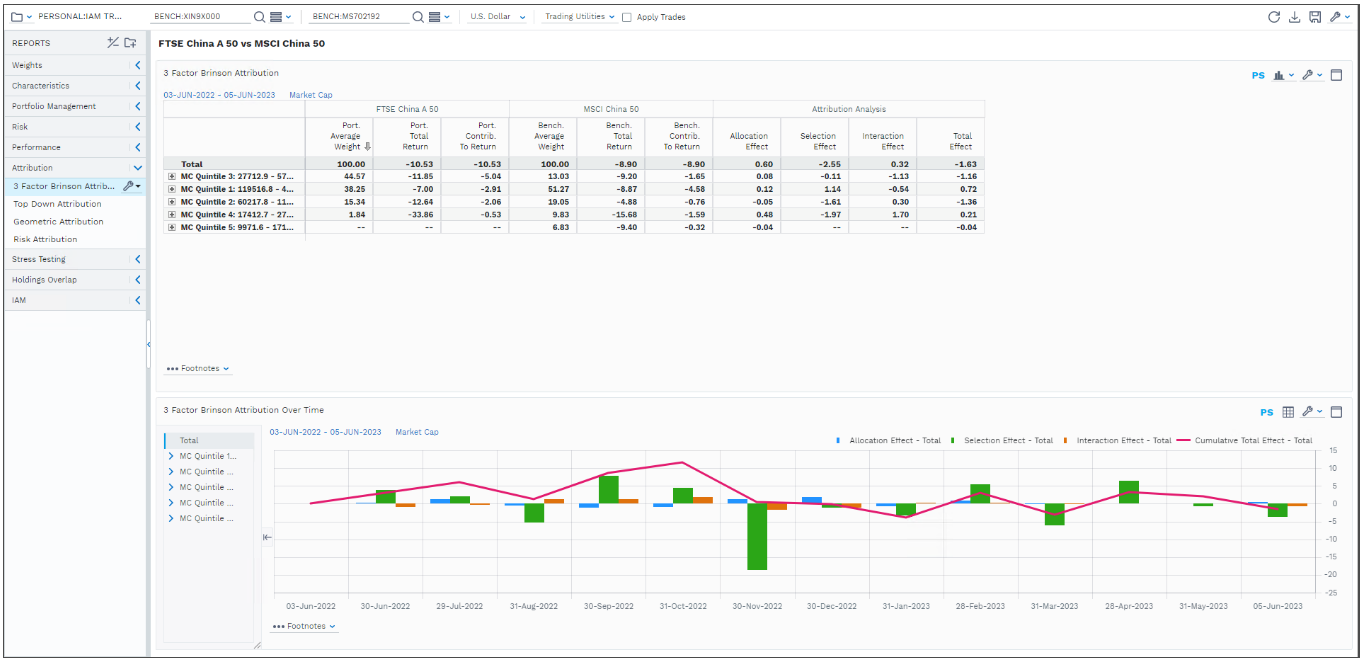
Below is an example for Country Attribution:



	FTSE China A 50			MSCI China 50			Attribution Analysis			
	Port. Average Weight	Port. Total Return	Port. Contrib. To Return	Bench. Average Weight	Bench. Total Return	Bench. Contrib. To Return	Allocation Effect	Selection Effect	Interaction Effect	Total Effect
Total	100.00	-10.53	-10.53	100.00	-8.90	-8.90	-4.33	0.12	2.58	-1.63
China	100.00	-10.53	-10.53	3.11	-12.73	-0.60	-4.11	0.12	2.58	-1.41
Hong Kong	--	--	--	87.22	-9.78	-8.73	0.82	--	--	0.82
United States	--	--	--	9.68	0.25	0.43	-1.04	--	--	-1.04

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.



	FTSE China A 50			MSCI China 50			Attribution Analysis			
	Port. Average Weight	Port. Total Return	Port. Contrib. To Return	Bench. Average Weight	Bench. Total Return	Bench. Contrib. To Return	Allocation Effect	Selection Effect	Interaction Effect	Total Effect
Total	100.00	-10.53	-10.53	100.00	-8.90	-8.90	0.60	-2.55	0.32	-1.63
MC Quintile 3: 27712.9 - 57...	44.57	-11.85	-5.04	13.03	-9.20	-1.65	0.08	-0.11	-1.13	-1.16
MC Quintile 1: 119516.8 - 4...	38.25	-7.00	-2.91	51.27	-8.87	-4.58	0.12	1.14	-0.54	0.72
MC Quintile 2: 60217.8 - 11...	15.34	-12.64	-2.06	19.05	-4.88	-0.76	-0.05	-1.61	0.30	-1.36
MC Quintile 4: 17412.7 - 27...	1.84	-33.86	-0.53	9.83	-15.68	-1.59	0.48	-1.97	1.70	0.21
MC Quintile 5: 9971.6 - 171...	--	--	--	6.83	-9.40	-0.32	-0.04	--	--	-0.04

