



香港恒生大學
THE HANG SENG UNIVERSITY
OF HONG KONG



ESG 研究中心
RESEARCH CENTRE FOR ESG

Driving Profit with Purpose: Integrating ESG Concepts into Business Decisions

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Event: International Forum on Circular Fashion and UNSDGs
in the fashion and textile industry

Date: July 26, 2023



Some professional services and industry engagement activities.



- Dr S H Ho Professor of Banking and Finance since 2021
- Directors of the Research Centre for ESG (CESG) and Research Institute for Business (RIB)
- Business Studies Assessment Panel member for Competitive Research Funding Schemes (Self-financing sector) of the RGC (2022 –2024)
- Business Studies Panel (Joint Research Schemes) member of the RGC (2016-20)
- Member of the Investment Committee of the Hospital Authority Provident Fund Scheme (2016-22)
- Advisor for Bhutan’s Green Bond initiative and consultant of United Nations
- Professor of Finance (2010-20) & Director of the Center for Economic Sustainability and Entrepreneurial Finance (CESEF) (2018-20), PolyU
- Council member & Trustee of the Pension Fund of the PolyU (2011-13)
- Member of the Examination Board of the Institute of Financial Planners of Hong Kong (IFPHK).
- Served as a project consultant for various organizations including:
 - UN ESCAP, Securities and Futures Commission (SFC), Mandatory Provident Fund Scheme Authority (MPFA), Hong Kong Exchanges (HKEx), Investor Education Centre (IEC)
 - Bank of China (HK) Private Banking, Agricultural Bank of China (HK) Private Banking, Value Partners, Fubon Bank, Bank Consortium Trust Hong Kong, Charles Schwab (US)

The background of the slide is a composite image. On the left, a portion of the Earth is visible, showing blue oceans, white clouds, and green landmasses. This transitions into a vast field of stars and galaxies, with a prominent yellow and orange nebula or star formation region in the center. The overall color palette is dark with vibrant highlights from the celestial bodies.

Driving Profit with Purpose: Integrating ESG Concepts into Business Decisions

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**Looking forward: Understanding alternative data
and ESG applications**

Understanding ESG

ESG 1-2-3

ESG DEFINITION

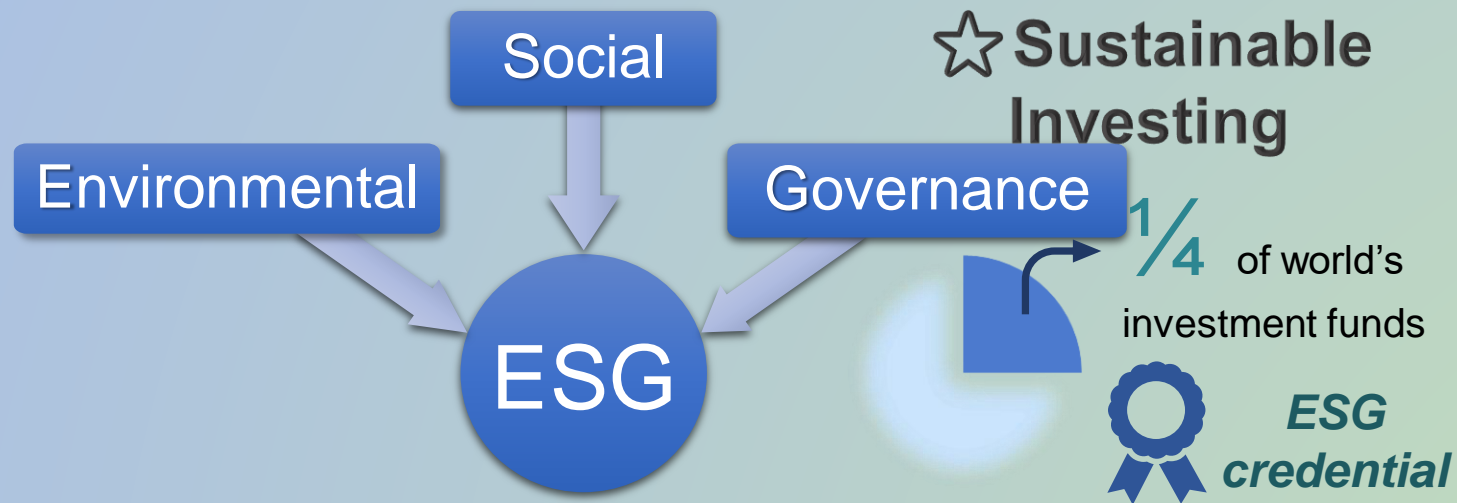


United Nations
Framework Convention on
Climate Change

CSR 1992



PRI Principles for
Responsible
Investment
ESG 2006



Socially responsible investment (SRI) has been around for over 90 years, but Environmental, Social and Governance (ESG) is relatively new. ESG became prominence in 2006 with the launch of the UN PRI (Principles for Responsible Investment).



ESG 1-2-3

ESG materiality analysis: airlines as example



ESG integration life-cycle

ESG Fully Integrated

Directly invest capital towards companies which provide solutions to ESG issues and affect real world outcomes.

➤ *Best-in-class*

Investors actively invest in a sub-set of the best practitioners in a sector.

