

PROCESSES FOR KNOWLEDGE TRANSFER AND RELATED EFFICIENCIES: A CASE OF THE CocoaSoils PROGRAM

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CocoaSoils Objectives



CocoaSoils: Sustainable intensification of cocoa production through the development and dissemination of Integrated Soil Fertility Management options

Overall objective

A sustainable cocoa supply sector with increased productivity of cocoa farms (**30%**), efficient use of agricultural inputs and improved rural livelihoods (**90,000**) while avoiding deforestation

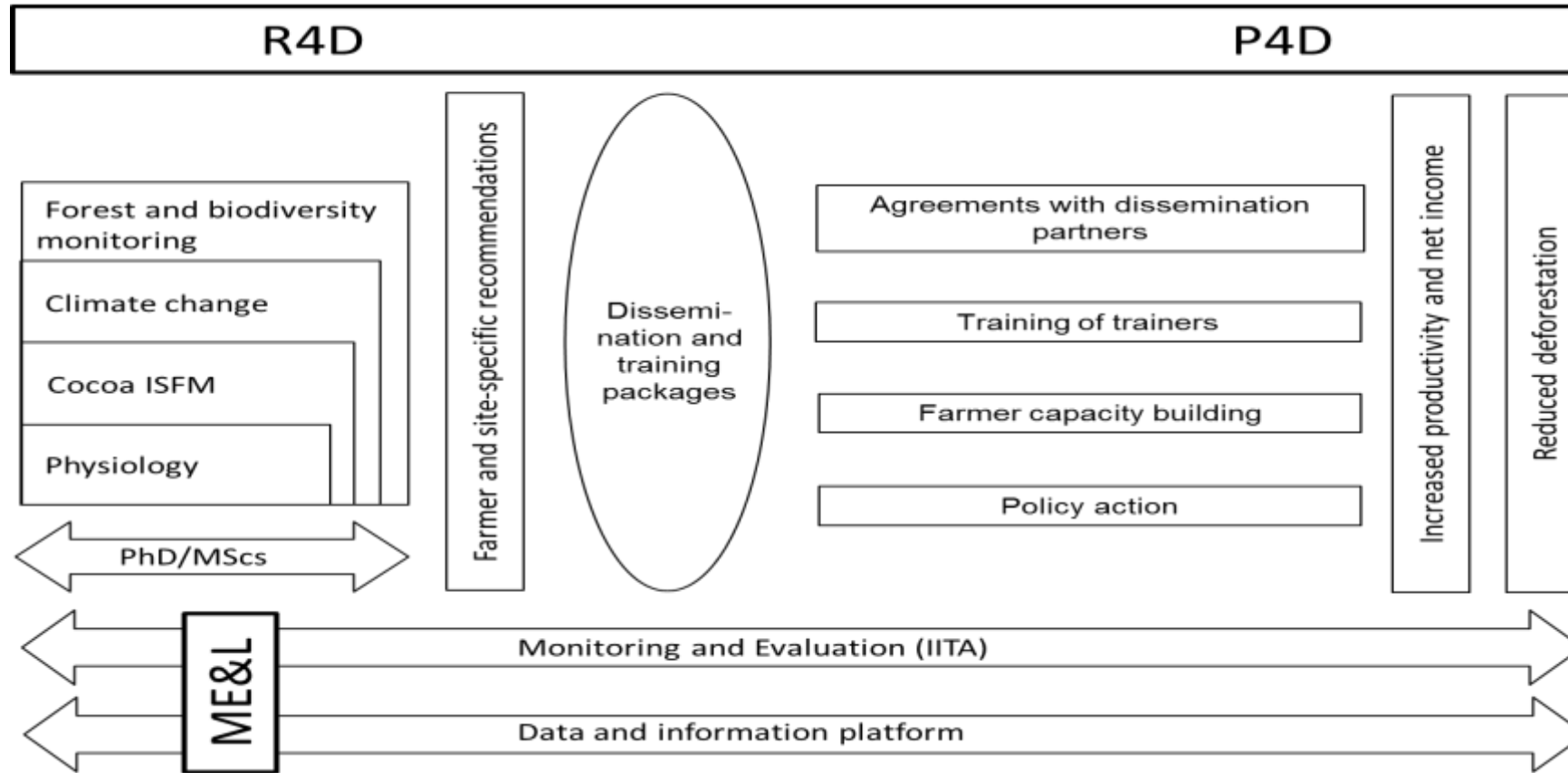
Target groups

1. Smallholder cocoa farmers will benefit through enhanced cocoa productivity, better income, and improved livelihoods
2. National research and extension agents will have necessary skills and state-of-the art knowledge and tools
3. Policymakers will be empowered to support the smallholder cocoa sector while protecting the environment
4. Society as a whole will reap the rewards of avoided deforestation

