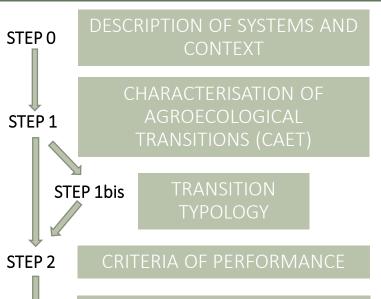


STEP 1

Characterization of Agroecological Transition (CAET)

TAPE: Tool for Agroecology Performance Evaluation

STEP 3



Primary and secondary information:

- Production systems, type of household, agroecological zones
- Existing policies (incl. climate change)
- Enabling environment

On farm/household survey:

- Describe current status
- Based on 10 elements of agroecology with descriptive scales
- Can be self assessment by producer

Statistical and/or participatory clustering to reduce sample size if large number of observations in CAET

On farm/household survey:

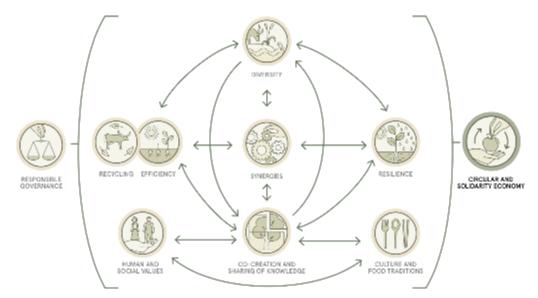
- Measure progress and quantify impact
- Addressing 5 key dimensions for policy makers and SDGs
- Time/cost constraints: keep it simple!

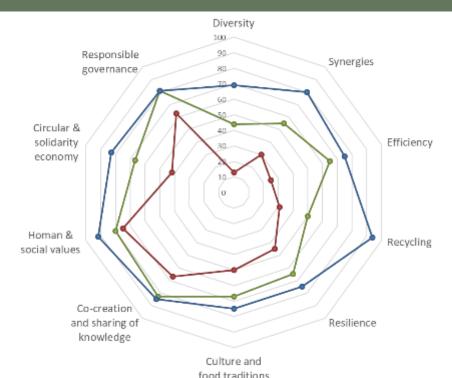
At territory/community scale:

- Review CAET results, explain with context, enabling environment
 Review Performance results and explain with CAET
- Analyze contribution to SDGs

10 Elements of Agroecology:

Guiding transition towards sustainable food and agriculture systems







1. Diversity

Element Indeces



Diversification is key to agroecological transitions to ensure food security and nutrition while conserving, protecting and enhancing natural resources

1.1 Crops

- 1.2 Animals (including fish and insects)
- 1.3 Trees (and other perennials)
- 1.4 Diversity of economic activities, products and services





1.1 Diversity of Crops



0	1	2	3	4
Monoculture	One crop covering	Two or three	More than 3 crops	More than 3 crops of
(or no crops	more than 80% of	crops with	with significant	different varieties
cultivated).	cultivated area.	significant	cultivated area	adapted to local
		cultivated area.	adapted to local and	conditions and
			changing climatic	spatially diversified
			conditions.	
				poly- or inter-
				cropping.







1.2 Diversity of Animals



1	2	3	4
One species only.	Two or three	More than 3 species	More than 3 species
	species, with	with significant	with different breeds
	few animals.	number of animals.	well adapted to local
			and changing climatic
			conditions.
	One species only.	species, with	species, with with significant





1.3 Diversity of Trees



0	1	2	3	4
No trees	Few trees	Some trees	Significant number of	High number of trees
(nor other	(and/or other	(and/or other	trees (and/or other	(and/or other
perennials).	perennials) of one	perennials) of	perennials) of	perennials) of
	species only.	more than one	different species.	different species
		species.		integrated within the
				farm land.



less trees more trees



1.4 Diversity of economic activities, products and services



0	1	2	3	4
One productive	Two or three	More than 3	More than 3	More than 3
activity only (e.g.	productive activities	productive	productive activities	productive activities,
selling one crop	(e.g. selling 2 crops	activities.	and one service (e.g.	and several services
only).	or one crop and one		processing products	
	type of animal).		on the farm,	
			ecotourism, transport	
			of agricultural goods,	
			training, etc.).	





