

Axiom Alternative Investments

Investing with a financial sector specialist

Webinar 24th of May 2023

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- II. Key themes for the coming quarters
- III. Expected regulatory changes
- IV. Q&A



I.1 Key takeaways

A record first quarter





Barclays PLC

Barclays profits jump 27% in first quarter

BNP Paribas profits boosted after windfall from Bank of the West

French lender finds momentum in first quarter as bad-loan provisions fall and earnings rise from bond trading



Paribas made a capital gain of nearly €3bn from selling its Bank of the West unit © Bloomberg



Deutsche Bank AG

Deutsche Bank reports decade-high profit during turbulent first quarter

Standard Chartered earnings improve as rising rates and China reopening boost lender

UK-based bank reports \$1.8bn of statutory profits before tax in first quarter





Data as of 19/05/2023 | Source: Axiom Alternative Investments, Bloomberg

I.1 Key takeaways

Highlights



9th consecutive quarterly result

with European banks beating analysts' consensus.

95% of banks delivered net results in line with or above consensus.

Strong growth in results compared to 2022

- Q1 23 vs. Q1 22: interest income up 35%
- 2023 vs. 2022: expected interest income growth of 20%; net income up 24%.

Results driven by a range of positive factors

Valuation

- · Better than expected interest income
- · Commissions more resilient than expected
- No disappointment on costs
- No sign of asset quality deterioration: cost of risk down to 41bps, below 2023 expectations (55bps)
- Lower loan growth results in higher CET1 ratios (+20bps)
- Deposit bases ranged from -5% to +10% over the quarter with a median of -1%

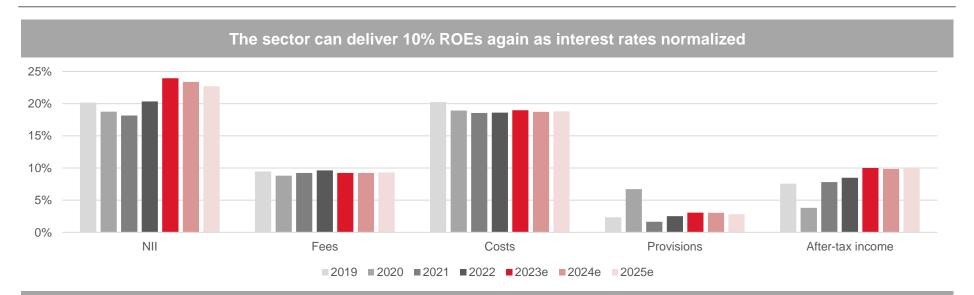
Valuations that contrast with the sector's good performance

Data as of 19/05/2023 | Source: Axiom Alternative Investments

I.2 Post Q1 consensus summary



Analyst expectations and sensitivities to macroeconomic scenarios

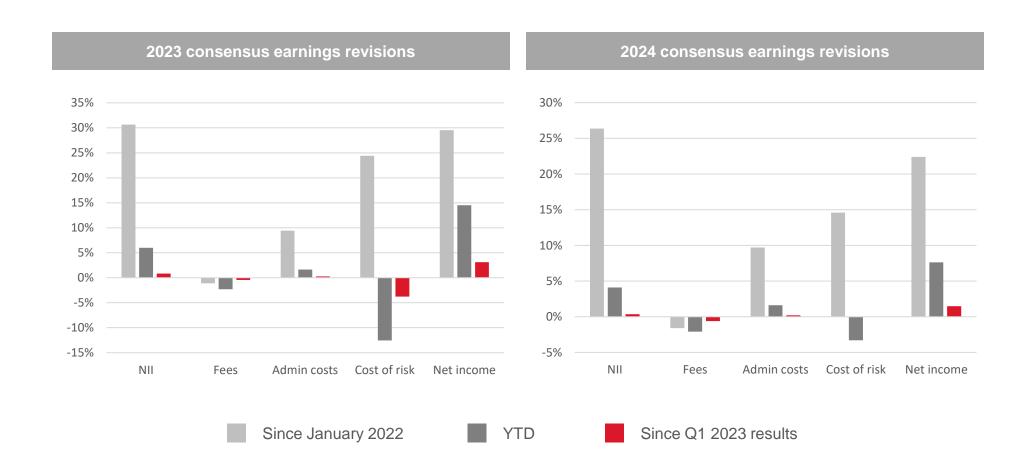


Sensitivities to macroeconomic scenarios **Shock** Comment After-tax ROE Item 150 - 175 bps in NIRP; 225 - 375 bps in normal environment +/- 3 pts Customer spreads +/- 50 bps Volumes +/- 5% Flat loan books expected in 2023 after strong growth in 2022 +/- 1 pt +/- 5% +/- 0.5 pts Fees Total fees tend to be stable; deep recession -10% Costs +/- 5% Driven by salary inflation, cost reductions and levys -/+ 1 pt **Provisions** +/- 40 bps TTC: 40 bps; Recession: 80 bps; Depression: 120 bps -/+ 2.5 pts

