

The following list of symbols specifies which firms are registered to supply liquidity for each symbol in 2021-05-07:

➤ 00XPd - WisdomTree Natural Gas - EUR Daily Hedged

Optiver V.O.F. (Program Three)

➤ 00XTd - WisdomTree Brent Crude Oil - EUR Daily Hedged

Optiver V.O.F. (Program Three)

➤ 2INVEe - Lyxor IBEX 35 Doble Inverso Diario UCITS ETF

Optiver V.O.F. (Program Three)

➤ 3BALm - WisdomTree EURO STOXX Banks 3x Daily Leveraged

HRTEU Limited (Program Two)

➤ 3INl - 3i Infrastructure PLC

Citadel Securities (Europe) Limited (Program Three)

➤ 3ITLm - WisdomTree FTSE MIB 3x Daily Leveraged

HRTEU Limited (Program Two)

➤ 3ITSm - WisdomTree FTSE MIB 3x Daily Short

HRTEU Limited (Program Two)

➤ 3NGLm - WisdomTree Natural Gas 3x Daily Leveraged

HRTEU Limited (Program Two)

➤ 3NGSm - WisdomTree Natural Gas 3x Daily Short

HRTEU Limited (Program Two)

➤ 4RUCd - WisdomTree Natural Gas 2x Daily Leveraged

Optiver V.O.F. (Program Three)

➤ 888l - 888 Holdings PLC

Jane Street Financial Limited (Program Three)

➤ A2Am - A2A SpA

HRTEU Limited (Program Two)

Virtu Financial Ireland Ltd (Program Two)

➤ [A3Me - Atresmedia Corp de Medios de Comunicacion SA](#)

HRTEU Limited (Program Two)

➤ [AAFL - Airtel Africa PLC](#)

Jane Street Financial Limited (Program Three)

➤ [AAGd - Aumann AG](#)

HRTEU Limited (Program Two)

➤ [AALBa - Aalberts NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [AALI - Anglo American PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [AASIm - Amundi Msci EM Asia UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [ABBNz - ABB Ltd](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ABBs - ABB Ltd](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ABCap - ABC arbitrage](#)

HRTEU Limited (Program Two)

## ➤ ABFl - Associated British Foods PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ABIOp - Albioma SA

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HRTEU Limited (Program Two)

## ➤ ABIB - Anheuser-Busch InBev SA/NV

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UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ABNa - ABN AMRO Bank NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ACADs - AcadeMedia AB

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HRTEU Limited (Program Two)

## ➤ ACAp - Credit Agricole SA

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UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ACEm - ACEA SpA

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HRTEU Limited (Program Two)

## ➤ ACKBb - Ackermans & van Haaren NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ACOMOa - Amsterdam Commodities NV

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HRTEU Limited (Program Two)

## ➤ ACSe - ACS Actividades de Construcción y Servicios SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ACWDI - SPDR MSCI ACWI ETF

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Hudson River Trading Europe Limited (Program Three)

## ➤ ACXe - Acerinox SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ACp - Accor SA

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UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ADENZ - Adecco Group AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ADJd - ADLER Group SA

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HRTEU Limited (Program Two)

## ➤ ADLd - ADLER Real Estate AG

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HRTEU Limited (Program Two)

## ➤ ADML - Admiral Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ADPp - Aeroports de Paris

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ADSd - adidas AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ADVd - ADVA Optical Networking SE

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HRTEU Limited (Program Two)

## ➤ ADa - Koninklijke Ahold Delhaize NV

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Virtu Financial Ireland Ltd (Program Two)

➤ [AEDASe - Aedas Homes SA](#)

HRTEU Limited (Program Two)

➤ [AEEMm - Amundi Msci Emerging Markets UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [AEFm - Aeffe SpA](#)

HRTEU Limited (Program Two)

➤ [AENAE - Aena SME SA](#)

HRTEU Limited (Program Two)

➤ [AFBs - AF Poyry AB](#)

HRTEU Limited (Program Two)

➤ [AFLEp - Amundi Floating Rate USD Corporate UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [AFLTp - Amundi Floating Rate USD Corporate UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [AFp - Air France-KLM](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [AGKl - Aggreko PLC](#)

DRW Global Markets Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [AGLm - Autogrill SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [AGNa - Aegon NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [AGROl - Ros Agro PLC](#)

Hudson River Trading Europe Limited (Program Three)

## ➤ AGRI - Assura PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

## ➤ AGSGx - iShares Core Global Aggregate Bond UCITS ETF SEK Hedged (Acc)

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FlowTraders B.V. (Program Three)

## ➤ AGSb - Ageas SA/NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ AHTI - Ashtead Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ AIRp - Airbus SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ AIXAd - AIXTRON SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ Alp - Air Liquide SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ AJBI - AJ Bell PLC

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Jane Street Financial Limited (Program Three)

## ➤ AKASTo - Akastor ASA

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HRTEU Limited (Program Two)

## ➤ AKERo - Aker ASA

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HRTEU Limited (Program Two)

## ➤ AKEp - Arkema SA

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Virtu Financial Ireland Ltd (Program Two)

➤ AKRBPO - Aker BP ASA

HRTEU Limited (Program Two)

➤ AKSOo - Aker Solutions ASA

HRTEU Limited (Program Two)

➤ AKZAa - Akzo Nobel NV

Virtu Financial Ireland Ltd (Program Two)

➤ ALBe - Corp Financiera Alba SA

HRTEU Limited (Program Two)

➤ ALCz - Alcon Inc

BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

➤ ALDp - ALD SA

HRTEU Limited (Program Two)

➤ ALFAl - Alfa Financial Software Holdings PLC

Hudson River Trading Europe Limited (Program Three)

➤ ALFAs - Alfa Laval AB

Virtu Financial Ireland Ltd (Program Two)

➤ ALIGs - Alimak Group AB

HRTEU Limited (Program Two)

➤ ALIVs - Autoliv Inc

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ ALKBc - ALK-Abello A/S

HRTEU Limited (Program Two)

## ➤ ALLNz - Allreal Holding AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ ALMBc - Alm Brand A/S

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HRTEU Limited (Program Two)

## ➤ ALMe - Almirall SA

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HRTEU Limited (Program Two)

## ➤ ALOp - Alstom SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ALSNz - ALSO Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ ALTRu - Altri SGPS SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ALVd - Allianz SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ AM1h - Ahlstrom-Munksjo Oyj

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HRTEU Limited (Program Two)

## ➤ AM3Dd - SLM Solutions Group AG

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HRTEU Limited (Program Two)

## ➤ AMBUBc - Ambu A/S

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HRTEU Limited (Program Two)

## ➤ AMGOl - Amigo Holdings PLC

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Hudson River Trading Europe Limited (Program Three)

## ➤ AMGa - AMG Advanced Metallurgical Group NV

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)



➤ **AMPm - Amplifon SpA**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **AMSe - Amadeus IT Group SA**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **AMSz - ams AG**

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ **ANAE - Acciona SA**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **ANDRv - ANDRITZ AG**

Virtu Financial Ireland Ltd (Program Two)

➤ **ANIMm - Anima Holding SpA**

HRTEU Limited (Program Two)

➤ **ANTOl - Antofagasta PLC**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **AOl - AO World PLC**

Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ **APAMa - APERAM SA**

Virtu Financial Ireland Ltd (Program Two)

➤ **APPSe - Applus Services SA**

HRTEU Limited (Program Two)

➤ [ARBNz - Arbonia AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [ARCADa - Arcadis NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ARGXb - Argenx SE](#)

HRTEU Limited (Program Two)

➤ [ARLd - Aareal Bank AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ARYNz - Aryzta AG](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [ASCLl - Ascential PLC](#)

Jane Street Financial Limited (Program Three)

➤ [ASCNz - Ascom Holding AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [ASCm - Ascopiave SpA](#)

HRTEU Limited (Program Two)

➤ [ASHMl - Ashmore Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ASLl - Aberforth Smaller Companies Trust PLC](#)

Hudson River Trading Europe Limited (Program Three)

➤ [ASMLa - ASML Holding NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ASMa - ASM International NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ASRm - AS Roma SpA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ASSABs - Assa Abloy AB](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ASTm - Astaldi SpA](#)

HRTEU Limited (Program Two)

➤ [ATADl - Tatneft PJSC](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [ATCOAs - Atlas Copco AB](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ATCOBs - Atlas Copco AB](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ATEAo - Atea ASA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ATEp - Alten SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ATLm - Atlantia SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ATOp - Atos SE](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ATSTl - Alliance Trust PLC](#)

Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ATTs - Attendo AB](#)

HRTEU Limited (Program Two)

➤ [ATm - ASTM SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [AURSp - AURES Technologies SA](#)

HRTEU Limited (Program Two)

➤ [AUSSo - Austevoll Seafood ASA](#)

HRTEU Limited (Program Two)

➤ [AUTMEm - Autostrade Meridionali SpA](#)

HRTEU Limited (Program Two)

➤ [AUTNz - Autoneum Holding AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [AUTOl - Auto Trader Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

➤ [AVIOm - Avio SpA](#)

HRTEU Limited (Program Two)

➤ [AVONI - Avon Rubber PLC](#)

Jane Street Financial Limited (Program Three)

➤ [AVSTk - Avast PLC](#)

Jane Street Financial Limited (Program Three)

➤ [AVSTl - Avast PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)

#### ➤ **AWI - AVEVA Group PLC**

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BNP Paribas Arbitrage SNC (Program One and Three)  
 Citadel Securities (Europe) Limited (Program Three)  
 Jane Street Financial Limited (Program Three)  
 Qube Master Fund Limited (Program One)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ **AVI - Aviva PLC**

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BNP Paribas Arbitrage SNC (Program One and Three)  
 Citadel Securities (Europe) Limited (Program Three)  
 DRW Global Markets Limited (Program Three)  
 Jane Street Financial Limited (Program Three)  
 Qube Master Fund Limited (Program One)  
 Societe Generale London Branch (Program Three)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ **AXBI - Axis Bank Ltd**

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Hudson River Trading Europe Limited (Program Three)

#### ➤ **AXFOs - Axfood AB**

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HRTEU Limited (Program Two)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ **AZAs - Avanza Bank Holding AB**

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HRTEU Limited (Program Two)

#### ➤ **AZMm - Azimut Holding SpA**

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HRTEU Limited (Program Two)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ **AZNI - AstraZeneca PLC**

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BNP Paribas Arbitrage SNC (Program One and Three)  
 Citadel Securities (Europe) Limited (Program Three)  
 DRW Global Markets Limited (Program Three)  
 Qube Master Fund Limited (Program One)  
 Societe Generale London Branch (Program Three)  
 Tower Research Capital Europe Limited (Program Two)  
 UG Europe AG (Program Three)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ **AZNs - AstraZeneca PLC**

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BNP Paribas Arbitrage SNC (Program One and Three)  
 Optiver V.O.F. (Program Three)  
 UG Europe AG (Program Three)  
 Virtu Financial Ireland Ltd (Program Two)

➤ B2Ho - B2Holding ASA

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HRTEU Limited (Program Two)

➤ B5Ad - Bauer AG

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HRTEU Limited (Program Two)

➤ BABI - Babcock International Group PLC

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Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ BAERz - Julius Baer Group Ltd

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ BAGI - AG Barr PLC

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Hudson River Trading Europe Limited (Program Three)

➤ BAKKAo - Bakkafrost P/F

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BNP Paribas Arbitrage SNC (Program One and Three)

➤ BALDBs - Fastighets AB Balder

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HRTEU Limited (Program Two)

➤ BALNz - Baloise Holding AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ BALTA b - Balta Group SA

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HRTEU Limited (Program Two)

➤ BAMIm - Banco BPM SpA

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HRTEU Limited (Program Two)

## ➤ BAMNBa - Koninklijke BAM Groep NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ BANBz - Bachem Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ BARCl - Barclays PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BARNz - Barry Callebaut AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ BASd - BASF SE

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BATSl - British American Tobacco PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BAYNd - Bayer AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ BAl - BAE Systems PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **BBEDa - Beter Bed Holding NV**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **BBOXl - Tritax Big Box REIT PLC**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

➤ **BBVAe - Banco Bilbao Vizcaya Argentaria SA**

HRTEU Limited (Program Two)  
UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **BBYl - Balfour Beatty PLC**

Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **BBm - BB Biotech AG**

HRTEU Limited (Program Two)

➤ **BBp - Societe BIC SA**

Virtu Financial Ireland Ltd (Program Two)

➤ **BCARTb - Biocartis Group NV**

HRTEU Limited (Program Two)

➤ **BCHNz - Burckhardt Compression Holding AG**

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ **BCPu - Banco Comercial Portugues SA**

Virtu Financial Ireland Ltd (Program Two)

➤ **BCVNz - Banque Cantonale Vaudoise**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ **BCm - Brunello Cucinelli SpA**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)



## ➤ BDEVI - Barratt Developments PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BDTd - Bertrandt AG

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HRTEU Limited (Program Two)

## ➤ BEANz - Belimo Holding AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

## ➤ BEFBb - Befimmo SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ BEId - Beiersdorf AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ BEKBb - Bekaert SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ BELLz - Bell Food Group AG

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Citadel Securities (Europe) Limited (Program Three)

## ➤ BERMIIm - Lyxor FTSE MIB Daily -1x Inverse Bear UCITS ETF

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HRTEU Limited (Program Two)

## ➤ BETSBs - Betsson AB

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HRTEU Limited (Program Two)

## ➤ BEZl - Beazley PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ BFFm - BFF Bank SpA

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HRTEU Limited (Program Two)

➤ BGNm - Banca Generali SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ BHPl - BHP Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

➤ BIFFl - Biffa PLC

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Jane Street Financial Limited (Program Three)

➤ BIGp - Bigben Interactive

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HRTEU Limited (Program Two)

➤ BILLs - BillerudKorsnas AB

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HRTEU Limited (Program Two)

➤ BIMp - BioMerieux

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Virtu Financial Ireland Ltd (Program Two)

➤ BIOABs - BioArctic AB

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HRTEU Limited (Program Two)

➤ BIOGBs - BioGaia AB

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HRTEU Limited (Program Two)

➤ BIOGl - Biotech Growth Trust PLC/The

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Citadel Securities (Europe) Limited (Program Three)

➤ BIOTs - Biotage AB

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HRTEU Limited (Program Two)

## ➤ BKGI - Berkeley Group Holdings PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BKTe - Bankinter SA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BKWz - BKW AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ BLCp - Bastide le Confort Medical

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HRTEU Limited (Program Two)

## ➤ BLNDI - British Land Co PLC/The

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BMAXs - Bygghmax Group AB

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HRTEU Limited (Program Two)

## ➤ BMEDm - Banca Mediolanum SpA

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HRTEU Limited (Program Two)

## ➤ BMEI - B&M European Value Retail SA

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

## ➤ BMPSm - Banca Monte dei Paschi di Siena SpA

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HRTEU Limited (Program Two)

➤ **BMW3d - Bayerische Motoren Werke AG**

Virtu Financial Ireland Ltd (Program Two)

➤ **BMWd - Bayerische Motoren Werke AG**

Virtu Financial Ireland Ltd (Program Two)

➤ **BNKEp - Lyxor EURO STOXX Banks DR UCITS ETF**

Optiver V.O.F. (Program Two)

➤ **BNKm - Lyxor STOXX Europe 600 Banks UCITS ETF**

HRTEU Limited (Program Two)

➤ **BNPm - BNP Paribas SA**

HRTEU Limited (Program Two)

➤ **BNPp - BNP Paribas SA**

UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **BNRd - Brenntag SE**

Virtu Financial Ireland Ltd (Program Two)

➤ **BNZLL - Bunzl PLC**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **BNp - Danone SA**

UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **BOBNNz - Bobst Group SA**

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ **BOlp - Boiron SA**

HRTEU Limited (Program Two)

