



LEADING AGRICULTURAL
INNOVATION IN WEST
AND CENTRAL AFRICA



ORDINARY SESSION OF CORAF GENERAL ASSEMBLY (GA-14)



FSRP

West Africa Food System Resilience Program

Side-Event presentation

By Dr. Niéyidouba LAMIEN

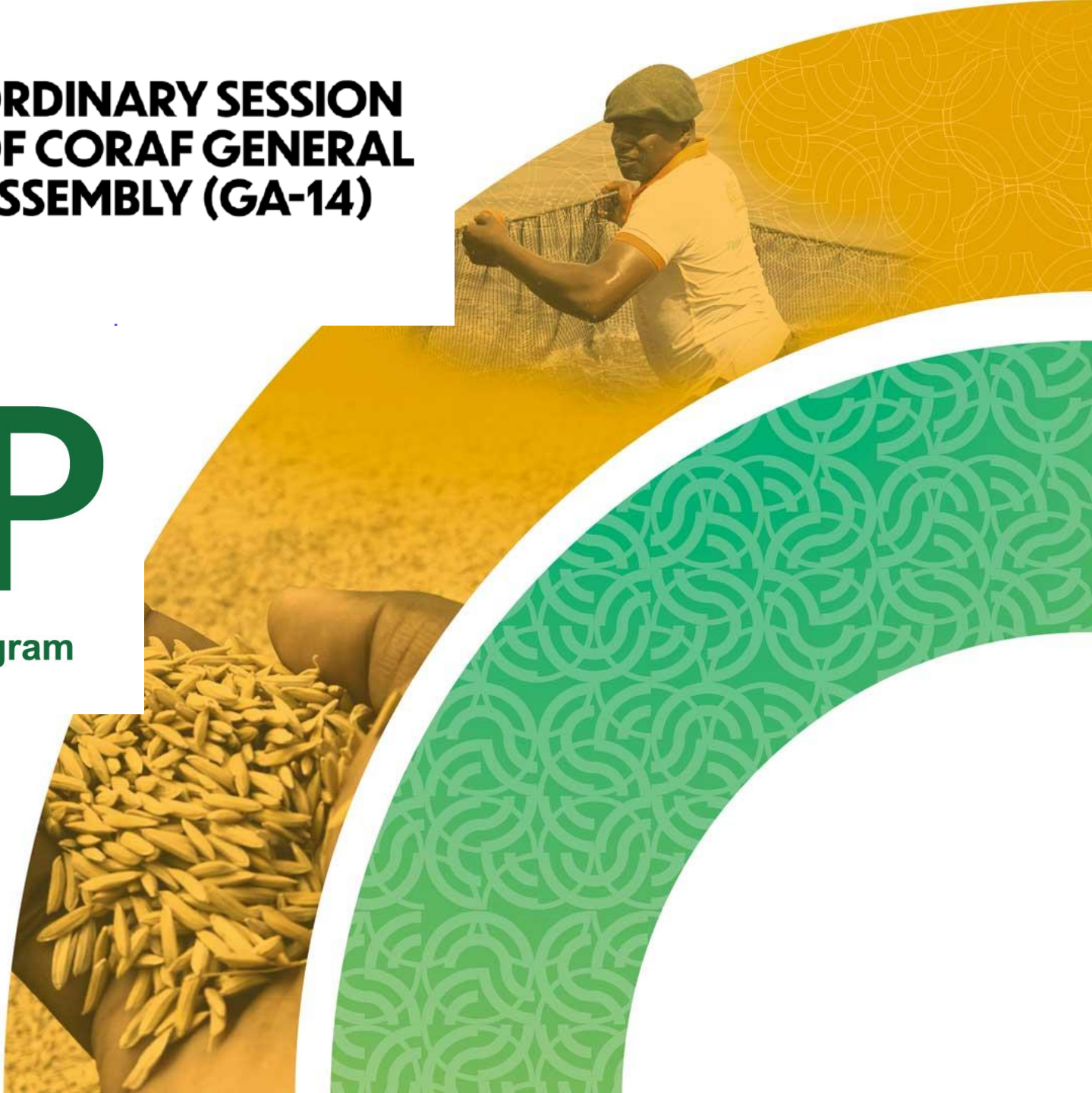
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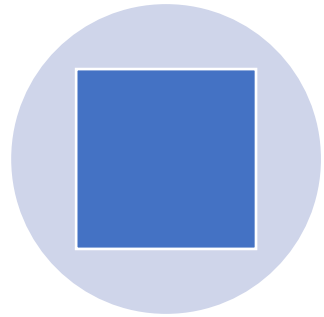
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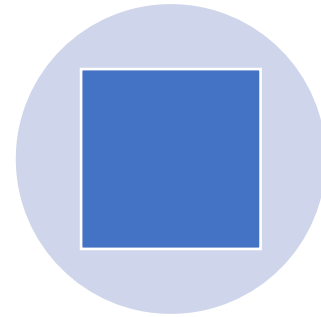
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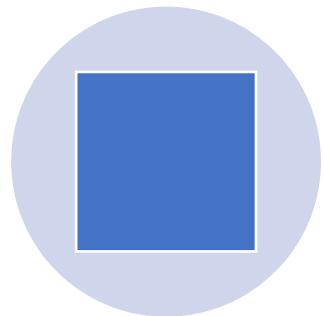
Presentation outlines