I.3 Revisions to consensus estimates

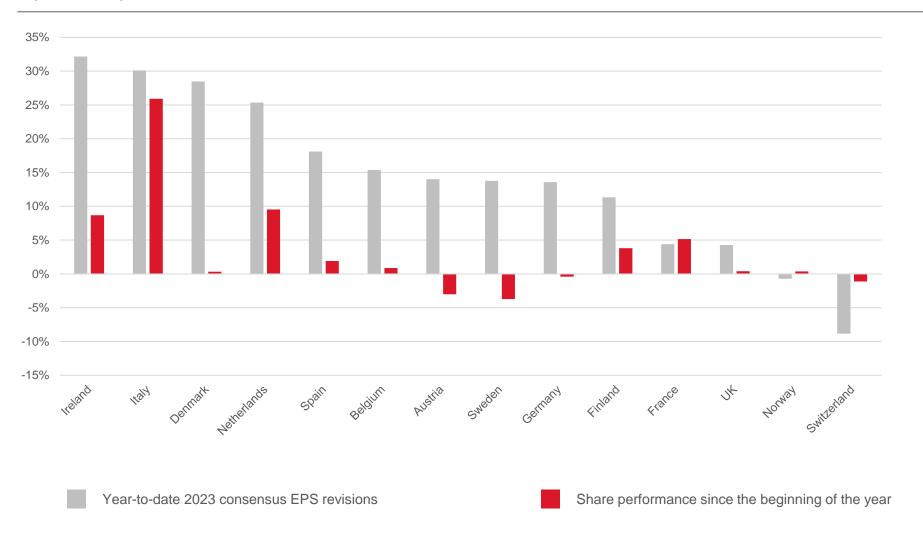
By P&L item





I.3 Revisions to consensus estimates

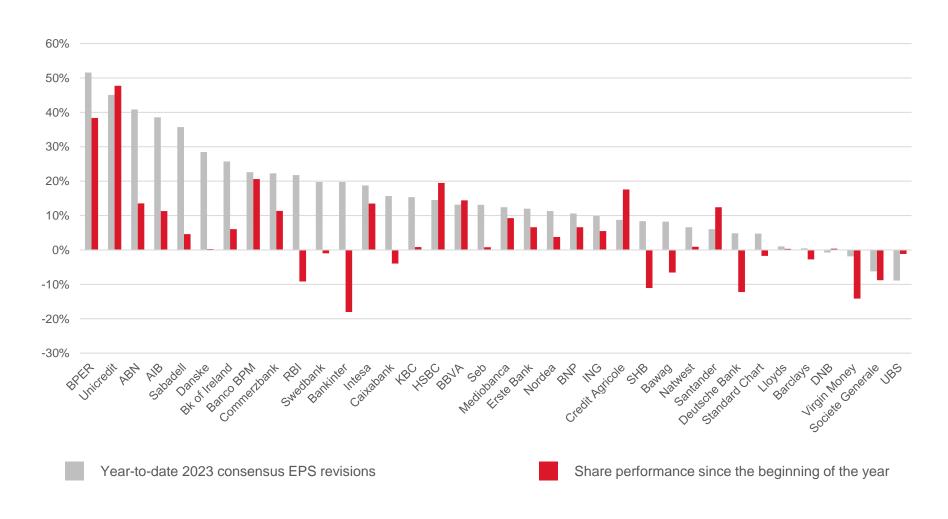
By country



I.3 Review of the consensus for 2023 and 2024

By bank





I.4 Market performance

Vs. other sectors



Ticker	Sector	∆ EPS 2023	Price return	Rerating	Current PE	Valuation quantile
SXRP Index	Retail	0%	19%	19%	18,4	90%
SXQP Index	Per&HouseGds	1%	18%	17%	18,0	89%
SX8P Index	Technology	7%	17%	10%	20,7	88%
SXDP Index	Healthcare	3%	10%	8%	17,0	82%
SXNP Index	Industrials	8%	13%	5%	16,3	80%
SXMP Index	Media	3%	6%	3%	15,3	63%
SX4P Index	Chemicals	6%	8%	2%	15,4	62%
SXOP Index	Construction	10%	16%	7%	13,9	52%
SXKP Index	Telcomm	-1%	13%	13%	12,6	49%
SXXP Index	All	3%	10%	7%	12,5	48%
SXFP Index	FinServ	-4%	7%	10%	12,7	46%
SXIP Index	Insurance	3%	2%	-1%	9,2	42%
SXTP Index	Trav&Leisr	23%	26%	4%	12,8	30%
SXPP Index	BasicResou	-5%	-13%	-7%	8,9	25%
SXEP Index	Oil&Gas	-15%	-1%	14%	7,5	8%
SXAP Index	Auto&Parts	7%	13%	6%	5,6	6%
SX7P Index	Banks	17%	7%	-10%	6,3	4%

Past performance is not a reliable indicator of future performance. It does not constitute an investment recommendation

Data as of 19/05/2023 | Source: Axiom Alternative Investments, Bloomberg | 1 YTD | 2 Over the past 20 years