➤ BOKAa - Boskalis Westminster

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Virtu Financial Ireland Ltd (Program Two)

➤ BOLp - Bollore SA

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Virtu Financial Ireland Ltd (Program Two)

➤ BOLs - Boliden AB

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Virtu Financial Ireland Ltd (Program Two)

➤ BONABs - Bonava AB

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HRTEU Limited (Program Two)

➤ BOOZTs - Boozt AB

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HRTEU Limited (Program Two)

➤ BOSNz - Bossard Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ BOSSd - HUGO BOSS AG

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Virtu Financial Ireland Ltd (Program Two)

➤ BOYl - Bodycote PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ BOc - Bang & Olufsen A/S

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HRTEU Limited (Program Two)

➤ BPEm - BPER Banca

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ BPOSTb - bpost SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ BPSOm - Banca Popolare di Sondrio SCPA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BPI - BP PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BR50m - iShares BRIC 50 UCITS ETF

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HRTEU Limited (Program Two)

## ➤ BRAm - Lyxor MSCI Brazil UCITS ETF

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HRTEU Limited (Program Two)

## ➤ BRBYL - Burberry Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BREm - Freni Brembo SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BREp - Lyxor STOXX Europe 600 Basic Resources UCITS ETF

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HRTEU Limited (Program Two)

## ➤ BRGo - Borregaard ASA

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HRTEU Limited (Program Two)

## ➤ BRIm - Brioschi Sviluppo Immobiliare SpA

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HRTEU Limited (Program Two)

➤ [BRNLa - Brunel International NV](#)

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Virtu Financial Ireland Ltd (Program Two)

➤ [BRNTI - WisdomTree Brent Crude Oil](#)

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Optiver V.O.F. (Program Three)

➤ [BRNTm - WisdomTree Brent Crude Oil](#)

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Optiver V.O.F. (Program Three)

➤ [BRSCI - BlackRock Smaller Cos Trust PLC](#)

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Citadel Securities (Europe) Limited (Program Three)

➤ [BRWMI - BlackRock World Mining Trust PLC](#)

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Virtu Financial Ireland Ltd (Program Two)

➤ [BRWL - Brewin Dolphin Holdings PLC](#)

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Jane Street Financial Limited (Program Three)

➤ [BSLNz - Basilea Pharmaceutica AG](#)

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [BSLd - Basler AG](#)

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HRTEU Limited (Program Two)

➤ [BSSm - Biesse SpA](#)

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HRTEU Limited (Program Two)

➤ [BSTm - Banca Sistema SpA](#)

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HRTEU Limited (Program Two)

➤ [BSXm - Lyxor EURO STOXX 50 Daily -1x Inverse UCITS ETF](#)

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HRTEU Limited (Program Two)

➤ [BTP2Sm - Lyxor BTP Daily -2x Inverse UCITS ETF](#)

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HRTEU Limited (Program Two)

## ➤ BTL - BT Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BUCNz - Bucher Industries AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ BUFABs - Bufab AB

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HRTEU Limited (Program Two)

## ➤ BUND2m - Lyxor Bund Daily -2x Inverse UCITS ETF

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HRTEU Limited (Program Two)

## ➤ BUREs - Bure Equity AB

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HRTEU Limited (Program Two)

## ➤ BVICl - Britvic PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BVlp - Bureau Veritas SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ BWLPGo - BW LPG Ltd

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HRTEU Limited (Program Two)

## ➤ BWOo - BW Offshore Ltd

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HRTEU Limited (Program Two)



## ➤ BWYL - Bellway PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ BX4p - Lyxor CAC 40 Daily -2x Inverse UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ BXXm - Lyxor EURO STOXX 50 Daily -2x Inverse UCITS ETF

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HRTEU Limited (Program Two)

## ➤ BYW6d - BayWa AG

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HRTEU Limited (Program Two)

## ➤ BZUm - Buzzi Unicem SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ C40p - Amundi Cac 40 UCITS ETF DR

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HRTEU Limited (Program Two)

## ➤ C4Dp - Amundi Cac 40 UCITS ETF DR

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HRTEU Limited (Program Two)

## ➤ C50m - Amundi Euro Stoxx 50 UCITS ETF DR

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

## ➤ C50p - Amundi Euro Stoxx 50 UCITS ETF DR

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Optiver V.O.F. (Program Two)

## ➤ C6Ep - Amundi Stoxx Europe 600 UCITS ETF

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

## ➤ C6Ez - Amundi Stoxx Europe 600 UCITS ETF

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Optiver V.O.F. (Program Two)

➤ CABKe - CaixaBank SA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ CACMp - Lyxor CAC MID 60 DR UCITS ETF

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HRTEU Limited (Program Two)

➤ CACp - Lyxor CAC 40 DR UCITS ETF

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Optiver V.O.F. (Program Two)

➤ CAFe - Construcciones y Auxiliar de Ferrocarriles SA

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HRTEU Limited (Program Two)

➤ CAIm - Cairo Communication SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ CAIv - CA Immobilien Anlagen AG

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Virtu Financial Ireland Ltd (Program Two)

➤ CAPCI - Capital & Counties Properties PLC

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Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ CAPp - Capgemini SE

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Virtu Financial Ireland Ltd (Program Two)

➤ CARLBc - Carlsberg AS

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ CARMp - Carmila SA

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HRTEU Limited (Program Two)

➤ CARRm - Carraro SpA/Campodarsego

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HRTEU Limited (Program Two)

➤ [CASHe - Prosegur Cash SA](#)

HRTEU Limited (Program Two)

➤ [CASSm - Societa Cattolica Di Assicurazione SPA](#)

HRTEU Limited (Program Two)

➤ [CASTs - Castellum AB](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [CAV1Vh - Caverion Oyj](#)

HRTEU Limited (Program Two)

➤ [CAp - Carrefour SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [CB5p - Amundi ETF MSCI Europe Banks UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [CBG1 - Close Brothers Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [CBKDI - Commercial International Bank Egypt SAE](#)

Hudson River Trading Europe Limited (Program Three)

➤ [CBKd - Commerzbank AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [CBUS5m - UBS Lux Fund Solutions - Bloomberg Barclays US Liquid Corporates 1-5 Yr](#)

HRTEU Limited (Program Two)

➤ [CC1p - Amundi Msci China UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [CCCI - Computacenter PLC](#)

Jane Street Financial Limited (Program Three)

## ➤ CCHl - Coca-Cola HBC AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CCLl - Carnival PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CDAp - Cie des Alpes

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HRTEU Limited (Program Two)

## ➤ CDlp - Christian Dior SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ CE2d - CropEnergies AG

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HRTEU Limited (Program Two)

## ➤ CECd - CECONOMY AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ CEMUa - iShares Core MSCI EMU UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ CEMm - Cementir Holding NV

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HRTEU Limited (Program Two)

## ➤ CENp - Groupe Crit

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HRTEU Limited (Program Two)

## ➤ CERVm - Cerved Group SpA

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HRTEU Limited (Program Two)

## ➤ CEUm - Amundi Msci Europe UCITS ETF

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

## ➤ CEUx - iShares Core MSCI EMU UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)

## ➤ CEVIs - Cellavision AB

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HRTEU Limited (Program Two)

## ➤ CEYL - Centamin PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ CEm - Credito Emiliano SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CFRz - Cie Financiere Richemont SA

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CGCBVh - Cargotec Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ CGGp - CGG SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ CGMp - Cegedim SA

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HRTEU Limited (Program Two)

## ➤ CHGL - Chemring Group PLC

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Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [CHRC - Chr Hansen Holding A/S](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [CIEe - CIE Automotive SA](#)

HRTEU Limited (Program Two)

➤ [CINAm - Lyxor China Enterprise HSCEI UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [CIRm - CIR SpA-Compagnie Industriali](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [CKNI - Clarkson PLC](#)

Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [CLABs - Cloetta AB](#)

HRTEU Limited (Program Two)

➤ [CLASBs - Clas Ohlson AB](#)

HRTEU Limited (Program Two)

➤ [CLNXe - Cellnex Telecom SA](#)

HRTEU Limited (Program Two)

➤ [CLNz - Clariant AG](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ [CMBNz - Cembra Money Bank AG](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ [CMCXI - CMC Markets PLC](#)

Jane Street Financial Limited (Program Three)

## ➤ CMUp - AMUNDI MSCI EMU ESG LEADERS

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

## ➤ CNAI - Centrica PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CNEI - Cairn Energy PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CNFp - Caisse Regionale de Credit Agricole Mutuel Nord de France

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HRTEU Limited (Program Two)

## ➤ CNHIm - CNH Industrial NV

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CNPp - CNP Assurances

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Virtu Financial Ireland Ltd (Program Two)

## ➤ COAl - Coats Group PLC

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Jane Street Financial Limited (Program Three)

## ➤ COFBb - Cofinimmo SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ COLOBc - Coloplast A/S

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Virtu Financial Ireland Ltd (Program Two)

## ➤ COLRb - Etablissements Franz Colruyt NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ COLe - Inmobiliaria Colonial Socimi SA

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HRTEU Limited (Program Two)

## ➤ CONd - Continental AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ COPAL - WisdomTree Copper

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Optiver V.O.F. (Program Three)

## ➤ COPAm - WisdomTree Copper

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Optiver V.O.F. (Program Three)

## ➤ COPNz - COSMO Pharmaceuticals NV

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Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ CORu - Corticeira Amorim SGPS SA

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HRTEU Limited (Program Two)

## ➤ COTNz - Comet Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ COXp - Nicox

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Virtu Financial Ireland Ltd (Program Two)

## ➤ COp - Casino Guichard Perrachon SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ CPGl - Compass Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CPIl - Capita PLC

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Virtu Financial Ireland Ltd (Program Two)



## ➤ CPRm - Davide Campari-Milano NV

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CRBm - Lyxor Commodities Refinitiv/CoreCommodity CRB TR UCITS ETF

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HRTEU Limited (Program Two)

## ➤ CRDAI - Croda International PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CRGi - CRH PLC

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Virtu Financial Ireland Ltd (Program Two)

## ➤ CRHl - CRH PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CRlp - Chargeurs SA

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HRTEU Limited (Program Two)

## ➤ CRSTl - Crest Nicholson Holdings plc

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Jane Street Financial Limited (Program Three)

## ➤ CRUDl - WisdomTree WTI Crude Oil

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Optiver V.O.F. (Program Three)

## ➤ CRUDm - WisdomTree WTI Crude Oil

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Three)

## ➤ CS51l - iShares Core EURO STOXX 50 UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ CSEMUm - iShares Core MSCI EMU UCITS ETF

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

## ➤ CSEMZz - iShares Core MSCI EMU UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ CSGNz - Credit Suisse Group AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ CSMIBm - iShares FTSE MIB UCITS ETF EUR Acc

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HRTEU Limited (Program Two)

## ➤ CSPXJm - iShares Core MSCI Pacific ex-Japan UCITS ETF

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HRTEU Limited (Program Two)

## ➤ CSPXl - iShares Core S&P 500 UCITS ETF

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Optiver V.O.F. (Program Three)

## ➤ CSPXx - iShares Core S&P 500 UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)

## ➤ CSPl - Countryside Properties PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ CSSMIz - iShares SMI ETF CH

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Optiver V.O.F. (Program Three)

## ➤ CSSPXm - iShares Core S&P 500 UCITS ETF

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HRTEU Limited (Program Two)

➤ [CSSX5m - iShares Core EURO STOXX 50 UCITS ETF](#)

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ [CSSX5z - iShares Core EURO STOXX 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [CSUKXz - iShares Core FTSE 100 UCITS ETF GBP Acc](#)

Optiver V.O.F. (Program Two)

➤ [CSUKm - iShares MSCI UK UCITS ETF](#)

Optiver V.O.F. (Program Three)

➤ [CSX5a - iShares Core EURO STOXX 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [CSp - AXA SA](#)

UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [CTECl - ConvaTec Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [CTTu - CTT-Correios de Portugal SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [CTY1Sh - Citycon Oyj](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [CTYL - City of London Investment Trust PLC/The](#)

Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)

➤ [CU1m - Amundi ETF MSCI UK UCITS ETF](#)

Optiver V.O.F. (Program Three)

➤ CUKXI - iShares Core FTSE 100 UCITS ETF GBP Acc

Optiver V.O.F. (Program Two)

➤ CVALm - Credito Valtellinese SpA

Virtu Financial Ireland Ltd (Program Two)

➤ CW8p - Amundi Msci World UCITS ETF

HRTEU Limited (Program Two)

➤ CWKI - Cranswick PLC

Jane Street Financial Limited (Program Three)

➤ DAEz - Daetwyler Holding AG

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ DAId - Daimler AG

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ DALm - Datalogic SpA

HRTEU Limited (Program Two)

➤ DANRm - Danieli & C Officine Meccaniche SpA

HRTEU Limited (Program Two)

➤ DANSKc - Danske Bank A/S

Virtu Financial Ireland Ltd (Program Two)

➤ DANm - Danieli & C Officine Meccaniche SpA

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ DAX2Sm - Lyxor Daily ShortDAX x2 UCITS ETF

HRTEU Limited (Program Two)

➤ DAXLEm - Lyxor Daily LevDAX UCITS ETF

HRTEU Limited (Program Two)

➤ [DAXXm - Lyxor DAX DR UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [DB1d - Deutsche Boerse AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DBANd - Deutsche Beteiligungs AG](#)

HRTEU Limited (Program Two)

➤ [DBKd - Deutsche Bank AG](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [DBVp - DBV Technologies SA](#)

HRTEU Limited (Program Two)

➤ [DBXAd - Xtrackers MSCI Europe UCITS ETF](#)

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ [DBXDd - Xtrackers DAX UCITS ETF](#)

Optiver V.O.F. (Program Three)

➤ [DBXEd - Xtrackers Euro Stoxx 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [DCCI - DCC PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)

➤ [DCI - Dixons Carphone PLC](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [DEAm - DeA Capital SpA](#)

HRTEU Limited (Program Two)

➤ [DECp - JCDecaux SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DEQd - Deutsche EuroShop AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DEZd - Deutz AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DFDSc - Dfds A/S](#)

HRTEU Limited (Program Two)

➤ [DFSl - DFS Furniture PLC](#)

Hudson River Trading Europe Limited (Program Three)

➤ [DGEI - Diageo PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [DGOCl - Diversified Gas & Oil PLC](#)

Jane Street Financial Limited (Program Three)

➤ [DGp - Vinci SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DIAe - Distribuidora Internacional de Alimentacion SA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [DIAL - Dialight PLC](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DIAM - DiaSorin SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [DIBm - Digital Bros SpA](#)

HRTEU Limited (Program Two)

➤ [DICd - DIC Asset AG](#)

HRTEU Limited (Program Two)

➤ [DIEb - D'ieteren SA/NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DIOsS - Dios Fastigheter AB](#)

HRTEU Limited (Program Two)

➤ [DISm - d'Amico International Shipping SA](#)

HRTEU Limited (Program Two)

➤ [DJLEVm - Lyxor EURO STOXX 50 Daily 2x Leveraged UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [DKSHz - DKSH Holding AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ [DLARl - De La Rue PLC](#)

Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [DLGd - Dialog Semiconductor PLC](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DLGl - Direct Line Insurance Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [DLGm - De' Longhi SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ DLNl - Derwent London PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ DMGTl - Daily Mail & General Trust PLC

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Virtu Financial Ireland Ltd (Program Two)

## ➤ DNBo - DNB ASA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ DNLMl - Dunelm Group PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ DNORDc - D/S Norden A/S

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ DNOo - DNO ASA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ DOKAz - dormakaba Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ DOMl - Domino's Pizza Group PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ DOMs - Dometic Group AB

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HRTEU Limited (Program Two)