1. Diversity

Element	Index	Score	
AL.	1.1 Crops	3	
DIVERGITY	1.2 Animals (including fish and insects)	1	Percentage of the element Diversity: 3+1+2+3 = 8 8 / maximum score (16) =
DIVERSITY	1.3 Trees (and other perennials)	2	50%
	1.4 Diversity of economic activities, products and services	2	

2. Synergies

Element Index



Building synergies enhances key functions supporting production and multiple ecosystem services

2.1 Crop-livestock-aquaculture integration

2.2 Soil-plants system management

2.3 Integration with trees (agroforestry, silvopastoralism, agrosilvopastoralism)

2.4 Connectivity between elements of the agroecosystem and the landscape





2.1 Crop-livestock-aquaculture integration



0 No integration: Low integration: animals, including animals are mostly fed fish, are fed with with purchased feed, purchased feed and their manure is used as their manure is not fertilizer used for soil fertility; or no animals in the agroecosystem.

Medium
integration: animals
are mostly fed with
feed produced on
the farm and/or
grazing, their
manure is used as
fertilizer

High integration: animals are mostly fed with feed produced on the farm, crop residues and byproducts and/or grazing, their manure is used as fertilizer and they provide traction

Complete integration:
animals are exclusively
fed with feed produced
on the farm, crop
residues and by-products
and/or grazing, all their
manure is recycled as
fertilizer and they provide
more than one service
(food, products, traction,
etc.).





2.2 Soil-plants system management



0	1	2	3	4
Soil is bare after	Less than 20% of the	50% of soil is	More than 80% of soil is	All the soil is covered with
harvest. No	arable land is covered	covered with	covered with residues or	residues or cover crops.
intercropping. No	with residues or cover	residues or cover	cover crops. Crops are	Crops are rotated
crop rotations (or	crops. More than 80%	crops. Some crops	rotated regularly or	regularly and
rotational grazing	of the crops are	are rotated or	intercropped (or rotational	intercropping is common
systems). Heavy soil	produced in mono and	intercropped (or	grazing is systematic). Soil	(or rotational grazing is
disturbance	continuous cropping (or	some rotational	disturbance is minimized.	systematic). Little or no
(biological, chemical	no rotational grazing).	grazing is carried		soil disturbance.
or mechanical).		out).		
				H. Alexander
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				THE COLUMN
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Contract of the second	444	- 3		



2.3 Integration with trees (agroforestry, silvopastoralism, agrosilvopastoralism)



0	1	2	3	4
No integration:	Low integration: small	Medium	High integration:	Complete integration:
trees (and other	number of trees (and	integration:	significant number of trees	many trees (and other
perennials) don't	other perennials) only	significant number	(and other perennials)	perennials) provide
have a role for	provide one product or	of trees (and other	provide several products	several products and
humans or in crop	service for humans	perennials) provide	and services.	services.
or animal	crops and/or animals.	at least one product		
production.		or service.		







2.4 Connectivity between elements of the agroecosystem and the landscape



0	1	2	3	4
No connectivity:	Low connectivity: a few	Medium	Significant connectivity:	High connectivity: the
high uniformity	isolated elements can	connectivity:	several elements can be	agroecosystem presents a
within and outside	be found in the	several elements	found in between plots of	mosaic and diversified
the agroecosystem,	agroecosystem, such as	are adjacent to	crops and/or pastures or	landscape, many elements
no semi-natural	trees, shrubs, natural	crops and/or	several zones of ecological	such as trees, shrubs,
environments, no	fences, a pond or a	pastures or a large	compensation (trees,	fences or ponds can be
zones of ecological	small zone of ecological	zone of ecological	shrubs, natural vegetation,	found in between each
compensation.	compensation.	compensation.	pastures, hedges,	plot of cropland or
			channels, etc.).	pasture, or several zones
				of ecological
				compensation.
			113	The second second



