

MONTHLY MARKET REVIEW

# Monthly Market Review and Developers' Research Benchmark

March 2023



#### Overview

The FTSE EPRA Nareit (FEN) Global Developed Real Estate Index lost 5.4% in March and now YTD return stands at -75 bps. Global equities lost 5 bps compared to a gain of 1.1% from global bonds.

In terms of regional performance, all regions returned negative: Europe (-11.4%), North America (-5.0%) and Asia (-3.4%). Emerging markets also lost 3.2% for the month.

Focusing on sector performance, all sectors posted negative monthly returns that office (-12.4%), residential (-8.1%) and healthcare (-7.6%) as bottom performers while data centres (-24 bps) and self-storage (-79 bps) with relatively limited but still negative return in March.

At the end of March, **the FEN Developed Index** totalled **375** constituents, representing a free float market capitalisation of around **EUR 1.41 trillion** and **the FEN Emerging Index** totalled **128** constituents, representing a free float market capitalisation of around **EUR 123 billion**.

## 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. As of 31/03/2023, the benchmark lost 4.2% (m-o-m) and brought the YTD return to 12.9%. The benchmark now has a total of 28 constituents from 11 different countries in Developed Europe (17 out of the UK) and an aggregated full market cap of **EUR 41.33 million** (31/03/2023). A high-level computation can be found in the relevant section (page 6).

#### 2023-Q1 Quarterly Review

During the Q1-2023 quarterly review, there were two additions and three deletions in the Developed index, whereby one company was added in, and three companies were deleted from the Emerging index. The changes were effective on March 20 and represented a net value of EUR -1,009 million in free float market cap to the global index. The details are given in the related sections. The next index review will take place at the end of May, and the results will be published on June 2.

#### Highlights of the Month

At the latest meeting in March, the ECB raised the three key ECB interest rates by 50 basis points (the main refinancing operations stands at 3.50%) and stated that future decisions will depend on how inflation will develop and how well past rate hikes tame inflation. Although energy prices dropped sharply, pressures keeping prices high are coming from food. Indeed, inflation in the Euro area is expected to be 6.9% in March (down from 9.2% in December), with the highest annual rate of food, alcohol&tobacco at 15.4% vs -0.9% by energy.

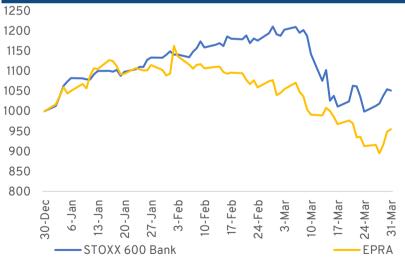
The recent emergence of financial market tensions implies additional uncertainty for the outlook for inflation and economic growth. The ECB iterated its confidence in the euro area banking sector, which shows stronger capital and liquidity positions than in 2008 and emphasised the ECB's policy toolkit is fully equipped to provide liquidity support to the euro area financial system if needed. On the other hand, there are some risks relating to a further worsening of broader credit conditions and to a deterioration of confidence, which requires caution.

# FTSE EPRA Nareit Global Index Total Return

		Mar-	YTD	1 yr	3	5	10
% Total Returns (EUR)		23			yrs*	yrs*	yrs*
Global Real Estate		-5.4	-0.7	-18.7	7.9	4.3	5.1
Global Equities (FTSE)		0.0	5.4	-3.1	16.7	6.8	8.9
Global Bonds (JP Morgan)		1.1	1.4	-6.8	-5.0	1.8	2.2
Europe Real Estate	•	-11.4	-4.5	-36.2	-4.5	-4.4	3.3
Europe Equities (FTSE)		0.0	8.5	5.2	15.0	6.8	7.5
Europe Bonds (JP Morgan)	•	0.0	0.9	-10.7	-5.8	0.3	2.7
Asia Real Estate	•	-3.4	-3.1	-9.3	4.8	1.7	2.3
Asia Equities (FTSE)	•	-0.5	3.5	0.5	12.6	7.0	9.1
Asia Bonds (JP Morgan)	•	-0.6	1.2	0.4	-1.4	2.4	2.7
North America Real Estate	•	-5.0	0.9	-17.7	12.4	7.8	6.9
NA Equities (FTSE)		0.9	6.0	-6.3	18.7	13.8	13.8
NA Bonds (JP Morgan)		0.3	1.6	-2.4	-3.9	3.5	2.7
Emerging Real Estate	•	-3.2	-4.2	-14.4	-4.5	-5.4	0.6
Emerging Equities (FTSE)		0.1	1.5	-8.0	9.6	3.0	4.5
Emerging Bonds (JP Morgan		-1.1	0.8	-4.0	0.6	2.3	3.5

(\*) Annualised.

