

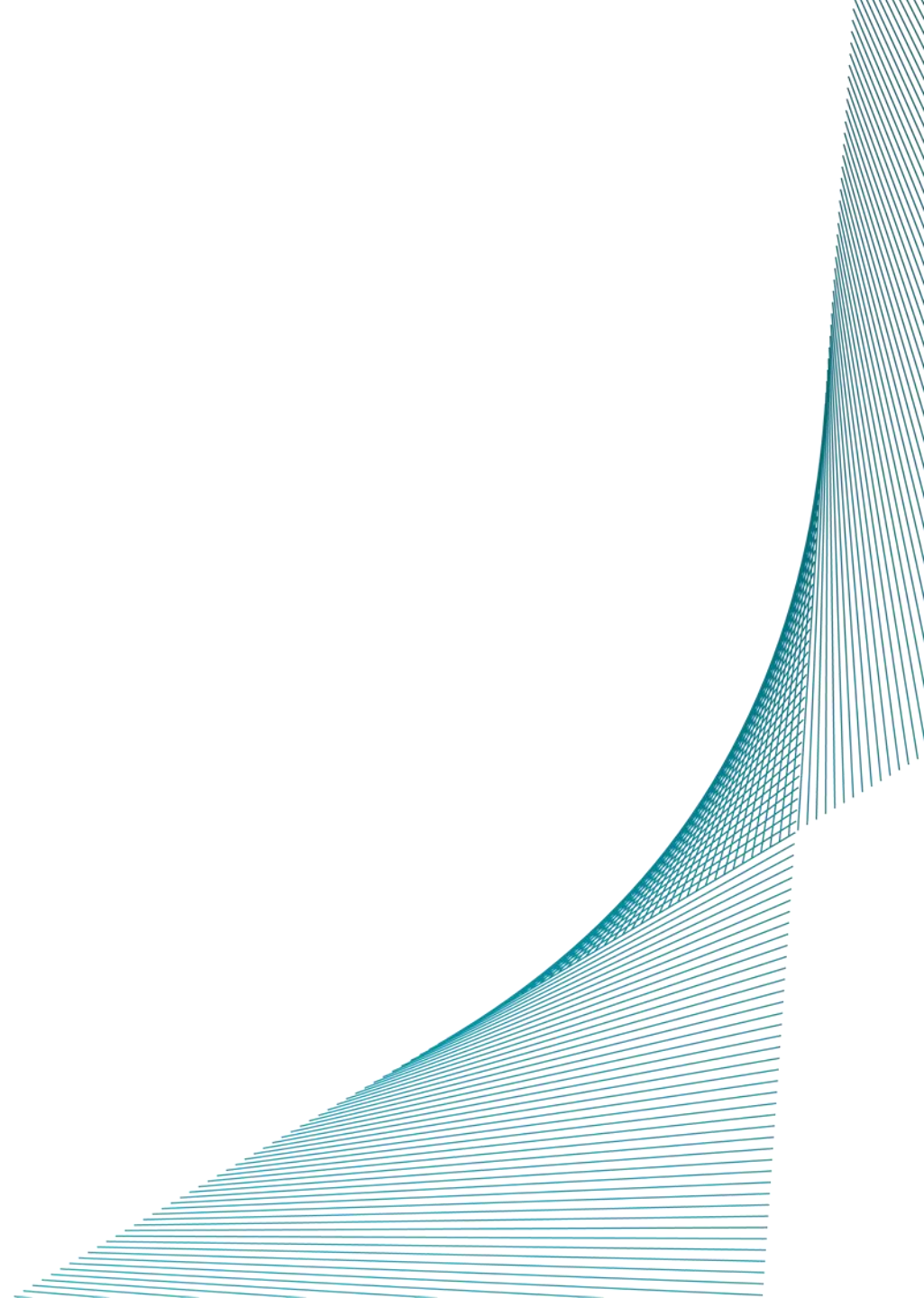


**Investment  
Management**

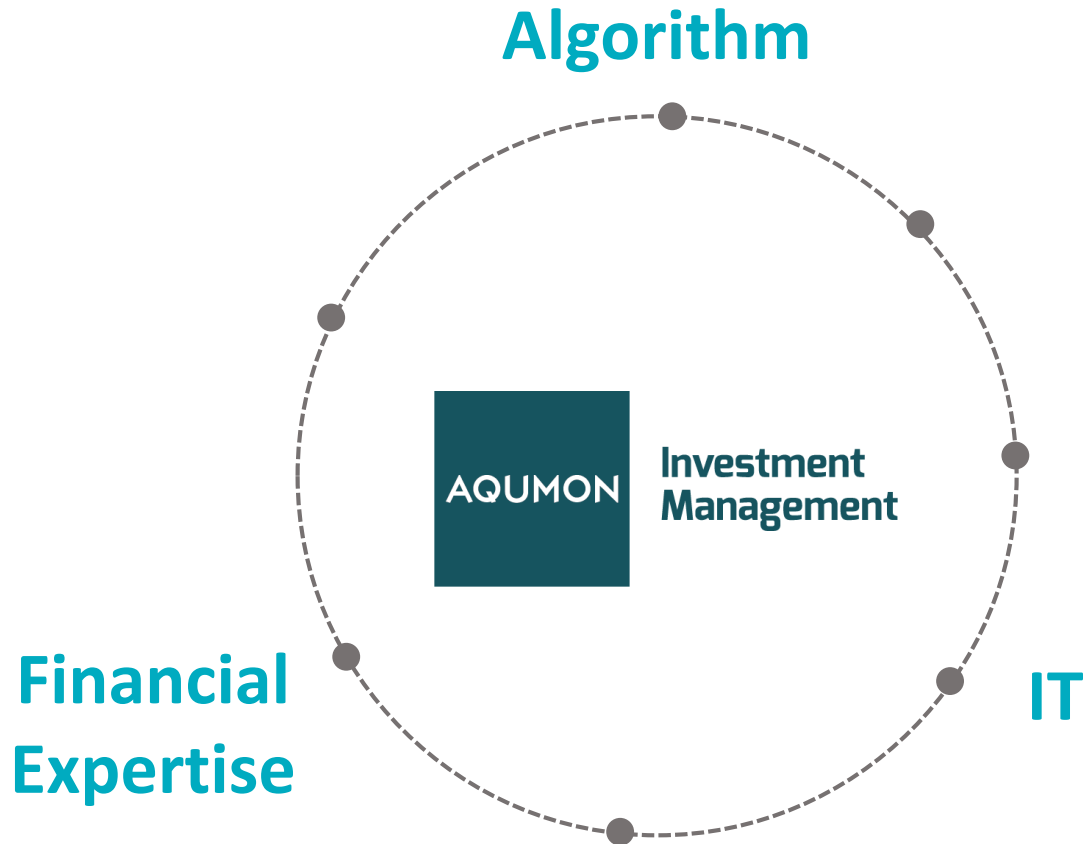
# Digital Investment Management Solutions

Magnum Research Limited  
Jun 2020

Strictly Confidential



# Democratizing Investment Management



A sophisticated **investment engine** that can be adapted in any financial institution to enhance asset & wealth management capabilities.