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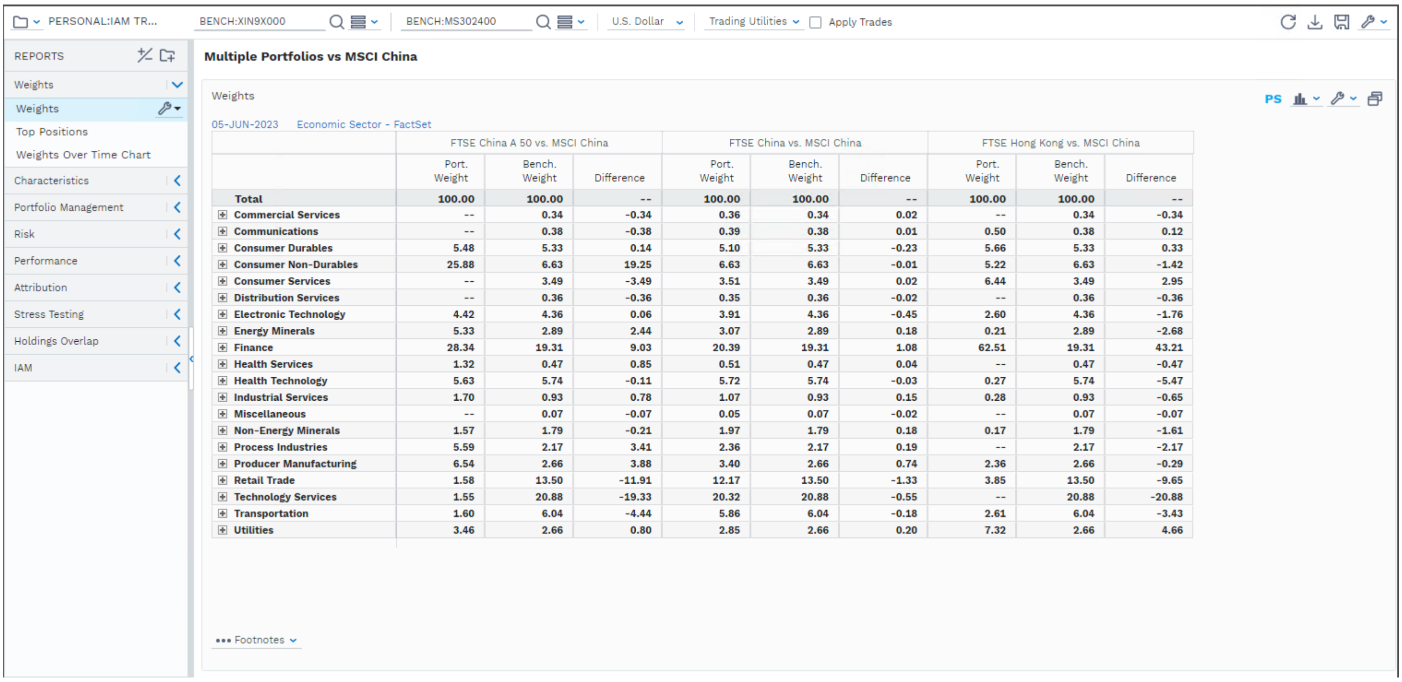
3.10 Multiple Portfolio Report - @PA3

