



hanetf

Securing the Fourth Industrial Revolution

Cyber Security

2020

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Overview

The fourth industrial revolution is the current environment where disruptive technology trends such as the Internet of Things (IoT), Robotics, Artificial intelligence (AI), Future Cars/Autonomous Vehicles, Blockchain, Cloud Computing, Genomics and Social Media are changing the way we live and work.

Unlike previous industrial revolutions, these technologies are rapidly combining to create an accelerating, virtuous cycle of nearly unlimited disruption. While previous industrial revolutions were often localized, today is interconnected and global and its impact is already visible in homes and businesses across the world.

This is a short guide to help investors understand the main sectors of the fourth industrial revolution and their features, applications, and growth potential:

Robotics & Automation

Genomics

Future Transport

Social Media

Cloud Computing

Blockchain

Cyber Security

Augmented & Virtual Reality

Cyber Security Theme

The cybercrime threat is often identified by CEOs as the leading risk factor facing enterprises today. As companies grow increasingly reliant on cloud-based software and as billions of new internet-connected devices are launched (Internet-of-Things), the scope for malicious cyber activity is increasing exponentially.

Cybercrime includes:

Hacking - shutting down or misusing websites and computer networks,

Identity theft/ phishing - using fake email messages to get sensitive information from users

Malware /ransomware attacks - inserting malicious code to damage a computer system, surveillance and eavesdropping or electronic money laundering.

While an estimated 75% of cyber-crime is carried out for financial gain, up to 25% is put down to state-sponsored espionage. ¹

With military and police services introducing more robotic technologies, drones and anonymous vehicles; cyber security is transitioning from being a commercial to a national security concern for many governments.

The scale of the issue is already huge: data breaches are estimated to have compromised 4.1 Billion records in the first half of 2019² - up 11% year-on-year and cyber-crime is predicted to cost the global economy an astonishing \$6 Trillion a year by 2021.

¹ <https://www.whitehouse.gov/wp-content/uploads/2018/03/The-Cost-of-Malicious-Cyber-Activity-to-the-U.S.-Economy.pdf>

² <https://www.varonis.com/blog/cybersecurity-statistics/>



With the average data breach costing a company \$3.9 million, mitigating the risk of cybercrime is a top priority for business leaders.

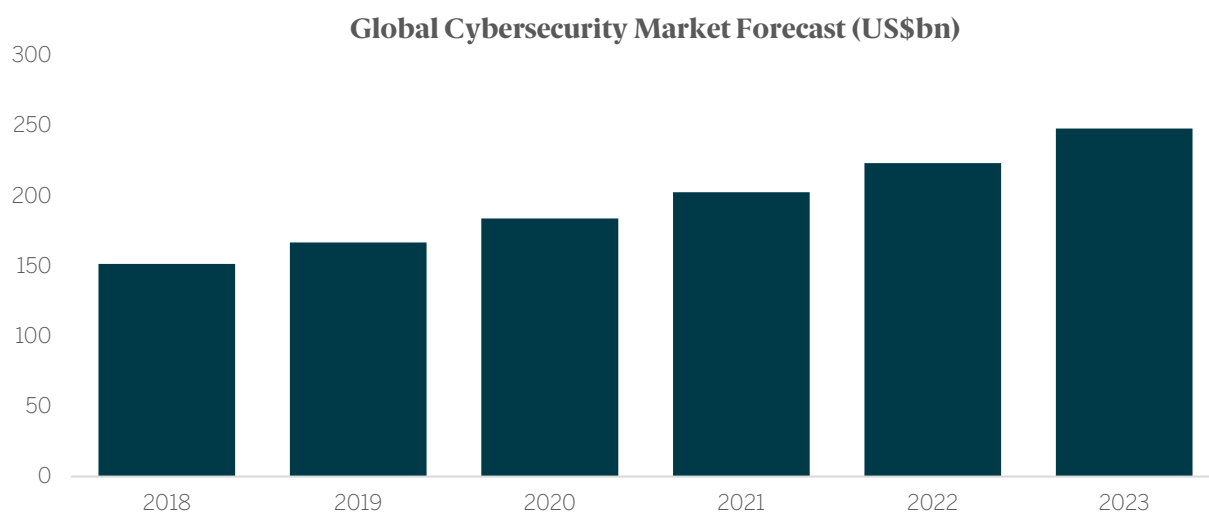
Recent Examples:

- In 2016, 3 billion Yahoo! accounts were hacked in one of the largest data breaches in history
- In 2016, Uber reported that hackers stole the information of over 57 million drivers and riders
- In 2017, 148 million consumers were affected by the Equifax breach
- In 2018 Under Amor reported its fitness app was hacked, impacting 150 million users
- In 2018 Marriott Hotels reported that up to 500 million guests had details compromised, including credit cards details and passport numbers
- In 2020, the Australian Defence Force was itself forced offline for 10 days as it responded to data breach that exposed personal details of tens of thousands of its members³
- It is estimated that in March 2020 alone, 832 million digital records were breached worldwide⁴.

