



for



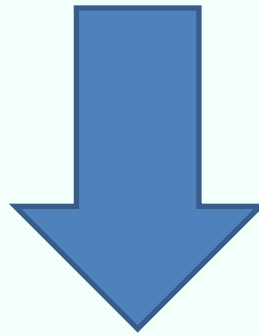
## Framing Question 2:

**IS THIS ECONOMIC GROWTH  
INCLUSIVE?**



# Objective

- How do the VC **organisation** and **governance** involve the various stakeholders?
- How are the **incomes** and **employment** generated distributed among social groups?

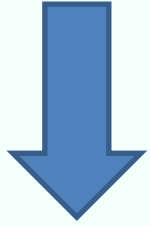


Economic and social experts build an image of inclusiveness of the VC.

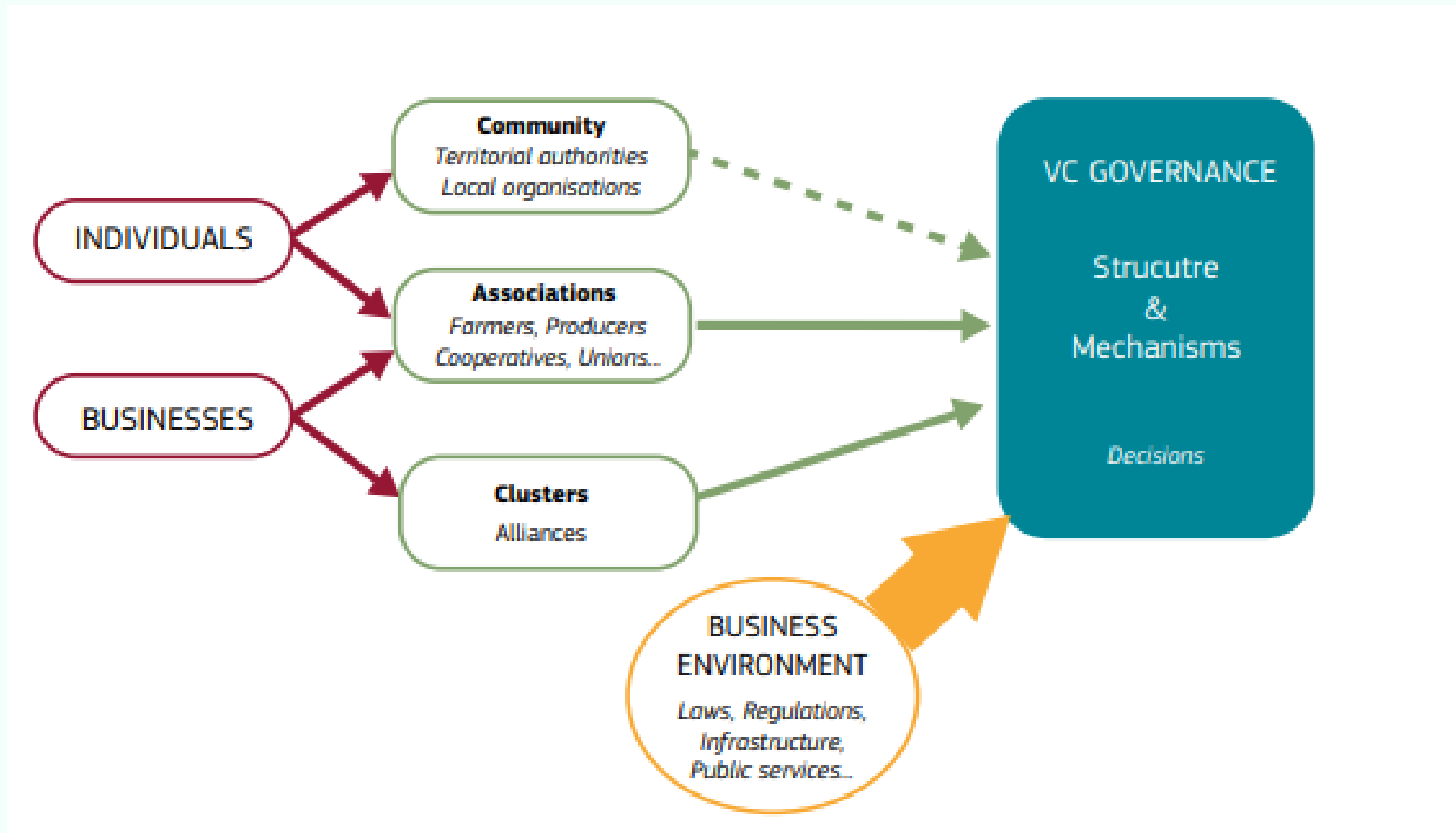
- ➔ Impact on vulnerable groups: subsistence-oriented farmers, smallholders, **women, youth, and marginalised people** (landless rural workers, minority communities...)
- ➔ **Sub-chains** may have different outcomes on inclusiveness.



