



Cutting-Edge ESG Data | Advancing Sustainability

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About YoujiVest

Founding

Founded in 2017 with four offices in Hong Kong, Beijing, Shanghai, and New York to support responsible investment and climate solutions in China

Team

Core team consisted of engineers and finance practitioners from Chinese Academy of Sciences, Tsinghua Univ., Fudan Univ., UC Berkeley with decades of ESG product experience serving BlackRock, State Street, Nomura, Allianz and more

Expertise

Combining AI and deep learning techniques to build ESG Ratings, Carbon/Environmental Metrics, and Climate Models native to Greater China

Solutions

Methodologies and data products co-developed with Cross-strait Tsinghua Research Institute to address China's most pressing sustainability issues for investors, corporates and state agencies

Signatory of:



Signatory to United Nations Principles for Responsible Investment (PRI)



Declaration to support Task Force on Climate-Related Financial Disclosures



Our Mission



We believe companies' ESG behaviors not only impact their own performance, but also contribute to the well-being of the economy and the overall sustainability of society.

We are founded to provide the most trusted, bias-free, and innovative data solutions tailored to China's ESG and climate applications for investors, corporates, and policy makers.



Partnership with Leading ESG solution providers

Strategic partnerships established with YoujiVest to provide a full suite of ESG and climate carbon solutions including data, fund product design, investment framework construction and more!



A series of co-branded China Carbon-focused and ESG indices will be launching soon

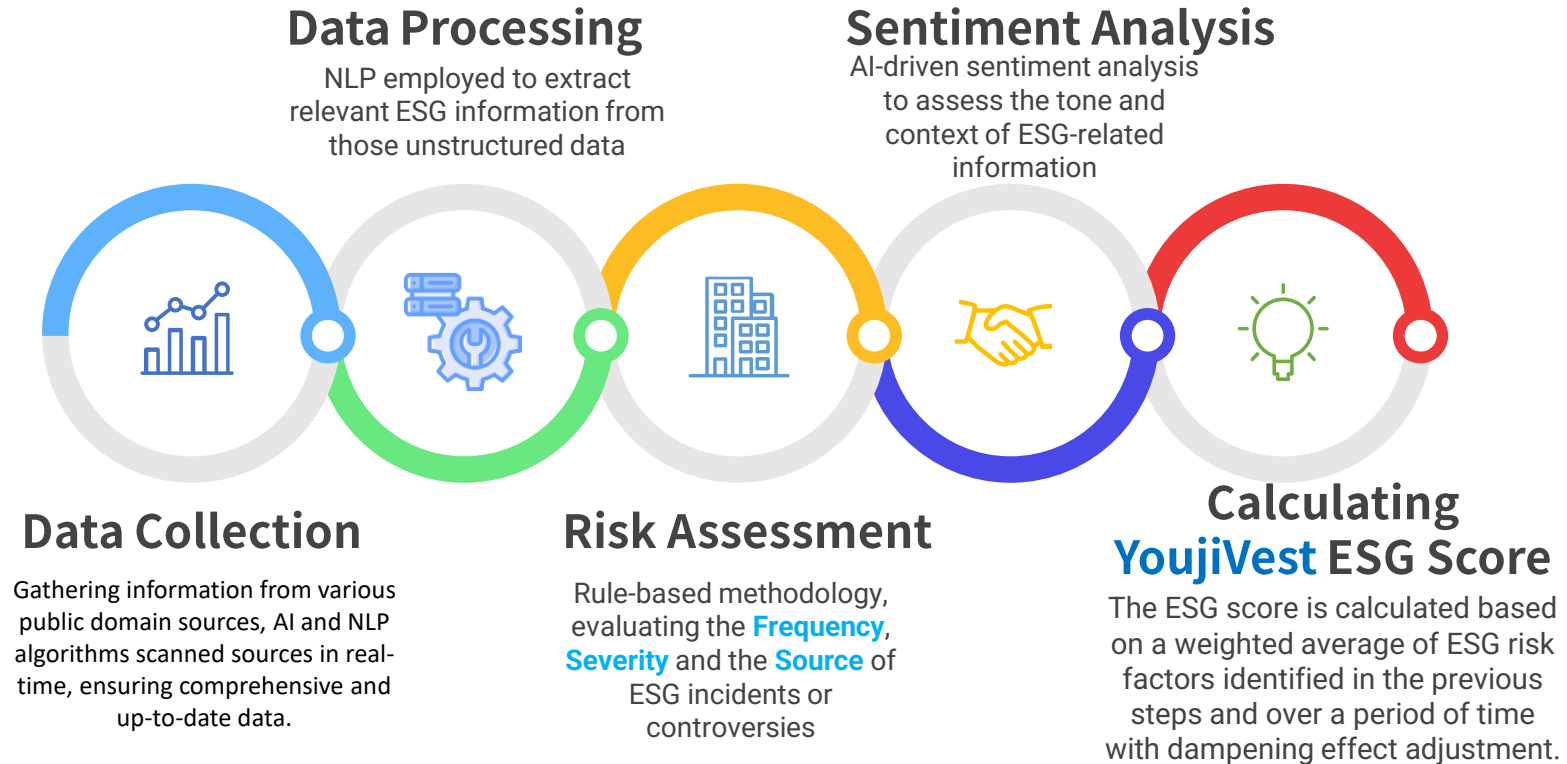


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YoujiVest Sentiment Analysis General Flow



China ESG Risk Scores (CERS)

ESG Risk Scores calculation are based on deploying NLP/ML techniques to over 10000+ sources of mainstream news, annual reports, NGO reports, CSR, social media, regulatory disclosures, penalties announcement, etc.

Documents are parsed, processed, and analyzed to detect ESG relevancy; then decomposed and flagged to various ESG sub-issues and topics for further scoring. Our focus is on the “negative” of events and sentiments to optimize risk signals and minimize “greenwashing.”

Advantage

- Unmatched comprehensive China coverage; granular ratings scale at 9 risk categories
- Data focused on real-world investment applications, with close to real-time update
- Able to flag “most risky” stocks before major blow up
- Objective and quantitative metrics ideally suited for quantitative evaluation on any green finance projects

Coverage

- All China A-shares and 95% market cap coverage for HK securities and ADRs
- 600K+ private companies, bond issuing entities
- Updated weekly and monthly
- History from 2015 (raw data from 2012)

China ESG Risk Scores Methodology

Rating methodology are aligned with global standards such as UN PRI, UN SDGs, UN Global Compact and SASB, but also tailored for China's own unique corporate and cultural characteristics

Sample Issues

#	Level 1	Level 2
E01	E	Animal Treatment
E02	E	Global Air Pollution/GHG
E03	E	Ecology & Biodiversity
S01	S	Child Labor
S02	S	Employee Discrimination
S03	S	Forced Labor
G01	G	Unfair Competition
G02	G	Corruption
G03	G	Executives Issues/ Shareholder Rights
M02	M	Supply Chain Issues
M04	M	Health Hazards

ESG Issues & Topics



- **Not** dependent self-disclosure
- **Anti** greenwashing
- **10000+** data sources
- **9** classification levels
- **Weekly** updates
- **2015** coverage inception

Luckin Coffee ESG Case Study – Financial Fraud

YoujiVest’s China ESG Risk Scores (CERS) identified such “Governance” risk in advance



Luckin Coffee was a publicly traded company IPO as an ADR on NASDAQ on May 17, 2019. The company was founded in Beijing in 2017 and quickly became China’s second largest coffee chain based on the number of stores and cups of coffee sold.

Luckin’s retail model heavily leverages technologies and big data, enabling customers to transact entirely via its apps for a fast and seamless experience. On June 26, 2020, it was delisted from the NASDAQ due to failure to file its annual report and has since traded Over-the-Counter (OTC).

