

Depositary Receipts

2021 in review



The year in numbers

















Foreword:



2021 saw the world shifting to new patterns of work as the global pandemic continued and as a business Deutsche Bank responded strongly to the challenges. The economy was characterised by supply chain bottlenecks, inflationary pressures, changing Covid measures and geopolitical factors which all contributed to driving movements in global equity markets.

The Depositary Receipt (DR) market performed robustly with record breaking trading figures - DR volume traded up 20% to 299bn and DR value traded rising 36% to US\$8,003 bn.

Capital raising hit 35.4bn, down on last year but still the 2nd highest in the past 7 years. China continued to be the dominant region accounting for almost half of global DR capital raising.

Buoyant M&A volumes fed into the DR market and Deutsche Bank demonstrated its expertise in executing complex corporate actions using ADRs by handing the two largest transactions -AstraZeneca and Just Eat Takeaway.com.



Daniel Clark Global Head of **Depositary Receipts** Deutsche Bank

Deutsche Bank's key highlights are as follows:

- Number 1 depositary bank for ADR IPOs and capital raising transactions (by value raised and ADRs issued, excluding follow-on offerings
- Mandated as depositary bank for Didi Global Inc from China, the largest DR capital raising transaction globally in 2021 and the largest since Alibaba in 2014, raising \$4.4bn
- Largest ADR M&A transactions \$26bn issued in the form of ADRs by AstraZeneca for the acquisition of NYSE-listed Alexion and \$7.3bn issued by Just Eat Takeaway.com to acquire NYSE-listed Grubhub
- NIO Inc ranked number 1 globally for DR volume traded globally with 17bn for the 3rd consecutive year
- Reached over 100 presentations conducted on the virtual investor conference ("dbVIC") the only dedicated DR conference to be held virtually continuously for nine years

Our clients and staff continue to be our main area of focus as the world recovers from the impact of the pandemic. The Deutsche Bank DR team prides itself on consistently providing high levels of service and being your trusted capital markets partner.



Sponsored depositary receipt programs

 $1,403_{\,\text{sponsored DR programs globally}}$



There were 72 new sponsored DR programs launched in 2021



Mid cap issuers and small cap issuers constitute the largest proportion of sponsored programs, with 29% and 27% respectively



From a sector perspective, Industrials and Financials continue to represent the greatest proportion of sponsored programs, whilst Telecoms and Real Estate have the fewest programs

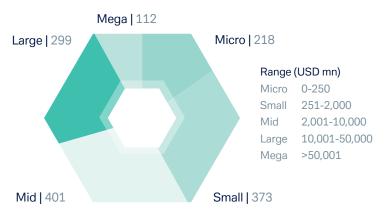


Regionally, the largest number of programs originate from Asia, with China and Hong Kong representing 16% of all programs globally, followed by India with 8%