➤ *Thematic*

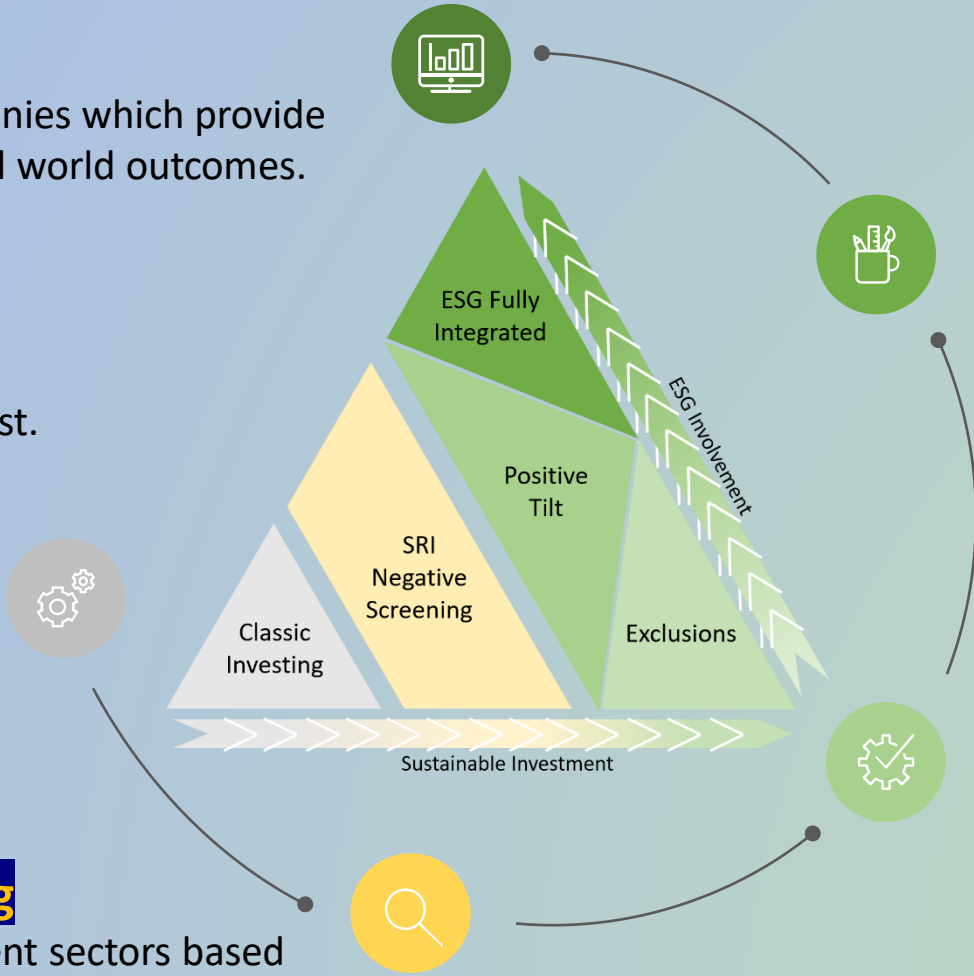
Investors often follow themes to invest.

Classic Investing

Investment involves little ESG-related issues.

SRI Negative Screening

Passively excluding investment sectors based on ethical and religious values.



ESG Positive Tilt

With the intention to generate measurable and beneficial societal impacts alongside a financial return.

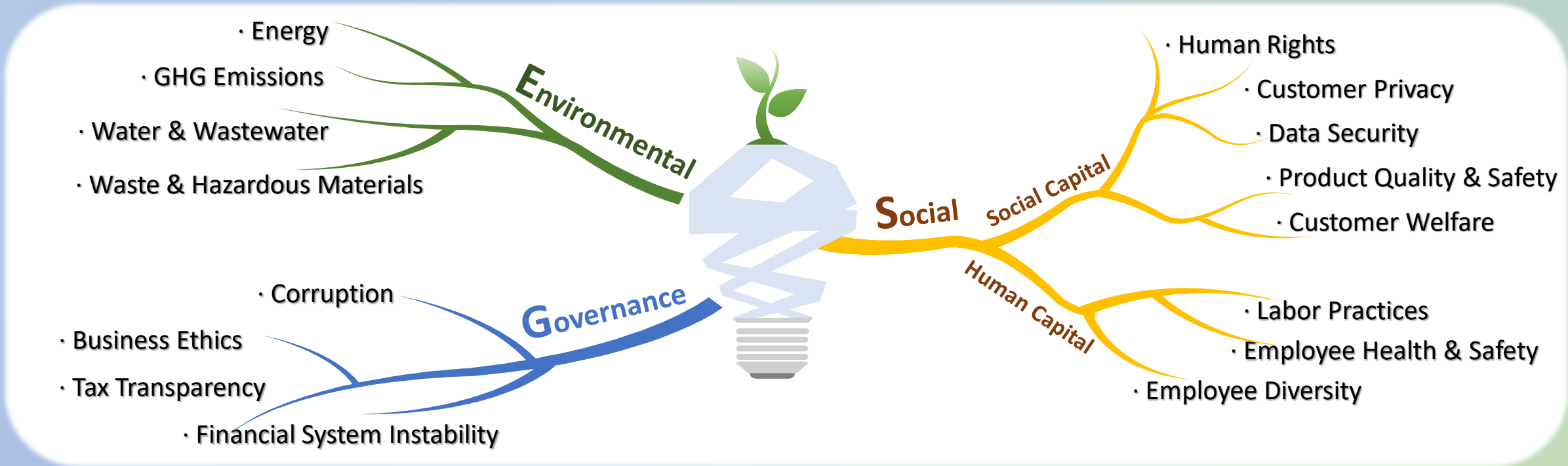
ESG Exclusions

Excluding the companies or sectors based upon low ESG factors.



ESG Pillars and Major Issues

➤ Promote **Environmental x Social (ES)** initiatives in your class through lecture and projects

