Megatrends – iShares Thematic ETFs Steven Lu, CFA, BlackRock iShares APAC Distribution

April 2018

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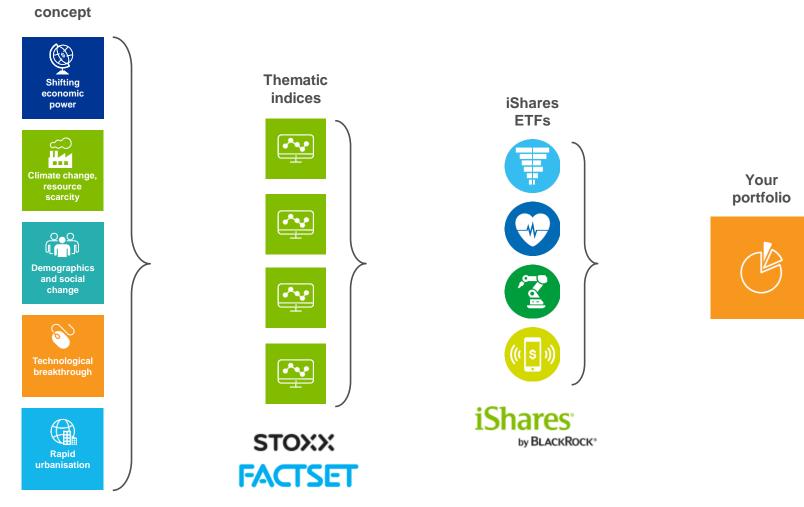
What are Thematic Investments?

Five major megatrends shaping the globe



*Source: BlackRock, United Nations World Population Prospects: The 2015 Revision; as of July 2015.

Megatrends and how you can benefit



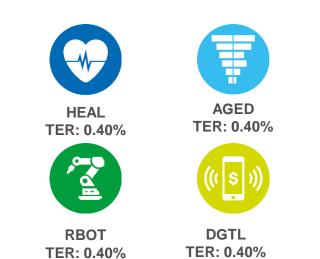
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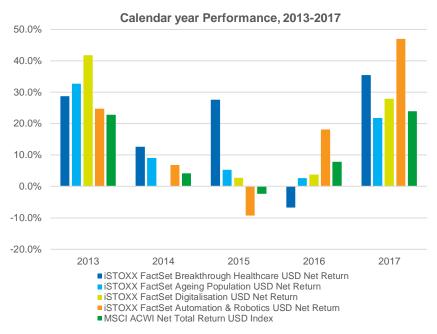
Investment

Source: BlackRock, as of 31st December 2017. For illustrative purposes only.

iShares Thematic ETFs

Overview





The figures shown relate to past performance. Past performance is not a reliable indicator of current or future results and should not be the sole factor of consideration when selecting a product or strategy.

Source: BlackRock, Bloomberg as of 31st December 2017.

ETF	Ticker	ISIN	SEDOL	TER	AUM (\$M)	Inception Date
iShares Healthcare Innovation UCITS ETF	HEAL	IE00BYZK4776	BYZK477	0.40%	256.49	12/09/2016
iShares Ageing Population UCITS ETF	AGED	IE00BYZK4669	BYZK466	0.40%	210.01	12/09/2016
((I)) iShares Digitalisation UCITS ETF	DGTL	IE00BYZK4883	BYZK488	0.40%	400.47	12/09/2016
iShares Automation & Robotics UCITS ETF	RBOT	IEOOBYZK4552	BYZK455	0.40%	2386.83	12/09/2016

Source: Bloomberg, BlackRock at 31-Mar-18

Source: BlackRock, Bloomberg as of 31st March 2018.

