



Shape Intelligence Engine (SIE)

Structural Report

The first module of T.I.P. — Tracking Intelligence Platform



Morocco

vs



Portugal

FIFA World Cup 2022

Match ID: 10512

Date: 10 December 2022

Final Score: **Morocco 1 - 0 Portugal**

Tracking data → Shape → Transition → Tactical Insight

SIE reports structural behaviour inferred from tracking data, including phase allocation, shape identity, defensive block behaviour, attacking profiles, and structural transitions.

Generated by T.I.P. — Tracking Intelligence Platform

A product by Dead Ball Analytics

Report generated on: 23 May 2026

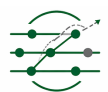
SIE Structural Report: Morocco vs Portugal

Match ID: 10512

Method note: SIE reports structural behaviour inferred from tracking data. It describes shape, phase, block behaviour, and transitions; it does not infer tactical intent unless directly supported by structural evidence.

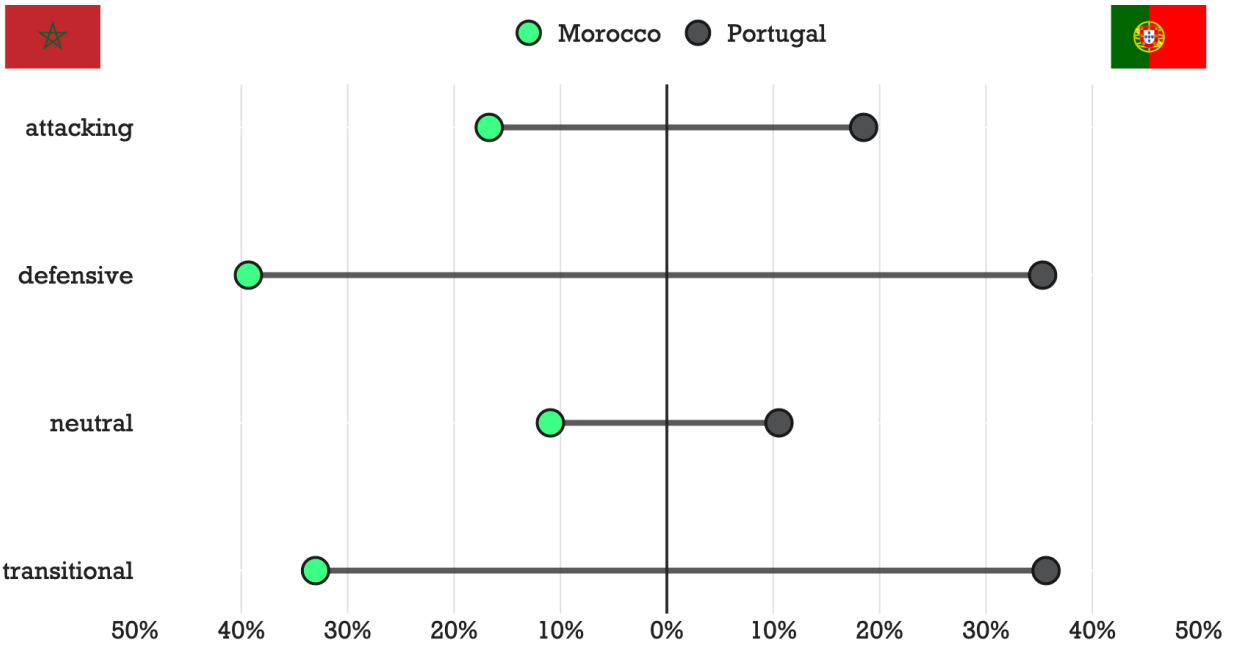
Executive Summary

- Morocco and Portugal had broadly similar phase allocations; the largest phase-share difference was 4.0 percentage points.
- Morocco's leading base shape was 3-5-2 (35.0%), with the top three shapes covering 82.4%.
- Portugal's leading base shape was 4-3-3 (36.9%), with the top three shapes covering 88.0%.
- Morocco repeatedly alternated between 4-4-2 and 5-3-2 (17 and 15 transitions).
- Portugal repeatedly alternated between 4-4-2 and 3-5-2 (11 and 10 transitions).
- Morocco's defensive block was classified as stable for 71.9% of defensive-block observations.



