

■ Portfolio Analysis Report

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Set PORTFOLIO_LEGACY_CHARTS=true for equity/drawdown/distribution charts

Focus on console text insights for decision making

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[SEARCH] PORTFOLIO TYPE ANALYSIS (Rule-Based Classification)

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[DATE] REGIME DI MERCATO RILEVATO:

[RED] Regime: Include Crisi Sistemica
Periodo: 11.7 anni

[DOWN] CRISI SISTEMICHE RILEVATE (con evidenza quantitativa):

- China Deval / Oil Crash (2015-08-17 → 2016-02-11)
Trigger: Post-hoc: Yuan -3% in 2 giorni, WTI \$26, S&P -14%
- Q4 2018 Selloff (2018-10-03 → 2018-12-24)
Trigger: Post-hoc: Fed hawkish, S&P -20% in Q4
- COVID Crash (2020-02-19 → 2020-03-23)
Trigger: Post-hoc: S&P -34% in 33 giorni, VIX 82.69
- Rate Tightening 2022 (2022-01-03 → 2022-10-12)
Trigger: Post-hoc: Fed +425bps, S&P -25%, bonds -13%

[CONF] SOGLIE APPLICATE (Normale vs Regime Attuale):

Metrica	Normale	Regime
Min Sharpe	0.55	0.20
Max Drawdown	-30%	-55%

[INFO] Le metriche osservate sono influenzate dalla presenza di regimi di stress sistematico (China Deval / Oil Crash, Q4 2018 Selloff, cov

[CHART] FASE 3: DECOMPOSIZIONE TEMPORALE

[RED] PERFORMANCE DURANTE CRISI:

China Deval / Oil Crash (2015-08-17 → 2016-02-11):
Return: -16.8% Vol: 32.0% MaxDD: -19.5%
Q4 2018 Selloff (2018-10-03 → 2018-12-24):
Return: -5.8% Vol: 21.0% MaxDD: -6.6%
COVID Crash (2020-02-19 → 2020-03-23):
Return: -32.8% Vol: 56.7% MaxDD: -32.8%
Rate Tightening 2022 (2022-01-03 → 2022-10-12):
Return: -29.4% Vol: 20.0% MaxDD: -29.6%

[GREEN] PERFORMANCE IN EXPANSION:

Periodo expansion: 10.1 anni
CAGR expansion: 5.8%
Volatility: 17.6%

[CYCLE] RECOVERY ANALYSIS (Time-to-Recover):
Post-China Deval / Oil Crash: 19 mesi per recuperare
(Recovery CAGR: 30.1%)
Post-Q4 2018 Selloff: 23 mesi per recuperare
(Recovery CAGR: 15.6%)
Post-COVID Crash: 8 mesi per recuperare
(Recovery CAGR: 114.0%)
Post-Rate Tightening 2022: 32 mesi per recuperare
(Recovery CAGR: 16.2%)

[UP] ROLLING METRICS (only if unstable):
Sharpe 3Y: min=-0.42 (instability detected)
Sharpe 5Y: min=-0.18 (instability detected)

[DOWN] WORST PERIODS:
Worst 12M: -30.8% (ended 2022-10-13)
Worst 24M: -34.3% (ended 2020-03-23)

[TARGET] ROBUSTNESS SCORE (comparative ranking tool):

[#####.....] 60/100 (60%)

[WARN] NOTA: Score per confronto RELATIVO tra portafogli, non giudizio assoluto.

Breakdown (criteri storici retrospettivi):
• Recovery moderato: media 20 mesi (+15)
• Rolling Sharpe 3Y modesto (min -0.42) (+15)
• Worst 12M moderato (-31%) (+15)
• CAGR moderato (5.0%) (+15)

[MEASURE] RESILIENCE vs EFFICIENCY (Two-Axis Evaluation):

EFFICIENZA: [##.....] 10/100 (LOW)
RESILIENZA: [#####.....] 50/100 (HIGH)

Quadrante: [CHART] EQUITY_RESILIENT
All-equity con buona resilienza storica - attenzione: resta esposto a equity risk

Trade-off:

Trade-off intrinseco: aumentare efficienza (più rischio) riduce tipicamente resilienza, e viceversa. La posizione ottimale dipende dagli obiettivi.