# PARTICIPATION IN THE VALUE CHAIN GOVERNANCE



# Who are involved in decision?



# Experts are expected to

review the horizontal and vertical **coordination**, the rules and arrangements in place and the access to information

investigate on the **social capital**, i.e associations (farmers and producers' organisations, business alliances, workers' unions...), the power relations (including local authorities), the community involvement, and the level of trust

# What are the (positive and negative) drivers?



Power of **producers' organisations** → How is the price set?



**Market networks** and **firms' integration** → How the negotiations on working conditions and price bargaining are regulated?



**Income distribution** → Are women and vulnerable people involved in decision-making processes?



**Access to assets and resources** → What is the capacity of getting decent return?

# Involvement in sub-chains (Fresh beans for export VC)

Smallholders in open market Individuals scattered in remote areas	Smallholders with contract Members of formal and informal groups
Participation in collective governance	
<ul style="list-style-type: none"> <li>No coordination: sales to brokers and middlemen (without direct contact with export companies)</li> <li>Sales negotiated on spot with brokers and middlemen .No organisation to build social capital</li> </ul>	<ul style="list-style-type: none"> <li>Contract provides close ties with export companies (including certification and support for management)</li> <li>Early agreement on prices, collection times and produce quality</li> <li>Membership in various formal and informal groups</li> </ul>
Access to Services	
<ul style="list-style-type: none"> <li>Few extension services and no targeted counselling</li> <li>Limited training (from brokers) on agronomic and food safety practices</li> </ul>	<ul style="list-style-type: none"> <li>Contractual extension services on production and management practices and training on new market compliance requirements</li> <li>Support for credit facilities and funding for a collection and grading house</li> </ul>
Indicators	
<ul style="list-style-type: none"> <li>Yield around 6 t/ha</li> <li>Reduced farm gate price</li> <li>Operating Profit ~6400 UM/1000 sqm<sup>2</sup></li> <li>Loosing market shares overtime</li> </ul>	<ul style="list-style-type: none"> <li>Yield around 10 t/ha</li> <li>Operating Profit ~ 30,000 UM/1000 sqm<sup>2</sup></li> <li>Sustained market share</li> </ul>