2. SYNERGIES

Element	Index	Score	
SYNERGIES	2.1 Crop-livestock-aquaculture integration	1	Dragantage of the element
	2.2 Soil-plants system management	4	Precentage of the element Synergies: 1 + 4 + 3 + 4 = 12 12 / maximum score (16) =
	2.3 Integration with trees (agroforestry, silvopastoralism, agrosilvopastoralism)		75%
	2.4 Connectivity between elements of the agroecosystem and the landscape	4	



3. EFFICIENCY

Element	Index	
	3.1 Use of external inputs	
333	3.2 Management of soil fertility	The same
Producing more using less (external) resources	3.3 Management of pests & diseases	
	3.4 Productivity and household's needs	









3.1 Use of external inputs



0	1	2	3	4
All inputs are	The majority of the	Some inputs are	The majority of the	All inputs are produced
purchased from	inputs is purchased	produced on	inputs is produced on	on farm/within the
the market.	from the market.	farm/within the	farm/within the	agroecosystem or
		agroecosystem or	agroecosystem or	exchanged with other
		exchanged with	exchanged with other	members of the
		other members of	members of the	community.
		the community.	community.	





3.2 Management of soil fertility



0	1	2	3	4
Synthetic fertilisers	Synthetic fertilizers are	Synthetic fertilisers	Synthetic fertilisers are	No synthetic fertilisers are
are used regularly	used regularly on most	are used on a few	only used exceptionally. A	used, soil fertility is
on all crops and/or	crops and some organic	specific crops only.	variety of organic practices	managed only through a
grasslands (or no	practices (e.g. manure	Organic practices	are the norm.	variety of organic
fertilizers are used	or compost) are applied	are applied to the		practices.
for lack of access,	to some crops and/or	other crops and/or		
but no other	grasslands.	grasslands.		
management				
system is used).				







3.3 Management of pests & diseases



0	1	2	3	4
Chemical pesticides	Chemical pesticides and	Pests and diseases	No chemical pesticides	No chemical pesticides
and drugs are used	drugs are used for a	are managed	and drugs are used.	and drugs are used. Pests
regularly for pest	specific crop/animal	through organic	Biological substances are	and diseases are managed
and disease	only. Some biological	practices but	the norm.	through a variety of
management. No	substances and organic	chemical pesticides		biological substances and
other management	practices are applied	are used only in		prevention measures.
is used.	sporadically.	specific and very		
		limited cases.		







3.4 Productivity and household's needs



0	1	2	3	4
Household's needs are not met for food nor for other essentials.	Production covers only household's needs for food. No surplus to generate income.	Production covers household's needs for food and surplus generates cash to buy essentials but doesn't allow savings.	Production covers household's needs for food and surplus generates cash to buy essentials and to have sporadic savings.	All household's needs are met both for food and for cash to buy all essentials needed and to have regular savings.

3. EFFICIENCY

Element	Index	Score	
	3.1 Use of external inputs	3	
233	3.2 Management of soil fertility	3	Percentage of the element Efficiency: 3 + 3 + 3 + 4 = 13 13 / maximum score (16) =
EFFICIENCY	3.3 Management of pests & diseases	3	81.3%
	3.4 Productivity and household's needs	4	



4. RECYCLING

Element	Index	
	4.1 Recycling of biomass and nutrients	
	4.2 Water saving	
Recycling means agricultural production with low	4.3 Management of seeds and breeds	
economic and environmental costs	4.4 Renewable energy use and production	6





4.1 Recycling of biomass and nutrients



0 Residues and by-A small part of the residues More than half of the products are not recycled and by-products is recycled residues and by-(e.g. crop residues as animal (e.g. left for products is recycled. decomposition or burnt). feed, use of manure as Some waste is Large amounts of waste fertilizer, production of

compost from manure and

household waste, green

manure). Waste is discharged or burnt.

discharged or burnt.

Most of the residues and byproducts are recycled. Only a little waste is discharged or burnt.

All of the residues and by-products are recycled. No waste is discharged or burnt.







are discharged or burnt.



