

ANNUAL MARKET REVIEW

Annual Market Review and Developers' Research Benchmark

December 2023



December Overview

During December 2023, the FTSE EPRA Nareit (FEN) Global Developed Real Estate Index gained 8.3%, global bonds and equities also returned 3.0% and 2.4%, respectively. Meanwhile, the FEN Emerging Index posted 2.6% monthly return, and emerging equities and bonds also gained 2.0% and 3.2%, respectively.

Focusing on regional and sector performances, all regions posted positive monthly returns: Europe (10.6%) Asia (5.9%) and North America (8.6%). Self-storage (19.0%), office (12.2%), industrial (11.9%) and industrial/office (11.3%) were top performers and the remaining sectors returned positive for a month, except data centres (-2.6%), as the bottom performer. The annual performance overview is given in the '2023 Performance: Global Overview's ection.

EPRA Developers Research Benchmark

The EPRA Developers Research Benchmark is a non-commercial benchmark designed to allow its constituents to assess themselves against each other. The benchmark gained 10.3% in December and brought annual return to 34.1%. The benchmark now has a total of 29 constituents from 12 different countries in Developed Europe (18 out of the UK) and an aggregated full market cap of EUR 46,501 million (29/12/2023). A high-level computation can be found in the relevant section (page 12).

2023 Highlights

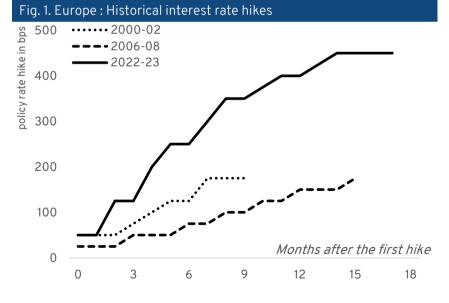
The shifting macroeconomics and elevated geopolitical pressures remained as the main concerns during 2023. Apart from the ongoing war in Ukraine, the heightened geopolitical tensions in the Middle East put additional pressures and increased the uncertainty for outlook.

The ECB launched the most aggressive series of policy rate hike in decades, amounting a total of 450 bps increase compared to 175 bps increase during the GFC (2006-2008) within the same period (12 to 15 months) (Fig.1). The ECB raised the refinancing rate to 4.5% at September meeting and kept unchanged at the last meeting of the year in December. The Eurozone inflation is in a decreasing trend, came down from its peak of 10.6% in October 2022 to 2.4% in November 2023 and it is expected to be 2.9% in December. It created an expectation of cut in interest rate as early as in the first quarter of 2024. However, the ECB is still cautious on inflation and monetary tightening strategy remains uncertain. Although inflation has dropped in recent months, it is likely to pick up again temporarily in the near term. The ECB expects headline inflation to come down to 2.7% in 2024, 2.1% in 2025 and 1.9% in 2026.

European listed real estate companies have concerns on increasing financing costs, but they have healthier balance sheets compared to the GFC and Eurozone debt crisis, thanks to favourable financial metrics, such as historically lower leverage levels (39%), higher proportion of fixed-interest-rate debt (around 83.5%), longer debt maturities (roughly 34% of the debt issued by European LRE companies is set to mature within the 2024 to 2026). It provides some comfort to companies adjusting to a new macro-economic environment until policy rates stabilise around the 3% mark within a few year. You can read EPRA's special report *Reshaping debt profiles: Comprehensive analysis of European LRE*

FTSE EPRA Nareit Global Index Total Return

% Total Returns (EUR)	1	Dec-23	1 yr	3 yrs*	5 yrs*	10 yrs*
Global Real Estate		8.3	7.1	5.7	4.5	6.9
Global Equities (FTSE)		2.4	18.2	11.5	10.5	8.5
Global Bonds (JP Morgan)		3.0	0.6	-3.7	1.5	2.2
Europe Real Estate		10.6	17.4	-4.1	0.6	4.4
Europe Equities (FTSE)		3.3	15.6	8.5	9.6	6.8
Europe Bonds (JP Morgan)		2.3	3.0	-3.0	-0.7	3.6
Asia Real Estate		5.9	-4.0	0.8	0.3	3.3
Asia Equities (FTSE)		0.7	11.2	6.7	9.3	9.1
Asia Bonds (JP Morgan)	•	-0.5	-1.5	1.4	0.0	3.2
North America Real Estate		8.6	9.2	10.3	7.1	9.2
NA Equities (FTSE)		3.0	22.4	13.0	16.3	14.2
NA Bonds (JP Morgan)		1.7	1.0	-0.4	1.4	3.8
Emerging Real Estate		2.6	-5.4	-6.3	-4.0	3.0
Emerging Equities (FTSE)		2.0	5.6	0.1	5.5	5.9
Emerging Bonds (JP Morgan)		3.2	6.9	0.2	2.6	5.4
(*) Annualised.						



Source: EPRA Research. Compiled from ECB (as of 29/12/2023).

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Sector Performance : Developed Europe

First half of the year was challenging, but the FEN Developed Europe's sector indices gained momentum benefitting from good performance of the last two months and all sectors posted positive annual returns, except healthcare (-3.0%) as the bottom performer. Meanwhile lodging/resorts (31.8%), residential (24.9%), retail (21.6%), industrial/office (21.4%) and industrial (20.5%) were top performers (Fig. 2). Based on cumulative returns (since 19/02/2020), self-storage (8.1%) and industrial (3.9%) are the only sectors to be traded above their pre-crisis level (Table 1).