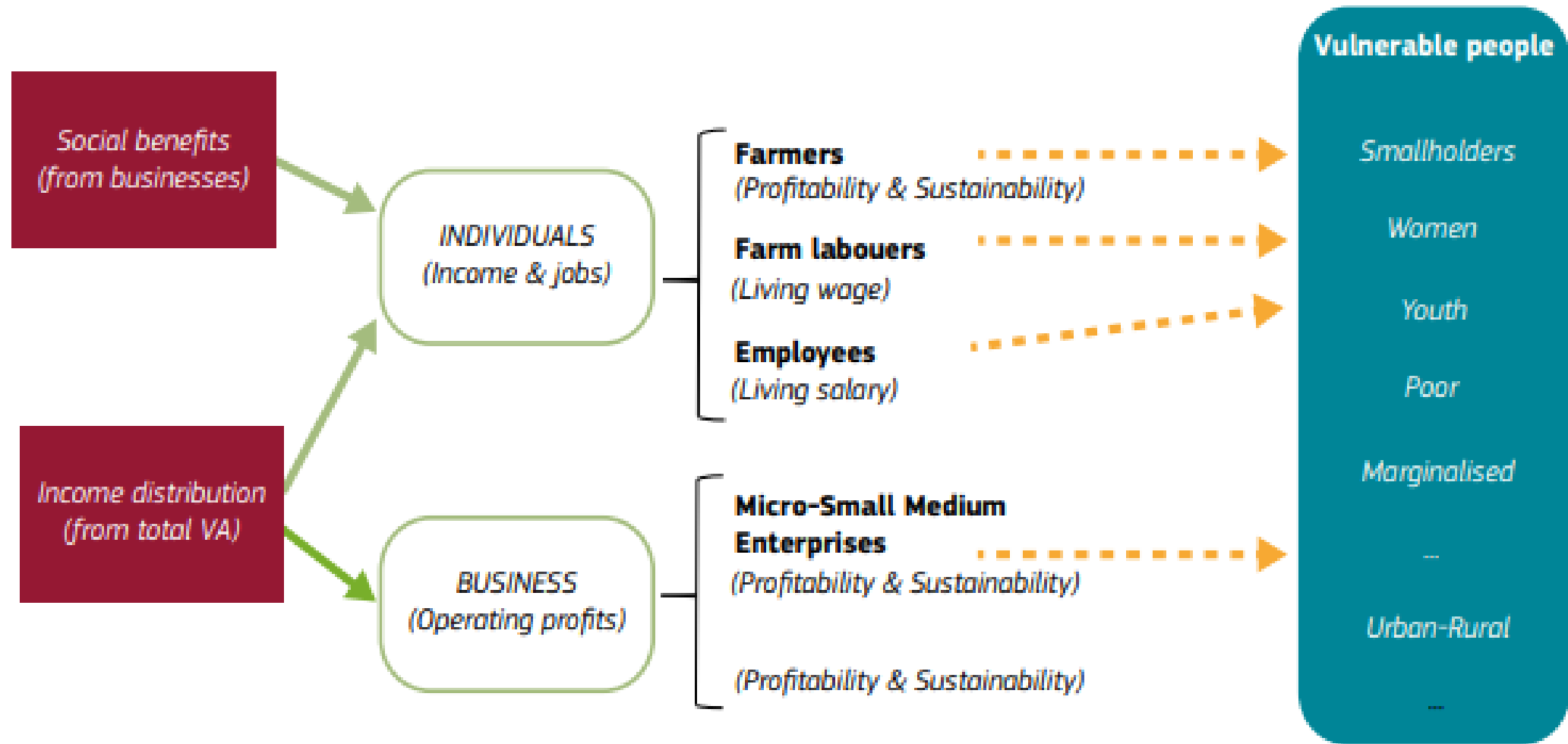


# INCOME AND EMPLOYMENT



How do households and businesses take advantage of the VC operations?