# Founders



**Kelvin Lei**

**Chief Executive Officer**

- 9 years of FICC sales and Trading
- Former Vice President at Deutsche Bank
- Now leads Financial Markets team at AQUMON



**Dr. Don Huang**

**Head of Quantitative Research**

- Lecturer and Researcher at HKUST
- Ph.D. in Mathematics from HKUST
- Now leads the Quantitative Research team at AQUMON

# Team: 90+ Talents



## AI Algorithm

---

- **A star team of Quantitative Engineers and Data Analysts**
  - 1x PhD in Mathematics
  - 2x PhD in Electronic Engineering
  - 2x PhD in Physics
  - 1x PhD in Finance
  - 5x Master in Financial Engineering

## Investment Committee

---

- **95+ years and >USD10 bn combined investment experience**
  - Veterans from BlackRock, Goldman, Dymon Asia, BoC, Credit Suisse, Deutsche, UBS
  - Hedge fund managers, quant portfolio managers, macro & fixed income trading head, equity trader

## IT

---

- **Strong team from Tencent, Ping An Technology, Huawei**
  - Front and back-end software engineers
  - Product managers
  - UX designers
  - QA engineers & DevOps engineers
  - iOS & Android developers

## Business Development

---

- **Both experienced hires & graduates with degrees from from top tier universities in US, HK & China**
  - Institutional Client Group
  - Wealth Management Group
  - Legal & compliance
  - Accounting & administration

# Business Model

Wide coverage across the Asia Pacific region with No.1 presence in mainland China & HK



## 60+ Signed Institutions

B2B2C



B2B

Advisory



B2B

Discretionary



B2C



# Shareholders



# License and Regulatory Compliance



Licensed in:

Type 1, Type 4, Type 9



Licensed in:

RIA, Qualified Intermediary



Applying for:

PFM License, Public Fund License

In 2017, AQUMON was the **1<sup>st</sup>** independent Robo Advisor accredited by the SFC. In 2019, our partnership with CMB Wing Lung Bank is the **1<sup>st</sup>** case to have entered the reviewing process by HKMA.

Past providers of Independent Assessments including **KPMG, PwC and Deloitte**

# Milestone



Investment Management

- Established at HKUST
- Released first-generation products **SmartGlobal®**
- **Angel Investor**



- Launched **AQUMON APP**
- Launched China Resources Bank's intelligent investment products **RUN Zhitou**
- **Series A++ Funding**

中银国际附属机构 BOC International affiliate



- Established **AI Algorithm Lab** with HKUST

2018

2019

2016 2017

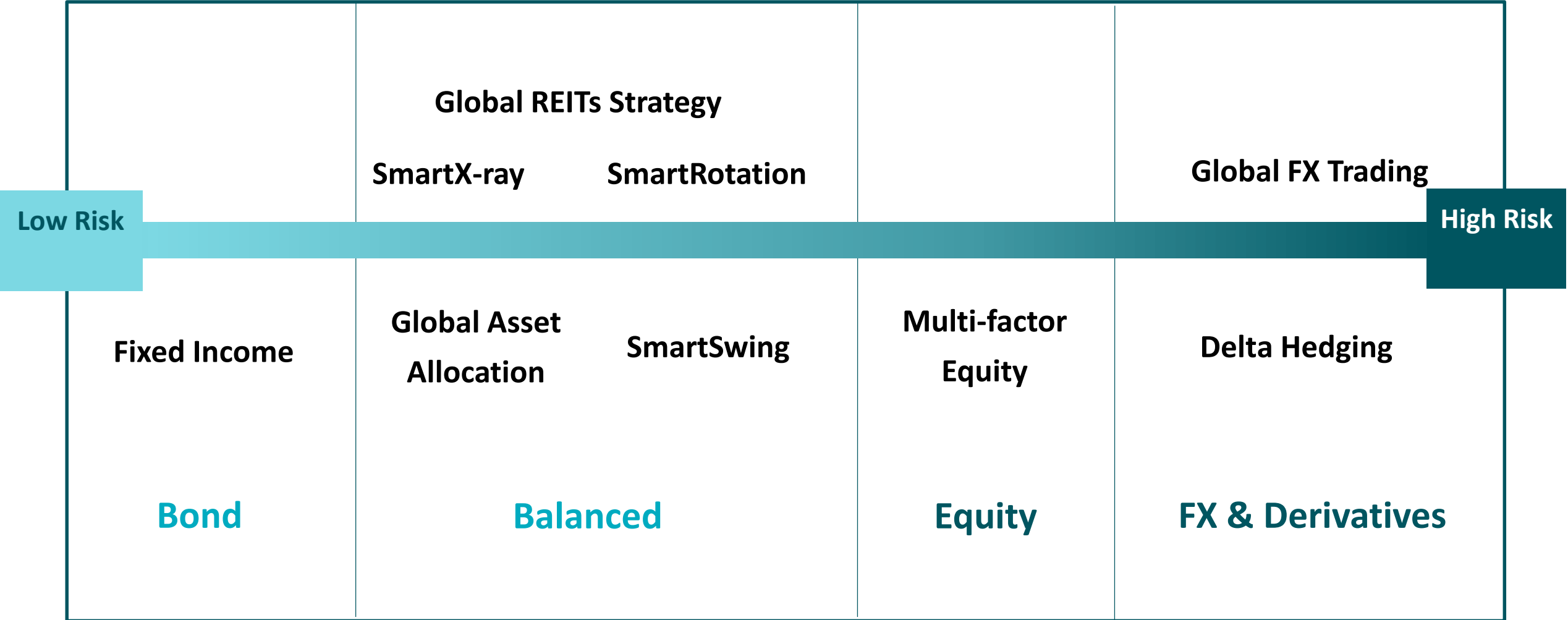
- Obtained **Type 1 & 4 Licenses** from SFC
- **Series A Funding**



- HK's First Commercial Bank Robo with CMB Wing Lung Bank
- Partnership with **Guangzhou Rural Commercial Bank**
- Robo Advisor with **ICBC Asia**
- Robo Advisor with **BOCI**
- Hong Kong's 1st Insurance Robo Advisor with **AIA**
- Launched **AI Fund** with ChinaAMC
- Obtained **Type 9 License** from SFC



# Full Spectrum Algorithm Library



## Traditional Fund Manager

- Fundamental analysis
- 3-rd party data source
- Static factors
- Manual orders
- Limited backtest framework
- Unstable strategy performance
- Legal and admin fees

