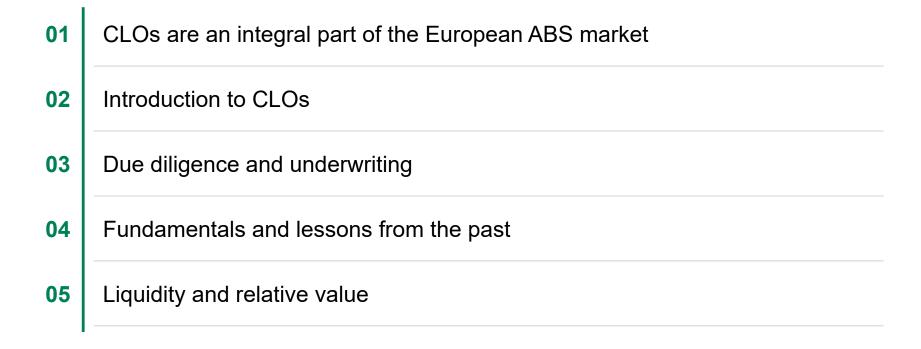




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Agenda





CLOs are an integral part of the European ABS market





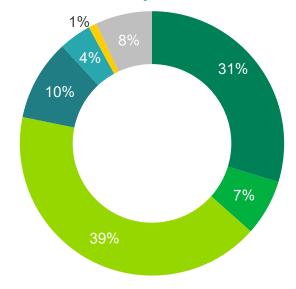
European ABS market overview

Size of market: €492 bn*

Main investors

- Bank treasuries
- Pension schemes
- Asset managers/Wealth managers (normally held within diverse credit portfolios)
- Insurance companies (normally only higher rated tranches, due to Solvency 2 treatment)
- · Hedge funds
- Central banks

Main collateral pools



- Residential Mortgage Backed Securities
- Commerical Mortgage Backed Securities
- Collateralised Loan Obligations
- Auto loans
- Consumer ABS
- Credit cards
- Others**

Main Issuer Geography



- UK, Netherlands and Spain are the largest issuers, but other core Europe and periphery also issue ABS
- CLOs include loans from a diverse range of geographies

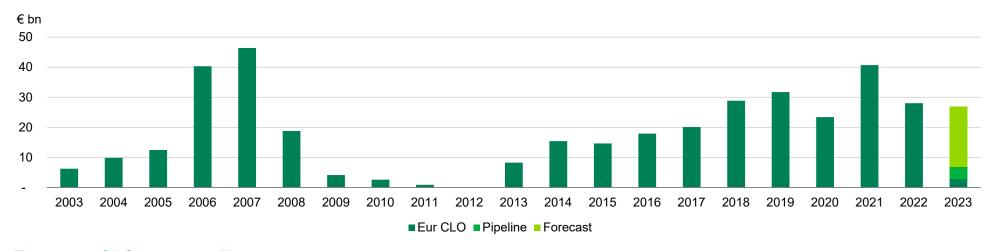
^{*}Source: JPM International ABS, CB Research, Morgan Stanley, at as 30 September 2022

^{**}Others include assets such as SME ABS. Leases and Student Loans

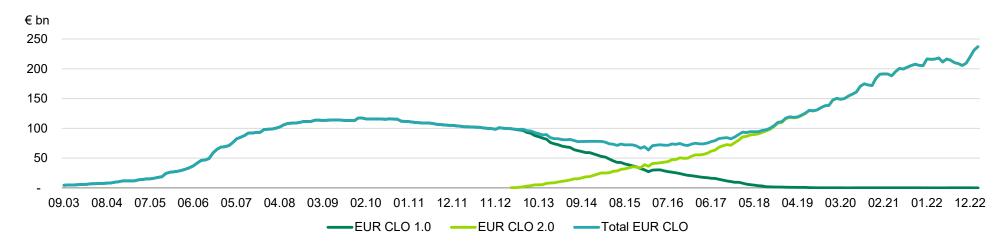


European CLO market restarted in 2013

Primary Euro CLO issuance



European CLOs outstanding



Pipeline and Forecast are based on announcements to date and current expectations which are subject to change as market conditions evolve. Source: CitiVelocity, TwentyFour 20 February 2023