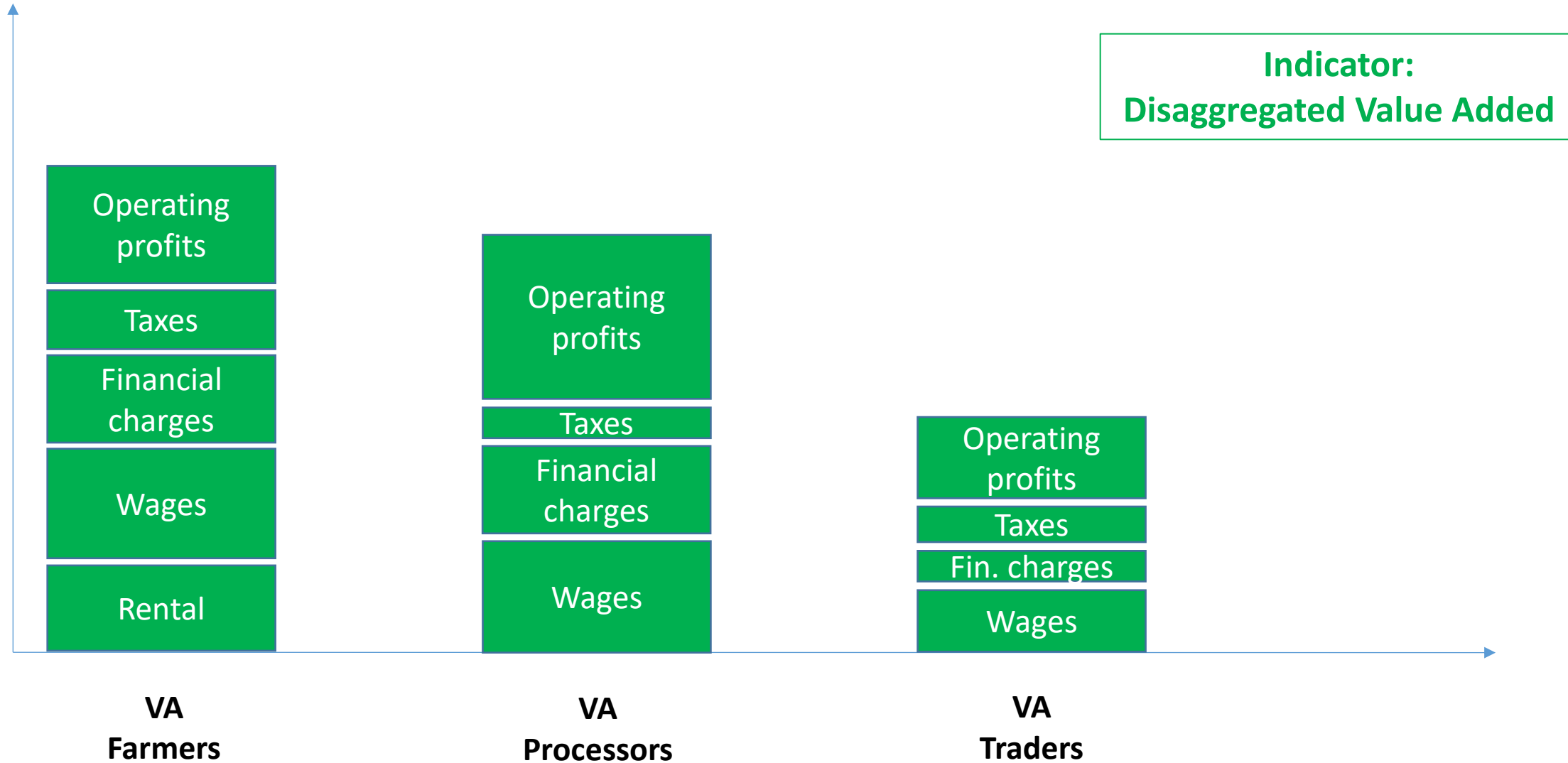
# Main elements of the analysis of income and employment



