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Global Markets Division

German Invoice Swap Spread Trade

Rising Risk Premia and Rate Cuts Driving Profits

Investment Horizon: 1 Year Upside Potential: +22.79%

Emilia Kalss, Lina Arustamyan, Amon Scharff, Anna Hodun, Luca Mark Barontini Vienna, January 24th, 2025

Team Overview

Global Markets Division





Emilia Kalss

Team Lead

Storyline Macroeconomic Analysis Model Outline



BSc (WU) in Economics - 5th semester

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Econometric Model Implementation





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Trade Strategy & Implementation

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Bond & Swap **Developments**

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Macroeconomic Analysis

S WU Trading and Investment Society



WU Trading and Investment Society

BA (CEU) in Philosophy, Politics and Economics - 3rd semester

MSc (WU) in Quantitative Finance – 3rd semester

BSc (WU) in Economics - 3rd semester

BSc (WU) in Business and Economics – 1st semester



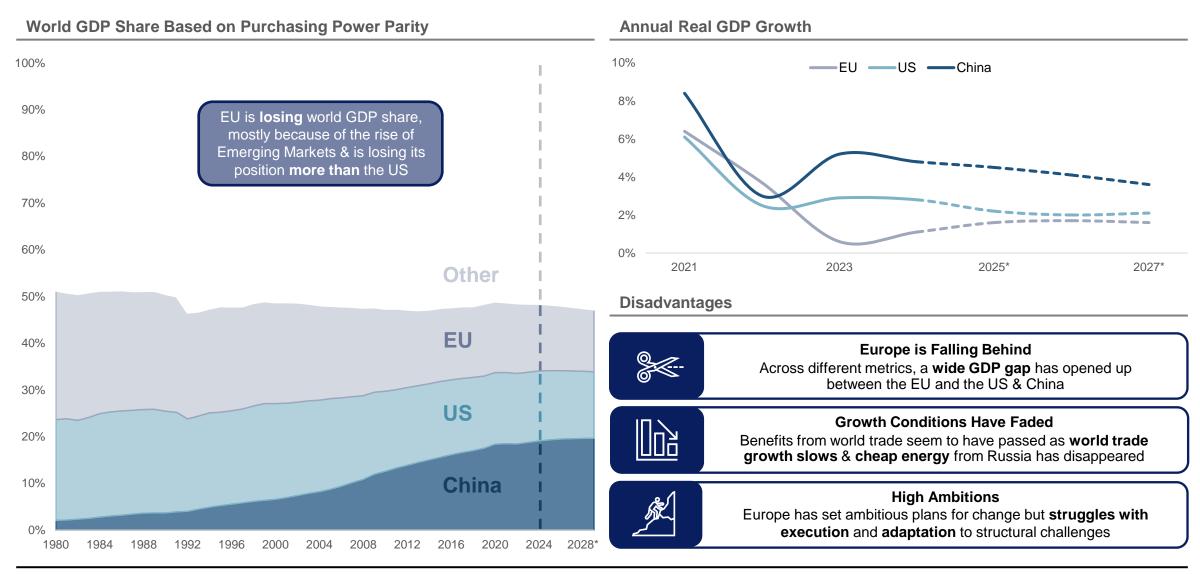
1	Europe in the World Economy	6
2	Germany's Economic Underperformance	8
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6	Trade Implementation	19