4.2 Water saving



0	1	2	3	4
No equipment nor	One type of equipment	One type of equipment	One type of	Several types of
techniques for	for water harvesting or	for water harvesting or	equipment for water	equipment for water
water harvesting or	saving (e.g. drip	saving and use of one	harvesting or saving	harvesting or saving and
saving.	irrigation, tank).	practice to limit water	and various practices	various practices to limit
		use (e.g. timing	to limit water use.	water use.
		irrigation, cover crops).		
			-	
A VOI OF BY	2000			





Less water saving

More water saving



4.3 Management of seeds and breeds



0	1	2	3	4
All seeds and/or	More than 80% of	About half of the seeds	The majority of	All seeds/animal genetic
animal genetic	seeds/animal	are self-produced or	seeds/animal genetic	resources are self-
resources (e.g.	genetic resources	exchanged, the other half	resources are self-	produced, exchanged with
chicks, young	are purchased from	is purchased from the	produced or exchanged.	other farmers or managed
animals, semen) are	the market.	market. About half of the	Some specific seeds are	collectively, ensuring
purchased from the		breeding is done with	purchased from the	enough renewal and
market.		neighbouring farms.	market.	diversity.





4.4 Renewable energy use and production



0	1	2	3	4
No renewable	The majority of the	Half of the energy	Significant production of	All of the energy used is
energy is used nor	energy is purchased	used is self-	renewable energy,	renewable and/or self-
produced.	from the market. A	produced, the other	negligible use of fuel and	produced. Household is
	small amount is self-	half is purchased.	other non-renewable	self-sufficient for energy
	produced (animal		sources.	supply, which is
	traction, wind, turbine,			guaranteed at every time.
	hydraulic, biogas,			Use of fossil fuel is
	wood).			negligible.





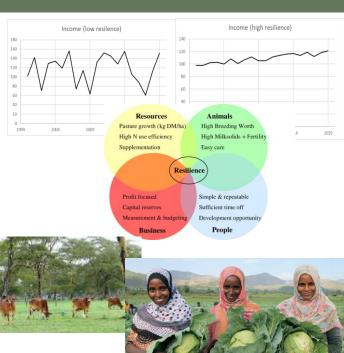
4. RECYCLING

Element	Index	Score	
	4.1 Recycling of biomass and nutrients	4	
	4.2 Water saving	2	Percentage of the element Recycling: 4 + 2 + 2 + 2 = 10 10 / maximum score (16) =
RECYCLING	4.3 Management of seeds and breeds	2	62.5%
	4.4 Renewable energy use and production	2	



5. RESILIENCE

	1
Element	Index
	5.1 Stability of income/production and capacity to recover from perturbations
	5.2 Mechanisms to reduce vulnerability
An emerging property of agroecology, resilience is key to	5.3 Environmental resilience and capacity to adapt to climate change
sustainability	5.4 Average Diversity



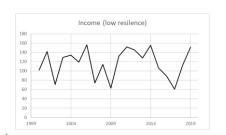


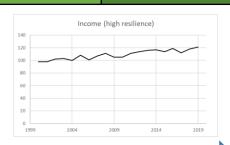
5.1 Stability of income/production and capacity to recover from perturbations



0 Income is decreasing Income is on decreasing Income is overall Income is stable and year after year, trend, production is stable, but production production varies little production is highly variable from year to is variable from year from year to year (with variable despite constant year (with constant to year (with constant constant inputs). level of inputs and there inputs) and there is little inputs). Income and Income and production is no capacity to recover capacity to recover after production mostly mostly recover after recover after after shocks/perturbations. shocks/perturbations. shocks/perturbations. shocks/perturbations.

Income and production are stable and increasing over time. They fully and quickly recover after shocks/perturbations.