Program approach

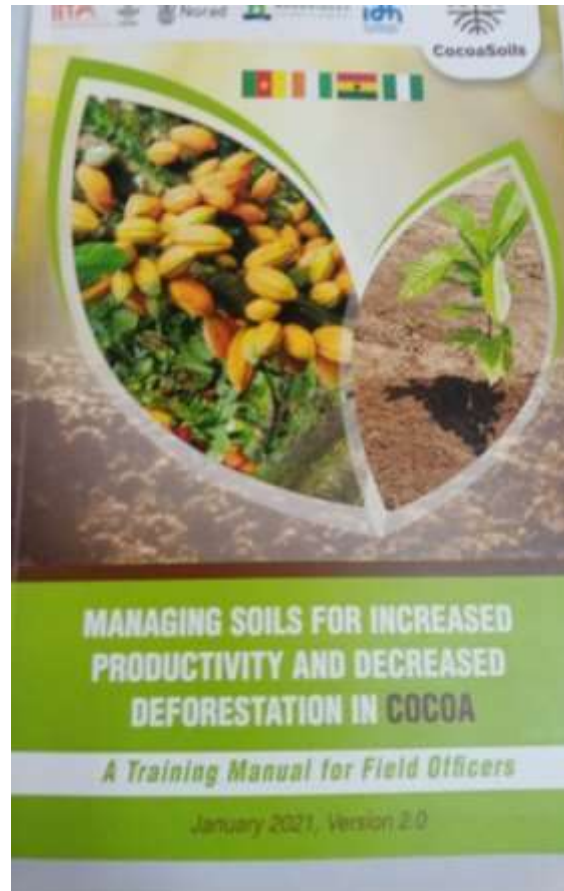
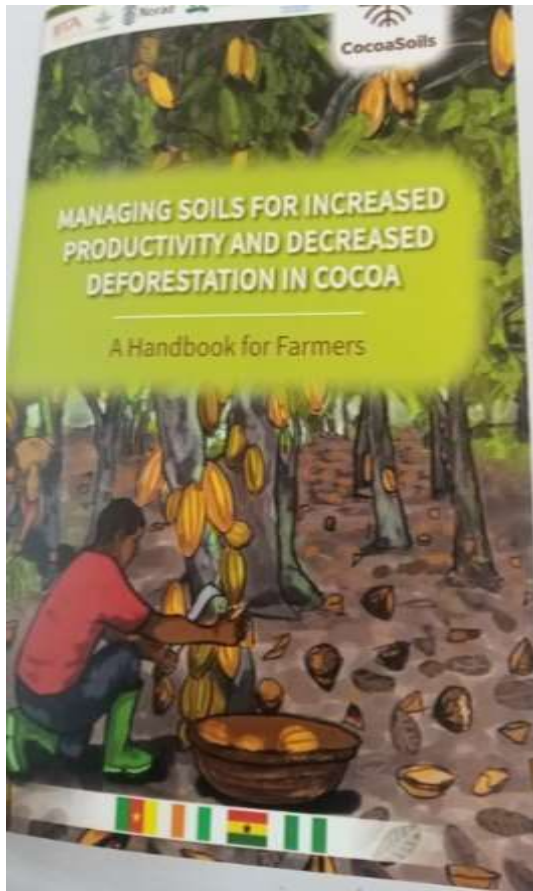


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Schematic overview of the R4D, P4D, and ME&L components of this initiative. The proposed R4D, P4D, and ME&L outputs and their interlinkages are presented

Manuals for partner extension-led scaling



Manual content

- Productivity and Deforestation
- GAP to increase productivity
- Pruning for Improved Soil Fertility and Efficient Use of Soil Nutrients
- Weeding for Improved Soil Fertility and Efficient Use of Soil Nutrients
- Pesticides Application (handling and applying)
- Planting Shade Trees to Improve Yields and Preserve Soils
- Soil Fertility Management (compost, organic fertilizer)
- Mineral fertilizer application

