BofA SECURITIES

European Rates Watch

EGB Q1 Supply: to FOMO or not to FOMO

Demand keeps up with heavy supply, so far

The start of the Eurozone Government Bond supply season is seeing relatively little surprises both qualitatively and quantitatively. At the margin, relative to 2023, this second week of January is seeing a more meaningful acceleration of EGB supply.

In terms of net risk delivery (EGB gross issuance netted of private/ECB reinvestment and rebalancing flows, expressed in DV01 terms) this week is as big as it gets (see Exhibit 1).

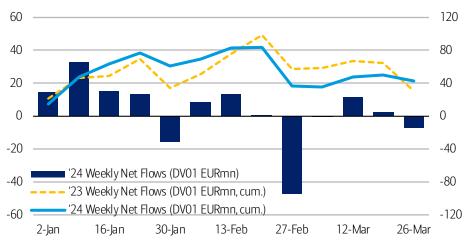
Net supply should decline, but it should remain at elevated levels most weeks up to mid Feb. Interestingly, month-end rebalancing flows towards EGBs will be relatively muted over January-February but will pick up aggressively at the end of February.

The window for a potential rates selloff is now until mid-Feb, from a supply perspective.

That said, extrapolations from syndications since the start of the year indicate healthy demand from private investors – this is not a complete surprise (see Demand section in Global Rates Year Ahead, 19 Nov 2023). It is still too early to tell, and the statistics of investor/geography allocations will add nuance, but this sell-off window may close early.

Exhibit 1: Supply net of "systematic" EGB flows (gross ECB flows + private reinvestments & index extensions) - expressed in DV01 terms over Q1

This weak marks the peak of net supply in DV01 terms. Feb-Mar month-end is particularly supportive



Source: BofA Global Research own calculations and ECB. We aggregate the maximum likely gross reinvestment profile of private investors and ECB into/out of EGBs. We include reinvestments of coupon flows, bond repayments, OE/OT dynamics as well as private month-end bond index rebalancings. We look at data at a daily frequency and transform flow in DV01-equivalent terms (depending on assumed duration of assets benefitting from reinvestment flows). Numbers are expressed in EUR millions

BofA GLOBAL RESEARCH

(continued inside...)

Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying these ideas or strategies.

Bof A Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Refer to important disclosures on page 8 to 9.

12644180

Timestamp: 11 January 2024 01:30AM EST

11 January 2024

Rates Research Europe

European Rates Research MLI (UK)

Erion Satko Rates Strategist BofASE (France) erjon.satko@bofa.com

Sphia Salim Rates Strategist MLI (UK) sphia.salim@bofa.com

See Team Page for List of Analysts

FOMO- fear of missing out

A lot of supply but not surprising

Since the start of the year Euro Government Bond markets saw the usual frantic start with plenty of national treasuries looking to secure new benchmark launches. Over the first two weeks this year we have had five announcements (see Exhibit 2, bold 2024 entries indicate announced syndications). Five is also the number of syndications we had over this period in 2023 (although this year there is more concentration of operations during the second week). Qualitatively, the weighted average maturity is marginally lower given the preference for 10y lines instead of the 15y/20y in a couple of cases.

For January, we still expect 10y lines from Austria and Greece, perhaps Finland too. France may more likely add a 30y.

In February and March, activity gradually should slow down, as per usual. However, maturities tend to be significantly high in February and, to a lesser extent, March.

Exhibit 2	2: EGB syndications,	January
The 10y	sector dominates in J	anuary

Jan	2020	2021	2022	2023	2024p
AS	10y	10y	7y	10y	10y
BE	10y	10y	10y	10y	10y
FI			20y	15y	10y/30y
FR	30y	50y	i30y		30y
GE					
GR	15y	10y	10y	10y	10y
IR	15y	10y	10y	g20y	10y
IT	301/	15v	301/	20v	7v 30v

Source: National treasuries and own assumptions. 2024 highlighted has happened. Rest is assumptions

10y

20y

10y

14y

10y

10y

10_v

NLPO

SP

10y

Exhibit 3: EGB syndications, February ...>15y picks up in February...

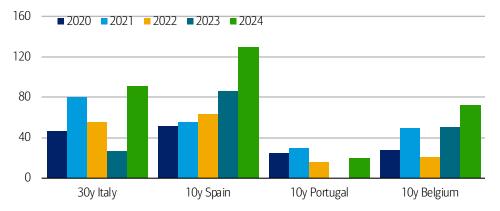
Feb AS	2020	2021	2022	2023	2024
BE FI	20y 15y	50y 30y	30y	30y	20y
FR GE GR	1Эу	30y		31y 30y	30y
IR IT NL	15y	10y/i30y	i10y	30y	20y 10y*
PO SP	30y	30y 50y	30y	16y	20y

Source: National treasuries and own assumptions *DDA. 2024 has our assumptions

Despite the concentration of syndications this week, order books have been large. Seeing significant bids at syndications is not unusual but a comparison of the book sizes in 2024 EGB syndications to those of prior years suggests particularly healthy demand (Exhibit 5). Another indication of that is the tightening in spreads and flattening in longend curves during the week, despite "peak" issuance.