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



	FTSE China A 50 vs. MSCI China			FTSE China vs. MSCI China			FTSE Hong Kong vs. MSCI China		
	Port. Weight	Bench. Weight	Difference	Port. Weight	Bench. Weight	Difference	Port. Weight	Bench. Weight	Difference
Total	100.00	100.00	--	100.00	100.00	--	100.00	100.00	--
Commercial Services	--	0.34	-0.34	0.36	0.34	0.02	--	0.34	-0.34
Communications	--	0.38	-0.38	0.39	0.38	0.01	0.50	0.38	0.12
Consumer Durables	5.48	5.33	0.14	5.10	5.33	-0.23	5.66	5.33	0.33
Consumer Non-Durables	25.88	6.63	19.25	6.63	6.63	-0.01	5.22	6.63	-1.42
Consumer Services	--	3.49	-3.49	3.51	3.49	0.02	6.44	3.49	2.95
Distribution Services	--	0.36	-0.36	0.35	0.36	-0.02	--	0.36	-0.36
Electronic Technology	4.42	4.36	0.06	3.91	4.36	-0.45	2.60	4.36	-1.76
Energy Minerals	5.33	2.89	2.44	3.07	2.89	0.18	0.21	2.89	-2.68
Finance	28.34	19.31	9.03	20.39	19.31	1.08	62.51	19.31	43.21
Health Services	1.32	0.47	0.85	0.51	0.47	0.04	--	0.47	-0.47
Health Technology	5.63	5.74	-0.11	5.72	5.74	-0.03	0.27	5.74	-5.47
Industrial Services	1.70	0.93	0.78	1.07	0.93	0.15	0.28	0.93	-0.65
Miscellaneous	--	0.07	-0.07	0.05	0.07	-0.02	--	0.07	-0.07
Non-Energy Minerals	1.57	1.79	-0.21	1.97	1.79	0.18	0.17	1.79	-1.61
Process Industries	5.59	2.17	3.41	2.36	2.17	0.19	--	2.17	-2.17
Producer Manufacturing	6.54	2.66	3.88	3.40	2.66	0.74	2.36	2.66	-0.29
Retail Trade	1.58	13.50	-11.91	12.17	13.50	-1.33	3.85	13.50	-9.65
Technology Services	1.55	20.88	-19.33	20.32	20.88	-0.55	--	20.88	-20.88
Transportation	1.60	6.04	-4.44	5.86	6.04	-0.18	2.61	6.04	-3.43
Utilities	3.46	2.66	0.80	2.85	2.66	0.20	7.32	2.66	4.66

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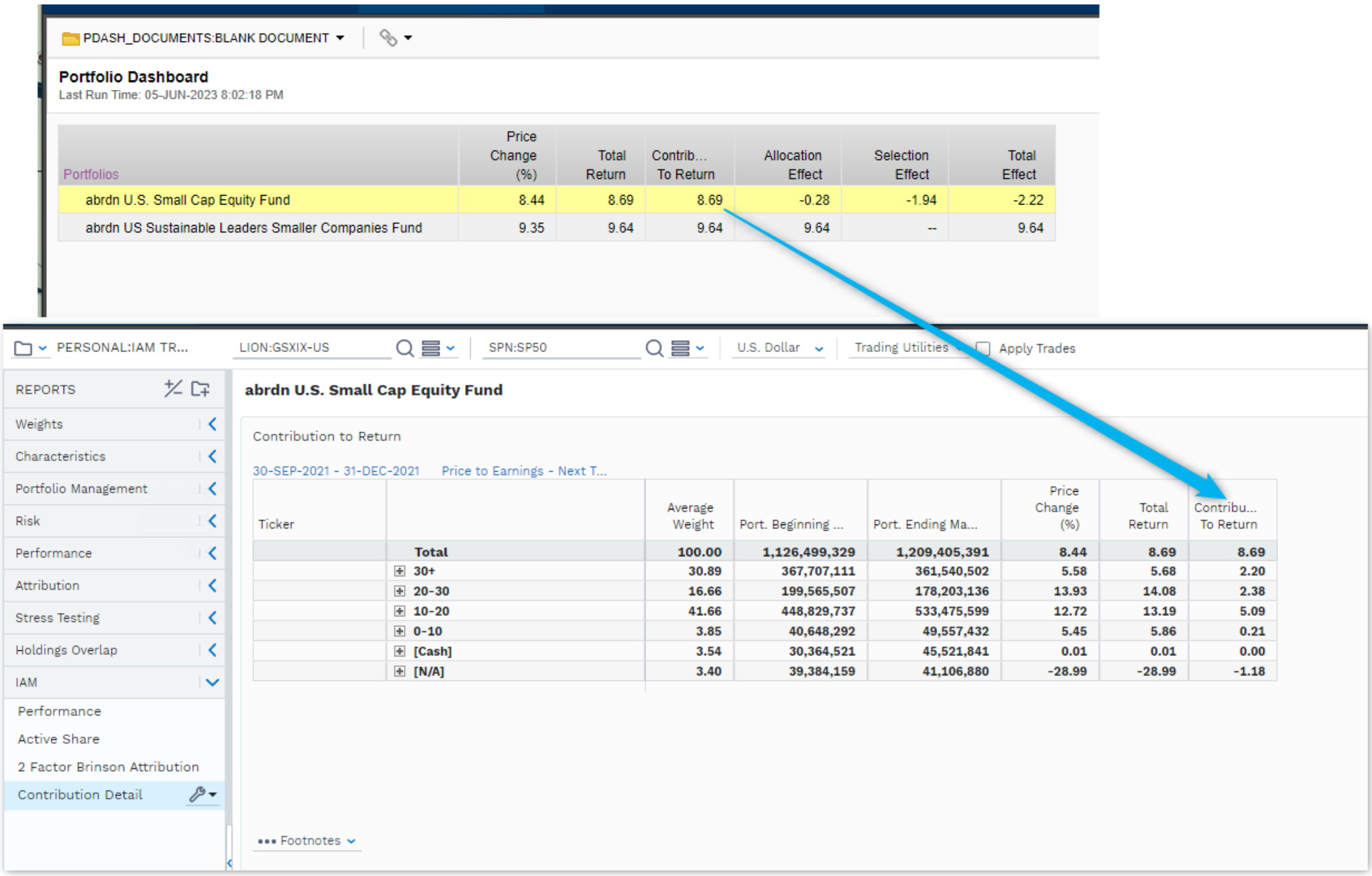
3.11 Portfolio Dashboard - @PD2