# Fig. 1. STOXX 600 Bank vs FEN Developed Europe Total Return



*Source: EPRA Research, Bloomberg (as of 31/03/2023). Base : 30/12/2022=1000* 

European Public Real Estate Association Square de Meeus, 23 1000 Brussels, Belgium **T** +32 (0) 2739 1010 **F** +32 (0) 2739 1020 W www.epra.com E info@epra.com



There is also a consensus on no major specific instances that pose large risks to European banks favouring with their solid balance sheets and profitability. After the GFC, regulations have been strengthened to ensure that the regulatory framework addresses any outstanding challenges to financial stability. However, it is crucial to monitor liquidity and volatility in the market, and also to be more cautious on risky assets due to the recent interest rate hikes and tightening credit conditions over the forthcoming period.

The ECB highlighted the growing role of real estate investment funds (REIFs) since the outlook for commercial real estate (CRE) markets has deteriorated sharply, in terms of stability and liquidity risks. Coupling with overvaluation of the CRE markets since the pandemic, investors' concerns increased which requires price correction in the market. It is emphasis that REIFs might be subject to a common and comprehensive policy framework to reduce the liquidity mismatch and risks to financial stability, including increasing the share of liquid assets, longer minimum holding periods, lower redemption frequencies, longer notice and settlement periods. more frequent valuations.

The FEN Developed Europe Index saw a sharp decline and lost 11.4% during March, bringing the YTD return to -4.5%. Focusing on sector performances, all sectors posted negative monthly returns, self-storage (-4.3%) and Industrial (-5.9%) were top performers while office (-11.0%), retail (-11.1%) and residential (-20.8%) were bottom performers with higher losses for the month. Self-storage (4.0%) and industrial (2.7%) are only sectors providing positive YTD returns, Based on cumulative returns (since 19/02/2020), self-storage (5.7%) is still the only sector trading above its pre-Covid19 level, while residential (-54.3%) continued to loss momentum.

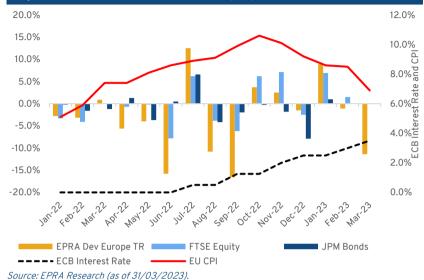
In terms of P/D to NAV figures, self-storage is trading with 7.3% premium to NAV and EU average stands at -44.7% in March, Focusing on 5-vr average, self-storage (36.7%), healthcare (22.3%) and industrial (13.1%) are trading with premiums and EU average stands at -18.5%.

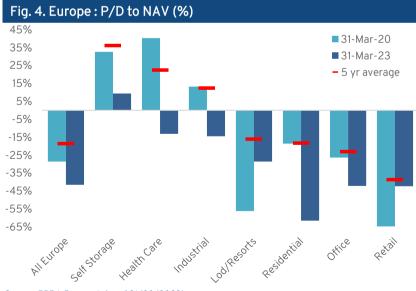


source: EPRA Research (as of 31/03/2023)

European Public Real Estate Association

Square de Meeus, 23 1000 Brussels, Belgium Fig. 3 Economic indicators vs LRE, Equity and Bonds



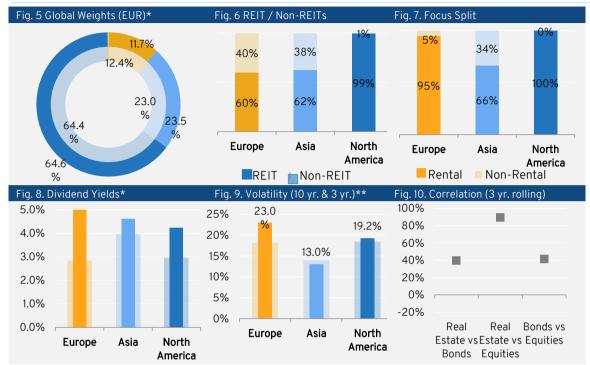


Source: EPRA Research (as of 31/03/2023).