[TAG] TIPO IDENTIFICATO: [CHART] EQUITY CORE-DRIVEN

World index dominante + satellite

Confidence: 98%

Motivazione: Core globale dominante: 70% in world index (VWCE.DE è All-World diversificato)

[CHART] COMPOSIZIONE PORTAFOGLIO:

Core Globale: 70.0% (VT, VWCE, IWDA)
Core Regionale: 0.0% (IVV, EWJ, VGK...)
--- Emerging Markets ---
EM Broad: 20.0% (EEM, VWO...)
Altro Equity: 10.0% (non classificato)
Bond: 0.0%

TOTALE EQUITY: 100.0%

■ SOGLIE PER TIPO 'EQUITY_CORE_DRIVEN':

Max singola posizione: 85%
Max top 3: 95%
Max satellite singolo: 10%
Max satellite totale: 25%
Max drawdown accettato: -55%
Min Sharpe atteso: 0.20
→ Equity Core-Driven - World Index dominante

[PIN] METRICHE PRIMARIE: sharpe, cagr
(Queste metriche sono critiche per tipo EQUITY_CORE_DRIVEN)
Secondarie: sortino, max_drawdown

[OK] TRADE-OFF CONSAPEVOLI (coerenti con il tipo):

• Top 3 = 100.0%. Accettabile per tipo EQUITY_CORE_DRIVEN con core.

[ALERT] CRITICITÀ SEVERE:

• INFERIOR vs benchmark same-category: Global Equity (VT), S&P 500 (SPY). Il portafoglio non giustifica la complessità rispetto ad alternativa.

[CHART] CONTESTO REGIME DI MERCATO:

• Sortino Ratio 0.35 compresso per presenza crisi sistemica. Soglia regime-adjusted: 0.40.

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[INFO] VERDETTO: [FAIL] DA RISTRUTTURARE

Criticità severa non coerenti con tipo EQUITY_CORE_DRIVEN.

Suggerimento: rivedi la composizione o considera un tipo diverso.

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RISK INTENT ANALYSIS v3.1 (Framework Istituzionale)

[INFO] RISK INTENT DICHiarato: GROWTH
 Portafoglio orientato alla crescita, accetta volatilità di mercato
 Beta target: 0.8 - 1.0
 Beta min accettabile: 0.6
 Beta FAIL threshold: 0.4
 Benchmark: VT
 Max DD atteso: -35%

[TARGET] BETA GATING:
 Portfolio Beta: 0.64
 [OK] Beta 0.64 accettabile per risk intent GROWTH.

[CHART] CONFIDENCE: 97/100 (HIGH)

[DOWN] DRAWDOWN ATTRIBUTION:
 Tipo: STRUCTURAL_FRAGILITY
 Osservato: -37.6%
 Atteso (β -adj): -21.8%
 Excess DD: 15.7% [RED]
 → DD 15.7% oltre atteso - concentrazione o correlazioni problematiche

✓ VERDETTI (4 regole valutate):
 [OK] [V2] [OK] CCR BILANCIATO: Nessun asset con risk leverage > 1.5x
 [OK] [V3] [OK] DIVERSIFICATO: Correlazione media 0.03 < 0.70 (matric
 [OK] [V4] [OK] DD ECCELLENTE: Drawdown migliore dell'atteso per beta
 [OK] [V5] [OK] Beta 0.64 accettabile per risk intent GROWTH.

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 VERDETTO FINALE (Framework Istituzionale)
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1. Risk Intent Dichiarato: GROWTH
 2. Coerenza Intent vs Dati: OK
 3. Coerenza Strutturale: OK

Scores:
 Data Integrity: 97/100
 Structural Coherence: 100/100
 Efficiency: 50/100
 Tail Risk: 30/100

 AGGREGATE: 73/100

4. VERDETTO: [OK] ACCEPTABLE - Trade-off ragionevoli documentati
 → Alcune aree ottimizzabili ma struttura solida

Riepilogo: 4 OK, 0 Warning, 0 Structural, 0 Intent Mismatch

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 INVESTMENT COMMITTEE VALIDATOR (Gate System v4.3)
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[INFO] GATE STATUS:

[OK] Data Integrity Gate: PASS
[OK] Intent Gate: PASS
[OK] Structural Gate: PASS (no causal fragility detected)
[i] Structure Type: GLOBAL_CORE (90% confidence)
[i] Benchmark Gate: OPPORTUNITY_COST
[i] Final Verdict: STRUCTURALLY_COHERENT_INTENT_MATCH
[i] Prescriptive Actions: 0
[i] CCR Warnings (Diagnostic): 0

[CHART] DATA INTEGRITY GATE:
[OK] DATA_INTEGRITY: PASS (NaN ratio 0% ≤ 20%)

[TARGET] RISK INTENT GATE (3-state beta gating):
[OK] INTENT_MATCH: Beta 0.64 ≥ 0.6 per GROWTH
Beta state: [GREEN] PASS (beta ≥ 0.6)
Beta window: 11.7y → Intent verdict: VALID

[PACKAGE] PORTFOLIO CLASSIFICATION (5-bucket):
Core Global (world): 70.0%
Core Regional (US/EU/EM...): 20.0%
Satellite (classified): 0.0%
Unclassified Equity: 10.0%
Defensive (bond/gold): 0.0%

TOTAL: 100.0%

[TAG] PORTFOLIO LABEL: Global Core + Equity Portfolio (Controlled-Beta)

■■ STRUCTURE TYPE: GLOBAL_CORE (90% confidence)
Global core 70% ≥ 50% dominates structure
[OK] Same-category benchmark: ALLOWED (295% equity, no tilts)

[UP] BENCHMARK GATE:
[i] BENCHMARK_GATE: Nessun benchmark same-category (solo reference)
Opportunity-cost only: GLOBAL_EQUIITY, SP500, 60_40

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FINAL VERDICT
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[OK] STRUCTURALLY COHERENT - Struttura e Intent allineati

[PIN] Why this verdict is not contradictory:
Tutti i gate passati: data integrity OK, intent match OK, nessun problema strutturale critico rilevato. Note: CCR warnings (se presenti) ...

[INFO] AZIONI CONSENTITE:
[OK] Tutte le azioni di portafoglio consentite

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PORTFOLIO ANALYSIS REPORT
(Professional Diagnostic v3.1)
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[WARN] METODOLOGIA E ASSUNZIONI
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- Metriche STORICHE: descrivono il passato, non predicono futuro
- Returns finanziari: fat tails, volatility clustering
- VaR/CVaR: storico (non parametrico), scaling annuale indicativo
- Range plausibile*: variabilità campionaria (bootstrap)
- Correlazioni: osservate, possono convergere in crisi
- Monte Carlo: scenari ipotetici, non previsioni



[UP] PERFORMANCE
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Total ROI: 77.54%
CAGR (geometric): 5.05%
Range plausibile*: [-4.49%, 16.76%]
Volatility (ann.): 19.43%

[CHART] RISK-ADJUSTED METRICS
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Sharpe Ratio: 0.25
Range plausibile*: [-0.27, 0.68]
Precision: ±0.25 (11.7 yrs)
Sortino Ratio: 0.35
Calmar Ratio: 0.13
Profit Factor: 1.06
Gain/Loss Ratio: 0.97

[DOWN] DRAWDOWN ANALYSIS
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Max Drawdown: -37.58%
Worst plausibile*: [-64.1%, -23.7%]
Peak Date: 2018-01-29
Trough Date: 2020-03-23
Avg Drawdown: -12.23%
Current Drawdown: -1.59%

[WARN] TAIL RISK (VaR storico, 95% confidence)
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VaR (daily): 1.91%
CVaR (daily): 2.86%
VaR (annual, indicative): 30.39%
CVaR (annual, indicative): 45.44%
[i] Scaling annuale: sqrt(T), può sottostimare rischio ~20-40%

[DATE] MONTHLY STATISTICS
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Months Up: 77 / 141 (54.6%)
Months Down: 64 / 141
Best Month: 10.83%
Worst Month: -12.73%
Avg Month: 0.50%

■ YEARLY STATISTICS
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Years Up: 9 / 13
Years Down: 4 / 13
Best Year: 30.81%
Worst Year: -20.61%

[PIN] DAILY STATISTICS
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Days Up: 1551 / 2960 (52.4%)
Days Down: 1409 / 2960
Best Day: 8.54%
Worst Day: -11.30%