1. Phase Behaviour

Tactical Phase Distributions



SIE is the analytical engine of T.I.P., transforming positional data into structural intelligence that reveals how teams shape the game.

Morocco and Portugal showed similar phase distributions, with no phase differing by more than 4.0 percentage points.

- **Attacking:** Morocco 16.7%; Portugal 18.5%.
- **Defensive:** Morocco 39.3%; Portugal 35.3%.
- **Neutral:** Morocco 10.9%; Portugal 10.5%.
- **Transitional:** Morocco 33.0%; Portugal 35.6%.

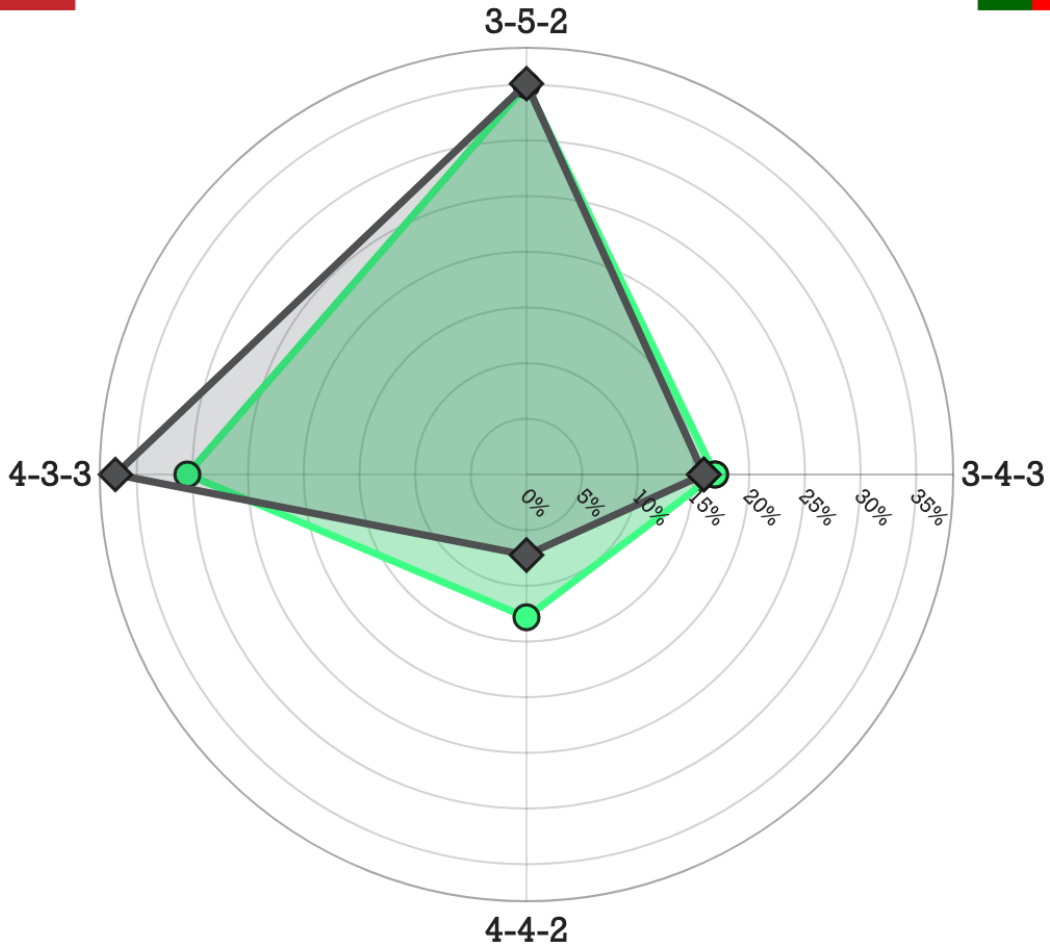


2. Structural Identity

Base Shape Distributions



● Morocco ◆ Portugal



SIE
SHAPE INTELLIGENCE ENGINE
FOR T.I.P.