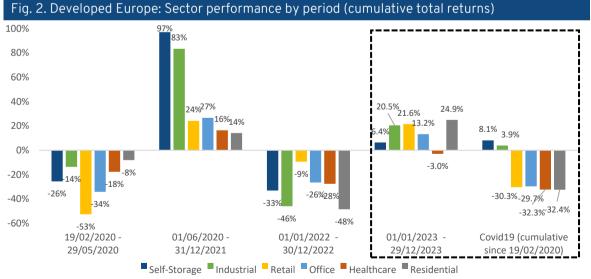
Focusing on P/D to NAV figures, the European average is standing at -35.0% (was -44.3% last year) and at -22.7% for 5-year average, as end of December. All sectors are still trading with discount which is limited for self-storage (-10.0%) and industrial (-10.9%). In terms of 5-year average, self-storage (29.2%), healthcare (16.5%) and industrial (9.8%) are trading above the 5-year average levels (Fig. 3).

Capital raising in Europe

The listed real estate companies in Europe raised EUR 10.4 billion (EUR 6.7 bln debt and EUR 3.7 bln equity) in new fresh capital during 2023. The average LTV in Europe stands at 39% with the lowest in the UK (31%) and the highest in Norway (53%), as end of December.

The constituents of the FEN Developed Europe index issued a total of EUR 1.7 billion of green bonds in 2023 and total amount reached to EUR 35.2 billion since 2013 (Fig. 4).

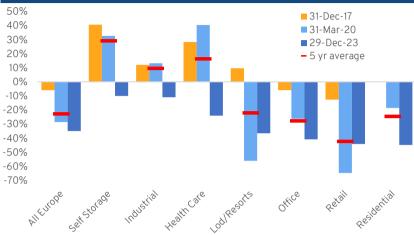
You can also read a special report on '*Estimating a green premium in LRE bonds*'.



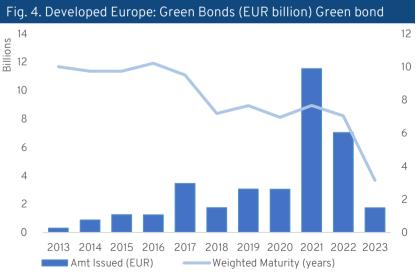
Source: EPRA Research. Data is compiled from the FEN Index (as of 29/12/2023)

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Source: EPRA. (*) Starting from March 2021, the aggregated PD is computed using the simple average of the new 3 EPRA NAV metrics (NRV, NTA, NRV), the average has been retrospectively applied since 2020, depending on the companies information availability.



Source: EPRA LTV Monitor. Data is compiled from S&P, Bloomberg (as of 29/12/2023).





2023 Performance: Global overview

European Public

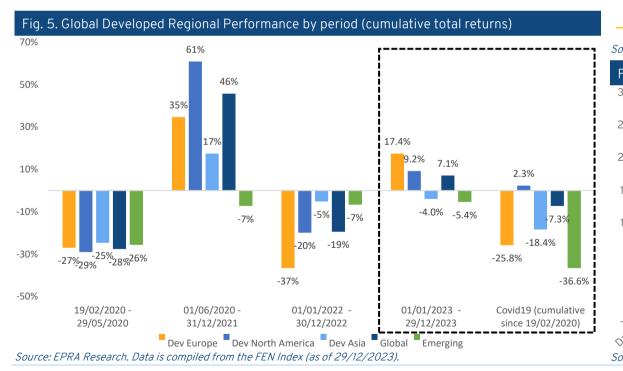
Real Estate Association

The FEN Global Developed Real Estate index posted an annual return of 7.1%. Global equities (18.2%) showed better performance compared to global bonds posting limited but still positive annual return (60 bps). Annualised ten-year rolling returns for real estate investments stand at 6.9%, while general equities posted an 8.5% return and bonds gained 2.2% during the same period.

In terms of regional performance, Europe (17.4%) and North America (9.2%) gained positive annual returns compared to a loss from Asia index (-4.0%). Only North America (2.3%) is performing above its pre-pandemic level (Fig.5 and 6).

Focusing on annual performance by sectors, data centres (25.5%) was outperformer followed by lodging/resorts (15.9%), self-storage (13.3%), industrial (12.3%) and industrial/office (12.1%). Office (-1.7%) and diversified (-81 bps) were the bottom performers while the remaining sectors posted positive annual returns.

At the end of December 2023, the <u>FEN Developed Index</u> counted a total of 369 constituents, representing a free float market capitalisation of around EUR 1,5 trillion.



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Fig. 6. Total return by region: (31/12/2019=1000)



Source: EPRA Research. Data is compiled from the FEN Index (as of 29/12/2023).



Source: EPRA (as of 29/12/2023). (*) Annualised.