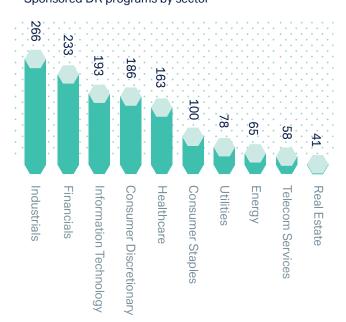
Sponsored DR programs by program type

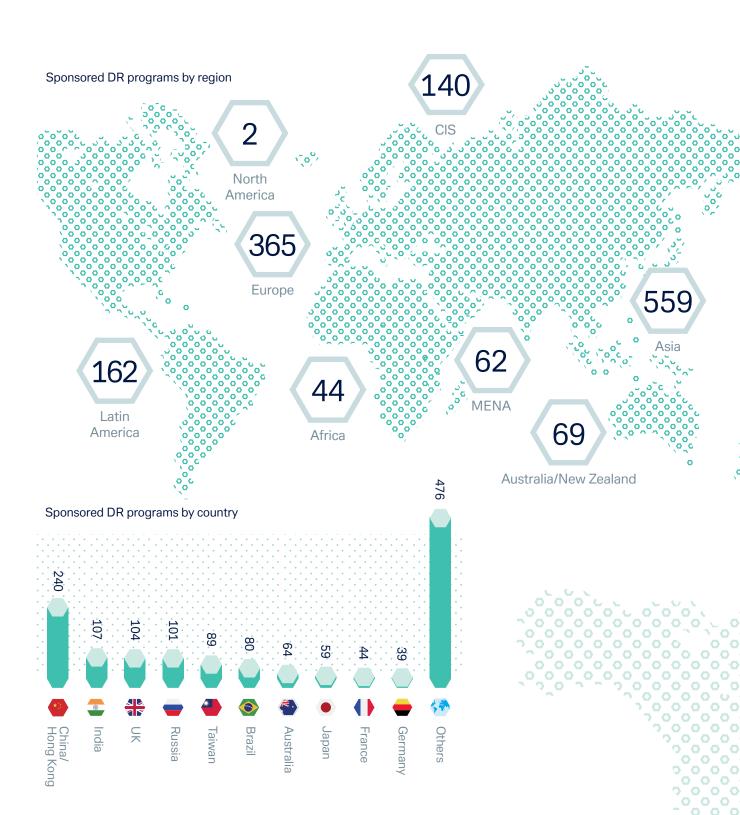


Sponsored DR programs by market capitalisation



Sponsored DR programs by sector





Unsponsored depositary receipt programs

1,475 unsponsored DR programs globally



The number of unsponsored programs globally grew slightly year-on-year and outweighed the number of sponsored programs



Mid cap issuers represent 45% of total unsposored programs outstanding



By sector, Industrials and Consumer Discretionary remain the most numerous, representing 29% and 18% respectively



Regionally, Asia and Europe represent over 90% of unsponsored programs, with Japan accounting for 18% and China and Hong Kong also at 18%

Unsponsored DR programs by sector



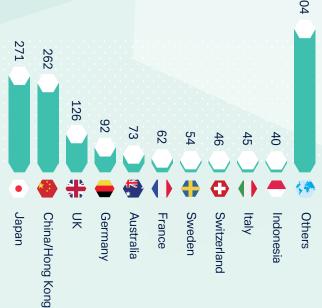
Unsponsored DR programs by market capitalsation



Unsponsored DR programs by country

Unsponsored DR programs by region





M&A using ADRs

Depositary receipts has been a common tool to use in M&A situations and Deutsche Bank has a deep expertise in handling these types of transactions. The largest and most well publicised DR deals historically have been where non-US companies have acquired US companies.

Some of the more recognised examples over the past couple of decades include Micro Focus/HP Enterprise Company's software business, AMEC/Foster Wheeler, Grifols/Talecris, Vodafone/Airtouch, BP/ Amoco, Alcatel/Lucent, ARM Holdings/Artisan, Deutsche Telekom/Voicestream, BAT/Reynolds America, Stora Enso/Consolidated Papers and HSBC/Household Finance.

2021 featured two major transactions both involving Deutsche Bank.





Source: Reported deal values (Bloomberg)

"DB played a key role in the execution of AstraZeneca's \$39bn acquisition of Alexion Pharmaceuticals via a combination of newly issued ADRs plus cash (Ordinary Share election also offered). The DR team formed an integral part of the large working party involved in this landmark transaction, handled the various project-specific complexities with professionalism and the AstraZeneca team was kept well-informed about the impact of the event on our ADR program from the date it was first announced, through to the closing and thereafter, as well as continued with the high quality service regarding our baseline ADR activities. "

Josie Afolabi Director of Investor Relations, AstraZeneca

Depositary receipt capital raising

USD 35.4bn DR capital raised



DR capital raised totalled USD 35.4bn in 2021, a decrease of USD 13.6bn in comparison to 2020, which was a record year



Capital raised via ADRs continued to surpass GDRs by a significant margin



From a sector perspective, Information Technology issuers raised the most capital with 41% of the total, however by number of deals the Healthcare sector was most active with 50 capital raising transactions



Regionally, DR issuers in Asia raised the greatest amount of capital with 64% of the total



Programs from China raised over USD 17bn in 2021, almost half of the total DR capital raised

DR capital raising by program type (USD bn)



DR capital raising by sector (% and number of transactions)