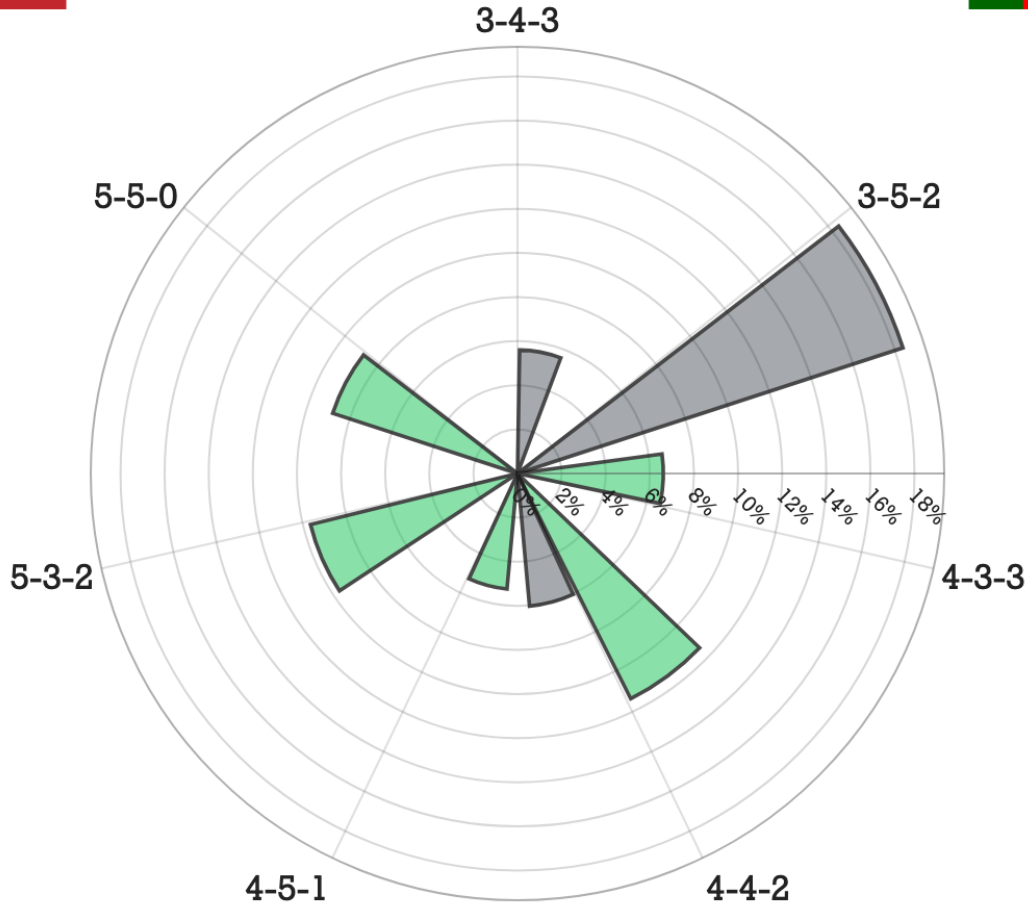
SIE is the analytical engine of T.I.P., transforming positional data into structural intelligence that reveals how teams shape the game.



Native Shape Distributions



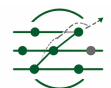
■ Morocco
 ■ Portugal



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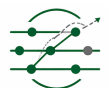
Morocco

- Native structures were distributed. The most frequent native shape was **4-4-2** (11.4%); top three: 4-4-2 (11.4%), 5-3-2 (9.7%), 5-5-0 (8.8%).
- Base identity was led by **3-5-2** (35.0%); top three shapes: 3-5-2 (35.0%), 4-3-3 (30.5%), 3-4-3 (16.9%).