I.4 Market performance

Valuation





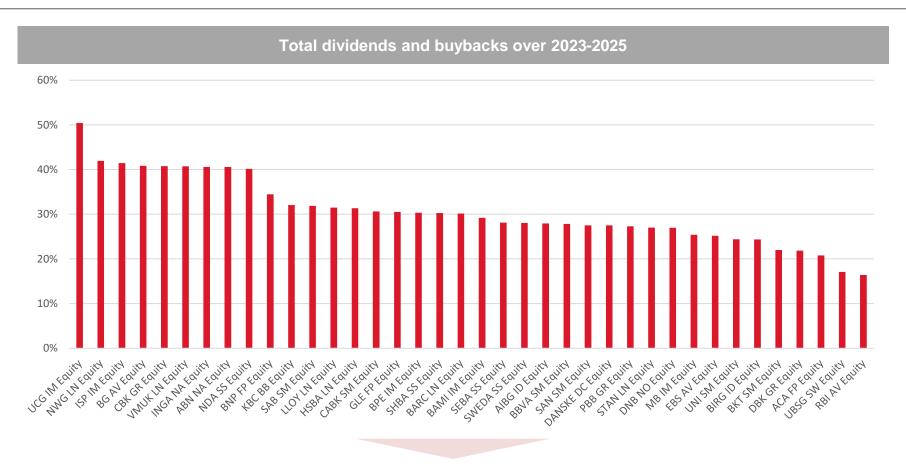
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Data as of 19/05/2023 | Source: Axiom Alternative Investments, Bloomberg

I.4 Market performance

Record distribution yields





European banks pay out on average 60% of their profits, in dividends (80% of total distributions) and share buybacks (20% of total distributions).

Past performance is not a reliable indicator of future performance. It does not constitute an investment recommendation

Data as of 19/05/2023 | Source: Axiom Alternative Investments, Bloomberg

I.4 Market performance Performance scenarios



	2023	2024	2025		
Dividend yield	7.1%	7.9%	8.8%		
Buyback yield	2.0%	2.1%	2.0%		
Average annual distribution yield		10.0%			
Average annual TBV accretion yield	4.5%				
Total annual carry	14.5%				

	Performance scenarios								
Probability	Scenario	Interest rates	Commercial margins	Loan losses	3y ROE	Market sentiment	Likely P/B	Price return	Total 1y return
10%	Deep protracted recession	0 bps	175 bps	120 bps	2 - 4 pts	More bear	0.40	-40%	-30.3%
10%	Recession + back to 0% rates	0 bps	175 bps	80 bps	4.5 - 6.5 pts	Unchanged	0.55	-18%	-7.9%
30%	Recession with 200 bps cuts	150 bps	215 bps	80 bps	7 - 9 pts	Unchanged	0.75	12%	22.0%
30%	Slow landing	200 bps	240 bps	40 bps	8.5 - 10.5 pts	More bull	1.00	49%	59.3%
10%	No landing	350 bps	260 bps	30 bps	10 -12 pts	Unchanged	0.90	34%	44.3%
10%	Re-acceleration	400 bps	270 bps	30 bps	11 - 13 pts	More bear	0.80	19%	29.4%

Data as of 19/05/2023 | Source: Axiom Alternative Investments



- I. Overview of the banking sector in Q1 2023
- **II.** Key themes for the coming quarters
- III. Expected regulatory changes
- IV. Q&A







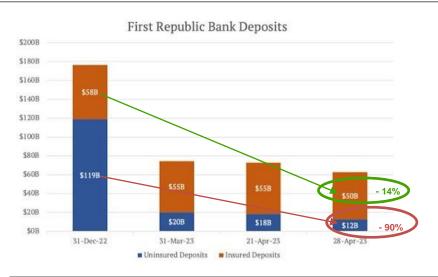


Deposit mix							
	Assumptions	% Category	Weight				
	Overnight interest rates	35%	25%				
l lava ab alda	Deposit redeemable at notice ≤ 3M	35%	25%				
Households	Deposit, agreed maturity ≤ 1Y	20%	14%				
	Deposit, agreed maturity > 1Y	10%	7%				
	Overnight interest rates	55%	17%				
Corporates	Deposit, agreed maturity ≤ 1Y	15%	5%				
	Deposit, agreed maturity > 1Y	30%	9%				

The consensus for 2023/2024 interest income already incorporates a return to a pre-2014 deposit mix

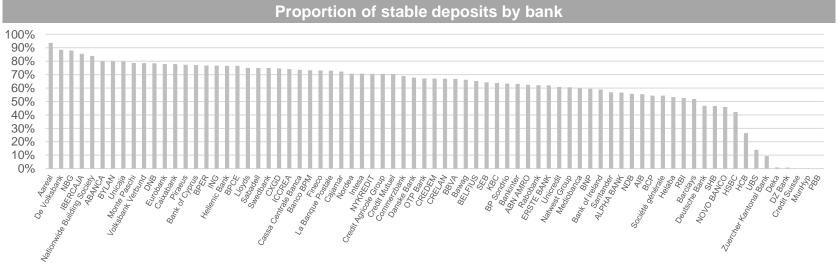


European banks benefit from stable and diversified deposit bases



Deposit stability

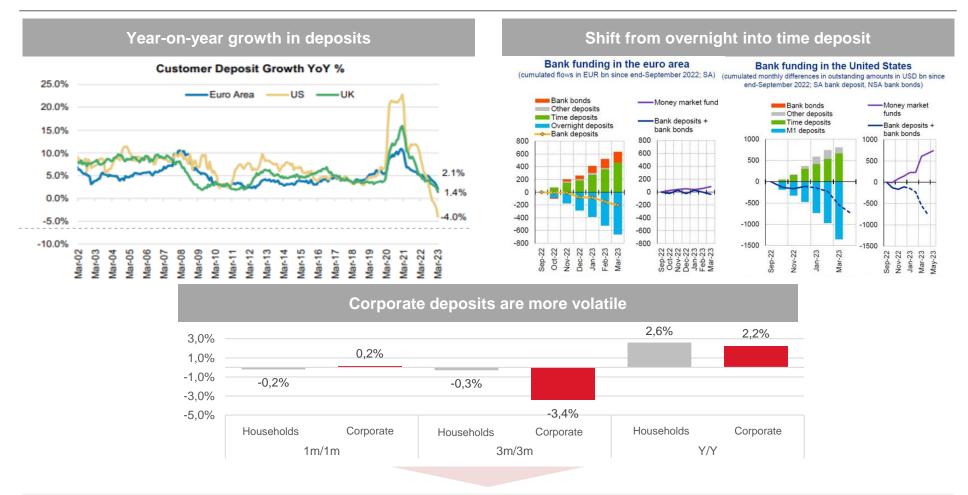
Recent history shows that banks in crisis situations have experienced higher deposit withdrawals than assumed in the LCR models on non-stable deposits.



