



COSME

Midline Report

Comprehensive Analysis of Project Impact
Kilifi & Kwale Counties, Kenya

Report Date: February 2026

345

Women
Surveyed

267

Men
Surveyed

65

Schools
Assessed

12/13

Indicators
Exceeded

Plan International Kenya — COSME & Gender Just & Justice Programme

Survey Data: Women COSME (n=345) | Men COSME (n=267) | GJJ Women KAP (n=312) | GJJ Men KAP (n=289)

Table of Contents

- 1. Executive Summary & Key Findings**
 - 2. Women COSME Survey (n=345)**
 - 3. Men COSME Survey (n=267)**
 - 4. GJJ KAP Women (n=312)**
 - 5. GJJ KAP Men (n=289)**
 - 6. Forestry Groups (28 groups)**
 - 7. Pre/Post Tests — Forest & Mangrove**
 - 8. Schools Dashboard (65 schools)**
 - 9. Seaweed Assessment (19 groups, 610 women)**
 - 10. VSLA Monitoring (211 assessments)**
 - 11. Project Outputs — Training Completion**
 - 12. Logframe Indicators Summary**
 - 13. Cross-Dataset Synthesis**
 - 14. Theory of Change & Impact Evidence**
 - 15. Recommendations**
- Appendix A.** Appendix: Sample Sizes & Methodology

1. Executive Summary

This midline report presents findings from the COSME (Conservation of Seascapes and Mangrove Ecosystems) and GJJ (Gender Just & Justice) programme operating across Kilifi and Kwale counties in coastal Kenya. The report synthesizes data from multiple survey instruments covering women's empowerment, men's engagement, climate and nature-based solutions (NbS), financial inclusion, disaster preparedness, forestry conservation, school WASH infrastructure, seaweed value chains, and VSLA group performance.

Overall Performance: 12 of 13 quantitative logframe indicators have **EXCEEDED** their midline targets, with 1 indicator **ON TRACK**. The programme demonstrates transformative impact across savings (+63pp VSLA participation), climate awareness (+36pp), women's decision-making (+38pp), and NbS participation (+45% average improvement).

Programme-Wide Key Performance Indicators

Women VSLA Participation 98.0% +54.4pp	Climate Awareness 96.3% +35.8pp	Women Taking Loans 79.1% +51.1pp	Indicators Exceeded 12/13 92%
Women Decision Involvement 95.9% +38.3pp	NbS Knowledge (Women) 80.9% +60.2pp	Men's CC Awareness 100% +22.2pp	Functional CEC Groups 85.7% +32.2pp

Key Highlights Across All Surveys

Domain	Key Finding	Change	Status
Savings & Financial	VSLA Participation: 43.6% → 98.0%	+54.4pp	EXCEEDED
Climate & NbS	Climate awareness: 60.5% → 96.3%	+35.8pp	EXCEEDED
Women Empowerment	HH decision involvement: 57.6% → 95.9%	+38.3pp	EXCEEDED
Men's Engagement	Support female NbS: avg +60pp	+60pp	EXCEEDED
Disaster Preparedness	Early warning access: 8.9% → 45.0%	+36.1pp	EXCEEDED
Forestry Groups	Functional groups ≥70%: 53.5% → 85.7%	+32.2pp	EXCEEDED
Schools WASH	Clean water access: 23.4% → 62.5%	+39.1pp	EXCEEDED
Training Knowledge	Forest knowledge ≥70%: 50% → 94.7%	+44.7pp	EXCEEDED
Personal Skills	Women skills & confidence: 32.7% → 46.3%	+13.6pp	ON TRACK

2. Women COSME Survey

Sample Size: 345 Women | **Survey Type:** Midline | **Location:** Kilifi & Kwale Counties, Kenya

Women Taking Loans 79.1% ↑ 51.1pp from 28.0%	VSLA Participation 98.0% ↑ 54.4pp from 43.6%	Climate Knowledge 96.3% ↑ 35.8pp from 60.5%	Joint Decisions 58.8% ↑ 13.8pp from 45.0%
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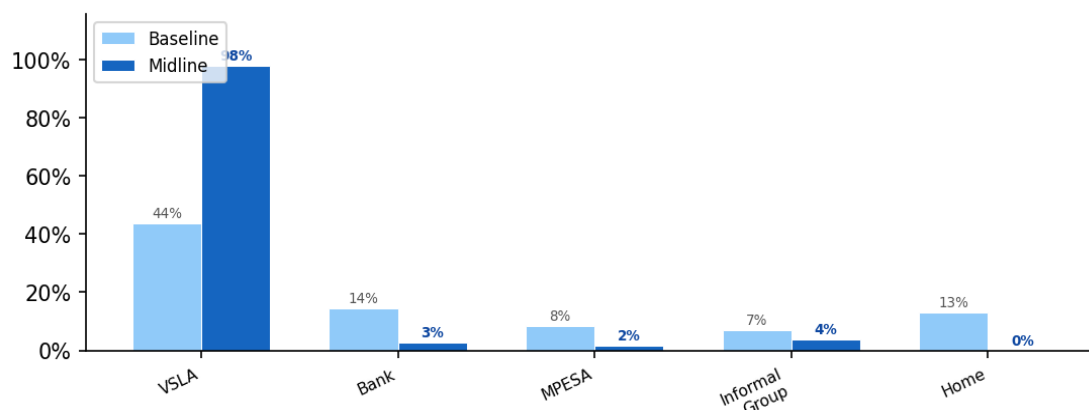
2.1 Logframe Indicator Performance

Indicator	Baseline	Target	Midline	Change	Status
1200a. Women HH/group decision involvement	57.6%	65.0%	95.9%	+38.3pp	EXCEEDED
1200b. Women unpaid work time	9.3 hrs	8.3 hrs	7.7 hrs	-1.6 hrs	EXCEEDED
1200c. Women access/control resources	41.2%	50.0%	53.8%	+12.6pp	EXCEEDED
1210a. Women NbS/Econ Rights knowledge	20.7%	55.0%	80.9%	+60.2pp	EXCEEDED
1210b. Women personal skills & confidence	32.7%	55.0%	46.3%	+13.6pp	ON TRACK
1210c. Women perceived equal (score)	42.1	55.0	64.7	+22.6 pts	EXCEEDED
1220a. Women actively saving in groups	28.8%	70.0%	91.9%	+63.1pp	EXCEEDED
1220b. Women access time-saving tech	50.8%	80.0%	83.1%	+32.3pp	EXCEEDED

