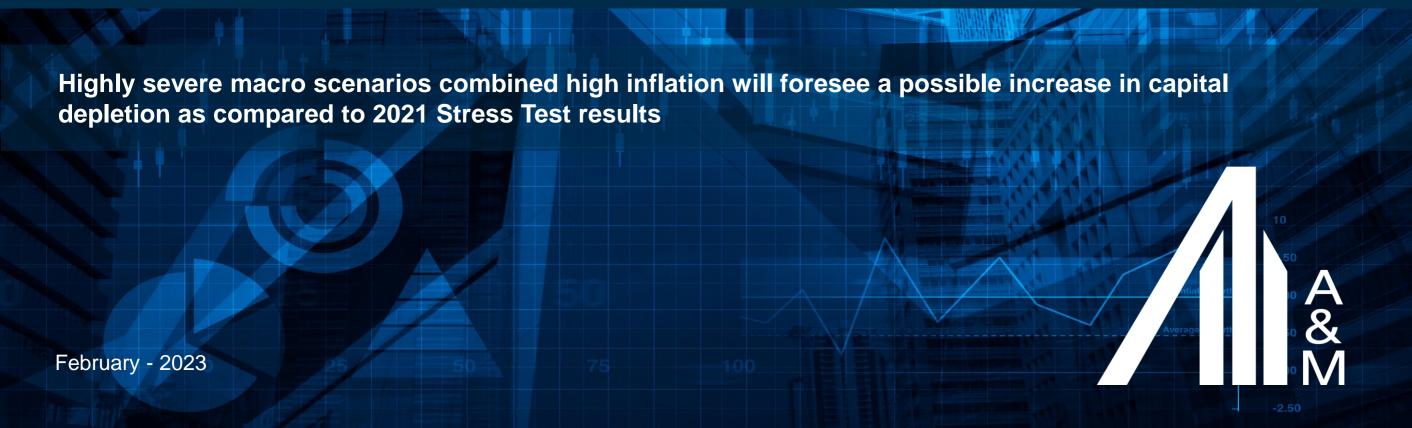


# 2023 EU Wide Stress Test Launch

ALVAREZ & MARSAL



# Executive Summary (1/2)

Much more severe macro scenarios compared to ST'21 and high inflation, which are not compensated by high rates, foresee a possible increase in capital depletion from previous exercises

	Net	Shock Impa	ct <sup>1</sup>	Base	eline Drop Im	pact
European Union Shocks	ST 2023	ST 2021	Severity Chg.	ST 2023	ST 2021	Severity Chg.
GDP (3-year ▼)	-6.0%	-3.6%	<b>^</b>	-9.8%	-12.9%	Ψ
Unemployment (3-year ▲)	6.1%	4.7%	<b>^</b>	5.9%	5.0%	<b>^</b>
Residential Property (3-year ▼)	-21.1%	-16.1%	<b>^</b>	-23.8%	-21.9%	<b>^</b>
Commercial Property (3-year ▼)	-29%	-31%	Ψ	-36%	-41%	•
10-year Long Term Rate (1-year ▲)	375bps	42bps	<b>^</b>	289bps	59bps	<b>^</b>
Equity Prices (1-year ▼)	-25%	-25%	<b>→</b>	-25%	-25%	<b>→</b>

- 1. Much worse GDP and unemployment rate shocks, with a 3-year net shock of 6% and 6.1% respectively. GDP shock compared to ST'21 is greater that 200 bps in all countries except for Portugal, Ireland, Netherland and Greece. Unemployment rate shows divergences across EU countries, with highest impact compared to ST'21 in Ireland.
- 2. Residential real estate prices are worse than in ST'21 (21% vs. 16%) and Commercial Real Estate slightly better (29% vs. 31% shock). Netherlands is by far the country most affected by RRE shocks (1391 bps difference compared to ST'21).
- 3. High discrepancies in GVA by sectors and countries, with overall higher 3-year impact in Mining, Manufacturing, Utilities and Transportation.
- 4. Drastically high interest rates (375bps of 10-year rate vs. 42 bps of ST'21) will have a negative impact in Capital through OCI Revaluation and NII pressure through methodology constrains and deposit passthrough effects.
- 5. Short- and long-term rates presents a very material increase in 2023, and slightly decreases in 2024-25. Sovereign spread shocks increase drastically in southern countries (+82bps vs. ST'21) and remains flat in the rest. No FX impact either in baseline or adverse for UK, US or Japan.
- **6. UK and US**: Much worse GDP, unemployment rate and Residential Real Estate (RRE) shocks vs St'21. For UK, shocks reaches 8.3%, 6.8% and 22% respectively, whereas for US the shocks hit 4.6%, 3% and 22% for the same macro variables. The scenario is more severe than the 2022 scenarios of the Bank of England and the Federal Reserve System.
- 7. Highest impact expected in 2024 due to accumulation of negative effects.



# Executive Summary (2/2)

#### Additional considerations of 2023 EU Wide Stress Test

**Increased sample banks**, from 50 to 76, covering 75% of the banking sector in the euro area, noneuro area EU Member States and Norway Scope Minimum threshold of EUR 30 bn, plus potential additional institutions at the discretion of competent authorities Very similar methodology compared to ST 2021. Main changes: Credit Risk: Additional template by sector, including starting point + projections; removal of moratoria restatement at credit risk starting point while methodology for PGS remains the same; NPL backstop calendar template becomes more relevant vs. ST'21; leverage finance template Methodology Operational Risk: removal of floor for conduct material risks for baseline scenario **Net Fees and Commission Income**: projections based on prescribed growth rate parameters based on supervisory top-down models **Proportionality features** for smaller banks **Exercise launched on 31 January 2023** ADC submission on 6 March and FDC1 on 28 March. Additional FDC submissions are expected Calendar until late June Results expected to be published in July 2023

#### SUMMARY OF SCENARIOS – MACRO EU COUNTRIES



The scenarios narrative shows geopolitical tensions leading to stagflation, with increased energy prices and production costs, further supply chain disruptions worldwide, inflation persistently high and pressures on economic activity.

Much worse GDP, unemployment rate and Residential Real Estate (RRE) shocks, with a 3-year net shock of 6%, 6.1% and 21% respectively.

GDP shocks present low discrepancies across countries compared to ST'21 and is greater that 200 bps vs. ST'21 in all countries except for Portugal, Ireland, Netherland and Greece. Unemployment rate shows divergences across EU countries, with higher impact compared to ST'21 in Ireland and France. Few countries such as Germany and Spain show slightly lower impacts vs. previous exercise. Netherlands is by far the country most affected by RRE shocks (1391 bps difference compared to ST'21), followed by Germany and Sweden.

	(	GDP (Net s	hock	)1	Unem	ployment (l	Net shock) <sup>1</sup>	House	House Price Index (Net shock) <sup>1</sup>			
	ST 2023	ST 2021	Di	ifference (bps)	ST 2023	ST 2021	Difference (bps)	ST 2023	ST 2021	Difference (bps)		
France	-574	-343		+231	595	435	+159	-1974	-1536	+439		
Germany	-643	-388		+256	409	485	-76	-2580	-1849	+731		
Greece	-548	-357		+191	478	475	+3	-630	-987	-357		
Ireland	-378	-302		+77	770	464	+306	-1106	-1323	-216		
Italy	-717	-388		+329	465	481	-16	-675	-652	+23		
Netherlands	-539	-427		+112	571	497	+74	-3243	-1851	+1391		
Portugal	-498	-445		+53	544	405	+140	-2543	-2543	+0		
Spain	-536	-323		+213	565	581	-16	-1942	-1697	+245		
Sweden	-783	-444		+340	594	607	-13	-3333	-2756	+577		
<b>European Union</b>	-601	-356		+245	607	473	+133	-2113	-1611	+502		

#### SUMMARY OF SCENARIOS - MACRO EU COUNTRIES



A new feature of ST'23 is the addition of GVA shocks by sector to model idiosyncratic credit risk impacts.

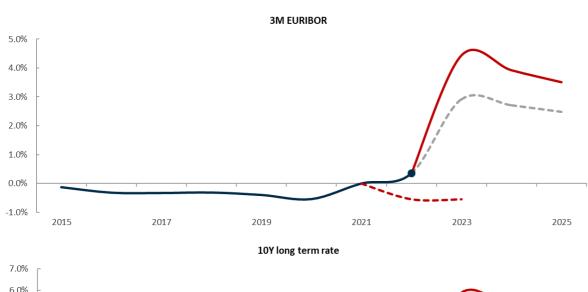
High discrepancies in sectorial GVA by countries, with overall higher 3-year impact in Mining (-12.8), Manufacturing (-11.3% and -7.8% for high and low intensity), Utilities (-8.9%) and Transportation (-8.4%). Low Energy Net shock (-1.1%) due to very positive performance in 2025 (average of +34.1% impact).