**T** +32 (0) 2739 1010 F +32(0)27391020

W www.epra.com E info@epra.com





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

FTSE EPRA Nareit Developed Europe - Country Indices								
% Total Returns	Mar-23	YTD	1 yr	3 yrs*	5 yrs*	10 yrs*		
UK (GBP)	-8.0	-1.4	-31.0	0.1	-3.0	3.4		
France (EUR)	-9.6	1.5	-11.2	2.9	-3.4	2.6		
Netherlands (EUR)	-14.4	1.2	-24.3	3.7	-17.0	-6.7		
Germany (EUR)	-26.8	-19.7	-56.6	-21.2	-12.8	2.1		
Sweden (SEK)	-11.1	-5.7	-40.0	-1.5	5.8	12.0		
FTSE EPRA Nareit A	sia - Cou <mark>nt</mark> i	ry Indice	S					
Hong Kong (HKD)	0.6	-0.6	-0.6	4.3	-1.7	1.6		
Japan (JPY)	-2.8	-2.0	-5.7	8.1	3.2	2.1		
Australia (AUD)	-6.4	-1.8	-10.6	12.5	2.8	6.6		
Singapore (SGD)	-0.2	3.2	-7.0	7.3	3.4	4.4		
South Korea (KRW)	-3.8	-4.0	0.0	0.0	0.0	0.0		
FTSE EPRA Nareit Developed North America - Country Indices								
United States (USD)	-2.5	2.6	-19.5	11.9	5.2	5.4		
Canada (CAD)	-5.1	3.9	-16.2	10.7	4.1	5.0		

European Public Real Estate Association Square de Meeus, 23 1000 Brussels, Belgium CompanySectorCountryProLogis USAIndustrialUSAEquinixData CentersUSAPublic Storage, Inc.Self-StorageUSARealty Income Corp.RetailUSA

FTSE EPRA Nareit Developed Index – Top 10 Constituents

Simon Property Group, Inc.	Retail	USA	•	-6.8%			
Welltower	Healthcare	USA	•	-3.3%			
Vici Properties Inc	Specialty	USA	▼	-1.6%			
Digital Realty Trust	Data Centers	USA	•	-4.5%			
AvalonBay Communities, Inc.	Residential	USA	•	-1.6%			
Equity Residential Properties Trust	Residential	USA	▼	-3.0%			
FTSE EPRA Nareit Developed Index – Top 10 Performers							
Company	Sector	Country	Tot	al Return			
eenipan,							
Ichigo Office REIT Investment Corp.	Office	JA	<b>A</b>	9.3%			
		,					
Ichigo Office REIT Investment Corp.	Office	JA		9.3%			
Ichigo Office REIT Investment Corp. Intershop Holding	Office Diversified	JA SWIT		9.3% 8.8%			
Ichigo Office REIT Investment Corp. Intershop Holding Life Storage	Office Diversified Self-Storage	JA SWIT USA		9.3% 8.8% 8.8%			
Ichigo Office REIT Investment Corp. Intershop Holding Life Storage Sino Land	Office Diversified Self-Storage Diversified	JA SWIT USA HK		9.3% 8.8% 8.8% 7.1%			
Ichigo Office REIT Investment Corp. Intershop Holding Life Storage Sino Land Getty Realty Corp.	Office Diversified Self-Storage Diversified Retail	JA SWIT USA HK USA		9.3% 8.8% 8.8% 7.1% 6.2%			