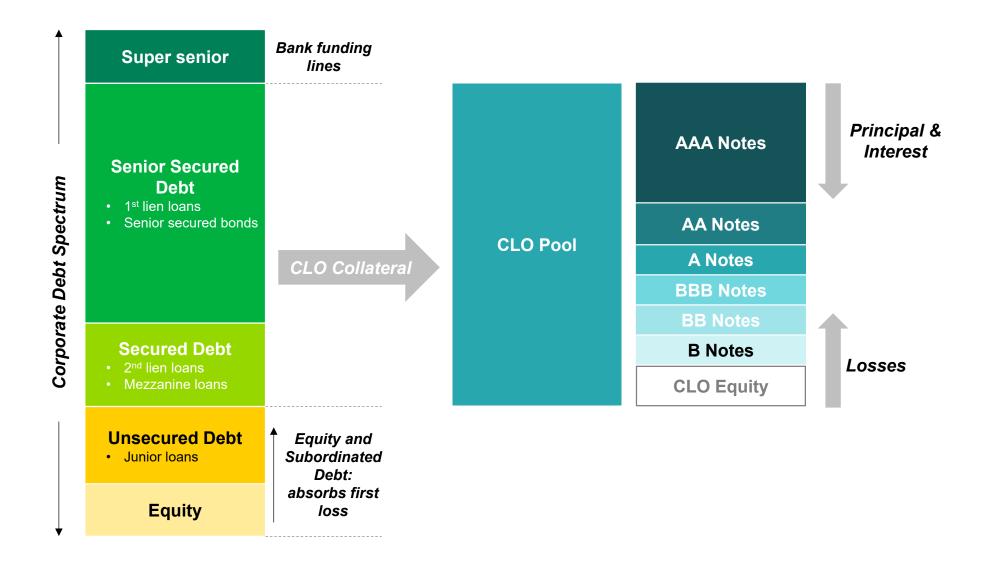


Introduction to CLOs



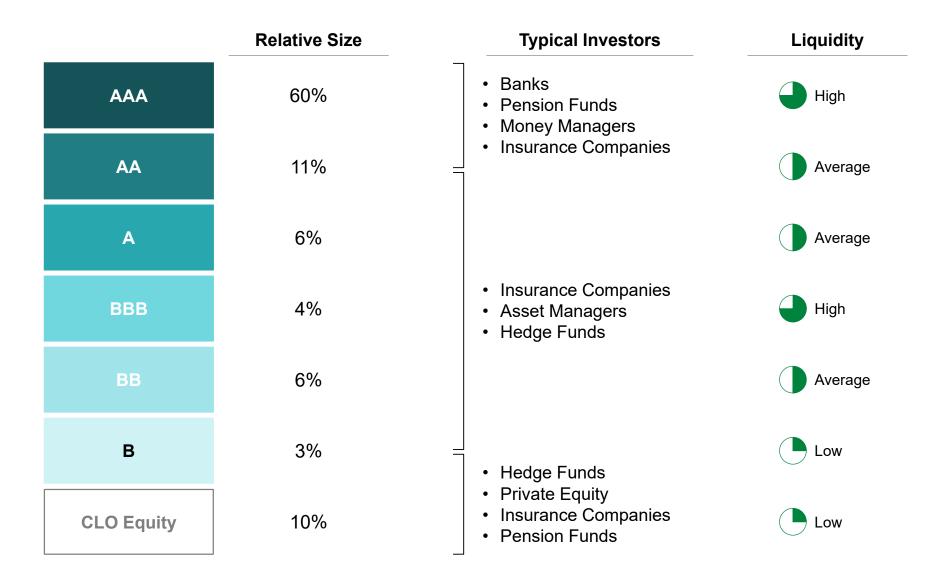


CLO: A sample structure





Typical investors across the CLO capital structure





Due diligence & underwriting





Analysing a CLO – The 3 Pillars

To analyse a CLO we concentrate on 3 fundamental components; manager, pool and structure