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Thematic ETF Information

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iStoxx Factset Thematic Indices

Methodology Overview and Key Features

Index methodology explained

Move beyond traditional sector classifications

Cielo SA: stock in the iStoxx Factset Digitalisation index

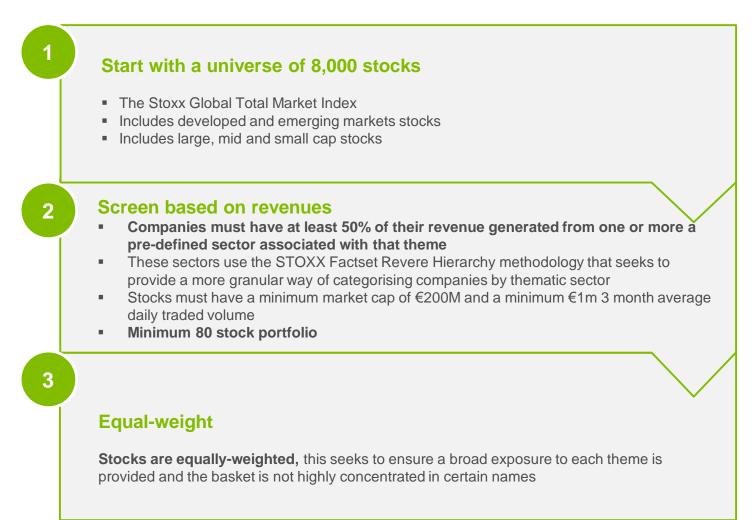
- Despite being in the Financials GICS sector, Cielo SA generates over 50% of its revenue from Electronic Payment Processing putting it squarely in the Digitalisation theme.
 - In order to be included in one of the key themes, a company must generate at least 50% of its revenues from one or multiple pre-defined sectors
 - The index uses the Revere Business Industry Classification System (RBICS) that classifies a company's revenues across six increasingly granular levels, known as 'hierarchies'
 - Each index only incorporates companies with sufficient revenue levels at a hierarchical depth of 6 –the most granular level –to ensure the purity of exposure to the digitalisation sector



Source: Stoxx as of December 2017. For illustrative purposes only.

iStoxx Factset Thematic Indices

Construction

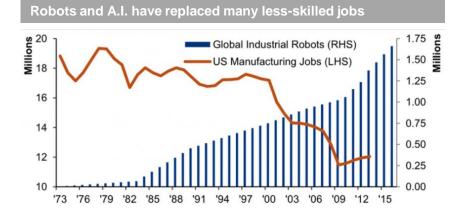


Source: Stoxx as of December 2017.

iShares Thematic ETFs

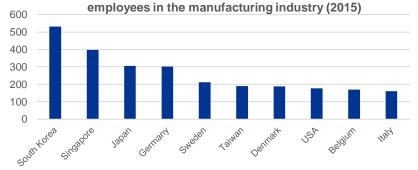
RBOT, DGTL, AGED, HEAL





Source: BofA Merrill Lynch Global Investment Strategy, IFR, Bloomberg; as of December 2016

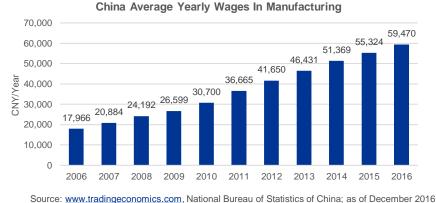
Meaning this is a truly global theme



Number of multipurpose industrial robots per 100,000

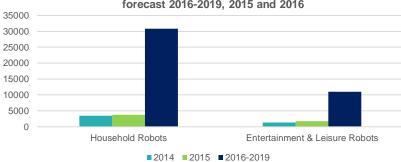
Source: International Federation of Robotics as of December 2015

But manufacturing wages in EM are increasing



Robots are also infiltrating our everyday lives

Source: World Robotics 2016: as of December 2016



Service robots for personalised/domestic use. Unit sales forecast 2016-2019, 2015 and 2016