		20	023 Stress Test Macro Scen	narios - GVA Growth		
		Actual		Adve	erse	
		2022	2023	2024	2025	Net Shock (3years)
*	Agriculture	-2.1%	-4.0%	-4.9%	1.1%	-7.8%
	Mining	-3.4%	-10.1%	-12.5%	9.8%	-12.8%
Ĭ,	Manufacturing-High Intensity	2.9%	-5.3%	-8.8%	2.8%	-11.3%
Ŷ	Manufacturing-Low Intensity	3.2%	-2.8%	-5.2%	0.2%	-7.8%
食	Energy	-3.4%	-13.7%	-21.5%	34.1%	-1.1%
•	Utilities	-3.4%	-5.8%	-4.3%	1.1%	-8.9%
$\mathbf{\hat{I}}$	Construction	2.5%	-3.9%	-3.8%	0.8%	-7.0%
4	Wholesale	7.5%	-3.5%	-3.7%	0.9%	-6.3%
	Transportation	7.5%	-3.3%	-6.2%	1.1%	-8.4%
<u>•</u>	Accommodation	7.5%	0.8%	-4.5%	-0.3%	-4.0%
(( <b>-</b>   •)	Communication	4.9%	-2.0%	-3.1%	0.8%	-4.3%
$\hat{\mathbf{m}}$	Financial Activities	0.8%	-3.1%	-2.8%	0.5%	-5.4%
	Real Estate	1.7%	-3.1%	-1.7%	1.1%	-3.7%
	Professional Activities	4.4%	-3.9%	-3.8%	0.5%	-7.3%
B	Public Administration	1.1%	-1.8%	-1.6%	1.4%	-2.0%
<u></u>	Entertainment	12.7%	1.4%	-2.7%	1.0%	-0.2%

#### SUMMARY OF SCENARIOS – MARKET EU COUNTRIES



In the adverse scenario, 3M SWAP rate presents a significant increase in 2023, and slightly decreases in 2024-25. Same path is shown in long-term rate levels hits.





2021 EBA Stressed Scenario

Sovereign spread shocks increase drastically in southern countries (+82bps in Greece, Italy, Portugal and Spain relative to ST'21 shocks) and remains flat in the rest (+1bps in France, Germany, Ireland and Netherlands).

	Sov. o	redit sprea	ads (Net shock) <sup>1</sup>
	ST 2023	ST 2021	Difference (bps)
France	52	51	+1
Germany	52	51	+1
Greece	238	156	+82
Ireland	52	51	+1
Italy	238	156	+82
Netherlands	52	51	+1
Portugal	238	156	+82
Spain	238	156	+82

Note: (1) Net shocks reflect the total adverse effect to the macroeconomic indicator from 2020 levels (3-year shock), measured as bps

**EU Baseline** 

#### SUMMARY OF SCENARIOS - UK AND US

Much worse GDP, unemployment rate and Residential Real Estate (RRE) shocks for UK and US. For UK, shocks reaches 8.3%, 6.8% and 22% respectively, whereas for US the shocks hit 4.6%, 3% and 22% for the same macro variables. The scenario is more severe than the 2022 scenarios of the Bank of England and the Federal Reserve System, which in part reflects the use of updated data.

GDP (Net shock) <sup>1</sup>				Unemployment (Net shock) <sup>1</sup>				House Price Index (Net shock) <sup>1</sup>			
	ST 2023	ST 2021	Difference (bps) ST 2023 ST 2021 Difference (bps)		ST 2023 ST 20		ST 2021	Difference (bps)			
United Kingdom	-831	-414		+418	679	441		+238	-2172	-2328	-156
United States	-460	-373		+88	302	179		+124	-2172	-2328	-156

No FX impact for US and UK, either in baseline or adverse scenarios. Shocks in both countries lower than the implicit FX depreciation.

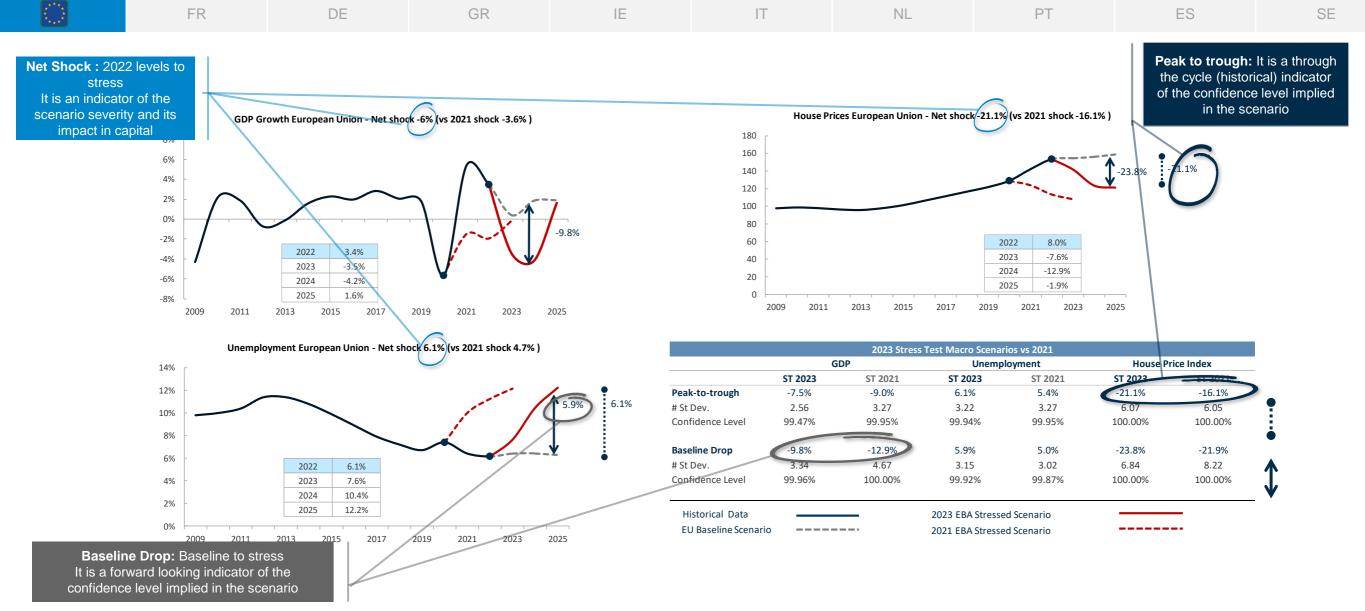
		FX (Net sh	nock) <sup>1</sup>		nterest Rates plicit FX dep		Interest Rate Disparity	
	ST 2023	ST 2021	Difference (pp)	ST 2023	ST 2021	Difference (pp)	ST 20	23
United Kingdom	0.0	0.0	+0.0	2.5	2.6	-0.1		-2.5
United States	0.0	0.0	+0.0	5.2	3.7	+1.5		-5.2

# Scenario Analysis – Macro Economic Variables

E	EU COUNTRIES
****	EU
	• FRANCE
	• GERMANY
	• GREECE
	• IRELAND
	• ITALY
	NETHERLANDS
8	• PORTUGAL
in the second	• SPAIN
	• SWEDEN

NOI	NON-EU COUNTRIES								
N	• UK								
	• US								

#### SCENARIO ANALYSIS – COMPREHENSIVE GUIDE



## MACRO-SCENARIO ANALYSIS – EU COUNTRIES (1/2)



FR

DE

GR

ΙE

ΙT

NL

PT

ES

SE

The stress scenario for EU displays a much higher shocks versus ST'21 test for GDP (net shock of -6% and -3.6% respectively), Unemployment rate (6.1% vs. 4.7%) and HPI (-21.1% vs. -16.1%).

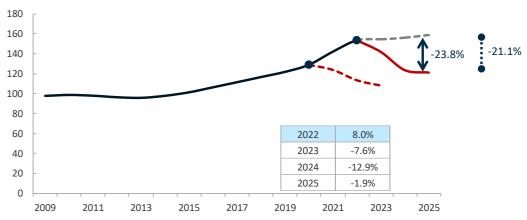
#### GDP Growth European Union - Net shock -6% (vs 2021 shock -3.6%)



#### Unemployment European Union - Net shock 6.1% (vs 2021 shock 4.7%)



#### House Prices European Union - Net shock -21.1% (vs 2021 shock -16.1% )



		2023 Stress Test Macro Scenarios vs 2021										
	G	DP	Unemp	oyment	House Pr	rice Index						
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021						
Peak-to-trough	-7.5%	-9.0%	6.1%	5.4%	-21.1%	-16.1%						
# St Dev.	2.56	3.27	3.22	3.27	6.07	6.05						
Confidence Level	99.47%	99.95%	99.94%	99.95%	100.00%	100.00%						
Baseline Drop	-9.8%	-12.9%	5.9%	5.0%	-23.8%	-21.9%						
# St Dev.	3.34	4.67	3.15	3.02	6.84	8.22						
Confidence Level	99.96%	100.00%	99.92%	99.87%	100.00%	100.00%						

Historical Data	2023 EBA Stressed Scenario
EU Baseline Scenario	 2021 FBA Stressed Scenario

## MACRO-SCENARIO ANALYSIS - EU COUNTRIES (2/2)



The scenarios narrative shows geopolitical tensions leading to stagflation, with increased energy prices and production costs, further supply chain disruptions worldwide, inflation persistently high and pressures on economic activity.

IT

NL

PT

ES

SE

High discrepancies in sectorial GVA by countries, with overall higher 3-year impact in Mining (-12.8), Manufacturing (-11.3% and -7.8% for high and low intensity), Utilities (-8.9%) and Transportation (-8.4%). Low Energy Net shock (-1.1%) due to very positive performance in 2025 (average of +34.1% impact).