2.2 Household Characteristics

Characteristic	Baseline	Midline	Change
Female-headed households	51.0%	57.7%	+6.7pp
Small Business (main activity)	17.6%	30.3%	+12.7pp
Agriculture	34.8%	38.8%	+4.0pp
Casual Labour	25.5%	11.6%	-13.9pp
Safe Water Access	84.3%	79.7%	-4.6pp
Toilet Facility	70.3%	72.5%	+2.2pp
Marine Location	—	57.2%	—
Terrestrial Location	—	42.8%	—

Women Savings Mechanisms — Baseline vs Midline



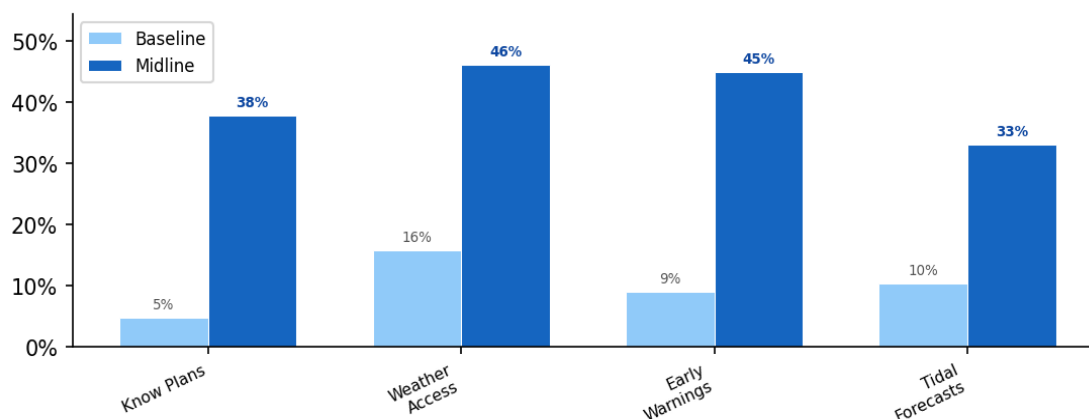
2.3 Shocks, Stresses & Coping Strategies

Shock/Coping	Baseline	Midline	Change
Drought	69.1%	63.4%	-5.7pp
Heat/Cold Waves	8.6%	22.8%	+14.2pp
Flooding	4.7%	10.0%	+5.3pp
Very Large Impact	32.7%	20.0%	-12.7pp
Took Loan to Cope	4.7%	25.8%	+21.1pp
Used Savings	11.2%	15.8%	+4.6pp
Skipped Meals	41.6%	43.8%	+2.2pp

2.4 Disaster Preparedness

Indicator	Baseline	Midline	Change
Know Disaster Plans	4.7%	37.8%	+33.1pp
Weather Access	15.7%	46.2%	+30.5pp
Early Warnings	8.9%	45.0%	+36.1pp
Tidal Forecasts	10.3%	33.1%	+22.8pp
Preparedness Training	11.8%	80.6%	+68.8pp

Women — Disaster Preparedness Improvement

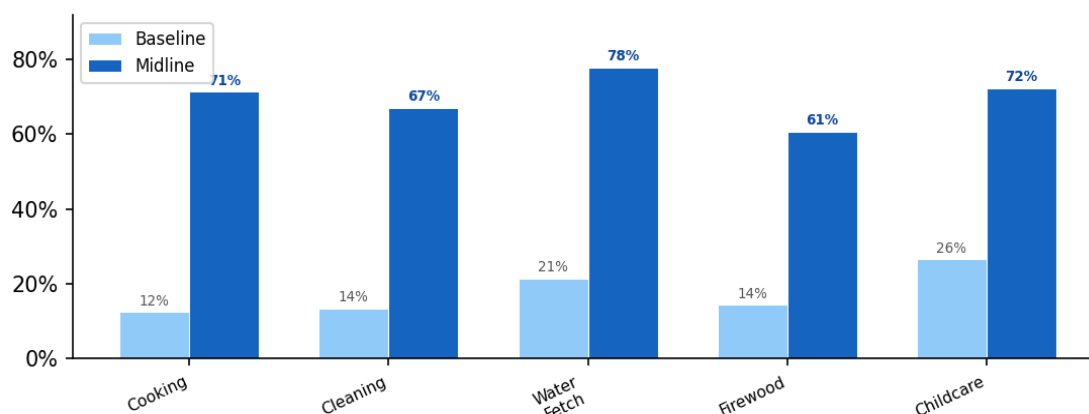


2.5 Asset Ownership & Resources

Asset	Baseline	Midline	Change
Cellphones	47.0%	62.5%	+15.5pp
Solar Panels	9.2%	31.6%	+22.4pp
Cooking Stoves	3.5%	39.7%	+36.2pp
Furniture	17.3%	23.1%	+5.8pp
Land Owned	92.7%	73.4%	-19.3pp
Land Leased	6.0%	19.6%	+13.6pp
Fertilizer Purchased	84.7%	98.4%	+13.7pp

2.6 Time Use & Household Responsibilities

Activity	Baseline	Midline	Change
Unpaid Care (hrs/day)	9.3	7.7	-1.6 hrs
Productive Work (hrs/day)	4.2	4.9	+0.7 hrs
Community Work (hrs/day)	0.4	1.8	+1.4 hrs
Women Cooking Alone	87.0%	28.8%	-58.2pp
Women Cleaning Alone	85.3%	32.5%	-52.8pp
Women Fetching Water Alone	76.6%	22.2%	-54.4pp
Women Childcare Alone	70.7%	25.3%	-45.4pp