Europe in the World Economy

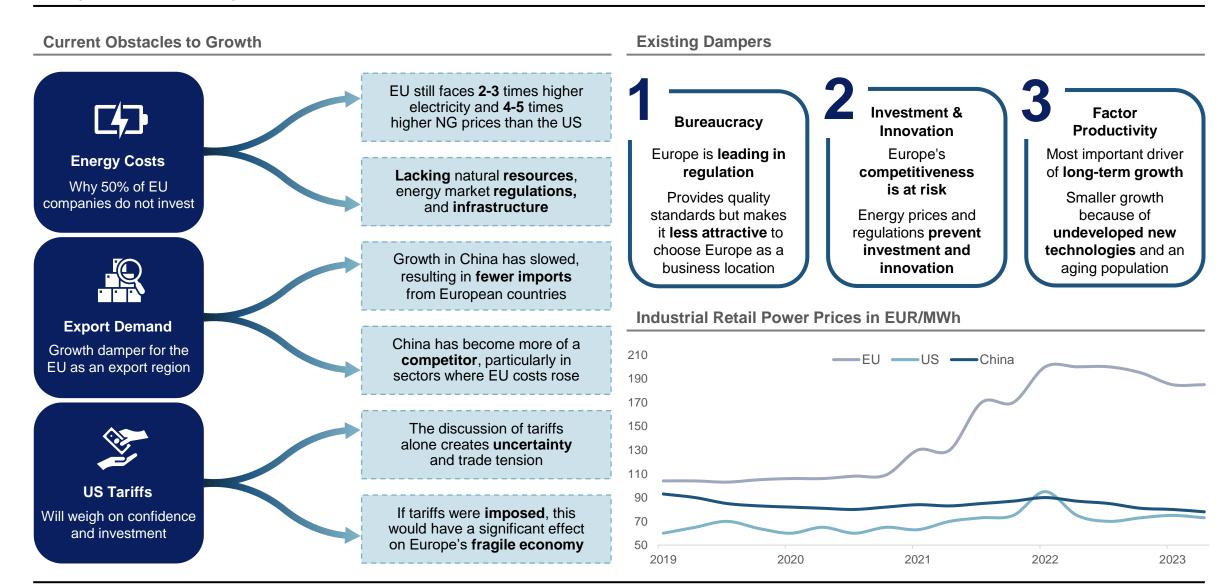
The Position of the EU is Weakening





Challenges for Europe's Economy

Europe is Not a Competitive Location for Business

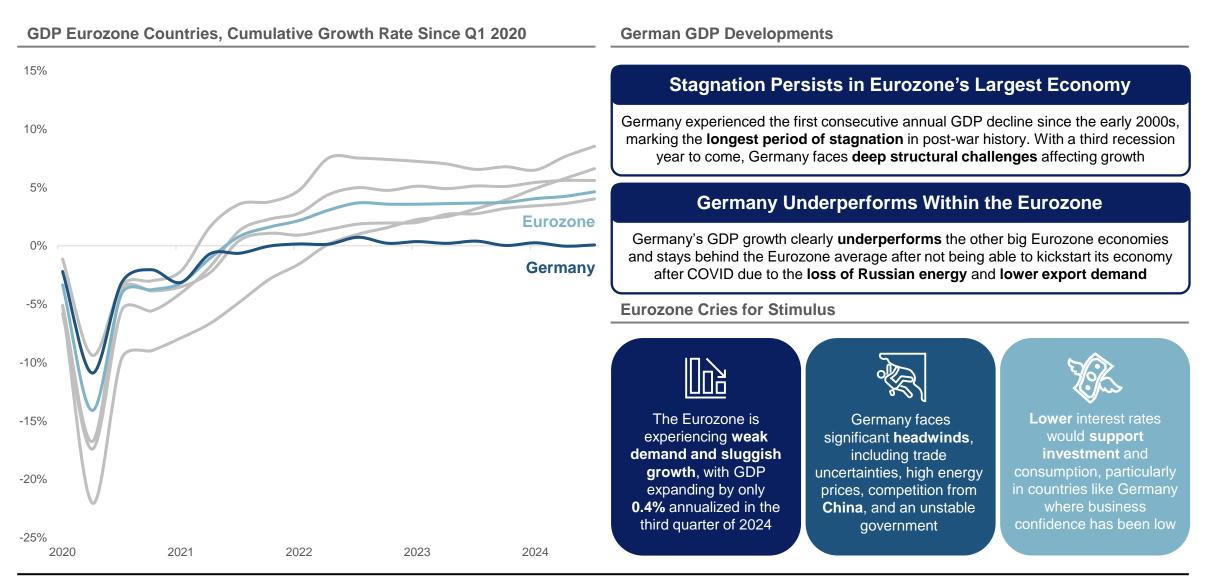


Draghi Report