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RISK CONTRIBUTION (Component Contribution to Risk)
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Ticker Weight MCR CCR CCR%
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VWCE.DE 70.00% 0.1941 0.1359 74.32%
IS3N.DE 20.00% 0.1539 0.0308 16.84%
IS3Q.DE 10.00% 0.1616 0.0162 8.84%

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TOTAL 100.00% 0.1828 100.00%

[CHART] CCR% NORMALE vs CRISI (come cambia in stress)

Ticker	Normale	Crisi	Delta	Note
VWCE.DE	74.5%	78.6%	+4.1%	≈ stabile
IS3N.DE	16.8%	13.1%	-3.7%	≈ stabile
IS3Q.DE	8.7%	8.3%	-0.4%	≈ stabile

Giorni normali: 1618

Giorni crisi: 41

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INDIVIDUAL ASSET METRICS (annualized)

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	Weight	CAGR	Vol	RiskContrib%
VWCE.DE	0.7000	0.1278	0.1760	0.7432
IS3N.DE	0.2000	0.0902	0.1972	0.1684
IS3Q.DE	0.1000	0.1264	0.1774	0.0884

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CORRELATION MATRIX (Observed, RAW)

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[WARN] SHRINKAGE MOLTO ALTO (96%)

La matrice REGULARIZED è quasi-identità (costruzione numerica).

Usare SOLO la matrice RAW per interpretare relazioni tra asset.

La REG serve esclusivamente per stabilizzare calcoli di rischio.

[i] Shrinkage intensity 96% → correlazioni regolarizzate
non informative per diagnosi. Matrice RAW mostrata sotto.
(REG usata internamente solo per calcoli numerici)

[CHART] CORRELAZIONI OSSERVATE (RAW, usate per diagnosi):

Ticker	IS3N.DE	IS3Q.DE	VWCE.DE
IS3N.DE	1.00	0.77	0.84
IS3Q.DE	0.77	1.00	0.98
VWCE.DE	0.84	0.98	1.00

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[RANDOM] MONTE CARLO STRESS TEST

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[CHART] SCENARIO NORMALE (distribuzione storica):

Median return 1Y:	12.1%
Worst case 5%:	-27.2%

[WARN] SCENARIO STRESS (crisi strutturale):

Median return 1Y:	-30.9%
Worst case 5%:	-56.3%

■ TAKEAWAY:

Stress peggior caso: -56% vs normale -27% (delta 29%)

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[CHART] BENCHMARK COMPARISON (vs alternative passive)

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[CONF] METODOLOGIA: BENCHMARK_COMPARISON

Confronto vs alternative passive. Distingue same-category vs opportunity-cost.

[INFO] Rule 8 Parameters:
Defensive allocation: 0.0%
Has sector tilts: False

vs Global Equity (VT) [[TARGET] SAME-CATEGORY]:

Benchmark CAGR:	9.81%
Benchmark Vol:	16.89%
Benchmark Sharpe:	0.52
Benchmark MaxDD:	-34.2%

Excess Return:	-4.76%
Tracking Error:	17.40%
Information Ratio:	-0.27
Beta:	0.64
Alpha (Jensen):	-1.97%

Verdict: INFERIOR
Portfolio sottoperforma Global Equity (VT) - giustificare la scelta.

vs S&P 500 (SPY) [[TARGET] SAME-CATEGORY]:

Benchmark CAGR:	13.20%
Benchmark Vol:	17.48%

Benchmark Sharpe: 0.68
Benchmark MaxDD: -33.7%

Excess Return: -8.16%
Tracking Error: 18.77%
Information Ratio: -0.43
Beta: 0.55
Alpha (Jensen): -3.14%

Verdict: INFERIOR
Portfolio sottoperforma S&P 500 (SPY) - giustificare la scelta.

vs 60/40 Portfolio [[CHART] OPPORTUNITY-COST]:

Benchmark CAGR: 9.19%
Benchmark Vol: 10.90%
Benchmark Sharpe: 0.68
Benchmark MaxDD: -21.8%

Excess Return: -4.14%
Tracking Error: 17.27%
Information Ratio: -0.24
Beta: 0.86
Alpha (Jensen): -3.14%

Verdict: ALTERNATIVE_STRATEGY
60/40 Portfolio ha dato rendimento maggiore - ma è strategia diversa, non errore.