nupletice comm		Tust		Diver	Sincu		01	-	1.1 70
Dev. Europe:Total Re	eturn	Weekly T	otal Retu	rn by Sect	or		YTD	Ukraine war	Covid-19
	Mar-23	3-Mar	10-Mar	17-Mar	24-Mar	31-Mar	Mar-23	23-Feb-22	19-Feb-20
Developed Europe	-11.4%	-0.4%	-6.1%	-2.4%	-5.6%	4.6%	-4.5%	-34.2%	-39.7%
Self-Storage	-4.3%	-1.5%	-3.4%	3.3%	-5.5%	4.3%	4.0%	-17.8%	5.7%
Industrial	-5.9%	-0.9%	-5.3%	0.0%	-3.5%	5.2%	2.7%	-35.8%	-11.4%
Healthcare	-6.5%	-1.5%	-3.5%	1.6%	-3.7%	2.2%	-5.2%	-21.9%	-33.9%
Diversified	-9.2%	0.5%	-4.9%	-2.5%	-4.9%	4.7%	-3.8%	-27.7%	-37.7%
Office	-11.0%	0.2%	-5.8%	-2.9%	-5.4%	4.7%	-2.0%	-21.5%	-39.2%
Retail	-11.1%	1.5%	-4.3%	-3.5%	-7.4%	5.2%	-0.1%	-18.6%	-42.7%
Lodging/Resorts	-10.3%	-1.1%	-4.2%	-4.9%	-4.7%	4.5%	9.7%	-13.4%	-44.4%
Residential	-20.8%	-2.5%	-9.9%	-5.4%	-7.6%	3.6%	-15.5%	-53.5%	-54.3%

Diversified

Diversified

JA

SL

Source: EPRA Research. Data is compiled from the FEN Index series (as of March 31, 2023).

**T** +32 (0) 2739 1010 **F** +32 (0) 2739 1020

Sekisui House

Mapletree Commercial Trust

W www.epra.com E info@epra.com V

Total Return

1.8%

5.3%

2.1%

-0.6%

4.8%

47%



#### FTSE EPRA Nareit Developed Europe Index

The FEN Developed Europe Index lost 11.4% during March. European bonds (-2 bps) and equities (-1 bps) also returned negative. All country indexes returned negative and Germany (-26.8%) was bottom performer for the month.

During the quarterly review, *Argan* (France, REIT, Industrial), and *DIC Asset AG* (Germany, Non-REIT, Industrial/Office) were added in, and Nextensa (Belgium) was deleted from the index. Besides, *Shurgard Self-Storage* (Belgium) was reclassified as REIT.

*Home REIT* (UK) was deleted from the index, following prolonged share suspension. *Shaftesbury* (UK) was deleted from the index, after a merger with *Capital&Countries Properties* (UK, renamed as *Shaftesbursy Capital*) which remained in the index with an increased shares in issue total from 851,274,235 to 1,815,264,619 and a decreased investability weighting from 86.29% to 74.72%.

**Sector Performance:** All sectors returned negative: Self-storage (-4.3%), Industrial (-5.9%), Healthcare (-6.5%).

**Performance of top 3 constituents:** Intershop Holding (8.8%, Switzerland, Diversified), ESP Empiric Student Property (5.4%, UK, Residential), Mobimo Holding AG (63 bps, Switzerland, Diversified).

<u>Developed Europe</u> representing a free float MCap of around EUR 165 billion with 109 constituents

#### FTSE EPRA Nareit Developed Asia Index

The FEN Developed Asia Index lost 3.4%. Asian bonds and equities also posted negative returns 64 bps and 49 bps, respectively.

Hong Kong (61 bps) index posted lower but positive return while Singapore (-16 bps), Japan (-2.8%), South Korea (-3.8%) and Australia (-6.4%) indexes posted negative returns in Asia (in local currencies).

During the Q1-2023 index review, there were no addition or deletion in Asia index.

*Start Proceed Investment* (Japan) was reclassified from Diversified to Residential.

**Sector Performance**: All sectors returned negative: Industrial (-1.7%), Diversified (-2.9%) and Residential (-3.3%) were top performers.

**Performance of top 3 constituents:** Ichigo Office REIT Investment Corp. (9.3%, Japan, Office), Sino Land (7.1%, Hong Kong, Diversified), Wharf Real Estate Investment (4.9%, J Hong Kong, Diversified).

#### FTSE EPRA Nareit North America Index

The FEN North America Index returned a negative 5.0%, compared to gains of 90 bps from equities and 35 bps from bonds.