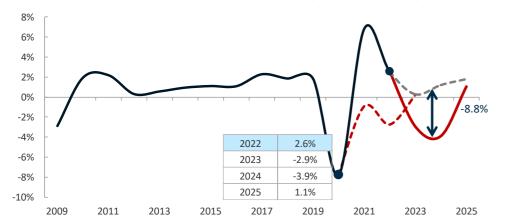
			20	023 Stres	s Test Macro Scen	arios - G	VA Growth					
			Actual				Adv	erse				
			2022		2023		2024		2025	'	Net S	hock (3years)
	Agriculture	-	2.1%		-4.0%		-4.9%		1.1%			-7.8%
	Mining	-	3.4%		-10.1%		-12.5%		9.8%			-12.8%
Ĭ,	Manufacturing-High Intensity	2	2.9%		-5.3%		-8.8%		2.8%			-11.3%
Å	Manufacturing-Low Intensity		3.2%		-2.8%		-5.2%		0.2%			-7.8%
食	Energy	-	3.4%		-13.7%		-21.5%		34.1%			-1.1%
•	Utilities	-	3.4%		-5.8%		-4.3%		1.1%			-8.9%
$\mathbf{\hat{I}}$	Construction	2	2.5%		-3.9%		-3.8%		0.8%			-7.0%
4	Wholesale	7	7.5%		-3.5%		-3.7%		0.9%			-6.3%
	Transportation	7	7.5%		-3.3%		-6.2%		1.1%			-8.4%
•	Accommodation	7	7.5%		0.8%		-4.5%		-0.3%			-4.0%
( <u>\$</u> )	Communication	4	1.9%		-2.0%		-3.1%		0.8%			-4.3%
$\hat{\mathbf{m}}$	Financial Activities	(	0.8%		-3.1%		-2.8%		0.5%			-5.4%
	Real Estate		1.7%		-3.1%		-1.7%		1.1%			-3.7%
	Professional Activities	4	1.4%		-3.9%		-3.8%		0.5%			-7.3%
	Public Administration		1.1%		-1.8%		-1.6%		1.4%			-2.0%
A.	Entertainment	1	12.7%		1.4%		-2.7%		1.0%			-0.2%

## MACRO-SCENARIO ANALYSIS - FRANCE (1/2)

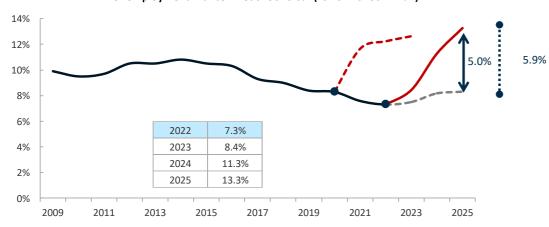
EU DE GR IE IT NL PT ES SE

In France, much worse scenario compared to ST'21 in the main 3 macro variables: GDP (net shock of -5.7% and -3.4% respectively), Unemployment rate increases (5.9% vs. 4.4%) and HPI (-19.7% vs. -15.4%). Slightly lower shocks as compared to average EU ones.

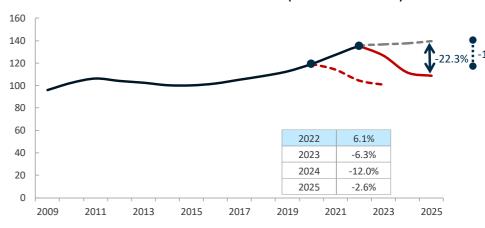
#### GDP Growth France - Net shock -5.7% (vs 2021 shock -3.4%)



#### Unemployment France - Net shock 5.9% (vs 2021 shock 4.4%)



#### House Prices France - Net shock -19.7% (vs 2021 shock -15.4%)



2023 Stress Test Macro Scenarios vs 2021											
	G	DP	Unemp	loyment	House Pi	rice Index					
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021					
Peak-to-trough	-6.7%	-11.1%	5.9%	4.4%	-19.7%	-15.4%					
# St Dev.	2.09	3.85	5.25	5.15	5.96	4.91					
Confidence Level	98.17%	99.99%	100.00%	100.00%	100.00%	100.00%					
Baseline Drop	-8.8%	-14.2%	5.0%	3.7%	-22.3%	-16.9%					
# St Dev.	2.73	4.91	4.37	4.41	6.74	5.40					
Confidence Level	99.68%	100.00%	100.00%	100.00%	100.00%	100.00%					

Historical Data 2023 EBA Stressed Scenario 2021 EBA Stressed Scenario

# MACRO-SCENARIO ANALYSIS – FRANCE (2/2)

EU DE GR IE IT NL PT ES SE

France shows high discrepancies in GVA by sectors, with highest impact on Mining (-19.9%), Manufacturing-high intensity (-13.7%) and Utilities (-11.5%). Very low impact on services-related sectors.

		Actual		Adve	erse	
		2022	2023	2024	2025	Net Shock (3years
	Agriculture	1.2%	-3.8%	-5.1%	0.4%	-8.4%
	Mining	-16.6%	-11.3%	-8.1%	-0.5%	-19.9%
T'	Manufacturing-High Intensity	2.0%	-5.4%	-9.5%	1.2%	-13.7%
Y	Manufacturing-Low Intensity	1.1%	-3.0%	-5.4%	-0.2%	-8.5%
食	Energy	-16.6%	-16.0%	-23.8%	34.3%	-5.5%
•	Utilities	-16.6%	-8.5%	-3.6%	0.7%	-11.5%
$\mathbf{\hat{I}}$	Construction	-0.4%	-1.8%	-2.8%	0.6%	-4.0%
4	Wholesale	7.1%	-3.3%	-3.5%	0.7%	-6.1%
	Transportation	7.1%	-3.1%	-6.3%	0.0%	-9.3%
4	Accommodation	7.1%	1.0%	-4.9%	-1.4%	-5.4%
( <b>L</b> ))	Communication	5.9%	-0.6%	-2.9%	0.8%	-2.7%
	Financial Activities	2.2%	-1.8%	-2.1%	0.9%	-3.0%
	Real Estate	1.1%	-3.3%	-2.2%	0.6%	-4.8%
	Professional Activities	2.8%	-4.2%	-4.1%	0.2%	-8.2%
	Public Administration	1.0%	-1.7%	-1.7%	0.8%	-2.5%
4.	Entertainment	20.2%	0.6%	-3.0%	0.6%	-1.9%

## MACRO-SCENARIO ANALYSIS – GERMANY (1/2)

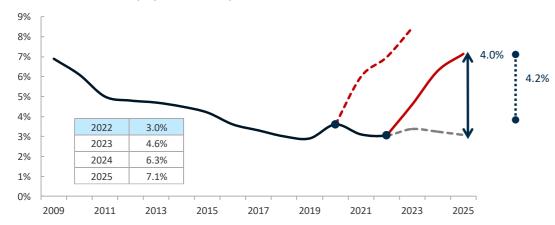
EU FR GR IE IT NL PT ES SE

Much worse scenario compared to ST'21 in GDP (net shock of -6.4% and -3.9% respectively) and HPI (-25.8% vs. -18.5%). These shocks are not compensated by the lower impact on Unemployment Rate, slightly better vs. ST'21 (4.1% and 4.8% respectively).

#### GDP Growth Germany - Net shock -6.4% (vs 2021 shock -3.9%)

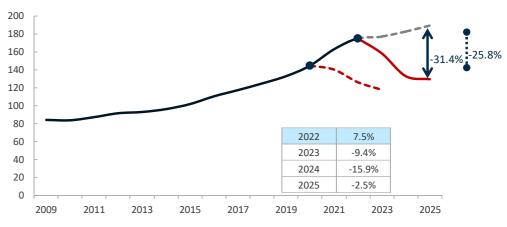


Unemployment Germany - Net shock 4.1% (vs 2021 shock 4.8%)



2023 EU Wide Stress Test Launch | February 2023

House Prices Germany - Net shock -25.8% (vs 2021 shock -18.5%)



		2023 Stress	Test Macro Scenar	ios vs 2021			
	G	DP	Unemp	loyment	<b>House Price Index</b>		
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021	
Peak-to-trough	-9.3%	-7.4%	4.2%	5.5%	-25.8%	-18.5%	
# St Dev.	3.43	2.57	3.46	4.53	7.76	6.66	
Confidence Level	99.97%	99.49%	99.97%	100.00%	100.00%	100.00%	
Baseline Drop	-10.4%	-12.2%	4.0%	4.9%	-31.4%	-28.7%	
# St Dev.	3.84	4.22	3.31	4.01	9.44	10.35	
Confidence Level	99.99%	100.00%	99.95%	100.00%	100.00%	100.00%	

Historical Data 2023 EBA Stressed Scenario
EU Baseline Scenario 2021 EBA Stressed Scenario

ALVAREZ & MARSAL LEADERSHIP ACTION. RESULTS."

## MACRO-SCENARIO ANALYSIS – GERMANY (2/2)

EU FR GR IE IT NL PT ES SE

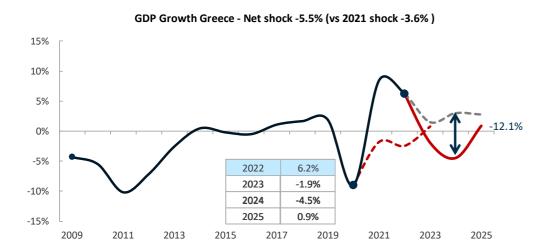
Germany shows high discrepancies in GVA by sectors, as well as different performance as compared to average EU. High positive GVA impact on Energy (+19.1%) due to the high recovery in 2025 (+69%). Similar behavior on Mining, where the positive 2025 performance (+38.7%) leads to a net shock of -2.9%, much lower vs. EU average. Worst net impact on Professional Activities (-10.8%) and Manufacturing (c. -9%).