This supports our call that 2024 supply, even if higher than 2023, can be well absorbed (see Demand section Global Rates Year Ahead, 19 November 2023). Real money investors (esp. those different from domestic funds) need to keep rebalancing towards EUR debt in order to have portfolio allocations more resemblant to pre-QE equivalents.

Exhibit 5: Bidding volume at syndications for selected countries at the start of the year 2024 is so far seeing sizeable bidding activity from private investors



Source: Bloomberg, Numbers in EUR billions

BofA GLOBAL RESEARCH

Exhibit 4: EGB syndications, March

...continues in March

Mar	2020	2021	2022	2023	2024p
AS BE FI	3y, 30y 7y		10y		5y
FR		23y	20		>15y g
GE GR		30y	30y	5у	15y
IR IT NL PO SP		25y	8y	i5y	50y

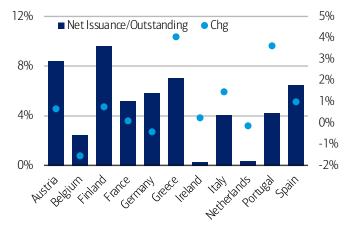
Source: National treasuries and own assumptions. 2024 has our assumptions

BofA GLOBAL RESEARCH

All in all, the current data flow on the issuance front, keeps us comfortable with our gross issuance assumptions split by month. Auctions should account for c. €100bn in January, February and March while total syndication volumes should settle at c. €50bn, €30bn and €27bn over those three months respectively. As can be seen in Exhibit 7, changes relative to 2023 are relatively small when it comes to gross supply volumes.

Exhibit 6: 2024 net-net issuance and change rebased by outstanding

Because of QT, most countries see (marginal) net issuance increases



Source: National treasuries, Haver, ECB and own calcs

BofA GLOBAL RESEARCH

Exhibit 7: Month/country breakdown of expected EGB gross supply Gross supply of EGBs is largely comparable to 2023, despite rise in redemptions

2024	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	Nov	Dec	Tot	Chg
Austria*	9	2	2	9	3	2	2	2	2	11	2	1	47	-3.0
Belgium	6	5	4	4	4	4	3	4	2	3	0	0	41	-3.3
Finland	5	0	2	5	1	2	0	3	2	2	1	0	22	1.0
France**	27	32	31	25	24	28	26	22	28	28	27	5	305	1.9
Germany	29	26	20	33	19	26	28	23	22	27	18	8	275	-16.4
Greece	3	0	2	0	0	0	3	0	0	0	0	0	10	-1.5
Ireland	4	0	1	0	0	1	0	0	1	0	0	0	8	1.0
Italy	32	31	38	39	32	38	27	15	30	40	19	7	350	7.6
Holland	5	7	4	6	2	3	2	0	4	6	0	0	40	-6.3
Portugal	4	6	1	0	0	0	1	0	1	0	0	0	14	3.0
Spain	26	19	16	15	15	26	15	7	15	17	12	4	186	5.1
Tot	149	129	121	136	99	131	107	77	108	135	80	25	1298	4.8
Chg	4.2	-4.8	-5.6	5.4	-6.7	4.1	4.5	-6.4	1.4	7.8	-3.0	4.1	4.8	

Source: National treasuries, own assumptions/calculations. Numbers in EUR bn. *2024 and 2023 assumptions include DIP operations. ** we assume €20bn in buybacks over 2024

BofA GLOBAL RESEARCH

In net terms (after incl. coupons, redemptions, buybacks, ECB QT), EGB issuance goes up by c. €44bn relative to 2023. The absolute value of these flows (c. €550bn) is very high but the year-on-year rate of change relatively small. Seasonality-wise, the increase in net-net issuance this year is skewed towards H2 (due to ECB QT & maturity schedule).