ISFM technology dissemination channels

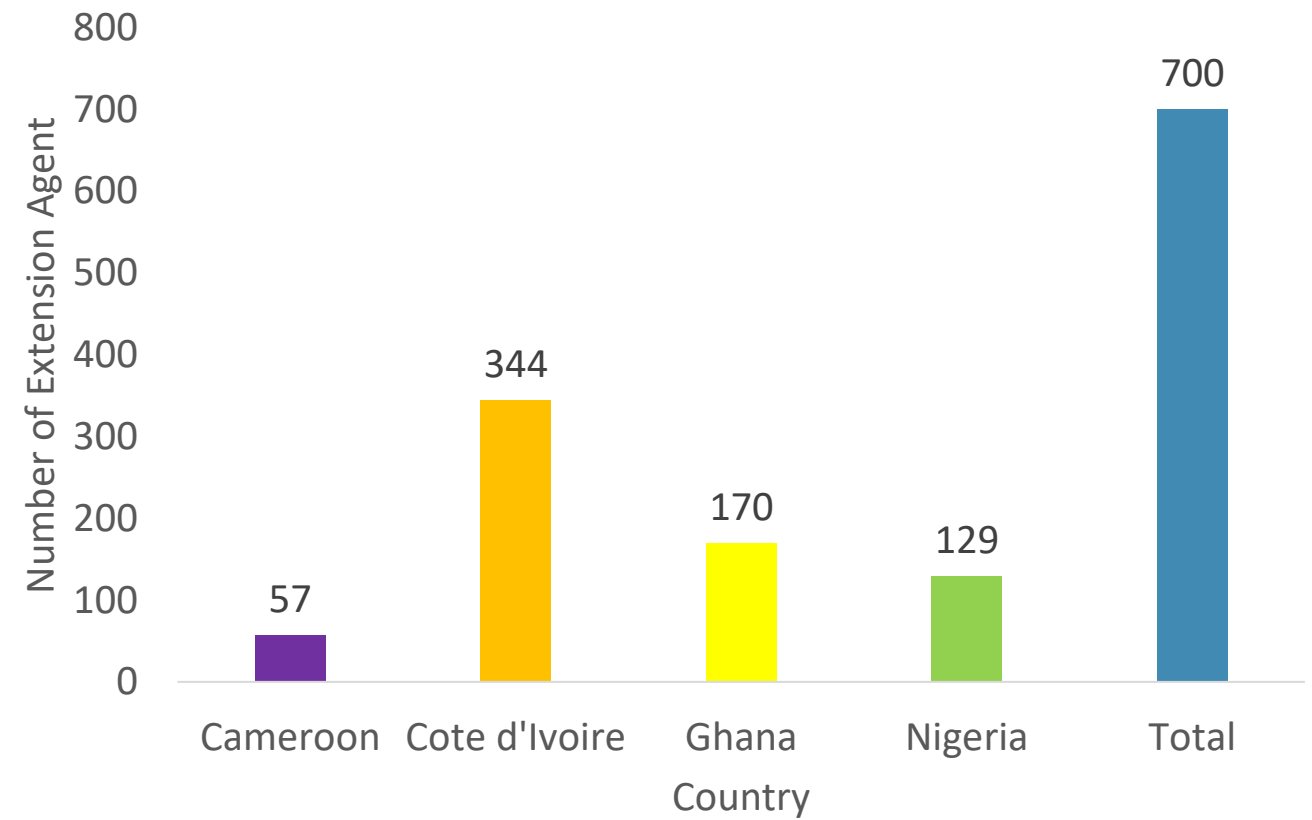
Extension Officer led