Belief That Tasks Should Be Joint — % Agreeing

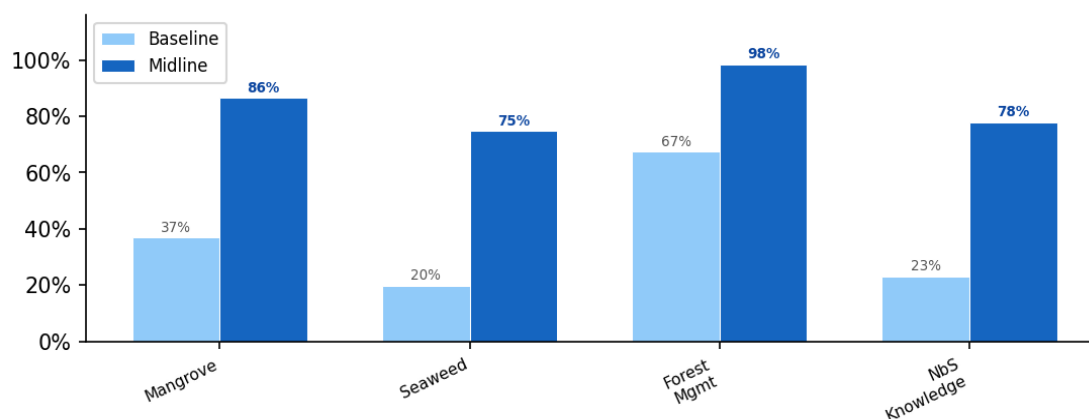
2.7 Decision Making

Decision Type	Baseline	Midline	Change
Market Access (Joint)	13.5%	48.1%	+34.6pp
Mangrove/Seaweed Work (Joint)	9.8%	49.1%	+39.3pp
Routine Purchases (Joint)	25.6%	50.6%	+25.0pp
Business/Loans (Joint)	40.2%	59.4%	+19.2pp
Child Education (Joint)	58.1%	59.7%	+1.6pp

2.8 Climate Change & Nature-Based Solutions

Indicator	Baseline	Midline	Change
Climate Change Awareness	60.5%	96.3%	+35.8pp
NbS Knowledge	23.1%	77.8%	+54.7pp
Mangrove Active	36.9%	86.5%	+49.6pp
Seaweed Active	19.8%	74.7%	+54.9pp
Forest Management	67.4%	98.4%	+31.0pp
Increased Drought Knowledge	54.7%	75.9%	+21.2pp
Carbon Capture Knowledge	2.8%	33.1%	+30.3pp

Women — NbS Participation & Knowledge



2.9 Life Skills & Psychosocial Empowerment

Area	Baseline	Midline	Change
Positive Qualities (agree)	88.5%	97.2%	+8.7pp
Respected	78.2%	97.8%	+19.6pp
Life Meaning	93.5%	99.4%	+5.9pp
Can Lead	59.1%	94.1%	+35.0pp
Express with Community	52.5%	87.2%	+34.7pp
Convince Others	61.5%	92.5%	+31.0pp

2.10 Social Norms & Gender Attitudes

Note: Higher agreement with gendered norms indicates persistence of harmful attitudes. Some increases require further investigation and represent areas of concern.

Norm	Baseline	Midline	Direction
Man Provides Income	40.2%	75.4%	■ Concerning increase
Only Men Drive Boats	23.5%	88.1%	■ Concerning increase
Better Business Ideas (Men)	64.4%	74.1%	Modest increase
Harassment Victim Fault	36.8%	55.3%	■ Concerning increase
Mangrove = Women's Work	73.7%	89.1%	Positive shift
Seaweed = Women's Work	70.5%	91.3%	Positive shift

3. Men COSME Survey

Sample Size: 267 Male Household Members | **Survey Type:** Midline | **Location:** Kilifi & Kwale Counties

CC Awareness 100% ↑ 22.2pp from 77.8%	NbS Knowledge 89.8% ↑ 47.4pp from 42.4%	Support Women NbS 86.8% ↑ 60.4pp avg	Harmful Norms ↓ -36.4pp Only men drive boats
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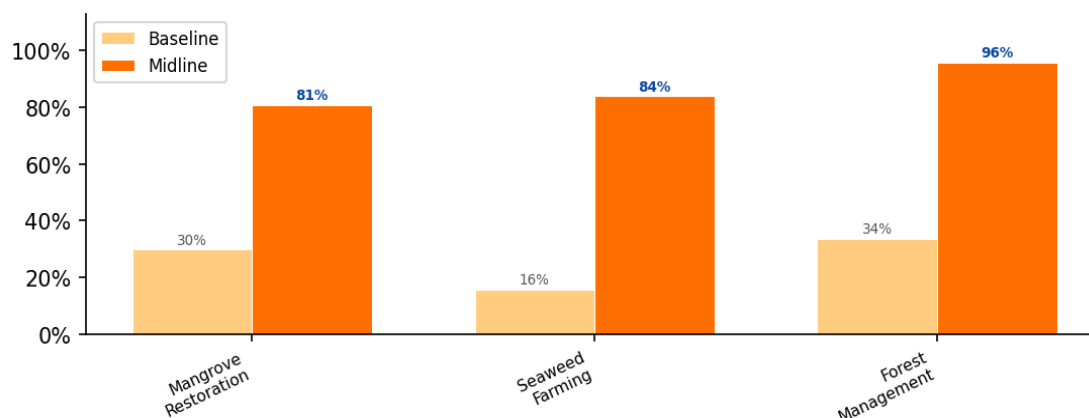
3.1 Logframe Indicator Performance

Indicator	Baseline	Target	Midline	Change	Status
1230a. Male NbS/economic rights knowledge	54.7%	65.0%	80.3%	+25.6pp	EXCEEDED
1230b. Women perceived equal by men (score)	41.2/100	55/100	71/100	+29.8 pts	EXCEEDED

3.2 Key Findings Summary

Domain	Key Metric	Change
Climate & NbS	CC awareness 77.8% → 100%, NbS 42.4% → 89.8%	+22.2pp / +47.4pp
Support Female Conservation	Mangrove +51pp, Seaweed +68pp, Forest +62pp	Avg +60pp
Household Responsibility	Joint cooking belief +50.5pp, cleaning +59.6pp	+82.6% care time
Joint Decision-Making	Large purchases: 59.6% → 89.8%	+30.2pp
Harmful Norms Reduction	Harassment victim fault: 67.6% → 30.7%	-36.9pp
Time Investment	Unpaid care: 2.3 → 4.2 hrs/day	+82.6%
Savings	Personally saving: 31.4% → 68.2%	+36.8pp