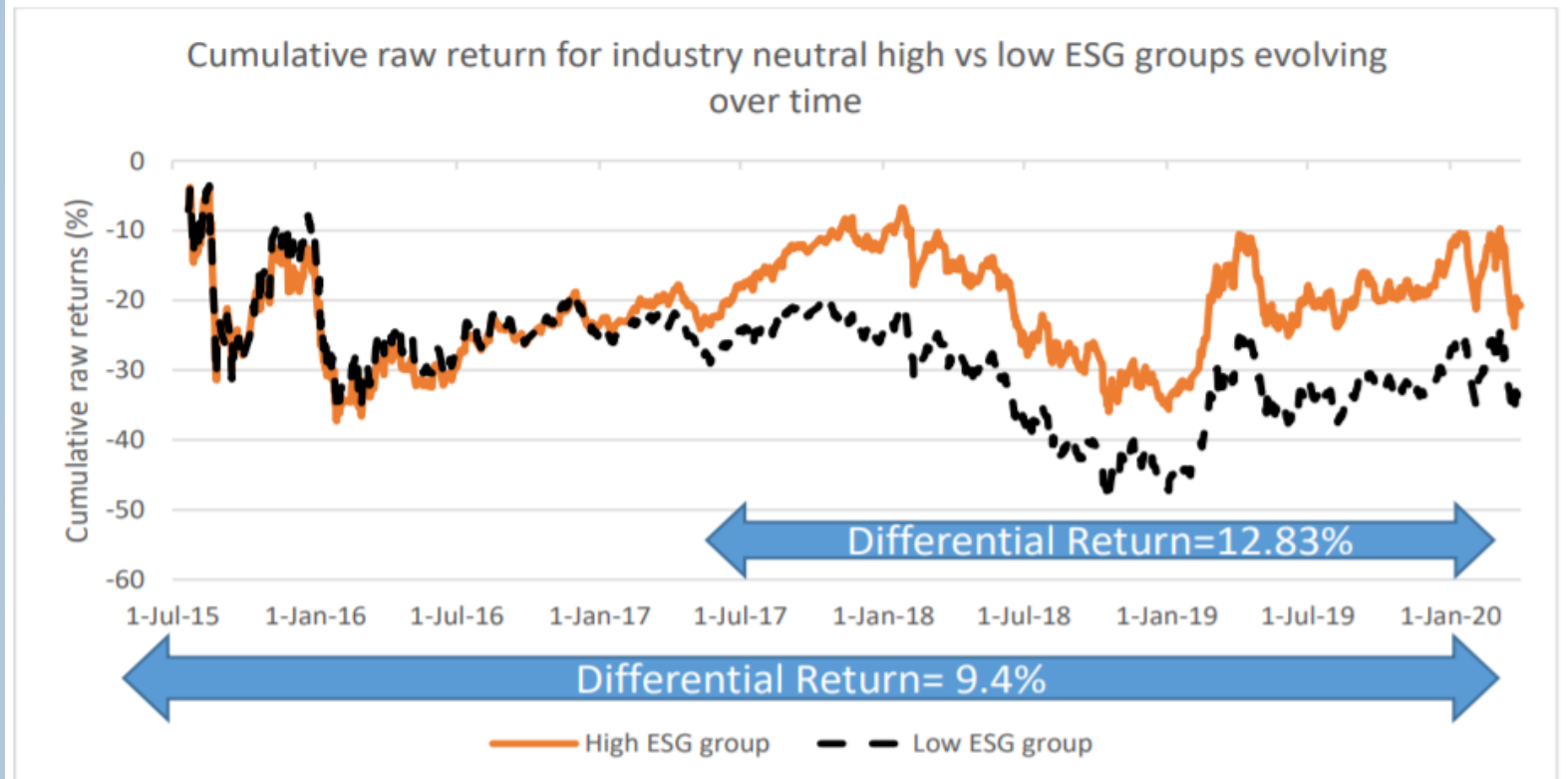


ESG integration and making profit

Investment Return Adopting ESG Integration in China

Cumulative raw return for industry neutral high vs low ESG groups evolving over time (20150701-20200331)

This figure plots the cumulative raw return for industry neutral high vs low ESG groups trend evolving over time. As the end of Mar 2020, we sort stocks into high vs low portfolios based on their sample median ESG total scores every six months period, and track their cumulative raw return, starting from Jul 1, 2015.



Reference: David C. Broadstock, Kalok Chan, Louis T.W. Cheng, Xiaowei Wang. "The role of ESG performance during times of financial crisis: Evidence from COVID-19 in China", Finance Research Letters, Volume 38, 2021.

The Happiness Dividend by BlackRock: An Example of Social Pillar Engagement

Return of firms scoring in the top quintile for employee satisfaction versus those scoring in the bottom quintile



Source: BlackRock's Scientific Active Equity Group, February, 2015. These are cumulative specific returns for owning names in the top and bottom quintiles of employee sentiment in the MSCI ACWI IMI Index, as determined by SAE. The names in these quintiles are not static and change through time. This is a frictionless simulation (i.e., no transaction costs are applied).

ESG integration for various business areas



Key Observations of ESG Integration Development in Asia

Drivers:

- Risk Management (56.52%)
- Client Demand (43.48%)
- Regulation (41.3%)

Barriers:

- Limited understanding of the ESG issues and/or ESG integration (45.65%)
- Lack of comparable and historical ESG data” (41.3%)
- Concerns about negative returns, tracking error and underperforming a benchmark” (39.13%)

Conclusion:

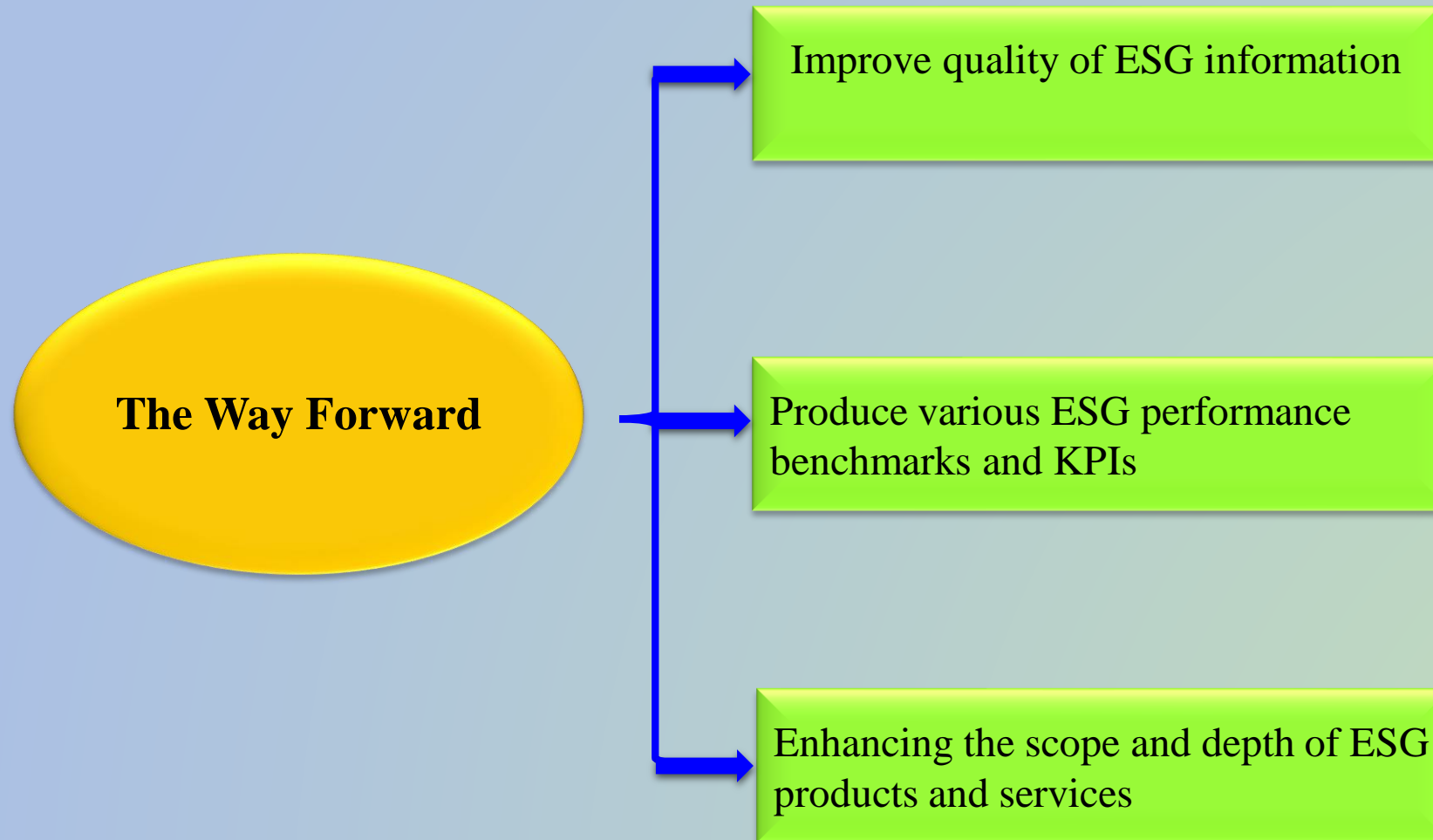
The ESG landscape for more mature ESG stakeholders

- For more mature asset management managers, asset owners, and listed firms, *corporate governance practice* and *management buy-ins* lead to the emphasis of risk management based on ESG channels. As long-term risk mitigation is commonly regarded as an obvious benefit of E, S, and G factors.

The ESG landscape for early-stage ESG stakeholders

- For early-stage ESG market participants, regulation is named as a top driver. However, this driver may imply a sense of compliance as a driving force.
- The knowledge gap between the ESG services providers and the clients lead to the current problem of *lacking a check-and-balance* for these ESG activities.

