



# **Digital Infrastructure and Connectivity UCITS ETF | DIGI**

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The Issue Documentation, ETF Prospectus and Bitcoin Prospectus can all be downloaded from [www.hanetf.com](http://www.hanetf.com).

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## About Partners



Quikro Ltd is an investor in the financial services industry. Its purpose is to sponsor the launch and development of innovative exchange-traded funds (ETFs) listed primarily in Europe. Quikro's ETFs aim to outperform the broader market by employing novel alpha-seeking investment strategies structured around long-term defensible tailwinds whether economic, demographic, social or otherwise.

Quikro does not sponsor any ETFs unless they are unique and follow an investment thesis not easily accessible through other ETF providers. Quikro is mindful of the importance of sustainable, responsible investment and believes that underlying entities that take Environmental, Social and Corporate Governance (ESG) represent better long-term investments for its ETFs.



Tematica Research LLC is an independent investment research firm focused on the development of thematic investment research and indices through a top-down (Global Macro) and bottom-up (Industry and Company Fundamentals) approach.

This approach to thematic investing identifies the structural changes and pain points that arise from the intersection of evolving demographics, psychographics, technology, economics, and public policy. These changes and pain points result in pronounced secular market shifts that impact and drive consumer and investor behavior, forcing companies to make fundamental changes to their businesses in order to succeed.

# About DIGI

**The first UCITS ETF focusing exclusively on digital infrastructure and connectivity\*.**

Digital Infrastructure and Connectivity UCITS ETF is a UCITS compliant exchange traded fund domiciled in Ireland.

The fund tracks the **Tematica Bita Digital Infrastructure and Connectivity Index (TBDIGI)** (Net Total Return).

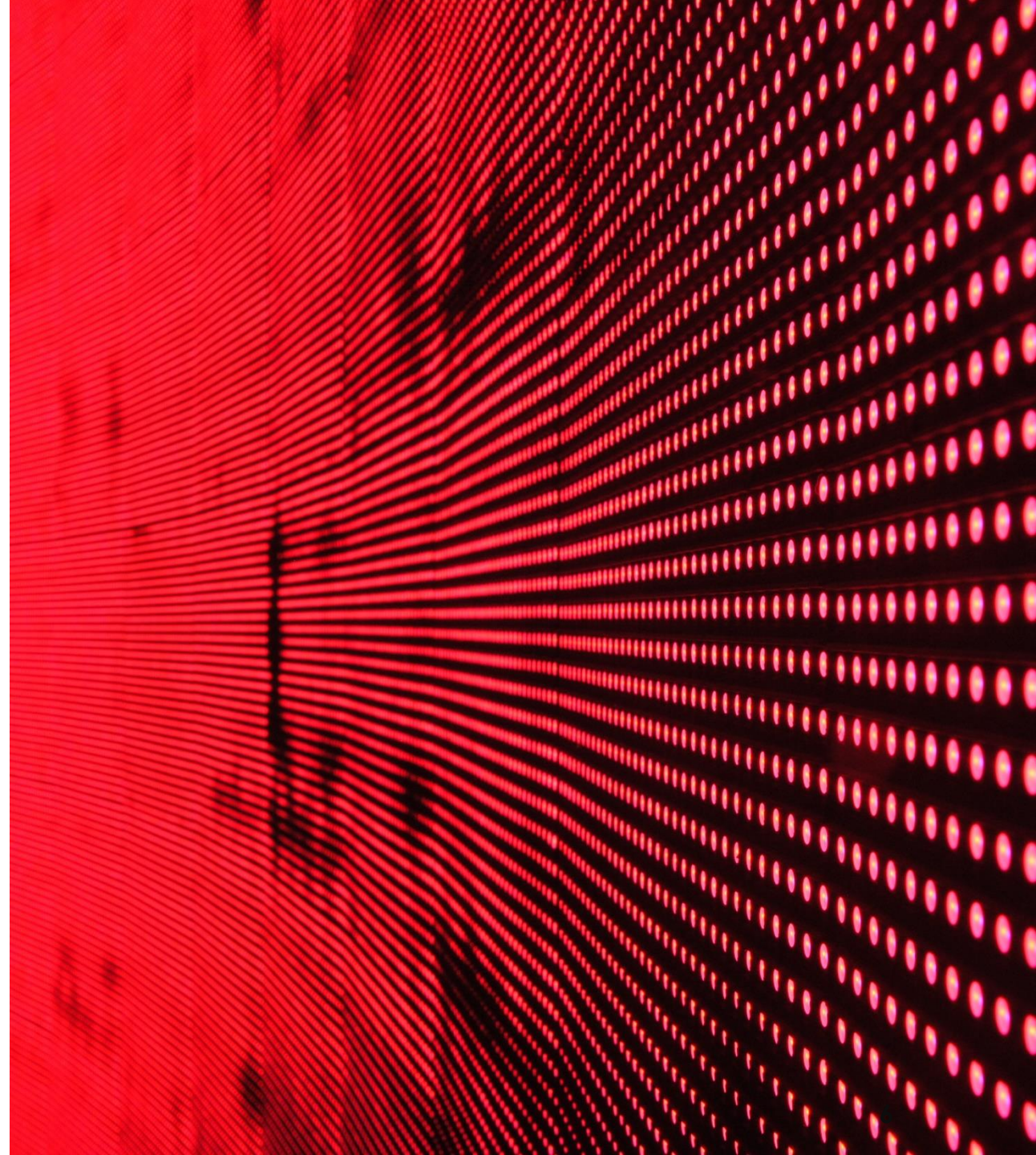
This revolutionary ETF captures companies that are positioned to benefit most from the explosive growth of the digital infrastructure virtuous circle of expanding users, data, applications, and bandwidth that drives exponential network growth and development of new technologies.

DIGI is listed on London Stock Exchange, Borsa Italiana, XETRA and SIX

# Investing in Digital Infrastructure and Connectivity:

An introduction to the infrastructure that makes the internet a reality

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## Why Digital Infrastructure?