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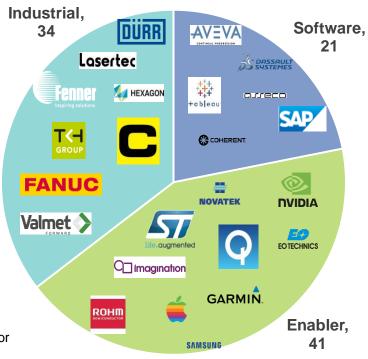
By 2025, the share of tasks performed by robots could rise from a global average of around 10 percent to about 25 percent across all manufacturing industries.*

3 sub themes within robotics

- Industrial
 - Automotive industry, machine manufacturing, automated production lines
- Enablement
 - Vision technology, chip manufacturers, processing power
- Software
 - Artificial intelligence, deep learning

*Source: BofA Merrill Lynch Global Investment Strategy, IFR, Bloomberg. Source: BlackRock; as of December 2017. For illustrative purposes only, characteristics subject to change. Reference to the names of each company mentioned in this communications is merely for explaining the investment strategy, and should not be construed as investment advice or investment recommendation of those companies. Blackrock has not acquired any rights or license to reproduce the trademarks, logos and images set out in this document. The trademarks, logos and images set out in this document are used only for the purposes of this presentation.

Sub-theme security breakdown



iShares Automation & Robotics UCITS ETF

RBOT



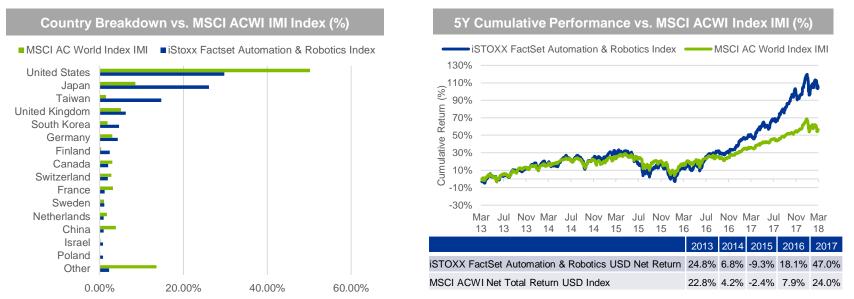
Why automation & robotics today?

Invest in disruptive change – Robots have the power to disrupt existing industries, deliver cost savings and efficiencies as well as drive corporate profits for the next few decades

 \checkmark

Harness technological growth – Capture companies specialising in innovations across technologies which include machine manufacturing, artificial intelligence and chip manufacturing

Seek outperformance – Thematic investments such as RBOT can help investors seek long term growth while expressing a view on the innovative companies that will shape the global economic future

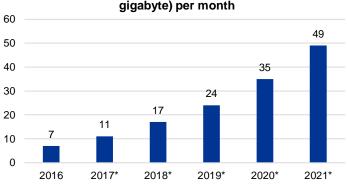


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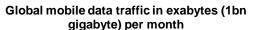
Source: BlackRock, Bloomberg, STOXX; as of 31st March 2018. Characteristics subject to change. Geographic exposure relates principally to the domicile of the issuers of the securities held in the index, added together and then expressed as a percentage of the index's total holdings. However, in some instances it can reflect the country where the issuer of the securities carries out much of their business. Indexes are unmanaged and one cannot invest directly in an index.

Digitalisation

Digitalisation Disruptive technology is changing the world

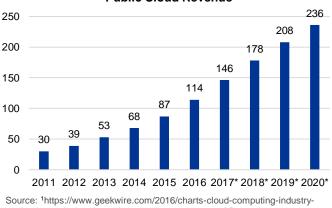


Mobile internet traffic is rapidly increasing



Source: Statista 'Digital Economy Compass'; as of April 2017

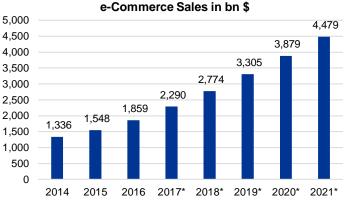
Digitalisation of everything relies on the cloud



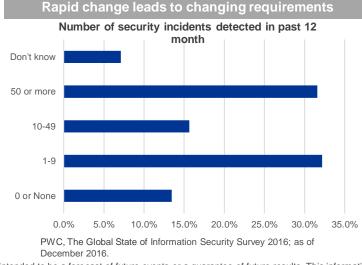
Public Cloud Revenue

getting-huge-decimating-sales-premise-servers; as of December 2016.