Data as of 19/05/2023 | Source: Euro-area-statistics

Evolution of deposit volumes





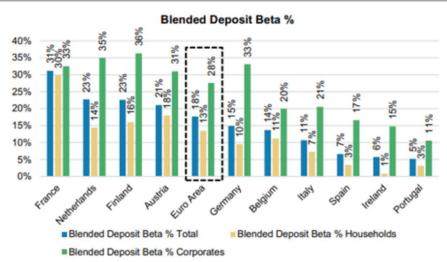
The scarcity of short-term sovereign bonds, the lack of an ECB reverse repo facility and the minor development of MMF explain the higher deposit resilience in the Euro area

Data as of 19/05/2023 | Source: Axiom Alternative Investments, ECB, Haver, Morgan Stanley Research

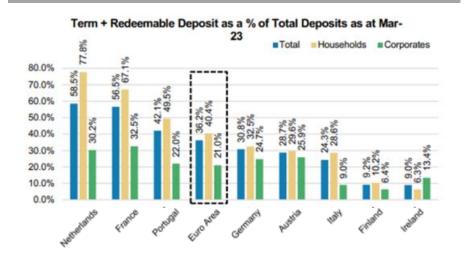
Cost of deposits







Deposit mix evolution



Expected final beta between 40 and 50%

Cost of deposits



Front book rates%									Back boo	ok rates%	
March 2023	NFC Overnight	NFC term	HH Overnight	HH term	o/w < 2Y	o/w > 2Y	HH Redeemable	NFC term	HH term	o/w < 2Y	o/w > 2Y
Euro Area	0,3%	2,6%	0,2%	2,1%	2,1%	2,3%	1,2%	2,1%	1,5%	1,3%	1,7%
Austria	0,2%	2,7%	0,4%	2,3%	2,3%	2,6%	0,0%	2,2%	1,1%	1,0%	1,3%
Belgium	0,1%	2,6%	0,1%	2,5%	2,5%	2,5%	0,4%	2,4%	2,2%	2,4%	1,4%
France	0,4%	3,0%	0,0%	2,8%	2,9%	2,5%	2,3%	2,2%	2,3%	2,4%	2,3%
Germany	0,3%	2,6%	0,2%	2,2%	2,2%	2,1%	0,3%	2,1%	1,2%	1,8%	0,9%
Spain	0,2%	2,3%	0,1%	1,3%	1,3%	0,8%	0,0%	2,0%	0,5%	0,5%	0,6%
Ireland	0,1%	nm	0,0%	1,1%	1,1%	1,5%	0,2%	2,0%	0,4%	0,4%	0,4%
Italy	0,3%	2,6%	0,2%	2,8%	2,8%	2,5%	1,5%	2,4%	1,9%	2,1%	1,7%
Netherlands	0,7%	2,3%	0,1%	2,3%	2,3%	1,9%	0,5%	2,4%	1,8%	1,7%	1,8%
Portugal	0,0%	2,0%	0,0%	0,9%	0,9%	0,8%	0,0%	1,2%	0,2%	0,2%	0,4%
Evolution since June 2022	NFC Overnight	NFC term	HH Overnight	HH term	o/w < 2Y	o/w > 2Y	HH Redeemable	NFC term	HH term	o/w < 2Y	o/w > 2Y
Euro Area	0,36%	2,66%	0,15%	1,82%	1,87%	1,54%	0,75%	1,88%	0,36%	1,14%	0,05%
Austria	0,26%	2,76%	0,29%	1,99%	2,13%	1,78%	0%	2,16%	0,92%	0,93%	0,90%
Belgium	0,15%	2,77%	0,07%	2,28%	2,32%	2,07%	0,28%	2,44%	1,10%	2,02%	0,19%
France	0,33%	2,87%	0,02%	2,23%	2,30%	1,80%	1,55%	1,85%	0,10%	2,06%	0,01%
Germany	0,43%	2,87%	0,19%	1,83%	1,96%	1,27%	0,25%	2,01%	0,46%	1,58%	0,01%
Spain	0,12%	1,95%	0,06%	1,24%	1,25%	0,78%	0%	1,25%	0,48%	0,49%	0,35%
Ireland	0,16%	nm	0,01%	1,12%	1,10%	1,36%	0,18%	2,13%	0,36%	0,39%	0,13%
Italy	0,32%	2,42%	0,19%	2,25%	2,33%	1,78%	0,06%	1,94%	0,92%	1,44%	0,39%
Netherlands	0,98%	2,53%	0,08%	1,00%	0,92%	0,86%	0,53%	2,22%	0,19%	0,59%	0,09%
Portugal	0,03%	1,92%	0,00%	0,83%	0,84%	0,73%	0,00%	1,15%	0,17%	0,20%	-0,03%