- Growth in online and mobile commerce
- Work from anywhere, learn from anywhere
- Social media and streaming content consumption
- Rise of the emerging market middle class
- FinTech, digital payments, crypto currency
- Autonomous vehicles
- Remote management of mission critical operations
- Smart video surveillance (VSaaS)
- Ubiquitous sensors

**What do these all have in common?**

# The Virtuous Cycle of Connectivity and Use Drives Exponential Growth

More **apps** drive the creation of more **data**

- Smart home/office/city
- Biometric Sensors
- Semiautonomous/Autonomous Manufacturing
- Semiautonomous/Autonomous Vehicles
- IoT

The more **data** that exists

→ the more **apps** developed to monetize data

The more **data** and **apps**

→ greater demand for **bandwidth**

The more **bandwidth**

→ the more **apps** developed





# 2021 Web Traffic In a Minute

Every day more of our lives move online

We work, shop, learn, connect and share more in the virtual world than in the physical world with every passing year

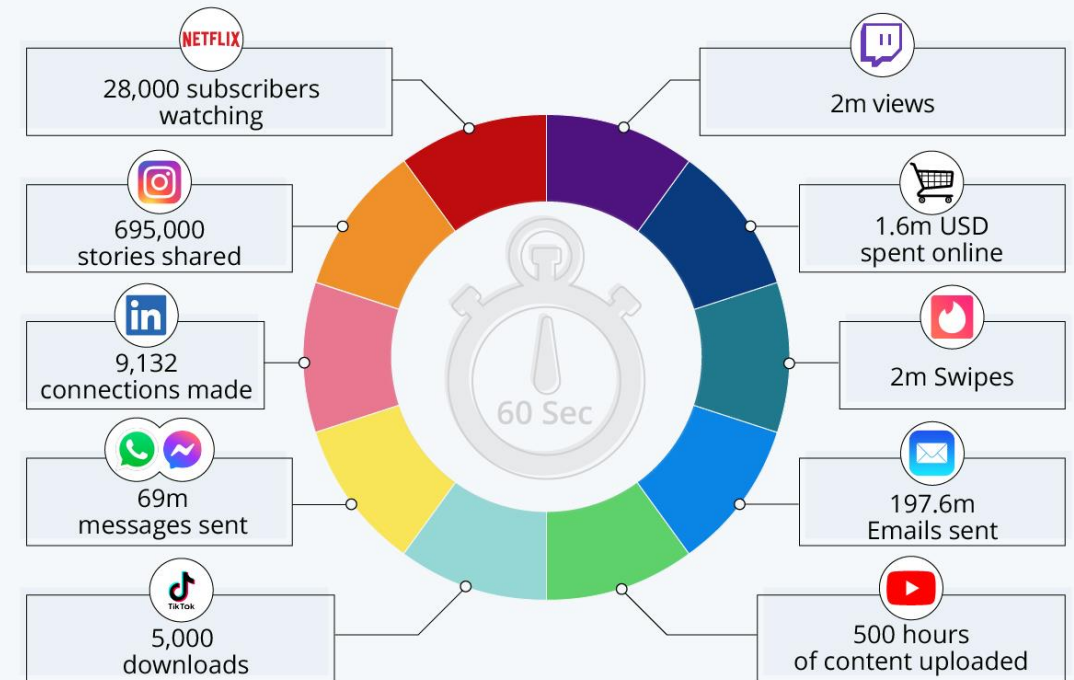
The pandemic has only accelerated that migration

*According to a March 2021 report from ACI Worldwide, more than 70.3 billion real-time & digital payments transactions were processed globally in 2020 a 41% increase from 2019*

For illustrative purposes only  
Source: DOMO

## A Minute on the Internet in 2021

Estimated amount of data created on the internet in one minute



Source: Lori Lewis via AllAccess



# Annual Global Wireless Infrastructure Revenue

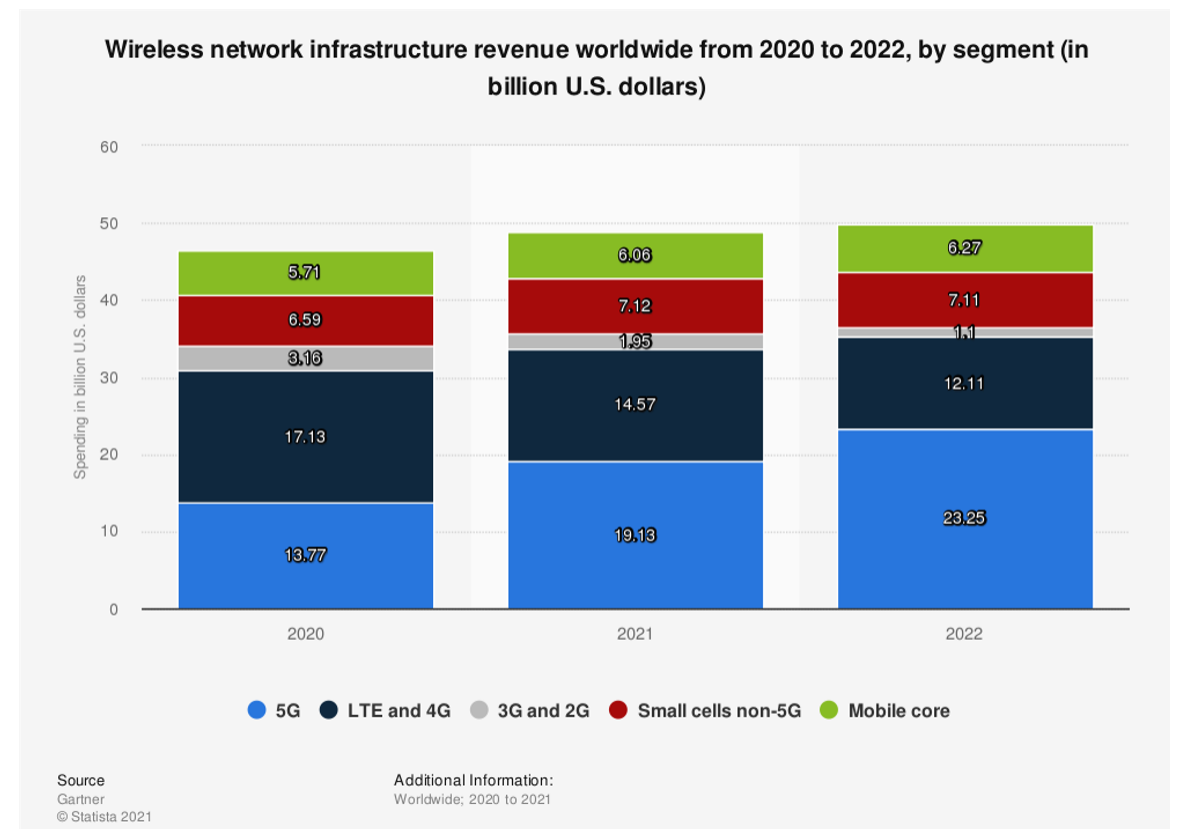
The build-out of existing networks will continue and the deployment of newer network and backhaul technologies will be imperative to handle the coming data explosion.