Food and Agriculture Organization 5.2 Mechanisms to reduce vulnerability of the United Nations



0	1	2	3	4
No access to	Community is not	Community is supportive	Community is very	Community is highly
credit, no	very supportive and	but its capacity to help	supportive for both men	supportive for both men
insurance, no	its capacity to help	after shocks is limited.	and women but its	and women and can
community	after shocks is very	And/or access to credit is capacity to help after		significantly help after
support	limited. And/or	available but hard to	available but hard to shocks is limited. And/or	
mechanisms.	access to credit and	obtain in practice. access to credit is c		credit is almost systematic
	insurance is limited.	Insurance is rare and does available and insurance		and insurance covers
		not allow for complete covers only specific		most of production.
		coverage from risks.	products/risks.	







5.3 Environmental resilience and capacity to adapt to climate change



0	1	2	2 3	
Local environment	Local environment	Local environment can	Local environment can	Local environment has a
is highly prone to	suffers from climatic	suffer from climatic	suffer from climatic	strong natural capital
climatic shocks and	shocks and the	shocks but the system has	shocks but the system	base, climatic shocks are
the system has little	system has little	a good capacity to adapt	has a strong capacity to	rare and the system has a
capacity to adapt to	capacity to adapt to	to climate change	adapt to climate change	strong capacity to adapt
climate change	climate change			to climate change





5.4 Average Diversity









Less diversity More diversity

5. RESILIENCE

Element	Index	Score	
RESILIENCE	5.1 Stability of income/production and capacity to recover from perturbations	3	Percentage of the element
	5.2 Mechanisms to reduce vulnerability	3	Percentage of the element Resilience: 3 + 3 + 3 + 2 = 11 11 / maximum score (16) =
	5.3 Environmental resilience and capacity to adapt to climate change	3	68.8%
	5.4 Average Diversity	2	



6. Culture and food traditions

Element	Index



Healthy, diversified and culturally appropriate diets for food security and nutrition while maintaining the health of ecosystems

6.1 Appropriate diet and nutrition awareness

6.2 Local or traditional (peasant / indigenous) identity and awareness

6.3 Use of local varieties/breeds and traditional (peasant & indigenous) knowledge for food preparation











6.1 Appropriate diet and nutrition awareness



0	1	2	3	4
Systematic insufficient	Periodic insufficient	Overall food security	Food is sufficient and	Healthy, nutritious,
food to meet nutritional	food to meet nutritional	over time, but	diverse. Good	diversified diet. Good
needs and lack of	needs and/or diet is	insufficient diversity in	nutritional practices	nutritional practices
awareness of good	based on a limited	food groups. Good	are known but not	are well known and
nutritional practices.	number of food groups.	nutritional practices	always enforced.	enforced.
	Lack of awareness of	are known but not		
	good nutritional	always enforced.		
	practices.			









6.2 Local or traditional (peasant / indigenous) identity and awareness



0	1	2	3	4
No local or	Little awareness of	Local or traditional identity	Good awareness of local	Local or traditional
traditional	local or traditional	felt in part, or that	or traditional identity and	identity strongly felt and
(peasant /	identity.	concerns only part of the	respect of traditions or	protected, high respect
indigenous)		household.	rituals overall.	for traditions and/or
identity felt.				rituals.
		AND LOCAL DESIGNATION OF THE PERSON NAMED IN COLUMN 1		
			AR	

Weaker identity Stronger identity



6.3 Use of local varieties/breeds and traditional (peasant & indigenous) knowledge for food preparation

0	1	2	2	1
No use of local	A majority of	Both local and	The majority of the food	A number of local
	, ,			
varieties/breeds nor	exotic/introduced	exotic/introduced	consumed comes from	varieties/breeds are
traditional	varieties/breeds are	varieties/breeds are	local varieties/breeds	produced and consumed.
knowledge for food	consumed, or there	produced and consumed.	and traditional	Traditional knowledge and
preparation.	is little use of	Local or traditional	knowledge and practices	practices for food
	traditional	knowledge and practices	for food preparation are	preparation are identified,
	knowledge and	for food preparation are	implemented.	applied and recognised in
	practices for food	identified but not always		official frameworks and/or
	preparation.	applied.		specific events.