## ➤ DPHl - Dechra Pharmaceuticals PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)



## ➤ DPLMl - Diploma PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ DPWd - Deutsche Post AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ DRId - 1&1 Drillisch AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ DRXl - Drax Group PLC

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Virtu Financial Ireland Ltd (Program Two)

## ➤ DSMa - Koninklijke DSM NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ DSVc - DSV PANALPINA A/S

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Virtu Financial Ireland Ltd (Program Two)

## ➤ DSYp - Dassault Systemes SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ DTEd - Deutsche Telekom AG

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ DTMXx - iShares \$ Treasury Bond 20+yr UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)

## ➤ DUFNz - Dufry AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ DUSTs - Dustin Group AB

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HRTEU Limited (Program Two)

➤ [DVOI - Devro PLC](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DWNId - Deutsche Wohnen SE](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [DWSd - DWS Group GmbH & Co KGaA](#)

HRTEU Limited (Program Two)

➤ [DX2Xd - Xtrackers Stoxx Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [DXETd - Xtrackers Euro Stoxx 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [DXSNd - Xtrackers ShortDAX Daily Swap UCITS ETF](#)

Optiver V.O.F. (Program Three)

➤ [E50EUm - UBS Lux Fund Solutions - EURO STOXX 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [E50EUz - UBS Lux Fund Solutions - EURO STOXX 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [E50EZZ - UBS Lux Fund Solutions - EURO STOXX 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [EBROe - Ebro Foods SA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [EBRTm - WisdomTree Brent Crude Oil - EUR Daily Hedged](#)

Optiver V.O.F. (Program Three)

➤ [EBSv - Erste Group Bank AG](#)

Virtu Financial Ireland Ltd (Program Two)

## ➤ ECMPAa - Eurocommercial Properties NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ECML - Electrocomponents PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ECONBb - Econocom Group SA/NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ECOPm - WisdomTree Copper - EUR Daily Hedged

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Optiver V.O.F. (Program Three)

## ➤ ECRe - Ercros SA

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HRTEU Limited (Program Two)

## ➤ EDENp - Edenred

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Virtu Financial Ireland Ltd (Program Two)

## ➤ EDFp - Electricite de France SA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ EDINl - Edinburgh Investment Trust PLC/The

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Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ EDMWx - iShares MSCI World ESG Enhanced UCITS ETF USD (Acc)

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FlowTraders B.V. (Program Three)

## ➤ EDNRm - Edison SpA

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HRTEU Limited (Program Two)

## ➤ EDPRu - EDP Renovaveis SA

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Virtu Financial Ireland Ltd (Program Two)

➤ [EDPu - EDP - Energias de Portugal SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [EEEp - BNP Paribas Easy FTSE EPRA/NAREIT Eurozone Capped UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [EEWDx - iShares MSCI World ESG Enhanced UCITS ETF USD \(Dist\)](#)

FlowTraders B.V. (Program Three)

➤ [EFGNz - EFG International AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [EGLu - Mota-Engil SGPS SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [EIMIm - iShares Core MSCI EM IMI UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [EIMUx - iShares Core MSCI EM IMI UCITS ETF USD \(Dist\)](#)

FlowTraders B.V. (Program Three)

➤ [EKTABs - Elekta AB](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [EL4Ad - Deka DAX UCITS ETF](#)

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Three)

➤ [EL4Bd - Deka EURO STOXX 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [ELCm - Elica SpA](#)

HRTEU Limited (Program Two)

➤ [ELEe - Endesa SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ELGd - Elmos Semiconductor SE](#)

HRTEU Limited (Program Two)

➤ [ELISAh - Elisa Oyj](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ELISp - Elis SA](#)

HRTEU Limited (Program Two)

➤ [ELIb - Elia Group SA/NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ELMI - Elementis PLC](#)

Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ELNm - El.En. SpA](#)

HRTEU Limited (Program Two)

➤ [ELTELS - Eltel AB](#)

HRTEU Limited (Program Two)

➤ [ELUXBs - Electrolux AB](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [EM13m - Lyxor Euro Government Bond 1-3Y DR UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [EMBEEm - iShares J.P. Morgan USD EM Bond EUR Hedged UCITS ETF Dist](#)

HRTEU Limited (Program Two)

➤ [EMBMXx - iShares J.P. Morgan USD EM Bond UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [EMGI - Man Group PLC/Jersey](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ EMMNz - Emmi AG

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ EMSNz - EMS-Chemie Holding AG

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ EMUAAz - UBS Lux Fund Solutions - MSCI EMU UCITS ETF

Optiver V.O.F. (Program Two)

## ➤ EMUEEz - UBS Lux Fund Solutions - MSCI EMU UCITS ETF

Optiver V.O.F. (Program Two)

## ➤ EMUEUm - UBS Lux Fund Solutions - MSCI EMU UCITS ETF

HRTEU Limited (Program Two)

## ➤ EMUEUz - UBS Lux Fund Solutions - MSCI EMU UCITS ETF

Optiver V.O.F. (Program Two)

## ➤ EMUm - Lyxor Core MSCI EMU DR UCITS ETF

Optiver V.O.F. (Program Two)

## ➤ EMm - Emak SpA

HRTEU Limited (Program Two)

## ➤ ENAVm - Enav SpA

HRTEU Limited (Program Two)

## ➤ ENCe - Ence Energia y Celulosa SA

HRTEU Limited (Program Two)

## ➤ ENELm - Enel SpA

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ ENGIp - Engie SA

Virtu Financial Ireland Ltd (Program Two)

➤ ENGe - Enagas SA

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ ENIm - Eni SpA

HRTEU Limited (Program Two)  
UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ ENOGL - Energean PLC

Jane Street Financial Limited (Program Three)

➤ ENTRAo - Entra ASA

HRTEU Limited (Program Two)

➤ ENTI - Entain PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

➤ ENp - Bouygues SA

Virtu Financial Ireland Ltd (Program Two)

➤ EOANd - E.ON SE

Virtu Financial Ireland Ltd (Program Two)

➤ EOp - Faurecia SE

Virtu Financial Ireland Ltd (Program Two)

➤ EPIAs - Epiroc AB

HRTEU Limited (Program Two)

➤ EPIBs - Epiroc AB

HRTEU Limited (Program Two)

➤ EPRo - Europris ASA

HRTEU Limited (Program Two)

➤ [EQNRo - Equinor ASA](#)

HRTEU Limited (Program Two)

➤ [ERAp - Eramet SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ERFp - Eurofins Scientific SE](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ERGM - ERG SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ERICAs - Telefonaktiebolaget LM Ericsson](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ERICBs - Telefonaktiebolaget LM Ericsson](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ERML - Euromoney Institutional Investor PLC](#)

Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [ERNMx - iShares USD Ultrashort Bond UCITS ETF MXN Hedged \(Acc\)](#)

FlowTraders B.V. (Program Three)

➤ [EROp - SPDR MSCI Europe UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [ESEHp - BNP Paribas Easy S&P 500 UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [ESEp - BNP Paribas Easy S&P 500 UCITS ETF](#)

Optiver V.O.F. (Program Three)

➤ [ESKNL - Esken Ltd](#)

Hudson River Trading Europe Limited (Program Three)



➤ [ESNTI - Essentra PLC](#)

Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ESPL - Empiric Student Property PLC](#)

Hudson River Trading Europe Limited (Program Three)

➤ [ETDDp - BNP Paribas Easy EURO STOXX 50 UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [ETFMIIm - Lyxor FTSE MIB UCITS ETF](#)

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ [ETLp - Eutelsat Communications SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ETSZd - BNP Paribas Easy Stoxx Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [ETZDp - BNP Paribas Easy Stoxx Europe 600 UCITS ETF](#)

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ [ETZDz - BNP Paribas Easy Stoxx Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [ETZp - BNP Paribas Easy Stoxx Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [ETZz - BNP Paribas Easy Stoxx Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [EUEAa - iShares Core EURO STOXX 50 UCITS ETF EUR Dist](#)

Optiver V.O.F. (Program Two)

➤ [EUEL - iShares Core EURO STOXX 50 UCITS ETF EUR Dist](#)

Optiver V.O.F. (Program Two)

➤ [EUEm - iShares Core EURO STOXX 50 UCITS ETF EUR Dist](#)

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ [EUNAa - iShares STOXX Europe 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [EUNEz - iShares Core EURO STOXX 50 UCITS ETF EUR Dist](#)

Optiver V.O.F. (Program Two)

➤ [EUNm - iShares STOXX Europe 50 UCITS ETF](#)

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ [EUNz - iShares STOXX Europe 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [EUS3m - WisdomTree Long USD Short EUR 3x Daily](#)

HRTEU Limited (Program Two)

➤ [EVNv - EVN AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [EVOs - Evolution Gaming Group AB](#)

HRTEU Limited (Program Two)

➤ [EVRI - Evraz PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

➤ [EVSb - EVS Broadcast Equipment SA](#)

HRTEU Limited (Program Two)

➤ [EVTd - Evotec SE](#)

Virtu Financial Ireland Ltd (Program Two)

➤ EXH1d - iShares STOXX Europe 600 Oil & Gas UCITS ETF DE

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ EXH4d - iShares STOXX Europe 600 Industrial Goods & Services UCITS ETF DE

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Optiver V.O.F. (Program Two)

➤ EXH5d - iShares STOXX Europe 600 Insurance UCITS ETF DE

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Optiver V.O.F. (Program Two)

➤ EXH9d - iShares STOXX Europe 600 Utilities UCITS ETF DE

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Optiver V.O.F. (Program Two)

➤ EXOm - EXOR NV

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HRTEU Limited (Program Two)

➤ EXPNI - Experian PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ EXS1d - iShares Core DAX UCITS ETF DE

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Optiver V.O.F. (Program Three)

➤ EXS1m - iShares Core DAX UCITS ETF DE

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HRTEU Limited (Program Two)

➤ EXS2d - iShares TecDAX UCITS ETF DE

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Optiver V.O.F. (Program Three)

➤ EXS3d - iShares MDAX UCITS ETF DE

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Three)

➤ EXSAd - iShares STOXX Europe 600 UCITS ETF DE

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Optiver V.O.F. (Program Two)

➤ EXSAm - iShares STOXX Europe 600 UCITS ETF DE

HRTEU Limited (Program Two)

➤ EXSIId - iShares EURO STOXX UCITS ETF DE

Optiver V.O.F. (Program Two)

➤ EXV1d - iShares STOXX Europe 600 Banks UCITS ETF DE

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ EXV2d - iShares STOXX Europe 600 Telecommunications UCITS ETF DE

HRTEU Limited (Program Two)

➤ EXV4d - iShares STOXX Europe 600 Health Care UCITS ETF DE

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ EXV5d - iShares STOXX Europe 600 Automobiles & Parts UCITS ETF DE

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ EXV6d - iShares STOXX Europe 600 Basic Resources UCITS ETF DE

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Three)

➤ EXW1d - iShares Core EURO STOXX 50 UCITS ETF DE

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ EXW3d - iShares STOXX Europe 50 UCITS ETF DE

Optiver V.O.F. (Program Two)

➤ EXX1d - iShares EURO STOXX Banks 30-15 UCITS ETF DE

Optiver V.O.F. (Program Two)

➤ EZEe - Grupo Ezentis SA

HRTEU Limited (Program Two)

## ➤ EZJL - easyJet PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
 Citadel Securities (Europe) Limited (Program Three)  
 DRW Global Markets Limited (Program Three)  
 Jane Street Financial Limited (Program Three)  
 Societe Generale London Branch (Program Three)  
 Virtu Financial Ireland Ltd (Program Two)

## ➤ FABGs - Fabege AB

HRTEU Limited (Program Two)  
 Virtu Financial Ireland Ltd (Program Two)

## ➤ FAEe - Faes Farma SA

HRTEU Limited (Program Two)

## ➤ FBKm - FinecoBank Banca Fineco SpA

HRTEU Limited (Program Two)

## ➤ FCCe - Fomento de Construcciones y Contratas SA

HRTEU Limited (Program Two)  
 Virtu Financial Ireland Ltd (Program Two)

## ➤ FCITL - F&C Investment Trust PLC

Citadel Securities (Europe) Limited (Program Three)  
 Hudson River Trading Europe Limited (Program Three)

## ➤ FCSSl - Fidelity China Special Situations PLC

Citadel Securities (Europe) Limited (Program Three)  
 Virtu Financial Ireland Ltd (Program Two)

## ➤ FCTm - Fincantieri SpA

HRTEU Limited (Program Two)

## ➤ FDAm - Fidia SpA

HRTEU Limited (Program Two)

## ➤ FDML - FDM Group Holdings PLC

Hudson River Trading Europe Limited (Program Three)  
 Jane Street Financial Limited (Program Three)

## ➤ FDRé - Fluidra SA

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HRTEU Limited (Program Two)

## ➤ FERGI - Ferguson PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ FERé - Ferrovial SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FGPI - Firstgroup PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ FGRp - Eiffage SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FGTL - Finsbury Growth & Income Trust PLC/Fund

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Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)

## ➤ FHZNz - Flughafen Zurich AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ FIA1Sh - Finnair Oyj

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HRTEU Limited (Program Two)

## ➤ FILAm - Fila SpA

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HRTEU Limited (Program Two)

## ➤ FINGBs - Fingerprint Cards AB

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FINz - Georg Fischer AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ FIVEl - X5 Retail Group NV

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Citadel Securities (Europe) Limited (Program Three)

## ➤ FKRM - Falck Renewables SpA

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HRTEU Limited (Program Two)

## ➤ FLOTm - Lyxor Euro Floating Rate Note UCITS ETF

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HRTEU Limited (Program Two)

## ➤ FLSc - FLSmidth & Co A/S

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FLTRL - Flutter Entertainment PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)

## ➤ FLUv - Flughafen Wien AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FLYp - Societe Fonciere Lyonnaise SA

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HRTEU Limited (Program Two)

## ➤ FMEd - Fresenius Medical Care AG & Co KGaA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FNMm - FNM SpA

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HRTEU Limited (Program Two)

## ➤ FNTNd - Freenet AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FORNz - Forbo Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ FORTMh - Fortum Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FORTl - Forterra PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ FPE3d - FUCHS PETROLUB SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FPEd - FUCHS PETROLUB SE

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HRTEU Limited (Program Two)

## ➤ FPp - TOTAL SE

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UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ FRASl - Frasers Group PLC

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Jane Street Financial Limited (Program Three)

## ➤ FRAd - Fraport AG Frankfurt Airport Services Worldwide

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Virtu Financial Ireland Ltd (Program Two)

## ➤ FRESl - Fresnillo PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ FREd - Fresenius SE & Co KGaA

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Virtu Financial Ireland Ltd (Program Two)



➤ FRMXNx - iShares USD Floating Rate Bond UCITS ETF

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FlowTraders B.V. (Program Three)

➤ FROo - Frontline Ltd/Bermuda

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Virtu Financial Ireland Ltd (Program Two)

➤ FRUEL - Franklin LibertyQ U.S. Equity UCITS ETF

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FlowTraders B.V. (Program Three)

➤ FRp - Valeo SA

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Virtu Financial Ireland Ltd (Program Two)

➤ FSJl - James Fisher & Sons PLC

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Hudson River Trading Europe Limited (Program Three)

➤ FURa - Fugro NV

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Virtu Financial Ireland Ltd (Program Two)

➤ FUTRI - Future PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ FXCm - iShares China Large Cap UCITS ETF

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HRTEU Limited (Program Two)

➤ FXPOL - Ferrexpo PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ G1Ad - GEA Group AG

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Virtu Financial Ireland Ltd (Program Two)

➤ GALEz - Galenica AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ GALPu - Galp Energia SGPS SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ GAMz - GAM Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ GAWL - Games Workshop Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ GBFd - Bilfinger SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ GBLBb - Groupe Bruxelles Lambert SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ GBSl - Gold Bullion Securities Ltd