According to GSMA Intelligence, between 2020-2025, mobile operators will invest around \$1.1 trillion worldwide in mobile capex, excluding spectrum acquisitions, with roughly 80% spent on 5G networks\*

“ Many customers had planned to grow their network by 30% to 40% over the next few years, assuming a similar growth in traffic, but Covid-19 brought in that traffic growth overnight.”

- Sandy Motely, President of Nokia Fixed Networks\*\*.

\*The Mobile Economy 2020” Available at [https://www.gsma.com/mobileeconomy/wp-content/uploads/2020/03/GSMA\\_MobileEconomy2020\\_Global.pdf](https://www.gsma.com/mobileeconomy/wp-content/uploads/2020/03/GSMA_MobileEconomy2020_Global.pdf)  
\*\*<https://uk.reuters.com/article/us-nokia-broadband/nokias-broadband-business-boosted-as-covid-19-pressures-networks-idUKKBN23F13Q>



For illustrative purposes only  
Source: Gartner/Statista, 2021

## Digital Infrastructure Developments

- National security and competitiveness
  - EU needs to invest **€300 billion** into telecom **infrastructure** by 2025 to rollout 5G
  - The pandemic has spurred governments to update and upgrade existing systems as well as looking to develop digital identity systems all of which require spend on both hardware and software
  - Biden Administration has called for **100% high speed broadband coverage** and has managed to pass a bill to spend **\$65 billion** to get every American connected

## Digital Infrastructure Developments

- Accelerating demand for bandwidth
  - March 2021 Microsoft survey across 31 countries found **73% of workers want remote work** options and **Remote Job Postings** on LinkedIn increased **more than 5x** during pandemic with **46% of remote workers** now planning to move to a new location within the year because they can
  - More than **70.3 billion real-time & digital payments transactions** processed globally in 2020 – a 41% increase over 2019 (March 2021 report from ACI Worldwide)
  - 63% of organisations abandoned on-premise video surveillance options in 2020 for cloud-based options
  - Cloud PC - access a Windows desktop remotely and use software such as Microsoft Office

## 3<sup>rd</sup> Quarter Earnings

### Taiwan Semiconductor (TSM)

*“Our Third quarter business was mainly supported by strong demand across all four growth platforms, which are smartphone, HPC (high-performance computing), IoT (Internet of Things) and automotive-related applications”*

### ASML Holding (ASML)

*“The Demand continues to be high. The ongoing digital transformation and current chip shortage fuel the need to increase our capacity to meet the current and expected future demand for Memory and for all Logic nodes. For the full year, we are on track to achieving growth approaching 35%.”*

### Ericsson (ERIC)

*“We continue to see very good momentum in deployment of 5G around the world. Of course, the impact on the supply chain from the disturbances also of course hit networks and we expect that to pose a challenge as well in the fourth quarter”*

### Verizon (VZ)

*“On the commercial front, we’ve got great momentum in the 5G adoption, with over 25% of our consumer phone base using a 5G-capable device. This is tracking well ahead of 4G adoption as I have said earlier. For context, 12 months after 4G launch, 10% of the devices were on 4G.”*

### Nvidia (NVDA)

*“We announced the NVIDIA DPU programmable data center processor, and the planned acquisition of ARM, creator of the worlds most popular CPU. We are positioning NVIDIA for the age of AI, when computing will extend from the cloud to trillions of devices”*

# 5G goes global & is more than just smartphones

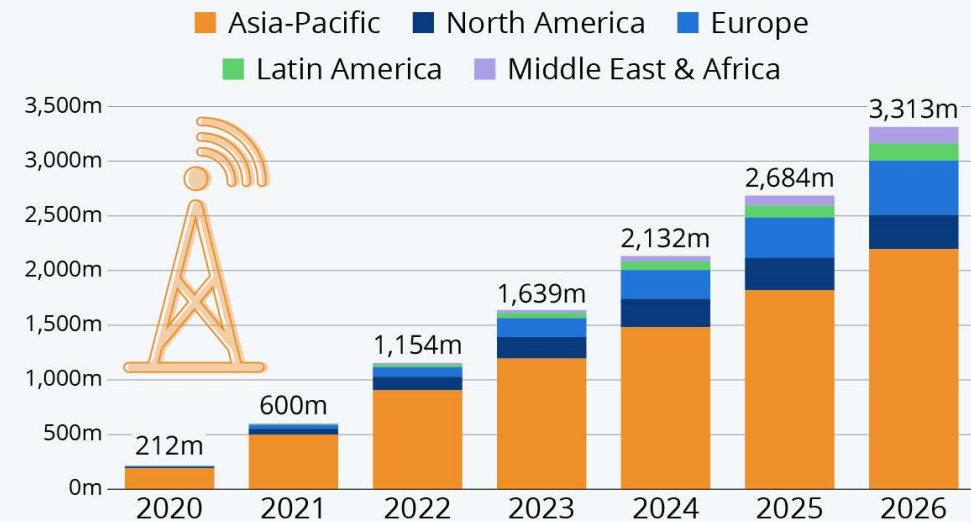
By 2025, GSMA Intelligence forecasts 25.1 billion connected devices up from 10.3 billion in 2018\*

IoT, Augmented Reality, Virtual Reality, Big Data, AI and the start of autonomous vehicles