Data as of 19/05/2023 | Source: Haver, ECB, Morgan Stanley Research

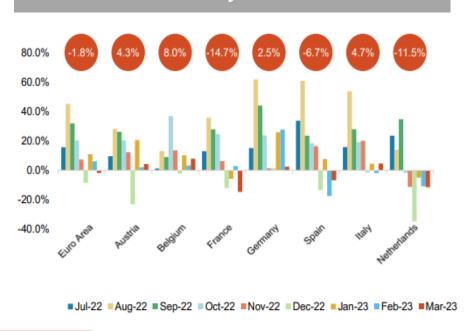
Evolution of loan volumes



Change in household credit production yearon-year



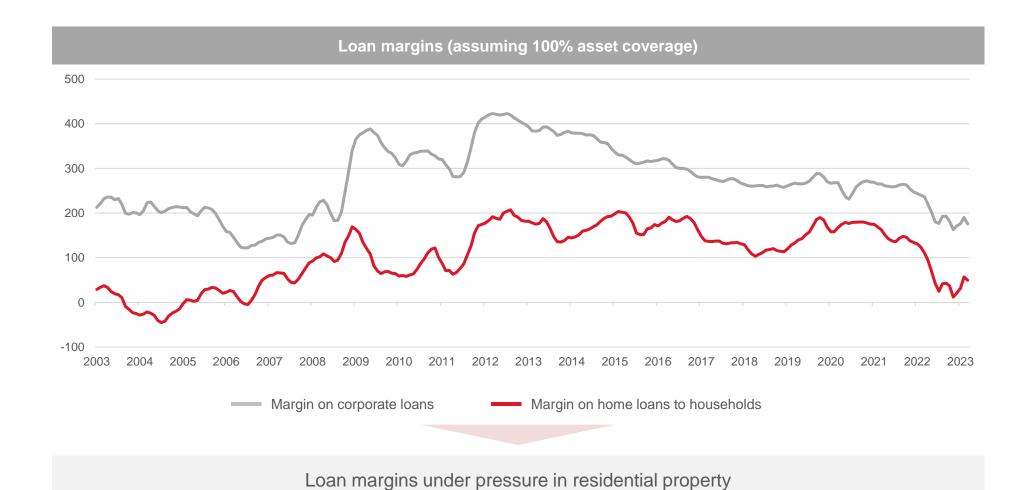
Change in corporate credit production yearon-year



Companies have pre-funded their cash needs in 2022; nevertheless, demand remains satisfactory. The housing market is in an adjustment phase - start of recovery expected end 2023/2024

Loans: margin evolution





Data as of 19/05/2023 | Source: Axiom Alternative Investments

Loans: Margin evolution



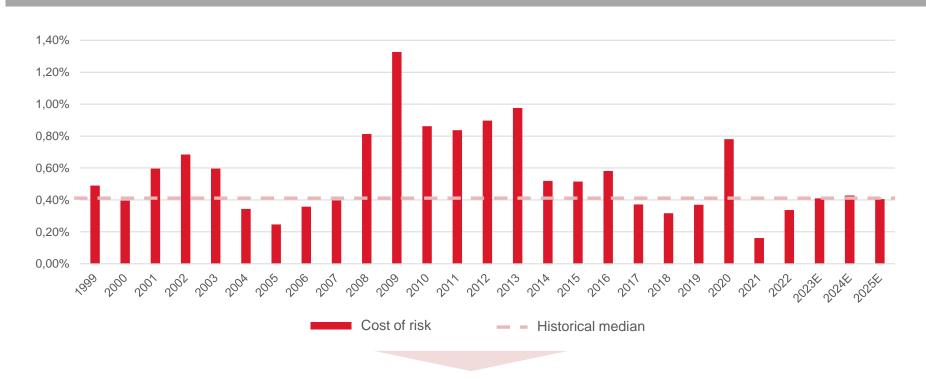


Asset margins begin to recover; gradual transition to the new rate environment for borrowers