Economic Growth

Stagnant GDP Calls for Policy Action

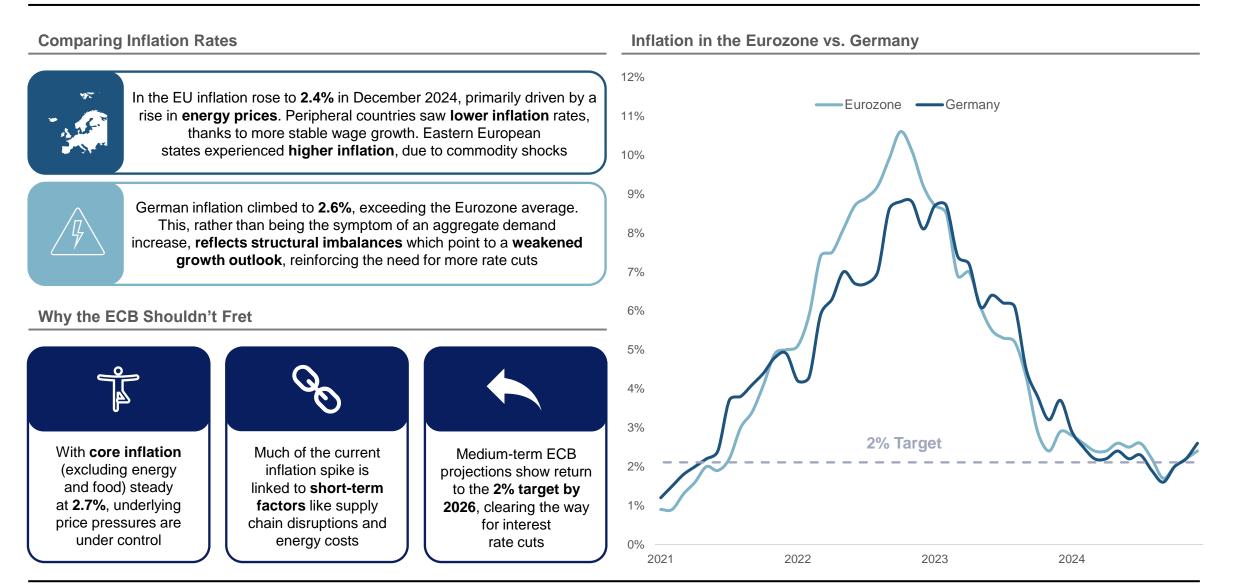




Inflation

Despite Sticky CPI, Inflation Battle Nears Victory

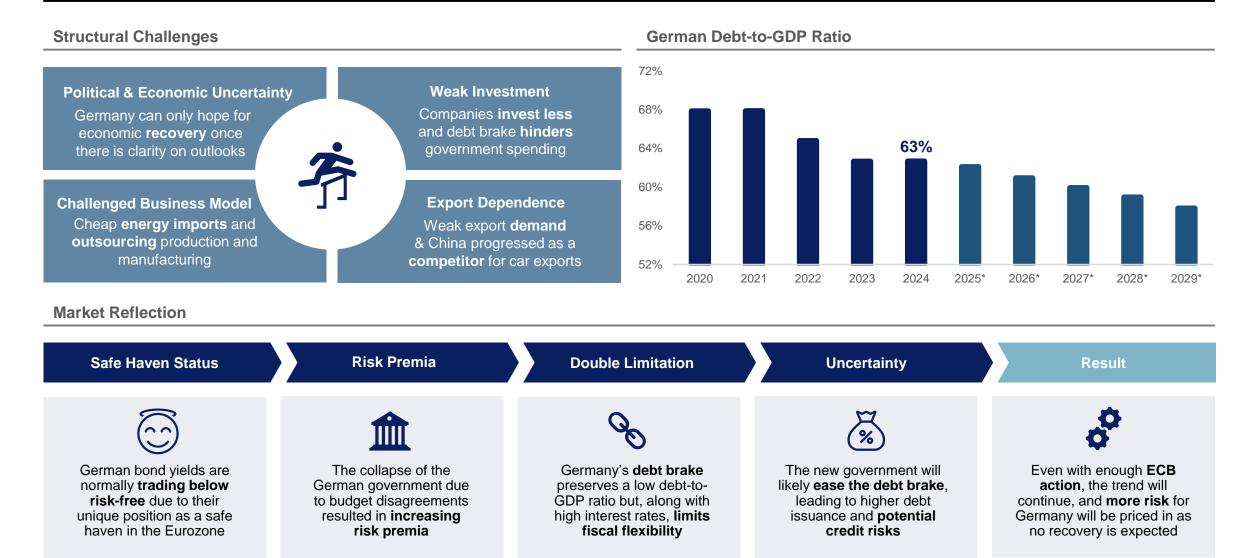




German Risk Premia

Is Germany Still the Safest Option?