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



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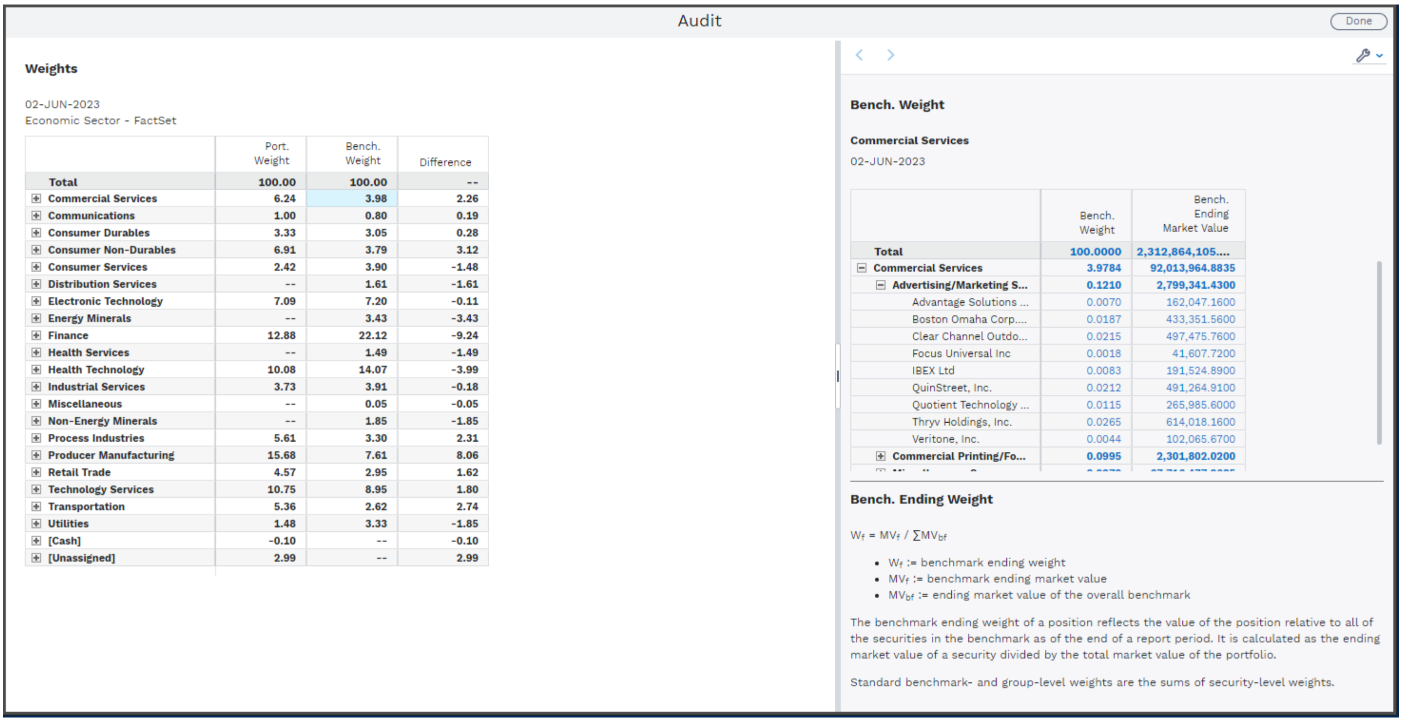
3.12 Useful Feautres in Portfolio Analysis - @PA3