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Major Corporate Actions in the FEN Developed Index in 2023

- *Store Capital REIT* (USA, constituent) was deleted from the index, following the completion of the acquisition by GIC and Oak Street (non-constituents) February, 3.
- *Neobo Fastigheter* (Sweden, constituent) was deleted from the index, following the listing and commencement of trading on the ineligible Nasdaq First North Premier Growth Market Feb, 15.
- *Summit Industrial Income REIT* (Canada, constituent) was deleted from the index, following the completion of the acquisition by GIC and Dream Industrial REIT -February, 17.
- *Home REIT*(UK) was deleted from the index, following prolonged share suspension -March, 2.
- *Shaftesbury* (UK) was deleted from the index, after a merger with Capital&Countries Properties (UK, renamed as Shaftesbursy Capital) -March, 6.
- Unibail Rodamco Westfield remained in the index with an updated nationality of France, due to the voluntary delisting from Euronext Amsterdam and the concurrent reassignment of a FTSE nationality of France from Netherlands April, 28.
- *Civitas Social Housing* (UK, constituent) was deleted from the index, following the cash offer by Wellness Unity Limited (non-constituent), being declared unconditional and the expected cancellation of trading -July, 11.
- *Life Storage* (USA, constituent) was deleted from the index, after the completion of the merger with Extra Space Storage (USA, constituent), July, 24.
- *CT Property Trust* (UK, constituent) was deleted from the index, after a merger with LondonMetric Property (UK, REIT, Rental) August, 7.
- *Abacus Storage King* (Australia) was added to the index, following approval to the de-stapling from Abacus Property Group (Australia) August, 1.
- *Regency Centers* (USA) remained in the index, after the completion of the merger with Urstadt Biddle Pptys (USA, non-constituent) August, 22.
- *The Necessity Retail REIT Inc* (USA, constituent) was deleted from the index, after the completion of the merger with Global Net Lease (USA, constituent) -September, 12.
- Ediston Property Investment Company (UK, REIT, Retail) was deleted from the index, following the disposal of the entire property portfolio and its subsequent reclassification to an ineligible ICB (updated from 35102045 (Retail REITs) to 30205000 (Open End and Miscellaneous Investment Vehicles) October, 6.
- *Net Lease Office Properties* (USA) was added to the index, after the completion of the demerger from W. P. Carey Inc. (USA, constituent) November, 2.
- *Kenedix Retail REIT* (Japan, constituent) and *Kennedix Residential REIT* (Japan, constituent) were deleted from the index, after a merger with Kenedix Office Investment Corp. October. 31.

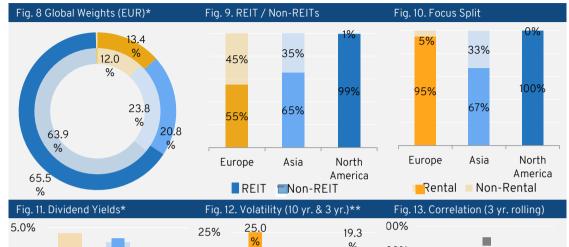
FTSE EPRA Nareit Developed Index – Top 10 Constituents*

Company	Sector	Country	Total Return
ProLogis USA	Industrial	USA	21.3%
Equinix Inc	Data Centers	USA	25.2%
Welltower	Healthcare	USA	41.3%
Public Storage, Inc.	Self-Storage	USA	16.8%
Simon Property Group, Inc.	Retail	USA	27.8%
Realty Income Corp.	Retail	USA	-4.3%
Digital Realty Trust	Data Centers	USA	39.1%
Extra Space Storage	Self-Storage	USA	13.3%
Vici Properties Inc	Specialty	USA	3.4%
AvalonBay Communities, Inc.	Residential	USA	20.0%
FTSE EPRA Nareit Developed Index	x – Top 10 Perfor	mers*	
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Company	Sector	Country	Total Return
Company TAG Immobilien-AG	Sector Residential	Country GER	Total Return 118.3%
		,	
TAG Immobilien-AG	Residential	GER	118.3%
TAG Immobilien-AG Tanger Inc	Residential Retail	GER USA	118.3% 59.9%
TAG Immobilien-AG Tanger Inc Lar Espana Real Estate SOCIMI SA	Residential Retail Retail	GER USA SP	118.3% 59.9% 49.1%
TAG Immobilien-AG Tanger Inc Lar Espana Real Estate SOCIMI SA Fastighets AB Balder	Residential Retail Retail Diversified	GER USA SP SWED	118.3% 59.9% 49.1% 47.6%
TAG Immobilien-AG Tanger Inc Lar Espana Real Estate SOCIMI SA Fastighets AB Balder HULIC CO LTD	Residential Retail Retail Diversified Diversified	GER USA SP SWED JA	118.3% 59.9% 49.1% 47.6% 46.6%
TAG Immobilien-AG Tanger Inc Lar Espana Real Estate SOCIMI SA Fastighets AB Balder HULIC CO LTD Chartwell Retirement Residences	Residential Retail Retail Diversified Diversified Healthcare	GER USA SP SWED JA CAN	118.3% 59.9% 49.1% 47.6% 46.6% 46.1%
TAG Immobilien-AG Tanger Inc Lar Espana Real Estate SOCIMI SA Fastighets AB Balder HULIC CO LTD Chartwell Retirement Residences Boardwalk REIT	Residential Retail Retail Diversified Diversified Healthcare Residential	GER USA SP SWED JA CAN CAN	118.3% 59.9% 49.1% 47.6% 46.6% 46.1% 46.1%
TAG Immobilien-AG Tanger Inc Lar Espana Real Estate SOCIMI SA Fastighets AB Balder HULIC CO LTD Chartwell Retirement Residences Boardwalk REIT SL Green Realty Corp.	Residential Retail Diversified Diversified Healthcare Residential Office	GER USA SP SWED JA CAN CAN USA	118.3% 59.9% 49.1% 47.6% 46.6% 46.6% 46.1% 45.9%

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5





% 80% 4.0% 20% 60% 3.0% 15% 11.2% 40% 10% 2.0% 20% 5% 1.0% 0% 0% 0.0% Real Real Bonds vs Europe Asia North North Europe Asia Estate vs Estate vs Equities America America Bonds Equities