Digital Platform led

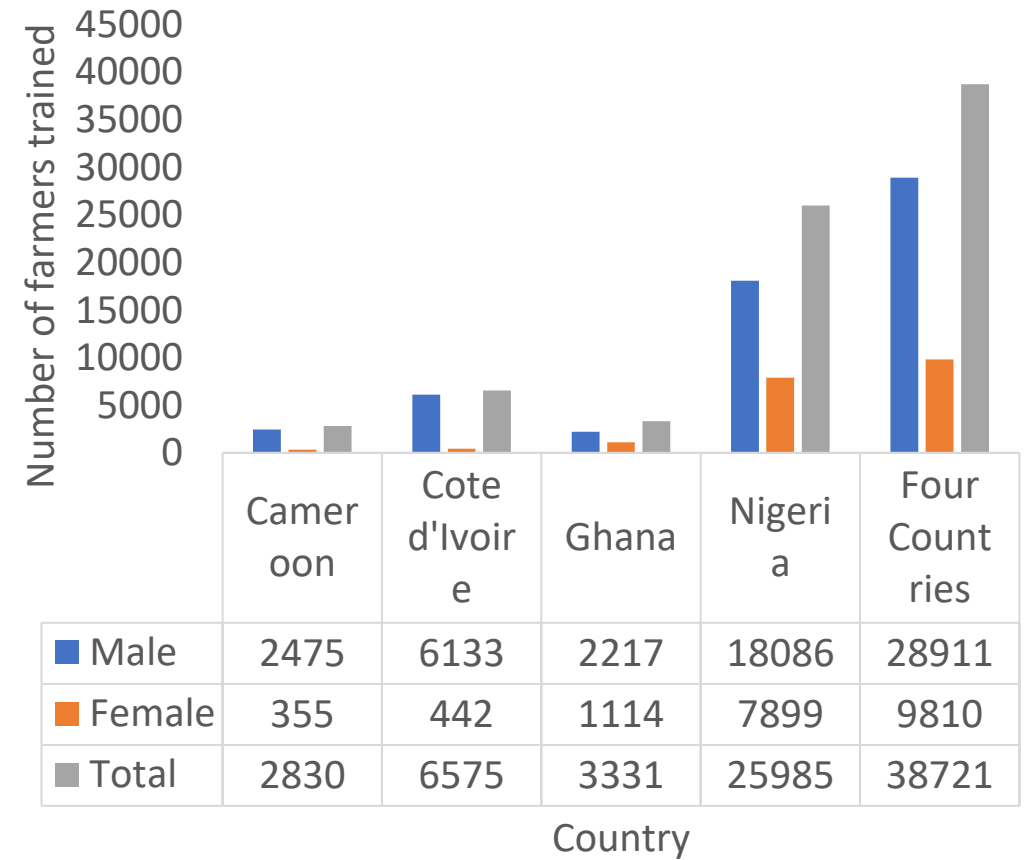
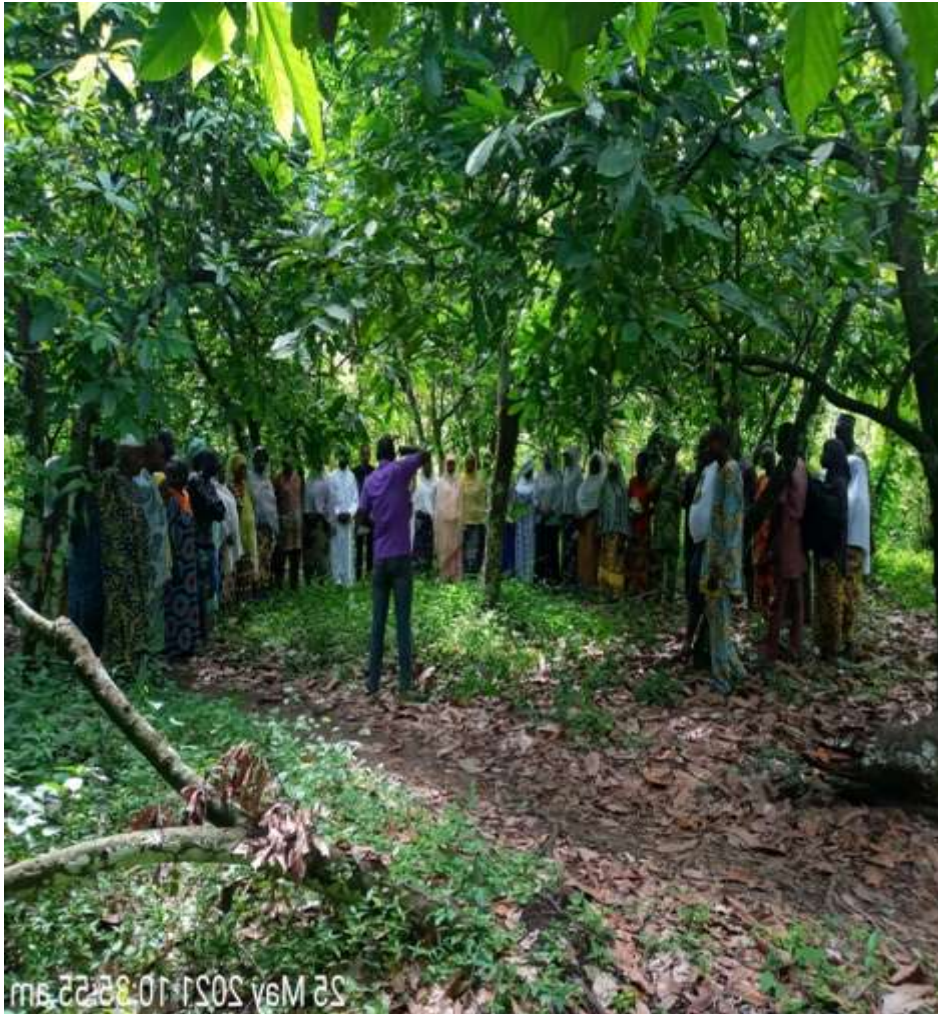