\*[www.gsma.com/newsroom/press-release/new-gsma-study-operators-must-look-beyond-connectivity-to-increase-share/](http://www.gsma.com/newsroom/press-release/new-gsma-study-operators-must-look-beyond-connectivity-to-increase-share/)

## Global 5G Adoption to Triple in 2021

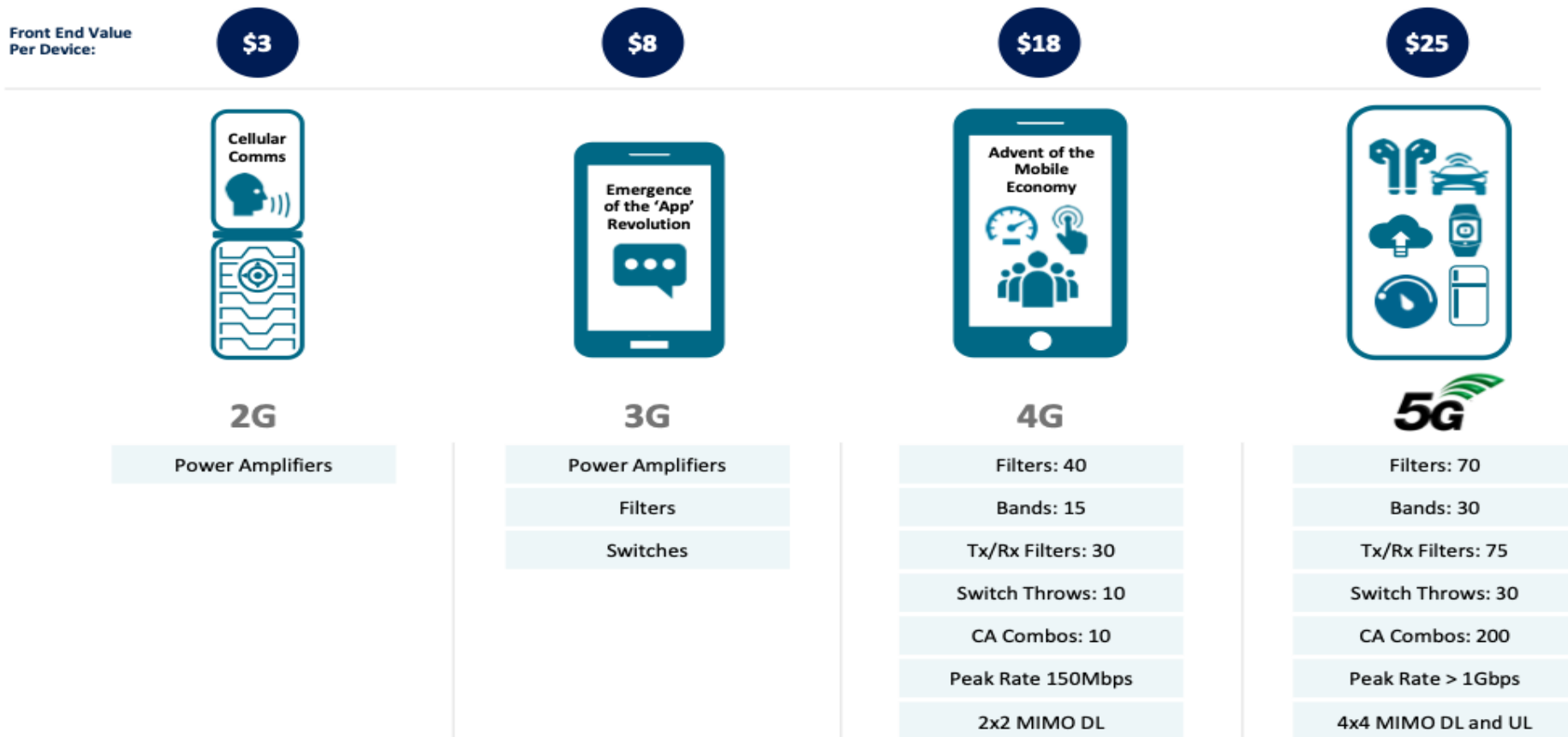
Forecast of 5G smartphone subscriptions by region (in millions)



Forecast as of November 2020  
Source: Ericsson Mobility Report

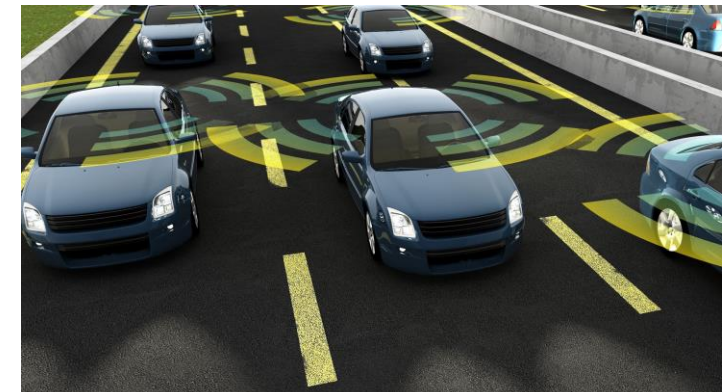
For illustrative purposes only  
Source: Statista

# 5G drives greater chip content per device



For illustrative purposes only  
 Source: Skyworks

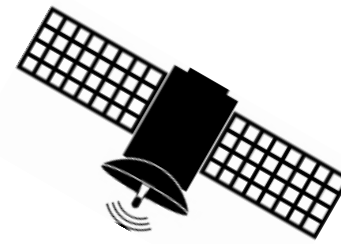
# We Always Need More





# The Six Components of Digital Infrastructure and Connectivity

Sub-theme	Constituents	Description	Examples
Data Centers	6	The connective hubs and backbone that allow for the communication, processing, backup, and distribution of data across vast digital networks.	Equinix (EQIX), Digital Realty Trust (DLR)
Data networks	20	The mobile, cable, and fiber networks that are the connective tissue of the digital infrastructure.	F5 Networks (FFIV), ACI Worldwide (ACIW)
Digital connectivity	7	Communication chips that enable cellular, WiFi, Bluetooth, and Near Field Communication (NFC) and other communications protocols that connect our wired and mobile devices to the digital infrastructure.	Broadcom (AVGO), Skyworks (SWKS)
Digital transmission	22	The transceivers, multiplexers, servers, routers, fiber, card readers and receivers that comprise the connective hubs.	Cisco Systems (CSCO), Ericsson (ERIC)
Digital processing	4	Processor chips utilized in routers, network switches, and other digital infrastructure equipment.	NVIDIA (NVDA), Intel (INTC), Mediatek (2454)
Digital services and intellectual property	17	Platforms, essential services and other solutions that support digital infrastructure. This also includes R&D intensive companies, and their licensing business models that develop cutting-edge digital and networking technologies.	Qualcomm (QCOM), InterDigital (IDCC)