Exhibit 8: Projected supply net of coupons, redemptions, buybacks and QE

Monthly supply through the year

2024	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Chg.
Austria	8	2	1	9	2	2	-6	2	2	3	2	1	28	2
Belgium	6	5	1	4	4	-10	3	4	2	-6	0	0	14	-8
Finland	5	0	2	1	1	2	0	3	-1	2	1	0	15	1
France	27	4	-2	15	-16	28	10	22	28	22	-3	5	140	3
Germany	17	9	6	16	2	13	24	7	11	12	18	-2	133	-10
Greece	3	0	2	-2	0	0	3	0	0	0	0	0	7	4
Ireland	4	0	-5	0	-1	1	0	0	1	0	0	0	0	0
Italy	6	17	11	16	3	34	11	2	-2	23	2	-24	98	35
Netherland														
s	-8	7	4	6	2	3	-9	0	4	6	0	0	15	-5
Portugal	4	1	1	-1	0	0	1	0	1	0	0	0	7	6
Spain	11	19	16	-3	0	26	-3	7	15	-3	3	3	92	14
Total	83	64	36	62	-2	100	33	47	62	59	23	-17	551	44
Chg vs '23	1	-37	-8	-4	11	18	8	21	9	64	-21	-18		

Source: BofA Global Research. Note: Numbers are expressed in EUR bn.

BofA GLOBAL RESEARCH

Below we provide a more granular detail of EGB auctions and maturities (they include portion held by Eurosystem). The auction schedule is an extrapolation from latest plans.

Exhibit 9: Euro-area government bond auctions (incl. fixed coupons, IL, CTZ, CCT), coupons and redemptions (only EUR) for Q1 2024 Flows through the quarter (auctions only)

Auctions	Date	Ctry	Amt	Sector(s)		Date	Country	Amount	Type
	3-Jan	GE	4.5	BKO 3.1% 12/25	Wk 1	1-Jan	IT	0.3	<u> </u>
	4-Jan	FR	9.5-11.5(e)	>8y OAT		4-Jan	GE	4.8	Č
	4-Jan	SP	5.5-6.5(e)	SPGB/SPGB€I		4-Jan	GE	12.8	R
Wk2	9-Jan	AS	1.0-2.0(e)	RAGB					



Exhibit 9: Euro-area government bond auctions (incl. fixed coupons, IL, CTZ, CCT), coupons and redemptions (only EUR) for Q1 2024 Flows through the quarter (auctions only)