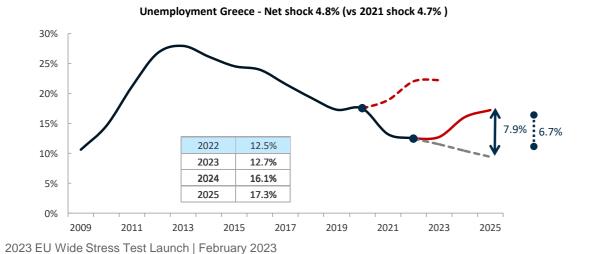
		:	2023 Stress Test Macro Scer	narios - GVA Growth		
		Actual		Adve	erse	
		2022	2023	2024	2025	Net Shock (3years)
	Agriculture	-4.4%	-4.8%	-5.8%	3.7%	-6.9%
	Mining	-0.4%	-16.0%	-25.6%	38.7%	-2.9%
Ĭ,	Manufacturing-High Intensity	-0.4%	-7.4%	-7.8%	6.2%	-9.0%
Ŷ.	Manufacturing-Low Intensity	1.7%	-5.5%	-5.6%	1.8%	-9.3%
食	Energy	-0.4%	-17.4%	-32.8%	69.3%	19.1%
<b>-</b>	Utilities	-0.4%	-5.2%	-4.4%	2.5%	-7.1%
$\mathbf{\hat{I}}$	Construction	-2.7%	-7.0%	-3.7%	1.8%	-8.9%
4	Wholesale	4.9%	-5.3%	-4.4%	1.9%	-7.8%
	Transportation	4.9%	-5.0%	-5.9%	3.4%	-7.5%
04	Accommodation	4.9%	0.0%	-4.7%	1.0%	-3.7%
( <u>♣</u> ))	Communication	2.3%	-4.3%	-3.1%	1.6%	-5.9%
$\hat{\mathbf{m}}$	Financial Activities	4.5%	-4.2%	-4.2%	0.1%	-8.2%
	Real Estate	0.5%	-4.2%	-1.4%	1.5%	-4.1%
	Professional Activities	2.1%	-6.9%	-4.6%	0.7%	-10.8%
	Public Administration	2.8%	-0.8%	-0.6%	2.2%	0.8%
$\mathbf{A}$	Entertainment	7.5%	0.4%	-1.8%	1.5%	0.1%

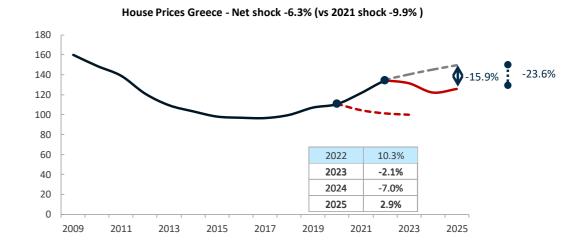
# MACRO-SCENARIO ANALYSIS – GREECE (1/2)

EU FR DE ES SE

In Greece, main macro variables are less penalized compared to EU average: GDP (-5.5%) and HPI (-6.3%). Unemployment rate remains almost flat vs. ST'21 (4.8% and 4.7% respectively).







		2023 Stres	s Test Macro Scenar	ios vs 2021			
	GI	DP	Unemp	loyment	<b>House Price Index</b>		
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021	
Peak-to-trough	-21.1%	-30.0%	6.7%	11.6%	-23.6%	-37.6%	
# St Dev.	3.90	7.03	1.17	2.19	3.16	6.15	
Confidence Level	100.00%	100.00%	87.84%	98.59%	99.92%	100.00%	
Baseline Drop	-12.1%	-14.8%	7.9%	8.3%	-15.9%	-16.5%	
# St Dev.	2.23	3.47	1.38	1.57	2.13	2.70	
Confidence Level	98.71%	99.97%	91.57%	94.16%	98.36%	99.66%	
Historical Data			2023 EBA Stresse	d Scenario			
EU Baseline Scenario			2021 EBA Stresse	d Scenario			

# MACRO-SCENARIO ANALYSIS – GREECE (2/2)

EU FR DE ES SE

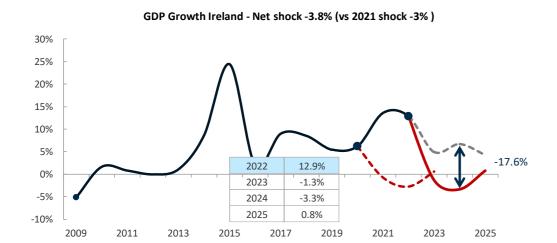
Higher GVA impacts compared to EU average. Most impacted sectors are Manufacturing – high intensity (-22.7%), Mining (-14.8%) and Transportation (-10.4%).

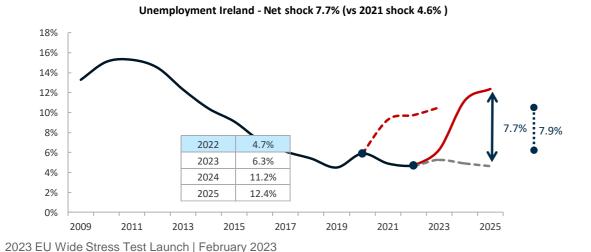
		Actual		Adve	erse	
		2022	2023	2024	2025	Net Shock (3years
	Agriculture	-0.8%	-3.1%	-5.1%	-0.1%	-8.3%
	Mining	1.5%	-4.6%	-8.6%	-1.6%	-14.8%
T'	Manufacturing-High Intensity	3.9%	-6.9%	-15.3%	-0.5%	-22.7%
Y	Manufacturing-Low Intensity	6.8%	-3.0%	-7.5%	-0.5%	-11.0%
食	Energy	1.5%	-2.2%	-9.8%	4.2%	-7.7%
•	Utilities	1.5%	-0.7%	-5.8%	0.8%	-5.7%
$\mathbf{\hat{I}}$	Construction	15.8%	-0.8%	-6.3%	0.5%	-6.6%
4	Wholesale	14.0%	-1.7%	-4.8%	1.0%	-5.5%
	Transportation	14.0%	-2.8%	-7.4%	-0.2%	-10.4%
4	Accommodation	14.0%	0.0%	-3.7%	1.4%	-2.3%
( <b>L</b> ))	Communication	2.8%	0.1%	-3.8%	0.7%	-3.0%
	Financial Activities	-3.9%	1.7%	-2.3%	0.8%	0.2%
1	Real Estate	0.0%	-0.4%	-1.1%	2.3%	0.9%
	Professional Activities	8.4%	-1.3%	-4.2%	0.1%	-5.4%
8	Public Administration	-1.5%	-1.9%	-1.6%	0.6%	-2.9%
4.	Entertainment	22.6%	-3.0%	-2.4%	0.5%	-4.9%

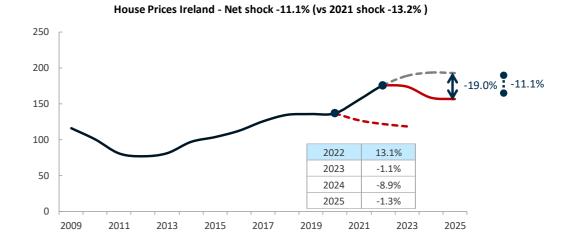
## MACRO-SCENARIO ANALYSIS - IRELAND (1/2)

EU FR DE GR IT NL PT ES SE

Ireland is one of the less shocked EU countries. GDP 3-year net shock decreases –3.8% ST'23 vs. -3% ST'21. Unemployment stress goes from 4.6% to 7.7% and HPI shock goes from -13.2% to -11.1% in ST'23. However, Ireland is the country with the highest GDP impact when comparing Baseline vs Adverse scenario.







		2023 Stres	s Test Macro Scenar	ios vs 2021			
	G	DP	Unemp	loyment	House Price Index		
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021	
Peak-to-trough	-4.6%	-3.6%	7.9%	6.0%	-11.1%	-13.2%	
# St Dev.	0.62	0.48	1.88	1.48	0.99	1.18	
Confidence Level	73.20%	68.56%	97.00%	93.09%	84.00%	88.01%	
Baseline Drop	-17.6%	-12.8%	7.7%	3.7%	-19.0%	-7.9%	
# St Dev.	2.38	1.74	1.85	0.92	1.71	0.70	
Confidence Level	99.14%	95.88%	96.79%	82.01%	95.62%	75.91%	
Historical Data EU Baseline Scenario			2023 EBA Stresse 2021 EBA Stresse				

# MACRO-SCENARIO ANALYSIS – IRELAND (2/2)

EU FR DE GR IT NL PT ES SE

Most impacted sectors in Ireland are Manufacturing – high intensity (-38.9%), Utilities (-36.5%) and Energy (-35.1%). The shocks presented in these three sectors are the most severe across all sectors in the EU countries.