Online spending is also on the up



Source: Statista 'Digital Economy Compass'; as of April 2017



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The digital economy is displacing established business models, shaking up industries and creating entirely new industries.

3 sub themes within digitalisation

Communication

• Social media, instant messaging, cloud computing

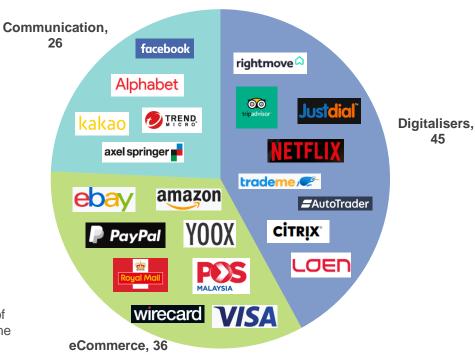
Digitalisers

• Entertainment, industry disruption, FinTech, cyber security

➢ eCommerce

• Internet shopping, payment processing, delivery

Source: Factset, Stoxx, BlackRock; as of December 2017. For illustrative purposes only, characteristics subject to change. Reference to the names of each company mentioned in this communications is merely for explaining the investment strategy, and should not be construed as investment advice or investment recommendation of those companies. Blackrock has not acquired any rights or license to reproduce the trademarks, logos and images set out in this document. The trademarks, logos and images set out in this document are used only for the purposes of this presentation.



Sub-theme security breakdown

iShares Digitalisation UCITS ETF

Disruptive technology is changing the world

DGTL



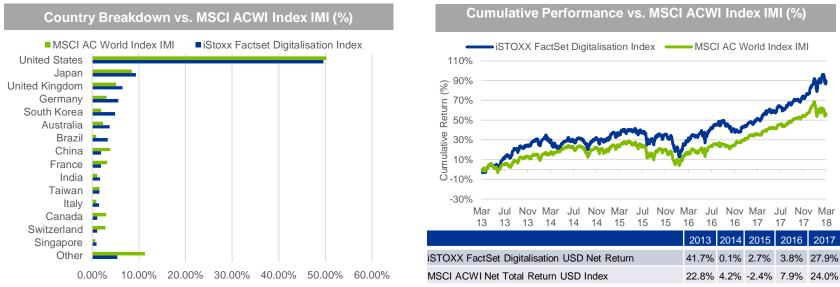
Why digitalisation today?

Invest in the digital economy – Invest in sectors such as financial technology, cybersecurity, and cloud computing that are transforming global markets today and have the potential to shape the world economy in the future.



Diversification – Gain diversified, global exposure to companies that offer digitally focused services and stand to benefit from the growth of a digitally connected society.

Future growth potential – Given the global coverage and long-term nature of the trends underpinning DGTL, investors may consider using it as a satellite component or strategic tilt within a global portfolio.



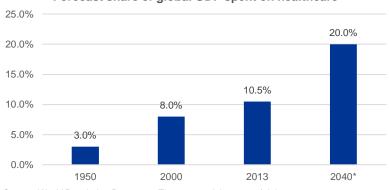
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Healthcare innovation



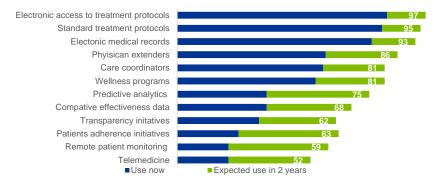
Spending on healthcare is set to balloon



Source: World Population Prospects: The 2015 revisions; as of July 2015. *Estimated figure.