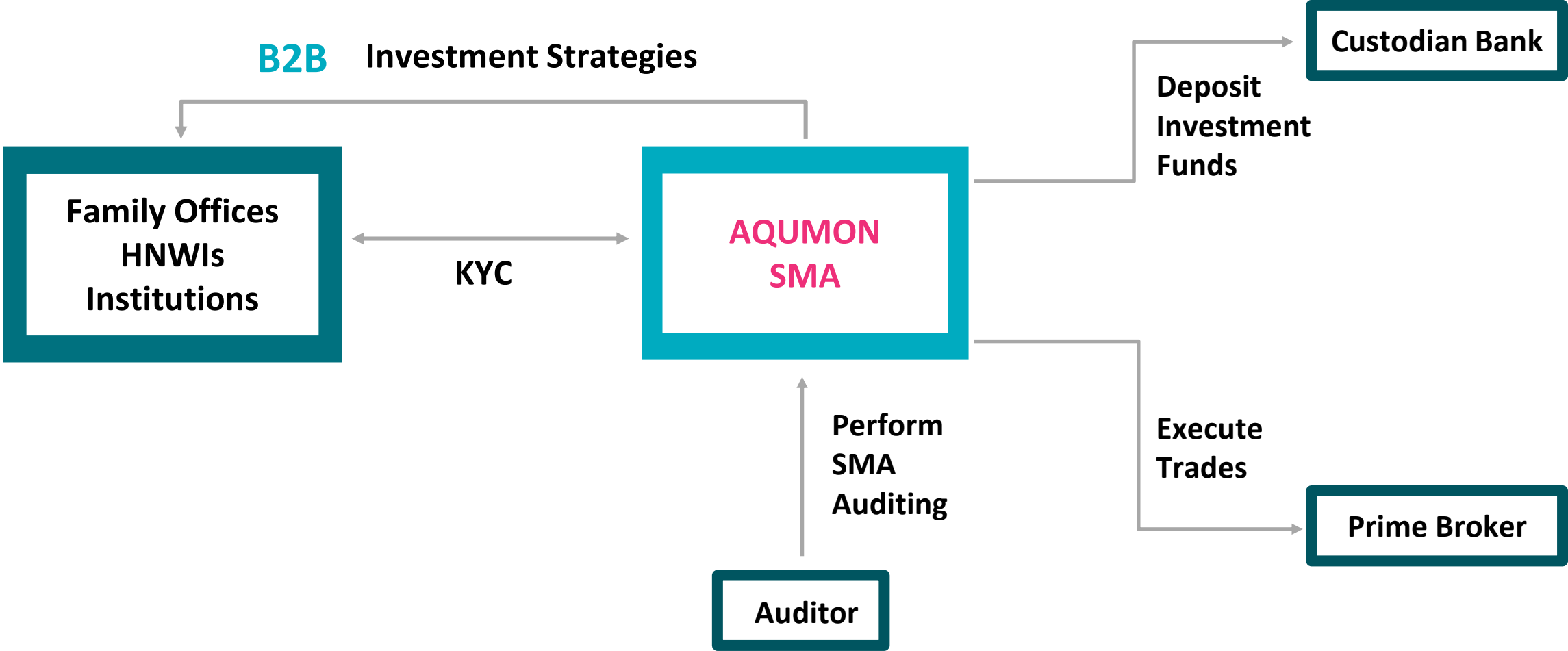
## AQUMON Quantimental Strategies

- **Quantitative driven model**
  - Independent data centre
  - Non-static, hidden data patterns via machine learning
  - Robust trading platform to capture alpha signals in a short time
  - Quantitative risk management system, virtual backtest framework for extreme market scenarios
- **Superior strategy performance**
- **Tailored solutions**
- **No legal and admin fees**