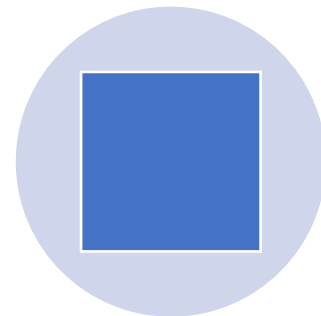
Design of FSRP



Component led by CORAF



**Key domains of activities
and achievements**



**Lessons learnt and
Challenges**

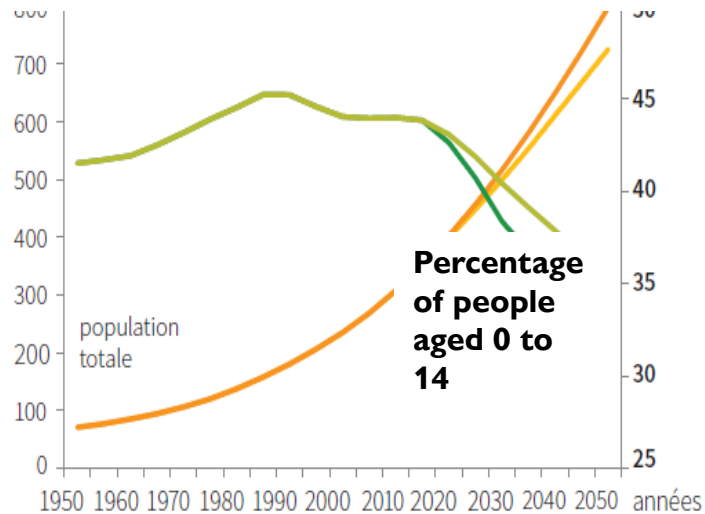


Context

West Africa is experiencing a crisis of health insecurities for the third consecutive year, caused by a set of factors that are unrelated

DEMAND SIDE PRESSURE

Population of West Africa, age group 0-14



The growth of urban development is an economic opportunity, but the pressure on production to provide sufficient food with natural resources is increasing.

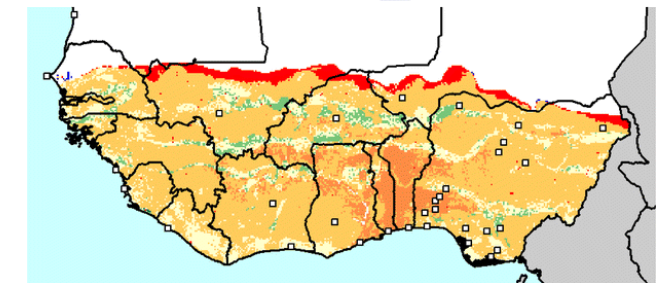
About 50 million people need food assistance (RPCA 2024)

Interactions with conflicts, COVID-19 and the implications of war in Ukraine

Fragility and conflict disrupt food production and livelihoods . Vice versa, the insecurity of food contributes to migration and competition for natural resources.