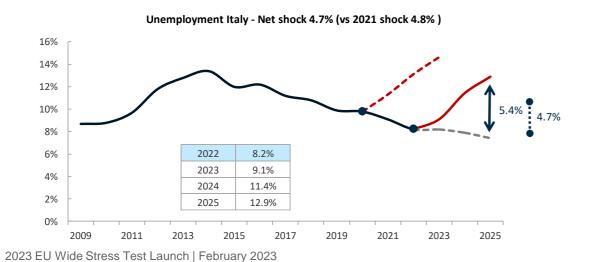
		2	023 St	ress Test Macro Sce	narios -	GVA Growth				
		Actual				Adv	erse			
		2022		2023		2024		2025	Ne	et Shock (3years)
	Agriculture	11.5%		4.4%		-2.5%		2.1%		3.9%
	Mining	-25.2%		-36.8%		-7.0%		5.0%		-38.9%
T'	Manufacturing-High Intensity	21.3%		3.6%		-4.5%		2.4%		1.5%
<b>Y</b>	Manufacturing-Low Intensity	20.1%		3.7%		-3.7%		0.1%		0.1%
食	Energy	-25.2%		-38.1%		-10.5%		13.4%		-35.1%
<b>–</b>	Utilities	-25.2%		-35.2%		-3.0%		1.7%		-36.5%
$\mathbf{\hat{I}}$	Construction	14.7%		-0.6%		-3.4%		0.7%		-3.3%
44	Wholesale	9.8%		-2.6%		-5.1%		-1.1%		-8.8%
	Transportation	9.8%		-2.5%		-5.8%		-0.2%		-8.5%
<u></u>	Accommodation	9.8%		-2.9%		-6.4%		-1.2%		-10.5%
( <u>\$</u> ))	Communication	11.4%		-2.4%		-0.6%		2.1%		-0.8%
血	Financial Activities	2.9%		-5.5%		-5.0%		-0.7%		-11.2%
	Real Estate	4.7%		1.7%	1	1.2%		2.3%		5.2%
	Professional Activities	2.2%		-2.7%		-2.2%		0.4%		-4.5%
B	Public Administration	2.3%		-2.8%		-6.4%		-1.4%		-10.7%
<b></b> .	Entertainment	15.6%		-0.4%		-4.6%		0.1%		-4.8%

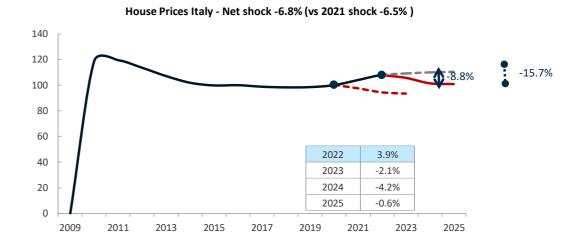
# MACRO-SCENARIO ANALYSIS - ITALY (1/2)

EU FR DE GR IE NL PT ES SE

Italy presents much worse impacts vs. ST'21 on GDP net shock (-7.2% vs. -3.9%), and almost the same impact in the Unemployment rate and the HPI (4.7% vs 4.8% and-6.8% vs. -6.5%, respectively). The GDP shock is above the EU average.







		2023 Stres	ss Test Macro Scenar	ios vs 2021			
	G	DP	Unemp	loyment	House Price Index		
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021	
Peak-to-trough	-8.2%	-12.6%	4.7%	5.9%	-15.7%	-21.8%	
# St Dev.	2.13	3.80	2.80	3.80	4.89	8.37	
Confidence Level	98.34%	99.99%	99.75%	99.99%	100.00%	100.00%	
Baseline Drop	-9.7%	-12.6%	5.4%	5.1%	-8.8%	-8.4%	
# St Dev.	2.52	3.80	3.28	3.28	2.72	3.22	
Confidence Level	99.41%	99.99%	99.95%	99.95%	99.68%	99.94%	
Historical Data			2023 EBA Stresse	d Scenario		_	
EU Baseline Scenario			2021 EBA Stresse	d Scenario			

# MACRO-SCENARIO ANALYSIS – ITALY (2/2)

EU FR DE GR IE NL PT ES SE

The sectorial shock in Italy shows high differences across sectors. Manufacturing – high and low intensity are the sectors with the highest impact (-15.9% and -10.4% respectively). Energy is the only sector with a positive net shock, explained by the high 2025 recovery (+55%).

		20	023 Stress Test Macro Scena	arios - GVA Growth		
		Actual		Adve	rse	
		2022	2023	2024	2025	Net Shock (3years)
	Agriculture	-0.9%	-4.2%	-5.8%	0.7%	-9.2%
	Mining	-0.7%	-8.1%	-20.7%	24.8%	-3.9%
T'	Manufacturing-High Intensity	1.3%	-4.9%	-12.4%	1.4%	-15.9%
食	Manufacturing-Low Intensity	1.5%	-2.4%	-6.9%	-1.1%	-10.4%
養	Energy	-0.7%	-12.5%	-34.3%	55.0%	8.2%
	Utilities	-0.7%	-4.3%	-6.0%	0.7%	-9.6%
$\mathbf{\hat{I}}$	Construction	10.7%	-3.4%	-6.2%	-0.5%	-10.2%
4	Wholesale	8.7%	-1.7%	-4.6%	0.1%	-6.1%
	Transportation	8.7%	-1.7%	-7.7%	0.8%	-8.6%
<u></u>	Accommodation	8.7%	-0.6%	-5.4%	0.5%	-5.6%
( <b>)</b>	Communication	3.1%	-1.0%	-3.5%	0.3%	-4.2%
血	Financial Activities	-4.8%	-3.2%	-3.4%	-0.3%	-6.9%
	Real Estate	4.7%	-2.3%	-1.5%	0.8%	-3.0%
	Professional Activities	3.2%	-3.2%	-5.0%	-0.2%	-8.4%
	Public Administration	0.8%	-2.1%	-3.3%	0.8%	-4.6%
	Entertainment	7.9%	-0.7%	-3.8%	1.3%	-3.3%

## MACRO-SCENARIO ANALYSIS - NETHERLANDS (1/2)

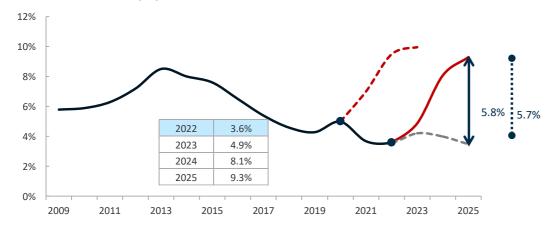
EU FR DE GR IE IT PT ES SE

As compared to ST'21, net shock for GDP is more severe (-5.4% vs. -4.3%), similarly to unemployment rate (5.7% vs. 5%). HPI shock is the highest one compared to EU countries (-32.4% vs. -18.5%), with the worst growth rate of -19.8% in 2024.

#### GDP Growth Netherlands - Net shock -5.4% (vs 2021 shock -4.3%)



#### Unemployment Netherlands - Net shock 5.7% (vs 2021 shock 5%)



#### 2023 EU Wide Stress Test Launch | February 2023

#### House Prices Netherlands - Net shock -32.4% (vs 2021 shock -18.5%)



	G	DP	Unemp	loyment	House Price Index		
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021	
Peak-to-trough	-5.7%	-8.0%	5.7%	5.7%	-32.4%	-18.5%	
# St Dev.	2.21	3.47	3.66	4.20	4.36	3.21	
Confidence Level	98.64%	99.97%	99.99%	100.00%	100.00%	99.93%	
Baseline Drop	-9.0%	-11.3%	5.8%	5.4%	-27.9%	-22.9%	
# St Dev.	3.53	4.91	3.72	3.98	3.76	3.97	
Confidence Level	99.98%	100.00%	99.99%	100.00%	99.99%	100.00%	

Historical Data	 2023 EBA Stressed Scenario
EU Baseline Scenario	 2021 EBA Stressed Scenario

## MACRO-SCENARIO ANALYSIS - NETHERLANDS (2/2)

EU FR DE GR IE IT PT ES SE

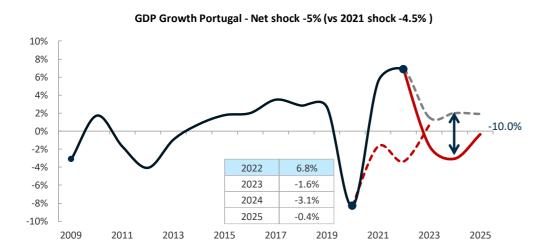
Netherlands shows a negative net shock in almost all sectors, with the highest impact in most of them presented in 2024; however, this behavior is mostly aligned with the EU average. Mining and Manufacturing – high intensity are the sectors with the highest shock (-13.4% and -10.4% respectively).

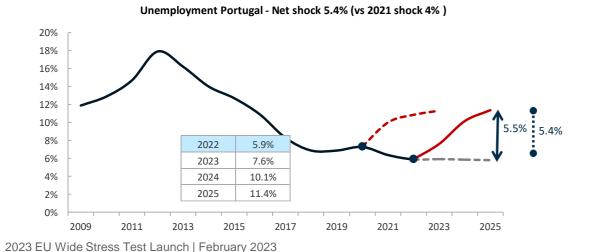
			202	23 Stress Test N	lacro Scenarios - GV	A Growth				
		Actı	ual			Advers	se			
		202	22	2023		2024	2	025	Net S	hock (3years)
	Agriculture	-0.7	7%	-1.9%		-4.5%	-1	.0%		-7.4%
	Mining	2.9	%	-5.9%		-10.2%	2.	7%		-13.4%
T'	Manufacturing-High Intensity	4.1	%	-3.8%		-6.5%	-0	.1%		-10.4%
食	Manufacturing-Low Intensity	2.5	%	-2.0%		-4.7%	0.	0%		-6.7%
養	Energy	2.9	%	-3.0%		-8.0%	7.	8%	[	-3.2%
	Utilities	2.9	%	-2.2%		-4.6%	0.	2%		-6.7%
$\hat{\mathbf{I}}$	Construction	2.1	%	-3.3%		-3.6%	0.	8%		-6.2%
四	Wholesale	7.0	%	-3.0%		-3.4%	0.	1%		-6.4%
	Transportation	7.0	%	-2.5%		-5.8%	-0	.5%		-8.8%
<u>•</u>	Accommodation	7.0	%	6.2%		-8.0%	-3	.6%		-5.4%
( <b>L</b> ))	Communication	3.9	%	-0.8%		-4.3%	0.	4%		-4.8%
血	Financial Activities	-3.0	0%	-4.8%		-2.9%	-0	.1%		-7.8%
	Real Estate	3.9	%	-1.3%		-1.9%	0.	4%		-2.7%
	Professional Activities	7.8	%	-3.3%		-4.6%	-0	.4%		-8.3%
	Public Administration	2.1	%	-0.4%		-0.3%	1.	1%		0.4%
	Entertainment	34.	5%	6.4%		-4.8%	-0	.3%		1.3%

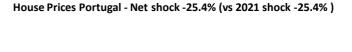
# MACRO-SCENARIO ANALYSIS - PORTUGAL (1/2)

EU FR DE GR ΙE ΙT NL ES SE

Slightly worse projections for Portugal compared to ST'21. While GDP and Unemployment shocks are slightly more severe (-5% vs. -4.5% and 5.4% vs. 4% respectively) HPI net shock remains flat compared to ST'21 (-25.4%).