Table 1. Developed Europe Return by Sector (%)***

	Tuble 1. Developed Europe Retain by Sector (70)														
Dev. Europe: Monthly Total Return Ar							Annual	Ukraine war	Covid-19						
	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Dec-23	23-Feb-22	19-Feb-20
Dev. Europe	8.9%	-1.1%	-11.4%	5.8%	-7.3%	-1.3%	9.2%	-0.9%	-3.5%	-3.5%	13.9%	10.6%	17.4%	-19.0%	-25.8%
Self-Storage	6.7%	1.9%	-4.3%	4.9%	-4.6%	-6.7%	3.1%	-0.5%	-14.2%	-3.3%	13.7%	13.2%	6.4%	-15.9%	8.1%
Industrial	9.7%	-0.5%	-5.9%	7.7%	-3.3%	-8.1%	7.0%	-1.1%	-5.8%	-2.6%	15.1%	9.8%	20.5%	-24.7%	3.9%
Diversified	6.1%	-0.2%	-9.2%	4.8%	-9.7%	-1.2%	9.4%	-1.0%	-3.1%	-2.5%	12.4%	10.3%	14.1%	-14.2%	-26.1%
Office	10.6%	-0.5%	-11.0%	3.9%	-5.6%	-0.8%	6.6%	-2.5%	-2.1%	-4.8%	11.2%	10.4%	13.2%	-9.3%	-29.7%
Retail	9.8%	2.4%	-11.1%	3.9%	-7.5%	5.4%	7.0%	-1.5%	-4.0%	-2.8%	12.4%	8.5%	21.6%	-1.0%	-30.3%
Healthcare	4.1%	-2.6%	-6.5%	4.1%	-7.3%	-3.7%	4.3%	-1.2%	-8.0%	-3.6%	10.7%	8.9%	-3.0%	-20.0%	-32.3%
sidential	12.6%	-5.2%	-20.8%	-4.5%	-7.1%	2.0%	14.7%	1.4%	-0.2%	-4.7%	16.4%	10.2%	24.9%	-31.3%	-32.4%
Lodging/Resorts	20.7%	1.3%	-10.3%	9.9%	-10.7%	10.9%	0.4%	-4.2%	-1.3%	-8.2%	20.2%	21.4%	31.8%	4.0%	-33.3%

(*) Shaded bars are last year's (**) Shaded bars are 10 yr.

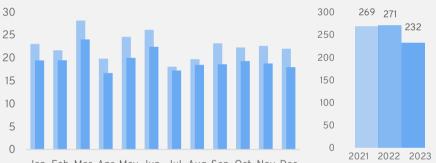
(***) Data is compiled from the FEN Index series (as of 29 December 2023).

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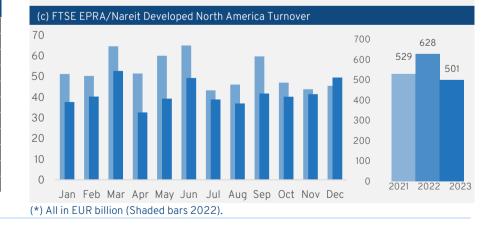
Fig. 14 (a) TSE EPRA/Nareit Developed Europe Turnover*



(b) FTSE EPRA/Nareit Developed Asia Turnover



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec



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FTSE EPRA Nareit Developed Europe Index

During December 2023, the FEN Developed Europe Index gained 10.6%, and Europe equities and bonds also posted monthly returns of 3.3% and 2.3%, respectively. Over a one-year period, Europe real estate index returned 17.4% gaining momentum with good performance of the last two months. European equities (15.6%) and European bonds (3.0%) also posted positive annual returns.

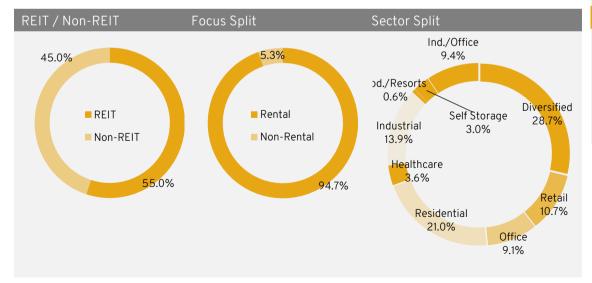
Based on cumulative returns (since 19/02/2020), the FEN Developed Europe index is still performing below its pre-Covid19 level with -25.8% cumulative return.

Annual country performances Germany (32.0%), Austria (30.1%), France (22.9%) and Spain (20.4%) were the top performers. The remaining country indexes also returned positive which were Sweden (19.6%), the UK (10.7%), Belgium (5.2%) and Netherlands (4.5%), except Finland (-10.5%) and Italy (-17.4%) as the bottom performers in Developed Europe region.

Annual sector performances Lodging/resorts (31.8%) was outperformer followed by residential (24.9%), retail (21.6%), industrial/office (21.4%) and industrial (20.5%). The remaining sectors also returned positive, except healthcare (-3.0%) as the bottom performer.

2023-Q4 Index Review : There were no additions or deletions in Europe index.

<u>Developed Europe</u> representing a free float MCap of around EUR 199 billion with 107 constituents, as of 29/12/2023.