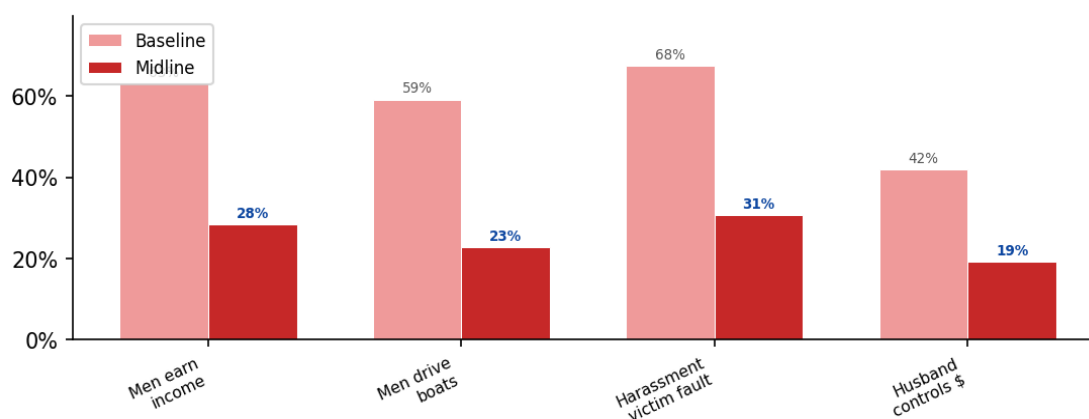
Men's Support for Women's NbS Participation



3.3 Harmful Norms Reduction (Men)

Norm	Baseline	Midline	Change
Only men earn income	63.1%	28.4%	-34.7pp ✓
Only men drive boats	59.2%	22.7%	-36.4pp ✓
Harassment victim fault	67.6%	30.7%	-36.9pp ✓
Husband controls woman income	41.9%	19.3%	-22.6pp ✓
Men should do domestic work	42.1%	71.8%	+29.7pp ✓
Women should participate in decisions	48.3%	82.6%	+34.3pp ✓

Men — Harmful Norms Reduction (Lower = Better)



4. GJJ KAP Women Survey

Sample Size: 312 Women | **Survey Type:** Endline (Knowledge, Attitudes & Practices)

Self-Esteem (SA) 52.6% ↑ 19.1pp from 33.5%	Equal Perception 48.2% ↑ 27.8pp from 20.4%	HH Chore Support 64.7% ↑ 23.3pp from 41.4%	Decision Talk 81.7% ↑ 21.5pp from 60.2%
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Domain	Indicator	Baseline	Endline	Change
SELF	Strengths & qualities (SA)	33.5%	52.6%	+19.1pp
SELF	Equal perception (SA)	20.4%	48.2%	+27.8pp
SELF	Voice opinions in community (SA)	26.7%	65.9%	+39.2pp
RELATIONAL	Respected by partner (Always)	43.1%	39.1%	-4.0pp ■
SHARED RESP.	Husband supports chores	41.4%	64.7%	+23.3pp
SHARED RESP.	Weekly chore discussion	63.7%	94.5%	+30.8pp
SHARED POWER	Decision conversations	60.2%	81.7%	+21.5pp
SHARED POWER	Husband alone decisions	8.8%	2.0%	-6.8pp ✓
AUTONOMY	Business support (Definitely)	84.9%	64.2%	-20.7pp ■
AUTONOMY	Money hiding (Always)	12.0%	3.3%	-8.7pp ✓

Household Decision Types

Decision Type	Baseline	Endline	Change
Purchase household assets	17.6%	22.0%	+4.4pp
Send/remove child from school	39.8%	50.6%	+10.8pp
Invest in business	18.4%	22.1%	+3.7pp
Seek healthcare	6.6%	20.3%	+13.7pp

5. GJJ KAP Men Survey

Sample Size: 289 Men | **Survey Type:** Endline (Knowledge, Attitudes & Practices)

Self Responsibility 70.3% ↑ 20.2pp from 50.1%	Respected by Partner 83.5% ↑ 53.4pp from 30.1%	Always Does Chores 42.2% ↑ 24.5pp from 17.7%	Decision Conversations 97.1% ↑ 9.2pp from 87.9%
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Domain	Indicator	Baseline	Endline	Change
SELF	Responsibility (SA)	50.1%	70.3%	+20.2pp
SELF	Learn & grow (SA)	47.7%	71.2%	+23.5pp
SELF	Equal perception (SA)	44.0%	61.1%	+17.1pp
SELF	Self-compassion (Frequently)	61.1%	75.4%	+14.3pp
RELATIONAL	Respected by partner (Always)	30.1%	83.5%	+53.4pp
RELATIONAL	Laugh together (Always)	52.2%	83.5%	+31.3pp
RELATIONAL	Accept 'No' (Always)	40.5%	60.2%	+19.7pp
SHARED RESP.	Always does chores	17.7%	42.2%	+24.5pp
SHARED RESP.	Support chores (Yes)	86.9%	92.7%	+5.8pp
SHARED POWER	Decision conversations	87.9%	97.1%	+9.2pp
SHARED POWER	Support wife leadership (Always)	53.1%	64.9%	+11.8pp
AUTONOMY	Business support (Definitely)	53.5%	67.6%	+14.1pp
AUTONOMY	Combined strong support	54.1%	89.5%	+35.4pp

6. Forestry Groups Assessment

Scope: 28 Community Forest Conservation Groups assessed (Baseline: 43 groups) | **Survey Type:** Midline

Functionality >70% 85.7% ↑ 32.2pp from 53.5%	Gender Domain Score 63.5% ↑ 20.7pp from 42.8%	Income Generating 62.5% ↑ 25.0pp from 37.5%	Group Registration 85.0% ↑ 12.5pp from 72.5%
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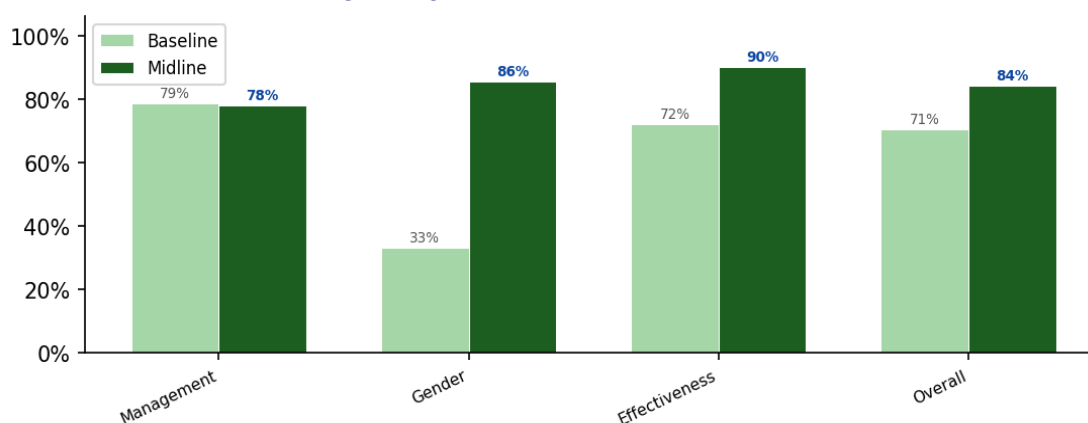
6.1 Logframe Indicator