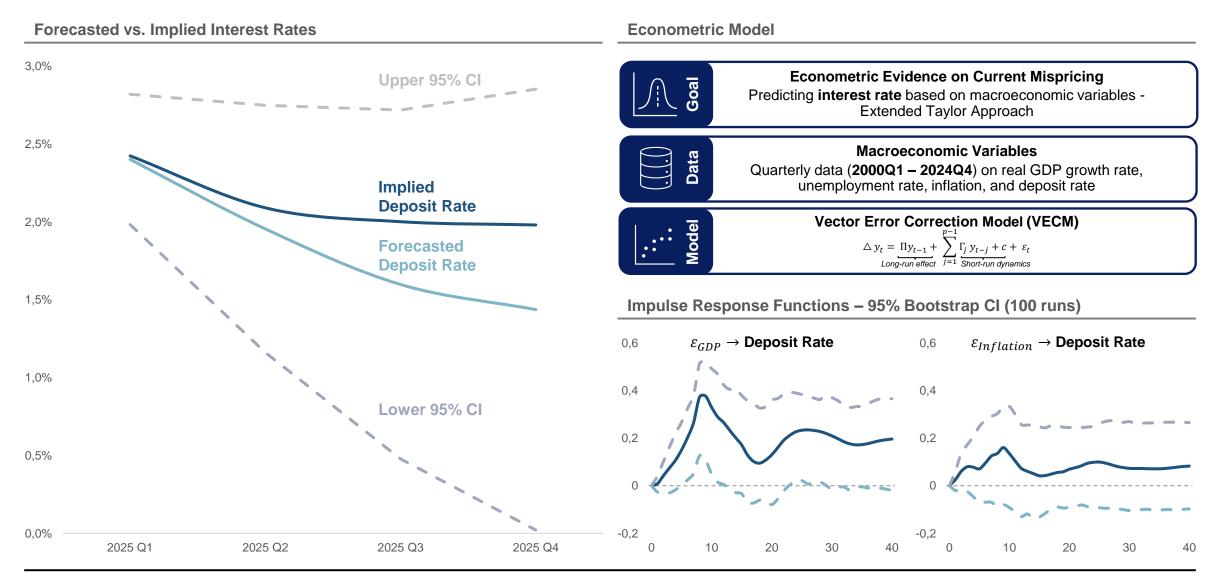




Econometric Model

VECM Provides Evidence on Priced Interest Rates

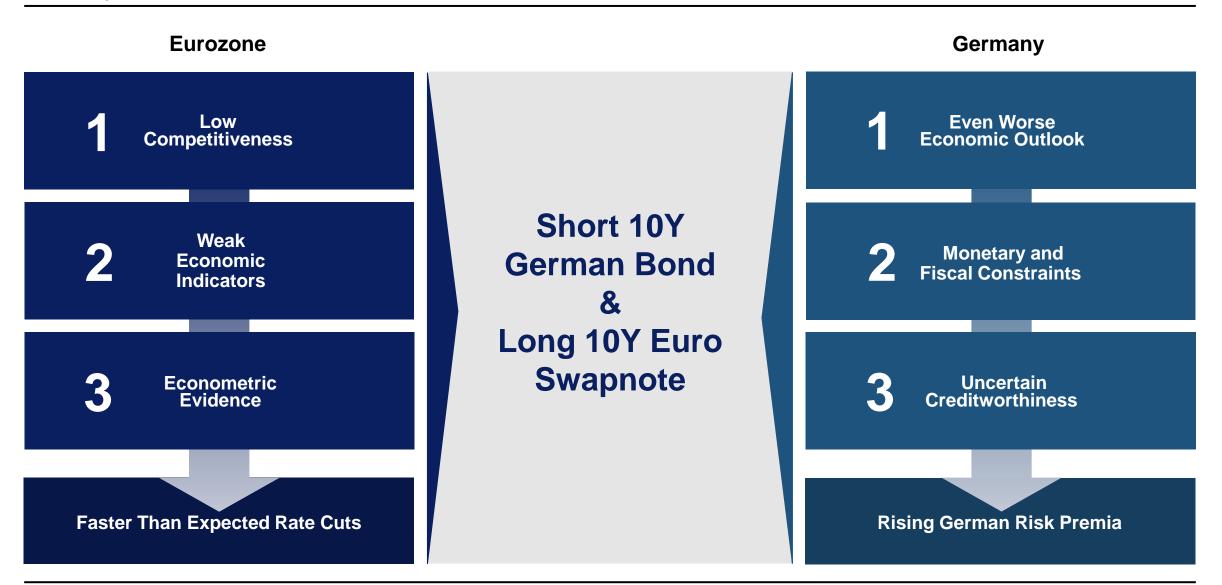




Investment Thesis Reasoning

Summary



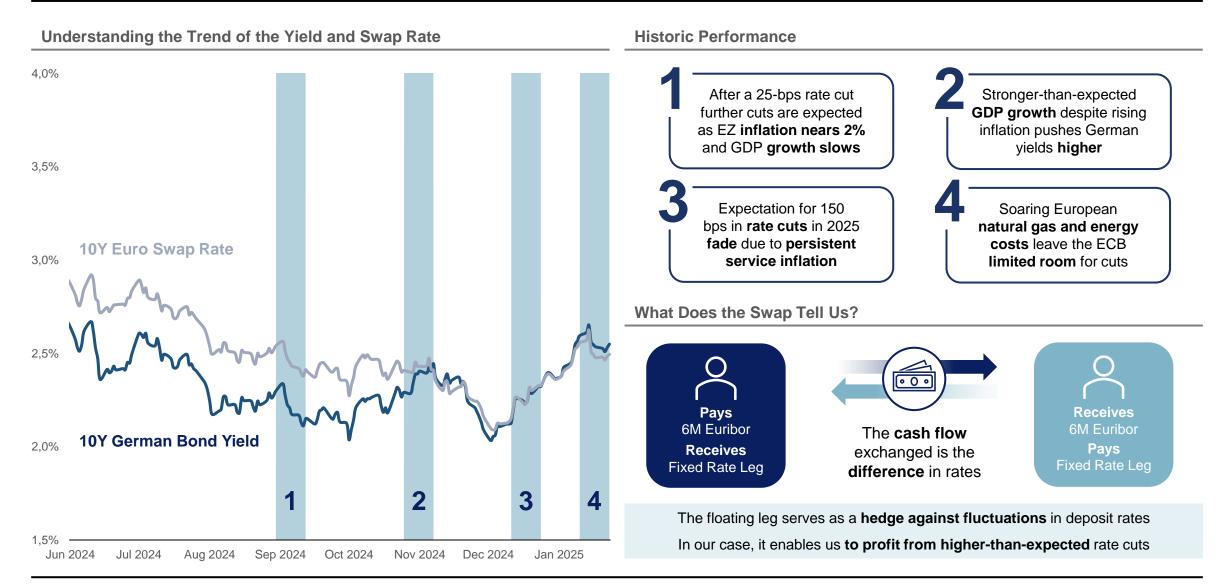




10Y German Bond and 10Y Euro Swap

Analysing the Current Trend Through Past Performance





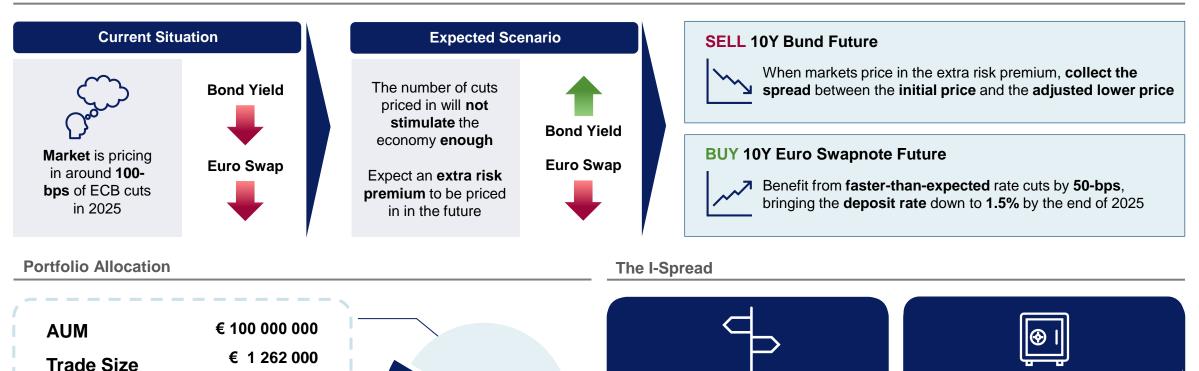
Trade Overview

RRR

1 to 0.93



Instruments and Reasoning