Growth of the Cyber Security Sector

It has become imperative for organisations and individuals to protect themselves against the widespread economic, operational and reputational damages caused by cyber-attacks and investment in cyber security measures is becoming one of the largest spends in IT departments around the world.

In 2020 size of the cyber security market is estimated to be \$173 Billion. While analyst estimates vary, there is broad consensus that the industry will continue to benefit from huge tailwinds, reaching anywhere between \$250 Billion and \$1 Trillion per year by 2025.⁵



For illustrative purposes only
Source: Statista 2020

³ <https://www.abc.net.au/news/2020-03-04/australian-defence-military-database-shut-down-amid-hack-fears/12021742>

⁴ <https://www.itgovernance.co.uk/blog/list-of-data-breaches-and-cyber-attacks-in-march-2020-832-million-records-breached>

⁵ <https://cybersecurityventures.com/cybersecurity-market-report/>



As ransomware hits more companies, malware becomes refocussed on mobile and smartphones and billions of Internet-of-Things devices connect, the scope for the cyber security market to grow seems assured and 62% of companies plan to increase cyber security spend this year⁶

Investing in Cyber Security

The increased threat of cybercrime and the growth of internet-connected devices AI has spurred investor interest in the Cyber Security theme. Investors who see long-term opportunity in this theme can consider an allocation to The HAN-GINS Tech Megatrend Equal Weight UCITS ETF (ITEK). ITEK includes Cyber Security as part of 8 transformational technology trends that are reshaping the world alongside Cloud Computing & Big Data, Robotics & AI, Future Cars, Genomics, Social Media, Blockchain, Augmented & Virtual Reality.



⁶ <https://www.csoonline.com/article/3520988/cybersecurity-spending-trends-2020.html>



Fund Details

When you trade ETFs, your capital is at risk

EXCHANGE	BB CODE	RIC	ISIN	CURRENCY	INCOME
London Stock Exchange	ITEK LN	ITEK.L	IE00BDDRF700	USD	Acc
London Stock Exchange	ITEP LN	ITEP.L	IE00BDDRF700	GBP	Acc
Borsa Italiana	ITEK IM	ITEK.MI	IE00BDDRF700	EUR	Acc
XETRA	T3KE GY	T3KE.DE	DE000A2N5XE0	EUR	Acc
SIX	ITEK SW	ITEK.S	IE00BDDRF700	CHF	Acc

- [ITEK Factsheet](#)
- [ITEK Video](#)
- [ITEK Fund Page](#)

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Founded by two of Europe's leading ETF entrepreneurs, Hector McNeil and Nik Bienkowski, HANetf provides a complete operational, regulatory, distribution and marketing solution for asset managers who want to successfully launch and manage UCITS ETFs.

HANetf's full products list includes:

Name	TER	Bloomberg Codes				
		LSE \$	LSE £	Borsa €	XETRA €	SIX
The Emerging Markets Internet & Ecommerce UCITS ETF	0.86%	EMQQ LN	EMQP LN	EMQQ IM	EMQQ GY	EMQQ SW
HAN-GINS Tech Megatrend Equal Weight UCITS ETF	0.59%	ITEK LN	ITEP LN	ITEK IM	T3KE GY	ITEK SW
HAN-GINS Cloud Technology UCITS ETF	0.59%	SKYY LN	SKYP LN	SKYY IM	5XYE GY	SKYY SW
HAN-GINS Indxx Medical Innovation UCITS ETF	0.59%	WELL LN	WELP LN	WELL IM	W311 GY	WELL SW
KMEFIC FTSE Kuwait UCITS ETF	0.80%	KUW8 LN	KUWP LN	KUW8 IM	KUW8 GY	-
The Medical Cannabis & Wellness UCITS ETF	0.80%	CBDX LN	CBDP LN	-	CDSX GY	CBDX SW
The Royal Mint Physical Gold ETC	0.22%	RMAU LN	RMAP LN	-	RM8U GY	-
BTCetc Bitcoin Exchange Traded Crypto*	2.00%	-	-	-	BTCE GY	-

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