SUPPLY SIDE PRESSURE

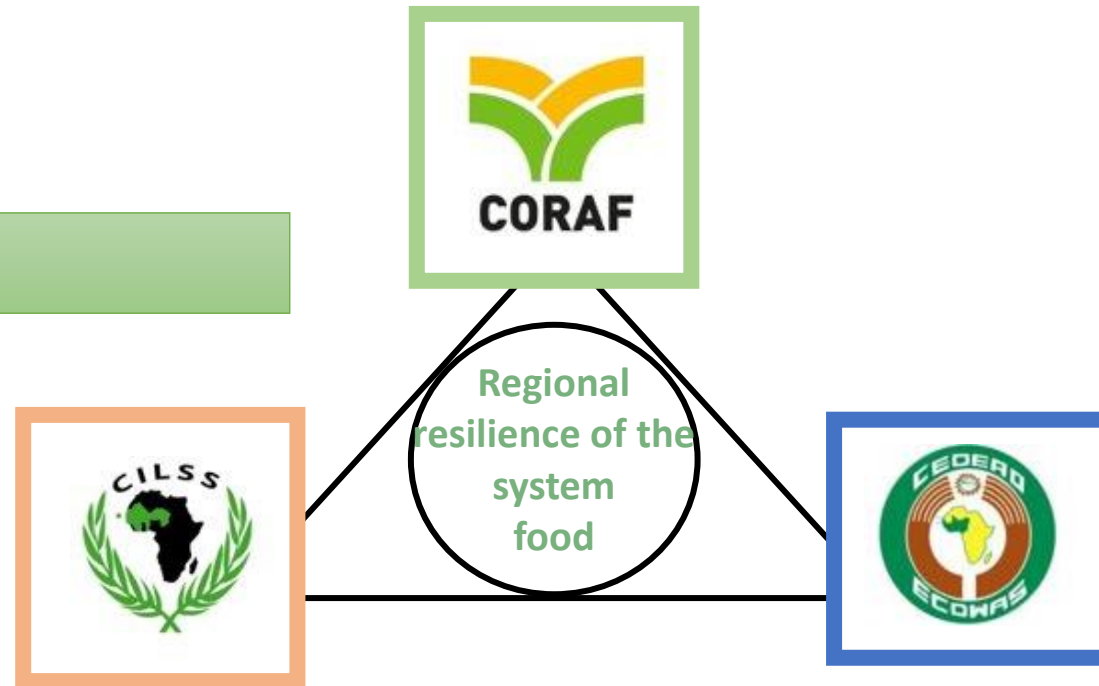
Changes in the yield of rainfed sorghum by 2050



Climate change is putting increasing pressure on food production and the unfavourable evolution of temperatures and precipitation .

Rational

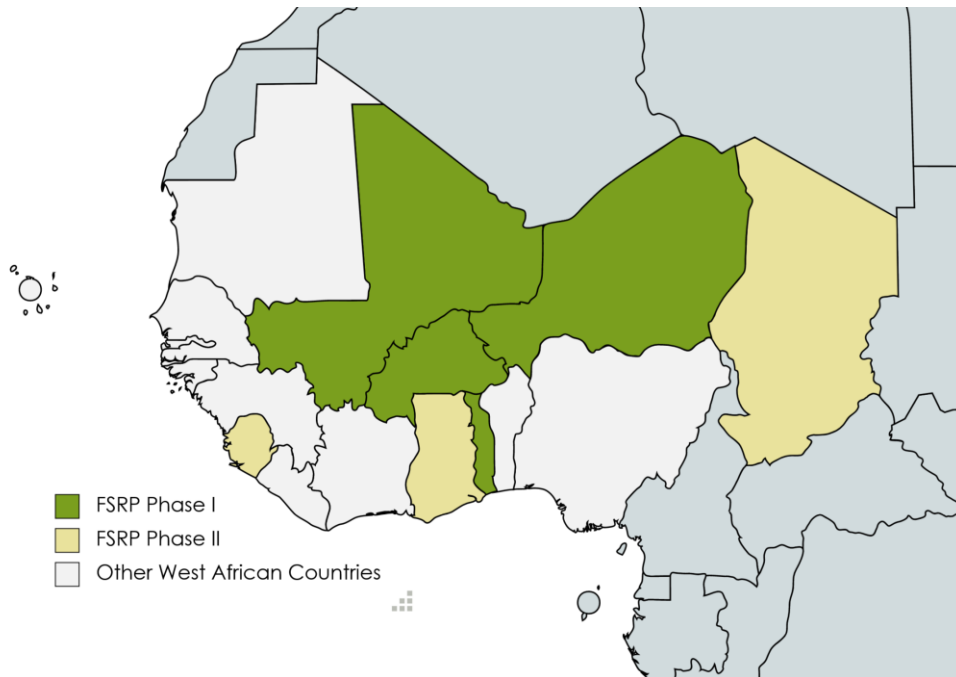
Regional programme



- The factors of health insecurity are transboundary nature and are best dealt with at regional level.
- The FSRP is associating regional institutions with the food system to strengthen regional initiatives , for example the Harmonised Framework, the regional research system, the regional food reserve.
- **Regional ownership** is thus strengthened, **economies of scale** are exploited and spillover effects are created.