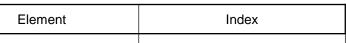
Less local varieties More local varieties

6. Culture and food traditions

Element	Index	Score	
Culture and food traditions	6.1 Appropriate diet and nutrition awareness	4	Percentage of the element Culture
	6.2 Local or traditional (peasant / indigenous) identity and awareness	4	and Food Traditions: 4 + 4 + 4 = 12 12 / maximum score (12) =
	6.3 Use of local varieties/breeds and traditional (peasant & indigenous) knowledge for food preparation	4	100%



7. Co-creation and sharing of knowledge





Bottom-up approaches and co-creation through participatory processes

7.1 Platforms for the horizontal creation and transfer of knowledge and good practices

7.2 Access to agroecological knowledge and interest of producers in agroecology

7.3 Participation of producers in networks and grassroot organizations







7.1 Platforms for the horizontal creation and transfer of knowledge and good practices



0	1	2	3	4
No platforms for co-	At least one	At least one platform for	One or several	Several well established
creation and	platform for the co-	the co-creation and	platforms for the co-	and functioning platforms
transfer of	creation and	transfer of knowledge	creation and transfer of	for the co-creation and
knowledge are	transfer of	exists and is functioning	knowledge exist, are	transfer of knowledge are
available to	knowledge exists	but is not used to share	functioning and are	available and widespread
producers.	but does not	knowledge on agroecology	used to share	within the community,
	function well and/or	specifically.	knowledge on	including women.
	is not used in		agroecology, including	
	practices.		women.	





7.2 Access to agroecological knowledge and interest of producers in agroecology



0	1	2	3	4
Lack of access	Principles of	Some agroecological	Agroecology is well known	Widespread access to
to	agroecology are	principles are known to	and producers are willing to	agroecological knowledge of
agroecological	mostly unknown	producers and there is	implement innovations,	both men and women:
knowledge:	to producers	interest in spreading the	facilitating knowledge sharing	producers are well aware of the
principles of	and/or there is	innovation, facilitating	within and between	principles of agroecology and
agroecology	little trust in	knowledge sharing within	communities and involving	eager to apply them, facilitating
are unknown	them.	and between	younger generations,	knowledge sharing within and
to producers.		communities and	including women and	between communities and
		involving younger	younger generations.	involving younger generations.
		generations.		







7.3 Participation of producers in networks and grassroot organizations



Producers are isolated, have almost no relations with their local community and do not participate in meetings and grassroot organisations.

0

Producers have sporadic relations with their local community and rarely participate in meetings and grassroot organisations.

Producers have regular relations with their local community and sometimes participate in the events of their grass-root organisations but not as much for women.

Producers are well interconnected with their local community and often participate in the events of their grassroot organisations, including women.

Producers (with equal participation of men and women) are highly interconnected and supportive and show a very high engagement and participation in all the events of their local.





7. Co-creation and sharing of knowledge

Element	Index	Score	
Co-creation and sharing of knowledge	7.1 Platforms for the horizontal creation and transfer of knowledge and good practices	3	Percentage of the element Co-
	7.2 Access to agroecological knowledge and interest of producers in agroecology	3	creation and sharing of knowledge: $3 + 3 + 4 = 10$ $10 / \text{maximum score (12)} =$
	7.3 Participation of producers in networks and grassroot organizations	4	83,3%



8. Human and social values

Element Index



Strong emphasis on dignity, equity, inclusion 8.3 Youth empowerment and and justice all contributing to the improved livelihoods

8.1 Women's empowerment

8.2 Labour (productive conditions, social inequalities)

emigration

8.4 Youth empowerment and dimension of the SDGs. emigration [if applicable]





8.1 Women's empowerment



0	1	2	3	4
Women do not	Women may have a	Women can influence decision	Women take full part	Women are
normally have a	voice in their	making, both at household and	in decision making	completely
voice in decisio	n household but not in	community level, but are not	processes but still	empowered in terms
making, not in th	ne the community.	decision makers. They don't	don't have full access	of decision making
household nor i	n And/or one form of	have access to resources.	to resources. And/or	and access to
the community.	No women association	And/or some forms of women	women organisations	resources. And/or
organisation fo	r exists but is not fully	associations exist but are not	exist and are used.	women organisations
women	functional.	fully functional.		exist, are functional
empowerment				and operational.
exists.				