DR capital raising by region

	2015	2016	2017	2018	2019	2020	2021
CIS	4%	5%	16%	6%	1%	6%	9%
Latin America	6%	4%	25%	3%	6%	1%	0%
Asia	39%	76%	46%	75%	71%	82%	64%
Europe	15%	14%	13%	16%	20%	8%	22%
MENA	36%	1%	<1%	<1%	2%	3%	5%

DR capital raising by country (value of capital raised and number of transactions)



Transactions

Issue	Country	Region	Capital raised (USD mn)	Industry	Exchange
DIDI GLOBAL INC	China	Asia ex ANZ	4,435,200,000	Software	NYSE
SEA LIMITED	Singapore	Asia ex ANZ	4,022,700,000	Software	NYSE
FIX PRICE	Russia	CIS	1,768,910,000	Multiline Retail	LSE
OATLY GROUP AB	Sweden	Western Europe	1,649,550,800	Food Products	NASDAQ
RLX TECHNOLOGY INC	China	Asia ex ANZ	1,607,700,000	Tobacco	NYSE
FULL TRUCK ALLIANCE CO LTD	China	Asia ex ANZ	1,567,500,000	Trans Infrastructure	NYSE
FUTU HOLDINGS	China	Asia ex ANZ	1,420,250,000	Diversified Fin Services	NASDAQ
KANZHUN LIMITED	China	Asia ex ANZ	1,048,800,000	Software	NASDAQ
TUYA INC	China	Asia ex ANZ	946,606,059	Software	NYSE
ZAI LAB LIMITED	China	Asia ex ANZ	823,860,000	Biotechnology	NASDAQ
D-MARKET ELECTRONIC S&T	Turkey	Eur ex W. Eur	783,012,000	Retail Distributors	NASDAQ
ARGEN-X	Netherlands	Western Europe	664,576,000	Biotechnology	NASDAQ
ZHIHU INC	China	Asia ex ANZ	522,500,000	Media	NYSE
NANO DIMENSION LTD	Israel	Middle East	500,480,000	Tech Hardware,	NASDAQ
EVOTEC	Germany	Western Europe	500,250,000	Life Sciences	NASDAQ
UNITED MEDICAL GROUP CY PLC	Russia	CIS	500,000,000	Health Cre Prov & Serv	NA
MYT NETHERLANDS PARENT BV	Germany	Western Europe	467,847,042	Textiles & Luxury Gds	NYSE
SOFTLINE HOLDING PLC	Russia	CIS	460,000,005	Internet Soft& Servs	LSE
ASCENDIS PHARMA A/S	Denmark	Western Europe	460,000,000	Biotechnology	NASDAQ
JUMIA TECHNOLOGIES AG	UAE	Middle East	448,865,087	Retail Distributors	NYSE
OLINK HOLDING AB	Sweden	Western Europe	405,882,320	Pharmaceuticals	NASDAQ
TDCX INC	Singapore	Asia ex ANZ	400,730,400	Software	NYSE
CENTESSA PHARMACEUTICALS PLC	United Kingdom	Western Europe	379,500,000	Pharmaceuticals	NASDAQ
LIANBIO	China	Asia ex ANZ	373,750,000	Biotechnology	NASDAQ
CLOOPEN GROUP HOLDING LIMITED	China	Asia ex ANZ	368,000,000	Internet Soft & Serv	NYSE