Sylan Mile	Auctions	Date	Ctry	Amt	Sector(s)		Date	Country	Amount	Туре
194m PO										
11 20		10-Jan								
17-jam GF		11-Jan			3y BTPS					
17-Jam	Wk3					Wk3				
Right FR								NE		C
Windle				0.1-0.3(e)						
WK 4		18-Jan	FR	9.5-11.5(e)	2-8y OAT/OAT€		15-Jan	NE	15.4	R
23-jun NE 15.25(c) DSL DSL 24-jun PO 0.75 1.25(c) PGB (potential suction) 24-jun PO 0.75 1.25(c) PGB (potential suction) PGB (pGB (pGB (pGB (pGB (pGB (pGB (pGB (p		18-Jan	SP	5.5-6.5(e)	SPGB					
24-jan CF	Wk 4	23-Jan	GE	1.5-2.0(e)	Green Bond	Wk 4	26-Jan	AS	0.2	С
Peta Pote Peta		23-Jan	NE	1.5-2.5(e)	DSL					
		24-Jan	GE	1.5	DBR 1% 5/38					
WK 5		24-Jan	PO	0.75-1.25(e)	PGB (potential auction)					
30-jan GE 50-0		25-Jan	ΙΤ	3.0-5.0(e)	BTPShort, BTP€I					
30,hn Tr 70,90(e) 5,918TS,01764 31,34n 57 37,4 C C C C C C C C C	Wk 5	29-Jan	BE	2.0-3.0(e)	BGB	Wk 5	30-Jan	GR	1.0	C
30-3m			GE	5.0	BKO 3/26		30-Jan	ΙΤ	14.9	R
								SP		
			GE	4.5			31-Jan			
WK5		,		up to €84.1-101.3(e)						
	Wk 5	1-Feb			>8y OAT	Wk 5	1-Feb	IT	3.8	С
Wk6			SP				1-Feb	IT	0.3	R
F-Feb GE		2-Feb	BE	0.5(e)	ORI Facility					
F-Feb GE	Wk 6	6-Feb	AS	1.0-2.0(e)	RAGB	Wk6				
Wk7 13-Feb GE		7-Feb	GE		DBR 2.4% 11/30					
13-Feb IT		8-Feb	FI	0.4	RFGB ORI					
13-Feb IT	Wk 7	13-Feb	GE	4.0	OBL 4/29	Wk7	15-Feb	GE	1.0	С
13-Feb NE										
14-Feb GE										
14-Feb PO 0.75-1.25(e) PGB (potential auction) 15-Feb SP 6.0 R 14-Feb GR 0.1-0.3(e) GGB 15-Feb SP 6.0 R 15-Feb SP 5.5-6.5(e) SPGB Wk8 19-Feb SP 5.5-6.5(e) SPGB Wk8 19-Feb BE 2.0-3.0(e) BGB Wk8 18-Feb IR 0.2 C 20-Feb FI 1.0-1.5 RFGB 20-Feb AS 0.4 C 20-Feb GE 5.0 BKG 3/26 21-Feb GE 4.5 DBR 2/34 23-Feb IT 3.0-5.0(e) BTPShort, BTP6 Wk9 27-Feb GE 1.5-2.0(e) Green Bond Wk9 25-Feb FR 31.0 R 28-Feb GE 1.0 DBR 1%5/38 28-Feb GE 1.0 DBR 1%5/38 28-Feb FR 0.4 C 28-Feb GE 1.0 DBR 1%5/38 28-Feb FR 0.7-5-1.25(e) Sy BTPS, Toy BTPS, CCTeu 28-Feb PO 0.75-1.25(e) PGB (potential auction) Wk9 1-Mar BE 0.5(e) OR Facility Wk9 1-Mar IT 7.9 C 28-Feb FR 3.1.0 R Wk10 5-Mar AS 1.0-2.0(e) RAGB Wk10 5-Mar GE 4.0 OBL 4/29 7-Mar FR 9.5-11.5(e) SPGB/SPGB6 Wk11 12-Mar GE 4.5 BKO 3/26 Wk11 12-Mar GR 0.2 C 12-Mar NE 1.5-2.5(e) DSL 13-Mar IR 0.6 C 13-Mar GE 4.5 BKO 3/26 Wk11 12-Mar GR 0.2 C 13-Mar GE 4.5 BKO 3/26 Wk11 12-Mar GR 0.2 C 13-Mar GE 4.5 BKO 3/26 Wk11 12-Mar GR 0.2 C 13-Mar GE 4.5 BKO 3/26 Wk11 12-Mar GR 0.2 C 13-Mar GE 4.5 BKO 3/26 Wk11 13-Mar IR 0.6 C 13-Mar GE 4.5 BKO 3/26 Wk11 13-Mar IR 0.6 C 13-Mar GE 4.5 BKO 3/26 Wk11 13-Mar IR 0.6 C 13-Mar FI 7.0-9.0(e) 3y BTPS, 7y BTPS, 10y BTPS 15-Mar IT 1.2 C 13-Mar FI 7.0-9.0(e) BGB Wk12 18-Mar IR 0.4 C 19-Mar FI 1.0-1.5 R-G6B 18-Mar IR 0.4 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 0.3 C Wk12 18-Mar GR 0.1-0.3(e) GGB 20-Mar GR 0.3 R										
14-Feb GR 01-03(e) GGB 15-Feb SP 6.0 R 15-Feb FR 9.5-11.5(e) 2-8y OAT/OATE 5-Feb SP 6.0 R 15-Feb SP 5.5-6.5(e) SPGB SPGB SPGB SPGB SPGB Wk8 19-Feb BE 2.0-3.0(e) BGGB Wk8 18-Feb R 0.2 C 20-Feb FI 1.0-1.5 RFGB 20-Feb AS 0.4 C 20-Feb GE 5.0 BKO 3/26 21-Feb GE 4.5 DBR 2/34 23-Feb IT 3.0-5.0(e) BTFShort, BTPEI Wk9 27-Feb GE 1.5-2.0(e) Green Bond Wk9 25-Feb FR 0.4 C 27-Feb NE 1.5-2.5(e) Green DSL 3.25% 01/44 25-Feb FR 31.0 R 28-Feb GE 1.0 DBR 1% 5/38 SPEPS 10/8 FR SPEPS 10/8 FPS 10/8										
15-Feb FR 95-11.5(e) 2-8y OAT/OATE SPGB										
No.				. ,						