The Manager

- Corporate structure
- Management and key personnel
- Infrastructure and organisation
- Risk management
- Investment research process
- Past performance
- · Management style

- There are over 60 CLO managers in Europe, and another ~10 new managers in the pipeline that we're aware of
- There is a big difference between these managers, for example:
 - > Staffing (have they been through a cycle, turnover, etc)
 - > Systems
 - > Risk Management / Compliance
 - > Size / AUM
 - > European presence
 - > Track record (or the lack of)
 - > Investment process, sourcing
 - > Trading / Style (e.g. getting out of problem names early)
 - > Culture (will this team still be together in 5 years)
- Different managers manage deals in a different way and in our experience much of this
 has to do with how much risk they are willing to take, and how big are the equity return
 incentives
- Different managers require different CLO docs



Analysing a CLO - The 3 Pillars



- Issuance
- Spread performance
- Broad market default cycle
- Prepayments and refinancing
- Internal analysis including applying haircuts on the pool

Rating		Par	% of Total
Ba1		-	[0.0]%
Ba2	€	[5,029,024]	[1.3]%
Ba3	€	[13,330,000]	[3.3]%
B1	€	[47,662,827]	[11.9]%
B2	€	[195,216,119]	[48.8]%
B3	€	[138,762,030]	[34.7]%
Caa1 or low		-	[0.0]%

	Top 10 Countries		Par	% of Total
1	France	€	[101,356,182]	[25.3]%
2	Germany	€	[76,784,286]	[19.2]%
3	Netherlands	€	[44,840,000]	[11.2]%
4	United States	€	[42,206,410]	[10.6]%
5	United Kingdom	€	[36,459,024]	[9.1]%
6	Sweden	€	[18,822,203]	[4.7]%
7	Spain	€	[16,500,000]	[4.1]%
8	Luxembourg	€	[15,942,029]	[4.0]%
9	Ireland	€	[10,450,000]	[2.6]%
10	Finland	€	[7,500,000]	[1.9]%

Custo	m										
Item	ID Number	Asset Name	Unique ID	Prepay Rate	Prepay Units	Default Rate	Default Units	Recovery Rate	Recovery	Units	Recovery L
1	000001	Al Plex Acquico GmbH - Facility B1 (EUR)	LXLX194191		Deal Level 💌		Deal Level 💌		Percent	-	
2	000003	Al Sirona (Luxembourg) Acquisition S.a.r.l Term Lo	LXLX192479		Deal Level 💌		Deal Level 💌		Percent	-	
3	000006	Adevinta ASA - Facility B1-x1	LXLX190423		Deal Level ▼		Deal Level ▼		Percent	-	
4	000009	Adevinta ASA - Facility B1-x2	LXLX190423		Deal Level ▼		Deal Level ▼		Percent	-	



- Credit enhancement
- Payments waterfall
- Portfolio limits
- Reinvestment period
- Risk retention
- Management fees
- Leverage

Indicative Capital Structure*	Notional (EUR)	Rating (Fitch / Moody's)	C/E (%)	Issue Price	Coupon	DM
Class A Notes	[248,000,000]	[AAA(sf) / Aaa sf.]	[38.00]%	[100.00]%	TBD	TBD
Class B-1 Notes	[28,800,000]	[AA(sf) / Aa2 sf.]	[28.30]%	[100.00]%	TBD	TBD
Class B-2 Notes	[10,000,000]	[AA(sf) / Aa2 sf.]	[28.30]%	[100.00]%	TBD	
Class C Notes	[24,000,000]	[A(sf) / A2 sf.]	[22.30]%	[100.00]%	TBD	TBD
Class D Notes	[30,400,000]	[BBB-(sf) / Baa3 sf.]	[14.70]%	[100.00]%	TBD	TBD
Class E Notes	[20,000,000]	[BB-(sf) / Ba3 sf.]	[9.70]%	TBD	TBD	TBD
Class F Notes	[11,600,000]	[B-(sf) / B3 sf.]	[6.80]%	TBD	TBD	TBD
SUB Notes	[30,900,000]	NR	-	TBD		