Opportunities broadening for patients in the US

New clinical tools & practices adopted and forecast in the US healthcare industry

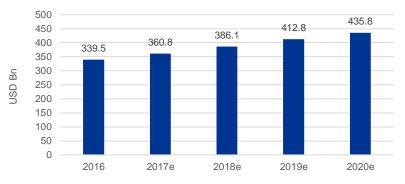


Forecast share of global GDP spent on healthcare

Source: Bain, Front of Line Healthcare Report 2015; as of 2015.

Medical devices market is set to expand rapidly

Medical Devices Market: Forecast for growth



Source: http://trade.gov/topmarkets/pdf/Medical_Devices_Executive_Summary.pdf; as of September 2016.

The size of China's digital healthcare market (\$bn)

Digital advancement transforming Chinese healthcare

\$120B 1110 \$100B \$80B \$80B \$60B \$40B \$20B \$3 \$0B \$20H 2020

Source: BCG Perspectives: China's Digital Health-Care Revolution; as of September 2015.

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If current trends persist to 2050, most developed countries will spend more than a fifth of GDP on health care. The U.S. and Switzerland are projected to spend half of their GDP on healthcare within the next 50 years

3 sub themes within healthcare innovation:

Biotech

• Chronic diseases, genetic sequencing, antibody innovation

Devices

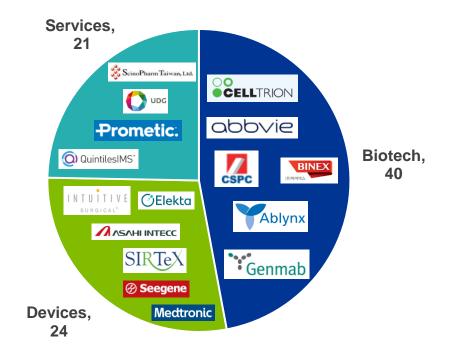
• Medical robotics, cardiology, oncology,

Services

• Software, outsourcing, interface

Source: McKinsey Quarterly Review, health care costs: a market-based view Source: Factset, Stoxx, BlackRock as of December 2017. For illustrative purposes only, characteristics subject to change. Reference to the names of each company mentioned in this communications is merely for explaining the investment strategy, and should not be construed as investment advice or investment recommendation of those companies.

Sub-theme security breakdown:



iShares Healthcare Innovation UCITS ETF *HEAL the world*

HEAL

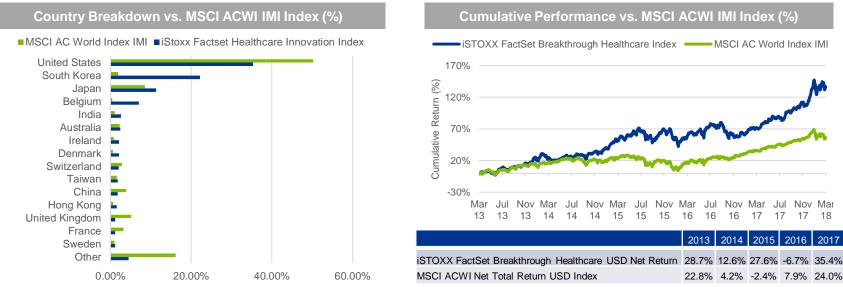


Why healthcare innovation today?

Shifting demographics – As health services around the world face rising demand from an ageing population, more efficient and effective ways of delivering treatment and care are likely to be needed

Diversification – HEAL provides access to the healthcare innovation theme on a global basis and can complement a traditional equity exposure by diversifying a portfolio's drivers of return

Performance – Thematic investments are designed to provide exposure to long-term growth and HEAL's benchmark has outperformed the broader MSCI ACI IMI Index over the past five years.