# AQUMON Segregate Management Account



Efficiency | Cost-saving | Track Record | Audited





---

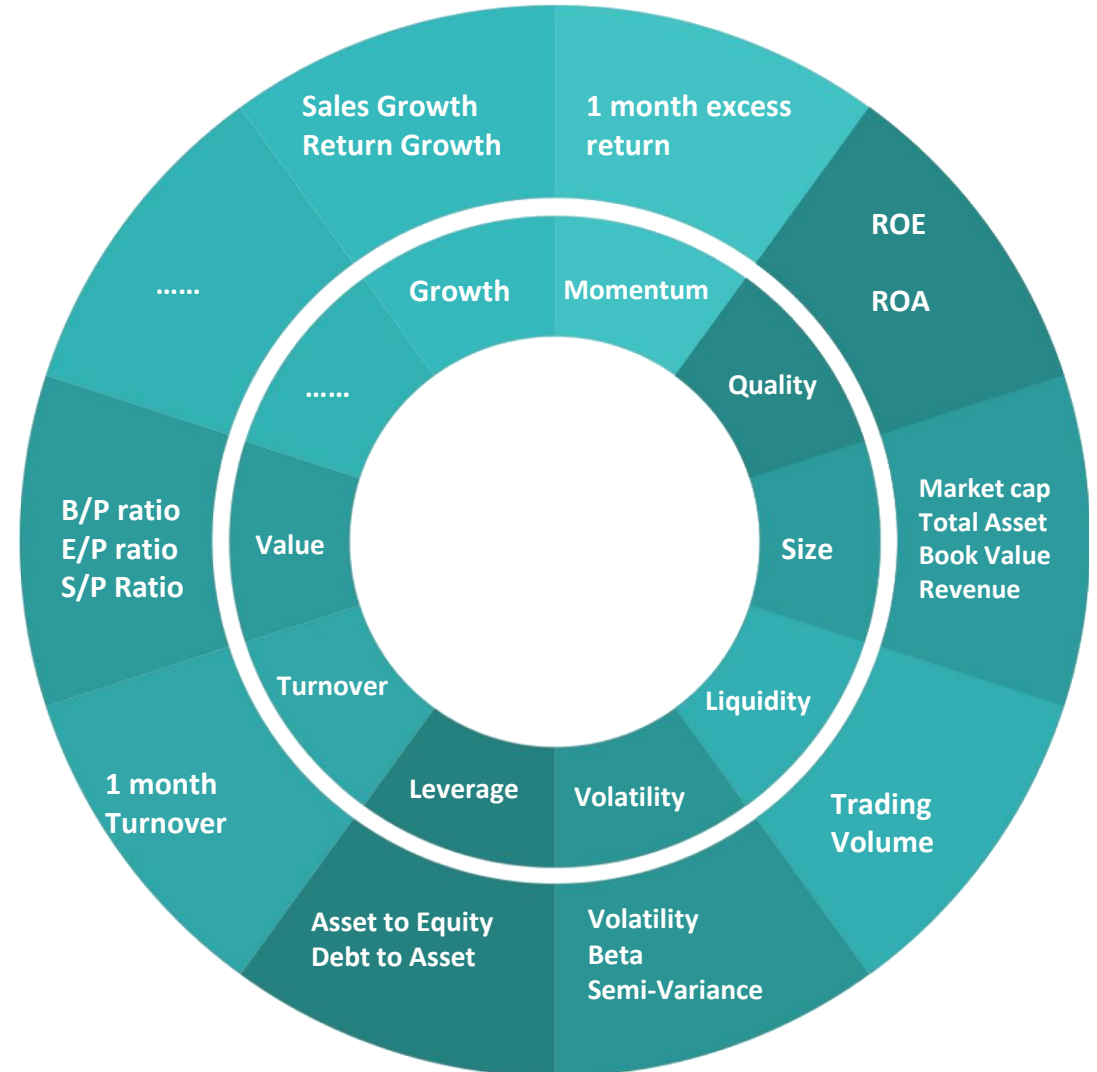
# AI China Alpha Strategy

# Investment Philosophy

Each stock has its own **unique DNA**, expressed in factors; and there are correlations between factors and future returns

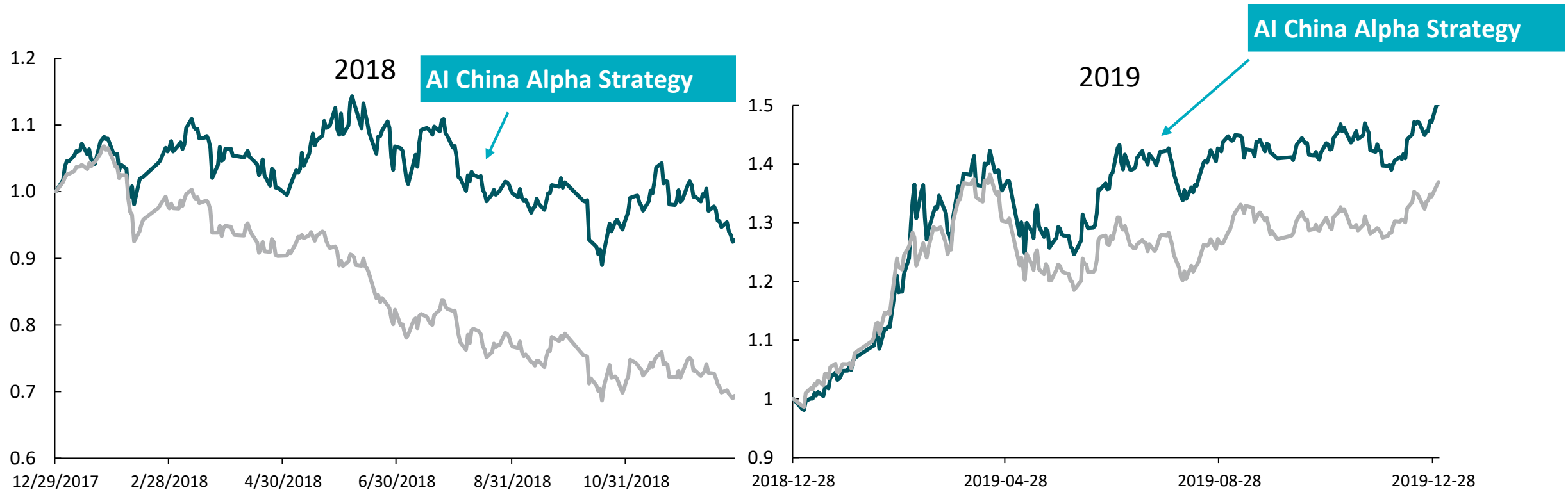
A-share market is **inefficient**; thus, stock prices often deviate from their true values, creating opportunities for alpha strategies

The stock market is **not static**; we realize that effective factors change from time to time, rather than remain constant