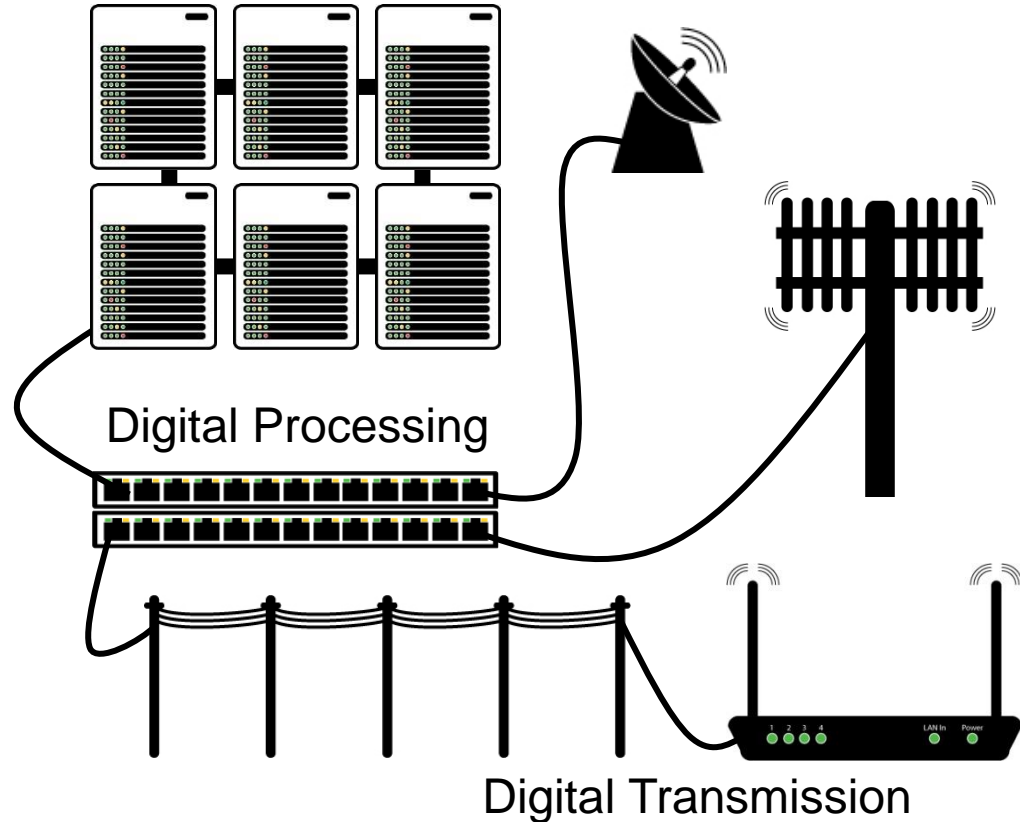


# Global Data Infrastructure

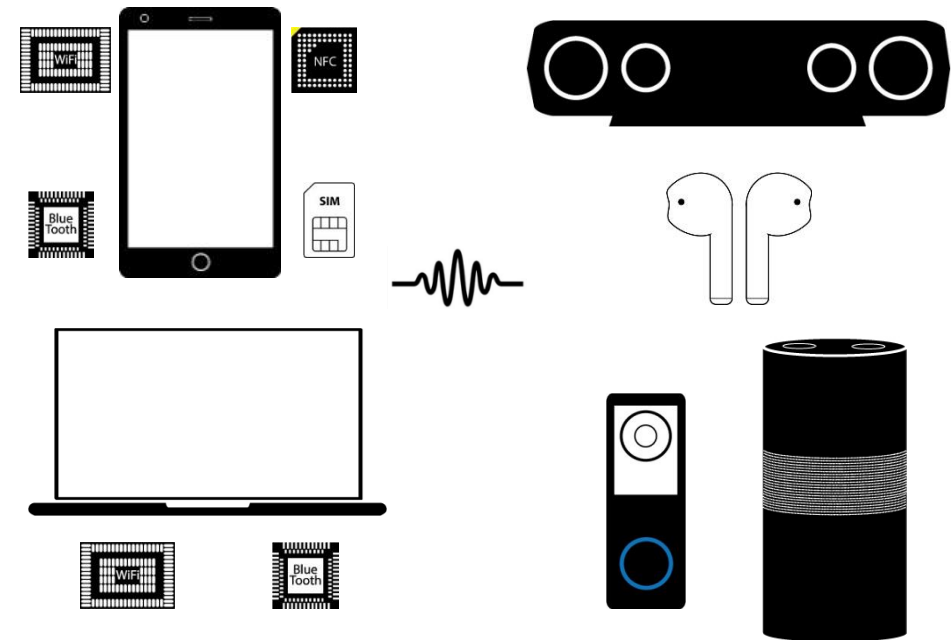
## Digital Services and Intellectual Property

Data Centers

Data Networks



## Digital Connectivity



**DIGI**

Digital Infrastructure and  
Connectivity UCITS ETF

**IE00BL643144**

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# About DIGI

## Why DIGI?

- ✓ **Exposure to digital megatrends:** DIGI provides investors with exposure to companies at the forefront of the digital infrastructure revolution. The buildout of 5G and beyond will dramatically accelerate the trends of digitalisation and virtual communication and with that arises a growing and insatiable need for digital infrastructure and connectivity to support these digital activities and the immense amount of data flowing behind them.
- ✓ **A unique investment proposition:** DIGI offers investors access to a basket of companies that spans data centres, networking equipment and related hardware, corresponding essential services and IP focused companies. The unique, transparent, rules based Tematica BITA Digital Infrastructure and Connectivity Index (TBDIGI) is broader than other digital segments such as 5G or telemedicine. It seeks to identify those companies that will benefit from the explosive growth in data traffic across all digital segments as next-generation connective technologies roll out, resulting in ever-increasing demand for better digital infrastructure and connectivity solutions.
- ✓ **Potential returns:** The TBDIGI Index returned 47.69% over the last 12 months\*  
Past performance is no guarantee of future performance.