8.2 Labour (productive conditions, social inequalities)



0	1	2	3	4
Agricultural supply chains are	Working	Agriculture is mostly	Agriculture is mostly	Agriculture is based
integrated and managed by	conditions are	based on family	based on family farming	on family farmers
agribusiness. There is a social	hard, workers	farming but producers	and producers (both men	which have full access
and economic distance	have average	have limited access to	and women) have access	to capital and
between landowners and	wages for the	capital and decision-	to capital and decision-	decision-making
workers. And/or workers	local context	making processes.	making processes.	processes in gender
don't have decent working	and may be	Workers have the	Workers have decent	equity. There is a
conditions, make low wages	exposed to risks.	minimum decent	labour conditions.	social and economic
and are highly exposed to		labour conditions.		proximity between
risks.				farmers and
		272.15		employees.



8.3 Youth empowerment and emigration



0	1	2	3	4
Young people see	Most young people	Most young people do not	Most young people (both	Young people (both
no future in	think that	want to emigrate, despite	boys and girls) are	boys and girls) see their
agriculture and are	agriculture is too	hard working conditions,	satisfied with working	future in agriculture and
eager to emigrate.	hard and many wish	and wish to improve their	conditions and do not	are eager to continue
	to emigrate.	livelihoods and living	want to emigrate.	and improve the activity
		conditions within their		of their parents.
		community.		







8.4 Animal welfare (if applicable)



0	1	2	3	4
Animals suffer from	Animals suffer	Animals do not suffer	Animals do not suffer	Animals do not suffer from
hunger and thirst,	periodically/seasona	from hunger or thirst,	from hunger, thirst or	stress, hunger, thirst, pain,
stress and diseases	lly from hunger and	but suffer from stress,	diseases but can	or diseases, and are
all year long, and	thirst, stress or	may be prone to	experience stress,	slaughtered in a way to
are slaughtered	diseases, and are	diseases and can suffer	especially at slaughter.	avoid unnecessary pain.
without avoiding	slaughtered without	from pain at slaughter.		
unnecessary pain.	avoiding			
	unnecessary pain.			





8. Human and social values

Element	Index	Score	
Human and social	8.1 Women's empowerment	2	Percentage of the element of
	8.2 Labour (productive conditions, social inequalities)	3	Humand and social values: 2+3+2+2=9 9 / maximum score (16) =
	8.3 Youth empowerment and emigration	2	56.3%
	8.4 Youth empowerment and emigration [if applicable]	2	



9. Circular and solidarity economy

Element Index



Reconnects producers and producers, relationship consumers and provides innovative solutions for living within our planetary boundaries while ensuring the social foundation for inclusive and sustainable development

9 1 Products and services marketed locally

9.2 Networks of with consumers and presence of intermediaries

9.3 Local food system





9.1 Products and services marketed locally



0	1	2	3	4
No product/service is	Local markets exist but	Local markets exist.	Most products/services	All products and
marketed locally (or not	hardly any of the	Some	are marketed locally.	services are marketed
enough surplus	products/services are	products/services are		locally.
produced), or no local	marketed locally.	marketed locally.		
market exist.				





9.2 Networks of producers, relationship with consumers and presence of intermediaries



0	1	2	3	4
No networks of	Networks exist but	Networks exist and are	Networks exist and are	Well established and
producers for	do not work	operational, but don't	operational, including	operational networks
marketing agricultural	properly. Little	include women. Direct	women. Direct	exist with equal
production exist. No	relationship with	relationship with	relationship with	women participation.
relationship with	consumers.	consumers exist.	consumers exist.	Strong and stable
consumers.	Intermediaries	Intermediaries manage	Intermediaries manage	relationship with
Intermediaries	manage most of the	part of the marketing	part of the marketing	consumers. No
manage the whole	marketing process.	process.	process.	intermediaries.
marketing process.				