Indicator	Baseline	Target	Midline	Change	Status
1130b. Functional groups (≥70% score)	53.5%	70.0%	85.7%	+32.2pp	EXCEEDED

6.2 Domain Scores

Domain	Baseline	Midline	Change
Management	78.6%	78.0%	-0.6pp
Gender	32.9%	85.5%	+52.6pp
Effectiveness	72.0%	90.1%	+18.1pp
Overall	70.6	84.2	+13.6pp

Forestry Group Domain Scores — Baseline vs Midline



6.3 Forest Condition & Conservation

Indicator	Baseline	Midline	Change
Area 'Good' Condition	30.0%	52.5%	+22.5pp
Biodiversity 'Good'	25.0%	47.5%	+22.5pp

Indicator	Baseline	Midline	Change
Fire Threat 'High'	35.0%	15.0%	-20.0pp ✓
Charcoal Threat 'High'	40.0%	17.5%	-22.5pp ✓
Encroachment 'High'	32.5%	15.0%	-17.5pp ✓
Income-generating	37.5%	62.5%	+25.0pp
Agroforestry	32.5%	57.5%	+25.0pp
Women in Leadership	17.5%	35.0%	+17.5pp
GE Discussions	40.0%	72.5%	+32.5pp

7. Pre/Post Tests — Forest & Mangrove Training

7.1 Forest Conservation Training

Pre-Test Participants: 546 | **Post-Test Participants:** 909

Indicator	Pre-Test	Target	Post-Test	Change	Status
1130a. Adequate knowledge (≥70%)	50.0%	68.0%	94.7%	+44.7pp	EXCEEDED

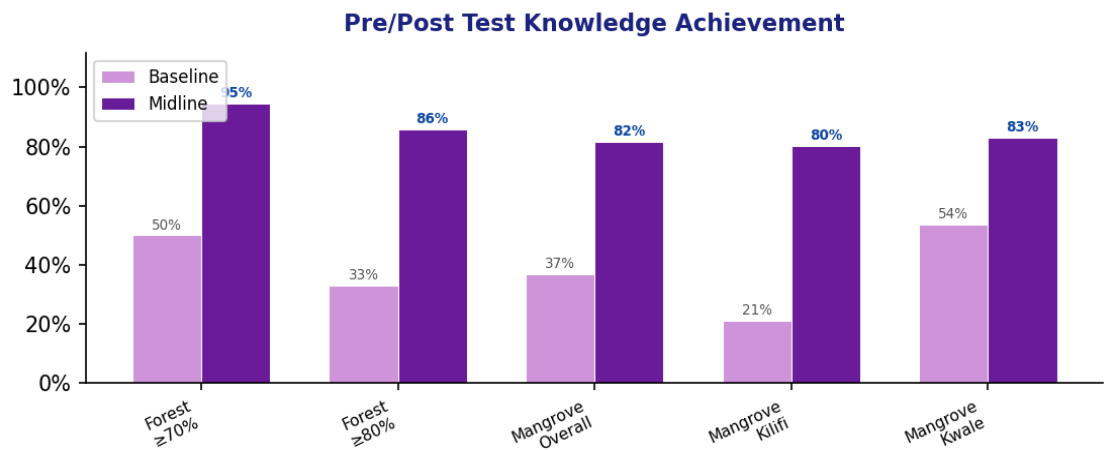
Metric	Pre-Test	Post-Test	Change
Average Score	65.2%	85.4%	+20.2pp
≥70% Threshold	50.0%	94.7%	+44.7pp
≥80% Threshold	32.9%	85.7%	+52.8pp
Forest Ecosystems	56.6%	91.5%	+34.9pp
Ecosystem Services	—	99.7%	Highest
Carbon Sequestration	—	99.2%	High

7.2 Mangrove Restoration Training

Indicator	Pre-Test	Target	Post-Test	Change	Status
1110a. Adequate mangrove knowledge	36.9%	57.0%	81.9%	+45.0pp	EXCEEDED

Metric	Pre-Test	Post-Test	Change
Overall Adequate Knowledge	36.9%	81.5%	+44.6pp
Kilifi	21.1%	80.1%	+59.0pp
Kwale	53.7%	83.1%	+29.4pp
Female	34.7%	87.4%	+52.7pp
Male	38.2%	80.2%	+42.0pp

Key Insight: Women outperformed men by 7.2pp at post-test despite starting 3.5pp below.



8. Schools Dashboard

Scope: 65 schools assessed | **Counties:** Kwale (35) & Kilifi (30) | **Total Students:** 44,301

Indicator	Baseline	Target	Midline	Change	Status
1310c. Schools with clean water access	23.4%	60.0%	62.5%	+39.1pp	EXCEEDED

8.1 School Enrollment

County	Schools	Boys	Girls	Total
Kwale	35	9,960	9,433	19,393
Kilifi	30	12,739	12,169	24,908
Total	65	22,699	21,602	44,301