Transactions

WASEDROP INC	Issue	Country	Region	Capital raised (USD mn)	Industry	Exchange
LEGEND BIOTECH	WATERDROP INC	China	Asia ex ANZ	360,000,000	Insurance	NASDAQ
NANO DIMENSION LTD	EXSCIENTIA PLC	United Kingdom	Western Europe	350,405,000	Pharmaceuticals	NASDAQ
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MMUNOCORE HOLDINGS PLC	NANO DIMENSION LTD	Israel	Middle East	332,500,000	Tech Hardware,	NASDAQ
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MATERIALISE NVBelgiumWestern Europe110,400,000SoftwareNASDAQDINGDONG (CAYMAN) LIMITEDChinaAsia ex ANZ110,045,800Food & StaplesNYSESOS LIMITEDChinaAsia ex ANZ110,000,000Consumer FinanceNYSESOS LIMITEDChinaAsia ex ANZ90,125,000Consumer FinanceNYSESOS LIMITEDChinaAsia ex ANZ86,000,000Consumer FinanceNYSEMYNARICGermanyWestern Europe75,900,000Aerospace & DefenseNASDAQVALNEVA SEFranceWestern Europe75,270,824PharmaceuticalsNASDAQFIRST HIGH-SCHOOL EDUGRPChinaAsia ex ANZ75,000,000Professional ServicesNYSEONION GLOBALChinaAsia ex ANZ70,395,789Multiline RetailNYSE	DOUBLEDOWN INTERACTIVE CO LTD	South Korea	Asia ex ANZ	113,688,000	Hotels, Rest & Leisure	NASDAQ
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FIRST HIGH-SCHOOL EDUGRP China Asia ex ANZ 75,000,000 Professional Services NYSE ONION GLOBAL China Asia ex ANZ 70,395,789 Multiline Retail NYSE	MYNARIC	Germany	Western Europe	75,900,000	Aerospace & Defense	NASDAQ
ONION GLOBAL China Asia ex ANZ 70,395,789 Multiline Retail NYSE	VALNEVA SE	France	Western Europe	75,270,824	Pharmaceuticals	NASDAQ
	FIRST HIGH-SCHOOL EDUGRP	China	Asia ex ANZ	75,000,000	Professional Services	NYSE
ADDEX THERAPEUTICS Switzerland Western Europe 69,000,000 Pharmaceuticals NASDAQ	ONION GLOBAL	China	Asia ex ANZ	70,395,789	Multiline Retail	NYSE
	ADDEX THERAPEUTICS	Switzerland	Western Europe	69,000,000	Pharmaceuticals	NASDAQ