[INFO] VERDETTO COMPLESSIVO (solo same-category): REVIEW_NEEDED
Portfolio sottoperforma benchmark di categoria - rivedere.

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SECTOR ALLOCATION & TOP HOLDINGS
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[PIN] SETTORI (allocazione portafoglio)

technology 27.6%
financial_services 18.0%
consumer_cyclical 10.6%
industrials 9.8%
communication_services 8.9%
healthcare 8.1%
consumer_defensive 4.8%
Other 4.4%
basic_materials 4.3%
energy 3.5%

[PIN] TOP HOLDINGS (Top 10 per ETF)

VWCE.DE
4.62% NVDA - NVIDIA Corp
4.20% AAPL - Apple Inc
3.80% MSFT - Microsoft Corp
2.34% AMZN - Amazon.com Inc
1.94% GOOGL - Alphabet Inc Class A
1.69% AVGO - Broadcom Inc
1.56% GOOG - Alphabet Inc Class C
1.53% META - Meta Platforms Inc Class A
1.34% TSLA - Tesla Inc
1.27% 2330.TW - Taiwan Semiconductor Manufacturing Co Ltd

IS3N.DE
10.29% 2330.TW - Taiwan Semiconductor Manufacturing Co Ltd
4.17% 0700.HK - Tencent Holdings Ltd
3.32% 005930.KS - Samsung Electronics Co Ltd
2.67% 9988.HK - Alibaba Group Holding Ltd Ordinary Shares

2.08% 000660.KS - SK Hynix Inc
1.06% HDFCBANK.NS - HDFC Bank Ltd
0.89% RELIANCE.NS - Reliance Industries Ltd
0.80% 00939 - China Construction Bank Corp Class H
0.78% 2317.TW - Hon Hai Precision Industry Co Ltd
0.73% 1810.HK - Xiaomi Corp Class B

IS3Q.DE
5.24% AAPL - Apple Inc
5.07% NVDA - NVIDIA Corp
4.99% MSFT - Microsoft Corp
3.76% V - Visa Inc Class A
3.56% META - Meta Platforms Inc Class A
2.45% LLY - Eli Lilly and Co
2.32% ASML.AS - ASML Holding NV
2.15% MA - Mastercard Inc Class A
1.95% GOOGL - Alphabet Inc Class A
1.93% TJX - TJX Companies Inc

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TOP HOLDINGS AGGREGATE (pesate per peso ETF)
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NVDA 3.74% NVIDIA Corp
AAPL 3.46% Apple Inc

MSFT	3.16%	Microsoft Corp
2330.TW	2.95%	Taiwan Semiconductor Manufacturing Co Ltd
AMZN	1.64%	Amazon.com Inc
GOOGL	1.55%	Alphabet Inc Class A
META	1.42%	Meta Platforms Inc Class A
AVGO	1.19%	Broadcom Inc
GOOG	1.10%	Alphabet Inc Class C
TSLA	0.94%	Tesla Inc

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[INST] SENIOR PORTFOLIO ARCHITECT ANALYSIS
Framework Istituzionale (Vanguard Style)
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[TAG] CLASSIFICAZIONE ETF (deterministica, no metriche)

VWCE.DE	70.0%	EQUITY_UNKNOWN	risk=UNKNOWN	(DEFAULT)
IS3N.DE	20.0%	EQUITY_UNKNOWN	risk=UNKNOWN	(DEFAULT)
IS3Q.DE	10.0%	EQUITY_UNKNOWN	risk=UNKNOWN	(DEFAULT)

[WORLD] ESPOSIZIONE GEOGRAFICA EFFETTIVA:

(Calcolata considerando composizione interna ETF)

[US] USA	47.0%	#####
[ASIA] Emergenti	29.4%	#####
[EU] Europa	12.5%	###
[GLOBAL] Altri DM	5.9%	##
[JP] Giappone	5.2%	##

Totale: 100.0%

[WARN] GEOGRAPHIC DATA MISSING:
1 ticker (10.0% del portfolio) usano DEFAULT_GEO.
Ticker: IS3Q.DE
L'esposizione geografica per questi assume 60% USA (può essere impreciso).