Luckin Coffee ESG Rating Case Study

YoujiVest's CERS vs Major ESG Rating Firms

Date	YoujiVest ESG*	ESG Rating Firm A**	ESG Rating Firm B***
May 31, 2019	58	No Coverage	No Coverage
Dec 31, 2019	62	No Coverage	No Coverage
Jan 31, 2020	54	No Coverage	No Coverage
Mar 31, 2020	53	No Coverage	No Coverage
Apr 30, 2020	94	CCC	No Coverage
Jul 31, 2020	100	CCC	No Coverage

* YoujiVest ESG Low Risk = 0-25; Medium Risk = 26-50; High Risk = 51-75; Very High Risk = 76-100

** ESG Ratings range from AAA to CCC for a total of 7 categories. AAA, AA = Low Risk; A, BBB, BB, = Medium Risk; B, CCC = High Risk

*** ESG Ratings range from Very Low Risk, Low Risk, Medium Risk, High Risk and Very High Risk

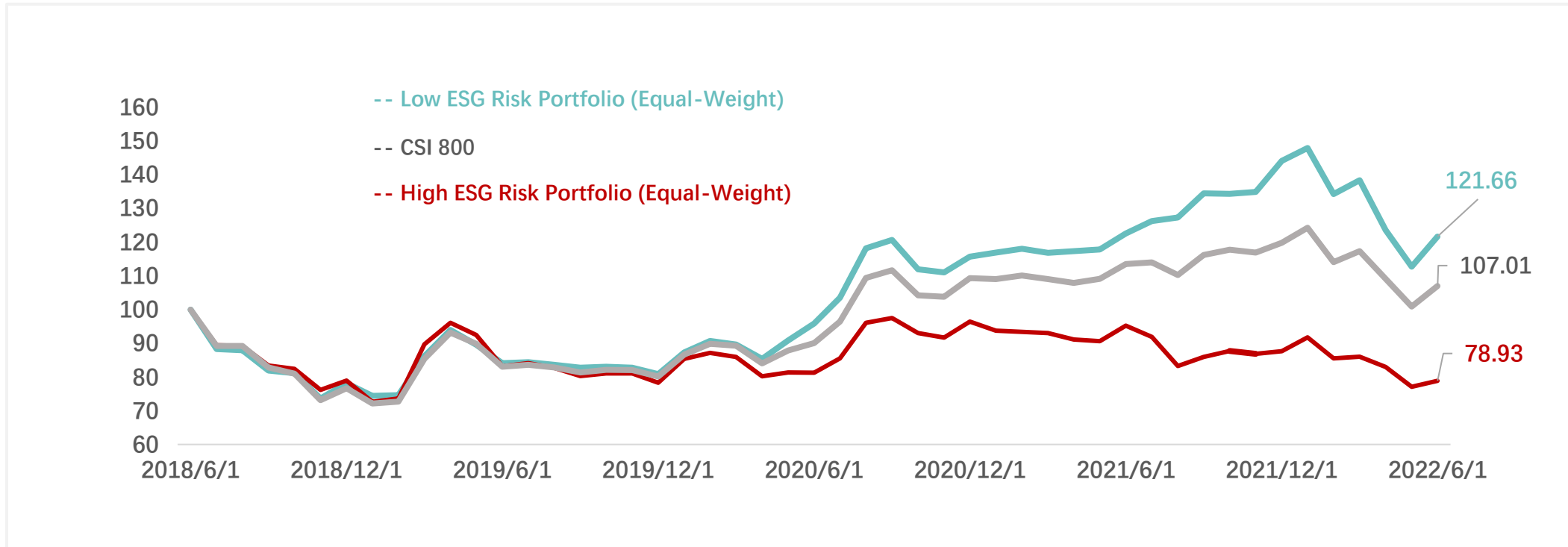


YoujiVest already flagged Luckin as High ESG Risk (>50) in 2019, several months before Muddy Waters issued its negative short report on January 2020.



Luckin did not have any ESG ratings data from 2 major ESG rating firms until March 31, 2020, and only on April 30, 2020 did Firm A issue “CCC.” But by then Luckin had fallen 75% and it was too late for investors to mitigate such ESG risk.

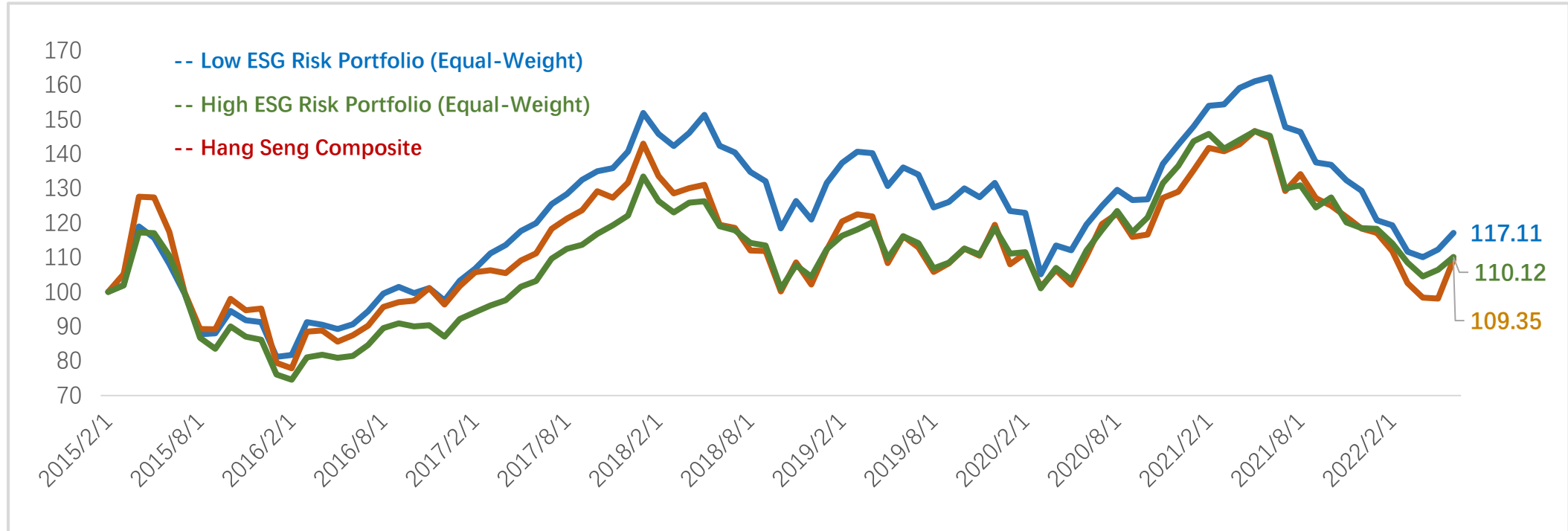
YoujiVest CERS Portfolios vs. CSI 800 (June 2018-June 2022)



	Low ESG Risk Portfolio	High ESG Risk Portfolio	CSI 800
Total Returns	21.66%	-21.07%	7.01%
Annual Returns	5.02%	-5.74%	1.71%
Annual Volatility	20.88%	20.56%	20.06%
Max. Drawdown	-26.32%	-27.36%	-27.84%
Sharpe Ratio	0.11	-0.42	-0.05



YoujiVest CERS Portfolios vs Hang Seng (Feb 2015- Aug 2022)

(Market Cap USD\$300 Million or greater)



	Low ESG Risk Portfolio	High ESG Risk Portfolio	Hang Seng Composite
Total Returns	17.11%	9.35%	10.12%
Annual Returns	2.17%	1.23%	1.32%
Annual Volatility	18.20%	22.15%	18.03%
Max. Drawdown	-32.15%	-38.98%	-36.42%
Sharpe Ratio	0.04	-0.01	-0.01

HSU Project Introduction

- Source universe: Social media and Mainstream news
- Time Frame: **Jan 2022 to March 2023.**
- Number of news:
 - Mainstream news **1171747**
 - Social Media: **1113143**
- Description of the project:
 -  Project Goal: Provide higher frequency sentiment signal to HSU I-Score with YoujiVest ESG Risk Score
 -  Tasks and Challenges:
 - ✓ Methodology change to include positive sentiment
 - ✓ HK focused news sources with different language style
 - ✓ Making sense of data outcome

HSU Project Highlights



Adding transformer architecture models to improve full article understanding and sentiment judgement

Large language model added

- Llama (65 billion parameters)
- ChatGPT (175 billion parameters)



Multimodal learning (CNN, RNN) helps combine text with image data and video data.



Adding a series of local news sources, including

Master Insight 灼见名家 (CN)

South China Morning Post 南华早报 (EN)

香港01 (CN)

无线新闻TVB (CN)

on top of existing YoujiVest news sources






Labelling over 100,000+ key words.