Context

Country/regional institution phasing and MAP funding



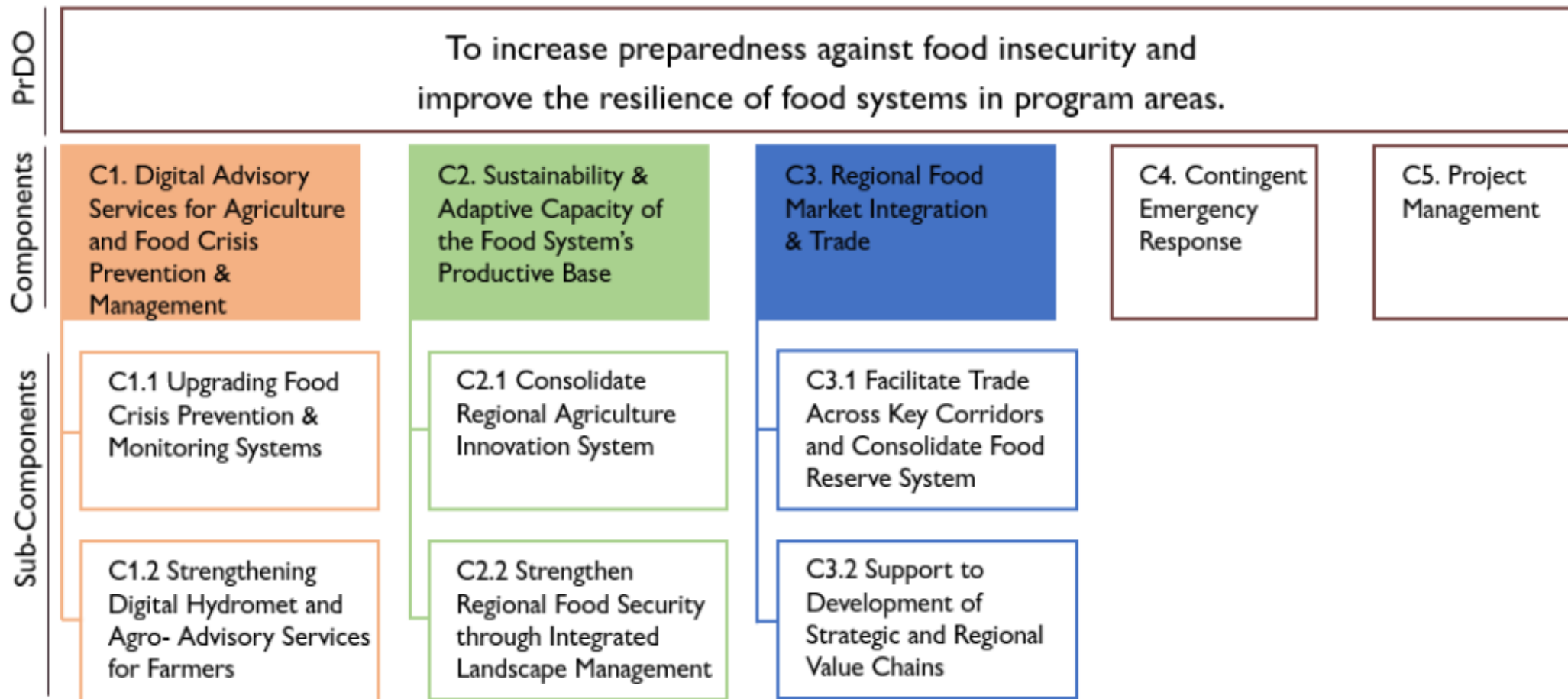
Funding wrappingMUSD	
- Phase II (approved18 Nov 2021):	401
➤ IDA	330
➤ Partners (NL, GAFSP, GRIF)	71
- Phase II (approved 29 Jul 2022)	315
- Phase III (approved 18 January 2024)	200
TOTAL	916