	GDP		Unemp	Unemployment		House Price Index	
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021	
Peak-to-trough	-5.0%	-12.9%	5.4%	4.4%	-25.4%	-25.4%	
# St Dev.	1.25	3.66	1.37	1.19	4.02	4.16	
Confidence Level	89.36%	99.99%	91.42%	88.34%	100.00%	100.00%	
Baseline Drop	-10.0%	-14.1%	5.5%	3.9%	-31.3%	-28.4%	
# St Dev.	2.50	4.00	1.37	1.06	4.94	4.65	
Confidence Level	99.38%	100.00%	91.54%	85.51%	100.00%	100.00%	

Historical Data 2023 EBA Stressed Scenario EU Baseline Scenario 2021 EBA Stressed Scenario

> ALVAREZ & MARSAL LEADERSHIP. ACTION. RESULTS."

# MACRO-SCENARIO ANALYSIS - PORTUGAL (2/2)

EU FR DE GR IE IT NL BS SE

All sectors present a negative net shock, being Mining is the sector with the highest impact (-13.9%).

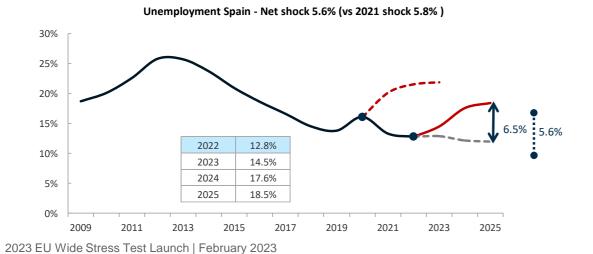
2023 Stress Test Macro Scenarios - GVA Growth								
		Actual						
		2022	2023	2024	2025	Net Shock (3years)		
	Agriculture	-5.8%	-4.0%	-3.8%	-1.1%	-9.0%		
	Mining	-3.7%	-4.6%	-6.2%	-3.1%	-13.9%		
Ĭ,	Manufacturing-High Intensity	4.2%	-2.3%	-3.7%	-1.5%	-7.5%		
Y	Manufacturing-Low Intensity	5.7%	-2.5%	-4.6%	-1.7%	-8.8%		
食	Energy	-3.7%	-4.0%	-7.3%	4.1%	-7.2%		
٠	Utilities	-3.7%	-2.8%	-3.1%	-0.2%	-6.0%		
$\mathbf{\hat{I}}$	Construction	0.1%	-4.0%	-3.5%	-1.7%	-9.3%		
4	Wholesale	18.0%	-0.3%	-3.0%	-0.3%	-3.6%		
	Transportation	18.0%	-0.6%	-4.5%	-2.1%	-7.2%		
4	Accommodation	18.0%	0.7%	-2.7%	-0.7%	-2.7%		
( <b>L</b> ))	Communication	4.8%	-1.8%	-3.2%	-0.7%	-5.7%		
血	Financial Activities	-0.1%	-1.8%	-2.0%	0.5%	-3.3%		
	Real Estate	1.5%	-2.0%	-1.8%	0.9%	-2.9%		
	Professional Activities	11.0%	-2.5%	-3.3%	-0.9%	-6.7%		
	Public Administration	3.2%	-1.4%	-2.4%	-0.1%	-3.9%		
	Entertainment	4.3%	-1.8%	-2.2%	0.2%	-3.9%		

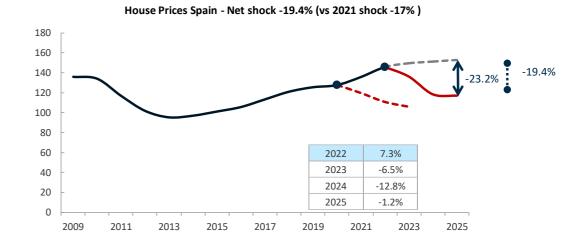
## MACRO-SCENARIO ANALYSIS - SPAIN (1/2)

EU FR DE GR IE IT NL PT SE

While in Spain GDP net shock is higher vs. ST'21 (-5.4% vs. -3.2%) and HPI adverse projections shows a more severe shock (-19.4% vs. -17%), unemployment rate shock is slightly lower (5.6% vs. 5.8%).







2023 Stress Test Macro Scenarios vs 2021								
	G	GDP		GDP Unemployment		<b>House Price Index</b>		
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021		
Peak-to-trough	-7.4%	-14.6%	5.6%	8.1%	-19.4%	-22.0%		
# St Dev.	1.69	3.46	1.26	1.97	2.74	3.05		
Confidence Level	95.49%	99.97%	89.56%	97.57%	99.69%	99.89%		
Baseline Drop	-10.9%	-14.5%	6.5%	7.6%	-23.2%	-21.2%		
# St Dev.	2.49	3.44	1.45	1.86	3.26	2.95		
Confidence Level	99.36%	99.97%	92.62%	96.86%	99.95%	99.84%		
Historical Data	Historical Data		2023 EBA Stressed Scenario					
EU Baseline Scenari	o		2021 EBA Stressed Scenario					

# MACRO-SCENARIO ANALYSIS – SPAIN (2/2)

EU FR DE GR IE IT NL PT SE

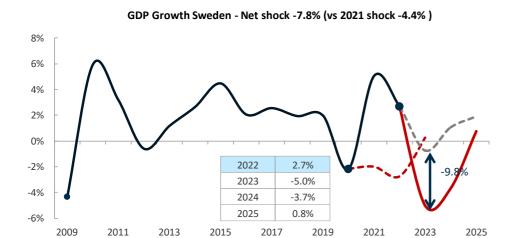
Very different shocks in Spain by sector. Manufacturing – high intensity is the sector with the highest impact (-24.1%) followed by Mining (-13.4%) and Transportation (-11.6%), while entertainment is the only one with a positive shock a cumulative growth of 5.9%.

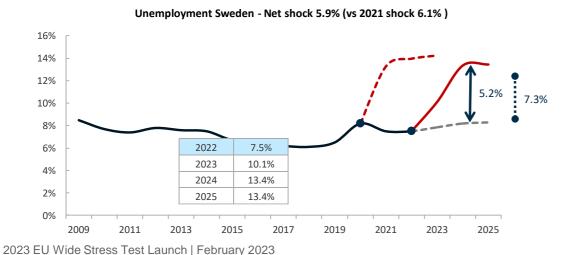
2023 Stress Test Macro Scenarios - GVA Growth											
			Actual	Adverse							
			2022		2023		2024		2025	N	et Shock (3years)
	Agriculture		-1.2%		-4.3%		-3.0%		0.1%		-7.2%
200	Mining		0.1%		-5.2%		-6.7%		-1.5%		-13.4%
T'	Manufacturing-High Intensity		4.1%		-6.4%		-12.4%		-5.3%		-24.1%
Y	Manufacturing-Low Intensity		3.0%		-1.0%		-4.7%		-1.2%		-6.9%
食	Energy		0.1%		-6.7%		-4.2%		3.0%		-7.9%
٠	Utilities		0.1%		-3.0%		-3.4%		0.0%		-6.3%
$\mathbf{\hat{I}}$	Construction		3.8%		-2.3%		-3.6%		-0.6%		-6.5%
4	Wholesale		15.9%		-1.4%		-1.7%		0.8%		-2.3%
	Transportation		15.9%		-2.0%		-7.1%		-2.6%		-11.6%
4	Accommodation		15.9%		0.4%		-2.0%		0.3%		-1.2%
<b>(</b>	Communication		8.0%		-1.3%		-2.3%		0.4%		-3.1%
	Financial Activities		-5.8%		-2.8%		-1.7%		0.4%		-4.1%
1	Real Estate		-0.6%		-4.2%		0.0%		1.6%		-2.5%
	Professional Activities		6.8%		-1.6%		-1.8%		0.7%		-2.7%
	Public Administration		-4.3%		-3.6%		-1.5%		0.4%		-4.6%
	Entertainment		16.3%		5.7%		-0.8%		1.1%		5.9%

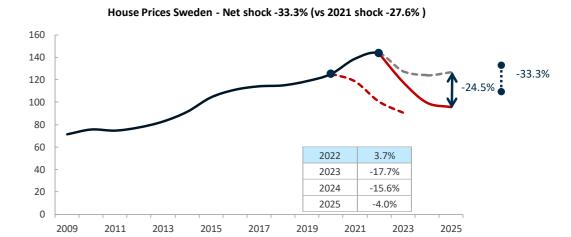
## MACRO-SCENARIO ANALYSIS – SWEDEN (1/2)

EU FR DE GR IE IT NL PT ES

GDP net shock is higher than the ST'21 (-7.8% vs. -4.4%), unemployment rate shock is slightly lower (5.9% vs. 6.1%) and HPI shows a more severe shock (-33.3% vs. -27.6%). Sweden is one of the countries with the highest GDP and HPI net shock in comparison to the EU average.