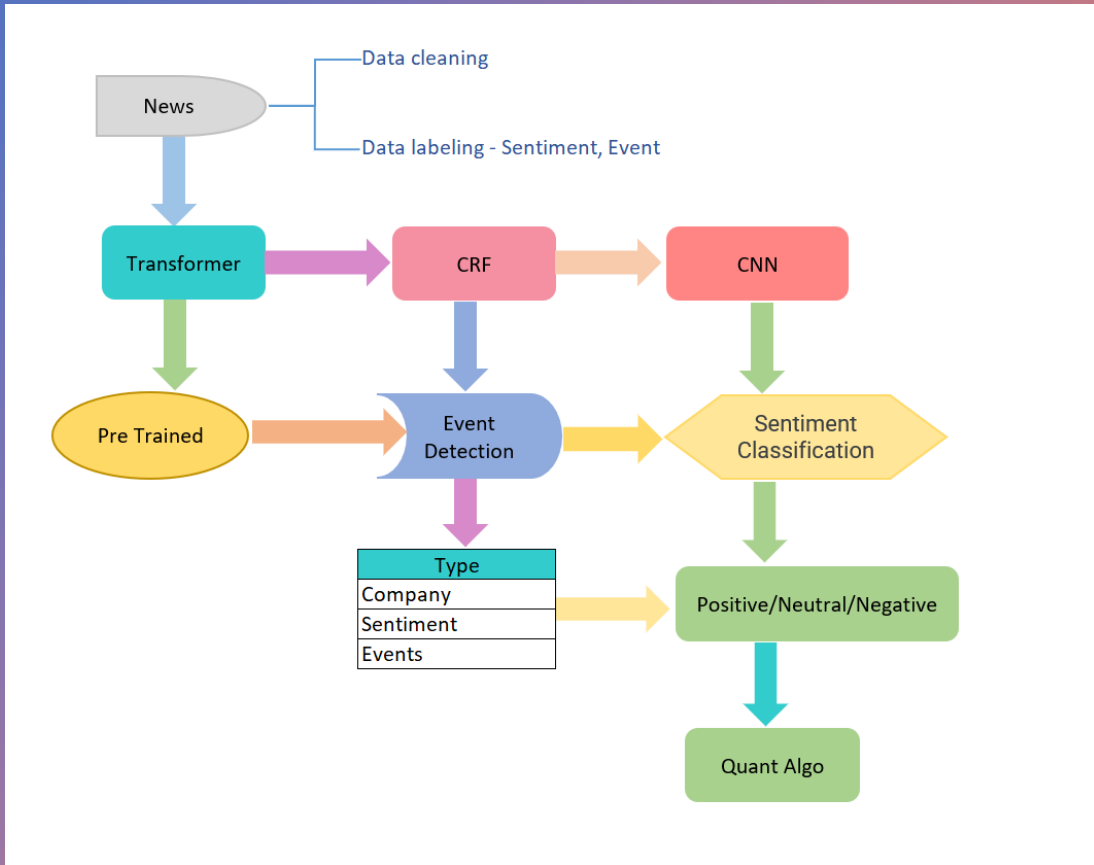
Separate positive sentiment and negative sentiment analysis

Data Processing Flow

A Series of

-  new language models
-  deep learning (CNN+RNN)
-  sentiment analysis technology

embedded during the whole processing flow



Language Models in a glance

- Beginning of the story: **A Neural Probabilistic Language Model**
 - “A goal of statistical language modeling is to learn the joint probability function of sequences of words in a language. This is intrinsically difficult because of the curse of dimensionality ...We propose to fight the curse of dimensionality by **learning a distributed representation for words**”
- Birth of Transformer: **Attention is all you need**
 - “We propose a new simple network architecture, the Transformer, based solely on attention mechanisms, dispensing with recurrence and convolutions entirely”

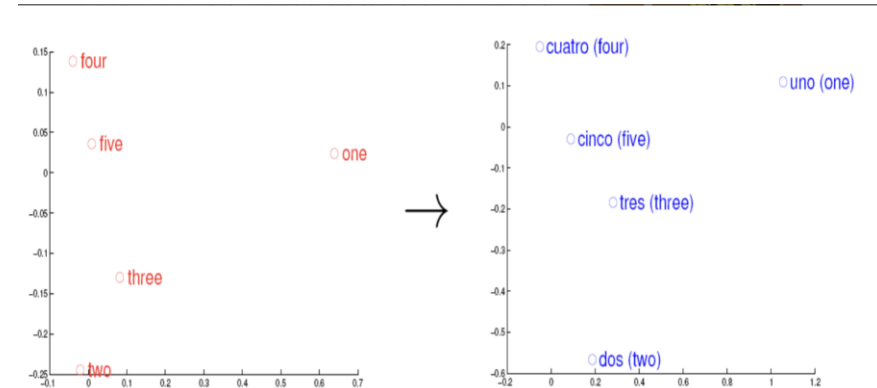
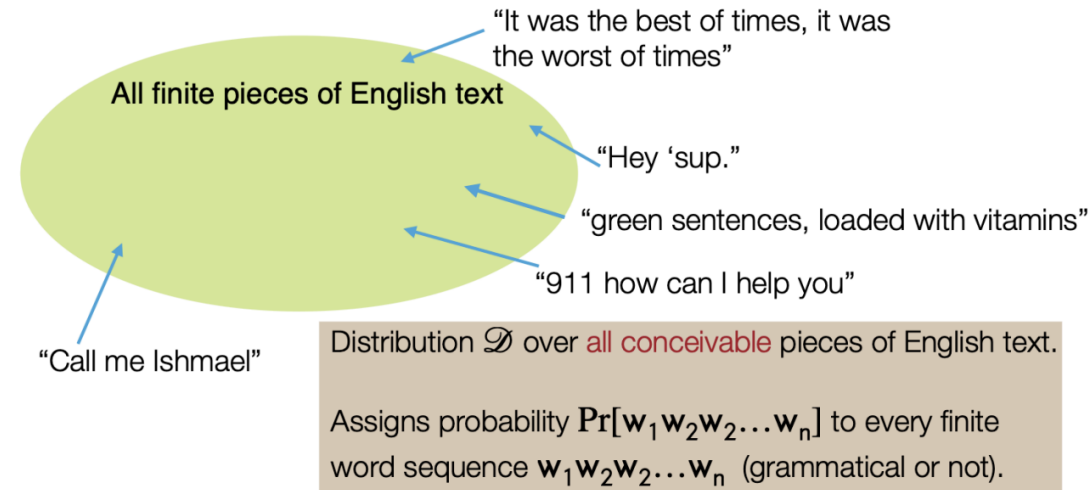


Table 1: Maximum path lengths, per-layer complexity and minimum number of sequential operations for different layer types. n is the sequence length, d is the representation dimension, k is the kernel size of convolutions and r the size of the neighborhood in restricted self-attention.

Layer Type	Complexity per Layer	Sequential Operations	Maximum Path Length
Self-Attention	$O(n^2 \cdot d)$	$O(1)$	$O(1)$
Recurrent	$O(n \cdot d^2)$	$O(n)$	$O(n)$
Convolutional	$O(k \cdot n \cdot d^2)$	$O(1)$	$O(\log_k(n))$
Self-Attention (restricted)	$O(r \cdot n \cdot d)$	$O(1)$	$O(n/r)$

Language Models: Narrow Sense


- A probabilistic model that assigns a probability $P[w_1, w_2, \dots, w_n]$ to every finite sequence w_1, \dots, w_n (grammatical or not)



Source: Princeton CS

Language Models: Narrow Sense

$$p(w_1, w_2, w_3, \dots, w_N) = p(w_1) p(w_2|w_1) p(w_3|w_1, w_2) \times \dots \times p(w_N|w_1, w_2, \dots, w_{N-1})$$

Conditional probability 

Sentence: “the cat sat on the mat”

$$P(\text{the cat sat on the mat}) = P(\text{the}) * P(\text{cat}|\text{the}) * P(\text{sat}|\text{the cat})$$

$$* P(\text{on}|\text{the cat sat}) * P(\text{the}|\text{the cat sat on})$$

$$* P(\text{mat}|\text{the cat sat on the})$$

Implicit order 

Source: Princeton CS

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YoujiVest CRES P

01

China ESG Risk Scores (CERS)

- Quantify overall ESG and 25 sub-issue risks through “sentiment” and “event” analysis
- Outside-in, negative scoring methodology to minimize “greenwashing” risks
- Over 10K+ data sources, including mainstream news, annual/CSR reports, NGOs, government agencies, social media and more
- Real-time monitor and updates leveraging NLP technologies
- Controversial Products (CPBI)
- ESG customised data point

02

China Environmental Pollutant Discharge (CEPD)

- Quantify 600+ discharged pollutants
- Data sourced directly from municipal and provincial sources
- A unique, uncorrelated source of “Environmental” alpha
- Urban city air pollution level real-time monitor, updated hourly

03

China Carbon Emission Metrics (CCEM)

- Compile, normalize and quantify carbon emissions, carbon intensity and footprints
- Data sourced from public, primary sources encompassing Scope 1, 2, 3 GHG emissions
- Carbon emissions estimated for undisclosed companies based on proprietary models
- Aligned with TCFD and ideally suited for portfolio climate risk analysis, reduction and reporting

04

Climate Risk Model Solutions (YoujiCRMS)

- YoujiVest unique scientific-based climate risk model
- Extensive collection of global and local climate data
- Combining with the company's financial indicators to quantify risks
- Covering all RCP-SSP scenario analysis pathways
- Meet the TCFD and various regulatory needs of listed companies and investors
- Quantitative analysis of physical risk and transition risk to formulate corporates’ medium and long-term development goals

China Environmental Pollutant Discharge (CEPD)