The swap spread trade offers exposure to expected changes in the credit spread between private and public risk premia, based on Germany's credit outlook

ROI

22.79%

MIN

-21,30%

Key indicator for assessing market

expectations of short-term interest

rates, providing insights into

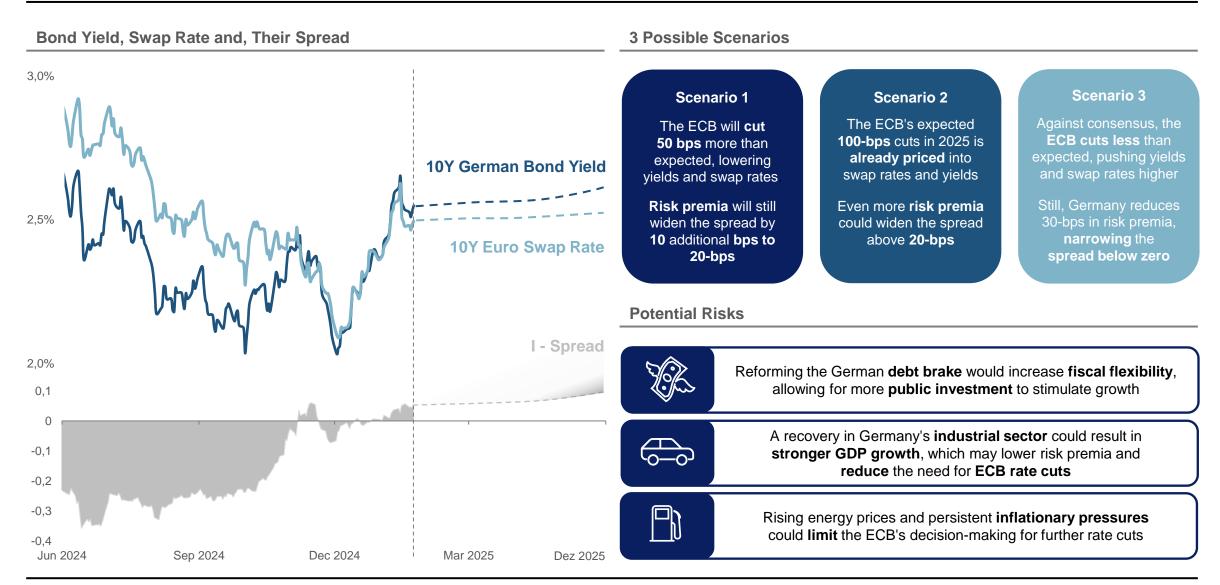
monetary policy and risk premia

changes

Scenario Spread Analysis

The I-Spread Will Widen





Bloomberg Finance L.P

Profit and Loss



Rate Cuts Boost Profits and Risk Premia Widens Swap Spread

		Date	Price	Implied Yield	P/L		
Leg 1 Euro	BUY	23.01.2025	🗞 € 131.08	°∕₀ 2.52%	€ 487 620	Max. Profits	€ 287 620 22.79%
Swapnote Future	SELL	31.12.2025	🗞 € 135.72	% 2.02%	e 407 020	Max. Risk	-€ 268 775
Leg 2 Bund	SELL	23.01.2025	🗞 € 131.50	% 2.55%		Risk	- 21.3%
Future	BUY	31.12.2025	🗞 € 133.50	% 2.22%	-€ 200 000	RRR	1 to 0.93