2023 Stress Test Macro Scenarios vs 2021								
	G	DP	Unemployment		<b>House Price Index</b>			
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021		
Peak-to-trough	-8.5%	-6.8%	7.3%	8.2%	-33.3%	-27.6%		
# St Dev.	3.09	2.41	10.00	10.32	7.82	6.41		
Confidence Level	99.90%	99.20%	100.00%	100.00%	100.00%	100.00%		
Baseline Drop	-9.8%	-13.0%	5.2%	6.7%	-24.5%	-34.8%		
# St Dev.	3.57	4.63	7.03	8.46	5.74	8.08		
Confidence Level	99.98%	100.00%	100.00%	100.00%	100.00%	100.00%		
Historical Data			2023 EBA Stressed Scenario			_		
EU Baseline Scenario			2021 EBA Stressed Scenario					

ALVAREZ & MARSAL LEADERSHIP ACTION. RESULTS:"

# MACRO-SCENARIO ANALYSIS – SWEDEN (2/2)

EU FR DE GR IE IT NL PT ES

All sectors present a negative net shock, the highest impact is presented during the first two years with a slow recovery at the end of the exercise. Mining is the sector with the highest impact (-13.7%).

		2	023 Stress Test Macro Scen	narios - GVA Growth		
		Actual		erse		
		2022	2023	2024	2025	Net Shock (3years)
	Agriculture	-3.3%	-5.0%	-3.4%	0.1%	-8.2%
	Mining	1.1%	-5.1%	-6.3%	-2.3%	-13.7%
T'	Manufacturing-High Intensity	6.3%	-4.8%	-7.1%	-0.7%	-12.5%
<b>M</b>	Manufacturing-Low Intensity	0.6%	-1.5%	-7.2%	-2.8%	-11.6%
食	Energy	1.1%	-6.9%	-7.0%	1.3%	-12.6%
•	Utilities	1.1%	-3.6%	-3.2%	0.4%	-6.4%
1	Construction	4.7%	-4.3%	-3.2%	0.8%	-6.8%
4	Wholesale	3.9%	-6.3%	-4.0%	0.7%	-9.7%
	Transportation	3.9%	-4.1%	-5.2%	-0.1%	-9.5%
•	Accommodation	3.9%	2.8%	-6.6%	-3.3%	-7.0%
(( <b>L</b> ))	Communication	5.5%	-4.6%	-4.4%	-0.3%	-9.4%
$\hat{\mathbf{m}}$	Financial Activities	0.8%	-5.7%	-3.2%	0.6%	-8.2%
	Real Estate	1.5%	-4.3%	-2.8%	-0.1%	-7.2%
	Professional Activities	9.4%	-5.0%	-4.0%	0.6%	-8.4%
	Public Administration	-0.8%	-4.4%	0.1%	3.0%	-1.4%
44.	Entertainment	6.8%	-1.5%	-1.6%	1.4%	-1.6%

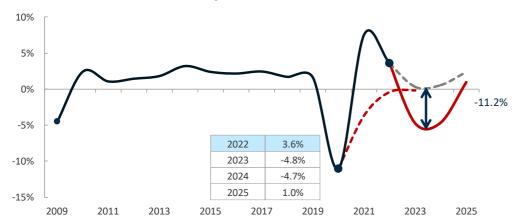
#### MACRO-SCENARIO ANALYSIS - UNITED KINGDOM

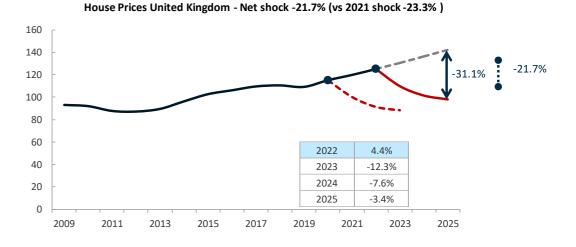


**UNITED STATES** 

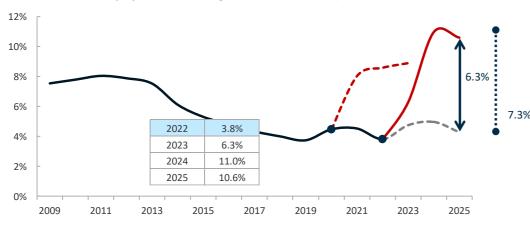
GDP and HPI in UK show a more severe shock compared to EU average and presents a more severe GDP and Unemployment shock vs ST'21 (-8.3% vs. 4.1%, and 6.8% vs. 4.4%). Meanwhile, HPI shock is slightly lower vs. ST'21 (21.7%% vs. 23.3%).

#### GDP Growth United Kingdom - Net shock -8.3% (vs 2021 shock -4.1%)





#### Unemployment United Kingdom - Net shock 6.8% (vs 2021 shock 4.4%)



Peak-to-trough	-10.0%	-14.7%	7.3%	5.1%	-21.7%	-23.3%	
# St Dev.	2.34	3.59	4.27	3.03	6.17	6.21	
Confidence Level	99.03%	99.98%	100.00%	99.88%	100.00%	100.00%	
Baseline Drop	-11.2%	-13.9%	6.3%	3.7%	-31.1%	-29.6%	
# St Dev.	2.62	3.39	3.74	2.19	8.84	7.90	
Confidence Level	99.55%	99.96%	99.99%	98.58%	100.00%	100.00%	
Historical Data		_	2023 EBA Stressed Scenario			_	
EU Baseline Scenario	EU Baseline Scenario		2021 EBA Stresse	d Scenario			

2023 Stress Test Macro Scenarios vs 2021

ST 2023

Unemployment

ST 2021

**GDP** 

ST 2021

ST 2023

**House Price Index** 

ST 2021

ST 2023

## MACRO-SCENARIO ANALYSIS - UNITED STATES

UNITED KINGDOM

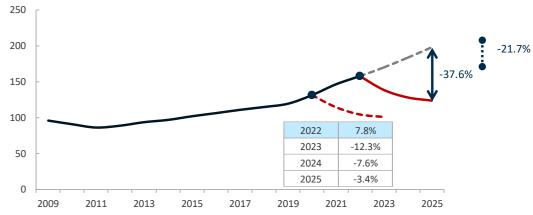


Like the UK, GDP and HPI for US show a more severe shock compared to the EU average. US presents a more severe GDP and Unemployment shock compared to previous exercise (-4.6% vs. 3.7%, and 3% vs. 1.8% respectively), while HPI shock is slightly lower (21.7%% vs. 23.3%).

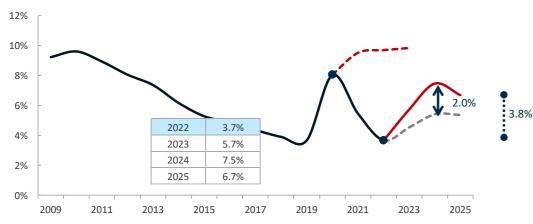
## GDP Growth United States - Net shock -4.6% (vs 2021 shock -3.7%)



#### House Prices United States - Net shock -21.7% (vs 2021 shock -23.3%)



#### Unemployment United States - Net shock 3% (vs 2021 shock 1.8%)



Historical Data	 2023 EBA Stressed Scenario
EU Baseline Scenario	 2021 EBA Stressed Scenario

	G	DP	Unemp	Unemployment		House Price Index	
	ST 2023	ST 2021	ST 2023	ST 2021	ST 2023	ST 2021	
Peak-to-trough	-5.7%	-6.6%	3.8%	6.2%	-21.7%	-23.3%	
# St Dev.	2.61	3.34	1.75	2.83	4.50	5.24	
Confidence Level	99.55%	99.96%	95.97%	99.76%	100.00%	100.00%	
Baseline Drop	-8.3%	-11.3%	2.0%	4.8%	-37.6%	-34.8%	
# St Dev.	3.81	5.74	0.94	2.18	7.78	7.83	
Confidence Level	99.99%	100.00%	82.66%	98.53%	100.00%	100.00%	

## TRADING MARKET RISK ANALYSIS - INTEREST RATES



INTEREST RATES

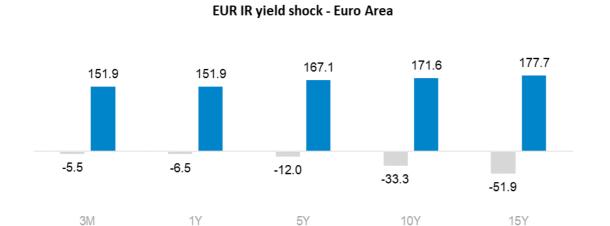
**SOVEREIGN SHOCKS** 

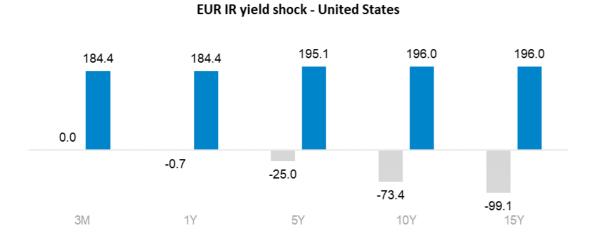
**FX TRADING SHOCKS** 

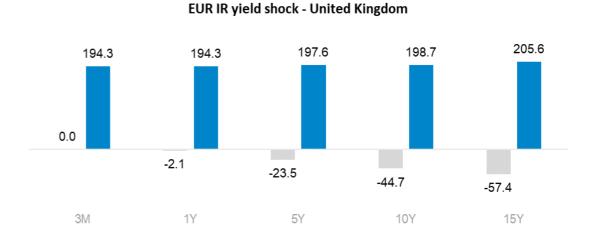
**EQUITY SHOCKS** 

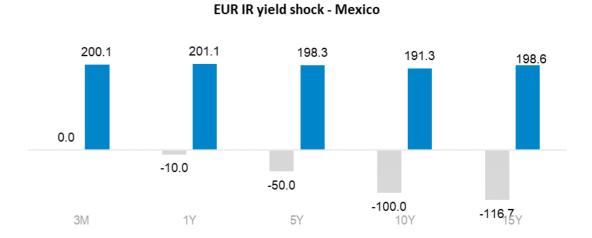
**CREDIT SPREADS** 

Positive and very high interest rate scenarios across term yields and markets. Yield shocks higher than 150pb for all markets, reaching 205bp the 15y yield in UK.