FTSE EPRA Nareit Developed Europe - Country Indice

			3 yrs*	5 yrs*	10 yrs*
Europe (EUR)	10.6	17.4	-4.1	0.6	4.4
Europe ex UK (EUR)	11.2	19.5	-5.6	0.0	5.4
UK (GBP)	9.8	10.7	-0.9	1.3	2.7
France (EUR)	9.8	22.9	5.2	3.3	3.8
Netherlands (EUR)	1.7	4.5	-3.4	-12.1	-6.8
Germany (EUR)	11.5	32.0	-15.6	-4.7	7.2
Sweden (SEK)	16.4	19.6	-1.0	7.4	13.4

(*) Annualised.

FTSE EPRA Nareit Developed Europe – Top 5 Performers*

Company	Sector	Country	Total Return				
TAG Immobilien-AG	Residential	GER	118.3%				
Lar Espana Real Estate SOCIMI SA	Retail	SP	49.1%				
Fastighets AB Balder	Diversified	SWED	47.6%				
VGP NV	Industrial	BELG	38.5%				
Atrium Ljungberg AB	Diversified	SWED	38.5%				
FTSE EPRA Nareit Developed Europe – Bottom 5 Performers*							
Company	Sector	Country	Total Return				
SBB Norden AB	Diversified	SWED	-67.5%				
Phoenix Spree Deutschland Ltd.	Residential	UK	04.004				
r noenix opree Deatsoniana Eta.	restaernaa	OIN	-31.0%				
CLS Holdings Plc	Office	UK	-31.0% -30.8%				
,							
CLS Holdings Plc	Office	UK	-30.8%				

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7

The FEN Developed Asia Index returned 5.9% while Asia equities gained 70 bps compared to a loss of 51 bps from Asia bonds, during December. Asia real estate index lost 4.0% compared to a gain of 11.2% from Asia equities and a loss of 1.5% from Asia bonds, on annual basis.

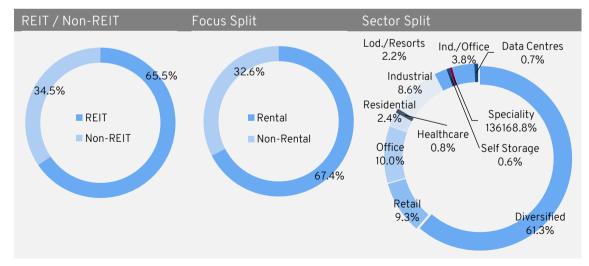
Based on cumulative returns (since 19/02/2020), the FEN Developed Asia index is still performing below its pre-Covid19 level with -18.4% cumulative return.

Annual country performance Japan (11.1%), Australia (6.5%%) and Singapore (3.1%) were the top performers while Hong Kong (-19.7%), South Korea (-15.9%) posted negative annual returns as bottom performers – *in local currencies.*

Annual sector performances Industrial/office (4.5%) was the top performer as the only sector returned positive., while office (-8.8%) and industrial (-8.3%) were the bottom performers in Asia region.

2023-Q4 Index Review : There were no additions or deletions in Asia index.

<u>Developed Asia</u> representing a free float MCap of over EUR 310 billion with 134 constituents, as of 29/12/2023.



FTSE EPRA Nareit Asia - Country Indices

TISE ELINA NOTER AS	a country	multes			
% Total Returns	Dec-23	1 yr	3 yrs*	5 yrs*	10 yrs*
Asia (EUR)	5.9	-4.0	0.8	0.3	3.3
Hong Kong (HKD)	8.84	-19.7	-5.7	-5.3	0.4
Japan (JPY)	-1.2	11.1	7.7	5.3	1.7
Australia (AUD)	10.3	6.5	3.8	2.0	7.3
Singapore (SGD)	8.0	3.1	0.7	4.8	5.2
South Korea (KRW)	0.4	-15.9	n.a	n.a	n.a
(*) Annualised.					

TSE EPRA Nareit Developed Asia – Top 5 Performers*

Company HULIC CO LTD	Sector Diversified	Country JA	Total Return 46.6%
Mitsui Fudosan Co., Ltd.	Diversified	JA	45.8%
Tokyo Tatemono Co., Ltd.	Diversified	JA	36.8%
Sumitomo Realty & Dev Co Ltd	Diversified	JA	36.2%
Nomura Real Estate Holdings	Diversified	JA	35.7%

FTSE EPRA Nareit Developed Asia – Bottom 5 Performers

Company	Sector	Country	Total Return
Wharf Real Estate Investment	Diversified	HK	-39.2%
Hysan Development Company Ltd.	Diversified	HK	-33.0%
New World Development Co. Ltd.	Diversified	НК	-32.1%
Cromwell Property Group	Diversified	AU	-30.9%
Sunlight REIT	Diversified	НК	-28.8%
* Annual returns			

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The FEN North America Index returned 8.6%, and North America equities and bonds also posted positive monthly returns of 3.0% and 1.7%, respectively, in December. On annual basis, North America real estate index gained 9.2%, while North America equities and bonds returned 22.4% and 98 bps, respectively.

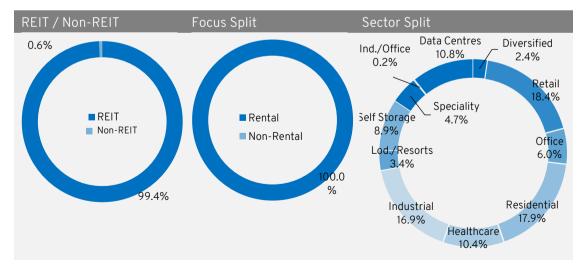
Based on cumulative returns (since 19/02/2020), the FEN Developed North America index is performing above its pre-Covid19 level with 2.3% cumulative return, which is the only region returned to pre-Covid19 level.