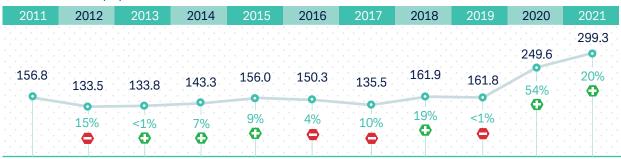
Transactions

Issue	Country	Region	Capital raised (USD mn)	Industry	Exchange
ASLAN PHARMACEUTICALS LTD	Singapore	Asia ex ANZ	69,000,000	Biotechnology	NASDAQ
MOLECULAR PARTNERS AG	Switzerland	Western Europe	63,750,000	Pharmaceuticals	NASDAQ
KUKE MUSIC HOLDING LIMITED	China	Asia ex ANZ	50,000,000	Internet Soft & Serv	NYSE
ITAMAR MEDICAL	Israel	Middle East	49,970,352	Health Care Equipment	NASDAQ
ZHANGMEN EDUCATION INC	China	Asia ex ANZ	47,914,175	Professional Services	NYSE
BRAINSWAY	Israel	Middle East	45,180,050	Health Care Equipment	NASDAQ
MDXHEALTH	Belgium	Western Europe	45,000,000	Health Care Equipment	NASDAQ
RENESOLA	China	Asia ex ANZ	40,000,000	Semiconductors	NYSE
REDHILL BIOPHARMA	Israel	Middle East	36,179,464	Pharmaceuticals	NASDAQ
COLLPLANT HOLDINGS LTD	Israel	Middle East	35,000,000	Biotechnology	NASDAQ
BIOLINE RX LTD	Israel	Middle East	34,500,000	Biotechnology	NASDAQ
AUTOLUS THERAPEUTICS PLC	United Kingdom	Western Europe	30,899,809	Biotechnology	NASDAQ
EVAXION BIOTECH A/S	Denmark	Western Europe	30,000,000	Biotechnology	NASDAQ
HYWIN HOLDINGS LTD.	China	Asia ex ANZ	30,000,000	Diversified Fin Services	NASDAQ
GENENTA	Italy	Western Europe	28,712,556	Biotechnology	NASDAQ
MEATECH 3D LTD	Israel	Middle East	28,030,006	Food Products	NASDAQ
EDAP TMS S.A.	France	Western Europe	28,012,500	Health Care Equipment	NASDAQ
EVAXION BIOTECH A/S	Denmark	Western Europe	27,599,992	Biotechnology	NASDAQ
SOS LIMITED	China	Asia ex ANZ	25,021,250	Consumer Finance	NYSE
REDHILL BIOPHARMA	Israel	Middle East	25,000,004	Pharmaceuticals	NASDAQ
BIONOMICS	Australia	ANZ	23,032,449	Biotechnology	NASDAQ
BIOPHYTIS	France	Western Europe	20,100,000	Pharmaceuticals	NASDAQ
VALNEVA SE	France	Western Europe	13,955,629	Pharmaceuticals	NASDAQ
BIONDVAX PHARMACEUTICALS LTD	Israel	Middle East	13,860,000	Pharmaceuticals	NASDAQ
VOXELJET AG	Germany	Western Europe	11,950,007	Machinery	NASDAQ
VOXELJET AG	Germany	Western Europe	10,038,107	Machinery	NASDAQ
MEDIGUS LTD.	Israel	Middle East	9,742,819	Health Care Equipment	NASDAQ
MEDIGUS LTD.	Israel	Middle East	9,679,999	Health Care Equipment	NASDAQ
SAFE-T GROUP LIMITED	Israel	Middle East	9,230,000	Software	NASDAQ
ECO WAVE POWER GLOBAL AB	Sweden	Western Europe	9,200,000	Electric Utilities	NASDAQ
ECMOHO LIMITED	China	Asia ex ANZ	9,000,000	Internet & DM Retail	NASDAQ
BIOFRONTERA	Germany	Western Europe	8,911,100	Biotechnology	NASDAQ
GENETIC TECHNOLOGIES LTD.	Australia	ANZ	6,562,500	Life Sciences Tools	NASDAQ
STEALTH BIOTHERAPEUTICS CORP	China	Asia ex ANZ	4,678,000	Pharmaceuticals	NASDAQ
BICYCLE THERAPEUTICS	United Kingdom	Western Europe	4,567,400	Biotechnology	NASDAQ
ANPAC BIO-MEDICAL SCI CO LTD	China	Asia ex ANZ	2,513,286	Biotechnology	NASDAQ

Depositary receipt liquidity

299_{bn DR volume traded}

DR volume traded (bn)



Top 10 programs by DR volume traded (bn)

Name	2021 volume (m)	2020 volume (m)	% Change	Industry	Country
NIO INC	17,083	27,774	-38%	Automobiles	China
NOKIA CORP	11,234	8,016	40%	Comms Equipment	Finland
NEW ORIENTAL EDU & TECHN	10,292	3,285	213%	Divs Cons Services	China
ITAU UNIBANCO HOLDING S.A.	9,779	8,389	17%	Commercial Banks	Brazil
PETROLEO BRASILEIRO S.A.	8,131	6,628	23%	Oil, Gas & Fuels	Brazil
BANCO BRADESCO S.A.	7,791	6,080	28%	Commercial Banks	Brazil
VALE S.A.	7,691	7,506	2%	Metals & Mining	Brazil
SOS LIMITED	7,483	150	4,881%	Consumer Finance	China
AMBEV S.A.	6,133	7,507	-18%	Beverages	Brazil
ALIBABA GROUP HOLDING LTD	5,230	4,653	12%	Internet Soft & Serv	China

DR volume and value traded by country

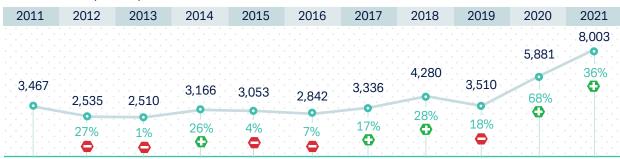


- The volume of DRs traded grew by 20% in 2021 in comparison to 2020, to reach another record high of nearly 300bn
- NIO Inc, a designer, manufacturer and seller of electric vehicles based in China, was the most traded DR program by volume in 2021, 2020 and 2019
- At a country level, issuers from China and Hong Kong represented 55% of DR value traded and 44% of DR volume traded
- Brazil ranks second from a volume traded perspective but represents only 5% of the total value traded