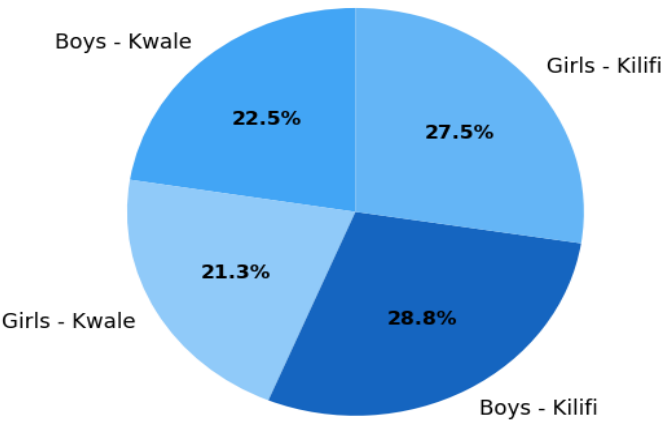
8.2 Water Infrastructure & WASH

Indicator	Baseline	Midline	Notes
Borehole	44.2%	52.3%	+8.1pp
Rainwater Collection	13.0%	27.7%	+14.7pp
Water Tanks	2.6%	9.2%	+6.6pp
Year-round Water	49.4%	55.4%	+6.0pp
Schools receiving tanks/gutters	—	83%	—
Solvatten kits used	—	49%	—
Hygiene training	—	74%	—
Maintenance budget	—	20%	Only 20%

8.3 4K Clubs

Metric	Value
Schools with clubs	97%
Total members	5,065
Female members	2,917 (57.6%)
Male members	2,148 (42.4%)
Materials received	92%
Environmental initiatives	81.5%

School Enrollment Distribution (n=44,301)



9. Seaweed Assessment

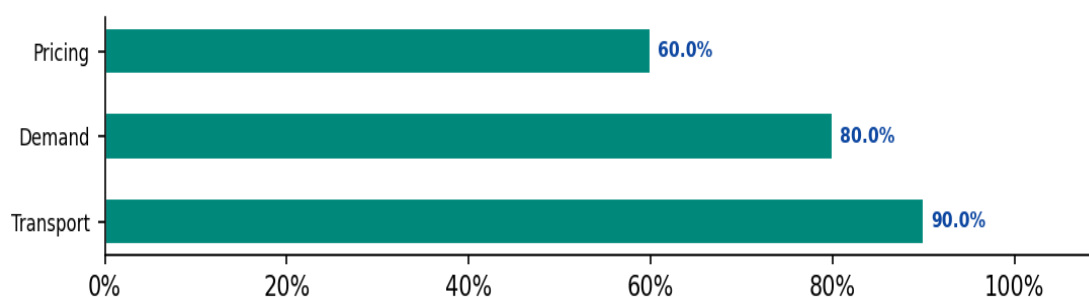
Scope: 19 groups | **610 active female members** | **Assessment Period:** July 2025

Metric	Value
Women-led groups	94.7%
Formal leadership	100%
Meet weekly	73.7%
Production active	89.5%
Total harvest (kg)	96,086
Improved yield after sustainable practices	78.9%
Off-bottom method	78.9%
Regenerative practices	89.5%
Groups selling	47.4%
Average price (KES/kg)	81.1
Training: farming	100%
Training: business	26.3%
Formal buyer agreements	5.3%

Logframe Indicator 1100c

Measure	Count
Groups with regenerative production	17
Groups with value addition	13
Groups with commercialization	9

Seaweed Groups — Top Challenges (% Reporting)



10. VSLA Monitoring

Scope: 211 assessments | **173 unique groups** | **Counties:** Kilifi & Kwale

Indicator	Value
1220a. % women actively saving	78.6%
Assessments conducted	211
Unique groups	173
Dashboard pages	6 (Overview, Participation, Savings, Loans, Social Fund, Loan Use)
Filters available	County, Reporting Cycle (1-3), Quarter (Q2-Q4), Group

11. Project Outputs — Training Completion

11.1 Mangrove Training (Output 1112)

Metric	Value	Target	Achievement
Groups formed	42	40	105%
Members registered	1,344	1,200	112%
Female members	973 (72%)	—	—
Male members	371 (28%)	—	—
Grand Total Completed	842	1,200	70%

Module	Target	Completed	Target %	Reg %
Module 1	1,200	1,121	93%	83%
Module 2	1,200	961	80%	72%
Module 3	1,200	842	70%	63%
Module 4	1,200	753	63%	56%
Module 5	1,200	535	45%	40%

11.2 Forestry Training (Output 1131)

Metric	Value	Target	Achievement
Groups formed	52	45	116%
Members registered	1,440	1,350	107%
Female members	1,141 (79%)	—	—
Male members	299 (21%)	—	—
Grand Total Completed	1,030	1,350	76%

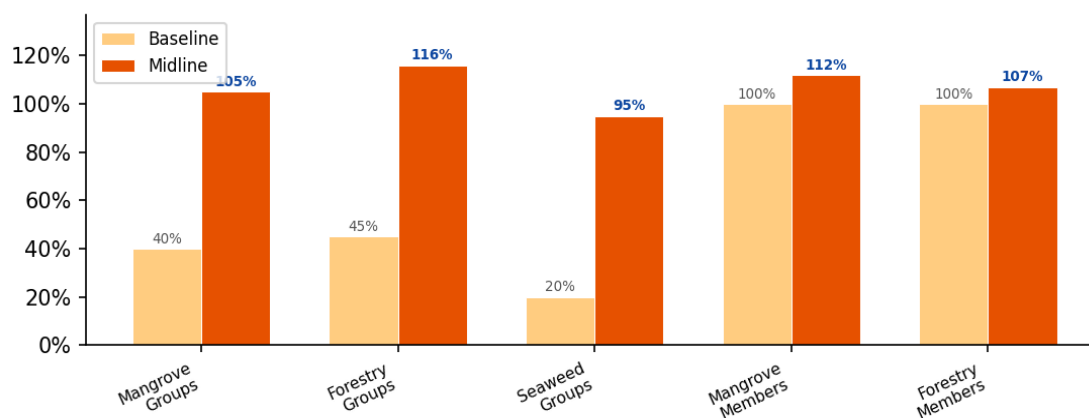
11.3 Seaweed Training (Output 1122)

Metric	Value	Target	Achievement
Groups formed	19	20	95%
Members registered	842	600	140%
Female members	651 (77%)	—	—
Grand Total Completed	462	600	77%

11.4 VSLA Training (20 Modules)

Metric	Value
Target	3,000
Registered	2,765
Female completion avg	1,834 (62% target / 67% registered)
Module range	20% – 71% completion
Highest module	Module 7 (2,140 = 71%)
Lowest module	Module 20 (613 = 20%)

Training Output Achievement (% of Target)