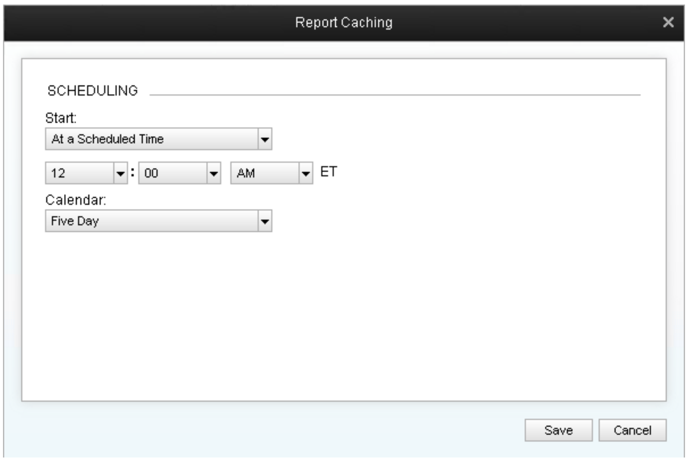
Easy to Audit

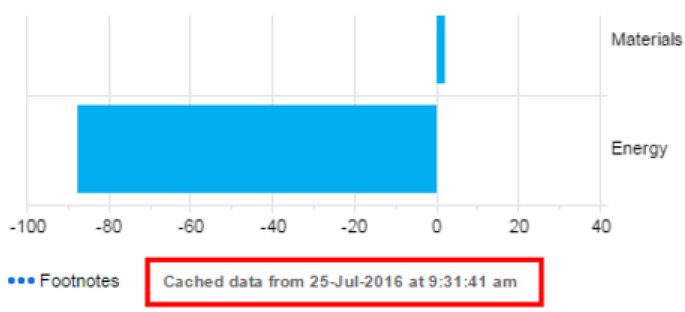
Use the Portfolio Analysis Auditor to view the values behind a security- or group-level calculation. Portfolio Analysis Auditor allows you to see the daily values used to calculate a time-series result, the security-level values used to calculate a group-level value, and the group-level values used to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



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.





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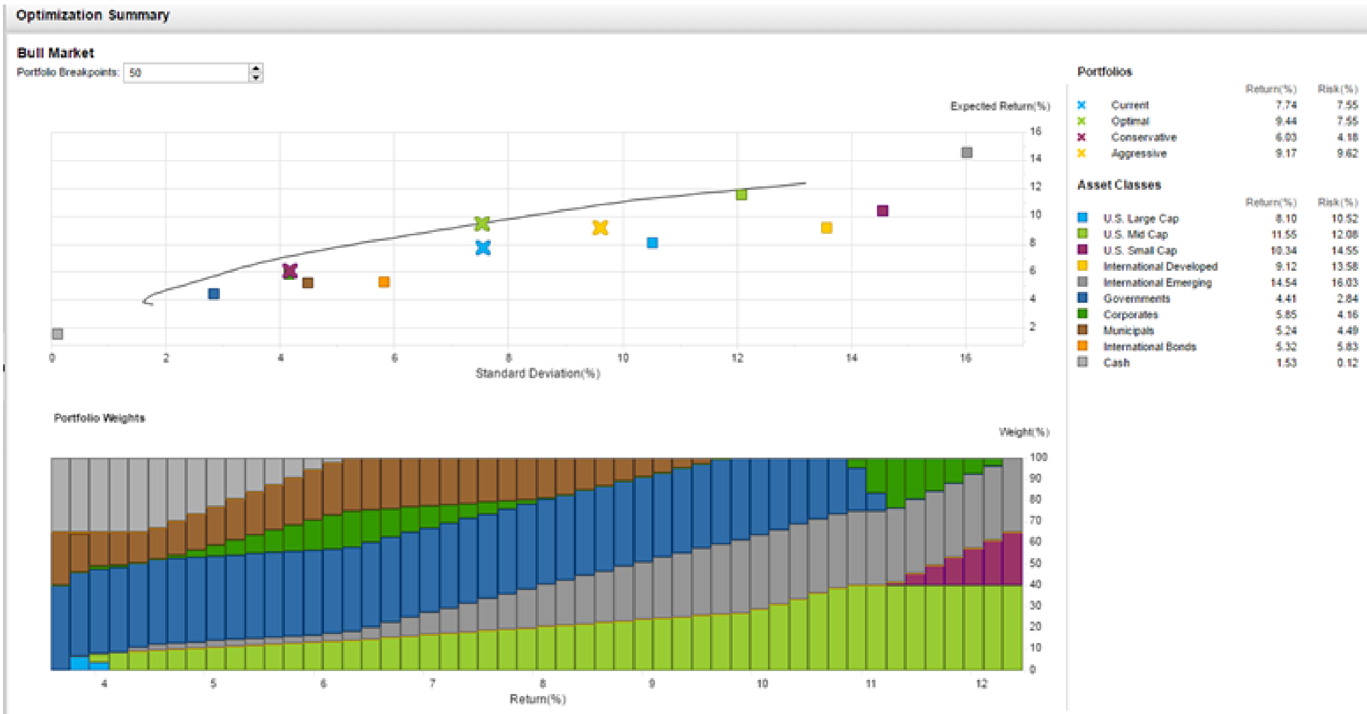
3.13 Asset Allocation - @AA