\*as of 31.12.2020

Source: BITA

Past performance is no guarantee of future performance.

## The Risks

- 1. Thematic ETFs are exposed to a limited number of sectors and thus the investment will be concentrated and may experience high volatility
- 2. Investors' capital is fully at risk and may not get back the amount originally invested
- 3. Exchange rates can have a positive or negative effect on returns
- 4. The value of equities and equity-related securities can be affected by daily stock and currency market movements
- 5. Further risks are disclosed in the KIID and Prospectus

Please note this is not an exhaustive list of risks. Other risks may apply.

Please consult the KIID and Prospectus for more details

# Methodology

## Index Universe

For inclusion in the Index universe, companies must **derive at least 80% of their earnings** or revenues from the **digital infrastructure and connectivity sector**.

Sub-Sectors include:

**Data Centers**

**Data Networks**

**Digital Connectivity**

**Digital Transmission**

**Digital Processing**

**Digital Services & Intellectual Property**

## Constituent Analysis

Companies are given a thematic score, measured by the percentage of operating profit generated from each Sub-Sector.



# Methodology

## Screening

- Min market cap of \$100m
- ADTV over \$1m
- Minimum free float of 20%.

Any constituent with a market cap > 200% of the average market cap of the top ten market cap ranked constituents is removed.

## Weighting

Sub-Sectors are weighted based on their **relative market capitalization**.

Stocks within each sub-sector are **equal weighted**

## Capping

A single issuer **cannot exceed 4%** of total index weight.

The cumulative weight of all group entities or issuers individually representing more than 4% of the Index cannot exceed 40% of the total index weight.

## Reconstitution and re-balancing

**Semi-annual reconstitution** and re-balance third Friday of June and December

**DIGI**

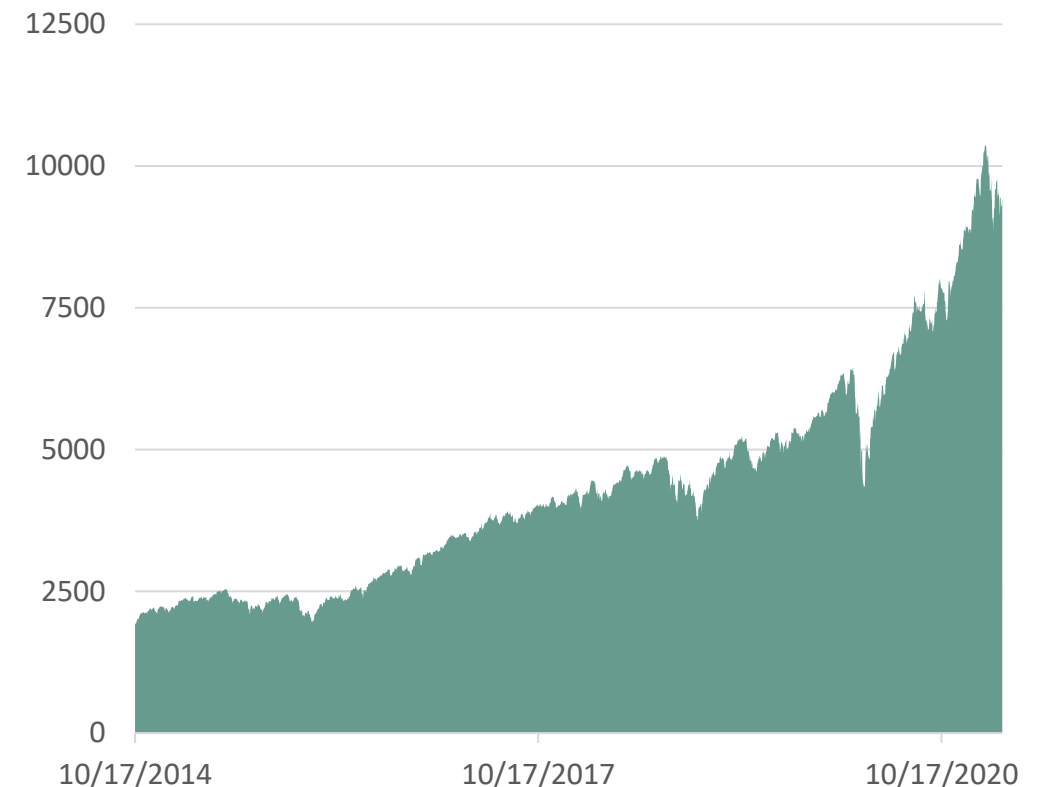
# DIGI Information

## Index Performance and Risk

Period	Annualized Net Return	Volatility
2015	6.49%	17.24%
2016	33.11%	20.58%
2017	28.16%	12.94%
2018	0.14%	21.36%
2019	49.28%	18.24%
2020*	47.22%	35.29%
2021 (To 30.11.2021)	16.47%	26.64%