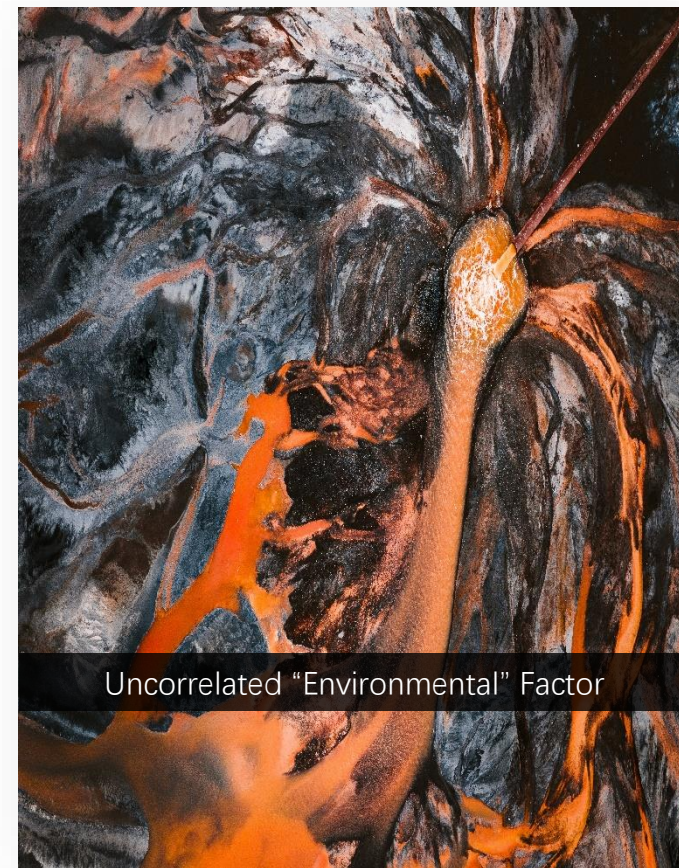
CEPD provides real-time, comprehensive waste discharge data for enterprises operating in all major China municipalities and provinces, and includes 500 +types of pollutants such as wastewater and various gas and solid particulates.

Advantages

- Data originates from real-time monitoring sensors at the provincial and municipal levels, and AI-enabled process allows for automated data acquisition, quality assurance and frequent update
- A differentiated, non-carbon related “Environmental” factor able to detect short to mid-term production activities ahead of wide public awareness – fertile ground for alpha discovery
- Cities’ real-time air pollution profiles that are highly correlated to company production capacity

Coverage

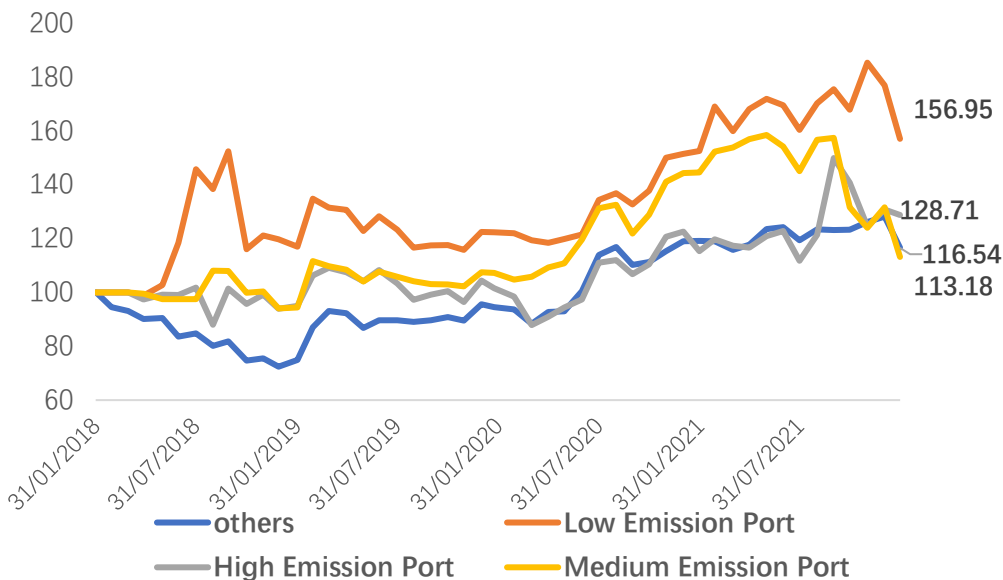
- 2600+ China publicly listed company covered; sourced and aggregated from all provinces
- Granular discharge data available for over 400,000 unlisted, private companies
- Data collected daily, sanitized/updated monthly; urban pollution levels updated hourly
- Data history since 2014



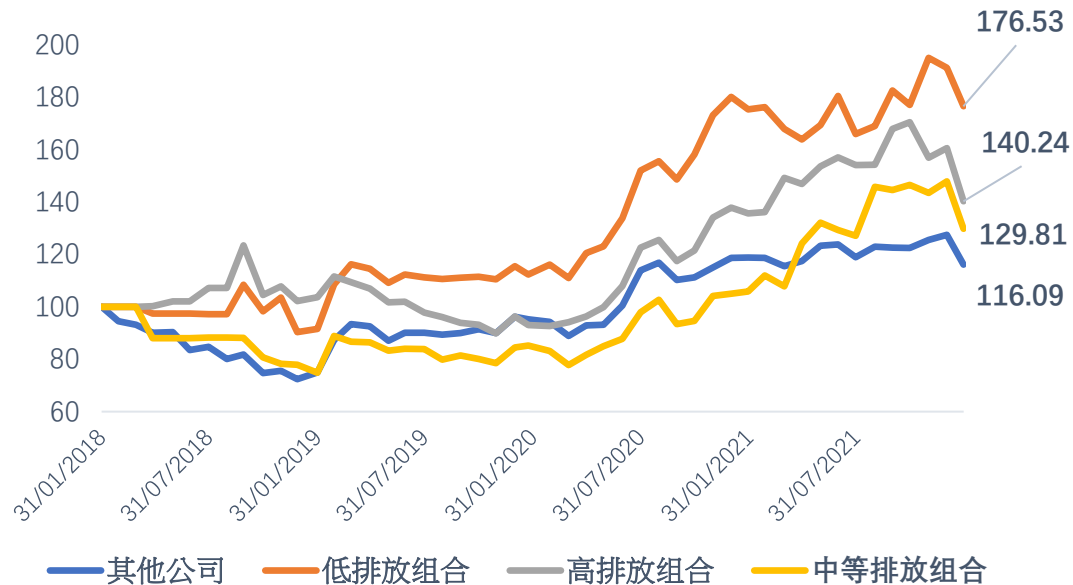
China Environmental Pollutant Discharge (CEPD)

CEPD can be seen as 'E' fundamental data to contribute excess return

Air pollutant discharge backtesting



Solid particulates group backtesting



China Carbon Emission Metrics (CCEM)

Carbon is the primary factor used by all stakeholders for analyzing climate risks and achieving China's Dual Carbon Goals



Carbon is universally recognized as the most important climate risk determinant

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Advantages

- Scope 1, 2 and 3 disclosed carbon data sourced, sanitized, compiled from public sources: annual filings, CSR reports, company websites, etc.
- Normalized Carbon Intensity (CI) and Carbon Footprint (CP) for all disclosed and estimated company carbon emission data
- Easily aggregated into industries/regions/other groupings for portfolio and institutional level climate risk analyses, research, reporting and compliance
- Address large coverage gap for China equities

Coverage

Disclosure data:

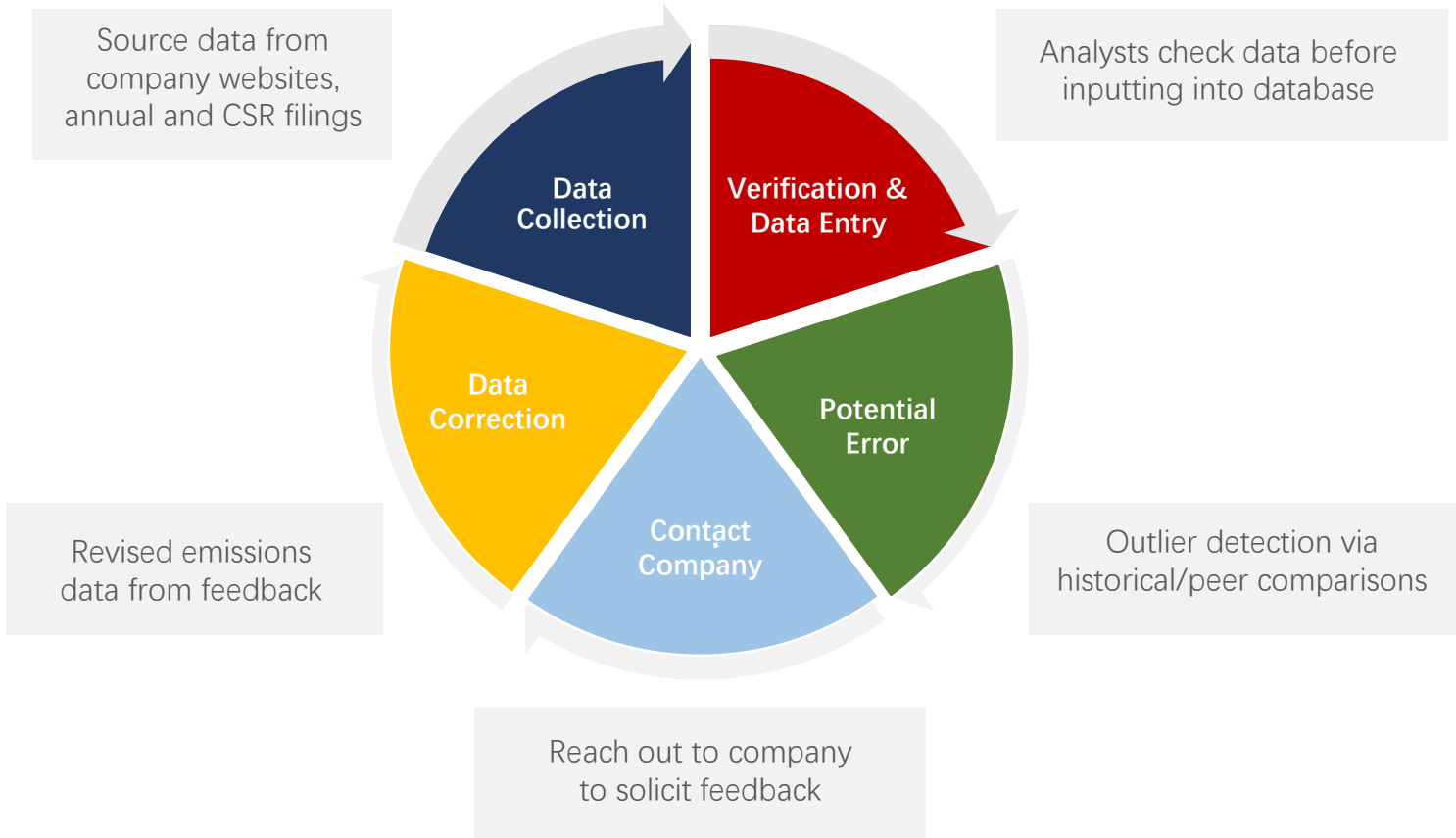
2700+ China A-shares, Hong Kong securities and ADRs, 1000+ Taiwan listed securities