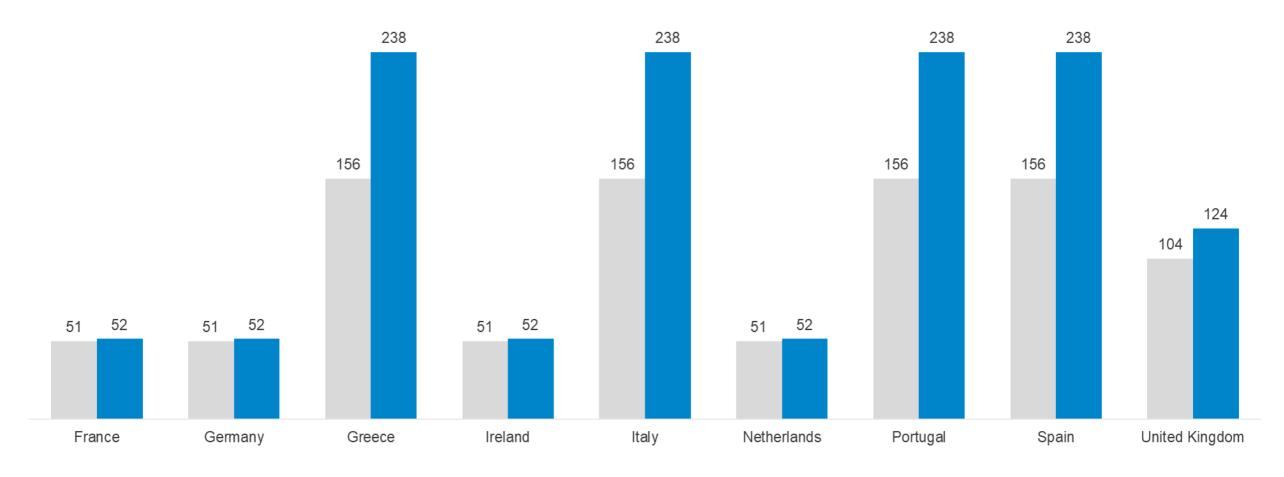


## TRADING MARKET RISK ANALYSIS - SOVEREIGN



INTEREST RATES SOVEREIGN SHOCKS FX TRADING SHOCKS EQUITY SHOCKS CREDIT SPREADS

Proposed sovereign debt shocks are much higher in all southern European countries compared to those in ST'21 (238 vs. 156) and UK (124 vs.104). Almost same shocks for rest of EU countries.

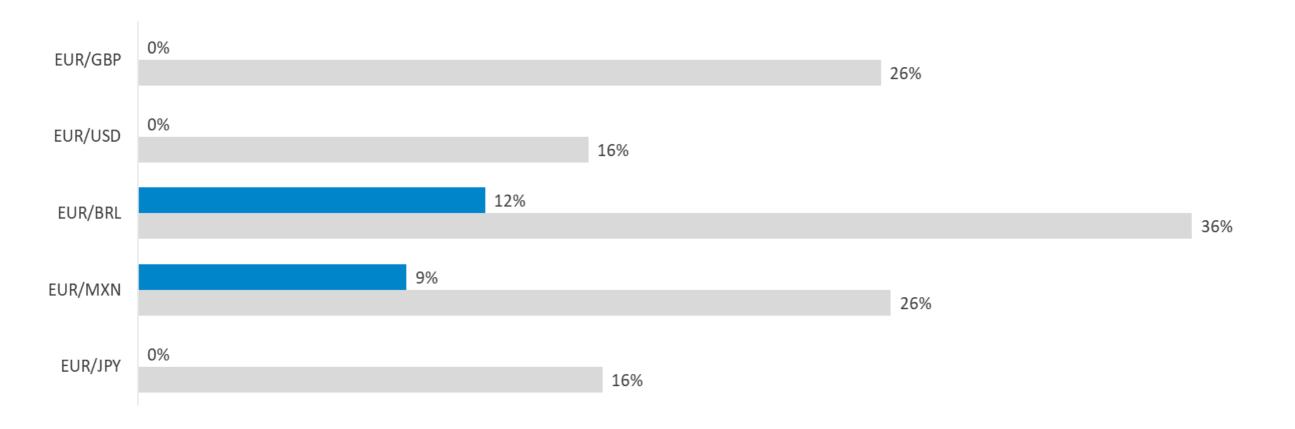


## TRADING MARKET RISK ANALYSIS - FX SHOCKS



INTEREST RATES SOVEREIGN SHOCKS FX TRADING SHOCKS EQUITY SHOCKS CREDIT SPREADS

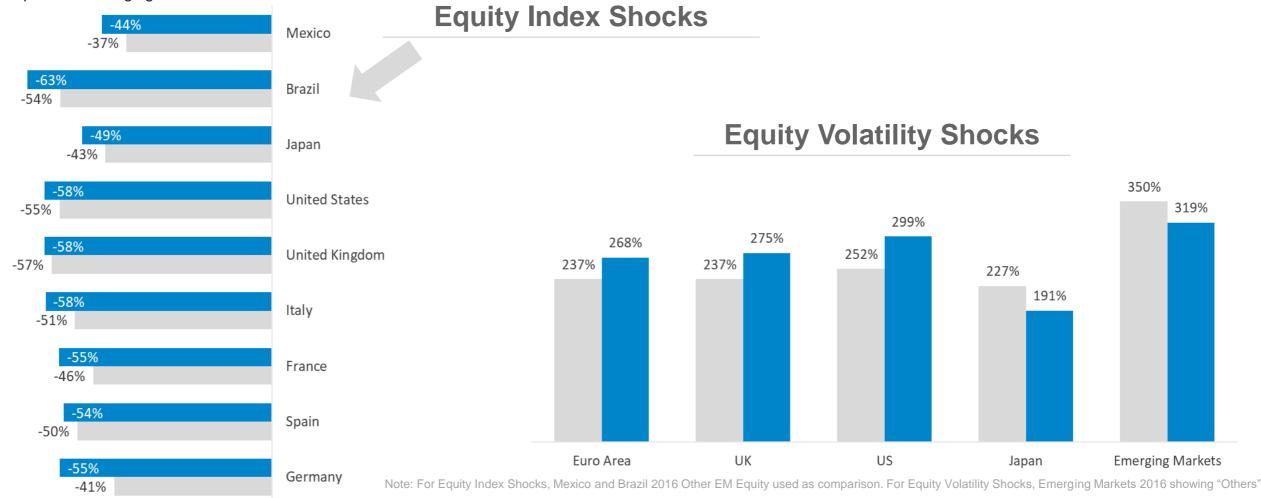
No FX impact either in baseline or adverse for UK, US or Japan. Much lower depreciation compared to ST'21 in emerging counties such as Brazil (12% vs. 36% depreciation) and Mexico (9% vs. 26%).



## TRADING MARKET RISK ANALYSIS - EQUITY SHOCKS

INTEREST RATES SOVEREIGN SHOCKS FX TRADING SHOCKS EQUITY SHOCKS CREDIT SPREADS

2023 Adverse Scenario presents more severe equity index and volatility shocks in comparison to EBA 2021 ST, consistent across all countries except for equity volatility shocks in Japan and Emerging Countries.



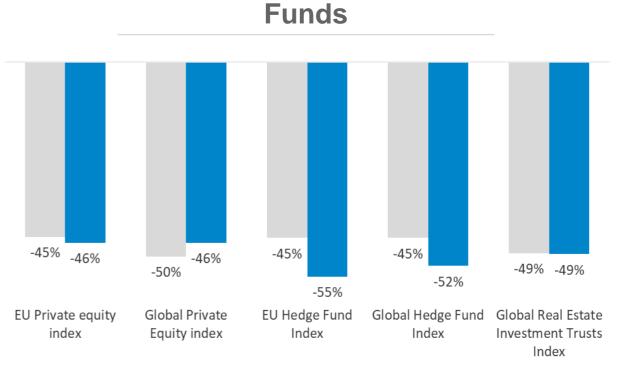
## TRADING MARKET RISK ANALYSIS - CREDIT SPREADS



INTEREST RATES SOVEREIGN SHOCKS FX TRADING SHOCKS EQUITY SHOCKS CREDIT SPREADS

Credit spread and Hedge and Real Estate funds show higher shocks across all analyzed regions in 2023 than in previous exercise, except for Global Private Equity Index and Global RE Investment Trusts Index.

# Asia US 85 107 237



Note: For Funds, Global Hedge Fund Index 2016 showing "Hedge Funds" and Global Real Estate Index 2016 showing Real Estate Funds EU



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