Portugal

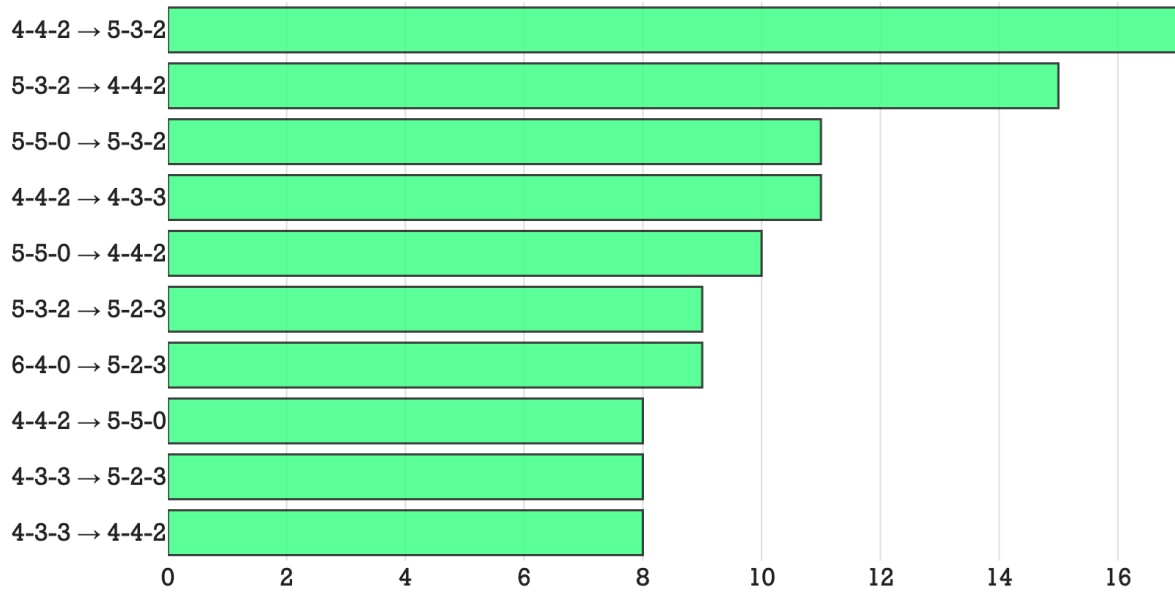
- Native structures were distributed. The most frequent native shape was **3-5-2** (18.4%); top three: 3-5-2 (18.4%), 4-4-2 (6.0%), 3-4-3 (5.6%).
- Base identity was led by **4-3-3** (36.9%); top three shapes: 4-3-3 (36.9%), 3-5-2 (35.1%), 3-4-3 (15.9%).



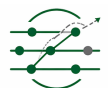
3. Transition Dynamics



Morocco Top Transitions (Native)