20-Feb Fi 1.0-1.5 RFGB 20-Feb AS 0.4 C 20-Feb GE 5.0 BKO 37/24 23-Feb IT 3.0-5.0(e) BTPShort, BTPGI T 3.0-5.0(e) BTPS, BTP										
20-Feb FI 1.0-1.5 RFGB 20-Feb AS 0.4 C 20-Feb GE 5.0 BKO 3/24 21-Feb GE 4.5 DBR 2/34 23-Feb IT 3.0-5.0(e) BTPShort, BTPGI Freb FR 0.4 C 27-Feb NE 1.5-2.0(e) Green Bond Wk9 25-Feb FR 31.0 R 28-Feb GE 1.0 DBR 1/6/5/88 28-Feb IT 7.0-9.0(e) 5y BTPS, 10y BTPS, CCTeu 28-Feb PO 0.75-1.25(e) PGB (potential auction) Wk9 1-Mar IT 7.9 C RAGB Wk10 Freb FR S2.1 Raman	Wk 8	19-Fah	RF	2 N-3 N(a)	RGR	Wks	18-Fah	IR	0.2	ſ
20-Feb GE 5.0 BKO 3/26 21-Feb GE 4.5 DBR 2/34 23-Feb IT 3.0-5.0(e) BTPShort, BTPE Wk 9	WKO					WKO				
							20100	AS	0.4	C
Mk 9										
Wk 9 27-Feb 27-Feb 27-Feb NE 27-Feb NE 1.5-2.0(e) Green Bond Green Bond Green Bond Green Bond Green Bond Bond Bond Bond Bond Bond Bond Bon										
Part	WF 0					W/k Q	25-Fob	ED	0.4	C
28-Feb 28-Feb 28-Feb 28-Feb 17 (7.0-9.0(e) 28-Feb PO 1.0 (7.0-9.0(e) 5y BTPS, 10y BTPS, 10y BTPS, 10t BTP	WKS					WKJ				
28-Feb IT 7.0-9.0(e) 5y BTPS, 10y BTPS, CCTeu 28-Feb PO 0.75-1.25(e) PGB (potential auction) Total Feb €80.4 Wk 9 1-Mar BE 0.5(e) ORI Facility Wk 9 1-Mar IT 7.9 C Wk 10 5-Mar AS 1.0-2.0(e) RAGB Wk 10 Wk 10 RAGB Wk 10 Wk 10 RAGB Wk 10 Wk 10 RAGB Wk 10 RAGB Wk 10 Wk 10 RAGB RAGB Wk 10 RAGB RAGB RAGB RAGB RAGB RAGB RAGB RAGB							23100	110	31.0	11
78-Feb PO 0.75-1.25(e) PGB (potential auction) Wk 9 1-Mar BE 0.5(e) ORI Facility Wk 9 1-Mar 1T 7.9 C Wk 10 5-Mar 5-Mar AS 1.0-2.0(e) RAGB Wk 10 Wk 10 FR 4.0 OBL 4/29 AS 1.0-2.0(e) RAGB Wk 10 Wk 10 FR 9.5-11.5(e) SPGB/SPGB4 FR 9.5-11.5(e) SPGB/SPGB4 FR 9.5-11.5(e) SPGB/SPGB4 FR 9.5-11.5(e) SPGB/SPGB4 FR 9.2 C Wk 11 12-Mar GE 4.5 BKO 3/26 Wk 11 12-Mar GR 0.2 C Wk 12 12-Mar GR 0.2 C										
Wk 9 1-Mar BE 0.5(e) ORI Facility Wk 9 1-Mar IT 7.9 C Wk 10 5-Mar AS 1.0-2.0(e) RAGB Wk 10 Wk 10 5-Mar GE 4.0 OBL 4/29 7-Mar FR 9.5-11.5(e) >8y OAT 7-Mar SP 5.5-6.5(e) SPGB/SPGB€I Wk 11 12-Mar GR 0.2 C Wk 11 12-Mar GE 4.5 BKO 3/26 Wk 11 12-Mar GR 0.2 C 12-Mar NE 1.5-2.5(e) DSL 13-Mar IR 0.6 C 13-Mar GE 4.5 DBR 2/34 15-Mar AS 1.1 C 13-Mar GE 4.5 DBR 2/34 15-Mar IT 1.2 C 13-Mar FO 0.75-1.25(e) PGB (potential auction) 15-Mar IT 1.2 C Wk 12 18-Mar BE 2.0-3.0(e) BGB Wk 12 18-Mar <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										
Wk 9 1-Mar Location BE Location ORI Facility Wk 9 Location 1-Mar Location IT Location (IT 22.1) 7.9 R C 22.1 R Wk 10 5-Mar GE Address AS Location (IT 22.0) RAGB Mk 12 Wk 10 Wk 10 FAIL (IT Mar) FAIL (IT Mar) GE GE Address 4.0 OBL 4/29 7-Mar Sp OAT 7-Mar FR PR 9.5-11.5(e) >8y OAT 7-Mar Sp OAT FAIL (IT Mar) GR Sp OAT 9-5-11.5(e) SPGB/SPGB€I FAIL (IT Mar) GR GR GR GR 0.2 CP GR CAIL (IT Mar) GR GR GR 0.2 CP GR CAIL (IT Mar) GR GR 0.2 CP GR CAIL (IT Mar) GR GR 0.0 CP GR CAIL (IT Mar) GR GR 0.2 CP GR CAIL (IT Mar) GR GR 0.0 CP GR CAIL (IT Mar) GR GR 0.2 CP GR CAIL (IT Mar) GR GR 0.2 CP GR CAIL (IT Mar) GR GR 0.1 CP GR CAIL (IT Mar) GR GR		20100			1 Ob (potential adetion)			Total Feb	€ 80.4	
Wk 10 5-Mar AS 1.0-2.0(e) RAGB Wk 10 5-Mar GE 4.0 OBL 4/29 7-Mar FR 9.5-11.5(e) >8y OAT 7-Mar SP 5.5-6.5(e) SPGB/SPGB€I Wk 11 12-Mar GR 0.2 C 12-Mar NE 1.5-2.5(e) DSL 13-Mar IR 0.6 C 13-Mar GE 4.5 DBR 2/34 15-Mar AS 1.1 C 13-Mar IT 7.0-9.0(e) 3y BTPS, 7y BTPS, >10y BTPS 15-Mar IT 1.2 C 13-Mar PO 0.75-1.25(e) PGB (potential auction) 15-Mar GE 19.5 R Wk 12 18-Mar BE 2.0-3.0(e) BGB Wk 12 18-Mar IR 0.4 C 19-Mar FI 1.0-1.5 RFGB 18-Mar IR 8.0 R 20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR	Wk 9	1-Mar			ORI Facility	Wk 9	1-Mar			С