Both the US index (-2.5%) and Canada (-5.1%) indexes returned negative for the month (in local currencies).

*Equity Commonwealth* (USA) and *Orion Office REIT* (USA) were deleted from the index, during quarterly review.

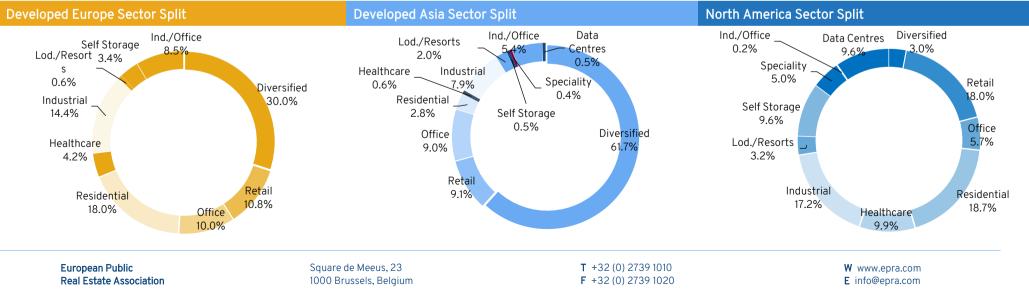
Following the completion of the merger with iStar Inc (USA, non-constituents), *Safehold Inc* (USA, constituent) which remained in the index with an increased shares in issue total from 61,941,758 to 75,206,452 and an increased investability weighting from 43.14% to 52.43%.

**Sector Performance:** All sectors returned negative: Data centres (-30 bps), Self-storage (-49 bps) and Industrial (-1.1%) were top performers.

**Performance of top 3 constituents:** Life Storage (8.8%, USA, Self-Storage), Getty Realty Corp. (6.2%, USA, Retail), Equinix (5.3%, USA, Data Centres).

 Developed Asia
 representing a free float MCap of around EUR 331
 Developed North America
 representing a free float MCap of around EUR

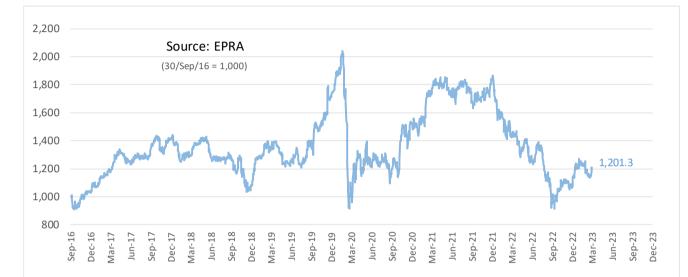
 billion with 136 constituents
 910 billion with 128 constituents
 910 billion with 128 constituents



5



# EPRA Developers Research Benchmark



Historical Performance	Last Month	1 Year	3 Years	5 Years
Total Return	-4.1%	-15.6%	12.7%	-8.4%
Total Return (Annualized)		-15.6%	4.2%	-1.7%

Return	3 Months	6 Months	Year to Date	5 Years
Total Return	12.9%	24.0%	12.9%	-8.4%
Maximum Return	4.7%	6.3%	4.7%	11.6%
Minimum Return	-5.4%	-5.4%	-5.4%	-13.2%
Mean Return (Annualized)	108.0%	94.2%	108.0%	4.6%
Maximum Drawdown	-10.8%	-10.8%	-10.8%	-55.3%
Maximum Drawdown Length	36	36	36	690

Risk	3 Months	6 Months	Year to Date	5 Years
Standard Deviation (Annualized)	26.9%	29.2%	26.9%	31.5%
Downside Risk (Annualized)	18.7%	19.3%	18.7%	22.2%
Kurtosis	1.63	1.24	1.63	6.60
Skewness	-0.01	0.43	-0.01	0.08
Semivariance (Annualized)	25.7%	25.5%	25.7%	31.4%
VaR (ex-post)	-2.27	-2.50	-2.27	-2.98
Risk-Adjusted Performance	3 Months	6 Months	Year to Date	5 Years
Sharpe Ratio	2.47	2.01	2.47	0.11