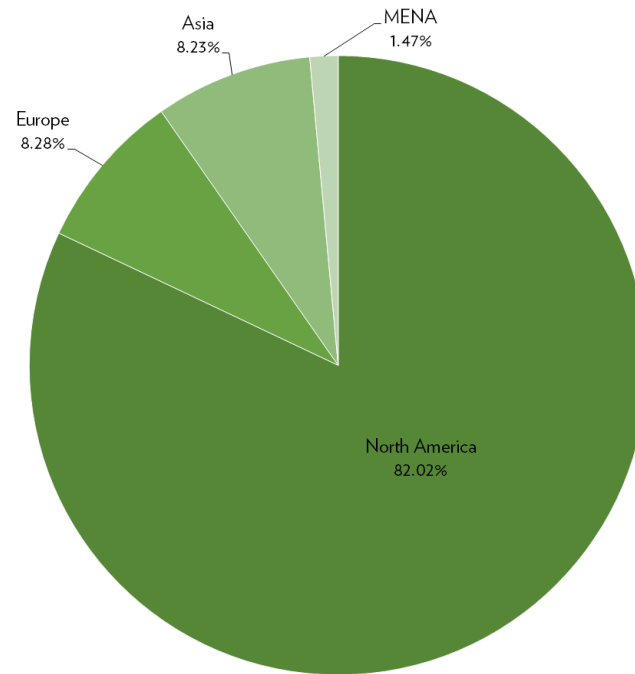
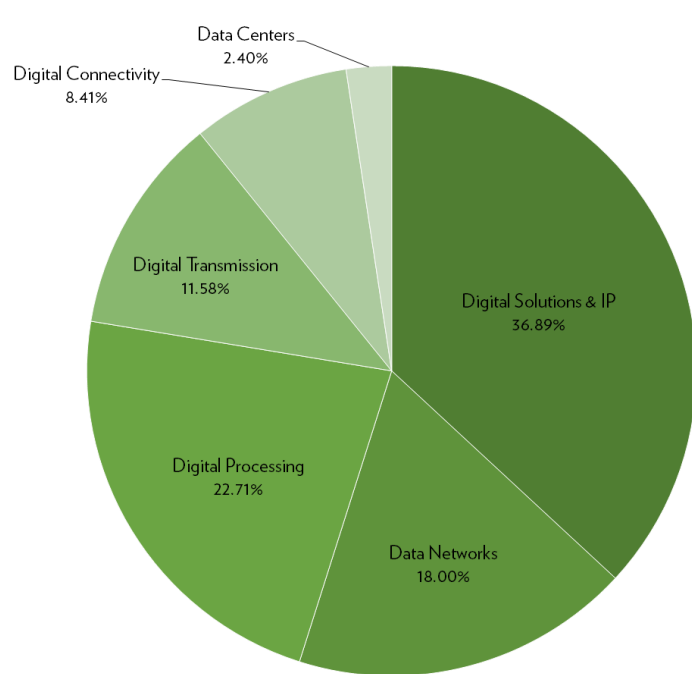
\* DIGI Fund inception was on 08.10.20

Tematica BITA Digital Infrastructure Index



Performance before inception is based on back tested index data. Back testing is the process of evaluating an investment strategy by applying it to historical data to simulate what the performance of such strategy would have been. Back tested data does not represent actual performance and should not be interpreted as an indication of actual or future performance. Past performance for the index is in USD. **Past performance is not an indicator for future results and should not be the sole factor of consideration when selecting a product.** Investors should read the prospectus of the Issuer (“Prospectus”) before investing and should refer to the section of the Prospectus entitled ‘Risk Factors’ for further details of risks associated with an investment in this product. Source: Bloomberg / HANetf. Data as of 30/11/2021

# DIGI Information



## Key Facts

Asset Class	Equity
Base Currency	USD
Inception Date	08/10/2020
Index	Tematica BITA Digital Infrastructure Index
Income Treatment	Accumulating
TER	69 bps
Rebalancing Frequency	Semi-Annually
Domicile	Dublin, Ireland
Replication Style	Physical
# of Constituents	80