Extension Agent (EA) training



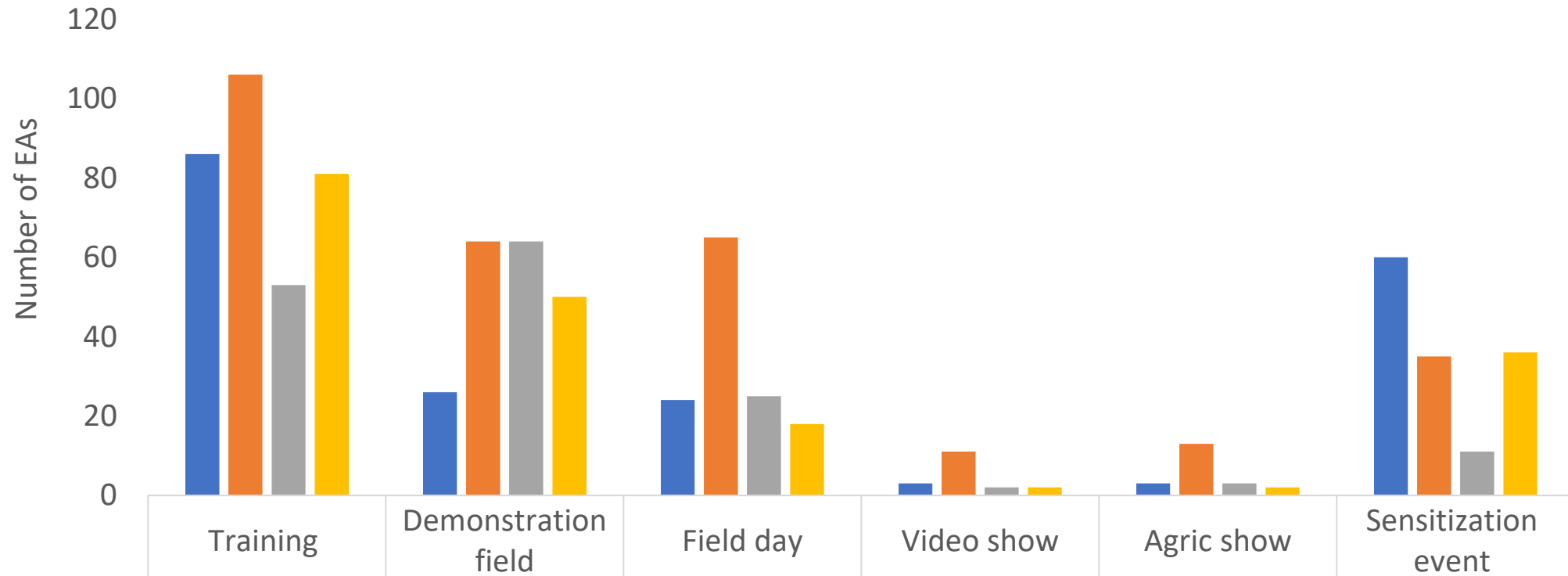
Number of Farmers trained

Extension Officer led



■ Male ■ Female ■ Total

Dissemination channels used by Extension Officers

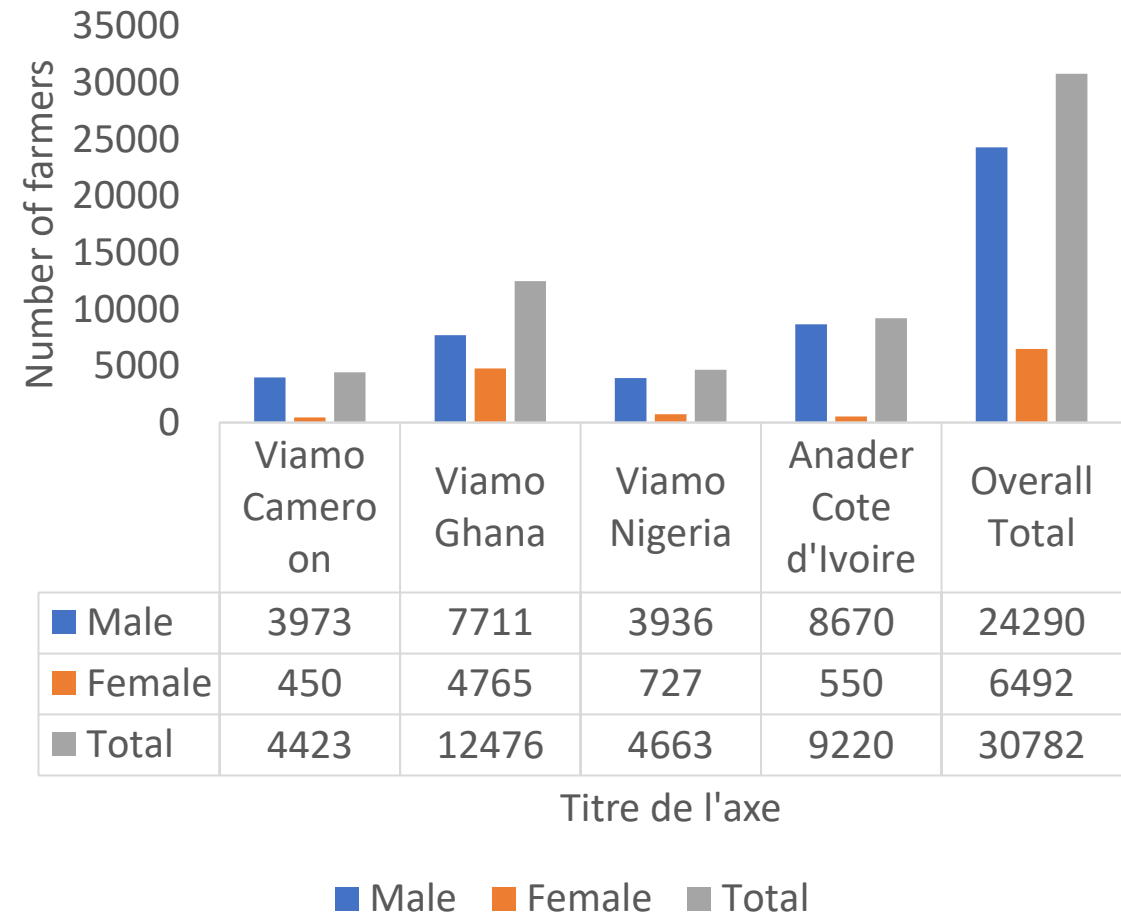


	Training	Demonstration field	Field day	Video show	Agric show	Sensitization event
■ Cameroon	86	26	24	3	3	60
■ Cote d'Ivoire	106	64	65	11	13	35
■ Ghana	53	64	25	2	3	11
■ Nigeria	81	50	18	2	2	36