S-Mar GE							1-Mar	IT	22.1	R
7-Mar 7-Mar 7-Mar 7-Mar FR 5P 9.5-11.5(e) 5.5-6.5(e) >8y OAT 5.5-6.5(e) SPGB/SPGB€I SPGB/SPGBEI SPGB/SPGBEI <t< td=""><td>Wk 10</td><td></td><td></td><td></td><td></td><td>Wk 10</td><td></td><td></td><td></td><td></td></t<>	Wk 10					Wk 10				
7-Mar SP 5.5-6.5(e) SPGB/SPGB€I Wk 11 12-Mar GE 4.5 BKO 3/26 Wk 11 12-Mar GR 0.2 C 12-Mar NE 1.5-2.5(e) DSL 13-Mar IR 0.6 C 13-Mar GE 4.5 DBR 2/34 15-Mar AS 1.1 C 13-Mar IT 7.0-9.0(e) 3y BTPS, 7y BTPS, >10y BTPS 15-Mar IT 1.2 C 13-Mar PO 0.75-1.25(e) PGB (potential auction) 15-Mar GE 19.5 R Wk 12 18-Mar BE 2.0-3.0(e) BGB Wk 12 18-Mar IR 0.4 C 19-Mar FI 1.0-1.5 RFGB 18-Mar IR 8.0 R 20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR 0.3 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R										
Wk 11 12-Mar GE 4.5 BKO 3/26 Wk 11 12-Mar GR 0.2 C 12-Mar NE 1.5-2.5(e) DSL 13-Mar IR 0.6 C 13-Mar GE 4.5 DBR 2/34 15-Mar AS 1.1 C 13-Mar IT 7.0-9.0(e) 3y BTPS, 7y BTPS, >10y BTPS 15-Mar IT 1.2 C 13-Mar PO 0.75-1.25(e) PGB (potential auction) 15-Mar GE 19.5 R Wk 12 18-Mar BE 2.0-3.0(e) BGB Wk 12 18-Mar IR 0.4 C 19-Mar FI 1.0-1.5 RFGB 18-Mar IR 8.0 R 20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR 0.3 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R				. ,	3					
12-Mar NE 1.5-2.5(e) DSL 13-Mar IR 0.6 C 13-Mar GE 4.5 DBR 2/34 15-Mar AS 1.1 C 13-Mar IT 7.0-9.0(e) 3y BTPS, 7y BTPS, >10y BTPS 15-Mar IT 1.2 C 13-Mar PO 0.75-1.25(e) PGB (potential auction) 15-Mar GE 19.5 R Wk 12 18-Mar BE 2.0-3.0(e) BGB Wk 12 18-Mar IR 0.4 C 19-Mar FI 1.0-1.5 RFGB 18-Mar IR 8.0 R 20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR 0.3 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R	140 55						10.17		2.5	
13-Mar GE 4.5 DBR 2/34 15-Mar AS 1.1 C 13-Mar IT 7.0-9.0(e) 3y BTPS, 7y BTPS, >10y BTPS 15-Mar IT 1.2 C 13-Mar PO 0.75-1.25(e) PGB (potential auction) 15-Mar GE 19.5 R Wk 12 18-Mar BE 2.0-3.0(e) BGB Wk 12 18-Mar IR 0.4 C 19-Mar FI 1.0-1.5 RFGB 18-Mar IR 8.0 R 20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR 0.3 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R	WKII					Wk 11				
13-Mar IT 7.0-9.0(e) 3y BTPS, 7y BTPS, >10y BTPS 15-Mar IT 1.2 C 13-Mar PO 0.75-1.25(e) PGB (potential auction) 15-Mar GE 19.5 R										
13-Mar PO 0.75-1.25(e) PGB (potential auction) 15-Mar GE 19.5 R Wk 12 18-Mar BE 2.0-3.0(e) BGB Wk 12 18-Mar IR 0.4 C 19-Mar FI 1.0-1.5 RFGB 18-Mar IR 8.0 R 20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR 0.3 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R										
Wk 12 18-Mar BE 2.0-3.0(e) BGB Wk 12 18-Mar IR 0.4 C 19-Mar FI 1.0-1.5 RFGB 18-Mar IR 8.0 R 20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR 0.3 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R										
19-Mar FI 1.0-1.5 RFGB 18-Mar IR 8.0 R 20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR 0.3 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R					•					
20-Mar GE 1.0 DBR 0% 8/52 20-Mar GR 0.3 C 20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R	Wk 12			. ,		Wk 12				
20-Mar GR 0.1-0.3(e) GGB 20-Mar GR 1.3 R										
21-Mar FR 9.5-11.5(e) 2-8y OAT/OAT€							20-Mar	GR	1.3	R
		21-Mar	FR	9.5-11.5(e)	2-8y OAT/OAT€					