[CONF] ESPOSIZIONE PER FUNZIONE ECONOMICA:

[UP] Core Growth (rendimento principale)	80.0%	#####
[ASIA] Esposizione Emergenti	20.0%	#####

[RESEARCH] ANALISI CONCENTRAZIONE E OVERLAP:

Max posizione singola:	70.0%
Top 3 posizioni:	100.0%
Top 5 posizioni:	100.0%
HHI (concentrazione):	0.540 (più basso = più diversificato)
N. effettivo posizioni:	1.9 (vs 3 nominali)

✓ Nessuna falsa diversificazione significativa rilevata

[STRONG] PUNTI DI FORZA STRUTTURALI:

1. Esposizione USA bilanciata (47%), non eccessivamente concentrato né sottopesato
2. Esposizione EM adeguata (29%) per catturare crescita mercati emergenti

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[INFO] VERDETTO FINALE: [OK] STRUCTURALLY COHERENT (Score: 60/100)
Struttura robusta e allineata al Risk Intent dichiarato

[PIN] Tutti i gate passati: data integrity OK, intent match OK, nessun problema strutt...

Motivazioni:

- Portafoglio classificato come EQUITY_CORE_DRIVEN con struttura coerente rispetto agli obiettivi impliciti
- Esposizione USA bilanciata (47%), non eccessivamente concentrato né sottopesato
- Esposizione EM adeguata (29%) per catturare crescita mercati emergenti
- Metriche di lungo periodo: CAGR 5.0%, Sortino 0.35, Max DD -38%
- Criticità strutturali richiedono revisione prima di implementazione

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Analisi condotta secondo framework Senior Portfolio Architect
Standard: Vanguard/BlackRock Institutional Guidelines
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DATA QUALITY

FX converted: ['IS3N.DE', 'IS3Q.DE', 'VWCE.DE']

Survivorship confidence: LOW (55%)

Survivorship warning: Survivorship bias: confidenza LOW (55%). Red flags: 3. Bias moderato: metriche affidabili per core ETF, ma cautela su Correlation shrinkage intensity: 96.4%

OPTIMIZATION ANALYSIS (Markowitz)

Current Sharpe:	0.641
Current Volatility:	14.52%
Current Exp. Return:	11.31%
Efficiency score vs. optimal:	65.8%
Sharpe gap:	0.333

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Volatility gap: 3.64%
Suggestions:
- Sharpe sub-ottimale: 0.64 vs 0.97 (gap 0.33)
- Volatilità riducibile: 14.5% vs 10.9% (gap 3.6%)

Key portfolios (CAGR/Vol/MaxDD/Sharpe | weights):
min_variance CAGR=11.81%
  Vol=17.42% MaxDD=-33.94% Sharpe=0.60 | VWCE.DE:28.6%, IS3N.DE:35.5%, IS3Q.DE:35.9%
max_sharpe   CAGR=11.99%
  Vol=17.40% MaxDD=-33.86% Sharpe=0.61 | VWCE.DE:23.4%, IS3N.DE:37.8%, IS3Q.DE:38.7%
max_return   CAGR=12.72%
  Vol=17.59% MaxDD=-33.58% Sharpe=0.65 | VWCE.DE:0.1%, IS3N.DE:49.9%, IS3Q.DE:50.0%
risk_parity   CAGR=11.73%
  Vol=17.44% MaxDD=-33.98% Sharpe=0.60 | VWCE.DE:31.0%, IS3N.DE:34.4%, IS3Q.DE:34.6%

Frontier points: 999 successful

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INTEGRATION TEST RESULTS
=====
Status: FAIL
Summary: exit_code=4
Duration: 0.25s

stdout (tail):
=====
test session starts =====
platform linux -- Python 3.14.2, pytest-9.0.2, pluggy-1.6.0 -- /usr/bin/python3
cachedir: .pytest_cache
rootdir: /home/nic/Desktop/Developer/GitHub/analisiPortafogli
configfile: pyproject.toml
plugins: cov-7.0.0, anyio-4.12.1
collecting ... collected 0 items
=====
no tests ran in 0.01s =====

stderr (tail):
ERROR: file or directory not found: tests/integration

[CHART] Placeholder grafico salvato: output/portfolio_analysis.png (legacy charts disabled)
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