[403,700,000]



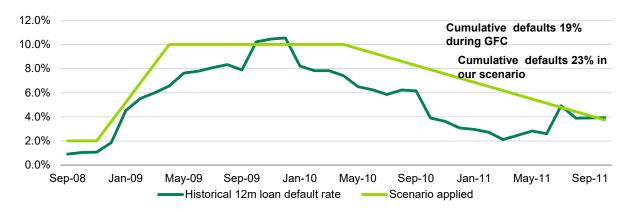
Modelling and stress testing for CLOs



Overview of interest payment, sequential payment of principal, and trigger tests

Given: Price 96.0	E	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	Scenario 9
Recovery:90 Percent	Gross Implied Writedown (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recovery:80 Percent	Gross Implied Writedown (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recovery:70 Percent	Gross Implied Writedown (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recovery:60 Percent	Gross Implied Writedown (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.07	34.68
Recovery:50 Percent	Gross Implied Writedown (%)	0.00	0.00	0.00	0.00	0.00	10.36	41.27	70.89	97.54
Recovery: 40 Percent	Gross Implied Writedown (%)	0.00	0.00	0.00	0.00	19.95	57.74	95.06	100.00	100.00
Recovery:30 Percent	Gross Implied Writedown (%)	0.00	0.00	0.00	14.89	61.98	100.00	100.00	100.00	100.00
Recovery:20 Percent	Gross Implied Writedown (%)	0.00	0.00	2.82	50.58	100.00	100.00	100.00	100.00	100.00
Recovery:10 Percent	Gross Implied Writedown (%)	0.00	0.00	24.57	84.14	100.00	100.00	100.00	100.00	100.00
Forecasts	Scenario	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	Scenario 9
	Spread To (EURIBOR Swap)	6mo: -0.502 1yr:								
	Z-Spread To (EURIBOR Swap)	6mo: -0.502 1yr:								
	E-Spread To (US Swap)	3mo: 0.511 6mo:								
	EURIBOR (3mo)	-0.562 -0.562 -0	-0.562 -0.562 -0	-0.562 -0.562 -0	-0.562 -0.562 -0	-0.562 -0.562 -0	-0.562 -0.562 -0	-0.562 -0.562 -0	-0.562 -0.562 -0	-0.562 -0.562 -0
	Prepay	20 CPR								
	Default Scenario Multiplier	100 Percent								
	Default	2 CDR	3 CDR	4 CDR	5 CDR	6 CDR	7 CDR	8 CDR	9 CDR	10 CDR

Stress test 1: simple matrix CDR/LS



Stress test 2: shock test simulating similar defaults seen during the GFC



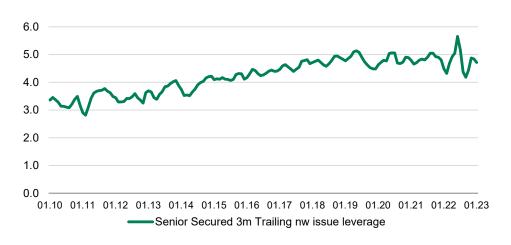
Fundamentals & lessons from the past



European corporate defaults still very low, but likely more sensitive to a recession