Historical context





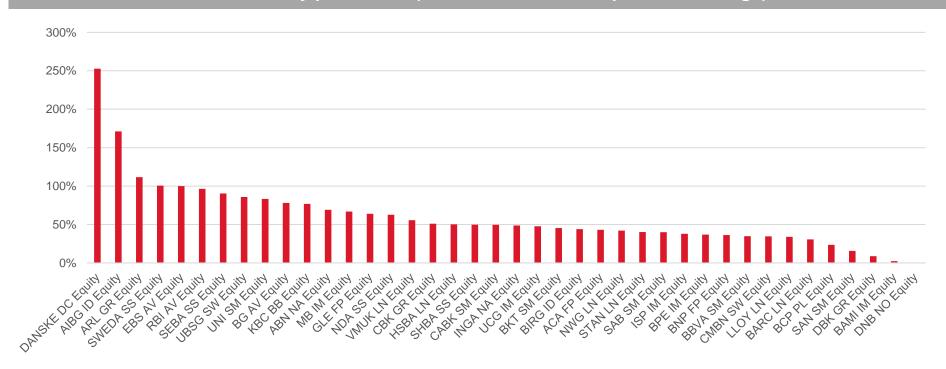


The widely expected increase in the cost of risk keeps being postponed

Provisions: significant buffers



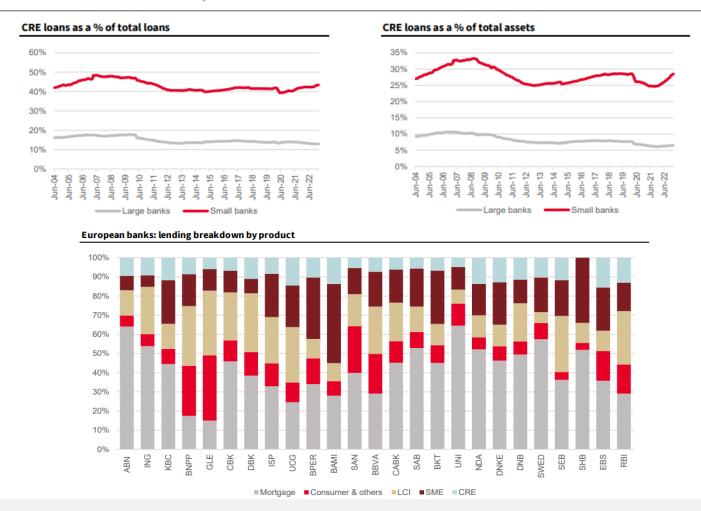
Precautionary provisions (% normalised annual provision charge)



Precautionary provisions cover 2/3 of a classic recession

CRE: overview of bank exposures

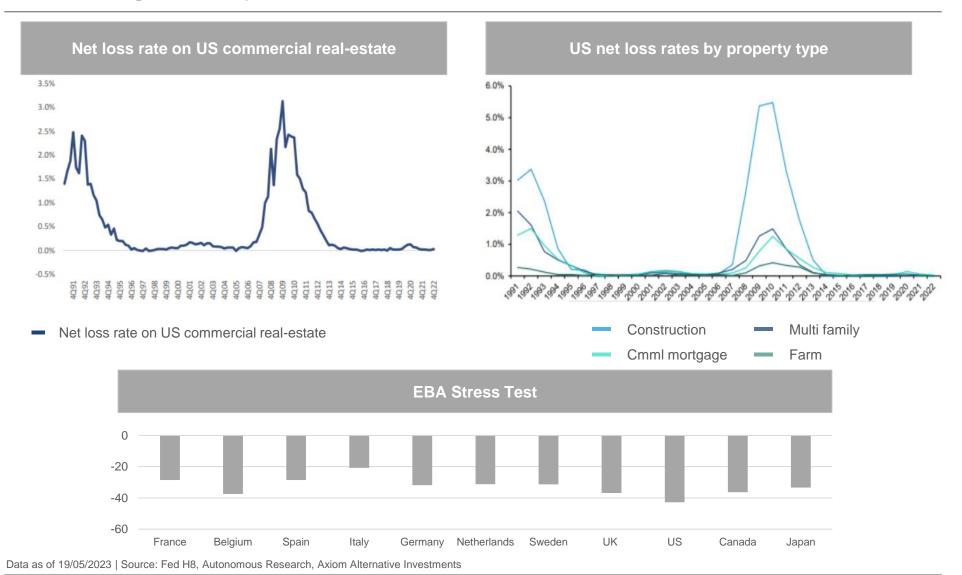




Excluding US regional banks, commercial real-estate (including multi-family) typically accounts for around 10% of loans

Order of magnitude of potential losses





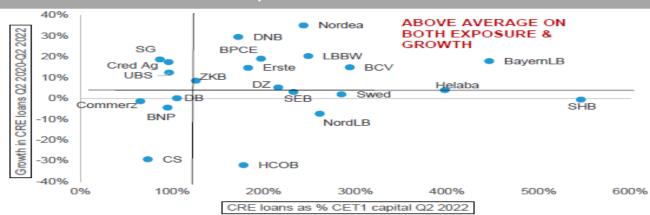
Risk component



The different risk components by country

	<u>Collatera</u>	l stretch_	Income & ac	Income & activity stretch		Financing stretch			<u>Spillover stretch</u>		
	CAGR in CRE prices, 2017- 2021*	Prime office yields, Q2 2022	Vacancy rates, Q2 2022	CAGR in bank lending to CRE, 2017 - H1 2022	CRE bonds Issuance in 2021, as % GDP	Growth in CRE funds' AUM (2021 vs 2017, as % GDP)	Bank financing of CRE as % GDP, Q2 2022	Investment market as % GDP, 2021	Rank of ranks		Solvency risk (increase in loan-to-value)
Switzerland	2.2%	1.7%	2.6%	4.7%	0.7%	1.6%	43.3%	43.3%	15		
Sweden	5.7%	3.0%	5.0%	3.8%	3.9%	0.4%	29.8%	47.7%	14		
Germany	3.2%	3.0%	8.5%	6.8%	0.5%	3.7%	13.7%	16.7%	13		Risk of
France	3.0%	2.6%	2.7%	6.2%	0.5%	2.4%	22.9%	17.3%	12		decreased
Norway	7.6%	3.5%	6.0%	7.4%	0.3%	1.2%	23%	16.2%	11		
Finland	1.6%	3.0%	11.5%	2.1%	0.4%	2.2%	19.1%	34.9%	10		profitability
Netherlands	6.4%	3.0%	5.5%	0.2%	0.2%	2.7%	12.8%	21.5%	9		
Denmark	0.4%	3.0%	5.3%	1.5%	0.5%	0.6%	20.1%	23%	8		
Austria	1.6%	3.0%	4.3%	0.4%	0.1%	0.9%	38.2%	10.6%	7		
Portugal	4.0%	4.0%	8.6%	-6.5%	0%	0%	10.9%	13.6%	5		Impact on the
UK	0.6%	3.3%	5.9%	-2.8%	0.4%	-0.4%	8.4%	26.7%	5		country's overall
Belgium	-0.3%	3.2%	4.2%	7.5%	0.3%	0%	12.6%	10.8%	4		•
Italy	-1.1%	2.9%	11.0%	-9.6%	0%	1.9%	7.7%	7.2%	3		economy
Ireland	0.1%	4.0%	8.8%	-6.5%	0.2%	2.5%	3.1%	7.3%	2		
Spain	-1.7%	3.3%	9.4%	-7.4%	0.3%	0%	8.5%	9%	1		