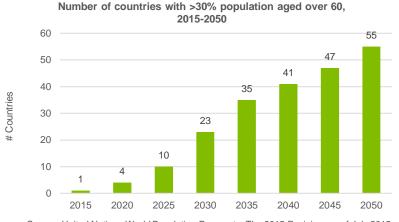
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Ageing Population

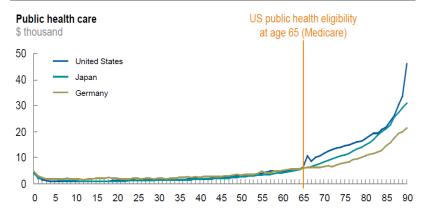


The proportion of elderly people is rapidly increasing



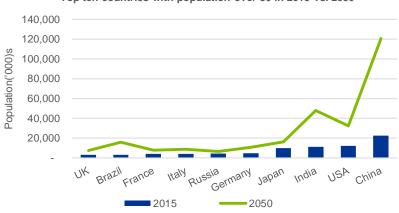
Source: United Nations World Population Prospects: The 2015 Revision; as of July 2015.

Healthcare costs accelerate with age



Source: McKinsey Global Institute Cityscope; National Transfer Accounts Project; McKinsey Global Institute analysis; as of April 2016.

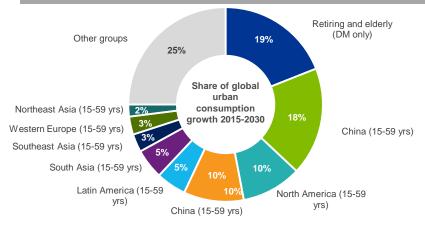
Ageing is not just a first world problem



Top ten countries with population over 80 in 2015 vs. 2050

Source:

The elderly will dominate global consumption growth



Source: McKinsey Global Institute Cityscope; as of April 2016. Numbers may not add up to 100% due to rounding.



The global population is undergoing a paradigm shift as people are living longer and reproducing less. The current skew towards the young will be largely eroded over the next 30 years.*

4 sub themes within an ageing population:

> Healthcare

- · Chronic diseases, biotech, geriatric devices
- Ageing care
 - · Retirement villages, specialist care facilities

Consumer

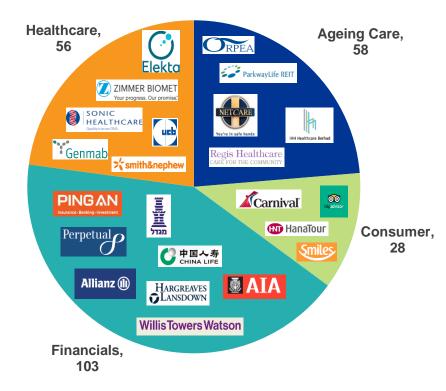
• Travel, leisure

Financials

· Pensions, asset managers, life insurance

*Source: Oxford Economics; as of September 2016. Source: Factset, Stoxx, BlackRock; as of December 2017. For illustrative purposes only, characteristics subject to change. Reference to the names of each company mentioned in this communications is merely for explaining the investment strategy, and should not be construed as investment advice or investment recommendation of those companies. Blackrock has not acquired any rights or license to reproduce the trademarks, logos and images set out in this document. The trademarks, logos and images set out in this document are used only for the purposes of this presentation.

Sub-theme security breakdown



iShares Ageing Population UCITS ETF

AGED



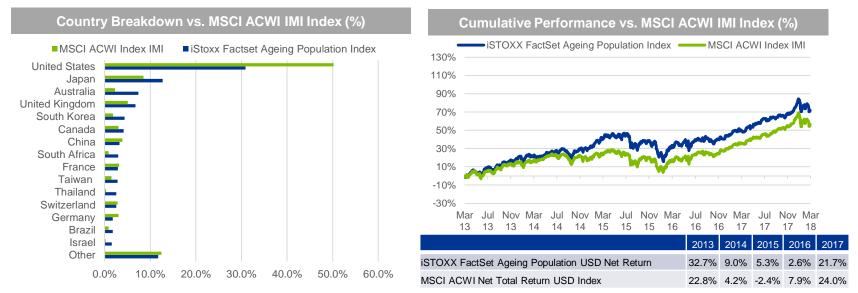
Why ageing population today?