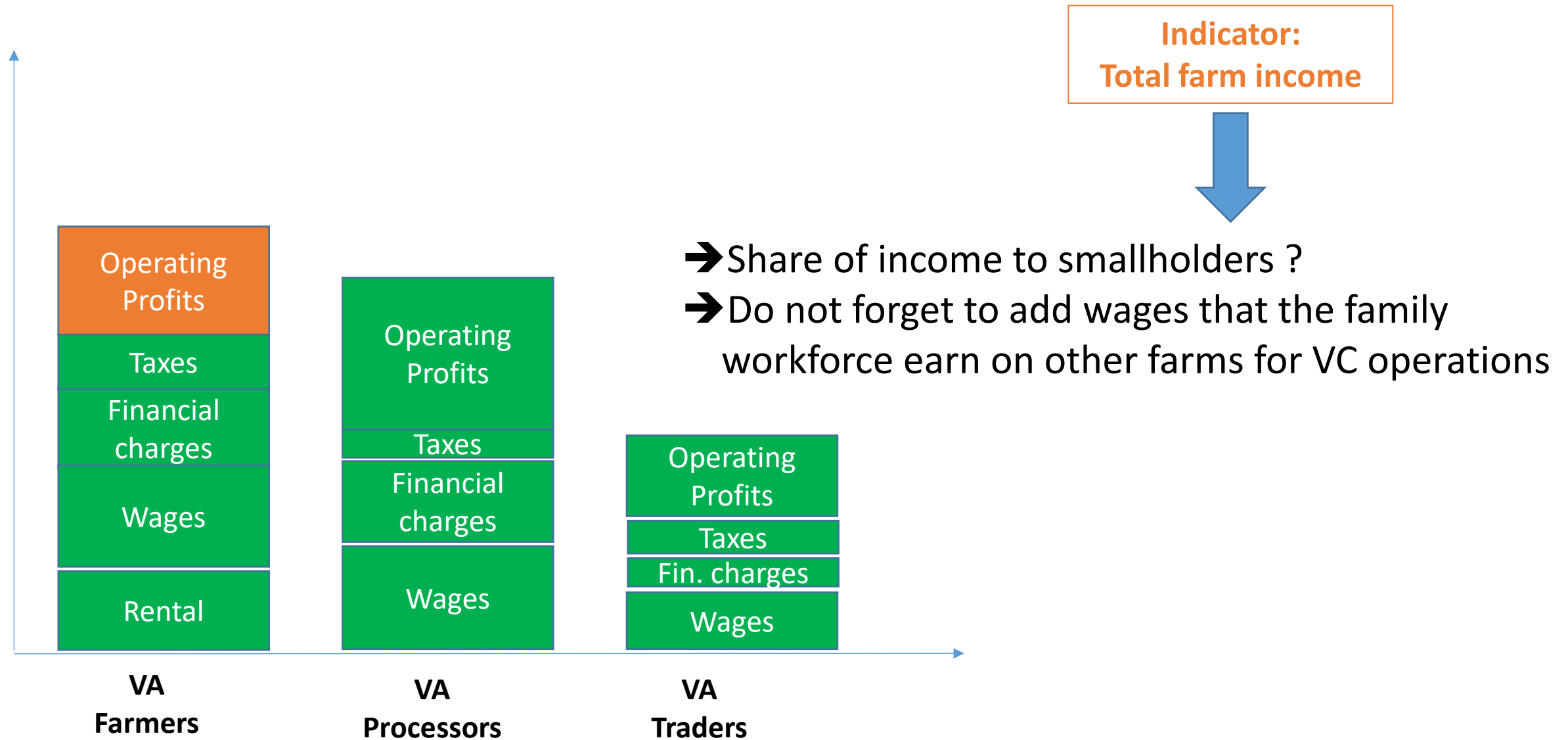
## Core Question 2.1: How is income distributed across actors of the VC?

Indicators: **Disaggregated Value Added**; Total Farm Income; Total wages and salaries (at every stage, all activities – absolute and %); Value of social benefits; Comparison of sub-chain's income distribution; **Total income accruing to marginalized and vulnerable groups.**