Source: Bloomberg (January 2022)

USD 8,003bn DR value traded

DR value traded (USD bn)



Top 10 programs by DR value traded (USD bn)

	2021 USD bn	2020 USD bn	% Change	Industry	Country
ALIBABA GROUP HOLDING LTD	US\$996	US\$1,101	-10%	Internet Soft & Serv	China
NIO INC	US\$745	US\$618	21%	Automobiles	China
BAIDU INC	US\$384	US\$151	154%	Internet Soft & Serv	China
TAIWAN SEMICONDUCTOR MANU.	US\$287	US\$165	74%	Semiconductors	Taiwan
SEA LIMITED	US\$263	US\$114	130%	Software	Singapore
PINDUODUO INC.	US\$225	US\$175	29%	Internet & DM Retail	China
JD.COM, INC	US\$220	US\$214	3%	Internet & DM Retail	China
FUTU HOLDINGS	US\$211	US\$11	1,839%	Div Fin Services	China
BIONTECH	US\$199	US\$50	296%	Biotechnology	Germany
ASML HOLDING NV	US\$150	US\$72	110%	Semiconductors	Netherlands

DR volume and value traded by sector



- Consistent with the growth in trading volumes, the value of DRs traded also rose to its highest level, increasing 36% year-on-year to USD 8,003bn
- Alibaba, the China based provider of online and mobile marketplaces in retail and wholesale trade, was again the most traded DR program by value in 2021
- The Information Technology sector represented 40% of value traded, whilst consumer discretionary the sector most widely traded by volume accounted for 24% of value traded



Source: Bloomberg (January 2022)

Reported depositary receipt ownership

USD1,177bn institutional investment in DRs



DR Institutional investment levels have decreased by 25% year-on-year

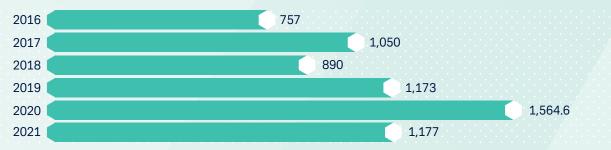


Public data shows that institutional investors now hold USD 1,177bn worth of DRs



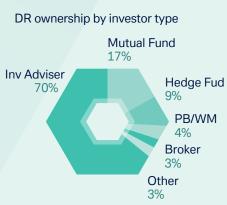
The growth holding style and investment advisor investor type are the largest DR investors

Reported DR institutional ownership (USD bn)









Top 20 DR investment centres - Value held (USD bn)



Source: FactSet Research (January 2022)