# ACAS Performance

## AI China Alpha Strategy vs. MSCI China A Onshore Total Return Index



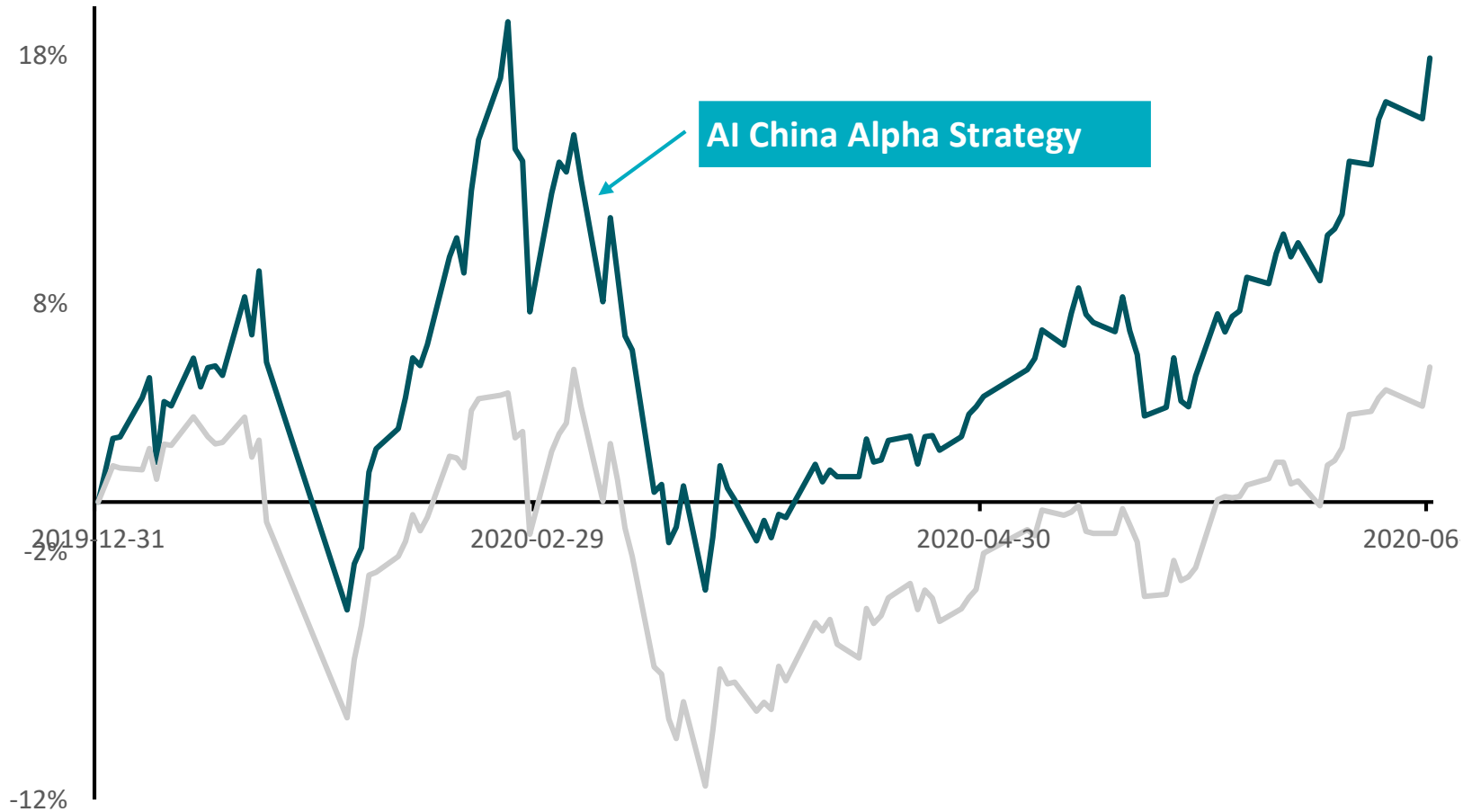
**+22.09%**  
Alpha in 2018

**+9.16%**  
Alpha in 2019

Note: currency in RMB, including transaction cost.

# ACAS 2020 YTD Performance

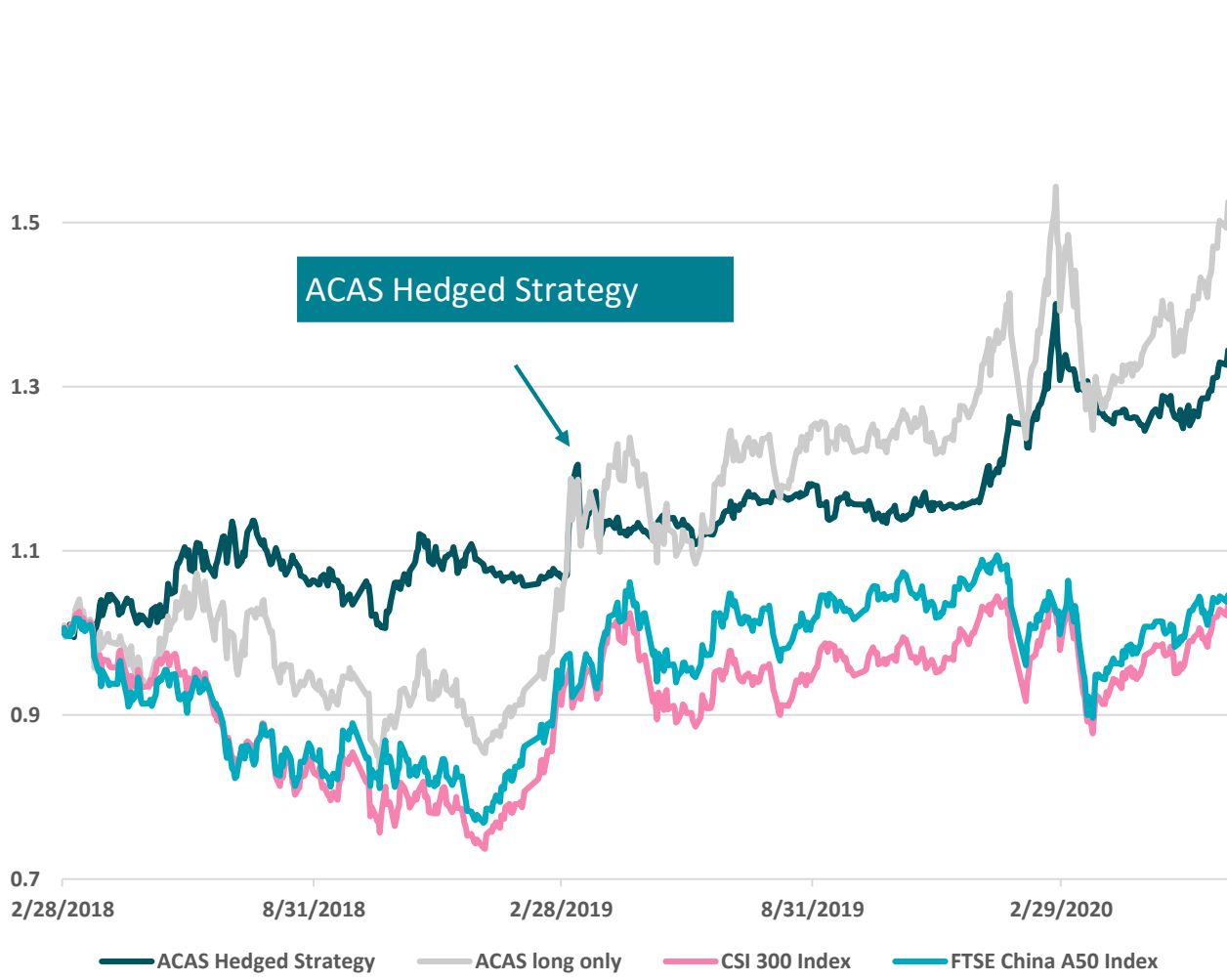
## AI China Alpha Strategy vs. MSCI China A Onshore Total Return Index



**+12.47%**  
Alpha in 2020 YTD

Note: The above graph demonstrates performance from 1<sup>st</sup> January 2020 to 30<sup>th</sup> Jun 2020. currency in RMB, including transaction cost.

# ACAS (Hedged) Strategy



	Total Return	Annualized Return	Annualized Volatility	Max Drawdown
<b>ACAS Hedged</b>	<b>34.45%</b>	<b>13.51%</b>	<b>14.46%</b>	<b>11.03%</b>
ACAS Long Only	52.51%	19.81%	26.14%	19.20%
CSI 300 Index	3.49%	1.48%	21.77%	28.17%
FTSE China A50 Index	4.64%	1.96%	21.90%	24.49%



# Stock Pick Example (Jan 2020)

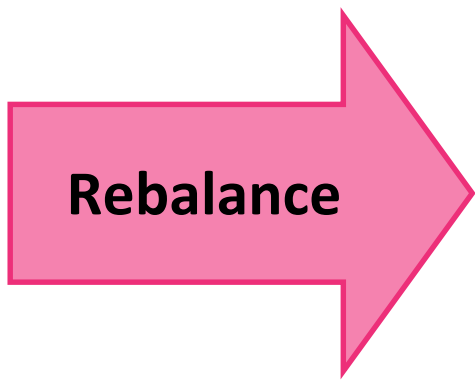
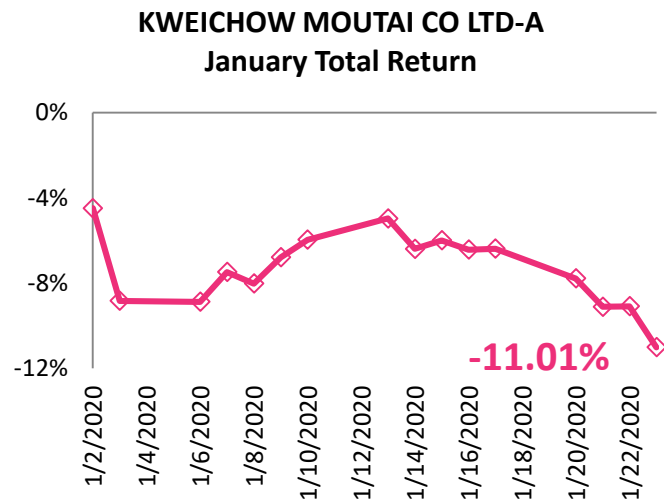
## December 2019