Estimate data:

Full coverage for both equity and 4000+ bond issuing enterprises

- Disclosed data at least once annually to align with company reporting; estimated data model update semi-annually
- Data history from 2006; more comprehensive coverage from 2017

Disclosed Carbon Emissions Collection



Data Sample

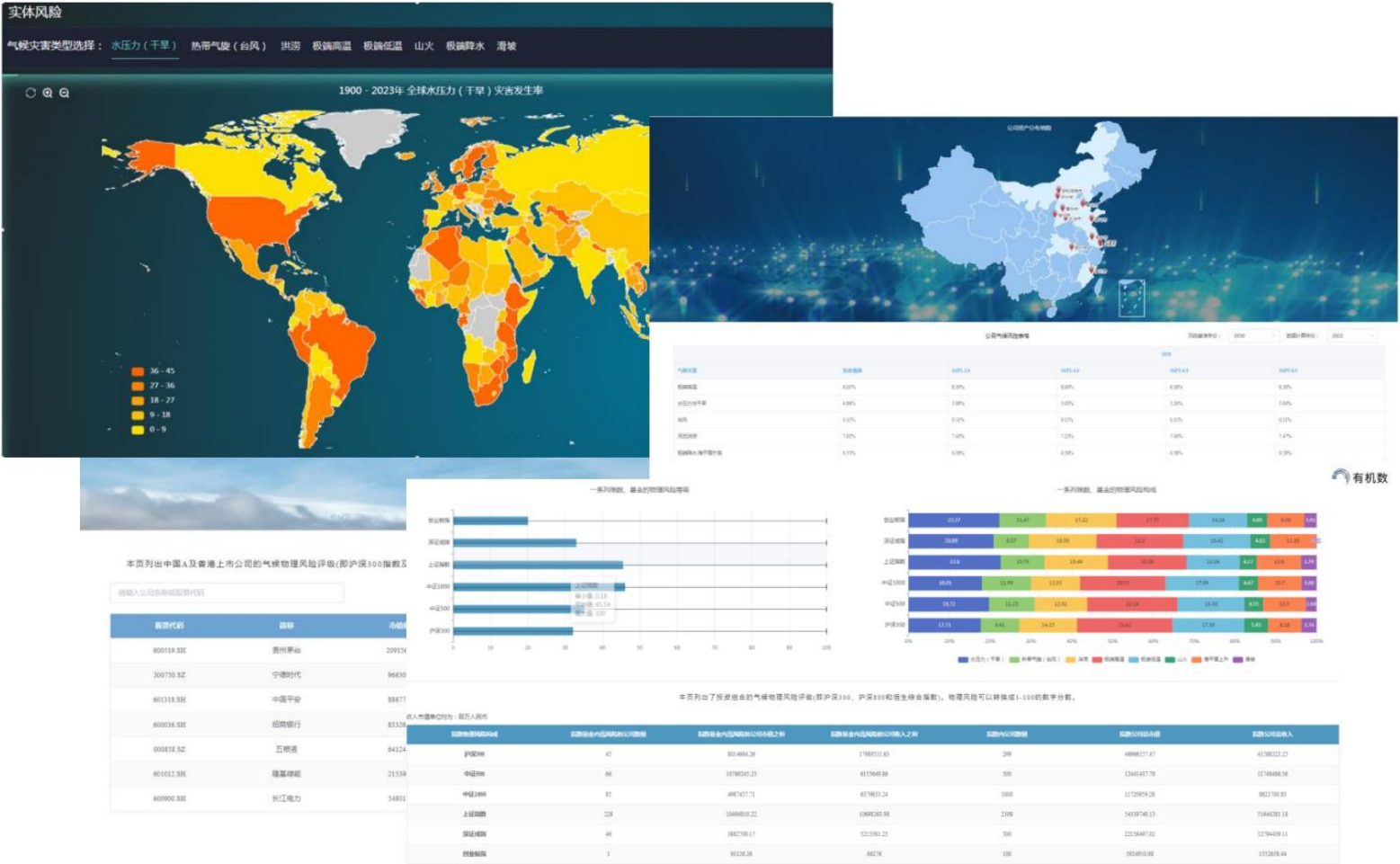
COSCO	Amt	Unit
Carbon Emissions	22,214,824	tCO ₂ e
Carbon Intensity	66,572	tCO ₂ e/\$Mil Sales (RMB)
Carbon Footprint	82,056	tCO ₂ e/\$Mil MktCap (RMB)
Scope 1	22,198,758	tCO ₂ e
Scope 2	16,066	tCO ₂ e
Nitric Oxides	522,229	tCO ₂ e
Sulfur Oxides	132,479	tCO ₂ e
Other Particles	47,066	tCO ₂ e

- **2700+ China/HK companies covered**
- **1000+ Taiwan companies covered**
- **Most comprehensive China/HK/TW coverage in the marketplace**

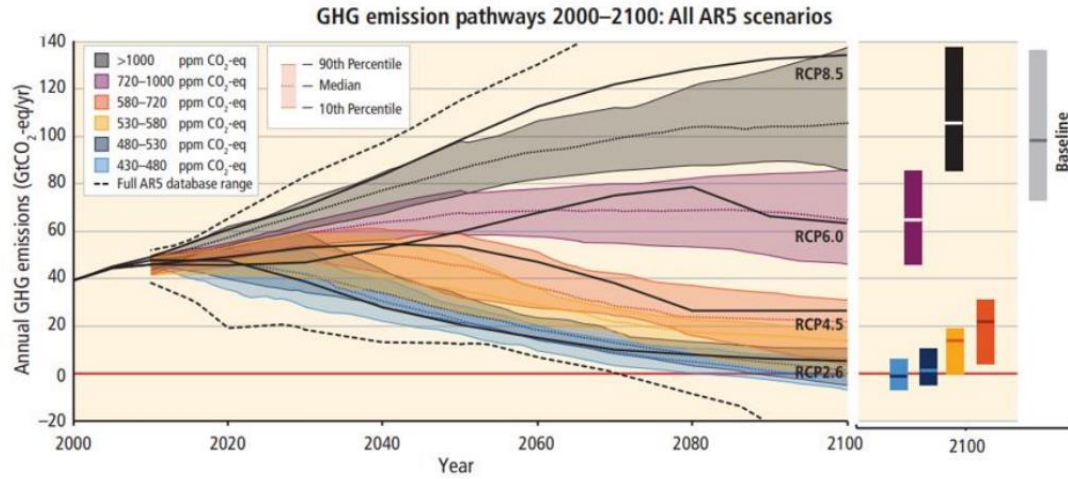
YoujiVest CCM platform provides comprehensive Physical Risk and Transition Risk analysis based on the actual asset locations.