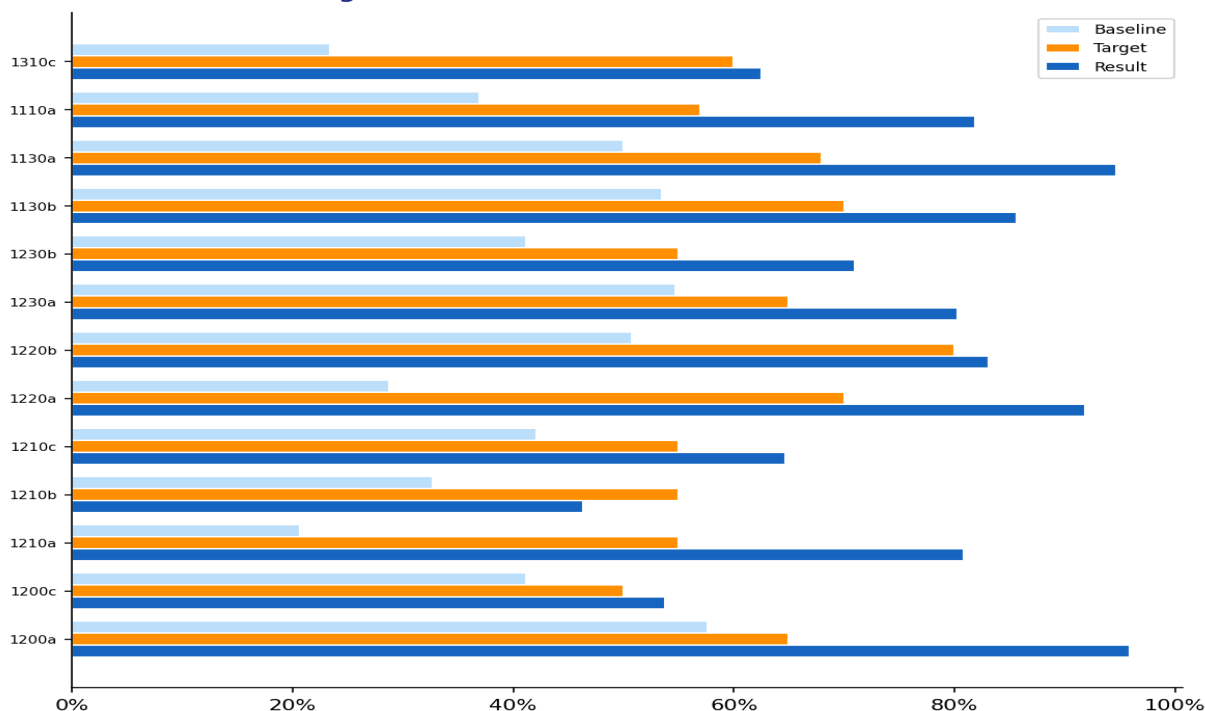


12. Logframe Indicators — Complete Summary

Overall: 12 of 13 quantitative indicators **EXCEEDED** targets. 1 indicator **ON TRACK**.

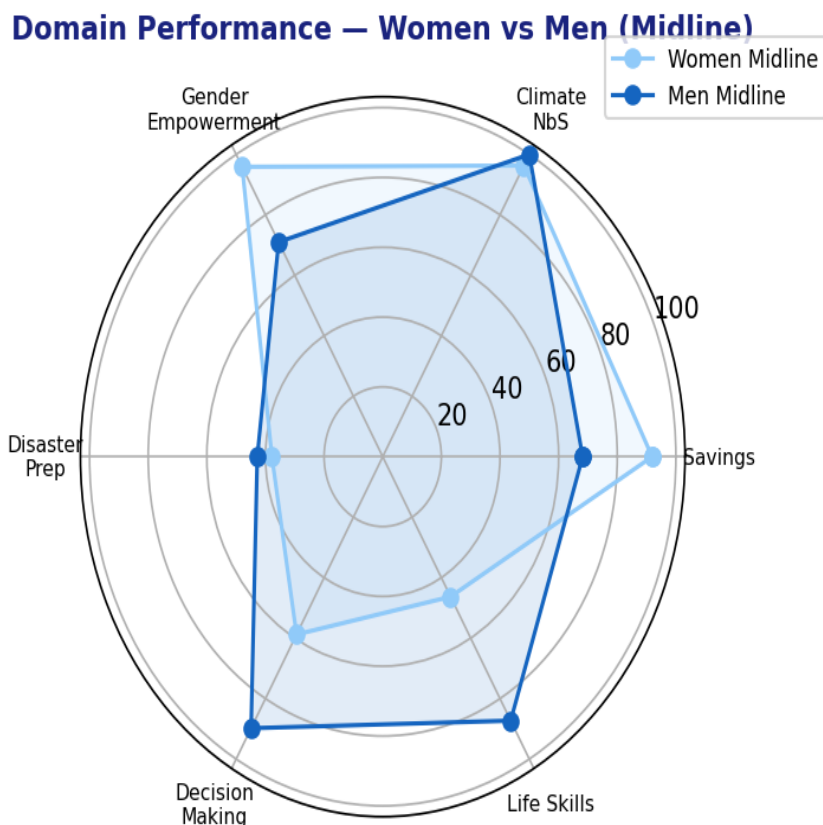
ID	Indicator	Baseline	Target	Result	Change	Status
1200a	Women HH/group decision involvement	57.6%	65.0%	95.9%	+38.3pp	EXCEEDED
1200b	Women unpaid work time	9.3 hrs	8.3 hrs	7.7 hrs	-1.6 hrs	EXCEEDED
1200c	Women access/control resources	41.2%	50.0%	53.8%	+12.6pp	EXCEEDED
1210a	Women NbS/Econ Rights knowledge	20.7%	55.0%	80.9%	+60.2pp	EXCEEDED
1210b	Women personal skills & confidence	32.7%	55.0%	46.3%	+13.6pp	ON TRACK
1210c	Women perceived equal (score)	42.1	55.0	64.7	+22.6 pts	EXCEEDED
1220a	Women actively saving in groups	28.8%	70.0%	91.9%	+63.1pp	EXCEEDED
1220b	Women access time-saving tech	50.8%	80.0%	83.1%	+32.3pp	EXCEEDED
1230a	Male NbS/economic rights knowledge	54.7%	65.0%	80.3%	+25.6pp	EXCEEDED
1230b	Women perceived equal by men	41.2	55.0	71.0	+29.8 pts	EXCEEDED
1130b	Functional CFC groups (≥70%)	53.5%	70.0%	85.7%	+32.2pp	EXCEEDED
1130a	Forest conservation knowledge	50.0%	68.0%	94.7%	+44.7pp	EXCEEDED
1110a	Mangrove restoration knowledge	36.9%	57.0%	81.9%	+45.0pp	EXCEEDED
1310c	Schools clean water access	23.4%	60.0%	62.5%	+39.1pp	EXCEEDED

Logframe Indicator Achievement — All Datasets



13. Cross-Dataset Synthesis

This section provides a comparative analysis across all survey instruments, identifying patterns, convergences, and areas requiring attention.



