



# Integrated Agricultural Research for Development IAR4D—Innovation Systems

## **Innovation Platform (IP) processes along value chains**

Agricultural Innovation Systems (AIS)  
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- agricultural research working and learning together (social / institutional learning) with **“end-users”** and other **actors** in a **value chain**
- with other **people and organisations** (stakeholders) around the value chain whose contribution is needed to make the innovation a success
- ideally it is **driven by end-user interests** and originates from a joint initiative or common objective

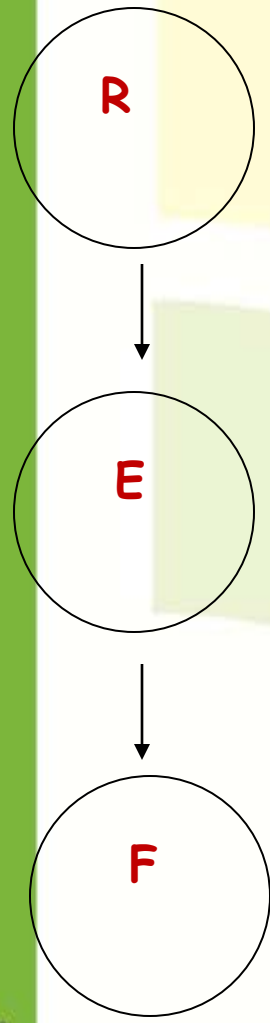




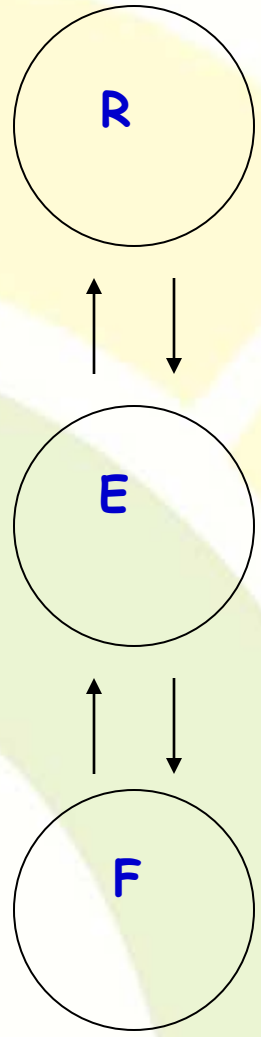
# Technology Transfer

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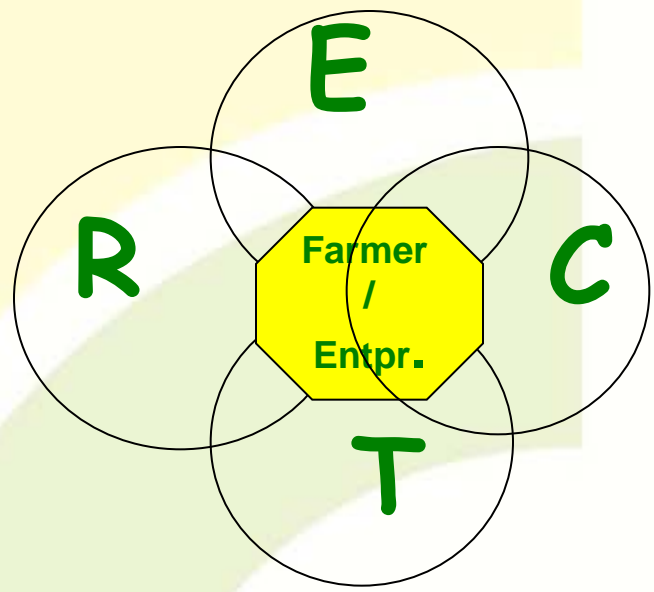
# Multi-stakeholder Participatory Processes