Exhibit 9: Euro-area government bond auctions (incl. fixed coupons, IL, CTZ, CCT), coupons and redemptions (only EUR) for Q1 2024 Flows through the quarter (auctions only)

Auctions	Date	Ctry	Amt	Sector(s)		Date	Country	Amount	Туре
	21-Mar	SP	5.5-6.5(e)	SPGB					
	22-Mar	ΙΤ	3.0-5.0(e)	BTPShort, BTP€I					
Wk 13	26-Mar	GE	1.5-2.0(e)	Green Bond	Wk 13	25-Mar	FR	34.0	R
	26-Mar	NE	1.5-2.5(e)	DSL		28-Mar	BE	3.8	C
	27-Mar	GE	3.0	DBR 2.4% 11/30					
	27-Mar	IT	7.0-9.0(e)	5y BTPS, 10y BTPS, CCTeu					
	27-Mar	PO	0.75-1.25(e)	PGB (potential auction)					
		Total Mar	up to €74.6-92.8(e)				Total Mar	€ 100.5	

Source: BofA Global Research estimates and national debt GE management agencies. Note: Numbers are expressed in EUR bn. In the leftmost column, C indicates a coupon payment, R a redemption

BofA GLOBAL RESEARCH



Exhibit 10: Common acronyms/abbreviations used in our reportsThis list is subject to change

ronym/Abbreviation	Definition	Acronym/Abbreviation	Definition
1H	First Half	IT	Italy
2H	Second Half	Jan	January
1Q	First Quarter	Jul	July
2Q	Second Quarter	Jun	June
3Q	Third Quarter	lhs	left-hand side
4Q	Fourth Quarter	m	month
ann	annualized	MA	Moving Average
APP	Asset Purchase Programme	Mar	March
Apr	April	MBM	Meeting-by-meeting
AS	Austria	mom	month-on-month
Aug	August	Mon	Monday
BdF	Banque de France (Bank of France)	MPC	Monetary Policy Committee
BE		MWh	Megawatt-hour
BEA	Belgium Russey of Economic Analysis	NGEU	NextGenerationEU
	Bureau of Economic Analysis		
BLS	Bank Lending Survey	NE	Netherlands
BoE	Bank of England	Nov	November
BofA	Bank of America	NRRP	National Recovery and Resilience Plan
Bol	Banca d'Italia (Bank of Italy)	NSA	Non-seasonally Adjusted
ВоЈ	Bank of Japan	OAT	Obligations assimilables du Trésor
BoS	Banco de España (Bank of Spain)	OBR	Office for Budget Responsibility
bp	basis point	Oct	October
BTP	Buoni Poliennali del Tesoro	OECD	Organisation for Economic Co-operation and Development
Buba	Bundesbank	ONS	Office for National Statistics
С	circa	р	preliminary/flash print
CA	Current Account	PBoC	People's Bank of China
CPI	Consumer Price Index	PEPP	Pandemic Emergency Purchase Programme
CSPP	Corporate Sector Purchase Programme	PMI	Purchasing Managers' Index
d	day	PSPP	Public Sector Purchase Programme
GE	Germany	PT	Portugal
	3		
Dec	December Debt oversign hills	QE	Quantitative Easing
DS	Debt sustainability	qoq	quarter-on-quarter
EA	Euro area	QT	Quantitative Tightening
EC	European Commission	RBA	Reserve Bank of Australia
ECB	European Central Bank	RBNZ	Reserve Bank of New Zealand
ECJ	European Court of Justice	rhs	right-hand side
EFSF	European Financial Stability Facility	RPI	Retail Price Index
EGB	European Government Bond	RRF	Recovery and Resilience Facility
EIB	European Investment Bank	SA	Seasonally Adjusted
EMOT	Economic Mood Tracker	SAFE	Survey on the access to finance of enterprises
EP	European Parliament	Sat	Saturday
SP	Spain .	Sep	September
ESI	Economic Sentiment Indicator	SMA	Survey of Monetary Analysts
ESM	European Stability Mechanism	SNB	Swiss National Bank
EU	European Union	SPF	Survey of Professional Forecasters
f	final print	Sun	Sunday
Feb	February	SURE	Support to mitigate Unemployment Risks in an Emergency
Fed	Federal Reserve	S&P	Standard & Poor's
FR	France	Thu	Thursday
Fri	Friday	TLTRO	Targeted Longer-term Refinancing Operations
GC	Governing Council	TPI	Transmission Protection Instrument
GDP	Gross Domestic Product	TTF	Title Transfer Facility
GNI	Gross National Income	Tue	Tuesday
GR	Greece	UK	United Kingdom
HICP	Harmonised Index of Consumer Prices	US	United States
HMT	His Majesty's Treasury	WDA	Work-day Adjusted
IMF	International Monetary Fund	Wed	Wednesday
INSEE	National Institute of Statistics and Economic Studies	у	year
IP	Industrial Production	yoy	year-on-year
IR	Ireland	ytd	year-to-date
PCA	Principal Component Analysis	EGB	Eurozone Governmeny Bond
ORI	Optional Reverse Inquiry	C&R	Coupons and redemptions
UN	Optional Neverse inquiry	COLIN	coupons and reachiphons