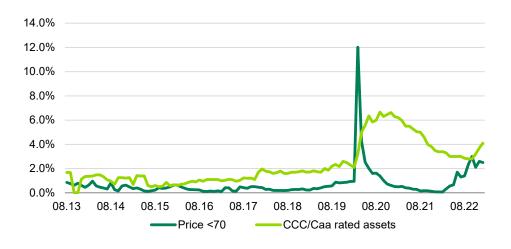
Senior secured leverage



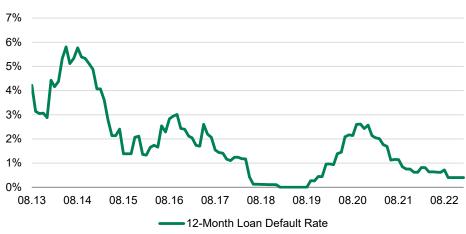
EU prepayment rate



CCC/distressed and defaulted loans



Leverage loan defaults still very low



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Data source: Barclays, S&P LCD, Bloomberg. Data as at 31 January 2023



Default break-even analyses: North Westerly CLO 7

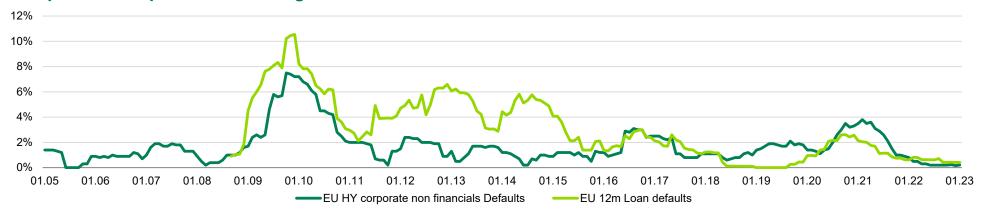
Class	Size (£)	Rating (M/S)	Coupon	Credit support (%)	Price	Spread (bps)	Yield (%)	Weighted average life (years)	Peak default for first € loss (%)	Liretime	Peak default) for 0% IRR (%)
NWEST VII-X A	248,000,000	Aaa/AAA	Euribor + 0.84%	38.0%	96.65	170	4.9%	4.3			
NWEST VII-X B1	27,500,000	Aa2/AA	Euribor + 1.50%	28.0%	94.41	260	5.7%	6.0			
NWEST VII-X B2	12,500,000	Aa2/AA	2% fixed	28.0%	81.21	260	5.7%	6.0			
NWEST VII-X C	28,000,000	A2/A	Euribor + 2.00%	21.0%	91.93	350	6.6%	6.6	49.5%	66.5%	55.0%
NWEST VII-X D	24,000,000	Baa3/BBB	Euribor + 2.95%	15.0%	88.63	500	8.2%	7.4	34.2%	51.4%	39.5%
NWEST VII-X E	20,000,000	Ba2/BB	Euribor + 5.66%	10.0%	85.05	850	11.7%	8.2	21.3%	36.7%	27.3%
NWEST VII-X F	12,000,000	B2/B-	Euribor + 8.14%	7.0%	81.22	1,200	15.4%	8.7	14.3%	28.3%	18.6%
NWEST VII-X SUB	36,950,000 408,950,000	NR/NR									
35.0% ————————————————————————————————————											
20.0% 15.0% 10.0%											
0.0%	~~		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~~~	~						
09.08 06.09 0	3.10 12.10 09.	11 06.12 03.13	3 12.13 09.14 06	5.15 03.16 12.	.16 09.17	06.18 03.19	12.19 09.2	20 06.21 03	.22 12.22	09.23 06.24	1 03.25 12.25
		——Historio	Euro Leverage Loar	n default rate	— BBE	default peak	—BB d	efault peak			

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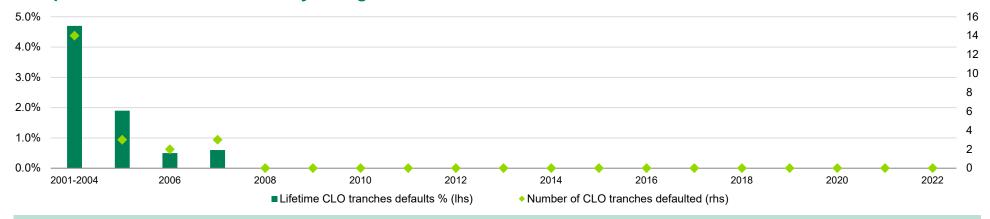