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Optiver V.O.F. (Program Three)

## ➤ GBSm - Gold Bullion Securities Ltd

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Three)

## ➤ GBSp - Gold Bullion Securities Ltd

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Optiver V.O.F. (Program Three)

## ➤ GCOe - Grupo Catalana Occidente SA

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HRTEU Limited (Program Two)

## ➤ GEBNz - Geberit AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ GENLI - Genel Energy Plc

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Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **GEOm - Geox SpA**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **GESTe - Gestamp Automocion SA**

HRTEU Limited (Program Two)

➤ **GETIBs - Getinge AB**

Virtu Financial Ireland Ltd (Program Two)

➤ **GETp - Getlink SE**

Virtu Financial Ireland Ltd (Program Two)

➤ **GEm - Gefran SpA**

HRTEU Limited (Program Two)

➤ **GFCp - Gecina SA**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **GFTUL - Grafton Group PLC**

Citadel Securities (Europe) Limited (Program Three)

➤ **GFTd - GFT Technologies SE**

HRTEU Limited (Program Two)

➤ **GIgo - Gaming Innovation Group Inc**

HRTEU Limited (Program Two)

➤ **GILd - DMG Mori AG**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **GIVNz - Givaudan SA**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ GJFo - Gjensidige Forsikring ASA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ GKPl - Gulf Keystone Petroleum Ltd

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Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ GLENI - Glencore PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ GLEp - Societe Generale SA

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UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ GLPGa - Galapagos NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ GNCl - Greencore Group PLC

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DRW Global Markets Limited (Program Three)

## ➤ GNSl - Genus PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)

## ➤ GNc - GN Store Nord AS

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Virtu Financial Ireland Ltd (Program Two)

## ➤ GOGLo - Golden Ocean Group Ltd

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ GOGL - Go-Ahead Group PLC/The

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ GPORL - Great Portland Estates PLC

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Virtu Financial Ireland Ltd (Program Two)

➤ GRCm - Lxyor MSCI Greece UCITS ETF

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HRTEU Limited (Program Two)

➤ GRFe - Grifols SA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ GRGL - Greggs PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ GRll - Grainger PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)

➤ GRNGs - Granges AB

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HRTEU Limited (Program Two)

➤ GSFo - Grieg Seafood ASA

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HRTEU Limited (Program Two)

➤ GSKl - GlaxoSmithKline PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ GSSl - Genesis Emerging Markets Fund Ltd

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Virtu Financial Ireland Ltd (Program Two)

➤ GURz - Gurit Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ GXId - Gerresheimer AG

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Virtu Financial Ireland Ltd (Program Two)

➤ GYSl - Gamesys Group PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ Gm - Assicurazioni Generali SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ HASl - Hays PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ HBHd - Hornbach Holding AG & Co KGaA

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HRTEU Limited (Program Two)

➤ HBRI - Harbour Energy PLC

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Citadel Securities (Europe) Limited (Program Three)

➤ HDDd - Heidelberger Druckmaschinen AG

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Virtu Financial Ireland Ltd (Program Two)

➤ HEIAa - Heineken NV

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Virtu Financial Ireland Ltd (Program Two)

➤ HEIJMa - Heijmans NV

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Virtu Financial Ireland Ltd (Program Two)

➤ HEIOa - Heineken Holding NV

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Virtu Financial Ireland Ltd (Program Two)

➤ HEId - HeidelbergCement AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ HELNz - Helvetia Holding AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ HEN3d - Henkel AG & Co KGaA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ HENd - Henkel AG & Co KGaA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ HERm - Hera SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HEXABs - Hexagon AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HFDl - Halfords Group PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HFGL - Hilton Food Group PLC

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Jane Street Financial Limited (Program Three)

## ➤ HHFAd - Hamburger Hafen und Logistik AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ HICLI - Hicl Infrastructure PLC

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Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HIGSx - iShares EUR High Yield Corp Bond UCITS ETF SEK Hedged (Acc)

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FlowTraders B.V. (Program Three)

## ➤ HIKL - Hikma Pharmaceuticals PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HILSL - Hill & Smith Holdings PLC

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Jane Street Financial Limited (Program Three)

## ➤ HLCLI - Helical PLC

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Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HLMAL - Halma PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HLNGo - Hoegh LNG Holdings Ltd

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HRTEU Limited (Program Two)

## ➤ HLL - Hargreaves Lansdown PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HMBs - H & M Hennes & Mauritz AB

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Virtu Financial Ireland Ltd (Program Two)

## ➤ HMSOL - Hammerson PLC

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Citadel Securities (Europe) Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HNR1d - Hannover Rueck SE

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Virtu Financial Ireland Ltd (Program Two)



➤ HNSAs - Hansa Biopharma AB

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HRTEU Limited (Program Two)

➤ HOCl - Hochschild Mining PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ HOFIs - Hoist Finance AB

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HRTEU Limited (Program Two)

➤ HOLMBs - Holmen AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ HOMEe - Neinor Homes SA

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HRTEU Limited (Program Two)

➤ HOTd - HOCHTIEF AG

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Virtu Financial Ireland Ltd (Program Two)

➤ HOp - Thales SA

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Virtu Financial Ireland Ltd (Program Two)

➤ HPOLBs - Hexpol AB

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HRTEU Limited (Program Two)

➤ HSBAl - HSBC Holdings PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ HSBKl - Halyk Savings Bank of Kazakhstan JSC

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Hudson River Trading Europe Limited (Program Three)

➤ HSPXl - HSBC S&P 500 UCITS ETF

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Hudson River Trading Europe Limited (Program Three)

## ➤ HSVI - HomeServe PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ HSXI - Hiscox Ltd

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HTGI - Hunting PLC

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Virtu Financial Ireland Ltd (Program Two)

## ➤ HTWSI - Helios Towers PLC

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Jane Street Financial Limited (Program Three)

## ➤ HUBNz - Huber + Suhner AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ HUFVAs - Hufvudstaden AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HUH1Vh - Huhtamaki Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ HUKXI - HSBC FTSE 100 UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ HUKXz - HSBC FTSE 100 UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ HUSQAs - Husqvarna AB

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Virtu Financial Ireland Ltd (Program Two)

## ➤ HUSQBs - Husqvarna AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ HWDNI - Howden Joinery Group PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ HYm - Lyxor ESG Euro High Yield DR UCITS ETF

HRTEU Limited (Program Two)

## ➤ I37Mx - iShares USD Treasury Bond 3-7yr UCITS ETF MXN Hedged (Acc)

FlowTraders B.V. (Program Three)

## ➤ IAEXa - iShares AEX UCITS ETF

Optiver V.O.F. (Program Two)

## ➤ IAEXl - iShares AEX UCITS ETF

Optiver V.O.F. (Program Two)

## ➤ IAGe - International Consolidated Airlines Group SA

Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ IAGl - International Consolidated Airlines Group SA

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ IB1MXx - iShares USD Treasury Bond 0-1yr UCITS ETF

FlowTraders B.V. (Program Three)

## ➤ IBABb - Ion Beam Applications

Virtu Financial Ireland Ltd (Program Two)

## ➤ IBCIm - iShares EUR Inflation Linked Govt Bond UCITS ETF

HRTEU Limited (Program Two)

## ➤ IBEXAe - Lyxor IBEX 35 Doble Apalancado Diario UCITS ETF

Optiver V.O.F. (Program Three)

➤ [IBEe - Iberdrola SA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [IBGMx - iShares EUR Govt Bond 1-3yr UCITS ETF MXN Hedged \(Acc\)](#)

FlowTraders B.V. (Program Three)

➤ [IBSTl - Istock PLC](#)

Jane Street Financial Limited (Program Three)

➤ [IBTMXx - iShares USD Treasury Bond 1-3yr UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [IBTMm - iShares USD Treasury Bond 7-10yr UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [IBTSm - iShares USD Treasury Bond 1-3yr UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [IBZLm - iShares MSCI Brazil UCITS ETF USD Dist](#)

HRTEU Limited (Program Two)

➤ [ICADp - ICADE](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ICAs - ICA Gruppen AB](#)

HRTEU Limited (Program Two)

➤ [ICPl - Intermediate Capital Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

➤ [IDIAz - Idorsia Ltd](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ IDRe - Indra Sistemas SA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ IDTXx - iShares USD Treasury Bond 7-10yr UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)

➤ IDUSI - iShares Core S&P 500 UCITS ETF USD Dist

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Optiver V.O.F. (Program Three)

➤ IDVYm - iShares Euro Dividend UCITS ETF

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HRTEU Limited (Program Two)

➤ IEACm - iShares Core EUR Corp Bond UCITS ETF

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HRTEU Limited (Program Two)

➤ IEASx - iShares Core EUR Corp Bond UCITS ETF SEK Hedged (Acc)

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FlowTraders B.V. (Program Three)

➤ IEEMI - iShares MSCI EM UCITS ETF USD Dist

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Virtu Financial Ireland Ltd (Program Two)

➤ IEEMm - iShares MSCI EM UCITS ETF USD Dist

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HRTEU Limited (Program Two)

➤ IEGMx - iShares EUR Govt Bond 0-1yr UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)

➤ IEUXa - iShares MSCI Europe ex-UK UCITS ETF

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Optiver V.O.F. (Program Two)

➤ IEUXI - iShares MSCI Europe ex-UK UCITS ETF

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Optiver V.O.F. (Program Two)

➤ IEUXm - iShares MSCI Europe ex-UK UCITS ETF

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Optiver V.O.F. (Program Two)

➤ IEUXz - iShares MSCI Europe ex-UK UCITS ETF

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Optiver V.O.F. (Program Two)

➤ IFCNz - Inficon Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ IFXd - Infineon Technologies AG

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Virtu Financial Ireland Ltd (Program Two)

➤ IFm - Banca IFIS SpA

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HRTEU Limited (Program Two)

➤ IGDm - Immobiliare Grande Distribuzione SIIQ SpA

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HRTEU Limited (Program Two)

➤ IGGL - IG Group Holdings PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ IGLMx - iShares UK Gilts 0-5yr UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)

➤ IGm - Italgas SpA

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HRTEU Limited (Program Two)

➤ IHGL - InterContinental Hotels Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ IHPL - IntegraFin Holdings PLC

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Jane Street Financial Limited (Program Three)

➤ IHYGm - iShares EUR High Yield Corp Bond UCITS ETF

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HRTEU Limited (Program Two)

➤ [IHYMXx - iShares USD High Yield Corp Bond UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [IHYSx - iShares USD High Yield Corp Bond UCITS ETF SEK Hedged \(Acc\)](#)

FlowTraders B.V. (Program Three)

➤ [IIAv - IMMOFINANZ AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [IIll - 3i Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [IJPAX - iShares Core MSCI EMU UCITS ETF MXN Hedged \(Acc\)](#)

FlowTraders B.V. (Program Three)

➤ [IJPEm - iShares MSCI Japan EUR Hedged UCITS ETF Acc](#)

HRTEU Limited (Program Two)

➤ [IJPNm - iShares MSCI Japan UCITS ETF USD Dist](#)

HRTEU Limited (Program Two)

➤ [ILDp - Iliad SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ILTYm - Illimity Bank SpA](#)

HRTEU Limited (Program Two)

➤ [IMAEa - iShares Core MSCI Europe UCITS ETF EUR Acc](#)

Optiver V.O.F. (Program Two)

## ➤ IMBl - Imperial Brands PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ IMEAX - iShares Core MSCI Europe UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)

## ➤ IMEAz - iShares Core MSCI Europe UCITS ETF EUR Acc

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Optiver V.O.F. (Program Two)

## ➤ IMEUa - iShares Core MSCI Europe UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ IMEUL - iShares Core MSCI Europe UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ IMEUm - iShares Core MSCI Europe UCITS ETF

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

## ➤ IMEUz - iShares Core MSCI Europe UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ IMIBm - iShares FTSE MIB UCITS ETF EUR Dist

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HRTEU Limited (Program Two)

## ➤ IMIl - IMI PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ IMMx - iShares US Mortgage Backed Securities UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)



## ➤ IMPNz - Implen AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ IMSm - IMMSI SpA

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HRTEU Limited (Program Two)

## ➤ INCHl - Inchcape PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ INDIIm - Lyxor MSCI India UCITS ETF

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HRTEU Limited (Program Two)

## ➤ INDTs - Indutrade AB

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HRTEU Limited (Program Two)

## ➤ INDUAs - Industrivarden AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ INDUCs - Industrivarden AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ INDVl - Indivior PLC

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Jane Street Financial Limited (Program Three)

## ➤ INFl - Informa PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ INGAa - ING Groep NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ INPPL - International Public Partnerships Ltd

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Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)

## ➤ INRNz - Interroll Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ INTOb - Interinvest Offices & Warehouses NV

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HRTEU Limited (Program Two)

## ➤ INTRUs - Intrum AB

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HRTEU Limited (Program Two)

## ➤ INVEAs - Investor AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ INVEBs - Investor AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ INVPL - Investec PLC

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Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ INWIs - Inwido AB

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HRTEU Limited (Program Two)

## ➤ INWm - Infrastrutture Wireless Italiane SpA

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HRTEU Limited (Program Two)

## ➤ IPFI - International Personal Finance PLC

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Virtu Financial Ireland Ltd (Program Two)

## ➤ IPNp - Ipsen SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ IPOI - IP Group PLC

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Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ IPSp - IPSOS

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Virtu Financial Ireland Ltd (Program Two)

## ➤ IPm - Interpump Group SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ IREm - Iren SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ISFAa - iShares plc - iShares Core FTSE 100 UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ ISFl - iShares plc - iShares Core FTSE 100 UCITS ETF

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Optiver V.O.F. (Program Three)

## ➤ ISFm - iShares plc - iShares Core FTSE 100 UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ ISFz - iShares plc - iShares Core FTSE 100 UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ ISPm - Intesa Sanpaolo SpA

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HRTEU Limited (Program Two)  
UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ISSc - ISS A/S

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Virtu Financial Ireland Ltd (Program Two)

## ➤ ISX5l - iShares Core EURO STOXX 50 UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ ITAMIm - Lyxor FTSE Italia PMI PIR 2020 DR UCITS ETF

HRTEU Limited (Program Two)

## ➤ ITPp - Interparfums SA

HRTEU Limited (Program Two)

## ➤ ITRKl - Intertek Group PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ITVl - ITV PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ITXe - Industria de Diseno Textil SA

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ IUSAm - iShares Core S&P 500 UCITS ETF USD Dist

HRTEU Limited (Program Two)

## ➤ IWDEm - iShares MSCI World EUR Hedged UCITS ETF Acc

HRTEU Limited (Program Two)

## ➤ IWDPl - iShares Developed Markets Property Yield UCITS ETF

Hudson River Trading Europe Limited (Program Three)

## ➤ IWGl - IWG PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ IWMOl - iShares Edge MSCI World Momentum Factor UCITS ETF

Hudson River Trading Europe Limited (Program Three)

➤ [IWRDm - iShares MSCI World UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [IWWUx - iShares Edge MSCI World Value Factor UCITS ETF USD \(Dist\)](#)

FlowTraders B.V. (Program Three)

➤ [JCQp - Jacquet Metals SACA](#)

HRTEU Limited (Program Two)

➤ [JDWL - J D Wetherspoon PLC](#)

Jane Street Financial Limited (Program Three)

➤ [JDI - JD Sports Fashion PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

➤ [JETI - Just Eat Takeaway.com NV](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

➤ [JHYMx - JPM Global High Yield Corporate Bond Multi-Factor UCITS ETF - MXN Hedge](#)

FlowTraders B.V. (Program Three)

➤ [JLGI - John Laing Group PLC](#)

Jane Street Financial Limited (Program Three)

➤ [JMATI - Johnson Matthey PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [JMBMx - JPM USD Emerging Markets Sovereign Bond UCITS ETF - MXN Hedged \(acc\)](#)