Top-down



Feedback



Systemic Facilitation → Relationships through Interactions & Learning

Value chain

Product & Process Innovations of economic, social, environmental benefits

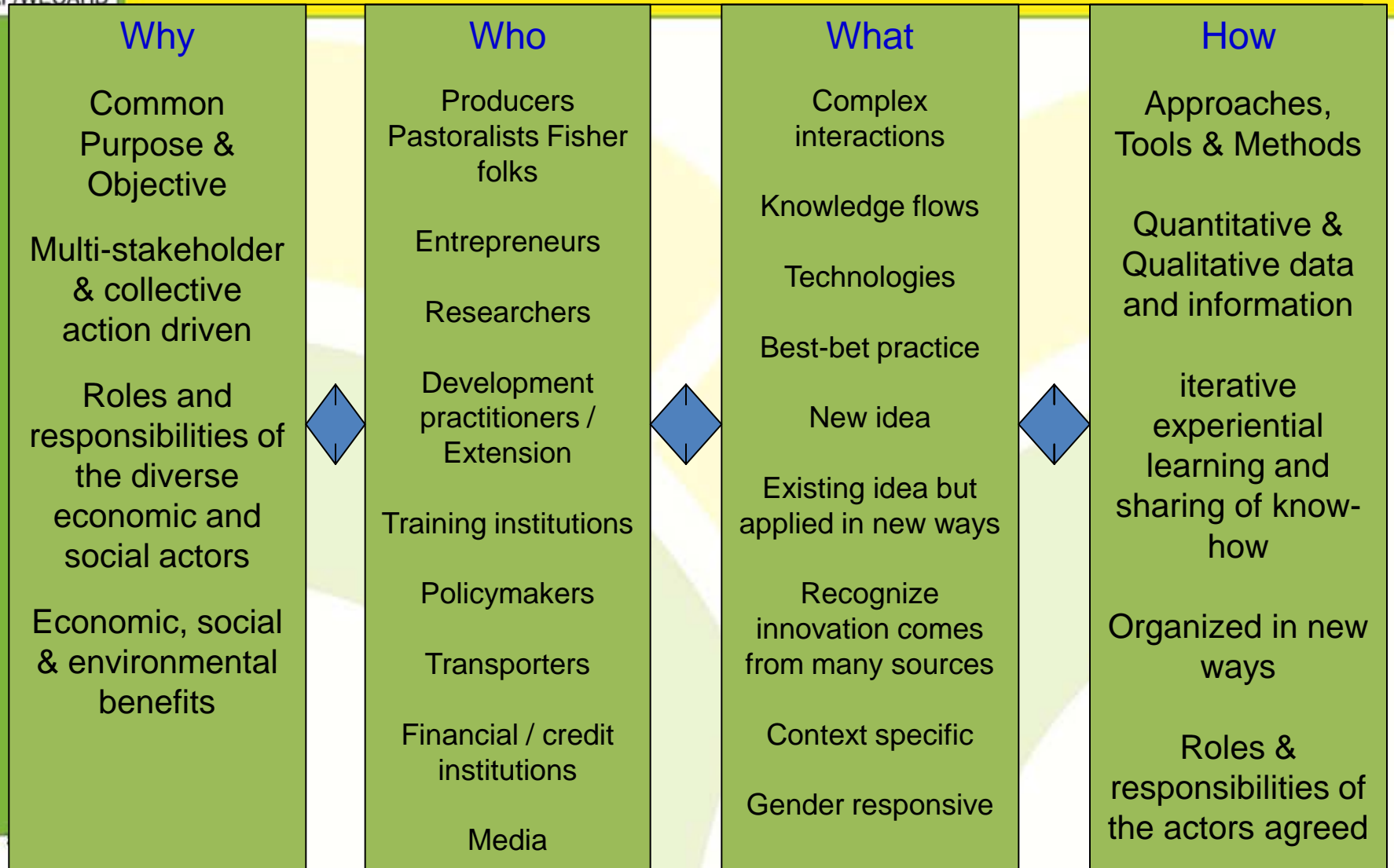