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

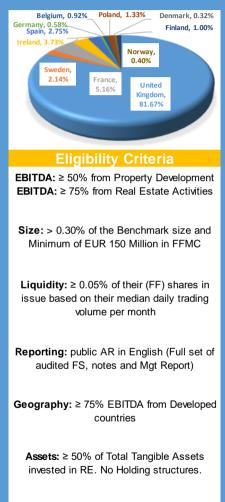
### **Key Features**

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 6



	mark		S Researd 31 March 20	EPRA Developers	
	Currency	Country	Weight	ISIN	Constituent
Belgium, 0.92% Poland, 1.33% Germany, 0.58% Spain, 2.75%	GBp	UK	14.70%	GB0000811801	BARRATT DEV
Spain, 2.75% Ireland, 3.73%	GBp	UK	13.75%	GB00BLJNXL82	BERKELEY GROUP
Norw 0.40	GBp	UK	13.53%	GB0006825383	PERSIMMON
Sweden, 2.14% France,	GBp	UK	12.84%	GB0008782301	TAYLOR WIMPEY PL
5.16% U	GBp	UK	9.65%	GB0001859296	VISTRY GROUP PLC
8	GBp	UK	8.77%	GB0000904986	BELLWAY PLC
	GBp	UK	4.65%	GB00BG11K365	REDROW PLC
	GBp	UK	1.66%	GB00B8VZXT93	CREST NICHOLS
Eligibility Cri	GBp	UK	0.74%	GB00BRKD9Z53	MJ GLEESON PLC
EBITDA: ≥ 50% from Proper	GBp	UK	0.69%	GB00BD6RF223	WATKIN JONES PLC
EBITDA: ≥ 75% from Real E	GBp	UK	0.69%	GB00BYZJ7G42	HARWORTH GROUP P
	EUR	Finland	1.00%	FI0009800643	YIT OYJ
Size: > 0.30% of the Bench	EUR	Ireland	1.85%	IE00BD6JX574	GLENVEAGH PROPER
Minimum of EUR 150 Mill	GBp	Ireland	1.87%	IE00BWY4ZF18	CAIRN HOMES
	EUR	France	2.56%	FR0010112524	NEXITY
Liquidity: ≥ 0.05% of their	EUR	France	1.19%	FR0004007813	KAUFMAN & BROAD
issue based on their media	EUR	France	1.41%	FR0000033219	ALTAREA
volume per mor	EUR	Spain	0.83%	ES0105251005	NEINOR HOMES SA
	EUR	Spain	0.39%	ES0105287009	AEDAS HOMES SA
Reporting: public AR in Eng	EUR	Spain	1.53%	ES0105122024	METROVACESA SA
audited FS, notes and M	SEK	Sweden	2.14%	SE0000806994	JM AB
	PLN	Poland	0.76%	PLLCCRP00017	DEVELIA SA
Geography: ≥ 75% EBITDA	PLN	Poland	0.57%	PLDMDVL00012	DOMDEV
countries	EUR	Belgium	0.48%	BE0003599108	IMMOBEL
	EUR	Belgium	0.44%	BE0003837540	ATENOR
Assets: ≥ 50% of Total Ta	EUR	Germany	0.58%	DE000A2NBX80	INSTONE REAL EST
invested in RE. No Holdin	NOK	Norway	0.40%	NO0010612450	SELVAAG BOLIG AS
	DKK	Denmark	0.32%	DK0061412855	HUSCIET A/S

Developers Sub-Indexes: Risk and Return	3 Months	6 Months	Year to Date	5 Years
Residential Developers: Total Return	12.66%	22.59%	12.66%	-10.59%
Residential Developers: Standard Deviation (Annualized)	27.76%	30.04%	27.76%	32.54%
Liquid Developers: Total Return	13.01%	22.01%	13.01%	-9.56%
Liquid Developers: Standard Deviation (Annualized)	26.75%	29.15%	26.75%	32.06%



Eligible Markets: Premium and main trading segments of official stock exchanges.

Data Availabilty: Monthly computations. Perfomance figures available on this report. Raw data accessible on demand at research@epra.com

7



8



#### European Public Real Estate Association

Square de Meeus, 23 1000 Brussels, Belgium **T** +32 (0) 2739 1010 **F** +32 (0) 2739 1020 W www.epra.com E info@epra.com