Source: BofA Global Research

BofA GLOBAL RESEARCH





Disclosures

Important Disclosures

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

BofA Securities fixed income analysts regularly interact with sales and trading desk personnel in connection with their research including to ascertain pricing and liquidity in the fixed income.

BofA Securities fixed income analysts regularly interact with sales and trading desk personnel in connection with their research, including to ascertain pricing and liquidity in the fixed income markets

Other Important Disclosures

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

This report may refer to fixed income securities or other financial instruments that may not be offered or sold in one or more states or jurisdictions, or to certain categories of investors, including retail investors. Readers of this report are advised that any discussion, recommendation or other mention of such instruments is not a solicitation or offer to transact in such instruments. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor for information relating to such instruments. Rule 144A securities may be offered or sold only to persons in the U.S. who are Qualified Institutional Buyers within the meaning of Rule 144A under the Securities Act of 1933, as amended. SECURITIES OR OTHER FINANCIAL INSTRUMENTS DISCUSSED HEREIN MAY BE RATED BELOW INVESTMENT GRADE AND SHOULD THEREFORE ONLY BE CONSIDERED FOR INCLUSION IN ACCOUNTS QUALIFIED FOR SPECULATIVE INVESTMENT.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

The securities or other financial instruments discussed in this report may be traded over-the-counter. Retail sales and/or distribution of this report may be made only in states where these instruments are exempt from registration or have been qualified for sale.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments.

This report, and the securities or other financial instruments discussed herein, may not be eligible for distribution or sale in all countries or to certain categories of investors, including retail investors.

Refer to BofA Global Research policies relating to conflicts of interest.

"BofA Securities" includes BofA Securities, Inc. ("BofAS") and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. "BofA Securities" is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI), BofA Europe (Frankfurt). Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI, BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merrill (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch Canada Inc, regulated by the Canadian Investment Regulatory Organization; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to "Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securit

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security



discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

This report may contain a trading idea or recommendation which highlights a specific identified near-term catalyst or event impacting a security, issuer, industry sector or the market generally that presents a transaction opportunity, but does not have any impact on the analyst's particular "Overweight" or "Underweight" rating (which is based on a three month trade horizon). Trading ideas and recommendations may differ directionally from the analyst's rating on a security or issuer because they reflect the impact of a near-term catalyst or event.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned in this report. Investors in such securities and instruments effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.



Research Analysts

Ralf Preusser, CFA Rates Strategist MLI (UK) ralf.preusser@bofa.com

Sphia Salim

Rates Strategist MLI (UK) sphia.salim@bofa.com

Mark Capleton

Rates Strategist mark.capleton@bofa.com

Erjon Satko

Rates Strategist BofASE (France) erjon.satko@bofa.com

Ronald Man

Rates Strategist MLI (UK) ronald.man@bofa.com

Agne Stengeryte, CFARates Strategist
MLI (UK)

agne.stengeryte@bofa.com

Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying these ideas or strategies.