# IAR4D—Innovation Systems from Principles/Concepts to Practice:

## Examples of Innovation Platform (IPs) Framework & Models in the CORAF region



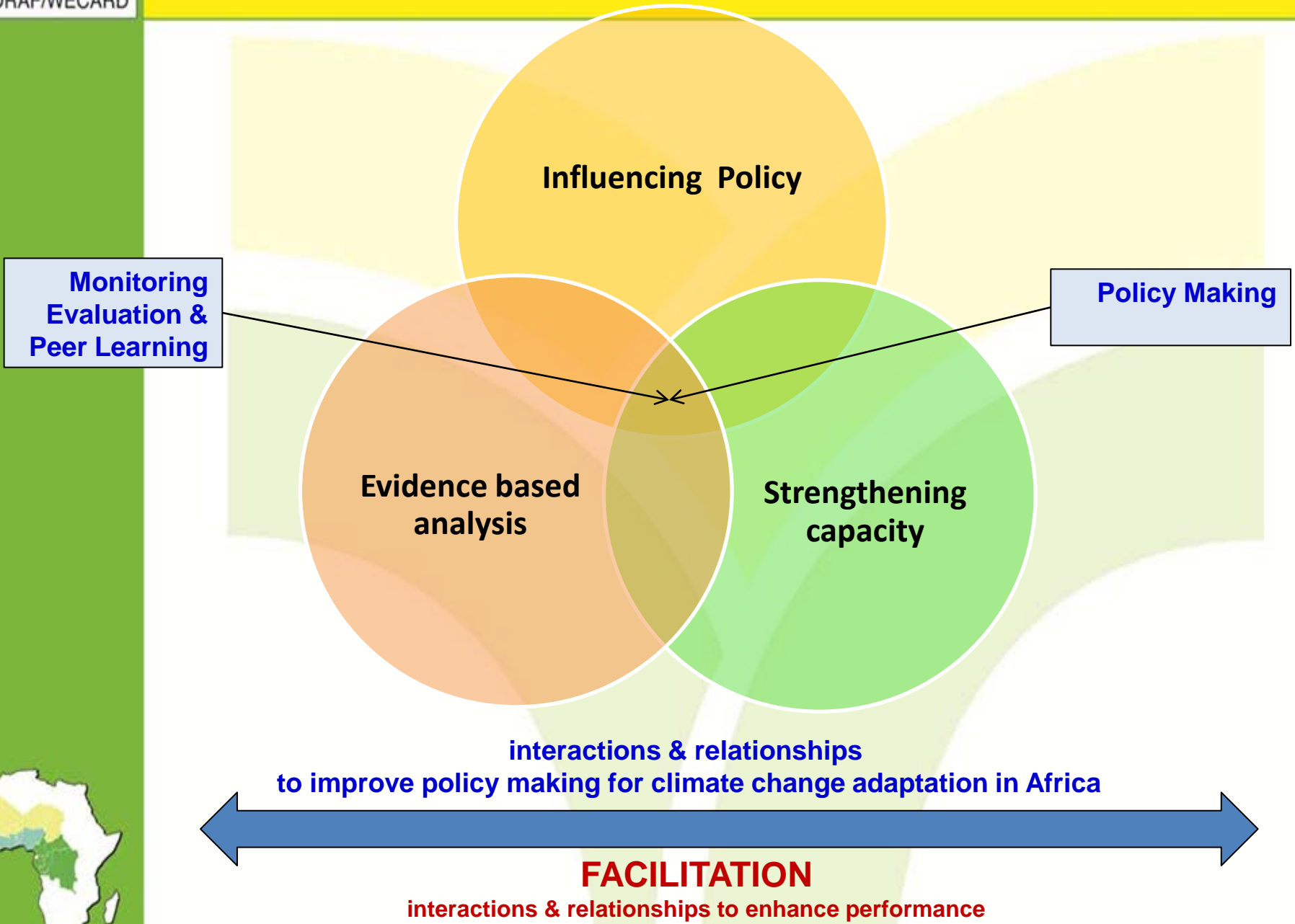
# Framework for Multi-stakeholder Innovation Platform Processes