Future Details

Future	Contract Series	Contract Size	Ticks Size	Point Value	BPV	Spread Ratio	BPV	Spread Ratio	<u>A</u>
Euro 10Y Bund Future	Mar – Dec	€ 100 000	€ 10	€ 1000	106.4	100	106.4	100 Bund contracts	The spread ratio of 1
	Rollover								to 1.05 enables maintaining a neutral
Euro 10Y Swapnote Future	Mar – Dec	€ 100 000	€ 10	€ 1000	101.2	105	101.2	105 Swapnote contracts	position on parallel rate shifts

Profit and Loss

Stop-Loss Explanation



Short on the 10Y Bund Future

Long on the 10Y Euro Swapnote





Appendix



Source Name	Link	Date of Retrieval	Used for
IMF	Link	07.01.2025	World GDP Share
IMF	Link	07.01.2025	GDP Growth
Draghi Report	Link	19.01.2025	Eurozone Macro Analysis
Bloomberg Finance L.P.	Software	19.01.2025	Future Pricing and Trade Details
OECD	Link	19.01.2025	GDP Comparison
Trading Economics	Link	19.01.2025	Inflation in Eurozone
Trading Economics	Link	19.01.2025	Inflation in Germany
SAXO	Link	18.01.2025	Germany Inflation
РІМСО	Link	18.01.2025	Understanding IRS
Trading Economics	Link	18.01.2025	Germany 10Y Chart
Reuter	Link	18.01.2025	Explanation of recent rise of German 10Y up movement



Source Name	Link	Date of Retrieval	Used for
APNEWS	<u>Link</u>	18.01.2025	Explanation of German 10Y bond price down-movement
Euro News	Link	18.01.2025	Explanation of German 10Y bond price down-movement
ECB Data Portal	<u>Link</u>	18.01.2025	Inflation data for econometric model
Reuters	Link	19.01.2025	Eurozone Outlook
Reuters	Link	19.01.2025	Germany Outlook
ECB Data Portal	Link	18.01.2025	GDP data for econometric model
ECB Data Portal	<u>Link</u>	18.01.2025	Unemployment data for econometric model
Euro News	Link	21.01.2025	Energy price risks and uncertainties
DW	Link	21.01.2025	German Elections
Reuters	Link	21.01.2025	Risk Analysis
Reuters	Link	21.01.2025	Risk Analysis



Source Name	Link	Date of Retrieval	Used for
ICE	Link	21.01.2025	ICE Swap Rate
ICE	Link	20.01.2025	Trade Ratio
CME Group	Link	03.01.2025	Trade Strategy
CME Croup	Link	02.01.2025	Trade Implementation
Statista	Link	22.01.2025	Debt to GDP Ratio

Appendix

Calculations

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Scenario 1										
1 Leg: Bund		Date		Price	Yield	PnL				
Sell		23.01.2025	€	131,50	2,559	% -€ 200 000,0	0			
Buy		31.12.2025	€	133,50	2,229	%				
			-€	2,00	-0,3	3 50 bps minus risk premia				
Contracts		1(9- 00	2 000,00 F	PnL per Contract	=(K93/0,01)*J97				
Margin	€	2 12	20	-94% F	PnL on Equity	=K94/J95				
Contact Size	€	100 00	00	-2% F	PnL on Investment	=K94/J96				
Tick Size	€	1	10							
Value of 1pt	€	1 00	00							

Scenario 2										
1 Leg: Bund		Date		Price	Yield	PnL				
Sell		23.01.2025	€	131,50	2,55%	6 € 311 700,00				
Buy		31.12.2025	€	128,38	2,72%	0				
			€	3,12	0,1) 10-bps added risk premia				
Contracts		100	€	3 117,00 F	nL per Contract	=(Q93/0,01)*P97				
Margin	€	2 120		147% F	nL on Equity	=Q94/P95				
Contact Size	€	100 000		3% F	nL on Investment	=Q94/100000				
Tick Size	€	10								
Value of 1pt	€	1 000								