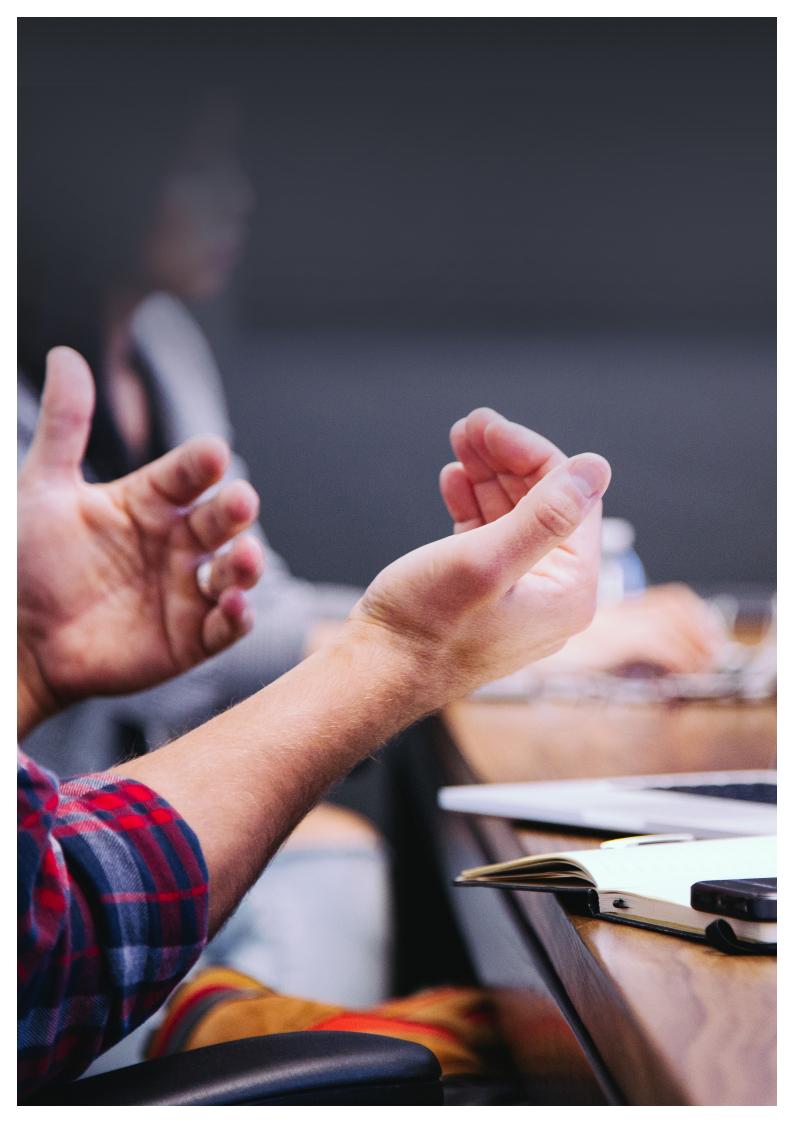
T.Rowe Price Associates, Inc. ranks as the top investor by value of DRs held and Dimensional Fund Advisors LP is the top DR investor by number of programs held

Top institutional investors in depositary receipts - ranked by value held (USD mn)

	Value held (USD mn)	Equity assets (USD mn)	Holdings style	Investor type	Metro region	DRs held
T. Rowe Price Associates, Inc.	42,039	1,195,241	Growth	Mutual Fund	Baltimore	113
Fisher Asset Management LLC	39,640	176,779	Growth	Inv. Adviser	Portland	184
Fidelity Management & Research	28,075	1,451,210	Growth	Inv. Adviser	Boston	243
Capital Research & Management (WI)	27,238	962,895	Growth	Inv. Adviser	Los Angeles	68
Capital Research & Management (II)	26,149	487,466	Growth	Inv. Adviser	Los Angeles	62
Baillie Gifford & Co.	22,231	355,580	Ag. Growth	Inv. Adviser	Scotland	116
BlackRock Fund Advisors	20,763	3,129,388	Index	Inv. Adviser	San Fran	371
The Vanguard Group, Inc.	19,495	4,995,161	Index	Mutual Fund	Philadelphia	303
The Vanguard Group, Inc.	17,098	206,480	Dp Value	Inv. Adviser	San Fran	43
Capital Research & Management (GI)	16,468	603,561	Growth	Inv. Adviser	Los Angeles	49

Top institutional investors in depositary receipts - ranked by the number DRs held

	DRs held	Equity assets (USD mn)	Holdings style	Investor type	Metro region	Value held (USD mn)
Parametric Portfolio Associates LLC	763	507,396	Value	Inv. Adviser	Austin	11,934
Dimensional Fund Advisors LP	594	2,138,726	Index	Mutual Fund	Boston	15,105
Envestnet Asset Management, Inc.	594	13,034	Growth	Inv. Adviser	Raleigh	203
SSgA Funds Management, Inc.	533	194,577	Growth	Inv. Adviser	Chicago	2,503
Private Capital Group LLC	464	475	Growth	Inv. Adviser	Hartford	19
CapFinancial Partners LLC	415	953,213	Index	Inv. Adviser	Boston	3,233
Northern Trust Investments, Inc.	395	183,972	Growth	Mutual Fund	Kansas City	4,215
American Century Investment	379	3,992	Growth	Inv. Adviser	Sydney	24
Aperio Group LLC	379	46,307	Growth	PB/WM	San Fran	4,321
BlackRock Advisors (UK) Ltd.	371	3,129,388	Index	Inv. Adviser	San Fran	20,763





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