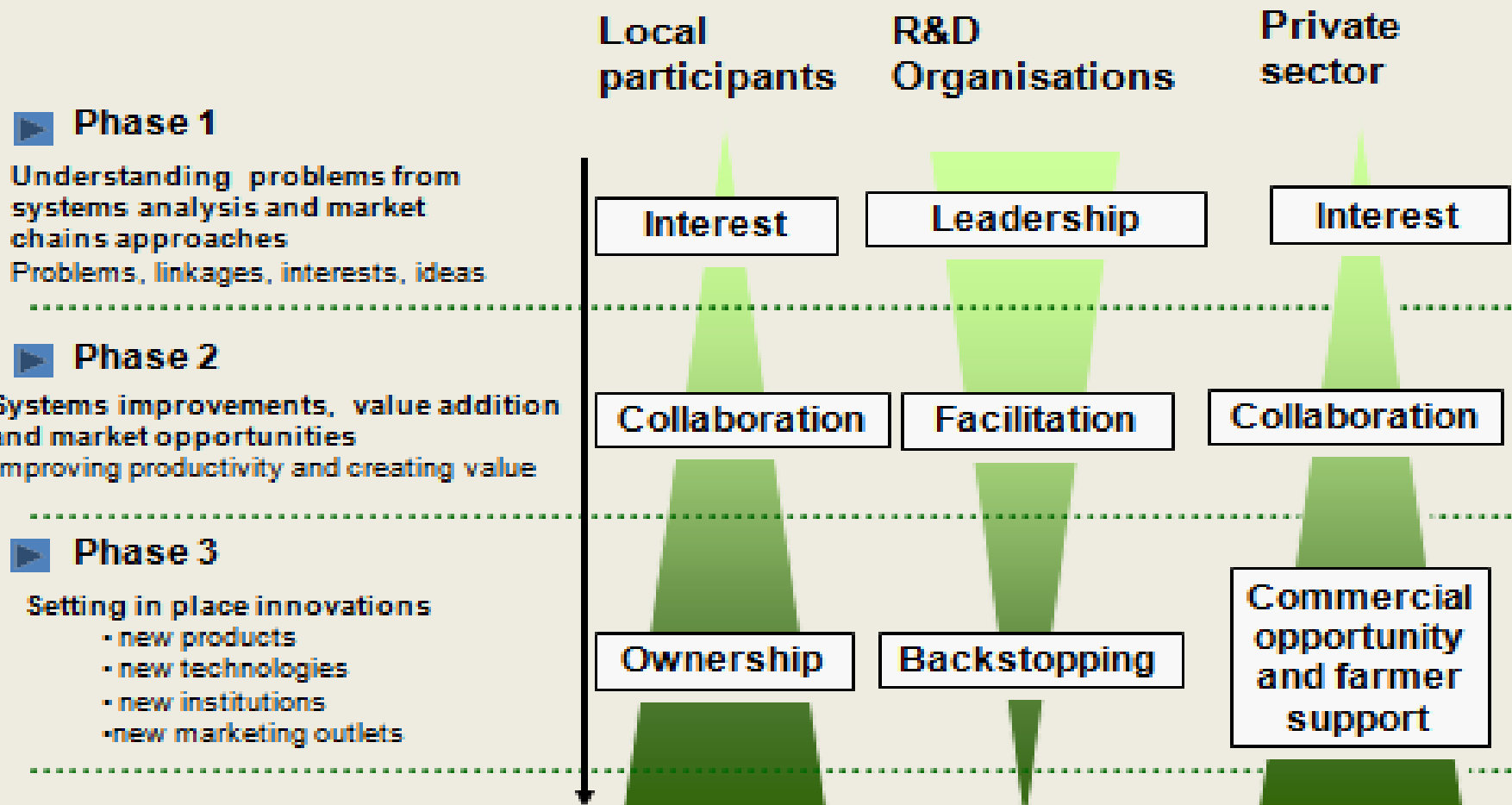
## FACILITATION

interactions & relationships to enhance performance

## Model



## Phased IP Process Approach



# SSA CP Project at the KKM PLS in Nigeria: Innovation Platform (IP)

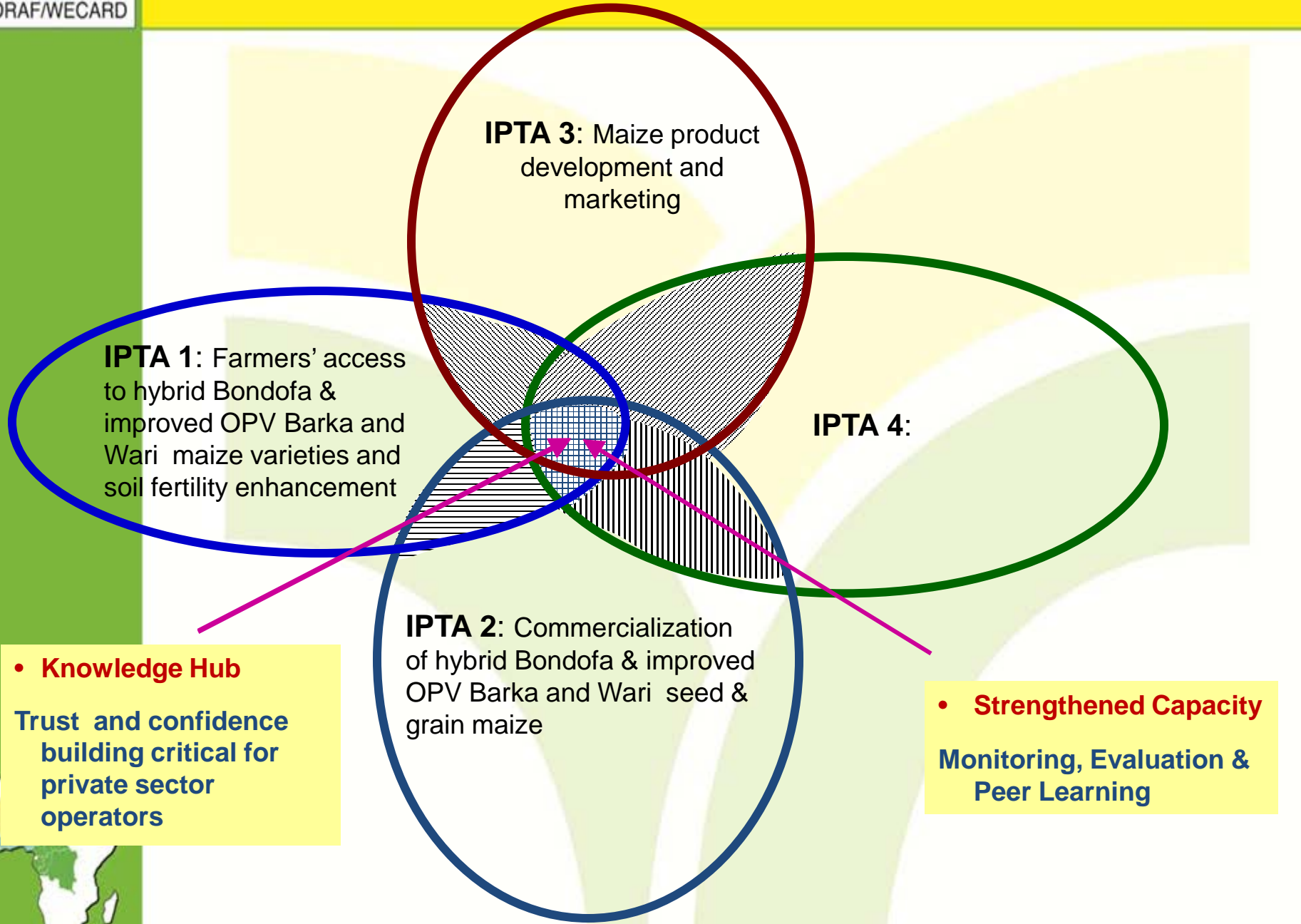
Value chain	Sahel Taskforce	NGS Taskforce	Sudan Savannah Taskforces	Total
Livestock-feed Ram fattening trials dual purpose pearl millet trials	1	1	0	2
Cereal/legumes livestock Fertilizer trial, soil & water conservation, striga control, double cropping, etc	1	1	4	6
Groundnut rosette disease (GRD) control Source of P fertilizer for groundnut Seed multiplication system	1	0	0	1
Fadama rice Variety, weed management, planting date, fertilizer, contour & ridging	0	1	0	1
Fadama vegetable Tomato trials, Green Pepper, Nematode Control	1	1	0	2
<b>Total</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>12</b>

**FARA: 0.9 – 2.0 ton/ha soybean representing 120% increase  
additional \$500 per ha  
over 150,000 people reached in the KKM PLS in Nigeria**