2 Leg: Swapnote		Date		Price	Swaprate	PnL
Buy		23.01.2025	€	131,08	2,52%	€ 487 620,00
Sell		31.12.2025	€	135,72	2,02%)
			€	4,64	-0,50) 50 bps more in rate cuts
Contracts		105	€	4 644,00	PnL per Contract	=(K103/0,01)*J107
Margin	€	10 000		46%	PnL on Equity	=K104/J105
Contact Size	€	100 000		5%	PnL on Investment	=K104/100000
Tick Size	€	10				
Value of 1pt	€	1 000				

2 Leg: Swapnote		Date		Price	Swaprate	PnL
Buy		23.01.2025	€	131,08	2,49%	68 775,00
Sell		31.12.2025	€	130,43	2,52%	0
			-€	0,66	0,0	2 No additional cuts
Contracts		10)5 -€	655,00 Pnl	per Contract	=(Q103/0,01)*P107
Margin	€	10 00	00	-7% Pnl	on Equity	=Q104/P105
Contact Size	€	100 00	00	-1% Pnl	on Investment	=Q104/P106
Tick Size	€		10			
Value of 1pt	€	1 00	00			

			Scenario PnL						Scenario PnL		
Contracts		205	=J94+J104			Contracts		205	=P94+P104		
Total Margin	€	1 262 000	=J95*J94+J105*J104			Total Margin	€	1 262 000	=P95*P94+P105*P104		
Total Trade Size	€	20 500 000	=J94*J96+J104*J106			Total Trade Size	€	20 500 000	=P94*P96+P104*P106		
ROI (Total Trade Size)	1,40%	=M115/J113			ROI (Total Trade Size	e)	1,18%	=S115/P113		
ROE (Total Margin)		22,79%	=M115/J112	€	287 620,00	ROE (Total Margin)		19,25%	=S115/P112	€	242 925,00

Appendix

Calculations

		Scenario	3 - Si	top Loss E	xplainatio	n	
1 Leg: Bund		Date		Price	Yield		PnL
Sell		23.01.2025	€	131,50		2,55% <mark>-€</mark>	200 000,00
Buy		31.12.2025	€	133,50		2,22%	
			-€	2,00		-0,33 32-bps	ess risk premia
Contracts		10)0 -€	2 000,00	PnL per Contract	=(K12	7/0,01)*J131
Margin	€	2 12	20	-94%	PnL on Equity	=K128	/J129
Contact Size	€	100 00	00	-2%	PnL on Investment	=K128	/J130
Tick Size	€	1	0				
Value of 1pt	€	1 00	00				

2 Leg: Swapnote		Date		Price	Swaprate	PnL
Buy		23.01.2025	€	131,08	2,49%	-€ 68 775,00
Sell		31.12.2025	€	130,43	2,52%	
			-€	0,66	0,02	No additional cuts
Contracts		1	05 -€	655,00 Pr	nL per Contract	=(K137/0,01)*J141
Margin	€	10 0	00	-7% Pr	nL on Equity	=K138/J139
Contact Size	€	100 0	00	-1% Pr	nL on Investment	=K138/J140
Tick Size	€		10			
Value of 1pt	€	1 0	00			

			Scenario PnL
Contracts		205	=J128+J138
Total Margin	€	1 262 000	=J129*J128+J139*J138
Total Trade Size	€	20 500 000	=J130*J128+J140*J138
Risk Return Ratio		93%	=(M149/M115)*-1
ROE (Total Margin)		-21,30%	=M149/J146 -€ 268 775,00

BPV_{DE10Y} (PV01) =BPV_{CTD} / CF_{CTD} BPV_{DE10Y} (PV01) = 0.07907 / 0.742877 = 0,01064

BPV_{Swapnote} (PV01) = Modified Duration x Dirty Price x 0.0001
Modified Duration _{Swapnote} = 7.72 (Excel Calculation)
BPV_{Swapnote} (PV01) = 7.72*131.08*0.0001 = 0.1011673

Spread Ratio = $BPV_{DE010Y} / BPV_{Swapnote}$

Spread Ratio = 0.01064 / 0.1011673 = 1.05

Modified Duration Calculation					
7,72	=(MDURATION(P142;P143;P144;P146;1;4))				
20.01.2025					
17.03.2035					
6%					
1	(1 for annual)				
2,50%					
4					
0,101167269	=P141*131,08*0,0001				
	7,72 20.01.2025 17.03.2035 6% 1 2,50% 4				

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