Annual country performance Over a one-year period, the U.S. Index and the Canada Index posted annual returns of 13.3% and 4.5%, respectively *- in local currencies.*

Annual sector performances: Data centres (25.7%), lodging/resorts (21.0%) and industrial (15.0%) were the top performers, while industrial/office (-13.7%) and office (-1.1%) were the bottom performers. The remaining sectors posted positive annual returns in North America region.

2022-Q4 Index Review There were no additions or deletions in North America index.

<u>Developed North America</u> representing a free float MCap of around EUR 974 billion with 125 constituents as of 29/12/2023.



FTSE EPRA Nareit Developed North America - Country Indices

% Total Return	Dec-23	1 yr	3 yrs*	5 yrs*	10 yrs*
North America (USD)	10.0	13.0	6.6	6.4	6.8
United States (USD)	9.9	13.3	6.7	6.4	7.0
Canada (CAD)	9.2	4.5	4.8	3.6	5.6

(*) Annualised.

FTSE EPRA Nareit Developed North A	merica – Top 5	Performers*						
Company	Sector	Country	Total Return					
Tanger Inc	Retail	USA	59.9%					
Chartwell Retirement Residences	Healthcare	CAN	46.1%					
Boardwalk REIT	Residential	CAN	46.1%					
SL Green Realty Corp.	Office	USA	45.9%					
Empire State Realty Trust	Office	USA	45.9%					
FTSE EPRA Nareit Developed North America – Bottom 5 Performers*								
Company	Sector	Country	Total Return					
Company Medical Properties Trust	Sector Healthcare							
, ,		Country	Total Return					
Medical Properties Trust	Healthcare	Country USA	Total Return -48.0%					
Medical Properties Trust Northwest Healthcare Properties REIT	Healthcare Healthcare	Country USA CAN	Total Return -48.0% -40.2%					
Medical Properties Trust Northwest Healthcare Properties REIT Community Healthcare Trust, Inc.	Healthcare Healthcare Healthcare	Country USA CAN USA	Total Return -48.0% -40.2% -20.5%					

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FTSE EPRA Nareit Emerging Index

During December 2023, the FEN Emerging Index gained 2.6%, resulting in a negative annual return of 5.4%. Meanwhile, emerging equities and bonds returned 2.0% and 3.2% for the month, respectively. As a result, annual return stands at 5.6% for equities and 6.9% for bonds. Based on cumulative returns (since 19/02/2020), the FEN Emerging index is still performing quite below its pre-Covid19 level with -36.6% cumulative return.

You can read EPRA's special report: *Emerging Markets Reports - 2023 Edition.*

Annual country performance: Brazil (60.8%) Mexico (59.1%) and India (53.1%) were outperformers followed by Czechia (44.1%) and UAE (29.9%). Meanwhile, Turkey (-39.2%), China (-37.0%), South Africa (-13.1%), Saudi Arabia (-4.0%), Thailand (-2.6%), Philippines (-2.1%) and Malaysia (-35 bps) were bottom performers and the remaining country indexes posted positive annual returns in the emerging index.

Annual sector performances: Industrial (48.1%) was outperformer followed by retail (24.7%) and healthcare (10.5%) and the remaining sectors returned negative which data centres (-57.3%), residential (-21.5%), and lodging/resorts (-11.5%) were the bottom performers in the emerging index.

2023-Q4 Index Review: There was one deletion in the emerging index. *Hyprop Investment* (South Africa) was deleted from the emerging index.

At the end of December 2023, the <u>FEN Emerging Index</u> counted a total of 126 constituents, representing a free float market capitalisation of around EUR 122 billion.

FTSE EPRA Nareit Emerging - Country Indices							
% Total Returns	Dec-23	1 yr	3 yrs*	5 yrs*	10 yrs*		
Emerging (EUR)	2.6	-5.4	-5.4	-6.3	-4.0		
Emerging EMEA (EUR)	2.5	2.6	2.6	12.1	-1.9		
Emerging Europe (EUR)	-0.6	0.5	0.5	7.3	17.9		
Emerging MEA (EUR)	3.1	2.7	2.7	13.7	-3.3		
Emerging APAC (EUR)	0.7	-17.1	-17.1	-13.8	-7.9		
Emerging Americas (EUR)	9.4	54.4	54.4	17.7	10.2		

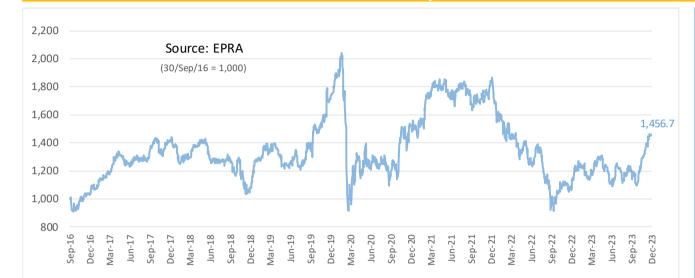
(*) Annualised.