Top Holding in Dec 2019 (Weighting: 6.4%)

**Kweichow Moutai Co. Ltd. (600519 CH)**

Sector: **Consumer Staples**

Jan 2020 Return: **-11.01%**



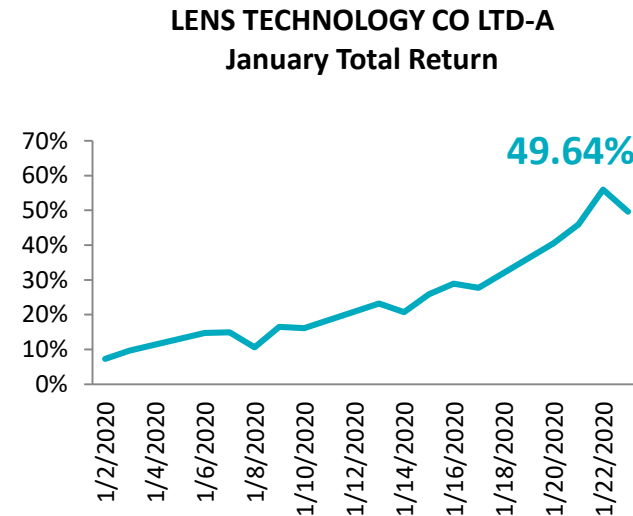
## January 2020

Top Holding in Jan 2020 (Weighting: 4.7%)

**Lens Technology Co. Ltd (300433 CH)**

Sector: **Information Technology**

Jan 2020 Return: **49.64%**





# Global FX Alpha Strategy

# Overview

## ■ Trading Universe

FX spot + NDF

Global currency

## ■ Training Data

FX daily price

Macro indicators

## ■ Commission

1 bps for spot & 3 bps for NDF

## ■ Modeling

16 models covering fundamental and technical indicators

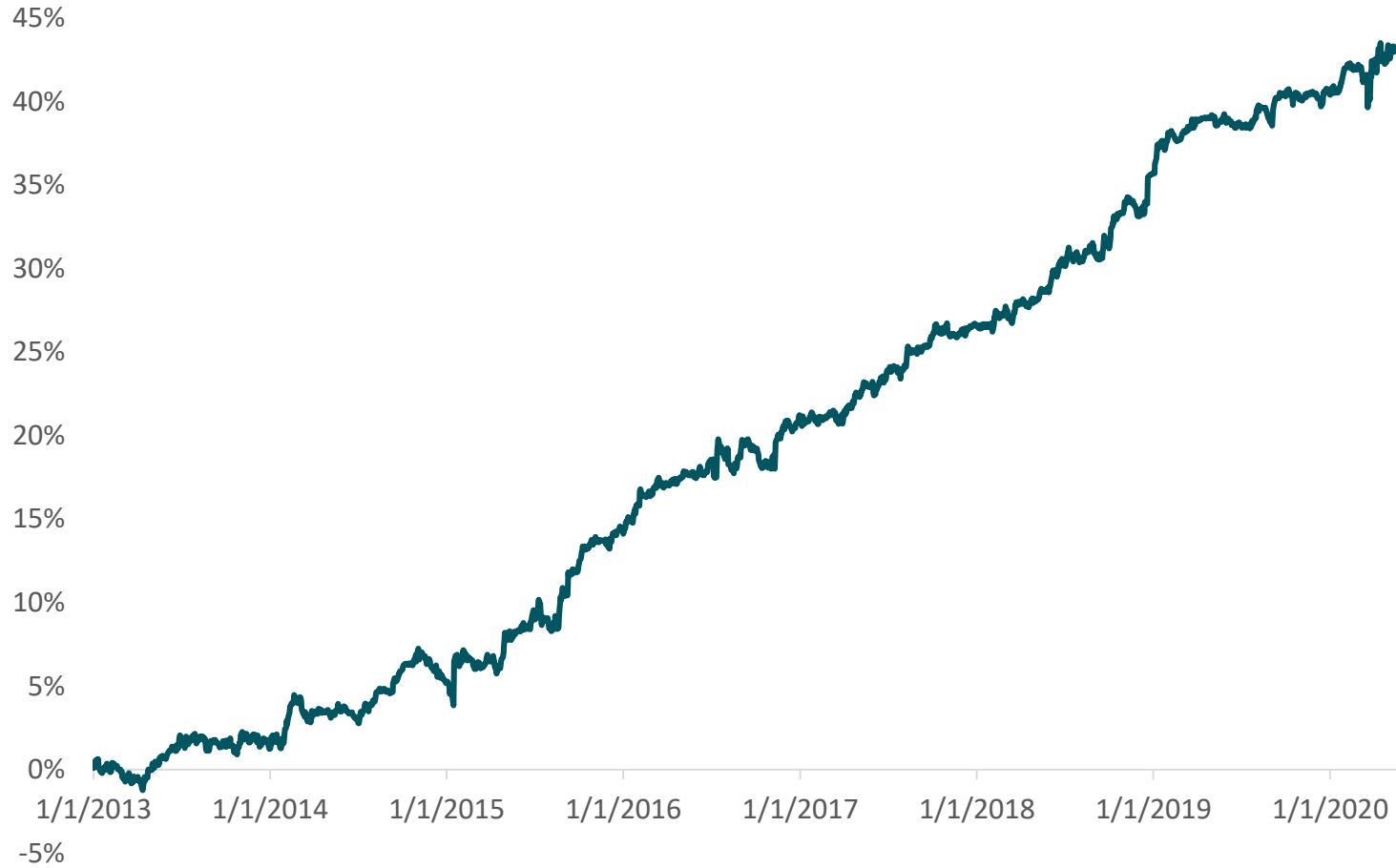
Universe includes but is not limited to:

CAD	SGD	NOK	ILS	INR
CHF	USD	PLN	MXN	IDR
CNH	ZAR	SEK	RUB	TWD
HKD	CZK	TRY	EUR	
JPY	DKK	AUD	KRW	
NZD	HUF	GBP	THB	

	Momentum	Reversion	RSI	KD	MACD-P	CCI	Bollinger-MACD-Divergence	Donchian-Channel	Single-EMA	Single-MA	Double-MA	OLS-Monthly	Monthly-Rank	OLS-Weekly	Weekly-Rank	Equally Weighted
Momentum	1.00															
Reversion	-0.08	1.00														
RSI	-0.03	0.01	1.00													
KD	-0.01	0.10	0.17	1.00												
MACD-P	0.33	-0.06	0.13	0.01	1.00											
CCI	-0.02	-0.02	0.12	0.00	0.08	1.00										
Bollinger-MACD-Divergence	-0.01	-0.05	0.09	0.04	0.06	0.06	1.00									
Donchian-Channel	0.01	0.09	-0.04	0.10	-0.04	0.01	0.03	1.00								
Single-EMA	0.00	-0.04	0.06	0.05	0.05	0.11	0.07	-0.03	1.00							
Single-MA	-0.02	0.01	0.11	0.09	0.07	0.16	0.09	-0.02	0.26	1.00						
Double-MA	0.01	-0.11	-0.05	-0.05	0.02	-0.02	-0.02	-0.03	0.01	-0.02	1.00					
OLS-Monthly	0.09	0.05	-0.03	0.02	0.08	0.06	0.05	0.02	0.02	0.01	0.01	1.00				
Monthly-Rank	-0.01	0.09	0.04	0.05	0.05	0.06	0.03	0.01	0.06	0.08	-0.03	0.46	1.00			
OLS-Weekly	0.04	0.03	-0.03	0.00	-0.04	0.01	-0.02	0.04	0.01	-0.09	0.00	0.29	0.14	1.00		
Weekly-Rank	0.05	0.13	-0.04	0.04	0.04	0.05	-0.04	0.03	0.03	0.00	-0.03	0.32	0.39	0.20	1.00	
Equally Weighted	0.43	0.28	0.41	0.45	0.49	0.31	0.25	0.26	0.27	0.40	0.10	0.10	0.10	0.00	0.09	1.00

# Performance Overview

Strategy Performance 2013 - 2020



Time	2012.12.31-2020.05.29
Number of Trading Days	2192

Metrics	Performance
Total Return	43.59%
Daily Return	0.02%
Annualized Return	5.68%
Daily Volatility	0.21%
Annualized Volatility	3.33%
Maximum Drawdown	3.40%
Average Drawdown	0.45%
Sharpe Ratio	1.70



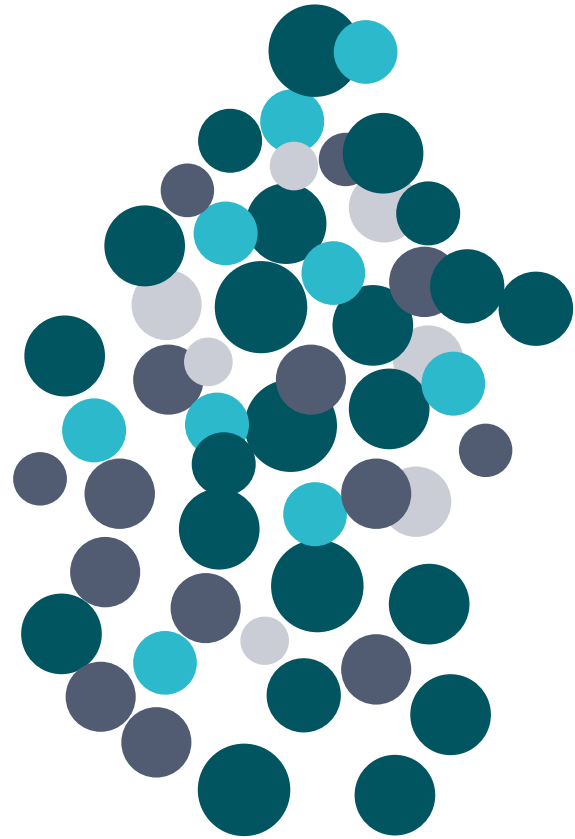
# **AQUMON Global SmartREITs**



## Why invest into REITs through quantitative method

1. There are 1,492 REITs across 46 markets
2. Many factors affect the REITs future returns, including macro-economic factors, trading factors, and fundamental factors.
3. Some countries/some sectors are not suitable for real estate investment

# Multi Factor Model to Select the Best REITs



1,492 REITs across 46 markets

- ① **Market-Level Factors**
  - Growth
  - Inflation
  - Profitability of Overall Market

- ② **Trading Factors**
  - Momentum
  - Liquidity
  - Volatility

- ③ **Fundamental Factors**
  - Organic Growth
  - External Growth
  - Valuation
  - Debt payment capability
  - Analyst Prediction