Looking forward: Understanding alternative data and ESG applications

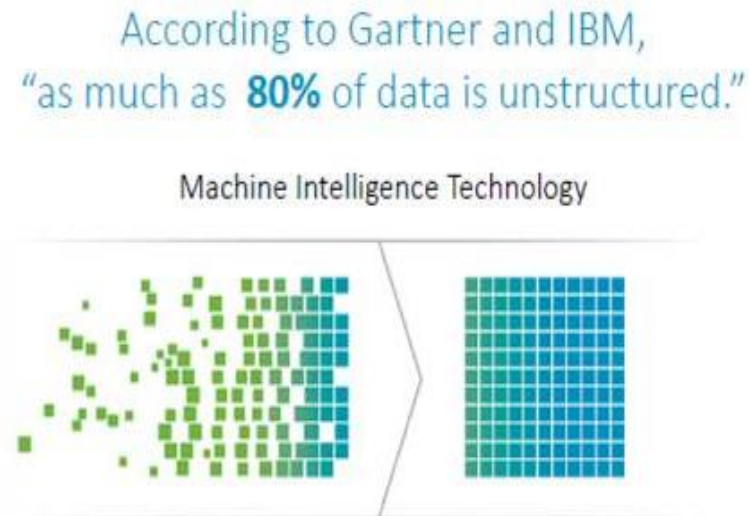


AI Investments

ALTERNATIVE DATA ON THE RISE

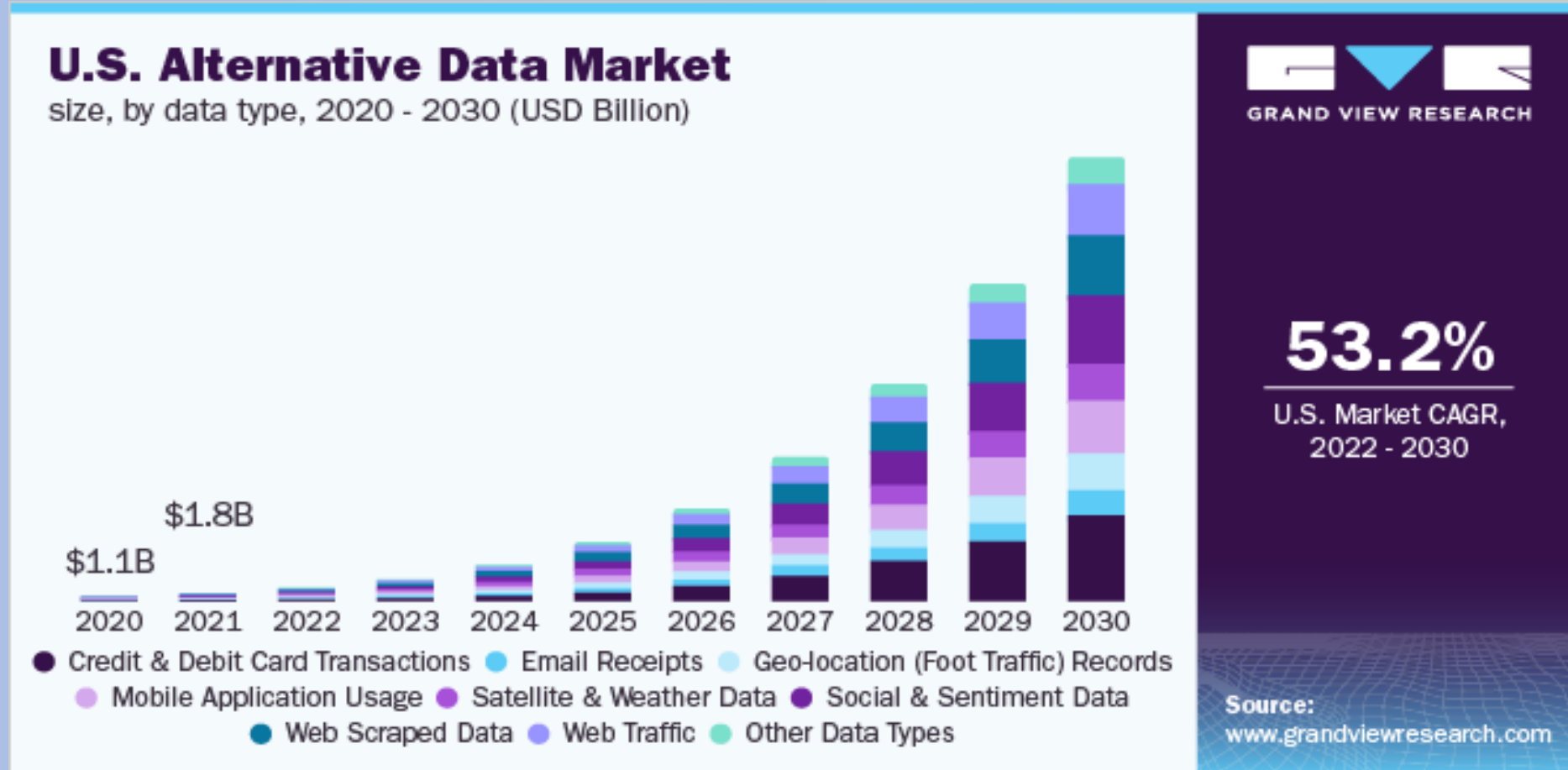
Non-traditional, unstructured data can be leveraged to gain insights on financial markets and allow investors to better manage risk and find alpha.

- Over 60% of asset managers and nearly 75% of hedge funds are currently using “alternative data” as part of their investment process and this number is expected to continue to grow.*
- Opimas estimates that investors are spending about \$5bn a year on alternative data, and expect the industry to grow 30% annually in the coming years.**



Big Spenders: Money Managers Are Ramping Up Spending on Alternative Data

The global alternative data market size was valued at USD 2.7 billion in 2021 and is expected to expand at a compound annual growth rate (CAGR) of 54.4% from 2022 to 2030. The key drivers attributed to market expansion include the significant increase in the types of alternative information sources over the last decade. While web scraping and financial transactions are the most common sources, the emerging sources, including mobile devices, social media, satellites, sensors, IoT-enabled devices, and others, are gaining wider popularity. As such, the companies are actively expanding their offering by gathering information from all such sources.



NEW DATA SETS NOW AVAILABLE

ESG HOLDINGS
INTELLIGENCE

SOCIAL MEDIA
SENTIMENT

ETF REFERENCE
DATA

FINANCIAL SYSTEMIC
EXPOSURE

GLOBAL NEWS
EXPOSURE

SUPPLY CHAIN
NETWORK EXPOSURE

Nasdaq

INSIDE NASDAQ: BJORN SIBBERN, GLOBAL INFORMATION SERVICES, NASDAQ (2 Feb, 2017)

- Nasdaq Information Service is one of the company's largest business units by revenue (22%) with 120 employees.
-technology is changing the way we think about dataexperimenting with *advanced analytics* and *machine learning* techniques to develop products that help customers glean stronger insights to make better decisions.
- our **Innovation Lab** – designed to help traders better understand how they perform in the market.....

PREVIOUSLY-LAUNCHED DATA SETS

MULTI-FACTOR LONG

MULTI-FACTOR LONG
WITH HEDGE

CENTRAL BANK COMMS

CORPORATE EARNINGS

TWITTER SENTIMENT

PREMIUM SHORTS

CORPORATE FILINGS

TECHNICAL INDICATORS

Big Data x ESG = Innovation

Using Machine Learning to Measure ESG Sentiment through Media

Project title: Fostering Big Data Applications and Innovation to Reflect Corporate ESG Performance through Media and Social Listening (GSP/033/22) (Funded by: The General Support Programme of the Innovation and Technology Fund.)

Why we engage in this project?

Big Data analytics can be used easily but the quality of the **generated alternative data** to support decision requires content expertise. Currently, listed firms related to ESG mainly focuses on annual reporting and ESG reporting to showcase their sustainability efforts and achievement. One major problem of ESG communication (from the IR team and top management to stakeholders including investors and clients) is that the ESG performance is only reported once a year in the annual reports. But in fact, there are ESG related events occurring every day.

Our solution: Through newspapers, TV, online media and social media, stakeholders learn about the ESG events related to the companies and they form an opinion on the ESG performance of the firms. The Research Centre aims to promote big data analytics through a technology-driven ESG performance-based sentiment indicator using social listening measures for listed companies in Hong Kong. The project will provide a publicly available ESG performance-based sentiment indicator for listed companies to illustrate Big Data analytics in an innovative manner.