Identify the risks that climate change brings to your business and prepare a risk management plan that deals with climate change

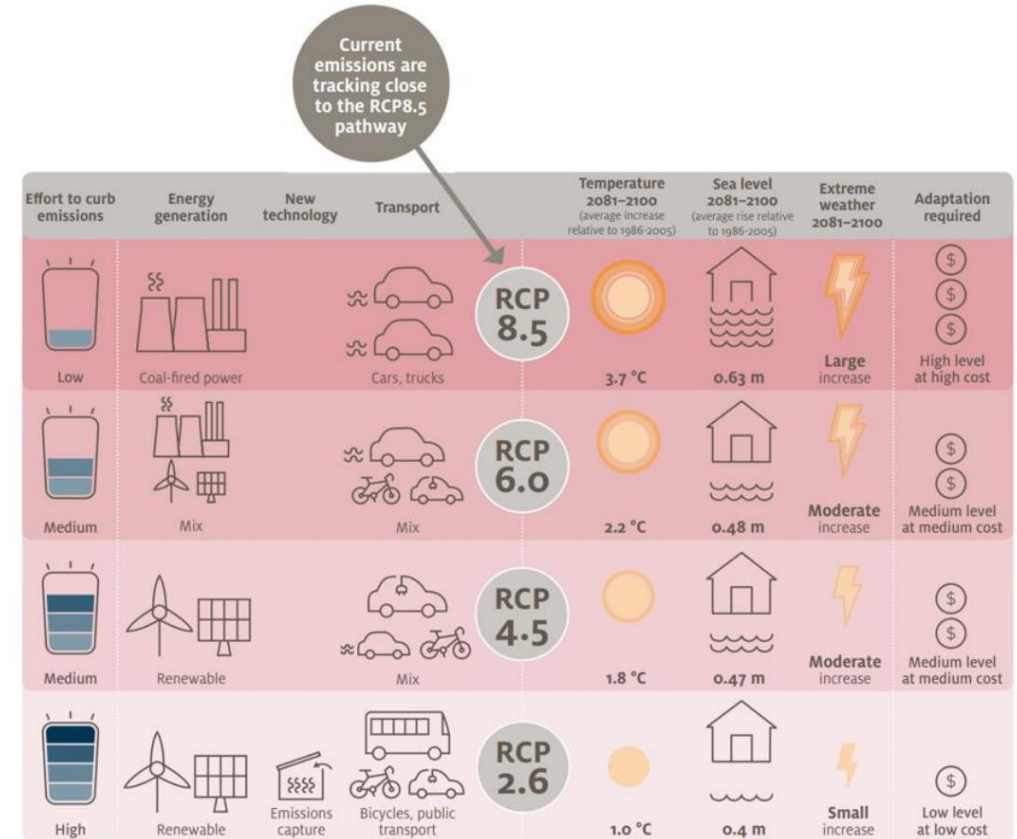
YoujiVest China Climate Model



Scenario Analysis – IPCC: RCP+SSP



Representative Concentration Pathway (RCPs)



The Shared Socio-Economic Pathways (SSPs)

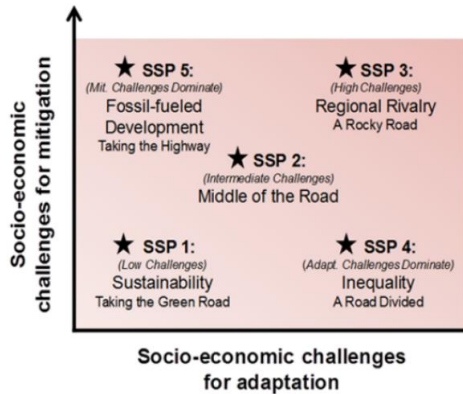


Fig. 1 Overview of SSPs

(Narratives in O'Neill et al., 2016, Glob Env Change, online first)

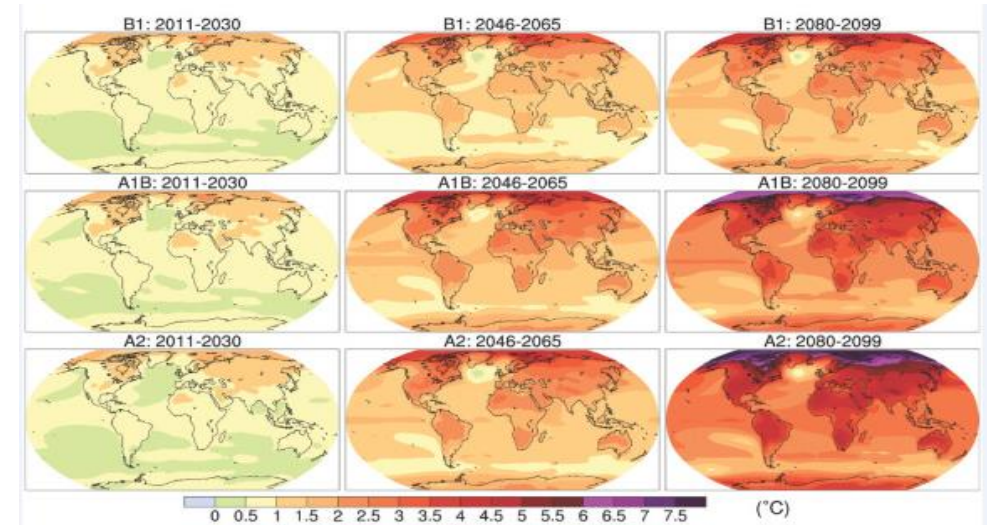
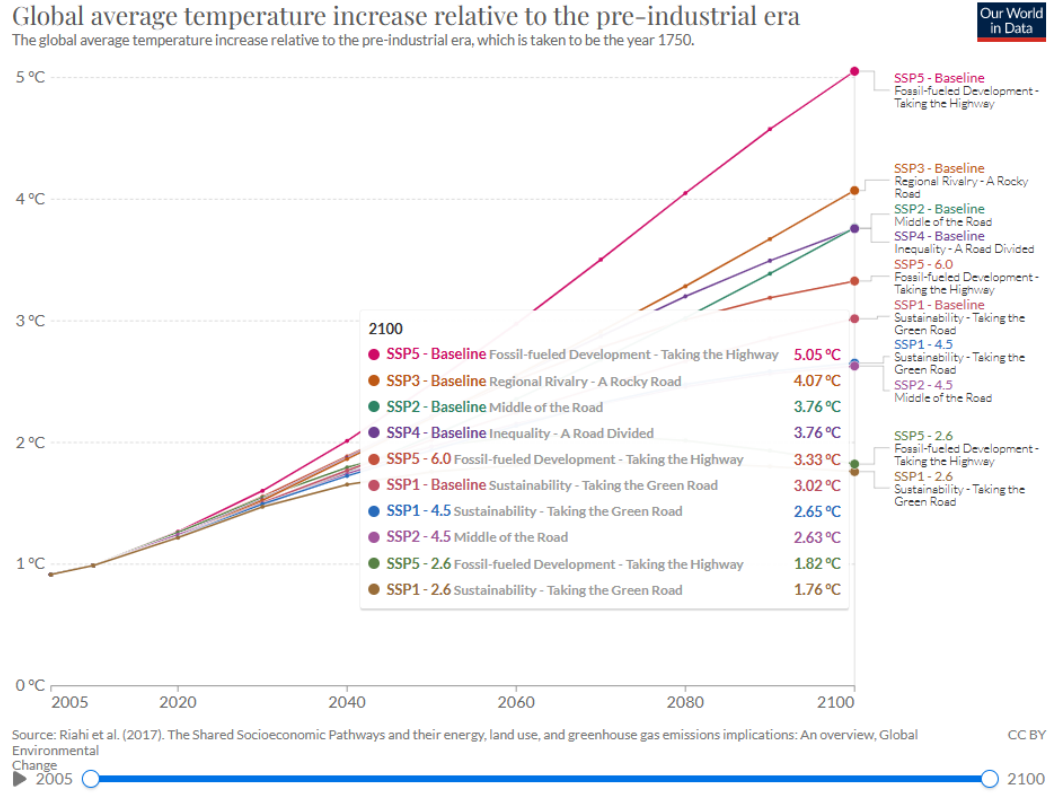
SSP1: low challenges for mitigation (resource efficiency) and adaptation (rapid development)

SSP3: high challenges for mitigation (regionalized energy / land policies) and adaptation (slow development)

SSP4: low challenges for mitigation (global high tech economy), high for adapt. (regional low tech economies)

SSP5: high challenges for mitigation (resource / fossil fuel intensive) and low for adapt. (rapid development)

Scenario Analysis – IPCC: RCP+SSP



YoujiVest considers different RCPs + SSPs combined Pathways

YoujiVest Climate Risk Model Solution(YoujiCRMS)

TCFD: Scenario Analysis

YoujiVest covers all 4 RCPs and 5 SSPs Pathway scenarios

RCP2.6 RCP4.5 RCP 6.0, RCP8.5

A series of IPCC hazards:

Water Stress, Tropical Cyclones, Floods, Extreme high temperatures, Extreme low temperatures, Wildfires, Landslides, Sea Level rise, etc.

YoujiVest provides a set of measures to indicate the climate risk of each company under different scenarios. These indicators can include the impact analysis for physical risk, policy risk, and transition risk, etc.