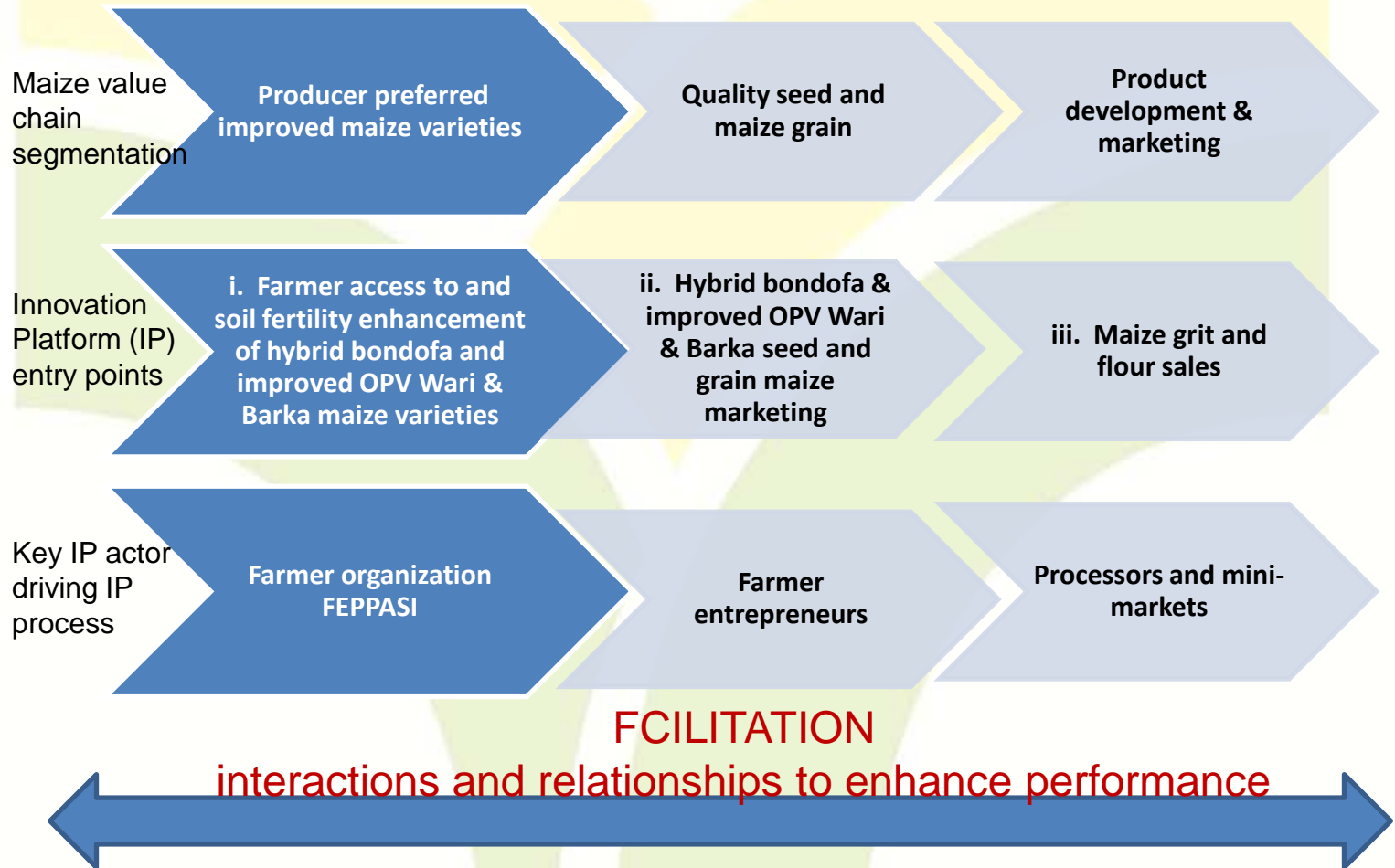




# DONATA Project: Innovation Platform (IPTA) along maize value chain in Burkina Faso



## From Production to Markets





# Setting-up Innovation Platform (IP) in DONATA

Technology / best-bet practice scaling-up and out

Stakeholder analysis including roles and responsibilities

Determine challenges / opportunities to be addressed

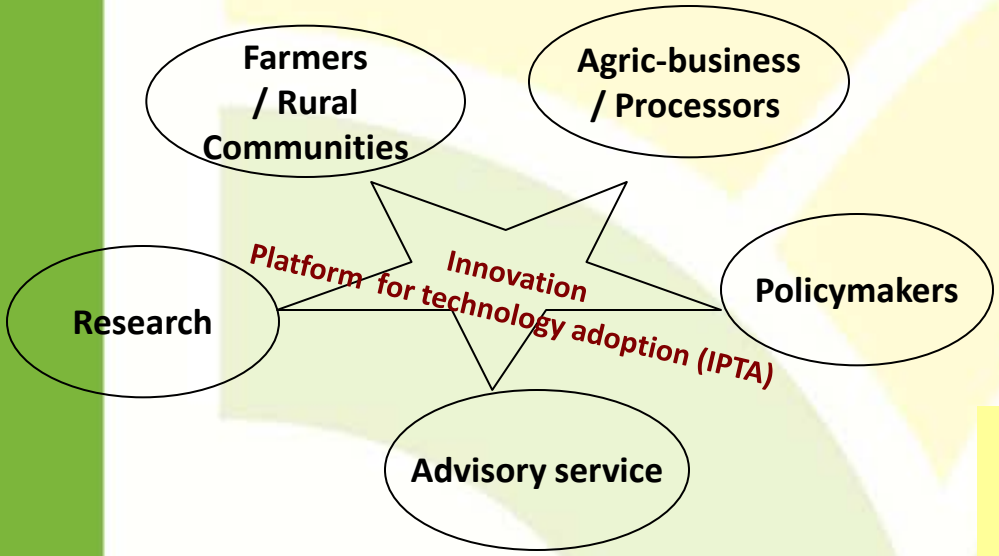
Select critical technology / best-bet practice to be promoted along segments of the value chain

Determine ecology/area to be covered

Establish platforms on priority segments as entry points of the value chain, and agree on role of actors for each segment