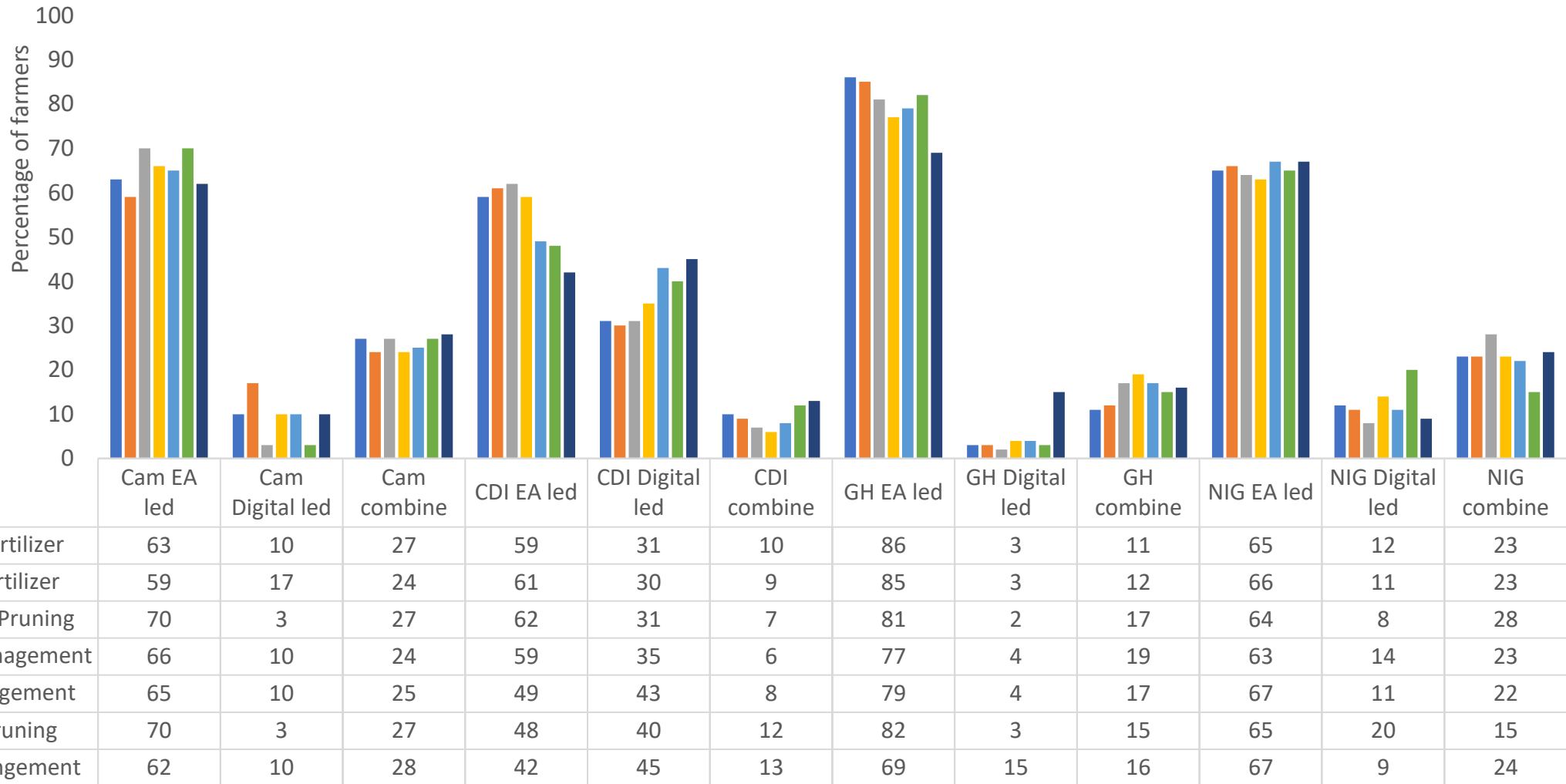
■ Cameroon ■ Cote d'Ivoire ■ Ghana ■ Nigeria

Number of Farmers trained

Digital Platform led



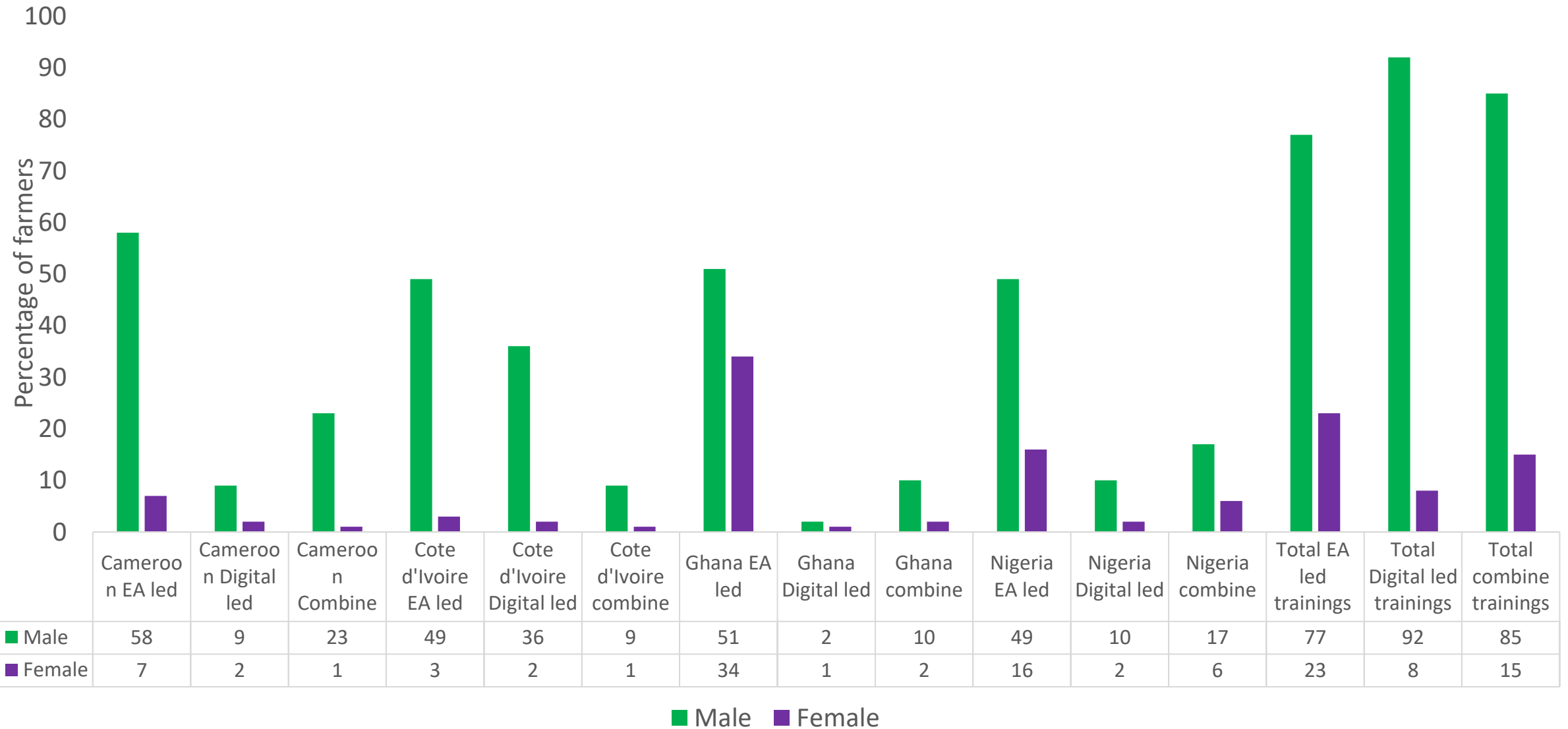
Dissemination channels used for ISFM practices