FTSE EPRA Nareit Emerging – Top 10 Constituent

Company	Sector	Country	Total Return
China Resources Land Ltd	Diversified	CHN	-21.1%
China Overseas Land & Investment Ltd.	Diversified	CHN	-29.6%
Central Pattana Public Company Ltd.	Diversified	THAI	0.2%
SM Prime Holdings	Diversified	PHIL	-6.7%
DLF	Diversified	IDA	94.8%
ALDAR PROPERTIES PJSC	Diversified	UAE	24.4%
Fibra Uno Administracion S.A. de C.V.	Diversified	MEX	44.7%
Ayala Land	Diversified	PHIL	13.1%
Embassy Office Parks REIT	Office	IDA	3.1%
Corporacion Inmobiliaria Vesta	Industrial	MEX	45.2%
FTSE EPRA Nareit Emerging – Top 10 P	erformers		
Company	Sector	Country	Total Return
Construtora Tenda SA	Residential	BRAZ	251.4%
Prestige Estates	Residential	IDA	154.6%
Moura Dubeux Engenharia SA	Residential	BRAZ	129.4%
DLF	Diversified	IDA	94.8%
Brigade Enterprises	Diversified	IDA	93.3%
Empreendimentos e Participacoes	Residential	BRAZ	90.7%
Mitre Realty Empreendimentos e Participacoes SA	Residential	BRAZ	90.6%
	Residential	BRAZ	90.0%
Macrotech Developers	Diversified	IDA	87.9%
Helbor Empreendimentos S.A.	Diversified	BRAZ	77.5%
FTSE EPRA Nareit Emerging – Bottom 1	10 Performers		
Company	Sector	Country	Total Return
Country Garden Holdings	Residential	CHN	-70.8%
Agile Property Holdings	Diversified	CHN	-63.2%
Sino-Ocean Group Holdings (Red Chip)	Residential	CHN	-59.6%
GDS Holdings	Data Centers	CHN	-55.8%
Gemdale Properties and Investment	Diversified	CHN	-55.1%
Powerlong Real Estate Holdings	Diversified	CHN	-53.5%
China Vanke Co., Ltd (H)	Residential	CHN	-49.6%
Midea Real Estate Holding (P Chip)	Diversified	CHN	-48.8%
Cosmopolitan International Holdings	Diversified	CHN	-45.4%
Longfor Group Holdings (P Chip)	Diversified	CHN	-45.0%



EPRA Developers Research Benchmark Friday, 29 December 2023



Historical Performance	Last Month	1 Year	3 Years	5 Years
Total Return	10.3%	34.1%	-4.8%	33.4%
Total Return (Annualized)	10.3%	34.1%	-1.6%	6.7%
Return	3 Months	6 Months	Year to Date	5 Years

Total Return	20.3%	31.5%	36.9%	33.4%
Maximum Return	4.9%	4.9%	4.9%	11.6%
Minimum Return	-3.7%	-3.7%	-5.4%	-13.2%
Mean Return (Annualized)	193.9%	123.3%	61.8%	16.2%
Maximum Drawdown	-8.3%	-12.6%	-16.7%	-55.3%
Maximum Drawdown Length	10	65	35	690

Risk	3 Months	6 Months	Year to Date	5 Years
Standard Deviation (Annualized)	24.9%	24.1%	23.9%	31.5%
Downside Risk (Annualized)	17.2%	16.1%	16.4%	22.1%
Kurtosis	0.80	0.89	1.45	6.46
Skewness	0.26	0.37	0.17	0.12
Semivariance (Annualized)	24.7%	22.6%	22.4%	31.0%
VaR (ex-post)	-2.09	-2.05	-2.29	-2.98
Rick Adjusted Performance	0 Mantha	C Montho	Veer te Dete	E Veere
Risk-Adjusted Performance	3 Months	6 Months	Year to Date	5 Years
Sharpe Ratio	4.51	3.07	1.58	0.35

The EPRA Developers Research

Benchmark is an equity index aiming to represent the aggregated performance of the most significant and liquid real estate developers in Europe, including both residential and commercial developers.

This is a benchmark developed for research purposes only, using free float market cap as the main input for computing index weights. The final list of constituents has been filtered applying a comprehensive methodology that combines both market and real estate criteria to determine the best companies to represent the sector. Two subindexes are also computed: 1) Liquid Developers (FFMC > EUR 500M) and 2) Residential Developers

Key Features

Benchmark Type: Equity Index Industry: Real Estate Developers Launch Date: 31/Dec/2021 Geography: Developed Europe Weights Input: FF Market cap Base Currency: EUR Base Date: 30/Sep/2016 Base Value: 1,000 Review Dates: April, October