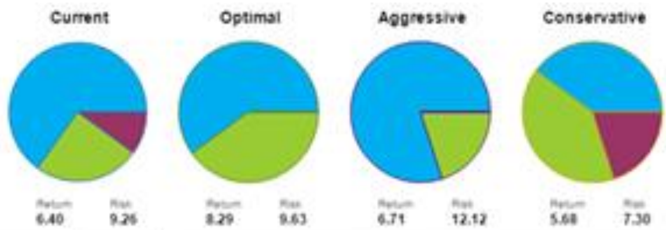
Run advanced optimization and forecasting models

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





		Comparison Weights					
Asset Class	Current(%)	Optimal(...	Diff(%)	Aggress...	Diff(%)	Conserv...	Diff(%)
Equity	65.00	60.00	-5.00	80.00	15.00	40.00	-25.00
Developed Europe	15.00	5.00	-10.00	20.00	5.00	10.00	-5.00
Developed Pacific	15.00	5.00	-10.00	20.00	5.00	10.00	-5.00
Developed US	30.00	50.00	20.00	20.00	-10.00	10.00	-20.00
Emerging Equity	5.00	0.00	-5.00	20.00	15.00	10.00	5.00
Fixed Income	25.00	40.00	15.00	20.00	-5.00	40.00	15.00
Developed Fixed Income	20.00	25.00	5.00	10.00	-10.00	20.00	0.00
Emerging Fixed Income	5.00	15.00	10.00	10.00	5.00	20.00	15.00
Cash	10.00	0.00	-10.00	0.00	-10.00	20.00	10.00

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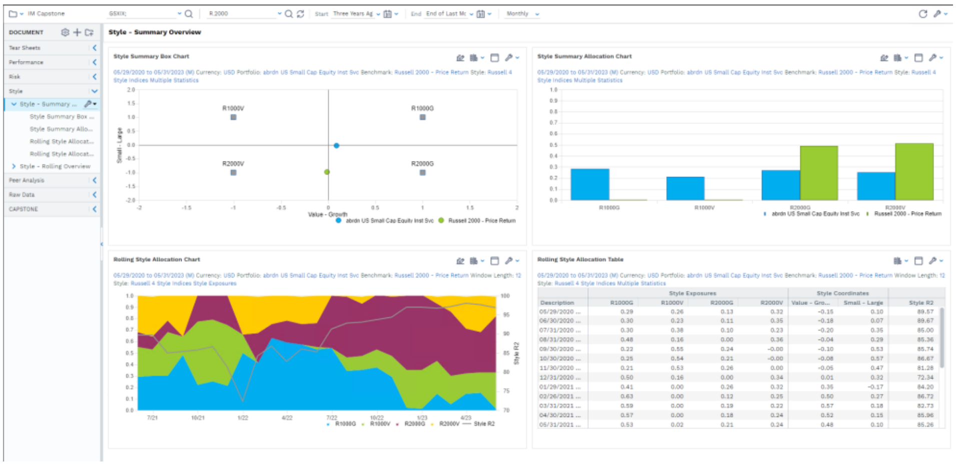
3.14 SPAR (Style, Performance, and Risk) - @SP3

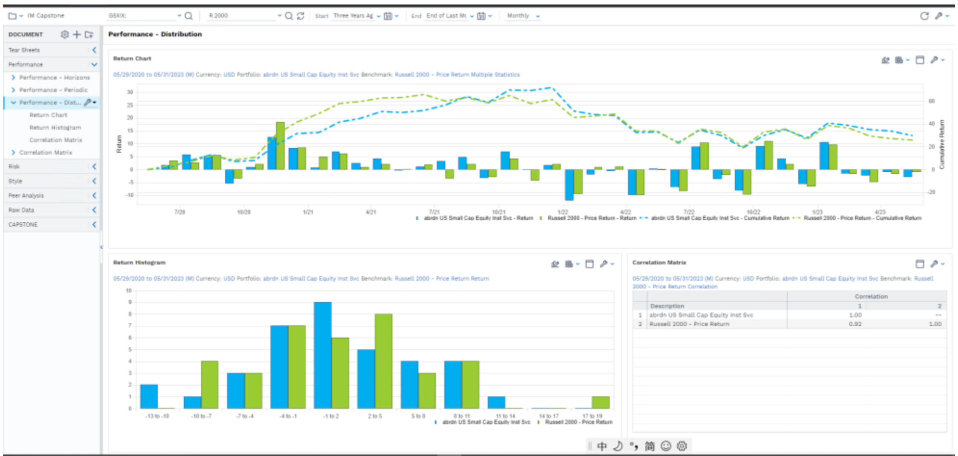
Look into style, performance and risk

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.