Using ESG Performance Rating and Sentiment Data to Measure ESG Intelligence. Our visualization reflects i-Score universe as the z-axis with RavenPack sustainability sentiment score (RP Sustain Net Senti) as the x-axis, and the Youjivest net ESG score (YJV ESG Net Senti) as the y-axis.

GICS1, i-Score_or_not

- Industrials, i-Score
- Industrials, Peers
- Utilities, i-Score
- Utilities, Peers
- Real Estate, i-Score
- Real Estate, Peers
- Financials, i-Score
- Financials, Peers
- Communication Services, i-Score
- Communication Services, Peers
- Health Care, i-Score
- Health Care, Peers
- Consumer Discretionary, i-Score
- Consumer Discretionary, Peers
- Consumer Staples, i-Score
- Consumer Staples, Peers
- Information Technology, i-Score
- Information Technology, Peers
- Materials, i-Score
- Materials, Peers
- Energy, i-Score
- Energy, Peers

2022 i-Score vs Peers Performance based on GICS1 Industry Classification

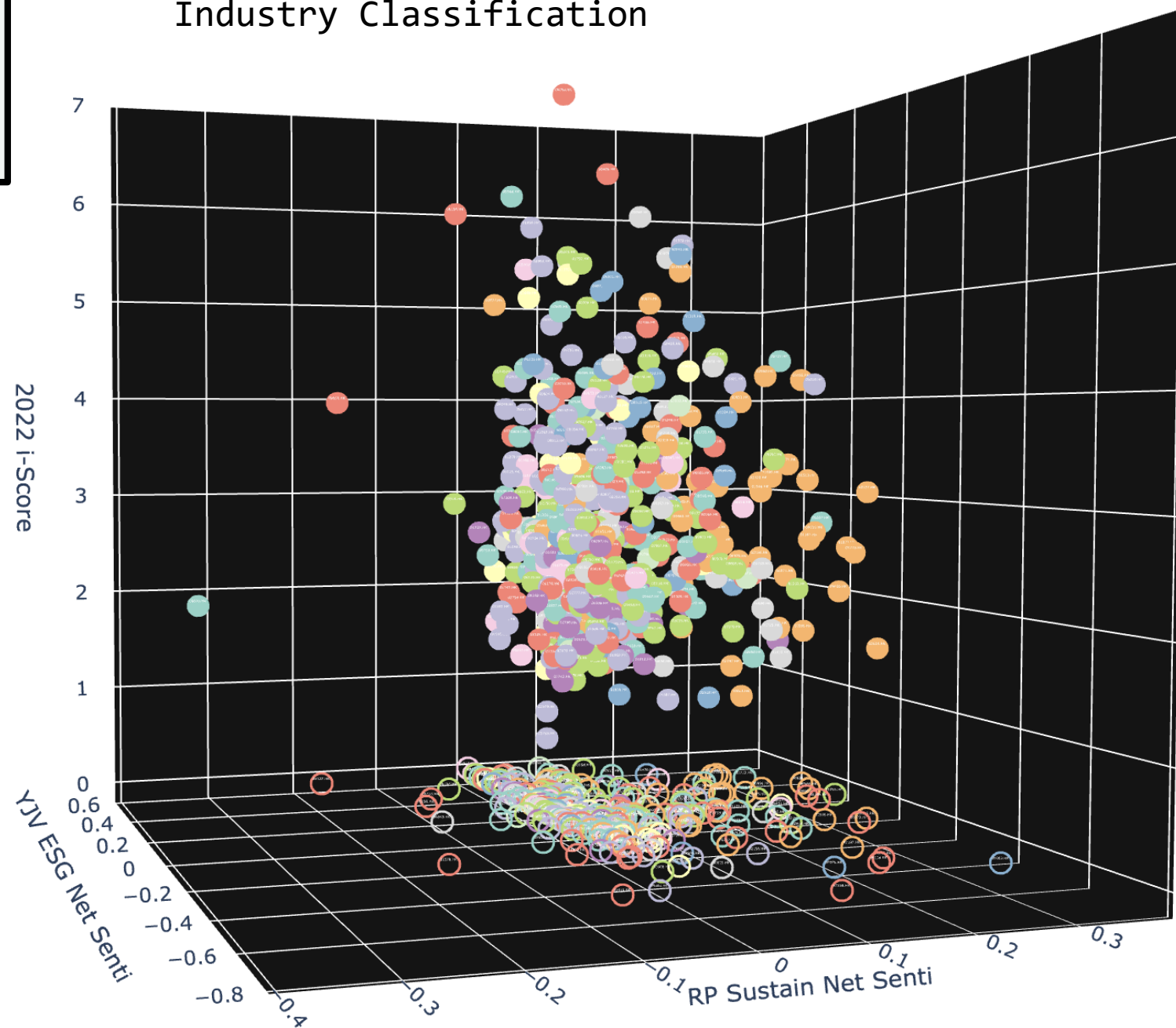


Figure 1A.i-Score Entity 02269.HK's Performance

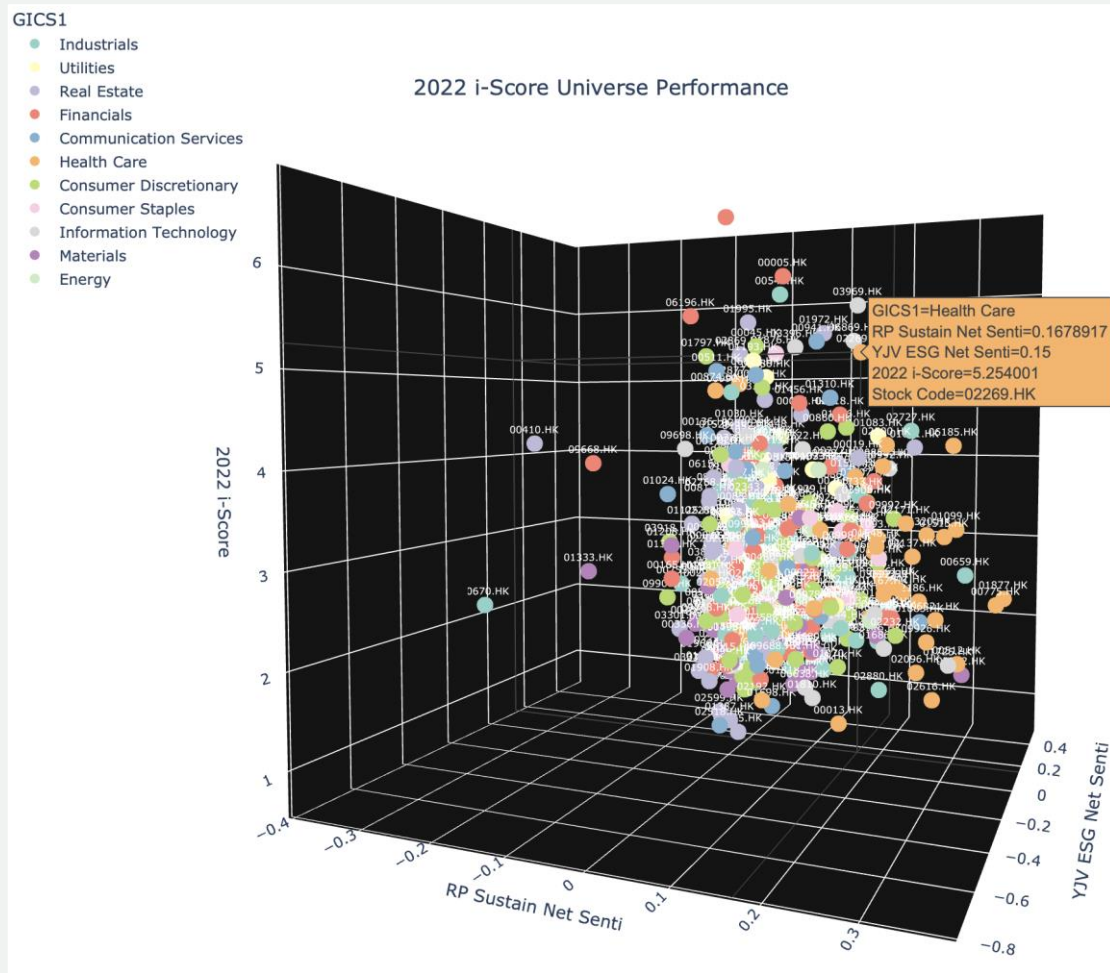


Figure 1A implies most of 2022 i-Score entities lie in the positive zone of RavenPack sustainability sentiment average score and Youjivest net ESG score. In addition, we showcase stock (02269) which has superior performance in all three dimensions.