Shifting demographics – As people are living longer, society will be forced to make rapid investments into medical devices and technology to account for a significantly older population.



Diversification – Directly investing in companies that will benefit from an ageing population can complement an existing equity strategy and diversify a global portfolio.

Long-term performance – Unprecedented increases in human longevity are also creating stores of investment opportunity. AGED provides a tool to invest in this trend and seek long-term growth while providing portfolio diversification.



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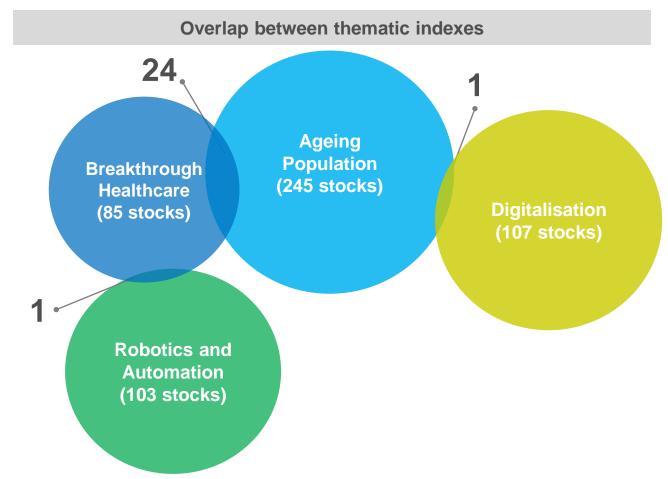
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How to Implement in client portfolios

Invest across thematic strategies with limited overlap

Thematic fund implementation:

- > **Target a specific theme** with a single thematic strategy
- > Invest across thematics to further diversify and enhance a global portfolio



Source: Factset as of December 2017. For illustrative purposes only, characteristics subject to change.

Thematic correlations to broad equities

Diversification benefits within an equity portfolio

- The funds can be utilized within the Equities allocation of a portfolio when seeking diversification benefits, with correlations against most major Equity indices under 90%.
- > Historically, HEAL has exhibited the lowest long term correlation to broad equity markets

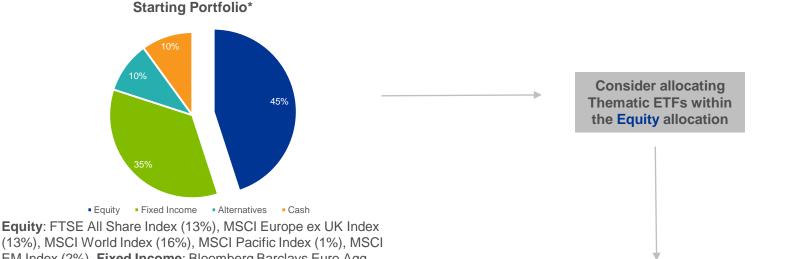
	RBOT	HEAL	DGTL	AGED
RBOT	1	0.69	0.88	0.81
HEAL	0.69	1	0.77	0.83
DGTL	0.88	0.77	1	0.91
AGED	0.81	0.83	0.91	1
MSCI World	0.86	0.75	0.92	0.94
FTSE All Share Index	0.70	0.58	0.74	0.73
MSCI Europe ex UK Index	0.71	0.65	0.72	0.75
MSCI Pacific ex Japan Index	0.72	0.61	0.77	0.84
MSCI EM Index	0.80	0.55	0.78	0.79

Correlations to Broad Equities

Source: BlackRock. Periods used: 03/11/2014 – 31/12/2017 Currency: GBP. Frequency: Monthly. **The figures shown relate to past performance. Past performance is not a reliable indicator of current or future results and should not be the sole factor of consideration when selecting a product or strategy.** BlackRock makes no representations or warranties as to the accuracy or completeness of any past, estimated or simulated performance results contained herein, and further nothing contained herein shall be relied upon as a promise by, or representation by BlackRock whether as to past or future performance results. Analysis has been run on index level. It is not possible to invest directly in an index. The return of your investment may increase or decrease as a result of currency fluctuations.