公司气候风险表格 风险基准年份: 2030 数据计算年份: 2022

气候灾害	历史基准	2030			
		SSP1-2.6	SSP2-4.5	SSP3-6.0	SSP5-8.5
极端高温	6.03%	6.39%	6.40%	6.38%	6.20%
水压力与干旱	4.88%	5.09%	5.02%	5.20%	5.04%
台风	0.11%	0.11%	0.11%	0.11%	0.11%
河流洪涝	7.02%	7.43%	7.23%	7.30%	7.47%
海平面上升	0.55%	0.56%	0.58%	0.58%	0.58%
山体滑坡	0.20%	0.21%	0.20%	0.21%	0.22%
山火	1.35%	0.00%	0.00%	0.00%	0.00%
极端低温	11.26%	11.54%	11.71%	11.68%	11.64%

ESG Data Solutions Built for Institutional Investors

Risk Management

- Create climate (GHG) and ESG portfolio risk reports and individual stock red flag alerts
- Align and meet global and domestic ESG regulations and reporting requirements, including TCFD



Investment Research

- Comprehensive data coverage/history for all China/HK/ADR securities to address both individual stock or sector research needs
- YoujiVest ESG data integrated into Exabel web-enabled platform with powerful visual charting, screening and back-testing tools

Product Development

- Our vast experience in oversea ESG fund development can support you from idea inception to launch
- Ideally suited for building Active, Passive, Index-enhanced and Thematic ESG funds

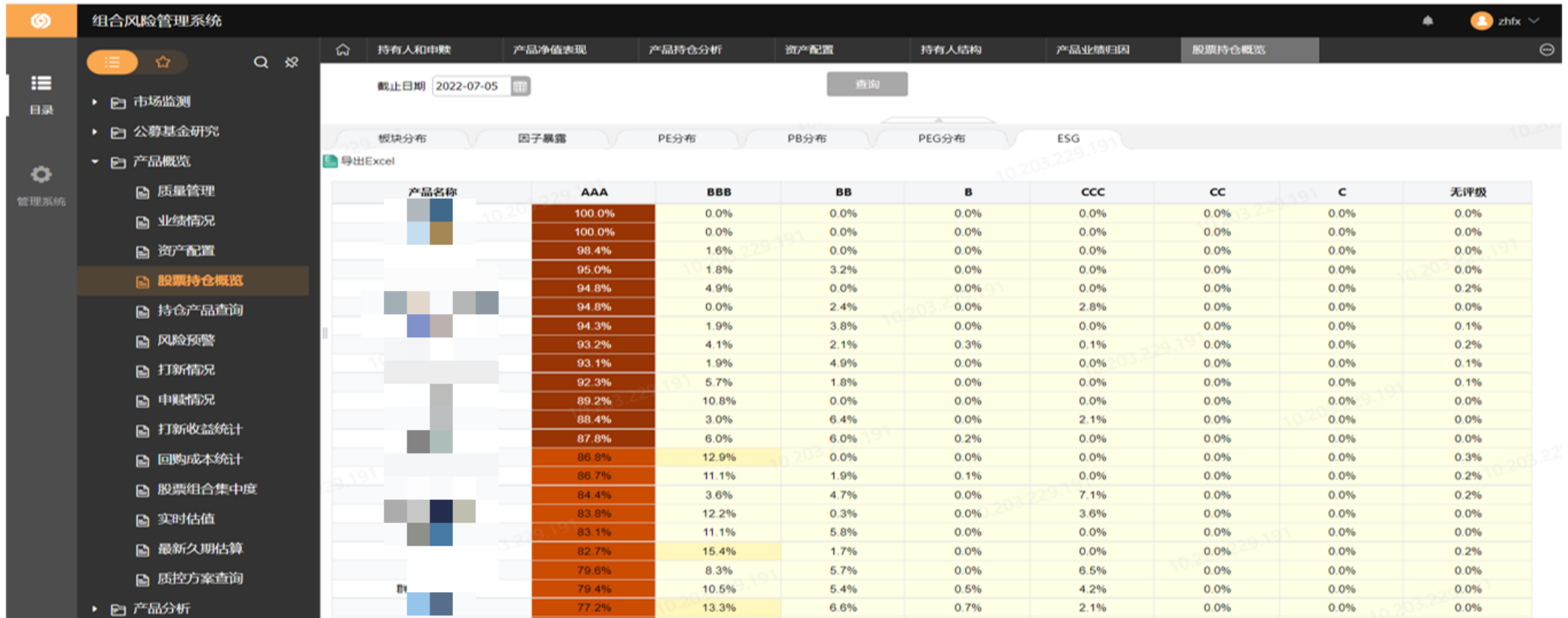


Quant & Indexing

- YoujiVest ESG data can be seamlessly integrated into client's existing quant environment via automated FTP protocols
- Our data experts can assist with quant/index strategies formulation and back-testing

ESG Fund Risk Rating Reports

Our comprehensive ESG coverage allows for effective, firm-level ESG ratings aggregation to capture any fund's ESG risks at the portfolio level, as well as enabling the integration of ESG risks into your firm's overall risk management framework



ESG Company Risk Rating Reports

In-depth ESG reports for peer benchmarking and industry analyses

公司 ESG 简报

中国铝业集团有限公司 (601600.SH)

2020-12-31

公司简介

市值 565.90亿
营业收入 1860亿
员工数 63,007
行业 有色金属
国家 中国
财年 2020-12-31



ESG 概况

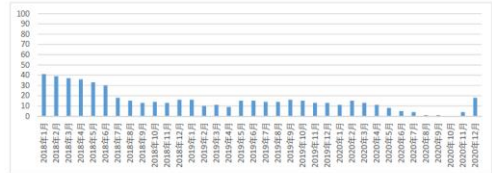
中国铝业是中国有色金属行业的龙头企业，综合实力位居全球行业前列，也是中国铝业唯一集铝土矿、煤炭等资源勘探开采、氧化铝、原铝和铝合产品生产、销售、技术研发、国际贸易、物流产业、火力发电、新能源发电于一体的大型综合性企业。
有机数ESG分数据一家公司在ESG相关领域的风险等级。
分数越高则风险越低，分数分布为0-100分。
过去一年，公司的平均ESG风险分为21.8，中位数为18，评级为A级。
2020年12月31日ESG总分为18，评级为A级，ESG相关风险处于较低水平。
2020年ESG总分主要来自舆情风险来自公司治理方面。

公司相对表现

截至2020/12/31，所有公司中ESG总分为最高为91，中国铝业ESG总分18，排名3396；有色金属板块公司中ESG总分为最高为60，中国铝业ESG总分在同行业中排名第98，排名情况较差。

所有公司最高分	所有公司	A股公司	A股有色金属	中国铝业排名	A股铝
91	91	60	60	98	23
E评分	70	37	37	17	17
S评分	55	45	14	6	6
G评分	91	89	60	129	129
M评分	61	54	14	0	0

历史ESG表现比较

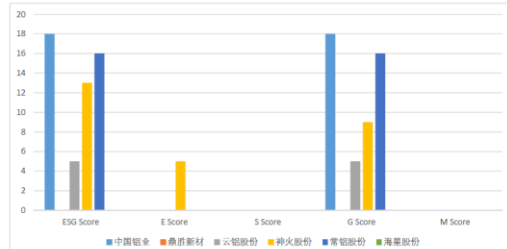


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同行公司比较

与业务相近的几家有色金属行业公司进行比较。

	601600.SH 中国铝业	603876.SH 嘉辰新材	000807.SZ 云铝股份	000933.SZ 神火股份	002140.SZ 豫联股份	603115.SH 海星股份	601677.SH 明泰铝业
公司市值	565.90亿	66.30亿	235.55亿	178.07亿	36.20亿	31.60亿	87.15亿
营业收入	1860亿	124.3亿	295.7亿	188.1亿	43.77亿	12.19亿	163.3亿
ESG Score	18	0	5	13	16	0	0
E Score	0	0	0	5	0	0	0
S Score	0	0	0	0	0	0	0
G Score	18	0	5	9	16	0	0
M Score	0	0	0	0	0	0	0



两年ESG表现对比

相比2019年，公司在2020年度时的ESG风险总分略有提升6个点，得分最高指标方面负面舆情有所减少，但在公司治理方面出现了少量负面舆情。

分类	ESG	2020财年	2019财年	变化	0-25	26-50	51-75	76-100
环境	18	13	5	-				
社会	0	0	0					
G	18	6	12					
综合	0	0	0					