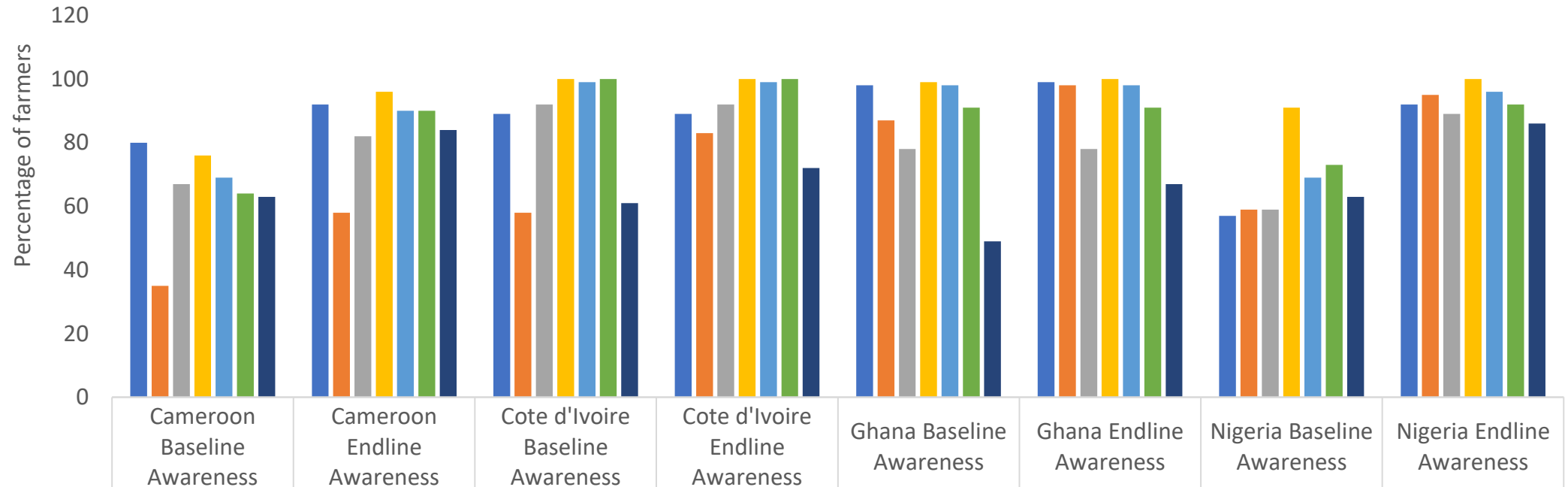
ISFM practices

■ Mineral Fertilizer
 ■ Organic fertilizer
 ■ Structural Pruning
 ■ Weed Management
 ■ Pest Management
 ■ Sanitary Pruning
 ■ Shade mangement