Figure 1B.i-Score Entity 01797.HK's Performance

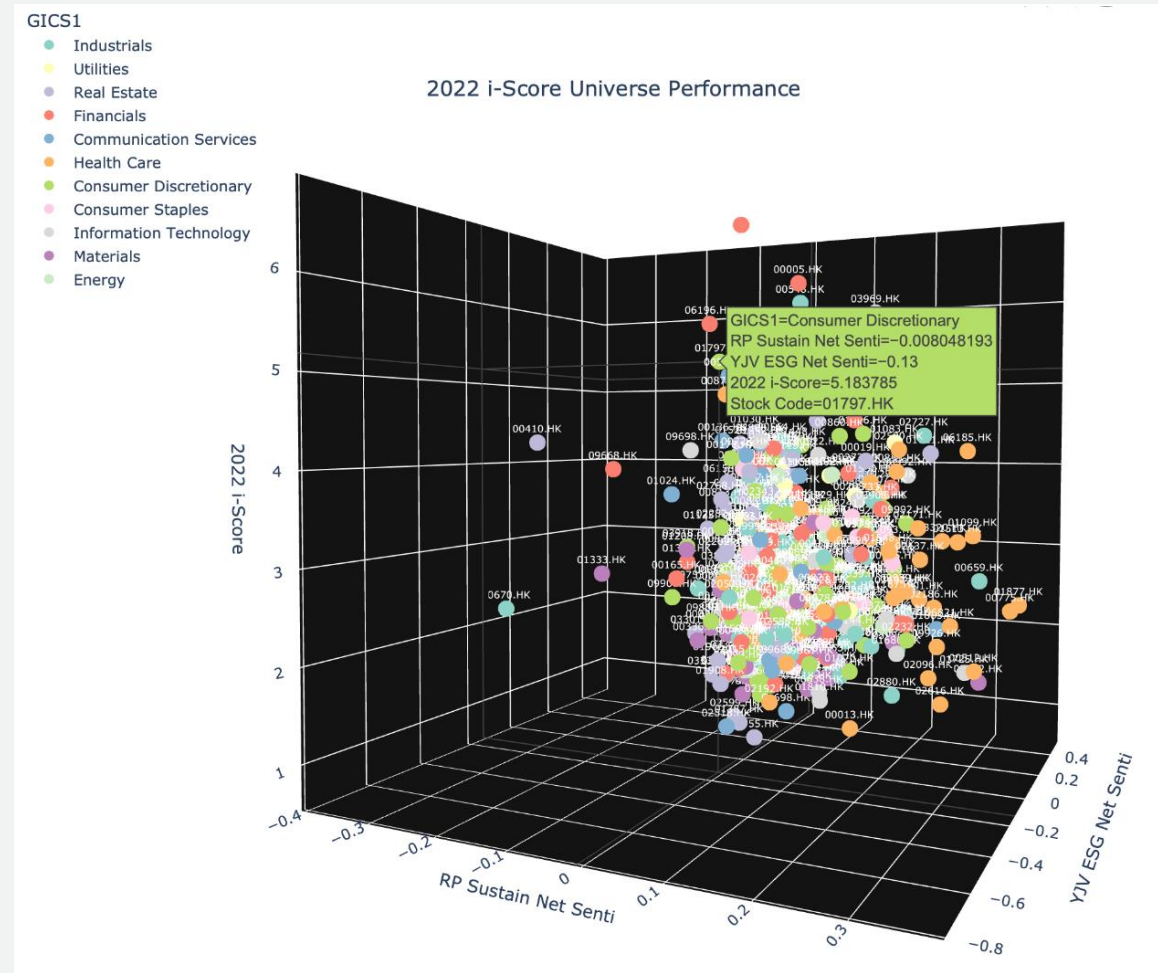


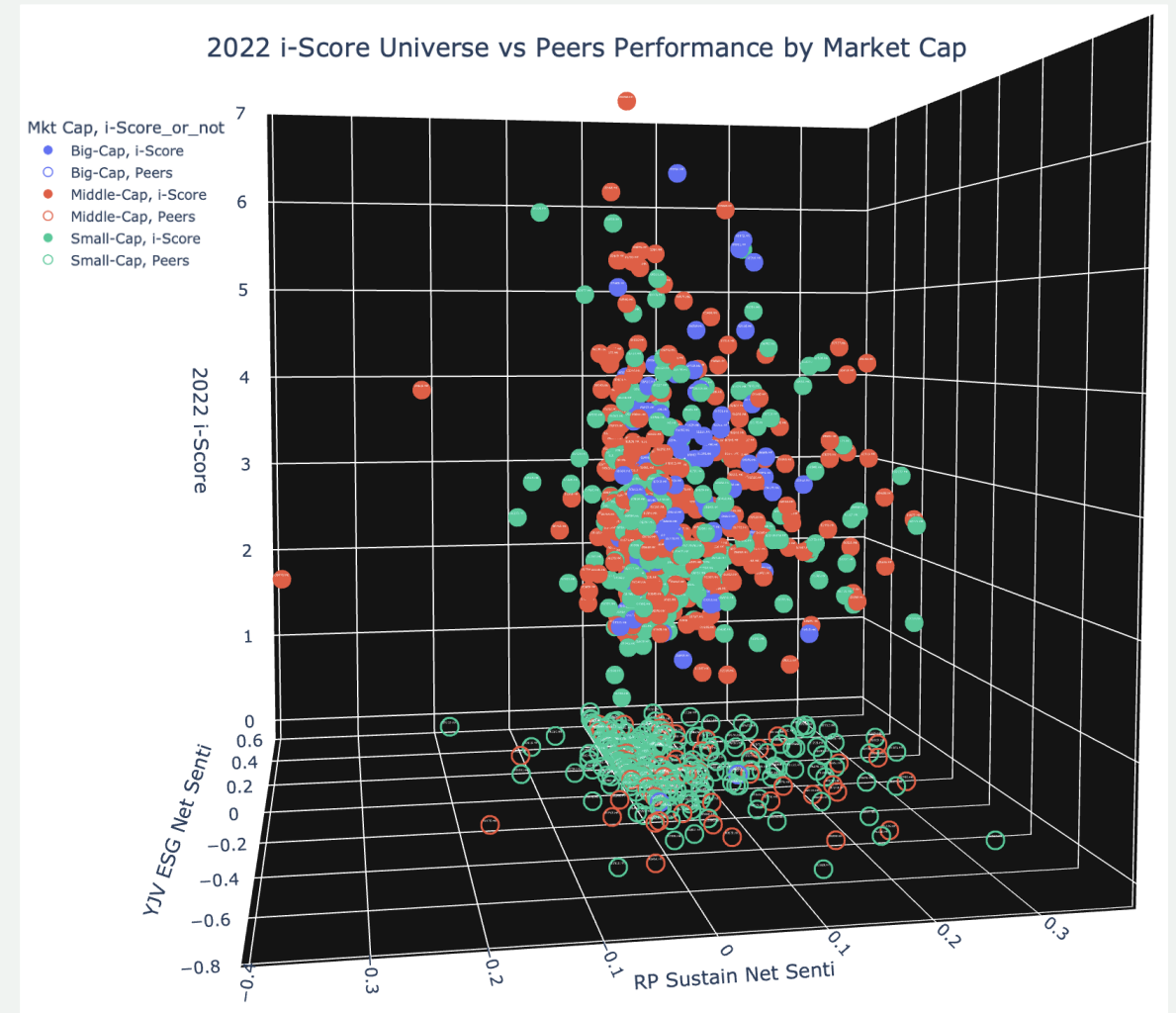
Figure 1B shows the i-Score universe with the same format for the three dimensions. However, we choose stock (01797) to reflect that high i-Score performance does not always mean better sentiment performance.



Figure 2 shows the 2022 i-Score universe entities' (circles colored by 3 different market cap groups, **511 entities**) performance distribution including i-Score and 2022 non i-Score entities' (peer entities which mkt cap>HKD 2bn at the end of 2022, hollow circles colored by 3 different market cap groups, **334 entities**).

(Large-cap entities are market cap larger than HKD100 billion, mid-cap entities are market cap lies in between HKD 10 billion to HKD 100 billion, and small-cap entities are market cap smaller than HKD 10 billion.)

Figure 2 reflects that i-Score covers most of the large-cap entities. These large-cap entities are **more condense in the positive zones** of RavenPack sustainability net sentiment and Youjivest ESG net sentiment score **than** mid-cap and small-cap entities. In addition, the percentage of small-cap entities lie in the negative zone of RavenPack sentiment and Youjivest sentiment is higher than those under large-caps and mid-caps.



About Research Centre for ESG (CESG)



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OF HONG KONG



Established in 2022, the Research Centre for ESG at HSUHK was created to conduct ESG research funded by the Research Grants Council (RGC) of Hong Kong. Currently the Centre has developed four research components:

- 1) Incorporating social returns into the ESG integration process
- 2) Improving KPIs of ESG reporting for listed firms
- 3) Measuring consumer satisfaction on ESG performance
- 4) Enhancing the effectiveness of strategic corporate communication on ESG effort for Listed firms.

~ Thank you ~



To learn more about ESG, please visit our Centre: <https://esg.hsu.edu.hk/>