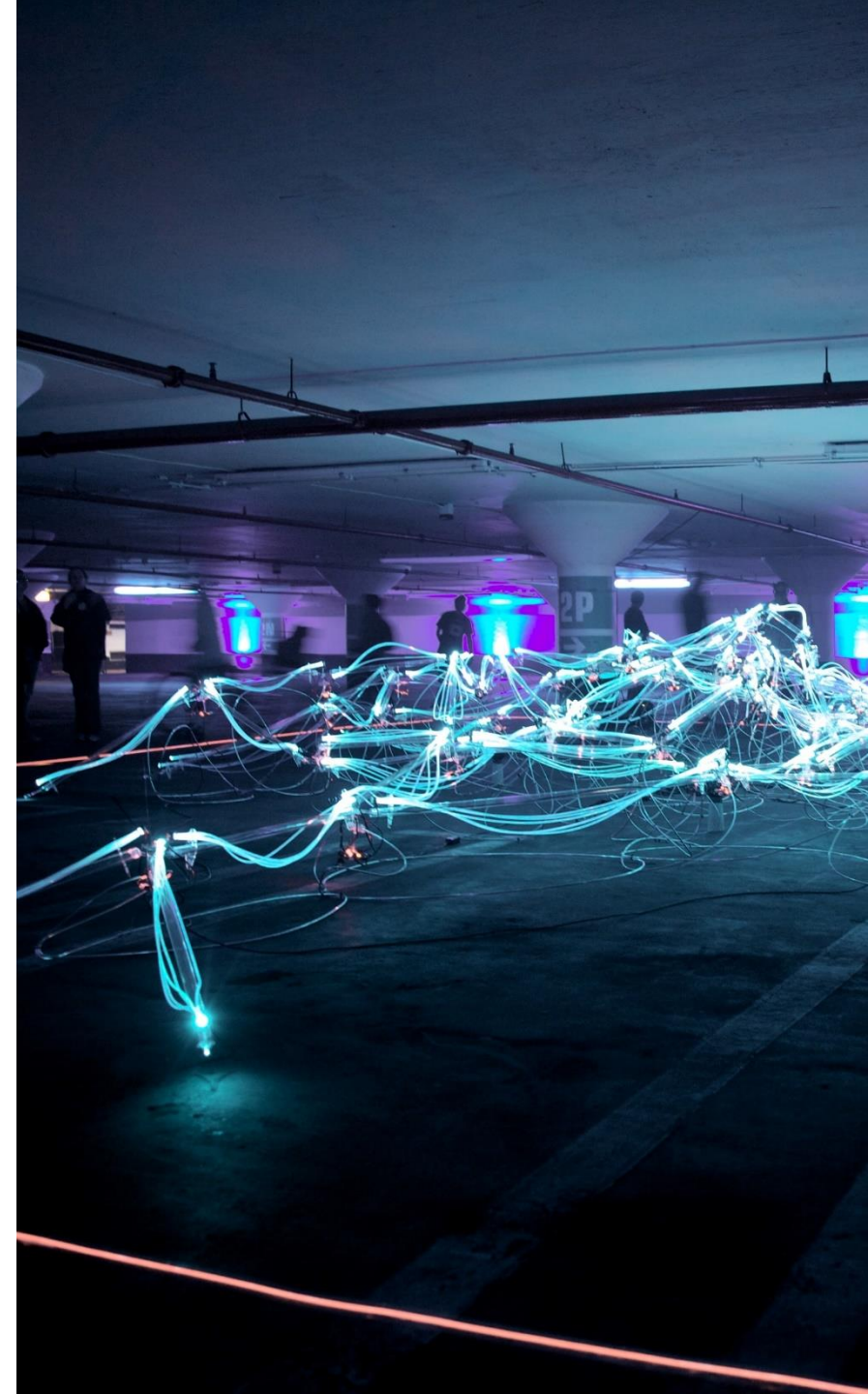
## Trade DIGI

Exchange	BBG Code	RIC	ISIN	Valoren	SEDOL	Currency	TER
London Stock Exchange	DIGI LN	HADIGI.L	IE00BL643144	-	BJP4Y29	USD	0.69%
London Stock Exchange	PIGI LN	PIGI.L	IE00BL643144	-	BJP4Y18	GBP	0.69%
Deutsche Boerse Xetra	DIGI GY	DIGI.DE	IE00BL643144	-	BMW4W85	EUR	0.69%
Borsa Italiana	DIGI IM	DIGIT.MI	IE00BL643144	-	BMW4W74	EUR	0.69%
SIX Swiss Exchange	DIGI SW	DIGICHF.S	IE00BL643144	57473380	BMC7PC9	CHF	0.69%

# Summary

- ✓ DIGI provides diverse exposure to the digital infrastructure and connectivity universe
- ✓ The first UCITS ETF in digital infrastructure and connectivity\*
- ✓ DIGI provides exposure to companies at the forefront of the digital infrastructure revolution which allow for 5G and Cloud to continue growing exponentially
- ✓ Six key sub-themes
- ✓ Capital at risk, Past performance is no guarantee of future performance

Source: ETFGI as of 02.10.2020



# Appendix



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# Liquidity Ecosystem

## Authorised Participants

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RBC Europe	+44 (0) 207 029 0500	cmuklondonetf@rbccm.com
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Societe Generale	+33 1 42 13 52 86	europe.etf@sgcib.com
Citigroup Global Markets	+44 (0) 207 986 8839	europe.etf.trading@citi.com
Flow Traders	+31 207 996 777	fit@flowtraders.com
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ITI Capital	+44 (0) 207 562 8000	info@iticapital.com

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BAML	+44 (0) 207 995 4474	dg.etf_trading_london@bankofamerica.com
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Cantor Fitzgerald	+44 (0) 207 894 8744	etfeurope@cantor.co.uk
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Goldman Sachs	+44 (0) 207 051 8220	gsetfs@gs.com
Macquarie Bank	+44 (0) 203 023 8885	bachir.binebine@macquarie.com
Optiver	+31 20 708 7820	etf@optiver.com
UBS AG	+44 (0) 207 567 9292	ol-gse-sales-emea@ubs.com
Unicredit Bank	+39 02 8862 0731	etftrading@unicredit.eu

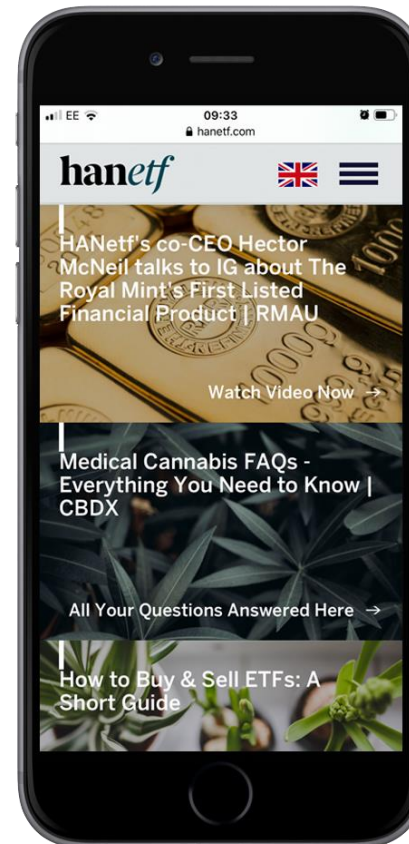
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### Italian Sales:

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### Nordics & French Speaking Switzerland

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2. HANetf ETC Securities plc, a public limited company incorporated in Ireland, issuing under the terms in the Base Prospectus approved by the Central Bank of Ireland and the final terms of the relevant series ("Issue Documentation") is the issuer of the precious metals ETCs. Investors should read the latest version of the Issue Documentation before investing and should refer to the section of the Base Prospectus entitled 'Risk Factors' for further details of risks associated with an investment in the ETCs. Any decision to invest should be based on the information contained in the Issue Documentation.

3. ETC Issuance GmbH, a limited liability company incorporated under the laws of the Federal Republic of Germany, issuing under the terms in the Prospectus approved by the Bundesanstalt für Finanzdienstleistungsaufsicht ("BaFin") and the final terms ("Bitcoin Prospectus") is the issuer of the Bitcoin ETCs. Investors should read the latest version of the Bitcoin Prospectus before investing and should refer to the section of the Bitcoin Prospectus entitled 'Risk Factors' for further details of risks associated with an investment in the Bitcoin ETCs. Any decision to invest should be based on the information contained in the Bitcoin Prospectus.

The Issue Documentation, ETF Prospectus and Bitcoin Prospectus can all be downloaded from [www.hanetf.com](http://www.hanetf.com).

The decision and amount to invest in any Product should take into consideration your specific circumstances after seeking independent investment, tax and legal advice.