Changes on actors behaviour and or Impact

Dissemination Pathways & Participatory Approaches



# Stakeholder analysis of the Maize value chain IP in Burkina Faso

<b>Stakeholders</b>	<b>Key role</b>	<b><i>IPTA 1</i></b> <i>Seed, fertilizer access</i>	<b><i>IPTA 2</i></b> <i>Production of quality seed</i>	<b><i>IPTA 3</i></b> <i>Development &amp; marketing</i>
<b>IPTA Focal Person / Organization</b>	Managing the IPTAs and accounting for funds	INERA	INERA	INERA
<b>Farmer organization</b>	Promoting seed and grain maize production by FAPPASI extension agents	FNZ / FEPPASI	FNZ / FEPPASI	FNZ / FEPPASI representative
<b>Agri-businesses</b>	Contracts to supply maize to local markets and national food reserves. Developing maize & millet based products for the local market	ATCB, Association Provinciale des commerçants de céréales	ATCB SONAGESS CICB	ATCB, CTRAPA Djigui Espoir, Association Femme-Enfants plus, Etablissement Sapientia, CERFAS (La Céréalière du Faso)
<b>Transporters</b>	Facilitating collection and delivery of seed & grain maize and inputs & products	Association des transporteurs de la Sissili	Association des transporteurs de la Sissili	Transporteurs des Ouagadougou
<b>Public Extension</b>	Improving the technical skills of FEPPASI extension agents Assessing consumer preferences for maize & millet products	DPAH		Anthropologist/Sociologist
<b>Research</b>	Training of extension agents and champion farmers Assessing nutritional changes in households	INERA	INERA	Nutritionist -- Département de la technologie alimentaire (DTA)/IRSAT, INERA
<b>Policy</b>	Enhancing trust and confidence building among IPTA actors	Local Government	Local Government	Ligue des consommateurs Direction de la nutrition du Ministère de la santé
<b>Media</b>	Sensitization and information dissemination among IPTA actors; Promoting the visibility of IPTA along maize value chain	ONG CREDO La RED/Sissili AIB	ONG CREDO La RED/Sissili AIB	National TV, national radio Burkina, Sidwaya (national state daily journal)
<b>Retail / Consumers</b>	Feedback on perceptions and consumer behavioural changes			Mini-markets / Superette



# Key Results of the Maize Value Chain IP in Burkina Faso: From Production to Markets



Product development, marketing & consumption

**11,579 tons of grain maize produced**

**50 tons grain maize processed into flour**



Storage & marketing of quality  
grain maize

**2,500 tons commercial grain maize to  
SONAGES, Poultry Farmers & ATCB @  
CFA 150/Kg**



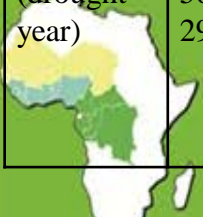
Famer seed  
entrepreneurs

**220 tons certified seed  
maize @ CFA 500/Kg**

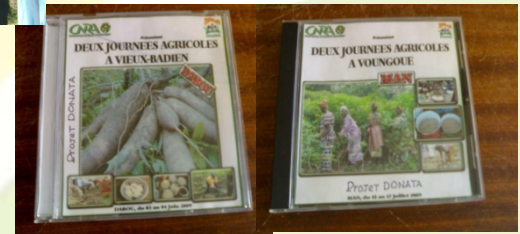


# Yield and incomes of the maize value chain innovation platform in Leo, Province of Sissili in Burkina Faso

Year	Beneficiary	Average Yield (Tonnes/ha)		Total Production (Tonnes)		Marketing of A grade Grain maize (Tonnes)		Income				
		Grain	Seed	Grain	Seed	Grain	Seed	Price US\$ / Kg		Price (US\$)		
								Grain	Seed	Grain	Seed	Total
2008	Not available	1.5 – 2.0	-	-	2	-	2	<b>0.23</b>	<b>0.84</b>	-	<b>1,673.64</b>	<b>1,673.64</b>
2009	<b>700</b> : 530 Male 170 Female	2.5	2	-	8	-	8	<b>0.23</b>	<b>0.84</b>	-	<b>6,694.56</b>	<b>6,694.56</b>
2010	<b>6250</b> : 4687 Male 1563 Female	3.5 – 5.0	2	4357.5	170	2000	170	<b>0.27</b>	<b>1.05</b>	<b>543,933.05</b>	<b>177,824.27</b>	<b>721,757.32</b>
2011 (drought year)	<b>8500</b> : 5600 Male 2900 Female	3.5 – 4.0	2	11759	220	2500	220	<b>0.31</b>	<b>1.05</b>	<b>784,518.83</b>	<b>230,125.52</b>	<b>1,014,644.35</b>



- Radio, TV
- Field Days & Fairs
- DVDs, CDs, Videos
- Print media
- Web eg. [www.coraf.org/technologie](http://www.coraf.org/technologie)  
and e-rails