European default rates in HY, Leveraged loans and CLOs

European HY corporate and leveraged loan defaults



European CLO tranches defaults by vintages



- CLO tranches impacted were from 2003 to 2007 vintages and subsequently reported as defaults between 2015 and 2018 as the CLOs were
 approaching their maturity
- Lifetime defaults are 0.1% for IG rated tranches (only BBB rated) and 1.9% for Sub-IG rated tranches



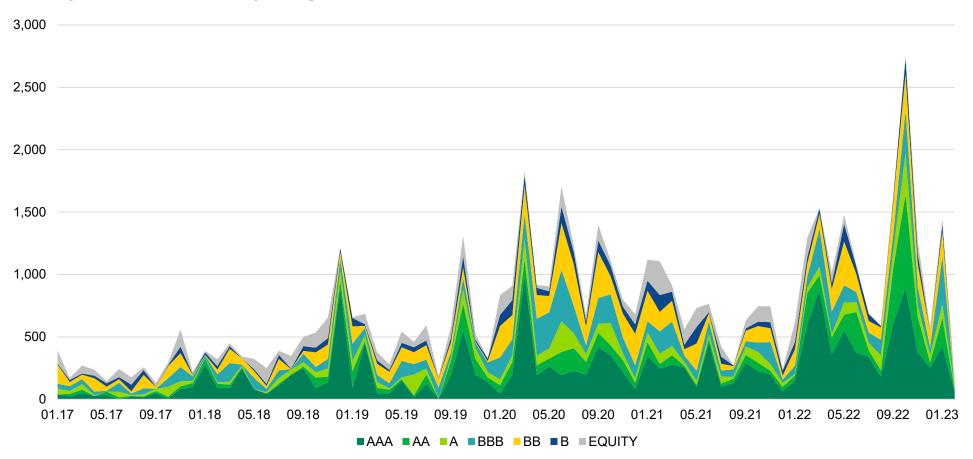
Liquidity and relative value





Resilient liquidity through enhanced volatility

Monthly CLO BWIC volume by rating



Total of <u>€4.4bn of BWICs</u> following the <u>UK Mini-Budget</u> – As much selling in late <u>September</u> and into <u>October</u> as in the <u>previous five months</u> combined



01.22

10.21

04.22

10.22

CLOs form a core of our holdings and liquidity

	2023	2022	2021		
Current CLO AUM	£2.24bn				
AAA	7.14%				
IG Mezz	15.11%				
HY	77.75%				
Volume CLOs traded		£1.4bn	£1.8bn		
Secondary		89%	20%		
Primary		11%	80%		
Sold		63%	7%		
Purchased		37%	93%	Indicative	bid-offer
a di di la di di la di l		01 70	0070	LDI Crisis	Today
AAA		24%	14%	1 - 1.5%	0.5%
G Mezz		35%	24%	2 – 3%	1%
HY Mezz		41%	62%	3 – 4%	2%
Equity				No market	~10-20%
E Millions					
300					
200			~		
100					
0					