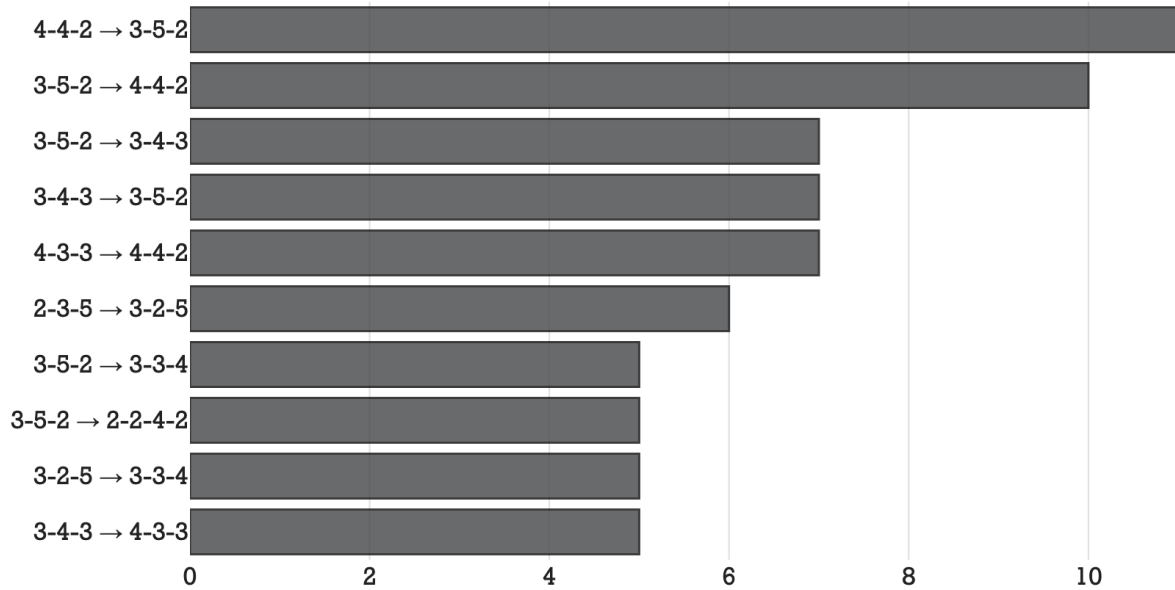


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Portugal Top Transitions (Native)



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Morocco

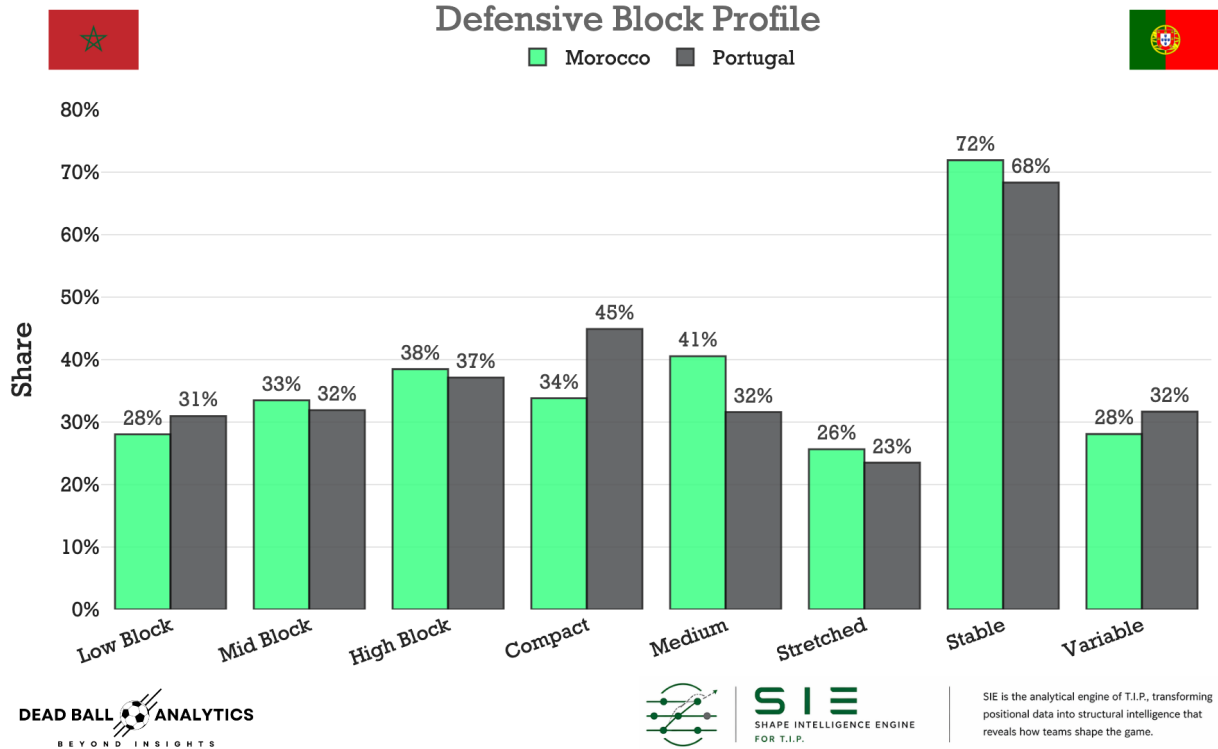
- Repeated reciprocal pathway: **4-4-2 ↔ 5-3-2** (4-4-2 → 5-3-2: 17; 5-3-2 → 4-4-2: 15).
- Strong one-way pathway: **4-4-2 → 4-3-3**, occurring 11 times.