Case study 1: adding thematic ETFs to a simulated portfolio

Fitting each of the 4 ETFs individually into the Equity allocation of the Starting Portfolio



(13%), MSCI World Index (16%), MSCI Ediope ex OK Index (13%), MSCI World Index (16%), MSCI Pacific Index (1%), MSCI EM Index (2%). **Fixed Income**: Bloomberg Barclays Euro Agg Index (20%), Bloomberg Barclays Global Agg Index (10%), JP Morgan EMBI Global Core Index (5%). **Alternatives**: FTSE EPRA/NAREIT Developed Dividend+ Index (5%), HFRX Global Hedge Fund Index (5%).

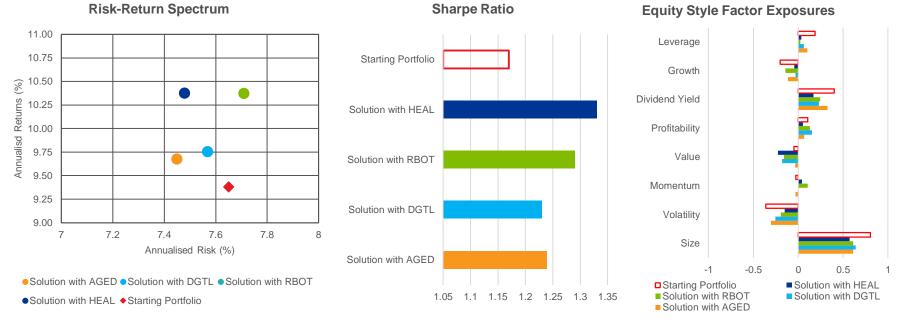
Solution with Solution with Solution with Solution with Starting HEAL RBOT DGTL AGED Portfolio All **Total Equity** 45% 45% 45% 45% 45% 45% **Broad Equities** 45% 35% 35% 35% 35% 35% 10% 2.5% HEAL ----RBOT 10% 2.5% ----DGTL 2.5% --10% --10% 2.5% AGED --

*Starting Portfolio contains hypothetical portfolio holdings for a GBP investor and may not be representative of the client's investment, thus, the results of the analysis presented may vary. If you would like to explore solutions with your specific portfolio and in your base currency, please contact your BlackRock Sales representative and ask for a BPAS consultation. The information contained in this communication is derived from proprietary and non-proprietary sources considered by BlackRock to be reliable, but is not necessarily all inclusive, is not guaranteed as to accuracy and may be subject to change. Reliance upon information in this communication is at the sole discretion of the recipient. You should seek independent investment, legal and tax advice prior to taking any investment decision.

Case study 1: adding thematic ETFs to a simulated portfolio *Enhancement of the portfolio's risk-return characteristics*

Enhanced risk-return characteristics:

- > All portfolio solutions demonstrate an improvement in risk-return characteristics compared to the Starting Portfolio.
- Whilst all portfolio solutions show improved Sharpe ratio compared to the Starting Portfolio, Solution with HEAL shows highest improvement in Sharpe ratio.
- Varying factor exposures can be seen in factors such as Momentum, Value and Growth, whilst all solutions show reduction in Volatility and Leverage compared to the Starting Portfolio.



The figures shown relate to simulated past performance. Past performance is not a reliable indicator of current or future results and should not be the sole factor of consideration when selecting a product or strategy.

Source: BlackRock. Periods used: 03/11/2014 - 31/12/2017 Currency: GBP. Frequency: Monthly.

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