10.18 01.19 04.19 07.19

10.19

01.20

04.20

-200

-300

04.18 07.18

Sources: TwentyFour; 22 February 2023

07.20

---Purchases ----Sales

10.20

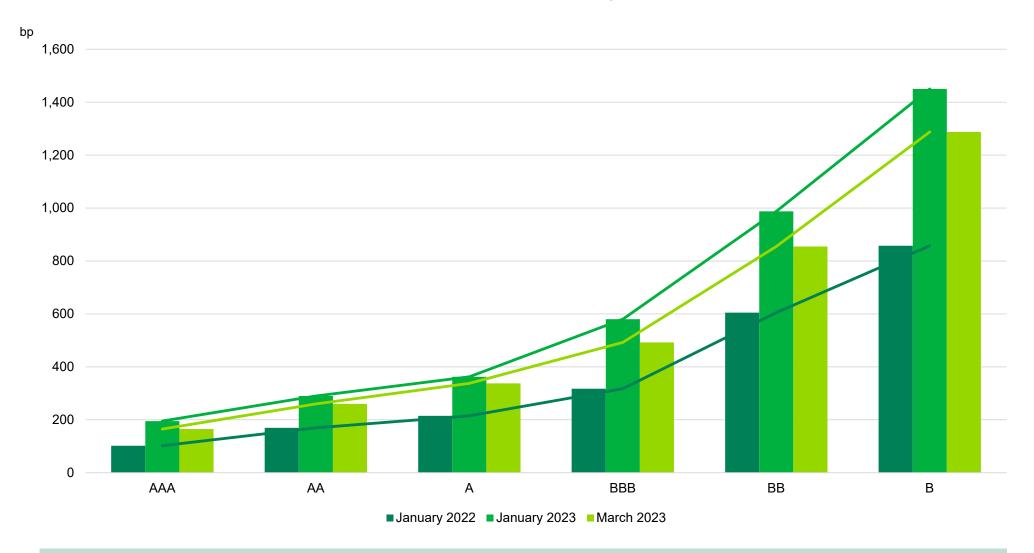
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Risk looks to be priced much more appropriately

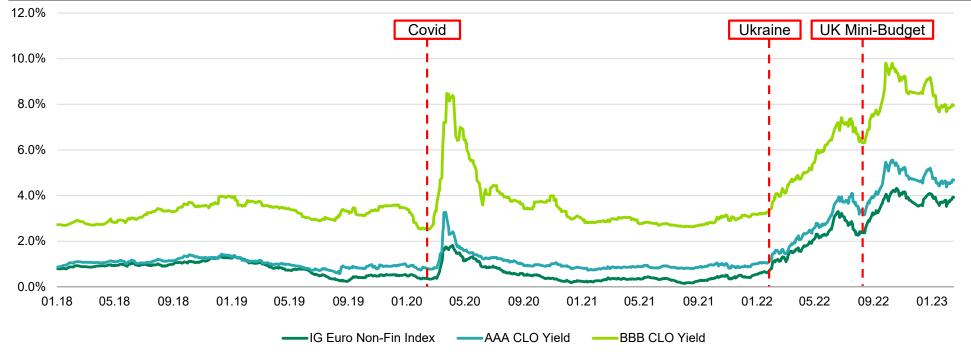


Spread curves widened and then steepened in 2022, pricing in meaningful downside

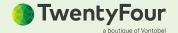


CLOs offer significant yield pick up opportunities

	IG Euro Non-Fin Index	HY Euro Index	AAA CLO	BBB CLO	BB CLO
Spread	70bps	320bps	165bps	495bps	855bps
Yield	3.9%	6.7%	4.7%	7.9%	11.6%
Rating	BBB+	BB-	AAA	BBB	BB
Duration	5.07	3.1	0.1	0.1	0.1
Maturity	5.7	3.7	4.5	6.5	7.5
Coupon	1.7%	3.7%	3.9%	6.2%	8.7%
Total Return 2022	-13.9%	-11.5%	-2.0%	-7.6%	-9.8%



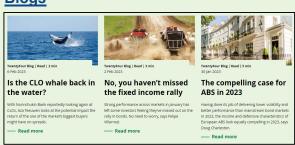
Past performance is not a reliable indicator of current or future performance. The value of an investment and the income from it can fall as well as rise as a result of market and currency fluctuations and you may not get back the amount originally invested. Yield for floating rate assets calculated by adding the credit spread to the relevant swap-rate. It is not possible to invest directly in an index and they will not be actively managed. Source: Citi Velocity, ICE Indices, Bloomberg; 20 February 2023



Questions?

Please check out our insights on ABS and CLOs:

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Videos



Whitepapers





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