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4 Quantitative Analysis (Quant Analytics)

4.1 Alpha Testing - @AT4

Back Testing

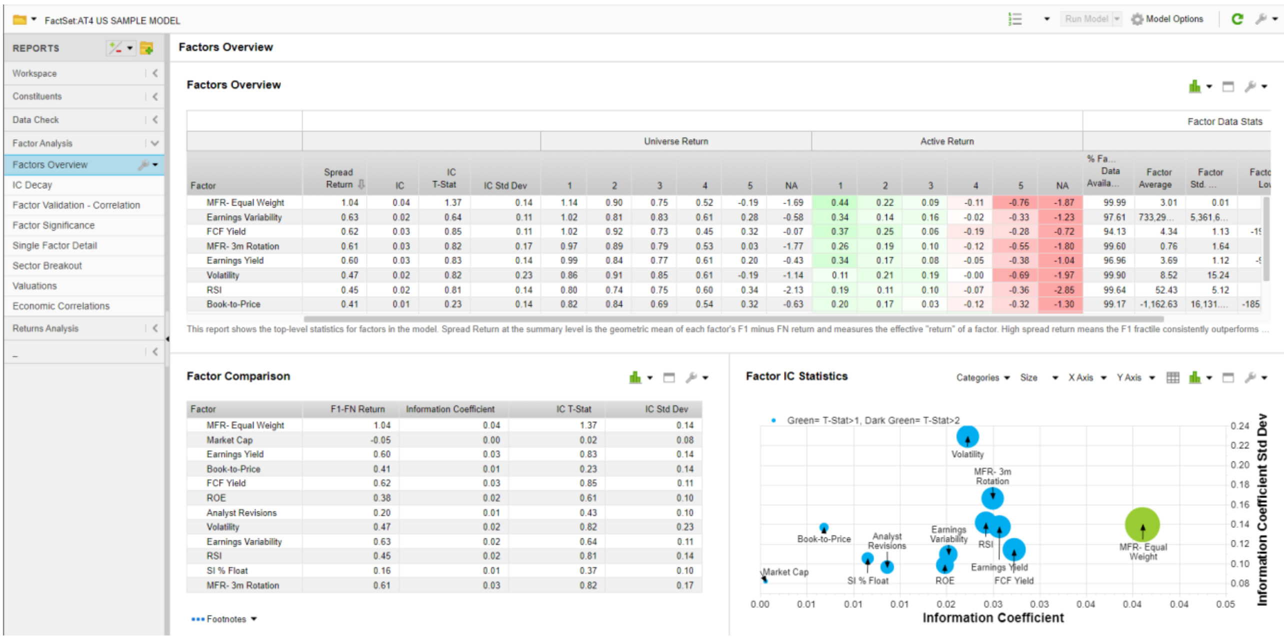
Test your ideas about which quantitative and qualitative factors drive returns