FlowTraders B.V. (Program Three)

➤ JMGI - JPMorgan Emerging Markets Investment Trust plc

Citadel Securities (Europe) Limited (Program Three)

➤ JMTu - Jeronimo Martins SGPS SA

Virtu Financial Ireland Ltd (Program Two)

➤ JMs - JM AB

HRTEU Limited (Program Two)

➤ JPNp - Lyxor Japan TOPIX DR UCITS ETF

HRTEU Limited (Program Two)

➤ JSTd - JOST Werke AG

HRTEU Limited (Program Two)

➤ JU3Mx - JPM BetaBuilders US Treasury Bond 1-3 yr UCITS ETF - MXN Hedged (acc)

FlowTraders B.V. (Program Three)

➤ JUPl - Jupiter Fund Management PLC

DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ JUSTI - Just Group PLC

Jane Street Financial Limited (Program Three)

➤ JUVEm - Juventus Football Club SpA

HRTEU Limited (Program Two)

➤ JYSKc - Jyske Bank A/S

Virtu Financial Ireland Ltd (Program Two)

➤ KARNz - Kardex Holding AG

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ KAROs - Karo Pharma AB

HRTEU Limited (Program Two)

## ➤ KAZI - KAZ Minerals PLC

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BRED Banque Populaire (Program Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)

## ➤ KBCb - KBC Group NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ KBXd - Knorr-Bremse AG

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HRTEU Limited (Program Two)

## ➤ KCOd - Kloeckner & Co SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ KCRh - Konecranes Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ KEMIRh - Kemira Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ KENDRa - Kendrion NV

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HRTEU Limited (Program Two)

## ➤ KERp - Kering SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ KESKBh - Kesko Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ KGFl - Kingfisher PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ KINDs - Kindred Group PLC

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ KINVBs - Kinnevik AB

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Virtu Financial Ireland Ltd (Program Two)

➤ KLEDs - Kungsleden AB

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HRTEU Limited (Program Two)

➤ KLOVBs - Klovern AB

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HRTEU Limited (Program Two)

➤ KNEBVh - Kone Oyj

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Virtu Financial Ireland Ltd (Program Two)

➤ KNINz - Kuehne + Nagel International AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ KNOSI - Kainos Group PLC

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Jane Street Financial Limited (Program Three)

➤ KNp - Natixis SA

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Virtu Financial Ireland Ltd (Program Two)

➤ KOAo - Kongsberg Automotive ASA

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HRTEU Limited (Program Two)

➤ KOGGo - Kongsberg Gruppen ASA

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HRTEU Limited (Program Two)

➤ KOMNz - Komax Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ KPNa - Koninklijke KPN NV

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Virtu Financial Ireland Ltd (Program Two)



➤ [KRNd - Kronos AG](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [KRXi - Kingspan Group PLC](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [KRZi - Kerry Group PLC](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [KU2d - KUKA AG](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [KUDz - Kudelski SA](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [KYGAl - Kerry Group PLC](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [LANDl - Land Securities Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [LANDz - Landis+Gyr Group AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [LBKe - Liberbank SA](#)

HRTEU Limited (Program Two)

➤ [LBRTm - WisdomTree Brent Crude Oil 2x Daily Leveraged](#)

Optiver V.O.F. (Program Three)

➤ [LCOPm - WisdomTree Copper 2x Daily Leveraged](#)

Optiver V.O.F. (Program Three)

➤ LDOm - Leonardo SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ LDm - La Doria SpA

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HRTEU Limited (Program Two)

➤ LEHNz - LEM Holding SA

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ LEHTOh - Lehto Group Oyj

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HRTEU Limited (Program Two)

➤ LEMDl - Lyxor MSCI Emerging Markets UCITS ETF

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Virtu Financial Ireland Ltd (Program Two)

➤ LEONIm - Lyxor Euro Overnight Return UCITS ETF

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HRTEU Limited (Program Two)

➤ LEOd - Leoni AG

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Virtu Financial Ireland Ltd (Program Two)

➤ LEVMIm - Lyxor FTSE MIB Daily 2x Leveraged UCITS ETF

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HRTEU Limited (Program Two)

➤ LGENl - Legal & General Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ LHAd - Deutsche Lufthansa AG

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ LHNp - LafargeHolcim Ltd

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Jane Street Financial Limited (Program Three)

## ➤ LHNz - LafargeHolcim Ltd

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ LIABs - Lindab International AB

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HRTEU Limited (Program Two)

## ➤ LIFCBs - Lifco AB

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HRTEU Limited (Program Two)

## ➤ LIND - Linde PLC

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Virtu Financial Ireland Ltd (Program Two)

## ➤ LIOI - Liontrust Asset Management PLC

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Jane Street Financial Limited (Program Three)

## ➤ LISNz - Chocoladefabriken Lindt & Spruengli AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

## ➤ LISPz - Chocoladefabriken Lindt & Spruengli AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ LITm - Retelit SpA

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HRTEU Limited (Program Two)

## ➤ Llp - Klepierre SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ LKODI - LUKOIL PJSC

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Citadel Securities (Europe) Limited (Program Three)

## ➤ LLOYL - Lloyds Banking Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ LMPL - LondonMetric Property PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

## ➤ LNGAL - WisdomTree Natural Gas 2x Daily Leveraged

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Optiver V.O.F. (Program Three)

## ➤ LNGAm - WisdomTree Natural Gas 2x Daily Leveraged

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Optiver V.O.F. (Program Three)

## ➤ LNSXd - Sixt Leasing SE

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HRTEU Limited (Program Two)

## ➤ LNTAL - Lenta Plc

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Hudson River Trading Europe Limited (Program Three)

## ➤ LNZv - Lenzing AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ LOCALp - Solocal Group

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HRTEU Limited (Program Two)

## ➤ LOGNz - Logitech International SA

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ LOGe - Cia de Distribucion Integral Logista Holdings SA

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HRTEU Limited (Program Two)

## ➤ LOILL - WisdomTree WTI Crude Oil 2x Daily Leveraged

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Optiver V.O.F. (Program Three)

➤ [LOILm - WisdomTree WTI Crude Oil 2x Daily Leveraged](#)

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Three)

➤ [LONNz - Lonza Group AG](#)

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)

➤ [LOOMIs - Loomis AB](#)

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HRTEU Limited (Program Two)

➤ [LOTBb - Lotus Bakeries NV](#)

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HRTEU Limited (Program Two)

➤ [LPLAm - WisdomTree Platinum 2x Daily Leveraged](#)

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Optiver V.O.F. (Program Three)

➤ [LQCSx - iShares USD Corp Bond UCITS ETF SEK Hedged \(Acc\)](#)

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FlowTraders B.V. (Program Three)

➤ [LQDEI - iShares USD Corp Bond UCITS ETF](#)

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Hudson River Trading Europe Limited (Program Three)

➤ [LQDMx - iShares USD Corp Bond UCITS ETF MXN Hedged \(Acc\)](#)

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FlowTraders B.V. (Program Three)

➤ [LQMHx - iShares USD Corp Bond Interest Rate Hedged UCITS ETF MXN Hedged \(Acc\)](#)

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FlowTraders B.V. (Program Three)

➤ [LQQp - Lyxor Nasdaq-100 Daily 2x Leveraged UCITS ETF](#)

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HRTEU Limited (Program Two)

➤ [LREL - Lancashire Holdings Ltd](#)

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ LRM - Landi Renzo SpA

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HRTEU Limited (Program Two)

➤ LRP - Legrand SA

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Virtu Financial Ireland Ltd (Program Two)

➤ LSEGL - London Stock Exchange Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

➤ LSGO - Leroy Seafood Group ASA

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HRTEU Limited (Program Two)

➤ LSRGL - LSR Group PJSC

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Hudson River Trading Europe Limited (Program Three)

➤ LTODL - Larsen & Toubro Ltd

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Hudson River Trading Europe Limited (Program Three)

➤ LUCs - Lucara Diamond Corp

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HRTEU Limited (Program Two)

➤ LUKNz - Luzerner Kantonalbank AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ LUMIs - Lundin Mining Corp

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ LUNDBs - L E Lundbergforetagen AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ LUNc - H Lundbeck A/S

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Virtu Financial Ireland Ltd (Program Two)

➤ LVCp - Lyxor CAC 40 Daily 2x Leveraged UCITS ETF

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Optiver V.O.F. (Program Two)

➤ [LXSd - LANXESS AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [LYM8d - Lyxor World Water DR UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [LYMEUz - Lyxor MSCI Europe DR UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [LYP6d - Lyxor Core STOXX Europe 600 DR](#)

Optiver V.O.F. (Program Two)

➤ [LYSXd - Lyxor EURO STOXX 50 DR UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [LYXIBe - Lyxor IBEX 35 DR UCITS ETF](#)

Optiver V.O.F. (Program Three)

➤ [LYY5d - Lyxor MSCI Europe DR UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [LYY7d - Lyxor DAX DR UCITS ETF](#)

Optiver V.O.F. (Program Three)

➤ [MABl - Mitchells & Butlers PLC](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MAERAc - AP Moller - Maersk A/S](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MAERBc - AP Moller - Maersk A/S](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MAILl - Mail.Ru Group Ltd](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [MANd - MAN SE](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MAPe - Mapfre SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MARRm - MARR SpA](#)

HRTEU Limited (Program Two)

➤ [MARSI - Marston's PLC](#)

Jane Street Financial Limited (Program Three)

➤ [MATASc - Matas A/S](#)

HRTEU Limited (Program Two)

➤ [MAUp - Etablissements Maurel et Prom SA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [MBILx - JPM BetaBuilders US Treasury Bond 0-1yr UCITS ETF MXN Hedged \(Acc\)](#)

FlowTraders B.V. (Program Three)

➤ [MBTNz - Meyer Burger Technology AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [MBWSp - Marie Brizard Wine & Spirits SA](#)

HRTEU Limited (Program Two)

➤ [MBm - Mediobanca Banca di Credito Finanziario SpA](#)

HRTEU Limited (Program Two)  
UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [MCOVBs - Medicover AB](#)

HRTEU Limited (Program Two)



## ➤ MCROl - Micro Focus International PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ MCp - LVMH Moet Hennessy Louis Vuitton SE

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UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ MDAXEz - iShares MDAX UCITS ETF DE

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Optiver V.O.F. (Program Three)

## ➤ MDCl - Mediclinic International PLC

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DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ MDG1d - Medigene AG

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HRTEU Limited (Program Two)

## ➤ MDMp - Maisons du Monde SA

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HRTEU Limited (Program Two)

## ➤ MEKOs - Mekonomen AB

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HRTEU Limited (Program Two)

## ➤ MELe - Melia Hotels International SA

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HRTEU Limited (Program Two)

## ➤ MERYp - Mercialys SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ METNz - Metall Zug AG

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Citadel Securities (Europe) Limited (Program Three)

## ➤ METSBh - Metsa Board Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ MEUDm - Lyxor Core STOXX Europe 600 DR

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Optiver V.O.F. (Program Two)

➤ MEUDp - Lyxor Core STOXX Europe 600 DR

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ MEUm - Lyxor MSCI Europe DR UCITS ETF

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Optiver V.O.F. (Program Two)

➤ MEUp - Lyxor MSCI Europe DR UCITS ETF

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ MFEp - Lyxor Core MSCI EMU DR UCITS ETF

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Optiver V.O.F. (Program Two)

➤ MFp - Wendel SE

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Virtu Financial Ireland Ltd (Program Two)

➤ MGAMl - Morgan Advanced Materials PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ MGGTl - Meggitt PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ MGNSl - Morgan Sindall Group PLC

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Jane Street Financial Limited (Program Three)

➤ MHIDl - Mahindra & Mahindra Ltd

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Hudson River Trading Europe Limited (Program Three)

➤ MIBp - Lyxor FTSE MIB UCITS ETF

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Optiver V.O.F. (Program Two)

➤ MINGo - SpareBank 1 SMN

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HRTEU Limited (Program Two)

## ➤ MITRAb - Mithra Pharmaceuticals SA

HRTEU Limited (Program Two)

## ➤ MKEAp - Mauna Kea Technologies

HRTEU Limited (Program Two)

## ➤ MKSl - Marks & Spencer Group PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ MLp - Cie Generale des Etablissements Michelin SCA

Virtu Financial Ireland Ltd (Program Two)

## ➤ MMBp - Lagardere SCA

Virtu Financial Ireland Ltd (Program Two)

## ➤ MMKv - Mayr Melnhof Karton AG

Virtu Financial Ireland Ltd (Program Two)

## ➤ MMSp - Lyxor MSCI EMU Small Cap DR UCITS ETF

HRTEU Limited (Program Two)

## ➤ MMTp - Metropole Television SA

Virtu Financial Ireland Ltd (Program Two)

## ➤ MNDIl - Mondl PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ MNGI - M&G PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

➤ MNKSl - Monks Investment Trust PLC/The

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Citadel Securities (Europe) Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ MNODL - MMC Norilsk Nickel PJSC

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Citadel Securities (Europe) Limited (Program Three)

➤ MNZSl - John Menzies PLC

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Hudson River Trading Europe Limited (Program Three)

➤ MNm - Arnaldo Mondadori Editore SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ MOBNz - Mobimo Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ MOLm - Gruppo MutuiOnline SpA

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HRTEU Limited (Program Two)

➤ MONCm - Moncler SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ MONTb - Montea C.V.A

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HRTEU Limited (Program Two)

➤ MONYl - Moneysupermarket.com Group PLC

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Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ MORd - MorphoSys AG

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Virtu Financial Ireland Ltd (Program Two)

➤ MOZNz - Mobilezone Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ MRCl - Mercantile Investment Trust PLC

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Citadel Securities (Europe) Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ MRKd - Merck KGaA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ MRLe - Merlin Properties Socimi SA

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HRTEU Limited (Program Two)

## ➤ MROl - Melrose Industries PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ MRWl - Wm Morrison Supermarkets PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ MSEm - Lyxor EURO STOXX 50 DR UCITS ETF

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

## ➤ MSEp - Lyxor EURO STOXX 50 DR UCITS ETF

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Optiver V.O.F. (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ MSEz - Lyxor EURO STOXX 50 DR UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ MSLHl - Marshalls PLC

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Jane Street Financial Limited (Program Three)

## ➤ MSm - Mediaset SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [MTGBs - Modern Times Group MTG AB](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [MTOL - Mitie Group PLC](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MTROL - Metro Bank PLC](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [MTRSs - Munters Group AB](#)

HRTEU Limited (Program Two)

➤ [MTSe - ArcelorMittal SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MTUp - Manitou BF SA](#)

HRTEU Limited (Program Two)

➤ [MTXd - MTU Aero Engines AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MTa - ArcelorMittal SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [MTm - Maire Tecnimont SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [MUV2d - Muenchener Rueckversicherungs-Gesellschaft AG in Muenchen](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [MVEUm - iShares Edge MSCI Europe Minimum Volatility UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [MVOLL - iShares Edge MSCI World Minimum Volatility UCITS ETF](#)

Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ MYCRs - Mycronic AB

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HRTEU Limited (Program Two)

➤ MYII - Murray International Trust PLC

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Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ N91I - Ninety One PLC

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Jane Street Financial Limited (Program Three)

➤ NANOVo - Nordic Nanovector ASA

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HRTEU Limited (Program Two)

➤ NANOp - Nanobiotix SA

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HRTEU Limited (Program Two)

➤ NASo - Norwegian Air Shuttle ASA

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Virtu Financial Ireland Ltd (Program Two)

➤ NBMI - NB Global Monthly Income Fund Ltd

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Hudson River Trading Europe Limited (Program Three)

➤ NCCBs - NCC AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ NDAc - Nordea Bank Abp

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Virtu Financial Ireland Ltd (Program Two)

➤ NDAa - Aurubis AG

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Virtu Financial Ireland Ltd (Program Two)