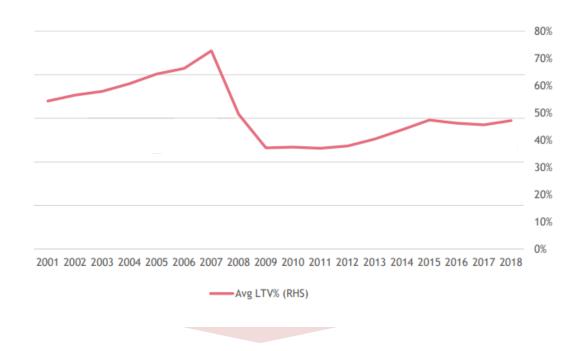
The most exposed banks: German and Nordic banks



Focus on commercial real estate



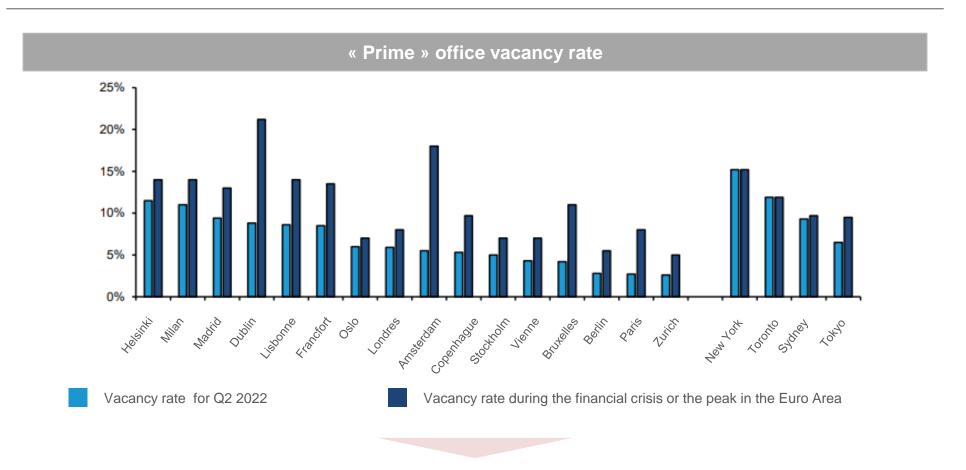
LTVs are 20 percentage points lower than in 2008



Tighter post-financial crisis regulation has resulted in more conservative origination standards for commercial property

Focus on commercial real estate





In Europe, vacancy rates are still far from crisis levels, unlike in the US



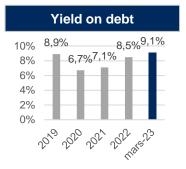


Aareal

Loan portfolio and asset quality

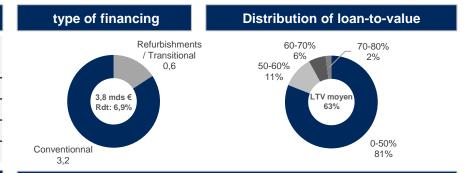
Loan-to-Value 65% 55% 55%

Loan-to-Value by type							
%	2019	2020	2021	2022	Mach 2023		
Hotels	55	62	60	56	56		
Logistics	54	56	55	52	52		
Offices	57	58	58	57	57		
Commercial	61	61	59	56	56		



	Helu	L Dy Ly	ρ c		
%	2019	2020	2021	2022	Mach 2023
Hotels	9,6	3,0	5,0	9,0	10,1
Logistics	8,5	9,2	8,7	9,0	9,2
Offices	7,7	8,1	7,6	6,9	6,7
Commercial	9,6	8,8	9,1	9,8	10,4

Asset quality - Focus on the US office market



Portfolio by location

Market A

Submarket A

3,8 mds € Submarket B Market B

Past performance is not a reliable indicator of future performance. It does not constitute an investment recommendation

Data as of 19/05/2023 | Source: Autonomous Research, Axiom Alternative Investments