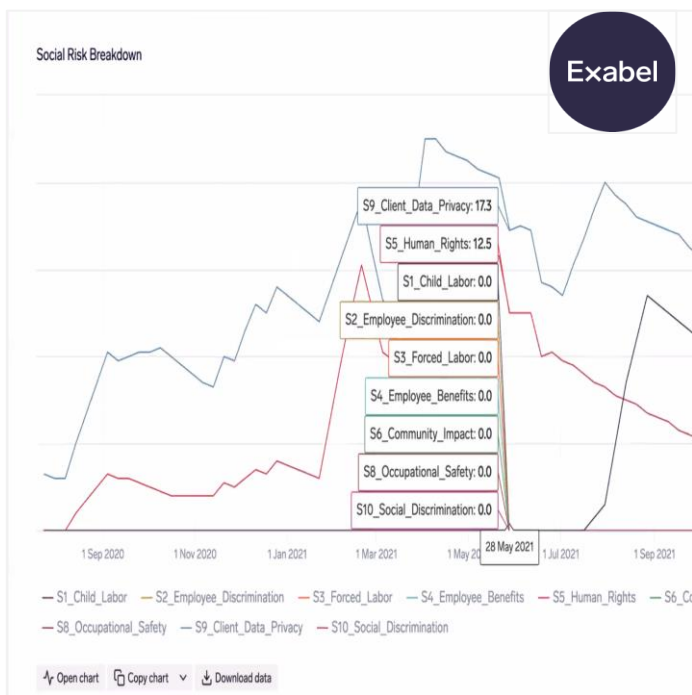
两年ESG事件表现对比

中国铝业的ESG风险总分在2020年出现小幅上涨，得分率有所提升，公司在环境污染、危废处理方面的负面新闻在2020年有所减少，而违法违规相关事件出现频率有所上升。

分类	指标	2020财年	2019财年	变化
环境	温室气体	0	0	0
环境	全球气候变化	0	0	0
环境	生物多样性	0	0	0
环境	水资源	0	0	0
环境	能源效率	0	0	0
环境	废弃物	0	0	0
环境	污染控制	0	0	0
环境	环境许可	0	0	0
环境	环境合规	0	0	0
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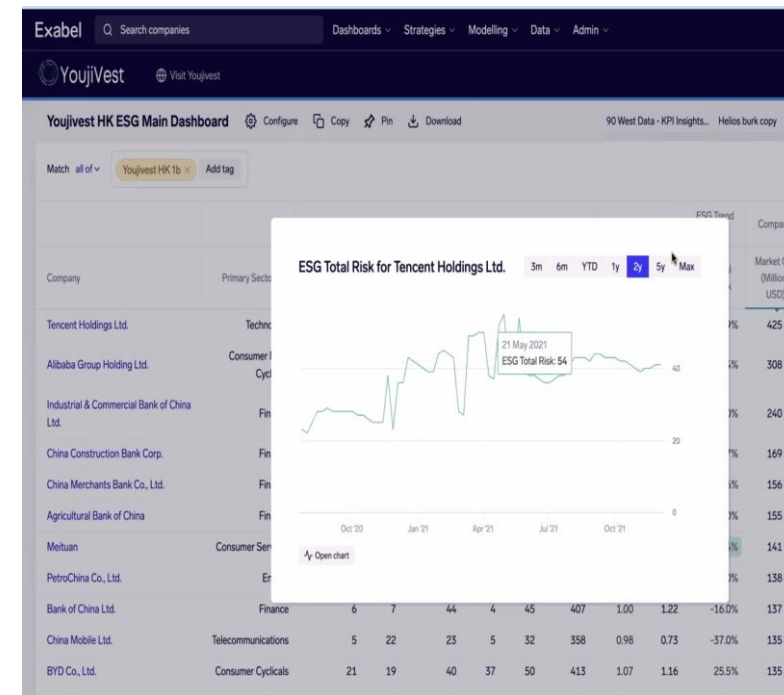
YoujiVest Data Platform – Powered by Exabel

In collaboration with Exabel, a global enterprise financial platform company, our suite of data solutions has been integrated to offer clients seamless access, custom modules and visualizations, and institutional grade quant analytics



YoujiVest HK ESG Main Dashboard

Company	Primary Sector	Environmental Risk	Social Risk	Governance Risk	Mixed Risk	ESG Total Risk	ESG Risk Ranking	Total ESG Risk Surge	Mixed Risk Surge	YoY Total ESG Risk	Market Cap (Millions USD)
Tencent Holdings Ltd.	Technology	1	19	39	4	41	401	0.98	0.81	45.9%	425 544
Alibaba Group Holding Ltd.	Consumer Non-Cyclicals	19	39	57	26	62	423	0.98	1.06	0.4%	308 742
Industrial & Commercial Bank of China Ltd.	Finance	9	7	30	9	33	368	0.97	0.97	-24.0%	240 152
China Construction Bank Corp.	Finance	4	4	39	1	40	394	0.95	0.75	-13.7%	169 287
China Merchants Bank Co., Ltd.	Finance	3	7	39	10	41	396	0.95	0.89	0.6%	156 799
Agricultural Bank of China	Finance	9	3	37	7	38	383	0.98	0.82	-18.0%	155 681
Meltan	Consumer Services	0	0	1	0	1	10	0.57	—	-96.4%	141 191
PetroChina Co., Ltd.	Energy	32	5	42	3	47	410	1.13	0.82	150.0%	138 437
Bank of China Ltd.	Finance	6	7	44	4	45	407	1.00	1.22	-16.0%	137 172
China Mobile Ltd.	Telecommunications	5	22	23	5	32	358	0.98	0.73	-37.0%	135 648
BYD Co., Ltd.	Consumer Cyclicals	21	19	40	37	50	413	1.07	1.16	25.5%	135 257



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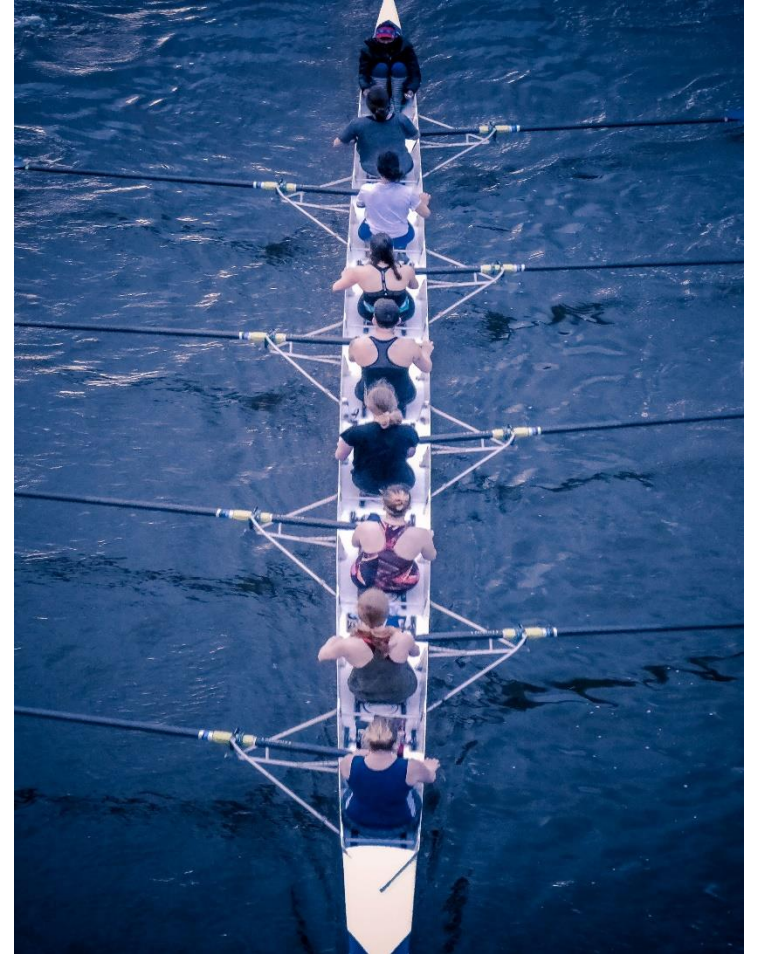


Exabel CEO said: "We are delighted to be partnering with YoujiVest, one of the premier providers of ESG data on the Chinese market. YoujiVest combines two areas of massive market interest, ESG and China, and we are thrilled to get the chance to help bring these insights to a wider audience."

Oslo-based data and analytics platform Exabel has partnered with Chinese ESG data and analytics firm YoujiVest to launch the Youjivest Insights Platform, which aims to enhance ESG information access for China securities. The platform will provide asset managers, asset owners and hedge funds with curated insights based on YoujiVest's ESG data on Chinese securities, displayed through dashboards, analytics, visualisations and KPI-monitoring capabilities to help enhance the integration of ESG and sustainable considerations into their investment processes and workflows.

Your Partner of Choice for ESG Data Solutions

- ✓ ESG Specialist focused exclusively on China, with data methodology and AI technologies tailored to capturing the most relevant sustainable issues
- ✓ Providing the cleanest, broadest, and longest, and data coverage
- ✓ Data efficacy proven through extensive, quantitative back-tests
- ✓ Expert team bring decades of real-world ESG fund product and data experience to support your full workflow and investment lifecycle needs
- ✓ Always in pursuit of the next big ideas and align our product roadmap to deliver continuous value



Speak with us about your ESG needs

- Email: ESG@YOUJIVEST.COM -