Gender breakdown of dissemination channels used



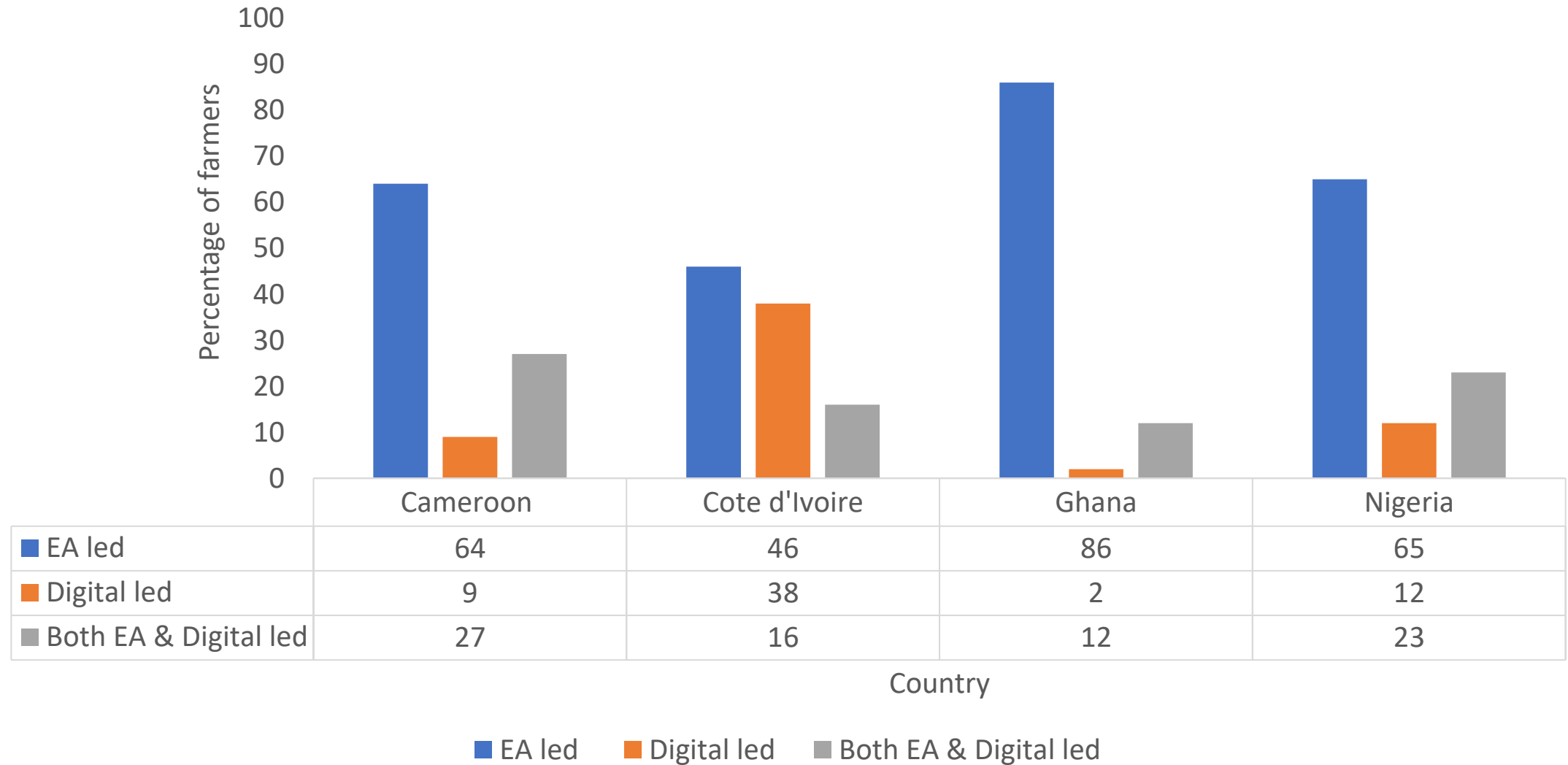
Change in farmer knowledge



	Cameroon Baseline Awareness	Cameroon Endline Awareness	Cote d'Ivoire Baseline Awareness	Cote d'Ivoire Endline Awareness	Ghana Baseline Awareness	Ghana Endline Awareness	Nigeria Baseline Awareness	Nigeria Endline Awareness
Mineral fertilizer	80	92	89	89	98	99	57	92
Organic fertilizer	35	58	58	83	87	98	59	95
Structural pruning	67	82	92	92	78	78	59	89
Weed management	76	96	100	100	99	100	91	100
Pest management	69	90	99	99	98	98	69	96
Sanitary pruning	64	90	100	100	91	91	73	92
Shade management	63	84	61	72	49	67	63	86

■ Mineral fertilizer
 ■ Organic fertilizer
 ■ Structural pruning
 ■ Weed management
 ■ Pest management
 ■ Sanitary pruning
 ■ Shade management

Dissemination channel contribution to uptake



Change in farmer practice



■ Mineral fertilizer
 ■ Organic fertilizer
 ■ Structural pruning
 ■ Weed management
 ■ Pest management
 ■ Sanitary pruning
 ■ Shade management

- EA led training helped to reach out to both male and female cocoa farmers, however a combination of EA and digital led channels of dissemination will help reach out to more farmers effectively
- There is increased knowledge in mineral fertilizer application, shade management, shade management, pest management among cocoa farmers in Cameroon, Cote d'Ivoire, Ghana and Nigeria respectively.
- EA led training contributes most to uptake in all countries however in Cote d'Ivoire, digital dissemination by ANADER is relatively significant in contributing to uptake
- There is an increased change in mineral fertilizer usage, practice of structural pruning, shade management, organic fertilizer application in Cameroon, Cote d'Ivoire, Ghana and Nigeria respectively
- Efficient ISFM practices dissemination via EA and digital led channels will contribute positively to increased productivity and an increase in income and welfare of cocoa farmers.

Partnership

Project Lead/Donor	    
National Research Institutes	   
Intl Research Centres	    
Private partners	             



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