# Skills Gap of Innovation Platform (IP) Actors: evidence base analysis

NARIs	Skills
Skills offered by NARIs	<p><b>Technical issues:</b> <i>seed production, fertilizer application, pests &amp; disease management, herbicide application &amp; weed control, pesticide application, planting method, animal drawn equipment, grain and product processing, rapid multiplication of cassava, inputs, communication (e-RAILS)</i></p>
Gaps/weaknesses of the NARIs	<p><b>Product, quality and consumption issues:</b> <i>product formulation, quality control in Good Hygiene and Manufacturing Practices and the Hazard Analysis Critical Control Point (GHP/GMP, HACCP), enforced quality control of products, traceability &amp; provision of practical guides for processing and preservation, Marketing support to improve product visibility, Trade fairs to boost sales, promotion and advertisement for the consumption of local products, information communication &amp; ICT, tools, contracting for the supply of quality grains suitable for processing</i></p> <p><b>Innovation platform (IP) issues:</b> <i>governance &amp; policy, facilitation, mapping of value chain actors, value chain analysis and its performance, gender and equity, processing &amp; value addition, agri-business &amp; finance, price &amp; market information, transportation, inputs &amp; sustainability</i></p>



- Analyze gender roles in value chains
  - - identify entry points/niches along the chains for women & youth involvement
- Analyze knowledge/capacity needs, resources, access to technologies & best bet practice
- Acquisition of assets especially by women
- create enabling conditions for women effective participation
- Monitor, learn and share experiences



# Lessons from facilitation

- Generally, Organisations or group of individual offer a wider skill set than an individual
  - Facilitation requires a wide-range of skills set
  - A person combining all required skills is rare, a team may be needed
  - Organisation assures continuity
  - A change of style and approach can be refreshing
  - Level of independence / impartiality appreciated
- Once established the platform participants can over time assume facilitation roles
- Facilitation is highly involving, and as a result costly



# Innovation Platform (IP) Impact Pathways

- Improved stakeholder relationship , knowledge & information flow

Output

- Identification of opportunities
- Needs articulation
- Conflict resolution
- Problem-solving
- Policy-advocacy
- Stakeholder organization

Immediate Outcomes

- Improved services (i.e. research, advisory, etc.)
- Improved policies and decision making
- Improved system efficiency
- Business deals and new agricultural business operations
- Improved production and management practices

Intermediate Outcomes

- Income increase
- Risk reduction
- Improve food security, welfare and livelihoods

Impact



# Institutionalizing Innovation Platform (IPs) in CORAF Projects

## Sensitize, Inform & Train

**i.** Extension Aids: videos, brochure, posters, leaflets, flyers, etc

Workshops , conference, seminars

**ii.** Skills development training through **Community of Practice** *less on* Training of Trainers (ToT)

Use complementary skilled trainers

## Coach & Mentor

**iii.** Technical backstopping through learning by doing

Resource persons

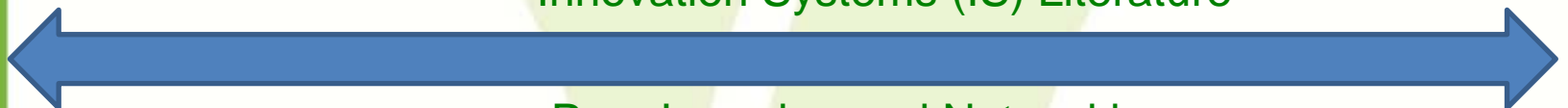
- Champions of change at NARS
- Consultants

Technical & Management organizations

- ICRA, KIT, IFDC, ILRI, IITA, AfricaRice, NRI, GIMPA, Afrique Communication, etc



Innovation Systems (IS) Literature



Peer Learning and Networking



## Innovation Platform—LEARNING by DOING

- **Triple Track Process**
  - (i) Sensitize to create awareness and secure buy-in and ownership among actors
  - (ii) Train to inform and educate to enhance understanding and skills of actors
  - (iii) Coach and mentor champions of change and or actors to enhance applicability of the innovation platform (IP) tool in CORAF projects
  - Process has high cost implications
- ***Minister of Science Technology & Innovation, Burkina Faso***
  - *I am convinced that innovation platform facilitates better organization of actors along value chains and the adoption of technology with great potential to contribute to wealth creation..... I am inspired to discuss with my colleagues in Government, the issue of organizational convergence using innovation platform to break the barriers to institutional convergence”*



# Acknowledgement

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# Thank YOU

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