Phase I: Burkina Faso, Mali, Niger, Togo, ECOWAS, CILSS/AGRHYMET, CORAF,

Phase II: Chad, Ghana and Sierra Leone

Phase III: Senegal

West Africa Food System Resilience Program





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Sub-Component 2.1

**Consolidate
Agriculture
Innovation System**



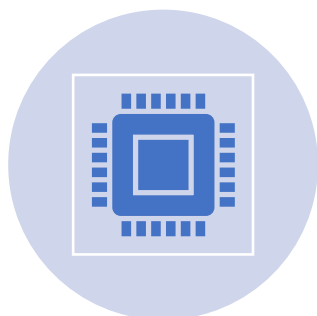
Key Activities Domains



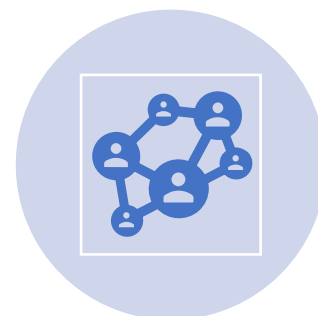
2.1.1 Strengthen the capacity of the regional agricultural research systems (NCoS – RCoS - RCoE)



2.1.2 Research and development by regional networking with research centres (NCoS – RCoS)



2.1.3 Modernize and improve extension systems, including through private sector models



2.1.4 Delivery of CSA, Nutrition and Gender sensitive, land and water management technology packages by the Coalition of NCoS-RCoE, CG centers and other IARIs





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Sub-Component 2.2

**Strengthen Regional Food
Security through
Integrated Landscape
Management**



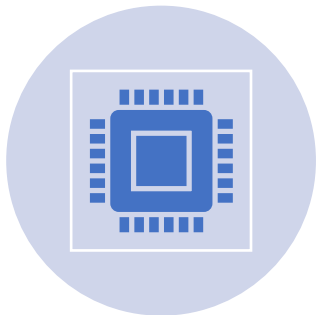
Key Activities Domains



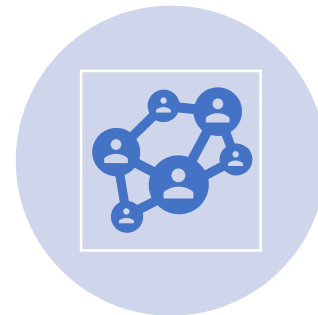
2.2.1 Coordinate annual technical exchanges at regional level



2.2.2 Conduct a benchmark study to identify best-practices to promote ILM across the region



2.2.3 Set a research network and virtual platform on integrated land management



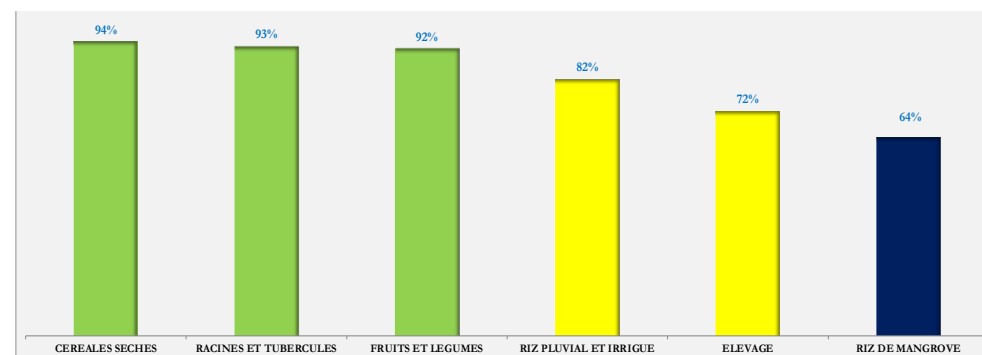
2.2.4 Build and maintain partnerships and exchanges with CGIAR centers



2.1.1 Strengthen the capacity of the regional agricultural research systems (NCoS – RCoS - RCoE

Activities	Actions expected from Countries
Assessment of NCoS upgrading into RCoE	Support implementation of action plans for upgrading NCoS into RCoE (research infrastructure, equipment, personnel, programmes, quality assurance, regional integration)-including countries without NCoS
Setting adequate RCoE governance mechanism	Take ownership of/adopt agreed adequate governance mechanism of the RCoE
Foster establishment of new NCoS on mechanization, Bio-risks management, Land and Water Management	Volunteer to host a new NCoS on mechanization, Bio-risks management or Land and Water Management and invest for its upgrading into RCoE
Human capacity building	Provide applicants