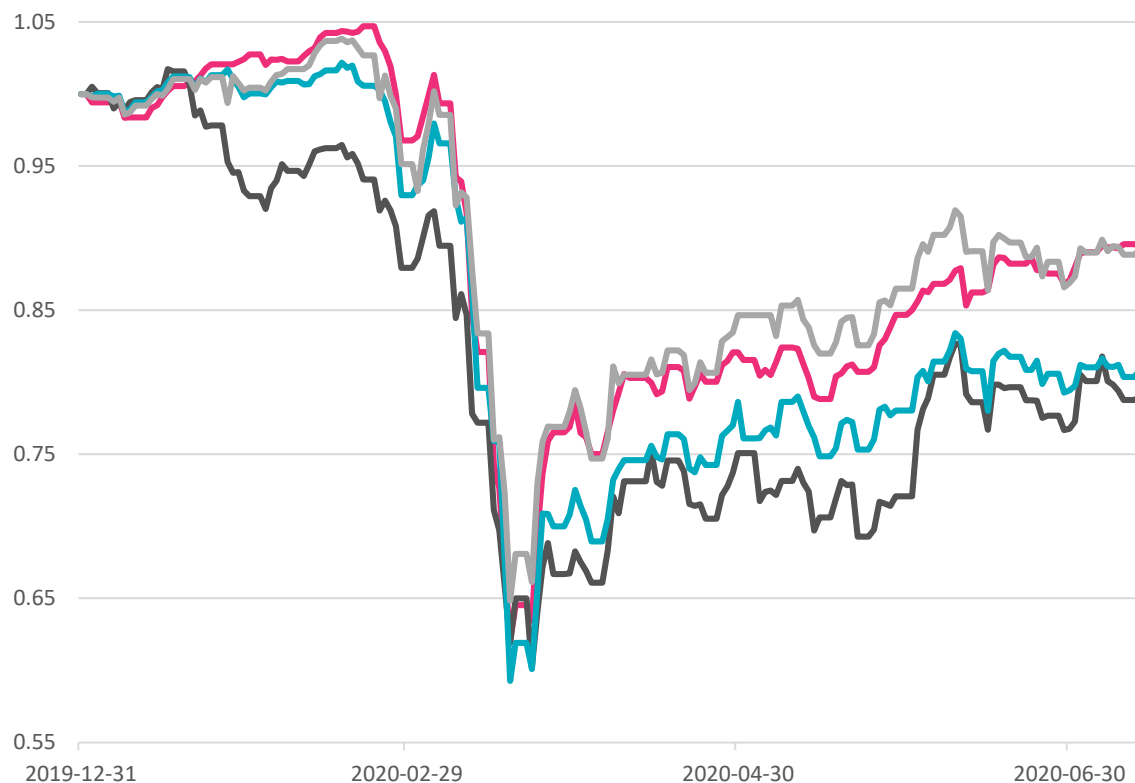


**REITs Portfolio**



# SmartREITs Strategy Performance

Dec. 31, 2019 – June 30, 2020



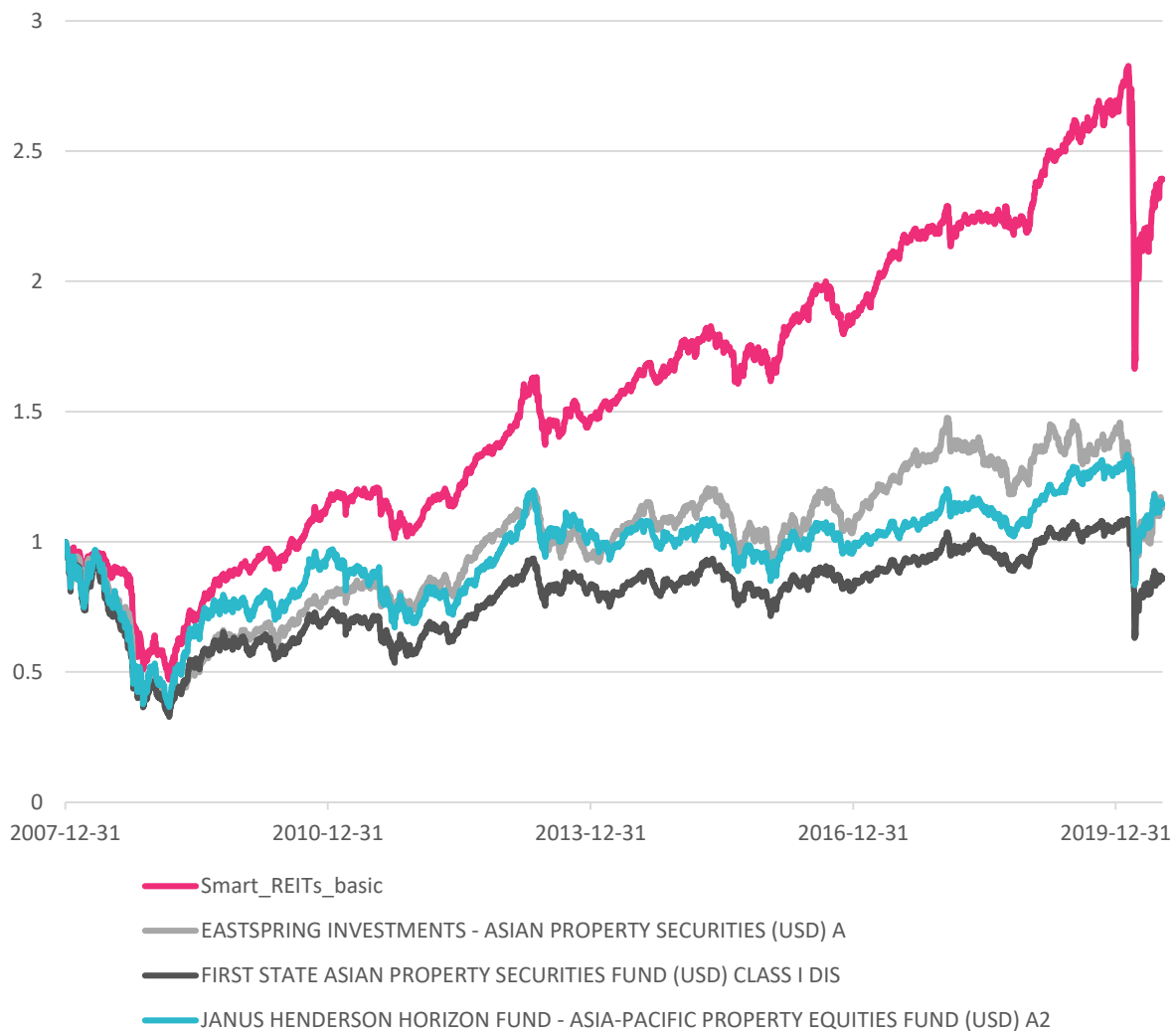
- Smart\_REITs
- EASTSPRING INVESTMENTS - ASIAN PROPERTY SECURITIES (USD) A
- FIRST STATE ASIAN PROPERTY SECURITIES FUND (USD) CLASS I DIS
- JANUS HENDERSON HORIZON FUND - ASIA-PACIFIC PROPERTY EQUITIES FUND (USD) A2

	YTD	Max drawdown	Sharpe ratio
Smart_REITs	-10.58%	-40.75%	-0.49
EASTSPRING INVESTMENTS - ASIAN PROPERTY SECURITIES (USD) A	-21.02%	-40.78%	-0.83
FIRST STATE ASIAN PROPERTY SECURITIES FUND (USD) CLASS I DIS	-19.12%	-41.98%	-0.74
JANUS HENDERSON HORIZON FUND - ASIA-PACIFIC PROPERTY EQUITIES FUND (USD) A2	-10.80%	-37.55%	-0.44

JANUS HENDERSON HORIZON FUND - ASIA-PACIFIC PROPERTY EQUITIES FUND (USD) A2: investing at least 75% of its total assets in the quoted equities of companies or Real Estate Investment Trusts (or their equivalents) having their registered offices in the Asia-Pacific Region and listed or traded on a regulated market.

# SmartREITs Strategy Performance

Dec. 31, 2007 – June 30, 2020



	Total return	Max drawdown	Annualized return	Annualized volatility	Sharpe ratio
Smart_REITs	183.44%	-49.41%	5.96%	11.76%	50.67%
EASTSPRING INVESTMENTS - ASIAN PROPERTY SECURITIES (USD) A	3.32%	-65.21%	0.18%	15.40%	1.18%
FIRST STATE ASIAN PROPERTY SECURITIES FUND (USD) CLASS I DIS	-16.92%	-67.28%	-1.02%	17.10%	-5.99%
JANUS HENDERSON HORIZON FUND - ASIA-PACIFIC PROPERTY EQUITIES FUND (USD) A2	11.16%	-63.45%	0.59%	17.18%	3.43%



**Investment  
Management**