Raw data accessible on demand at research@epra.com

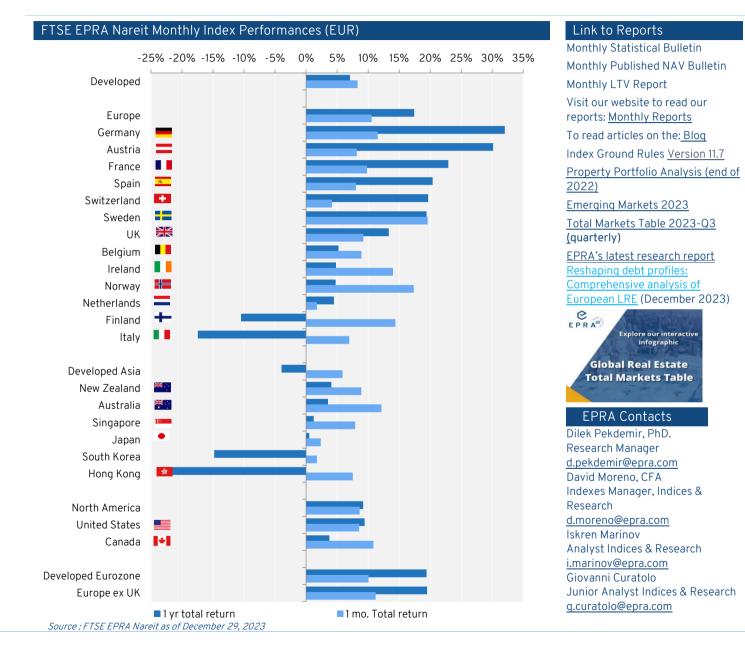


EPRA Developers Research Benchmark Friday, 29 December 2023					
Constituent	ISIN	Weight	Country	Currency	
BARRATT DEV	GB0000811801	15.48%	UK	GBp	Belgium, 0.42% Poland, 1.69% Germany, 0.53% Finland, 0.74%
TAYLOR WIMPEY PL	GB0008782301	14.41%	UK	GBp	Germany, 0.53% Spain, 2.09% Ireland, 3.45% Switzerland, 0.47%
BERKELEY GROUP	GB00BLJNXL82	13.62%	UK	GBp	Denmark, 0.35%
PERSIMMON	GB0006825383	12.43%	UK	GBp	Sweden, 2.88% France, Norway, 0.27%
VISTRY GROUP PLC	GB0001859296	9.61%	UK	GBp	3.80%
BELLWAY PLC	GB0000904986	9.22%	UK	GBp	United Kingdom, 83.31%
REDROW PLC	GB00BG11K365	5.34%	UK	GBp	
CREST NICHOLS	GB00B8VZXT93	1.57%	UK	GBp	
HARWORTH GROUP P	GB00BYZJ7G42	0.65%	UK	GBp	Eligibility Criteria
MJ GLEESON PLC	GB00BRKD9Z53	0.63%	UK	GBp	EBITDA: ≥ 50% from Property Development
WATKIN JONES PLC	GB00BD6RF223	0.36%	UK	GBp	EBITDA: ≥ 75% from Real Estate Activities
NEXITY	FR0010112524	1.72%	France	EUR	
ALTAREA	FR0000033219	0.98%	France	EUR	Size: > 0.30% of the Benchmark size and
KAUFMAN & BROAD	FR0004007813	1.11%	France	EUR	Minimum of EUR 150 Million in FFMC
NEINOR HOMES SA	ES0105251005	0.82%	Spain	EUR	
METROVACESA SA	ES0105122024	0.82%	Spain	EUR	Liquidity: ≥ 0.05% of their (FF) shares in
AEDAS HOMES SA	ES0105287009	0.45%	Spain	EUR	issue based on their median daily trading
IMMOBEL	BE0003599108	0.32%	Belgium	EUR	volume per month
ATENOR	BE0003837540	0.10%	Belgium	EUR	
GLENVEAGH PROPER	IE00BD6JX574	1.71%	Ireland	EUR	Reporting: public AR in English (Full set of
CAIRN HOMES	IE00BWY4ZF18	1.73%	Ireland	GBp	audited FS, notes and Mgt Report)
DEVELIA SA	PLLCCRP00017	1.04%	Poland	PLN	
DOMDEV	PLDMDVL00012	0.64%	Poland	PLN	Geography: ≥ 75% EBITDA from Developed
HUSCIET A/S	DK0061412855	0.35%	Denmark	DKK	countries
YIT OYJ	FI0009800643	0.74%	Finland	EUR	
INSTONE REAL EST	DE000A2NBX80	0.53%	Germany	EUR	Assets: ≥ 50% of Total Tangible Assets
SELVAAG BOLIG AS	NO0010612450	0.27%	Norway	NOK	invested in RE. No Holding structures.
JM AB	SE0000806994	2.88%	Sweden	SEK	
CHAM GROUP AG	CH0001931853	0.47%	Switzerland	CHF	Eligible Markets: Premium and main trading segments of official stock exchanges.
Developers Sub-Indexes: Risk and Return	3 Months	6 Months	Year to Date	5 Years	
Liquid Developers: Total Return	21.38%	34.69%	38.08%	32.63%	Data Availabilty: Monthly computations.
Liquid Developers: Standard Deviation (Annualized)	26.47%	25.98%	25.38%	32.64%	Perfomance figures available on this report.

Developers Sub-Indexes: Risk and Return	3 Months	6 Months	Year to Date	5 Years
Liquid Developers: Total Return	21.38%	34.69%	38.08%	32.63%
Liquid Developers: Standard Deviation (Annualized)	26.47%	25.98%	25.38%	32.64%
Residential Developers: Total Return	20.69%	33.15%	38.04%	32.61%
Residential Developers: Standard Deviation (Annualized)	25.39%	24.76%	24.28%	32.06%

11





EPRA INSEAD Education Programme, 2024 Edition (18-20 June, Fontainebleau)

Held in partnership with INSEAD, the Executive Programme is a unique, intensive course that covers the latest trends shaping the listed real estate sector, such as e-commerce and logistics, digitalisation and data analytics.

EPRA Bayes Business School Online Programme, Understanding the REIT price

An online programme dedicated to understanding the listed real estate market, the 4th edition will be in Autumn 2024.

For more information about the Education programmes, contact: <u>education@epra.com.</u>



EPRA Research Webinar Series (January 23 and February 28)

We are pleased to host three webinars for the EPRA Research Webinar Series dedicated to research papers under EPRA Academic Research Programme 2023. Follow our updates under this link.

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