Achievements



Biorisks Management center set in Togo



- 10 (40% female) Phd
- 10 (50% female) immersion in centers of specialization

Over **111** Young scientists trained including 26 females on emerging topics (Biotechnology-Biostatistics, proposals and scientific writing)




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2.1.2 Research and development by regional networking with NCoS – RCoS (heart of regionality)

Activity	Actions expected from Countries	Achievements																																																																																																																																																																																											
Management of Competitive/Commissioned grant scheme (FONTAGRO model) to finance regional activities (heart of regionality)	Contribute to the regional funding mechanism	 LEADING AGRICULTURAL INNOVATION IN WEST AND CENTRAL AFRICA 																																																																																																																																																																																											
Joint (NARI, CG centers, other IARIs) regional research planning & Evaluation meetings	Attend regional research planning & evaluation meetings	<table border="1"> <thead> <tr> <th data-bbox="1133 632 1345 725">International agric. research institutions</th> <th data-bbox="1345 632 1490 725">Aquaculture</th> <th data-bbox="1490 632 1592 725">Banana Plantain</th> <th data-bbox="1592 632 1668 725">Wave</th> <th data-bbox="1668 632 1770 725">Dry cereals</th> <th data-bbox="1770 632 1872 725">Livestock & Milk</th> <th data-bbox="1872 632 2000 725">Fruits & vegetables</th> <th data-bbox="2000 632 2102 725">Maize</th> <th data-bbox="2102 632 2229 725">Root & tubers</th> <th data-bbox="2229 632 2382 725">Rice</th> <th data-bbox="2382 632 2514 725">Biosrisks</th> </tr> </thead> <tbody> <tr><td>IITA</td><td></td><td>x</td><td></td><td></td><td></td><td></td><td>x</td><td>x</td><td></td><td></td></tr> <tr><td>ICRISAT</td><td></td><td></td><td></td><td>x</td><td>x</td><td></td><td></td><td></td><td></td><td>x</td></tr> <tr><td>AfricaRice/IRRI</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>x</td><td>x</td></tr> <tr><td>CIAT</td><td>x</td><td>x</td><td></td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td></tr> <tr><td>IWMI</td><td>x</td><td></td><td></td><td>x</td><td></td><td>x</td><td></td><td></td><td>x</td><td></td></tr> <tr><td>ILRI</td><td></td><td></td><td></td><td>x</td><td>x</td><td></td><td>x</td><td></td><td></td><td>x</td></tr> <tr><td>WorldVeg. Center</td><td></td><td></td><td></td><td></td><td></td><td>x</td><td></td><td></td><td></td><td>x</td></tr> <tr><td>IFDC</td><td></td><td>x</td><td></td><td>x</td><td></td><td>x</td><td>x</td><td>x</td><td>x</td><td></td></tr> <tr><td>ICRAF/CIFOR</td><td></td><td>x</td><td></td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td></td><td></td></tr> <tr><td>icipe</td><td>x</td><td>x</td><td></td><td>x</td><td></td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td></tr> <tr><td>FtF Innov.Labs-US</td><td>x</td><td>x</td><td></td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td></tr> <tr><td>CIRAD</td><td></td><td>x</td><td></td><td>x</td><td>x</td><td>x</td><td>x</td><td></td><td></td><td>x</td></tr> <tr><td>MASHAV- Israel</td><td>x</td><td></td><td></td><td></td><td>x</td><td>x</td><td></td><td></td><td></td><td>x</td></tr> <tr><td>HAAFS-Chine</td><td>x</td><td></td><td></td><td></td><td>x</td><td>x</td><td>x</td><td></td><td>x</td><td></td></tr> <tr><td>Embrapa-Brazil</td><td>x</td><td>x</td><td></td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td></tr> <tr><td>Other (INSAH, FAO, AGRA, WASCAL, etc.)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	International agric. research institutions	Aquaculture	Banana Plantain	Wave	Dry cereals	Livestock & Milk	Fruits & vegetables	Maize	Root & tubers	Rice	Biosrisks	IITA		x					x	x			ICRISAT				x	x					x	AfricaRice/IRRI									x	x	CIAT	x	x		x	x	x	x	x	x	x	IWMI	x			x		x			x		ILRI				x	x		x			x	WorldVeg. Center						x				x	IFDC		x		x		x	x	x	x		ICRAF/CIFOR		x		x	x	x	x	x			icipe	x	x		x		x	x	x	x	x	FtF Innov.Labs-US	x	x		x	x	x	x	x	x	x	CIRAD		x		x	x	x	x			x	MASHAV- Israel	x				x	x				x	HAAFS-Chine	x				x	x	x		x		Embrapa-Brazil	x	x		x	x	x	x	x	x	x	Other (INSAH, FAO, AGRA, WASCAL, etc.)										
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Joint (NARI, CG centers, other IARIs) regional research proposal development and implementation	Participated regional research proposal development and implementation																																																																																																																																																																																												
Gender-sensitive Agriculture Innovation Award	Compete for the award	Funding of 7 proposals submitted by consortia of institutions under the leadership of centers of specialization																																																																																																																																																																																											