Portugal

- Repeated reciprocal pathway: **4-4-2 ↔ 3-5-2** (4-4-2 → 3-5-2: 11; 3-5-2 → 4-4-2: 10).
- Notable one-way pathway: **3-4-3 → 3-5-2**, occurring 7 times.



4. Defensive Block Profile

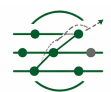


Morocco

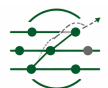
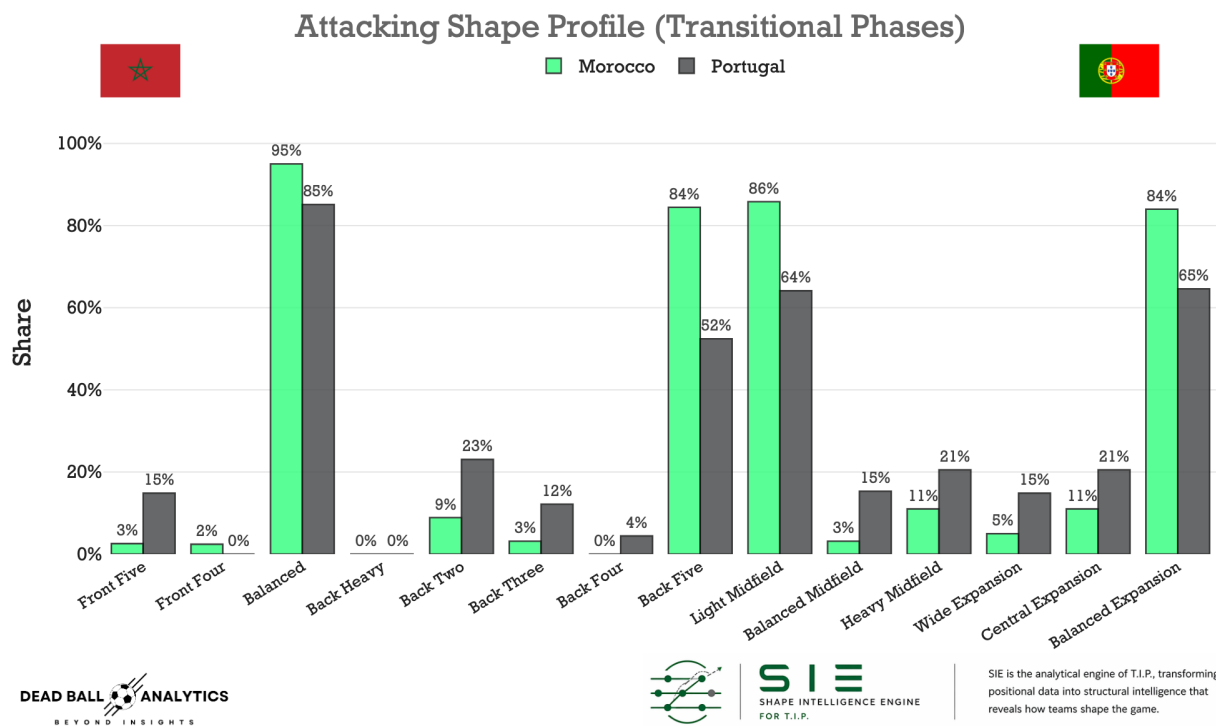
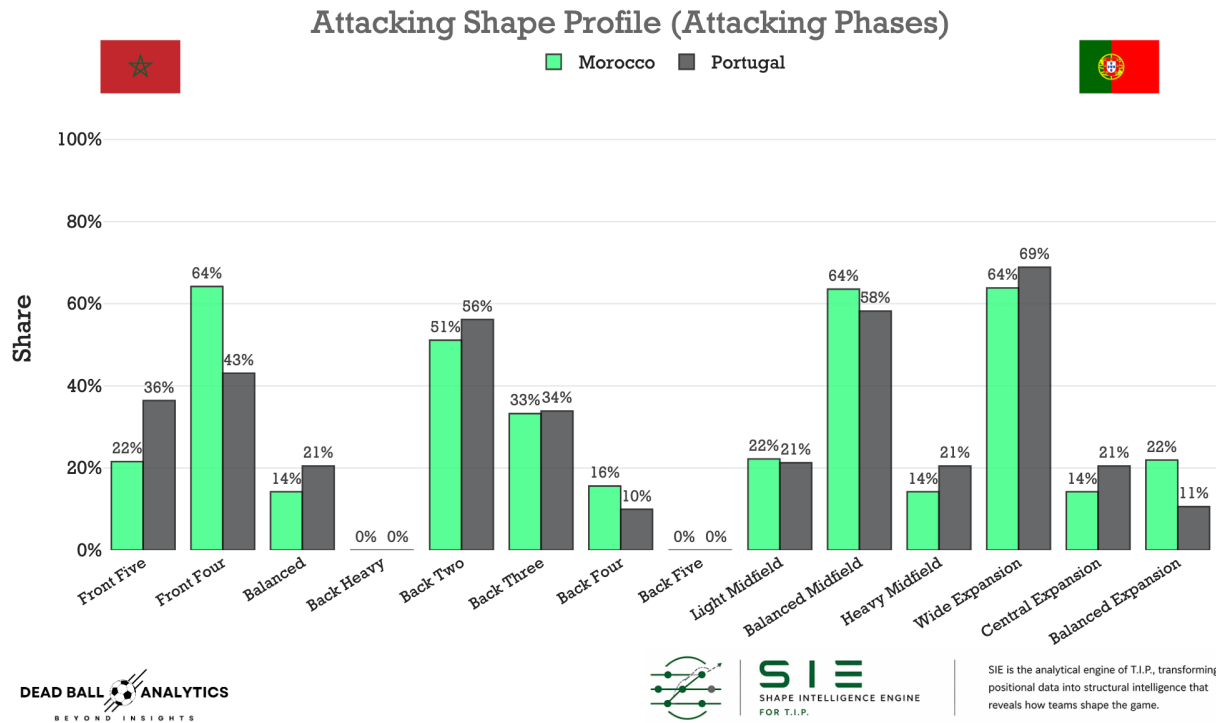
- Primary block profile: **high block, medium block, stable block.**
- Block height distribution: low 28.0%, mid 33.5%, high 38.5%.
- Compactness distribution: compact 33.8%, medium 40.5%, stretched 25.7%.