Domain	Women BL	Women ML	Men BL	Men ML	Convergence
Savings/VSLA	43.6%	98.0%	18.5%	42.7%	Women lead
Climate Awareness	60.5%	96.3%	77.8%	100%	Men converged
NbS Knowledge	23.1%	77.8%	42.4%	89.8%	Men ahead
Disaster Prep	4.7%	37.8%	6.2%	42.8%	Men slightly ahead
Joint Decisions	30.6%	48.8%	59.6%	89.8%	Strong convergence
Unpaid Care	9.3 hrs	7.7 hrs	2.3 hrs	4.2 hrs	Gap narrowing

Key Cross-Dataset Findings:

- **Financial Inclusion Transformation:** Women's VSLA participation (98%) far exceeds men's group saving (42.7%), indicating women lead household financial inclusion.
- **Climate Knowledge Convergence:** Men's climate awareness reached 100% (from 77.8%), while women reached 96.3% (from 60.5%), showing effective training for both genders.

- **Decision-Making Progress:** Joint decisions increased for both genders, with men reporting 89.8% support for joint large purchases — higher than women's self-reported 48.8%, suggesting attitudinal shift may precede behavioral change.
- **Care Work Redistribution:** Women's unpaid care dropped 1.6 hrs/day while men's increased by 1.9 hrs/day — a significant structural shift.
- **Social Norms Tension:** Women's survey shows concerning increases in some gendered norms (men as providers: 40.2%→75.4%), while men's survey shows decreases. This discrepancy warrants investigation.
- **NbS Participation:** Both genders show strong uptake in conservation activities, with forest management near universal participation (98.4% women, 95.8% men support).

14. Theory of Change & Impact Evidence

The programme's Theory of Change posits three intermediate outcomes validated through the midline data:

Outcome	Description	Evidence Strength
1100 — NbS Adoption	Community adoption of nature-based solutions through mangrove, seaweed, and forest conservation	Strong — 89.5% regenerative practices, 86.5% mangrove active
1200 — Women's Agency	Economic empowerment, decision-making, and resource access for women	Strong — 95.9% decision involvement, 91.9% saving actively
1300 — Governance	Institutional structures supporting gender-responsive NbS	Moderate — 85.7% functional groups, 62.5% schools WASH

14.1 Endline Projections (3 Scenarios)

Scenario	Assumption	Projection
Maintained	Current trajectory sustained	50% of midline gains maintained at endline
Accelerated	Intensified programming & engagement	80% achievement of all targets
Regression	Programme disruption / external shocks	20% loss from midline values

14.2 Methodology Notes

- Theory of Change framework used for cross-outcome validation
- Projection model based on baseline-midline trajectory analysis
- Data sources: Household surveys, group assessments, training records, school evaluations
- **Limitations:** Self-reported data, seasonal variation, attribution challenges
- **Tension detected:** Social norms data (Women Tab J) shows concerning increases in some gendered norms that require further investigation

15. Recommendations

1. Address Social Norms Paradox:

The increase in gendered norms among women (e.g., 'Man Provides Income' +35.2pp) despite programme interventions requires urgent investigation. Consider focus group discussions to understand if this reflects awareness of the norm vs. endorsement.

2. Accelerate Personal Skills & Confidence (Indicator 1210b):

The only ON TRACK indicator (46.3% vs 55% target) needs intensified life skills programming. Consider peer mentoring, success storytelling, and confidence-building workshops.

3. Strengthen Seaweed Value Chain:

Only 47.4% of groups are selling, 5.3% have formal agreements, and 90% report transport as a challenge. Prioritize market linkages, buyer agreements, and transport solutions.

4. Sustain Men's Engagement:

Men's transformation is remarkable (+82.6% care time increase, -36pp harmful norms). Institutionalize men's engagement through peer networks and community champions.

5. Scale VSLA Success:

98% participation and 79.1% loan access demonstrate transformative financial inclusion. Expand to remaining communities and link to formal financial services.

6. Address Training Attrition:

Module completion drops significantly (Mangrove M1:93% → M5:45%). Investigate reasons for dropout and implement retention strategies especially for later modules.

7. School WASH Sustainability:

Only 20% of schools have maintenance budgets. Develop school-community partnerships for infrastructure sustainability.

8. Disaster Preparedness Deepening:

While knowledge improved significantly (+33pp), only 26.9% directly participate in disaster planning. Move from awareness to actionable preparedness.

Appendix A: Sample Sizes & Methodology

Dataset	Sample Size	Type
Women COSME	345 women	Midline household survey
Men COSME	267 men	Midline household survey
GJJ Women KAP	312 women	Endline KAP survey
GJJ Men KAP	289 men	Endline KAP survey
Forestry Groups	28 groups (BL: 43)	Group functionality assessment
Pre/Post Forest	546 pre / 909 post	Knowledge test
Pre/Post Mangrove	By location/gender	Knowledge test
VSLA Monitoring	211 assessments / 173 groups	Group monitoring
Seaweed Assessment	19 groups / 610 women	Group assessment
Schools Dashboard	65 schools / 44,301 students	School assessment
4K Clubs	5,065 members (F:2,917 M:2,148)	Club monitoring

Data extracted from: *Women_Survey_Professional_Dashboard.html* & *Men_Survey_Professional_Dashboard.html*

Report generated: 28 February 2026, 17:04

Programme: Plan International Kenya — COSME & Gender Just & Justice Programme

Counties: Kilifi & Kwale, Coastal Kenya