2.1.3 Modernize and improve extension systems, including through private sector models

Activity	Actions expected from Countries	Achievements
<p>IAR4D (Link to IRA Juice IP video):</p> <ul style="list-style-type: none"> i. Support countries in IP on regional priority value chains (component3) ii. Support development of curricula for training of IP experts 	<p>IAR4D:</p> <ul style="list-style-type: none"> i. Set and animate IPs on regional priority value chains ii. Support the training of IP experts 	<ul style="list-style-type: none"> ➤ Countries supported in setting and running IP on priority value chains ➤ Curricula developed and validated for the training of professional facilitators of IP
<p>Conduct studies to identify:</p> <ul style="list-style-type: none"> i. key e-extension tools/approaches that countries can adopt ii. key digital agricultural tools/approaches that countries can adopt 	<p>Adopt and scale the promising e-extension and digital agricultural tools/approaches</p>	



2.1.4 Delivery of CSA, Nutrition and Gender sensitive, land and water management technology packages by the Coalition of NCoS-RCoE, CG centers and other IARIs

Activity	Actions expected from Countries	Achievements	
<p>MITA:</p> <ul style="list-style-type: none"> i. Organize physical MITA for the Coalition of NCoS-RCoE, CG centers and other IARIs to share T&I with countries ii. Consolidate MITA virtual platform 	<p>MITA:</p> <ul style="list-style-type: none"> i. Mass production of technologies through private sector ii. Facilitate access of small farmers women and youth to technologies iii. NCoS-RCoE, NARI to share/upload newly released technologies 		<p>Over 250 T&I showcased to about 300 participants (30% of women, 27% of youth)</p> <p>17 countries attended</p> <p>105 institutions and companies represented</p> <p>70 T&I requested by end-users.</p>





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2.1.4 Delivery of CSA, Nutrition and Gender sensitive, land and water management technology packages by the Coalition of NCoS-RCoE, CG centers and other IARIs (\$US 1.017 million)

Activity

Establishment of parks for showcasing proven technologies

Actions expected from Countries

Establishment of community level parks of technologies

Achievements

10 technology parks set in Benin, Burkina Faso, Chad, Ghana, Mali, Niger, Senegal, Sierra Leone and Togo



Lessons learnt challenges

- ❑ Coalition with CG centers and other International Research Institutions
 - Participate to event (MITA, Regional activities planning, dialogue with end-users, etc.)
 - Participate to joint research proposals development
 - **CG center claim substantial budget to be engaged in joint activities (Minimum of \$US300,000)**

- ❑ Uptake of T&I showed through MITA and Park of technologies
 - Although, only ready-to-go T&I are showcased, end-users order small quantities for testing
 - **Consequence, no research institutions or no private sector are interested in producing small quantities**

Mass adoption of T&I

Newborn Agric. Private sector
is claiming exclusive use of T&I
to make profit

Possible tradeoff:

- Temporary private sector licence agreement for exclusive exploitation of T&I for mass production of affordable T&I
- Matching grant mechanism

End-Users is asking for
easy access to T&I at
affordable costs

Public research generating T&I
for public use produce only
prototypes, breeders seeds
with intellectual property for
industrial exploitation by the
private sector





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Programme de Résilience du Système Alimentaire (PRSA/FSRP)

**Avez-vous un sujet de préoccupation ou une plainte ?
Contactez-nous dès maintenant.**



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