9.3 Local food system



0	1	2 3		4
Community is	The majority of food	Food supply and inputs	Food supply and inputs Equal shares of food	
totally dependent	supply and agricultural	are purchased from	supply and inputs are	almost completely
on the outside for	inputs are purchased from	outside the community	locally available and	self-sufficient for
purchasing food	outside and products are	and/or products are	purchased from outside	agricultural and
supply and	processed and marketed	processed locally. Some	the community and	food production.
agricultural inputs	outside the local	goods and services are	products are processed	High level of
and for the	community. Very few	exchanged/sold	locally. Exchanges/trade	exchange/trade of
marketing and	goods and services are	between local	between producers are	products and
processing of	exchanged/sold between	producers.	regular.	services between
products.	local producers.			producers.





9. Circular and solidarity economy

Element	Index	Score	
Circular and solidarity economy	9.1 Products and services marketed locally	2	Percentage of the element Circular
	9.2 Networks of producers, relationship with consumers and presence of intermediaries	2	and solidarity economy: $2 + 2 + 1 = 5$ $5 / \text{maximum score (12)} =$
	9.3 Local food system	1	41.7%



10. Responsible Governance

Element Index



Responsible and effective governance mechanisms are required at different scales (local, national, global) for sustainable food and agriculture

10.1 Producers' empowerment

10.2 Producers' organizations and associations

10.3 Participation of producers in governance of land and natural resources





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10.1 Producers' empowerment



0	1	2 3		4
Producers' rights	Producers' rights are	Producers' rights are	Producers' rights are	Producers' rights are
are not respected.	recognised but not	recognised and respected	recognised and respected	recognised and respected
They have no	always respected.	for both men and women.	for both men and	for both men and
bargaining power	They have small	They have small	women. They have the	women. They have the
and lack the means	bargaining power	bargaining power but are	capacity and the means	capacity and the means
to improve their	and little means to	not stimulated to improve	to improve their	to improve their
livelihoods and	improve their	their livelihoods and/or to	livelihoods and are	livelihoods and to
develop their skills.	livelihoods and/or to	develop their skills.	sometimes stimulated to	develop their skills.
	develop their skills.		develop their skills.	







10.2 Producers' organizations and associations



0	1	2	3	4
Cooperation among	One organisation of	One organisation of	One organisation of	More than one
producers is non-	producers exists but	producers exists and	producers exists and	organisation exists.
transparent, corrupted or	its role is marginal	provides support to	provides support to	They provide
non-existent. No existing	and support to	producers for market access	producers for market	market access and
organisation or they do	producers limited to	and other services (e.g.	access and other	other services, with
not to distribute profits	market access.	information, capacity	services with equal	equal access to
transparently and/or		development, incentives),	access to men and	men and women.
equally nor do they		but women don't have	women.	
support producers.		access.		







10.3 Participation of producers in governance of land and natural resources



0			
Producers are			
completely			
excluded from the			
governance of land			
and natural			
resources. There is			
no gender equity in			
the governance of			
land and natural			
resources.			

Producers
participate in the
governance of land
and natural
resources but their
influence on
decisions is limited.
Gender equity is
not always
respected.

Mechanisms allowing producers to participate in the governance of land and natural resources exist but are not fully operational. Their influence on decisions is limited. Gender equity is not always respected.

Mechanisms allowing producers to participate in the governance of land and natural resources exist and are fully operational. They can influence decisions.

Gender equity is not always respected.

Mechanisms allowing producers to participate in the governance of land and natural resources exist and are fully operational. Both women and men can influence decisions.

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10. Responsible Governance

Element	Index	Score	
Responsible Governance	10.1 Producers' empowerment	3	Percentage of the element
	10.2 Producers' organizations and associations	3	Responsible Governance: 3 + 3 + 3 = 9 9 / maximum score (12) =
	10.3 Participation of producers in governance of land and natural resources	3	75%



Step 1 CAET – results of 3 farms in Cuba



- 1) Conventional farm (tobacco monoculture) (CAET=44%)
- 2) Farm in transition to agroecology (CAET=66%)
- 3) Diversified agroecological farm (CAET=81%)

STEP 1 bis