➤ NDAs - Nordea Bank Abp

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Virtu Financial Ireland Ltd (Program Two)

➤ NDX1d - Nordex SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ NDXHp - Amundi Nasdaq-100 UCITS ETF

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HRTEU Limited (Program Two)

## ➤ NESNz - Nestle SA

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ NESTeh - Neste Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ NETWl - Network International Holdings PLC

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Jane Street Financial Limited (Program Three)

## ➤ NEWABs - New Wave Group AB

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HRTEU Limited (Program Two)

## ➤ NEXIm - Nexi SpA

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HRTEU Limited (Program Two)

## ➤ NEXl - National Express Group PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ NEXp - Nexans SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ NGl - National Grid PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ NHHe - NH Hotel Group SA

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HRTEU Limited (Program Two)



➤ [NHYo - Norsk Hydro ASA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NIBEBs - Nibe Industrier AB](#)

HRTEU Limited (Program Two)

➤ [NKTc - NKT A/S](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NKp - Imerys SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NOBINs - Nobina AB](#)

HRTEU Limited (Program Two)

➤ [NOBIs - Nobia AB](#)

HRTEU Limited (Program Two)

➤ [NODo - Nordic Semiconductor ASA](#)

HRTEU Limited (Program Two)

➤ [NOFlo - Norwegian Finans Holding ASA](#)

HRTEU Limited (Program Two)

➤ [NOKIAh - Nokia Oyj](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NOKIAs - Nokia Oyj](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NOLABs - Nolato AB](#)

HRTEU Limited (Program Two)

➤ [NONGo - SpareBank 1 Nord Norge](#)

HRTEU Limited (Program Two)

➤ [NOSu - NOS SGPS SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NOVNz - Novartis AG](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [NOVOBc - Novo Nordisk A/S](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NPROo - Norwegian Property ASA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NRSo - Norway Royal Salmon ASA](#)

HRTEU Limited (Program Two)

➤ [NSIa - NSI NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NTGYe - Naturgy Energy Group SA](#)

HRTEU Limited (Program Two)

➤ [NVGu - Navigator Co SA/The](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [NVTkl - Novatek PJSC](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [NWGl - Natwest Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

## ➤ NXIp - Nexity SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ NXTI - Next PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ NYRb - Nyrstar NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ NZYMBc - Novozymes A/S

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Virtu Financial Ireland Ltd (Program Two)

## ➤ O2Dd - Telefonica Deutschland Holding AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ OBELb - Orange Belgium SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ OCDOI - Ocado Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ OCla - OCI NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ OCYo - Ocean Yield ASA

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HRTEU Limited (Program Two)

## ➤ OD7Cd - WisdomTree Copper

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Optiver V.O.F. (Program Three)

➤ OD7Ld - WisdomTree Natural Gas

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Optiver V.O.F. (Program Three)

➤ ODL0 - Odfjell Drilling Ltd

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HRTEU Limited (Program Two)

➤ OERLz - OC Oerlikon Corp AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ OGZDI - Gazprom PJSC

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Citadel Securities (Europe) Limited (Program Three)

➤ OHLe - Obrascon Huarte Lain SA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ OILp - Lyxor STOXX Europe 600 Oil & Gas UCITS ETF

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HRTEU Limited (Program Two)

➤ OJMm - Openjobmetis Spa agenzia per il lavoro

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HRTEU Limited (Program Two)

➤ OKDAVh - Oriola Oyj

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Virtu Financial Ireland Ltd (Program Two)

➤ OKDBVh - Oriola Oyj

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HRTEU Limited (Program Two)

➤ OMUL - Old Mutual Ltd

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Hudson River Trading Europe Limited (Program Three)

➤ OMVv - OMV AG

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Virtu Financial Ireland Ltd (Program Two)

➤ OOEAAd - WisdomTree Brent Crude Oil

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Optiver V.O.F. (Program Three)

➤ OPNp - Groupe Open

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HRTEU Limited (Program Two)

➤ ORAp - Orange SA

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UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ ORDla - Ordina NV

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Virtu Financial Ireland Ltd (Program Two)

➤ ORKo - Orkla ASA

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Virtu Financial Ireland Ltd (Program Two)

➤ ORNAVh - Orion Oyj

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Virtu Financial Ireland Ltd (Program Two)

➤ ORNBVh - Orion Oyj

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Virtu Financial Ireland Ltd (Program Two)

➤ ORONz - Orior AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ ORPp - Orpea SA

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UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ ORp - L'Oreal SA

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Virtu Financial Ireland Ltd (Program Two)

➤ OSBl - OSB Group PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ OTBl - On the Beach Group PLC

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Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ OTECo - Otello Corp ASA

HRTEU Limited (Program Two)

➤ OUT1Vh - Outokumpu Oyj

Virtu Financial Ireland Ltd (Program Two)

➤ OVSm - OVS SpA

HRTEU Limited (Program Two)

➤ OXBl - Oxford Biomedica PLC

Jane Street Financial Limited (Program Three)

➤ OXIGl - Oxford Instruments PLC

Jane Street Financial Limited (Program Three)

➤ OXURb - Oxurion NV

HRTEU Limited (Program Two)

➤ PAALBc - Per Aarsleff Holding A/S

HRTEU Limited (Program Two)

➤ PAGEl - Pagegroup PLC

Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ PAGl - Paragon Banking Group PLC

Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ PAH3d - Porsche Automobil Holding SE

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ PALv - Palfinger AG

Virtu Financial Ireland Ltd (Program Two)

➤ PANm - Panariagroup Industrie Ceramiche SpA

HRTEU Limited (Program Two)

➤ [PARROp - Parrot SA](#)

HRTEU Limited (Program Two)

➤ [PAYl - PayPoint PLC](#)

Jane Street Financial Limited (Program Three)

➤ [PCTl - Polar Capital Technology Trust PLC](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [PDGl - Pendragon PLC](#)

Hudson River Trading Europe Limited (Program Three)

➤ [PETSl - Pets at Home Group Plc](#)

Jane Street Financial Limited (Program Three)

➤ [PFCl - Petrofac Ltd](#)

DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [PFDl - Premier Foods PLC](#)

Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [PFGl - Provident Financial PLC](#)

Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [PGHNz - Partners Group Holding AG](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)

➤ [PGNd - Paragon GmbH & Co KGaA](#)

HRTEU Limited (Program Two)

➤ [PGSo - PGS ASA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ PHAUL - WisdomTree Physical Gold

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Optiver V.O.F. (Program Three)

➤ PHAUm - WisdomTree Physical Gold

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Three)

➤ PHIAa - Koninklijke Philips NV

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Virtu Financial Ireland Ltd (Program Two)

➤ PHMe - Pharma Mar SA

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HRTEU Limited (Program Two)

➤ PHNXI - Phoenix Group Holdings PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

➤ PHPDI - WisdomTree Physical Palladium

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Optiver V.O.F. (Program Three)

➤ PHPDm - WisdomTree Physical Palladium

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Optiver V.O.F. (Program Three)

➤ PHPTm - WisdomTree Physical Platinum

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Optiver V.O.F. (Program Three)

➤ PHPl - Primary Health Properties PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)

➤ PHTMl - Photo-Me International PLC

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Hudson River Trading Europe Limited (Program Three)

➤ PIAm - Piaggio & C SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)



➤ [PIGp - Haulotte Group SA](#)

HRTEU Limited (Program Two)

➤ [PINFm - Pininfarina SpA](#)

HRTEU Limited (Program Two)

➤ [PIRCm - Pirelli & C SpA](#)

HRTEU Limited (Program Two)

➤ [PLUSl - Plus500 Ltd](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [PMAGz - PIERER Mobility AG](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [PNDORc - Pandora A/S](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [PNDXBs - Pandox AB](#)

HRTEU Limited (Program Two)

➤ [PNLa - PostNL NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [PNNl - Pennon Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [POLYl - Polymetal International PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

➤ POMp - Cie Plastic Omnium SA

Virtu Financial Ireland Ltd (Program Two)

➤ POSTv - Oesterreichische Post AG

Virtu Financial Ireland Ltd (Program Two)

➤ POXELp - Poxel SA

HRTEU Limited (Program Two)

➤ PRIm - Prima Industrie SpA

HRTEU Limited (Program Two)

➤ PROXb - Proximus SADP

Virtu Financial Ireland Ltd (Program Two)

➤ PROm - Banca Profilo SpA

HRTEU Limited (Program Two)

➤ PRSe - Promotora de Informaciones SA

Virtu Financial Ireland Ltd (Program Two)

➤ PRTm - Esprinet SpA

HRTEU Limited (Program Two)

➤ PRUl - Prudential PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
 Citadel Securities (Europe) Limited (Program Three)  
 DRW Global Markets Limited (Program Three)  
 Jane Street Financial Limited (Program Three)  
 Qube Master Fund Limited (Program One)  
 Societe Generale London Branch (Program Three)  
 Tower Research Capital Europe Limited (Program Two)  
 Virtu Financial Ireland Ltd (Program Two)

➤ PRXa - Prosus NV

HRTEU Limited (Program Two)

➤ PRYm - Prysmian SpA

HRTEU Limited (Program Two)  
 Virtu Financial Ireland Ltd (Program Two)

## ➤ PSGe - Prosegur Cia de Seguridad SA

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HRTEU Limited (Program Two)

## ➤ PSHL - Pershing Square Holdings Ltd/Fund

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BNP Paribas Arbitrage SNC (Program One and Three)

## ➤ PSMd - ProSiebenSat.1 Media SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ PSNI - Persimmon PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ PSONI - Pearson PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ PSPNz - PSP Swiss Property AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ PSTm - Poste Italiane SpA

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HRTEU Limited (Program Two)

## ➤ PTECl - Playtech Plc

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DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ PUBp - Publicis Groupe SA

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Virtu Financial Ireland Ltd (Program Two)

➤ PUMd - Puma SE

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Virtu Financial Ireland Ltd (Program Two)

➤ PZCl - PZ Cussons PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ QDIVL - iShares MSCI USA Quality Dividend UCITS ETF

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Virtu Financial Ireland Ltd (Program Two)

➤ QIAd - QIAGEN NV

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Virtu Financial Ireland Ltd (Program Two)

➤ QLTI - Quilter PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ QQI - QinetiQ Group PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ R6Cd - Royal Dutch Shell PLC

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Jane Street Financial Limited (Program Three)  
Optiver V.O.F. (Program Three)

➤ RACEm - Ferrari NV

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ RAIWh - Raisio Oyj

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HRTEU Limited (Program Two)

➤ RALp - Rallye SA

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Virtu Financial Ireland Ltd (Program Two)

➤ RANDa - Randstad NV

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Virtu Financial Ireland Ltd (Program Two)

➤ [RATOBs - Ratos AB](#)

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [RATL - Rathbone Brothers PLC](#)

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Jane Street Financial Limited (Program Three)

➤ [RAYBs - RaySearch Laboratories AB](#)

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HRTEU Limited (Program Two)

➤ [RBlv - Raiffeisen Bank International AG](#)

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Virtu Financial Ireland Ltd (Program Two)

➤ [RBREWc - Royal Unibrew A/S](#)

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HRTEU Limited (Program Two)

➤ [RBTp - Robertet SA](#)

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HRTEU Limited (Program Two)

➤ [RCHL - Reach PLC](#)

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Jane Street Financial Limited (Program Three)

➤ [RCOp - Remy Cointreau SA](#)

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Virtu Financial Ireland Ltd (Program Two)

➤ [RCPl - RIT Capital Partners PLC/Fund](#)

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Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [RCSm - Rizzoli Corriere Della Sera Mediagroup SpA](#)

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [RDSAa - Royal Dutch Shell PLC](#)

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UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RDSAl - Royal Dutch Shell PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RDSBa - Royal Dutch Shell PLC

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Jane Street Financial Limited (Program Three)

## ➤ RDSBl - Royal Dutch Shell PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RDWl - Redrow PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ RECSlO - REC Silicon ASA

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HRTEU Limited (Program Two)

## ➤ RECb - Recticel SA

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HRTEU Limited (Program Two)

## ➤ RECM - Recordati Industria Chimica e Farmaceutica SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ REDDl - Redde Northgate PLC

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Jane Street Financial Limited (Program Three)

## ➤ REEe - Red Electrica Corp SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ RELI - RELX PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RENEu - REN - Redes Energeticas Nacionais SGPS SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ RENa - RELX PLC

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UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ REPe - Repsol SA

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HRTEU Limited (Program Two)  
UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RESURs - Resurs Holding AB

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HRTEU Limited (Program Two)

## ➤ RETb - Retail Estates NV

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HRTEU Limited (Program Two)

## ➤ REYm - Reply SpA

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HRTEU Limited (Program Two)

## ➤ RFp - Eurazeo SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ RHIMl - RHI Magnesita NV

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Jane Street Financial Limited (Program Three)

## ➤ RHKd - RHOEN-KLINIKUM AG

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RHMd - Rheinmetall AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ RIENZ - Rieter Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ RILBAc - Ringkjoebing Landbobank A/S

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HRTEU Limited (Program Two)

## ➤ RIOI - Rio Tinto PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ Rlp - Pernod Ricard SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ RKTl - Reckitt Benckiser Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

## ➤ RMGl - Royal Mail PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ RmSp - Hermes International

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Virtu Financial Ireland Ltd (Program Two)

## ➤ RMVl - Rightmove PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)



➤ **RMm - Reno de Medici SpA**

HRTEU Limited (Program Two)

➤ **RNOp - Renault SA**

Virtu Financial Ireland Ltd (Program Two)

➤ **RNm - Risanamento SpA**

HRTEU Limited (Program Two)

➤ **ROB0m - L&G ROBO Global Robotics and Automation UCITS ETF**

HRTEU Limited (Program Two)

➤ **ROCKBc - ROCKWOOL International A/S**

HRTEU Limited (Program Two)

➤ **ROGz - Roche Holding AG**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **RORl - Rotork PLC**

BNP Paribas Arbitrage SNC (Program One and Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **ROSEz - Zur Rose Group AG**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ **ROVIOh - Rovio Entertainment Oyj**

HRTEU Limited (Program Two)

➤ **ROz - Roche Holding AG**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ RPSI - RPS Group PLC

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Hudson River Trading Europe Limited (Program Three)

## ➤ RRL - Rolls-Royce Holdings PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RSAI - RSA Insurance Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RSWI - Renishaw PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

## ➤ RTNI - Restaurant Group PLC/The

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RTOI - Rentokil Initial PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ RUIp - Rubis SCA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ RUSm - Lyxor MSCI Russia UCITS ETF

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HRTEU Limited (Program Two)

➤ [RWAYm - RAI Way SpA](#)

HRTEU Limited (Program Two)

➤ [RWEEd - RWE AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [RWIl - Renewi PLC](#)

Hudson River Trading Europe Limited (Program Three)

➤ [RXLp - Rexel SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [RY4Ci - Ryanair Holdings PLC](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [S600l - Invesco STOXX Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [S600z - Invesco STOXX Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [S92d - SMA Solar Technology AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [SAA1Vh - Sanoma Oyj](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [SAABBs - Saab AB](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [SABe - Banco de Sabadell SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [SAEMx - iShares MSCI EM IMI ESG Screened UCITS ETF USD \(Acc\)](#)

FlowTraders B.V. (Program Three)

➤ SAFp - Safran SA

Virtu Financial Ireland Ltd (Program Two)

➤ SAGAl - Saga PLC

Citadel Securities (Europe) Limited (Program Three)

➤ SALMo - Salmar ASA

HRTEU Limited (Program Two)

➤ SAMPOh - Sampo Oyj

Virtu Financial Ireland Ltd (Program Two)

➤ SANDs - Sandvik AB

Virtu Financial Ireland Ltd (Program Two)

➤ SANE - Banco Santander SA

HRTEU Limited (Program Two)  
UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ SANp - Sanofi

UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ SAPd - SAP SE

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ SASs - SAS AB

HRTEU Limited (Program Two)

➤ SAWDx - iShares MSCI World ESG Screened UCITS ETF USD (Acc)

FlowTraders B.V. (Program Three)

➤ SBANKo - Sbanken ASA

HRTEU Limited (Program Two)

➤ SBERl - Sberbank of Russia PJSC

Citadel Securities (Europe) Limited (Program Three)

➤ SBMOa - SBM Offshore NV

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Virtu Financial Ireland Ltd (Program Two)

➤ SBOo - Selvaag Bolig ASA

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HRTEU Limited (Program Two)

➤ SBOv - Schoeller-Bleckmann Oilfield Equipment AG

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Virtu Financial Ireland Ltd (Program Two)

➤ SBRTm - WisdomTree Brent Crude Oil 1x Daily Short

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Optiver V.O.F. (Program Three)

➤ SBRYl - J Sainsbury PLC

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BNP Paribas Arbitrage SNC (Program One and Three)

Citadel Securities (Europe) Limited (Program Three)

Jane Street Financial Limited (Program Three)

Qube Master Fund Limited (Program One)

Societe Generale London Branch (Program Three)

Virtu Financial Ireland Ltd (Program Two)

➤ SCABs - Svenska Cellulosa AB SCA

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Virtu Financial Ireland Ltd (Program Two)

➤ SCHAo - Schibsted ASA

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HRTEU Limited (Program Two)

Virtu Financial Ireland Ltd (Program Two)

➤ SCHBo - Schibsted ASA

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HRTEU Limited (Program Two)

➤ SCHNz - Schindler Holding AG

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BNP Paribas Arbitrage SNC (Program One and Three)

Citadel Securities (Europe) Limited (Program Three)

Jane Street Financial Limited (Program Three)

Societe Generale London Branch (Program Three)

➤ SCHOc - Schouw & Co A/S

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HRTEU Limited (Program Two)

## ➤ SCHPz - Schindler Holding AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ SCMNz - Swisscom AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SCOPm - WisdomTree Copper 1x Daily Short

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Optiver V.O.F. (Program Three)

## ➤ SCRp - SCOR SE

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Virtu Financial Ireland Ltd (Program Two)

## ➤ SCTL - Softcat PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ SCYRe - Sacyr SA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SDFd - K+S AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ SDGp - Synergie SE

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HRTEU Limited (Program Two)

## ➤ SDHMx - iShares USD Short Duration High Yield Corp Bond UCITS ETF MXN Hedged (

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FlowTraders B.V. (Program Three)

## ➤ SDHYL - iShares USD Short Duration High Yield Corp Bond UCITS ETF

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Hudson River Trading Europe Limited (Program Three)

## ➤ SDMXx - iShares USD Short Duration Corp Bond UCITS ETF

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FlowTraders B.V. (Program Three)

## ➤ SDRYI - Superdry PLC

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SDRI - Schroders PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SDWDx - iShares MSCI World ESG Screened UCITS ETF USD (Dist)

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FlowTraders B.V. (Program Three)

## ➤ SEBAs - Skandinaviska Enskilda Banken AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SECUBs - Securitas AB

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Virtu Financial Ireland Ltd (Program Two)

## ➤ SEDMx - iShares MSCI EM IMI ESG Screened UCITS ETF USD (Dist)

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FlowTraders B.V. (Program Three)

## ➤ SEMLm - iShares JP Morgan EM Local Government Bond UCITS ETF

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HRTEU Limited (Program Two)

## ➤ SEMu - Semapa-Sociedade de Investimento e Gestao

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Virtu Financial Ireland Ltd (Program Two)

## ➤ SEMv - Semperit AG Holding

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Virtu Financial Ireland Ltd (Program Two)

## ➤ SENSz - Sensirion Holding AG

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Jane Street Financial Limited (Program Three)

➤ [SEQIl - Sequoia Economic Infrastructure Income Fund Ltd](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [SESGp - SES SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [SESLp - SES-imagotag SA](#)

HRTEU Limited (Program Two)

➤ [SESm - Sesa SpA](#)

HRTEU Limited (Program Two)

➤ [SEVp - Suez SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [SFERm - Salvatore Ferragamo SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [SFLm - Safilo Group SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [SFQd - SAF-Holland SE](#)

HRTEU Limited (Program Two)

➤ [SFSNz - SFS Group AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [SFZNz - Siegfried Holding AG](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [SGCl - Stagecoach Group PLC](#)

Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)



#### ➤ SGEI - Sage Group PLC/The

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BNP Paribas Arbitrage SNC (Program One and Three)  
 Citadel Securities (Europe) Limited (Program Three)  
 DRW Global Markets Limited (Program Three)  
 Jane Street Financial Limited (Program Three)  
 Qube Master Fund Limited (Program One)  
 Societe Generale London Branch (Program Three)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ SGKNz - St Galler Kantonalbank AG

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Citadel Securities (Europe) Limited (Program Three)  
 Jane Street Financial Limited (Program Three)

#### ➤ SGLDz - Invesco Physical Gold ETC

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Optiver V.O.F. (Program Three)

#### ➤ SGLPI - Invesco Physical Gold ETC

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Optiver V.O.F. (Program Three)

#### ➤ SGLd - SGL Carbon SE

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Virtu Financial Ireland Ltd (Program Two)

#### ➤ SGOp - Cie de Saint-Gobain

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UG Europe AG (Program Two and Three)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ SGREe - Siemens Gamesa Renewable Energy SA

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HRTEU Limited (Program Two)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ SGROl - Segro PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
 Citadel Securities (Europe) Limited (Program Three)  
 Qube Master Fund Limited (Program One)  
 Societe Generale London Branch (Program Three)  
 Virtu Financial Ireland Ltd (Program Two)

#### ➤ SGSNz - SGS SA

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BNP Paribas Arbitrage SNC (Program One and Three)  
 Citadel Securities (Europe) Limited (Program Three)  
 Jane Street Financial Limited (Program Three)  
 Qube Master Fund Limited (Program One)  
 Societe Generale London Branch (Program Three)  
 Tower Research Capital Europe Limited (Program Two)  
 Virtu Financial Ireland Ltd (Program Two)

➤ SGM - SAES Getters SpA

HRTEU Limited (Program Two)

➤ SHBAs - Svenska Handelsbanken AB

Virtu Financial Ireland Ltd (Program Two)

➤ SHBl - Shaftesbury PLC

Virtu Financial Ireland Ltd (Program Two)

➤ SHCp - Lyxor CAC 40 Daily -1x Inverse UCITS ETF

HRTEU Limited (Program Two)

➤ SHIl - SIG PLC

Virtu Financial Ireland Ltd (Program Two)

➤ SHLd - Siemens Healthineers AG

HRTEU Limited (Program Two)

➤ SIEd - Siemens AG

Virtu Financial Ireland Ltd (Program Two)

➤ SIGNz - SIG Combibloc Group AG

BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)

➤ SIGl - Signature Aviation PLC

BNP Paribas Arbitrage SNC (Program One and Three)

➤ SIKAz - Sika AG

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)

➤ SIMc - SimCorp A/S

HRTEU Limited (Program Two)

➤ SIPb - Sipef NV

HRTEU Limited (Program Two)

➤ SIX3d - Sixt SE

HRTEU Limited (Program Two)

➤ SJPA - iShares Core MSCI Japan IMI UCITS ETF

HRTEU Limited (Program Two)

➤ SK3i - Smurfit Kappa Group PLC

Virtu Financial Ireland Ltd (Program Two)

➤ SKABs - Skanska AB

Virtu Financial Ireland Ltd (Program Two)

➤ SKFBs - SKF AB

Virtu Financial Ireland Ltd (Program Two)

➤ SKGI - Smurfit Kappa Group PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)

➤ SKp - SEB SA

Virtu Financial Ireland Ltd (Program Two)

➤ SLAI - Standard Life Aberdeen PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ SLHNz - Swiss Life Holding AG

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)

➤ SLIGRa - Sligro Food Group NV

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SMCPp - SMCP SA

HRTEU Limited (Program Two)

## ➤ SMDSI - DS Smith PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SMEAm - iShares Core MSCI Europe UCITS ETF EUR Acc

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

## ➤ SMHNd - SUESS MicroTec SE

HRTEU Limited (Program Two)

## ➤ SMICZz - UBS ETF CH-SMI

Optiver V.O.F. (Program Three)

## ➤ SMINl - Smiths Group PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SMPl - St Modwen Properties PLC

Jane Street Financial Limited (Program Three)

## ➤ SMSNI - Samsung Electronics Co Ltd

Citadel Securities (Europe) Limited (Program Three)

## ➤ SMTI - Scottish Mortgage Investment Trust PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SMWHL - WH Smith PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SNBNz - Schweizerische Nationalbank

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Citadel Securities (Europe) Limited (Program Three)

## ➤ SNGAL - WisdomTree Natural Gas 1x Daily Short

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Optiver V.O.F. (Program Three)

## ➤ SNGAm - WisdomTree Natural Gas 1x Daily Short

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Optiver V.O.F. (Program Three)

## ➤ SNNI - Sanne Group PLC

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Hudson River Trading Europe Limited (Program Three)

## ➤ SNRI - Senior PLC

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Jane Street Financial Limited (Program Three)

## ➤ SNI - Smith & Nephew PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SOBIs - Swedish Orphan Biovitrum AB

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SOFb - Sofina SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ SOIp - SOITEC

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HRTEU Limited (Program Two)

➤ SOLBb - Solvay SA

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Virtu Financial Ireland Ltd (Program Two)

➤ SOLGI - SolGold PLC

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Hudson River Trading Europe Limited (Program Three)

➤ SOLm - SOL SpA

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HRTEU Limited (Program Two)

➤ SONu - Sonae SGPS SA

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Virtu Financial Ireland Ltd (Program Two)

➤ SOONz - Sonova Holding AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ SOWd - Software AG

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Virtu Financial Ireland Ltd (Program Two)

➤ SOM - Sogefi SpA

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HRTEU Limited (Program Two)

➤ SOP - Somfy SA

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HRTEU Limited (Program Two)

➤ SPMm - Saipem SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ SPNOc - Spar Nord Bank A/S

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HRTEU Limited (Program Two)

➤ SPSNz - Swiss Prime Site AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ SPTI - Spirent Communications PLC

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SPXHm - Lyxor S&P 500 UCITS ETF

HRTEU Limited (Program Two)

## ➤ SPXI - Spirax-Sarco Engineering PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SPXm - Lyxor S&P 500 UCITS ETF

HRTEU Limited (Program Two)

## ➤ SPY5m - SPDR S&P 500 UCITS ETF

HRTEU Limited (Program Two)

## ➤ SQNz - Swissquote Group Holding SA

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ SRAILz - Stadler Rail AG

BNP Paribas Arbitrage SNC (Program One and Three)

## ➤ SRENz - Swiss Re AG

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SREL - Sirius Real Estate Ltd

Jane Street Financial Limited (Program Three)

## ➤ SRGm - Snam SpA

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SRPI - Serco Group PLC

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SRPp - SRP Groupe SA

HRTEU Limited (Program Two)

## ➤ SRSm - Saras SpA

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SSABAs - SSAB AB

Virtu Financial Ireland Ltd (Program Two)

## ➤ SSABBs - SSAB AB

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SSEI - SSE PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ SSLm - Societa Sportiva Lazio SpA

HRTEU Limited (Program Two)

## ➤ SSPGI - SSP Group Plc

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ STANI - Standard Chartered PLC

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)



➤ [STBo - Storebrand ASA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [STERVh - Stora Enso Oyj](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [STERs - Stora Enso Oyj](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [STHEm - PIMCO US Short-Term High Yield Corporate Bond Index UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [STJl - St James's Place PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [STLNz - Swiss Steel Holding AG](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [STMNz - Straumann Holding AG](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ [STMd - Stabilus SA](#)

HRTEU Limited (Program Two)

➤ [STMm - STMMicroelectronics NV](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [STMp - STMMicroelectronics NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ STRv - Strabag SE

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Virtu Financial Ireland Ltd (Program Two)

➤ STWp - SPDR MSCI Europe Health Care UCITS ETF

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HRTEU Limited (Program Two)

➤ STZp - SPDR MSCI Europe Financials UCITS ETF

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HRTEU Limited (Program Two)

➤ SUBCo - Subsea 7 SA

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Virtu Financial Ireland Ltd (Program Two)

➤ SUK2I - L&G FTSE 100 Super Short Strategy Daily 2x UCITS ETF

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Optiver V.O.F. (Program Two)

➤ SUNz - Sulzer AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ SUSEMx - iShares EUR Corp Bond 0-3yr ESG UCITS ETF MXN Hedged (Acc)

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FlowTraders B.V. (Program Three)

➤ SUp - Schneider Electric SE

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Virtu Financial Ireland Ltd (Program Two)

➤ SVSl - Savills PLC

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Jane Street Financial Limited (Program Three)

➤ SVTl - Severn Trent PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ SWDam - iShares Core MSCI World UCITS ETF

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HRTEU Limited (Program Two)

➤ **SWECBs - Sweco AB**

HRTEU Limited (Program Two)

➤ **SWEDAs - Swedbank AB**

Virtu Financial Ireland Ltd (Program Two)

➤ **SWMAs - Swedish Match AB**

Virtu Financial Ireland Ltd (Program Two)

➤ **SWONz - Softwareone Holding AG**

BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)

➤ **SWTQz - Schweiter Technologies AG**

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ **SWp - Sodexo SA**

Virtu Financial Ireland Ltd (Program Two)

➤ **SX7EEz - iShares EURO STOXX Banks 30-15 UCITS ETF DE**

Optiver V.O.F. (Program Two)

➤ **SXSl - Spectris PLC**

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ **SY1d - Symrise AG**

Virtu Financial Ireland Ltd (Program Two)

➤ **SYDBc - Sydbank AS**

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ **SYNTI - Synthomer PLC**

Jane Street Financial Limited (Program Three)

➤ SZGd - Salzgitter AG

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Virtu Financial Ireland Ltd (Program Two)

➤ SZUd - Suedzucker AG

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Virtu Financial Ireland Ltd (Program Two)

➤ TASm - Tas Tecnologia Avanzata dei Sistemi SpA

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HRTEU Limited (Program Two)

➤ TATEl - Tate & Lyle PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ TC1d - Tele Columbus AG

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HRTEU Limited (Program Two)

➤ TCAPl - TP ICAP Group PLC

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DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ TCHp - Technicolor SA

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Virtu Financial Ireland Ltd (Program Two)

➤ TCSl - TCS Group Holding PLC

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Citadel Securities (Europe) Limited (Program Three)

➤ TDTa - VanEck Vectors AEX UCITS ETF

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ TECNz - Tecan Group AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ TEDl - Ted Baker PLC

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Citadel Securities (Europe) Limited (Program Three)

➤ TEFe - Telefonica SA

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UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ TEGd - TAG Immobilien AG

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Virtu Financial Ireland Ltd (Program Two)

➤ TEL2Bs - Tele2 AB

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Virtu Financial Ireland Ltd (Program Two)

➤ TELIAh - Telia Co AB

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Virtu Financial Ireland Ltd (Program Two)

➤ TELIAs - Telia Co AB

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Virtu Financial Ireland Ltd (Program Two)

➤ TELo - Telenor ASA

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Virtu Financial Ireland Ltd (Program Two)

➤ TEMNz - Temenos AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ TEMl - Templeton Emerging Markets Investment Trust PLC

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Citadel Securities (Europe) Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ TENm - Tenaris SA

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HRTEU Limited (Program Two)  
UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ TEPl - Telecom Plus PLC

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Jane Street Financial Limited (Program Three)

➤ [TFGa - Tetragon Financial Group Ltd](#)