Portugal

- Primary block profile: **high block, compact block, stable block.**
- Block height distribution: low 31.0%, mid 31.9%, high 37.1%.
- Compactness distribution: compact 44.9%, medium 31.6%, stretched 23.5%.



5. Attacking Shape Profile

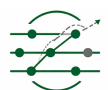


Morocco

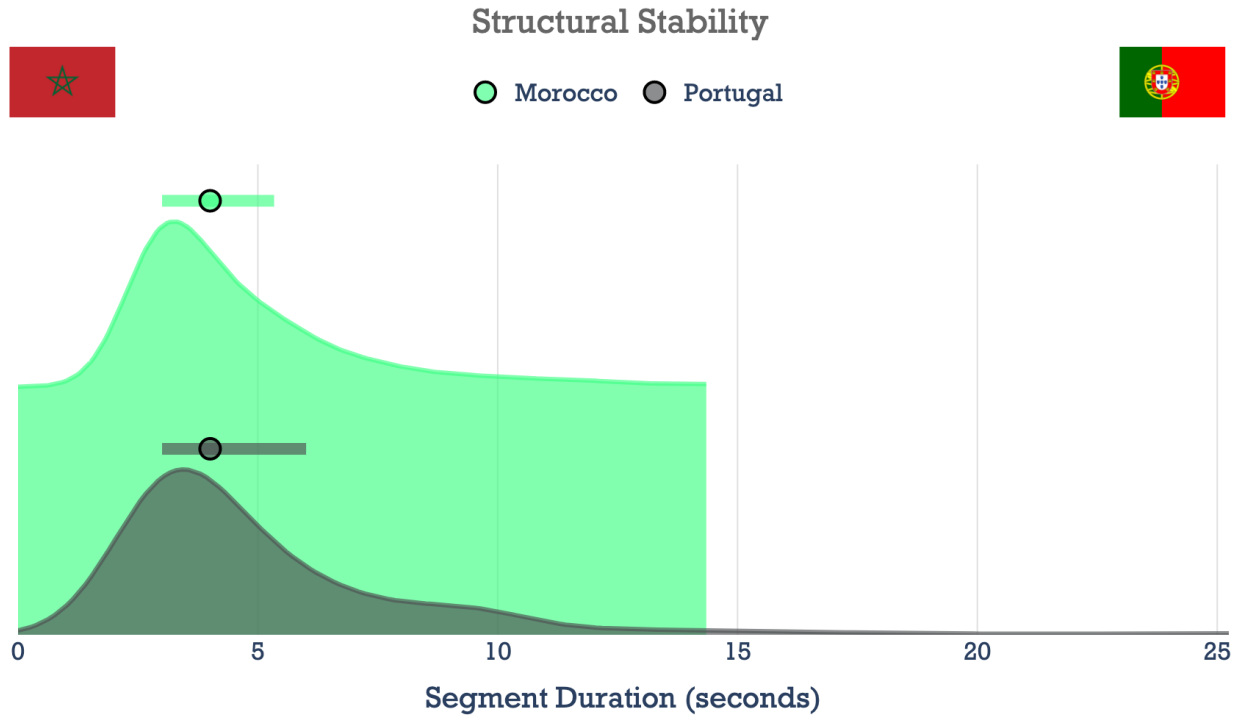
- In **attacking** phases, the structural profile was classified as **front four platform**, with **back two build**, **balanced midfield**, and **wide expansion**.
 - Clear signals: attacking platform: front four platform (64.2%); midfield profile: balanced midfield (63.6%); expansion profile: wide expansion (63.8%).
- In **transitional** phases, the structural profile was classified as **balanced attack**, with **back five build**, **light midfield**, and **balanced expansion**.
 - Clear signals: attacking platform: balanced attack (95.0%); build base: back five build (84.5%); midfield profile: light midfield (85.8%); expansion profile: balanced expansion (84.0%).

Portugal

- In **attacking** phases, the structural profile was classified as **front four platform**, with **back two build**, **balanced midfield**, and **wide expansion**.
 - Clear signals: build base: back two build (56.2%); midfield profile: balanced midfield (58.2%); expansion profile: wide expansion (68.9%).
- In **transitional** phases, the structural profile was classified as **balanced attack**, with **back five build**, **light midfield**, and **balanced expansion**.
 - Clear signals: attacking platform: balanced attack (85.2%); midfield profile: light midfield (64.1%); expansion profile: balanced expansion (64.6%).

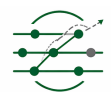


6. Temporal Structure



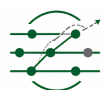
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- Morocco showed frequent short structural segments (mean segment duration 4.8s), indicating rapid structural turnover in the detected shape timeline.
- Portugal showed frequent short structural segments (mean segment duration 5.4s), indicating rapid structural turnover in the detected shape timeline.



Summary Interpretation

Morocco and Portugal showed similar phase allocations, but their structural pathways differed. Morocco's dynamics centred on a repeated 4-4-2 \leftrightarrow 5-3-2 pathway. Portugal's most repeated reciprocal pathway was 4-4-2 \leftrightarrow 3-5-2. Both teams were classified with high block defensive profiles, although Morocco's compactness profile was medium block and Portugal's was compact block.



Appendix: Evidence Tables

Phase Shares

- Morocco: attacking 16.7%, defensive 39.3%, neutral 10.9%, transitional 33.0%.
- Portugal: attacking 18.5%, defensive 35.3%, neutral 10.5%, transitional 35.6%.

Top Transitions

- Morocco: 4-4-2 → 5-3-2 (17); 5-3-2 → 4-4-2 (15); 4-4-2 → 4-3-3 (11).
- Portugal: 4-4-2 → 3-5-2 (11); 3-5-2 → 4-4-2 (10); 3-4-3 → 3-5-2 (7).