Focus on commercial real estate



Metrics and comments from the most exposed banks

Bank	Worrisome CRE metric	Exposure Q2 2022	Commentary
SHB	Sweden screens as a vulnerable country. Large exposure to CRE	€77.8bn, NPL ratio = 0.2%	Average LTV of 47% with 99.7% below 75%. 30 largest property management clients have ICR of 4.4x and LTV of 44%. Stressed for +350bps higher rates, ICR falls to 2.2x (no client below 1.0x)
Nordea	Underwritter of riskier loans + Swedish risk. Growing exposure to CRE.	€60.9bn, NPL ratio = 0.4%	€19bn of the book is to housing associations and other residential exposures. €10bn of other CRE and construction exposure to Sweden and €12bn to Norway. Average LTV described as "a little over 50%" at Q3 stage
Deutsche Bank	Underwritting of riskier borrowers	€50.5bn, NPL ratio = 2.6%	Company talks of a €33bn CRE exposure of which €22bn is in the US investment bank. €2-3bn refinances in 2023 and company guidance already assumes some provisions will be necessary. Back in 2020, disclosed average LTV of 60%
ING	Large underwritting of CRE bonds and loans	€44.2bn, NPL ratio = 1.7%	Well diversified capped book by geography and sector. Average LTV approx.50%
Erste	Above average CRE exposure and strong recent loan growth	€35.9bn, NPL ratio = 2.6%	Well diversified portfolio focused on major cities in Austria and CEE. Back in 2020, gave an average LTV of 60%, approx. 25% of the book is to Austrian housing associations.
Swedbank	Underwritter of riskier loans + Swedish risk	€35.5bn, NPL ratio = 0.1%	Average LTV of 52% with well spread portfolio (81% Sweden). Debt service tolerance stressed to rates 6-8%
SEB	Sweden screens as a vulnerable country. Large exposure to CRE	€33.8bn, NPL ratio = 0.1%	Average LTV of 45%. 20% largest clients have average ICR of 4.5x. In stressed scenario of 3% STIBOR average ICR would be 2.0x (no client below 1.0x)
DNB	Norway screens as a vulnerable country. Large and growing exposure to CRE	€30.8bn, NPL ratio = 0.7%	94% focused on Norway, with 75% classified as low risk (PD of $<0.75\%$). 14% of the portfolio in retail and shopping malls
NatWest	Underwritting of sub-investment grade bonds and loans	€30.8bn, NPL ratio = 1.2%	CRE book has shrunk by approx 15% since mid 2020. Disclosed average LTV of 48% at Q3 2022. Sub-IG underwritting relates largely to a single blackstone SPV.
всу	Switzerland screens as a vulnerable country. Large exposure to CRE	€9.7bn, NPL ratio = 0%	Real estate and construction accounts for 24% of customer loans. Impaired loans are zero, and existing provisions amount to CHF 4m (on performing exposure of CHF 9.7bn). We estimate that collateral is split roughly 25% commercial / 75% residential property
Data as of 28//0	14/2023 Source: Autonomous Research, Axiom Al		





- II. Key themes for the coming quarters
- **III.** Expected regulatory changes
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III. Expected regulatory changes

Liquidity Ratios and Interest Rate Hedging



Liquidity risk management

Basel Committee

- → New parameters on unstable deposits (Swiss private banks are the most vulnerable)
- → Concentration rules (to avoid SVB/First Republic/Silvergate situations)
- → Estimated impact on profitability: between 1% and 3%.

US

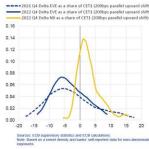
→ Abolition of the Trump measures (extension of liquidity rules to all banks)

Interest rate risk hedging

Europe

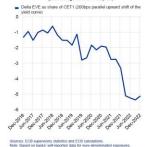
Longer-term effect on banks less benign than short-run effect due to duration mismatch

Change in Economic Value of Equity (EVE) and Net Interest Income (NII) across euro area banks (X-axis: percent of CET1 capital: y-axis: density)



Change in Economic Value of Equity (EVE)
across euro area banks over time

(percentage of CET1 capital)



→ Possible evolution: Move from Pillar 2 to Pillar 1 (as in Australia)

Data as of 28//04/2023 | Source: Autonomous Research, Axiom Al

US



Adjusting the FED's stress tests to better capture interest rate risk



- II. Key themes for the coming quarters
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IV. Q&A



Key Takeaways



A record first quarter

- 9th quarter in a row where results exceeded consensus.
- A combination of positive factors such as net interest margins up 35% vs. Q1 22, a contained decline in deposits (-1%), a controlled cost of risk (41 bps vs. 55 expected) and precautionary provisions that cover 2/3 of a typical recession
- A 25% to 30% upward revision of earnings expectations for 2023 and 2024 since January 2022.

Structural support elements

- The end of negative interest rates allows a return to ROE (return on equity) of over 10%.
- Overall annual sector return of around 14% (dividends, share buybacks, equity accretion) over 2023/2024/2025.

Valuations anticipate a very negative macroeconomic scenario

- Despite an estimated ROE of 10%-11%, the sector trades on price-to-book ratios of around 65%.
- This valuation implies a scenario of recession and a return to low or zero interest rates.
- In a classic recession scenario with a rate cut of up to 200 bps, the sector should recover moderately.
- A more optimistic scenario of a soft landing and rates sustainably above 200 bps would result in a >40% rise.

Key themes to watch

- Net interest income dynamics, between asset and hedge rollovers, deposit rate increases, and lending margins.
- Evolution of the level and mix of deposits (household versus corporate, insured versus non-insured, national champions versus small banks)
- Level of demand for mortgage loans and corporate loans
- Cost of risk dynamics and possible use of prudential provisions (equal to 2/3 of a normal provisioning year)
- A particular focus on commercial real estate (it represents 10% of total bank balance sheets in Europe compared to over 30% for US regional banks).



TAXIONI ALTERNATIVE INVESTMENTS

Thank you for attending the Axiom Alternative Investments webinar.

See you next quarter.