HRTEU Limited (Program Two)

➤ [TFIm - TREVI - Finanziaria Industriale SpA](#)

HRTEU Limited (Program Two)

➤ [TFIp - Television Francaise 1](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [TGSo - TGS NOPEC Geophysical Co ASA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [TGYMm - Technogym SpA](#)

HRTEU Limited (Program Two)

➤ [THGI - THG PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)

➤ [THRGI - Blackrock Throgmorton Trust PLC](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [THULEs - Thule Group AB](#)

HRTEU Limited (Program Two)

➤ [TIK1Vh - Tikkurila Oyj](#)

HRTEU Limited (Program Two)

➤ [TIMAd - Zeal Network SE](#)

HRTEU Limited (Program Two)

➤ [TIPm - Tamburi Investment Partners SpA](#)

HRTEU Limited (Program Two)

➤ [TISm - Tiscali SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ TITRm - Telecom Italia SpA/Milano

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HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)  
UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ TITm - Telecom Italia SpA/Milano

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HRTEU Limited (Program Two)  
UG Europe AG (Program Two and Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ TKAd - thyssenkrupp AG

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ TKAv - Telekom Austria AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ TL5e - Mediaset Espana Comunicacion SA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ TLGOe - Talgo SA

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HRTEU Limited (Program Two)

## ➤ TLWl - Tullow Oil PLC

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Virtu Financial Ireland Ltd (Program Two)

## ➤ TLXd - Talanx AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ TNETb - Telenet Group Holding NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ TNGp - Transgene SA

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HRTEU Limited (Program Two)

## ➤ TOBIIs - Tobii AB

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HRTEU Limited (Program Two)

➤ [TODm - Tod's SpA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [TOKMAh - Tokmanni Group Corp](#)

HRTEU Limited (Program Two)

➤ [TOM2a - TomTom NV](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [TOMo - TOMRA Systems ASA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [TOPc - Topdanmark AS](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [TPKl - Travis Perkins PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [TPXEp - Amundi Japan Topix UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [TPXHm - Amundi Japan Topix UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [TRELBS - Trelleborg AB](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [TREe - Tecnicas Reunidas SA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [TRIGl - Renewables Infrastructure Group Ltd/The](#)

Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)



## ➤ TRMDAc - TORM PLC

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HRTEU Limited (Program Two)

## ➤ TRNl - Trainline PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)

## ➤ TRNm - Terna Rete Elettrica Nazionale SpA

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HRTEU Limited (Program Two)  
UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ TRYGc - Tryg A/S

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Virtu Financial Ireland Ltd (Program Two)

## ➤ TRYl - TR Property Investment Trust PLC - Ordinary Shares

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Hudson River Trading Europe Limited (Program Three)

## ➤ TSCOl - Tesco PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ TTKd - Takkt AG

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HRTEU Limited (Program Two)

## ➤ TTR1d - Technotrans SE

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HRTEU Limited (Program Two)

## ➤ TUBb - Financiere de Tubize SA

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HRTEU Limited (Program Two)

## ➤ TUBe - Tubacex SA

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HRTEU Limited (Program Two)

## ➤ TUI1d - TUI AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ TUII - TUI AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ TWEKAa - TKH Group NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ TWI - Taylor Wimpey PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ TXTm - TXT e-solutions SpA

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HRTEU Limited (Program Two)

## ➤ TYMNI - Tyman PLC

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Hudson River Trading Europe Limited (Program Three)

## ➤ UBIP - Ubisoft Entertainment SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ UBSGz - UBS Group AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)

## ➤ UBXNz - u-blox Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ UCBb - UCB SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ UCGm - UniCredit SpA

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HRTEU Limited (Program Two)  
UG Europe AG (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ UDGL - UDG Healthcare PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

## ➤ UHRNz - Swatch Group AG/The

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ UHRz - Swatch Group AG/The

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ UIM1a - UBS Lux Fund Solutions - EURO STOXX 50 UCITS ETF

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Optiver V.O.F. (Program Two)

## ➤ UKCML - UK Commercial Property REIT Ltd

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Hudson River Trading Europe Limited (Program Three)

## ➤ UKGBBz - UBS Lux Fund Solutions - MSCI United Kingdom UCITS ETF

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Optiver V.O.F. (Program Three)

## ➤ ULEI - Ultra Electronics Holdings PLC

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ ULVRI - Unilever PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ UMlb - Umicore SA

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Virtu Financial Ireland Ltd (Program Two)

## ➤ UNAA - Unilever PLC

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Virtu Financial Ireland Ltd (Program Two)

## ➤ UNIRm - Unieuro SpA

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HRTEU Limited (Program Two)

## ➤ UNle - Unicaja Banco SA

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HRTEU Limited (Program Two)

## ➤ UNIm - Unipol Gruppo SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ UPMh - UPM-Kymmene Oyj

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Virtu Financial Ireland Ltd (Program Two)

## ➤ UPONOh - Uponor Oyj

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ USTp - Lyxor Nasdaq-100 UCITS ETF

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HRTEU Limited (Program Two)

## ➤ USm - UnipolSai Assicurazioni SpA

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ UTDId - United Internet AG

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Virtu Financial Ireland Ltd (Program Two)

## ➤ UTGL - UNITE Group PLC/The

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)

## ➤ UUL - United Utilities Group PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

## ➤ VACNz - VAT Group AG

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

## ➤ VALNz - Valora Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ VASTNa - Vastned Retail NV

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Virtu Financial Ireland Ltd (Program Two)

## ➤ VATNz - Valiant Holding AG

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

## ➤ VBKd - VERBIO Vereinigte BioEnergie AG

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HRTEU Limited (Program Two)

## ➤ VCTI - Victrex PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ VCTp - Vicat SA

Virtu Financial Ireland Ltd (Program Two)

➤ VECl - Vectura Group PLC

Jane Street Financial Limited (Program Three)

➤ VEILL - Vietnam Enterprise Investments Ltd

Hudson River Trading Europe Limited (Program Three)

➤ VElo - Veidekke ASA

HRTEU Limited (Program Two)

➤ VERXa - Vanguard FTSE Developed Europe ex UK UCITS ETF

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ VERv - Verbund AG

Virtu Financial Ireland Ltd (Program Two)

➤ VETOp - Vetoquinol SA

HRTEU Limited (Program Two)

➤ VEURa - Vanguard FTSE Developed Europe UCITS ETF

HRTEU Limited (Program Two)

➤ VIDe - Vidrala SA

HRTEU Limited (Program Two)

➤ VIEp - Veolia Environnement SA

Virtu Financial Ireland Ltd (Program Two)

➤ VIFNz - Vifor Pharma AG

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Societe Generale London Branch (Program Three)

➤ VIGv - Vienna Insurance Group AG Wiener Versicherung Gruppe

Virtu Financial Ireland Ltd (Program Two)

➤ [VIRPp - Virbac SA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [VISE - Viscofan SA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [VITRs - Vitrolife AB](#)

HRTEU Limited (Program Two)

➤ [VIVp - Vivendi SE](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [VKp - Vallourec SA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [VLAp - Valneva SE](#)

HRTEU Limited (Program Two)

➤ [VMSTx - Vanguard U.S. Treasury 0-1 Year Bond UCITS ETF](#)

Goldenberg Hehmeyer LLP (Program Three)

➤ [VMUKI - Virgin Money UK PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Jane Street Financial Limited (Program Three)

➤ [VNEs - Veoneer Inc](#)

HRTEU Limited (Program Two)

➤ [VODI - Vodafone Group PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Tower Research Capital Europe Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [VOEv - voestalpine AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [VOLVAs - Volvo AB](#)

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [VOLVBs - Volvo AB](#)

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Virtu Financial Ireland Ltd (Program Two)

➤ [VONNz - Vontobel Holding AG](#)

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Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [VOSd - Vossloh AG](#)

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HRTEU Limited (Program Two)

➤ [VOW3d - Volkswagen AG](#)

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Virtu Financial Ireland Ltd (Program Two)

➤ [VOWd - Volkswagen AG](#)

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HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [VPKa - Koninklijke Vopak NV](#)

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Virtu Financial Ireland Ltd (Program Two)

➤ [VSVSl - Vesuvius PLC](#)

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Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [VTYl - Vistry Group PLC](#)

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [VUKEL - Vanguard FTSE 100 UCITS ETF](#)

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Optiver V.O.F. (Program Three)

➤ [VUSAl - Vanguard S&P 500 UCITS ETF](#)

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Hudson River Trading Europe Limited (Program Three)  
Optiver V.O.F. (Program Three)



➤ [VUSDL - Vanguard S&P 500 UCITS ETF](#)

Optiver V.O.F. (Program Three)

➤ [VWSc - Vestas Wind Systems A/S](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [VZLAd - WisdomTree Physical Platinum](#)

Optiver V.O.F. (Program Three)

➤ [VZLBd - WisdomTree Physical Palladium](#)

Optiver V.O.F. (Program Three)

➤ [VZNz - VZ Holding AG](#)

Citadel Securities (Europe) Limited (Program Three)

➤ [WACd - Wacker Neuson SE](#)

HRTEU Limited (Program Two)

➤ [WALLBs - Wallenstam AB](#)

HRTEU Limited (Program Two)

➤ [WAWIo - Wallenius Wilhelmsen ASA](#)

HRTEU Limited (Program Two)

➤ [WBDm - Webuild SpA](#)

HRTEU Limited (Program Two)

➤ [WCHd - Wacker Chemie AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [WEIRl - Weir Group PLC/The](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Virtu Financial Ireland Ltd (Program Two)

#### ➤ WGL - John Wood Group PLC

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Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

#### ➤ WHAa - Wereldhave NV

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Virtu Financial Ireland Ltd (Program Two)

#### ➤ WIEv - Wienerberger AG

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Virtu Financial Ireland Ltd (Program Two)

#### ➤ WIHLs - Wihlborgs Fastigheter AB

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HRTEU Limited (Program Two)

#### ➤ WIZZl - Wizz Air Holdings Plc

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)

#### ➤ WKLa - Wolters Kluwer NV

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Virtu Financial Ireland Ltd (Program Two)

#### ➤ WLDp - Lyxor MSCI World UCITS ETF

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HRTEU Limited (Program Two)

#### ➤ WOSGL - Watches of Switzerland Group PLC

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Jane Street Financial Limited (Program Three)

#### ➤ WPPI - WPP PLC

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BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

#### ➤ WRT1Vh - Wartsila OYJ Abp

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Virtu Financial Ireland Ltd (Program Two)

➤ [WSUd - Washtec AG](#)

HRTEU Limited (Program Two)

➤ [WTANL - Witan Investment Trust PLC](#)

Hudson River Trading Europe Limited (Program Three)

➤ [WTBL - Whitbread PLC](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
DRW Global Markets Limited (Program Three)  
Jane Street Financial Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [WUWd - Wuestenrot & Wuerttembergische AG](#)

HRTEU Limited (Program Two)

➤ [WWHL - Worldwide Healthcare Trust PLC/Fund](#)

Citadel Securities (Europe) Limited (Program Three)  
Hudson River Trading Europe Limited (Program Three)

➤ [X1Gp - Amundi Govt Bond Lowest Rated Euromts Investment Grade UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [XACTOs - XACT OMXS30](#)

HRTEU Limited (Program Two)

➤ [XAD3m - Xtrackers Physical Platinum EUR Hedged ETC](#)

Optiver V.O.F. (Program Three)

➤ [XBRMIm - Lyxor FTSE MIB Daily -2x Inverse Xbear UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [XCTLm - Xtrackers Brent Crude Oil Optimum Yield ETC EUR](#)

Optiver V.O.F. (Program Three)

➤ [XD3Ex - Xtrackers Euro Stoxx Quality Dividend UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [XD5Em - Xtrackers MSCI EMU UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [XDAXm - Xtrackers DAX UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [XDAXx - Xtrackers DAX UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [XDUKd - Xtrackers FTSE 100 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [XDWDx - Xtrackers MSCI World UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [XESCI - Xtrackers Euro Stoxx 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [XESCM - Xtrackers Euro Stoxx 50 UCITS ETF](#)

HRTEU Limited (Program Two)  
Optiver V.O.F. (Program Two)

➤ [XESCx - Xtrackers Euro Stoxx 50 UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [XESCz - Xtrackers Euro Stoxx 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [XESXI - Xtrackers Euro Stoxx 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [XESXm - Xtrackers Euro Stoxx 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [XESXz - Xtrackers Euro Stoxx 50 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ XETCm - Xtrackers Brent Crude Oil Optimum Yield EUR Hedged ETC

Optiver V.O.F. (Program Three)

➤ XFABp - X-Fab Silicon Foundries SE

HRTEU Limited (Program Two)

➤ XGSDx - Xtrackers Stoxx Global Select Dividend 100 Swap UCITS ETF

FlowTraders B.V. (Program Three)

➤ XILp - Xilam Animation SA

HRTEU Limited (Program Two)

➤ XIORb - Xior Student Housing NV

HRTEU Limited (Program Two)

➤ XLDXm - Xtrackers LevDAX Daily Swap UCITS ETF

HRTEU Limited (Program Two)

➤ XLKSI - Invesco Technology S&P US Select Sector UCITS ETF

Hudson River Trading Europe Limited (Program Three)

➤ XMEMx - Xtrackers MSCI Emerging Markets Swap UCITS ETF

FlowTraders B.V. (Program Three)

➤ XMEUm - Xtrackers MSCI Europe UCITS ETF

Optiver V.O.F. (Program Two)

➤ XMEUx - Xtrackers MSCI Europe UCITS ETF

FlowTraders B.V. (Program Three)

➤ XMEUz - Xtrackers MSCI Europe UCITS ETF

Optiver V.O.F. (Program Two)

➤ XMJPx - Xtrackers MSCI Japan UCITS ETF

FlowTraders B.V. (Program Three)

➤ [XMK9d - Xtrackers MSCI Japan UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [XMLDI - Xtrackers MSCI EM Latin America Swap UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [XMWOm - Xtrackers MSCI World Swap UCITS ETF](#)

HRTEU Limited (Program Two)

➤ [XPLAz - Xtrackers Physical Platinum ETC](#)

Optiver V.O.F. (Program Three)

➤ [XRS2x - Xtrackers Russell 2000 UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [XSPUI - Xtrackers S&P 500 Swap UCITS ETF](#)

Hudson River Trading Europe Limited (Program Three)

➤ [XSPXx - Xtrackers S&P 500 Swap UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [XSX6l - Xtrackers Stoxx Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [XSX6m - Xtrackers Stoxx Europe 600 UCITS ETF](#)

Optiver V.O.F. (Program Two)

➤ [XXLo - XXL ASA](#)

HRTEU Limited (Program Two)

➤ [XXSCx - Xtrackers MSCI Europe Small Cap UCITS ETF](#)

FlowTraders B.V. (Program Three)

➤ [YARo - Yara International ASA](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [YITh - YIT Oyj](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [YPSNz - Ypsomed Holding AG](#)

Citadel Securities (Europe) Limited (Program Three)  
Jane Street Financial Limited (Program Three)

➤ [ZAGv - Zumtobel Group AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ZEALc - Zealand Pharma A/S](#)

HRTEU Limited (Program Two)

➤ [ZIL2d - ElringKlinger AG](#)

Virtu Financial Ireland Ltd (Program Two)

➤ [ZOTe - Zardoya Otis SA](#)

HRTEU Limited (Program Two)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ZURNz - Zurich Insurance Group AG](#)

BNP Paribas Arbitrage SNC (Program One and Three)  
Citadel Securities (Europe) Limited (Program Three)  
Qube Master Fund Limited (Program One)  
Societe Generale London Branch (Program Three)  
Virtu Financial Ireland Ltd (Program Two)

➤ [ZVm - Zignago Vetro SpA](#)

HRTEU Limited (Program Two)