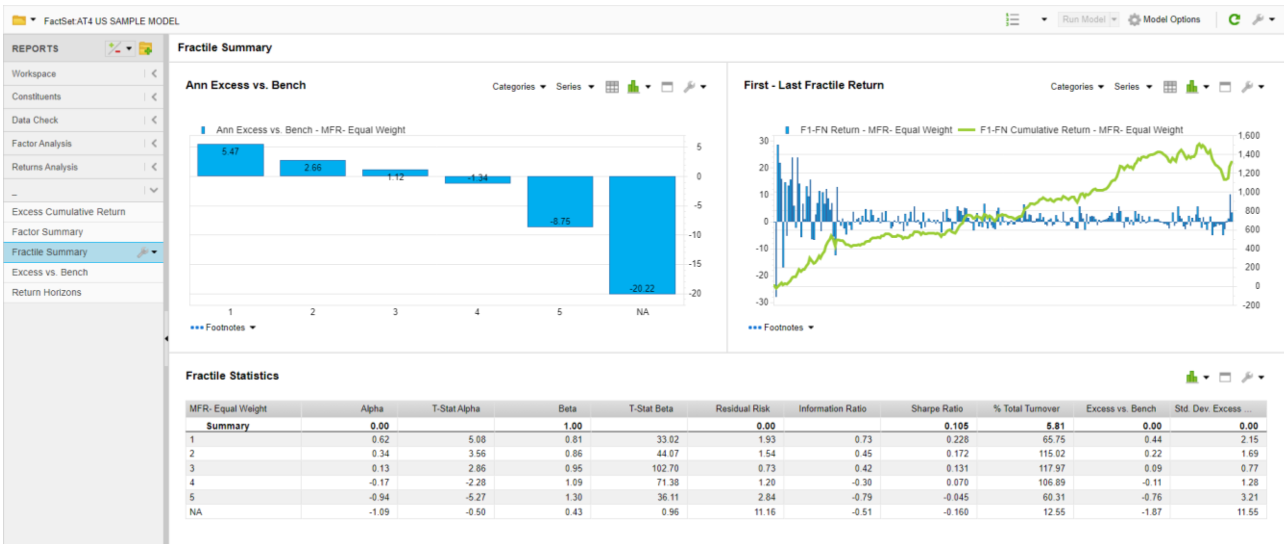
Fractile and Grouping

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





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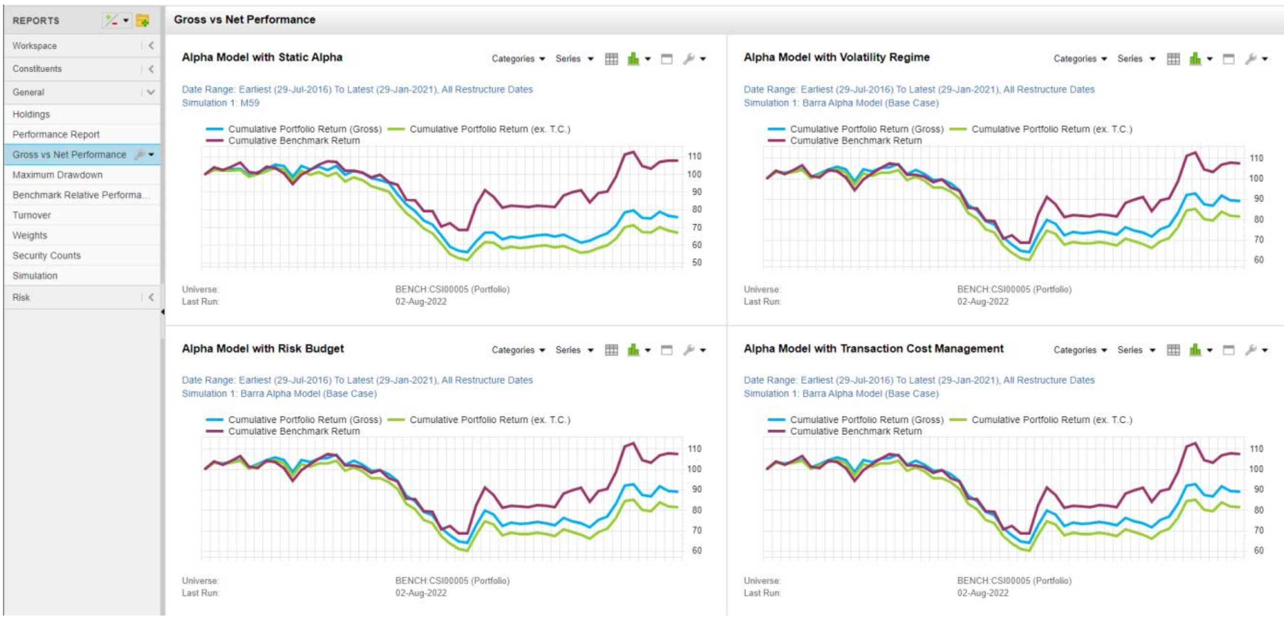
4.2 Portfolio Simulation - @PS3

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
B1Z6XM	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...	1.00	600004...	Div	NA	NA	0.16	Dividends
	⊟ 30-Aug-2016							
620337	Shandong Nan...	1.00	600219...	Div	NA	NA	0.00	Dividends
	⊟ 31-Aug-2016							

••• Footnotes ▾

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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**

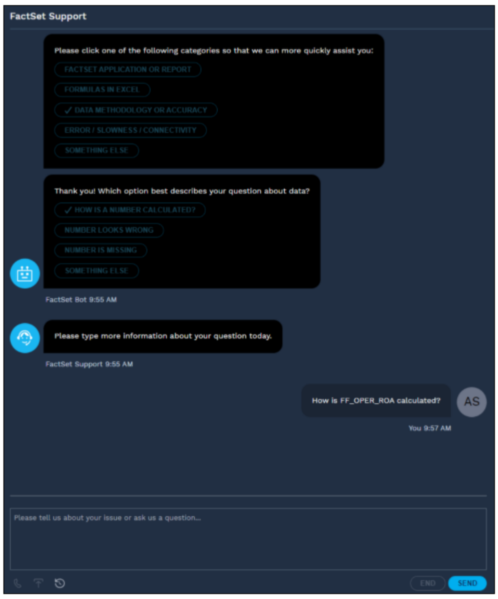
China account team: **cn_support@factset.com**

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.

FACTSET › SEE THE ADVANTAGE

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 equiries listed below, it will be best to contact your **Primary Consultant/Specialists**:

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

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