## CQ 2.1 : How is income distributed across actors of the value chain?



## CQ 2.1 : How is income distributed across actors of the value chain?



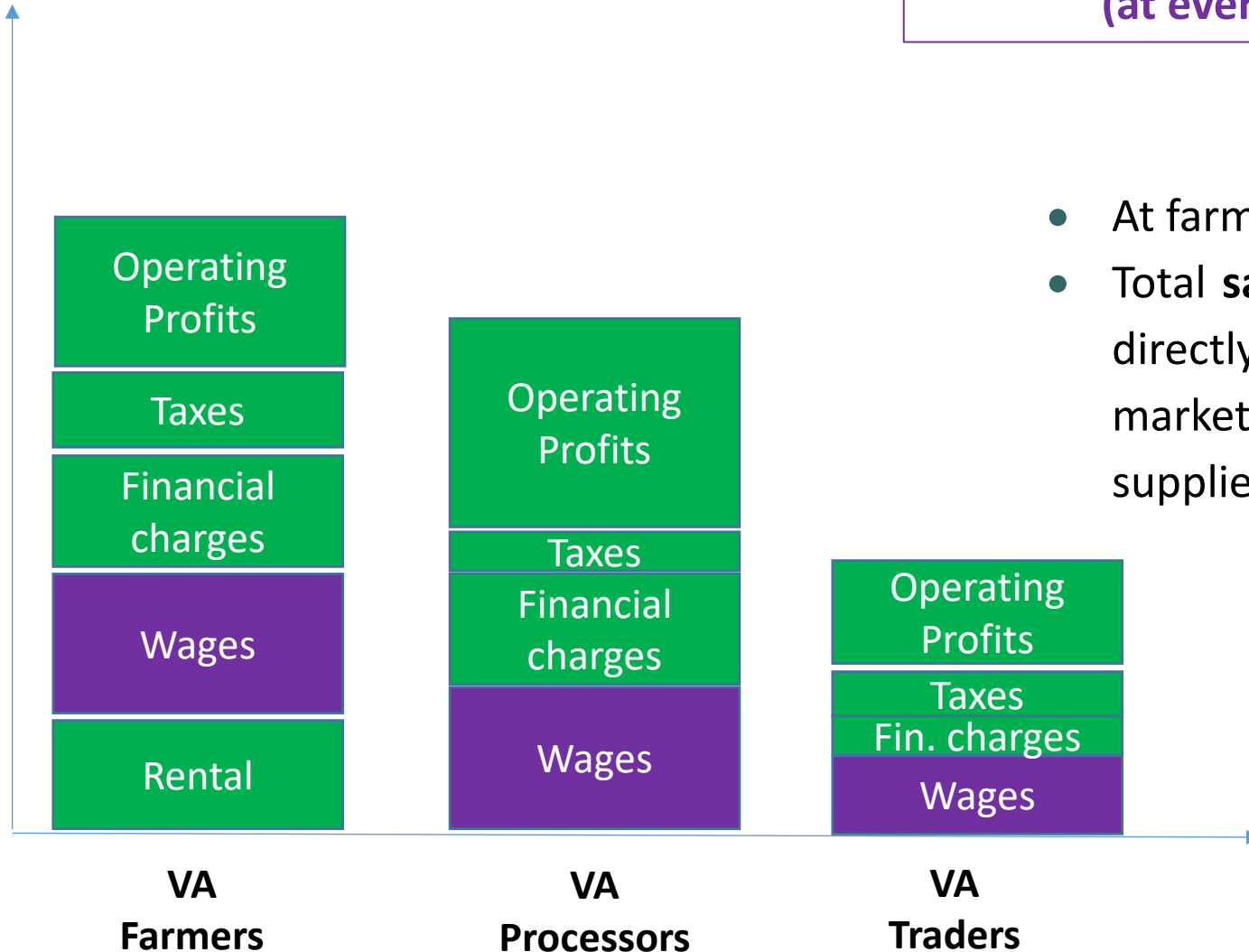
## CQ 2.1 : How is income distributed across actors of the value chain?



**Indicator:**  
**Total wages and salaries**  
**(at every stages, all activities, absolute and %)**



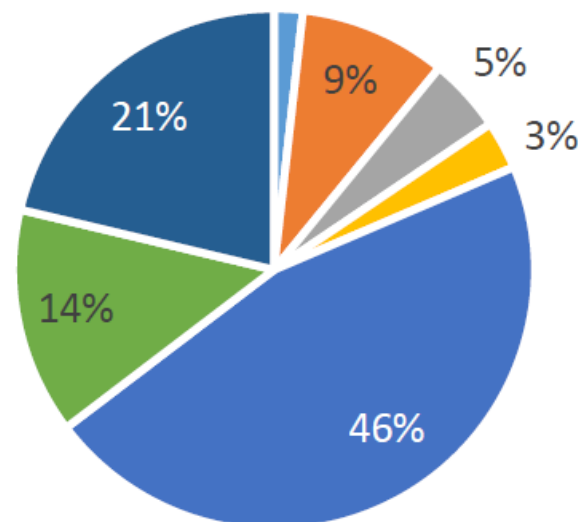
- At farm level: total **wages** of farm seasonal labourers
- Total **salaries** of individual businesses and companies directly involved in the VC **downstream** (processing, marketing, financial services...) and **upstream** (IC suppliers) activities



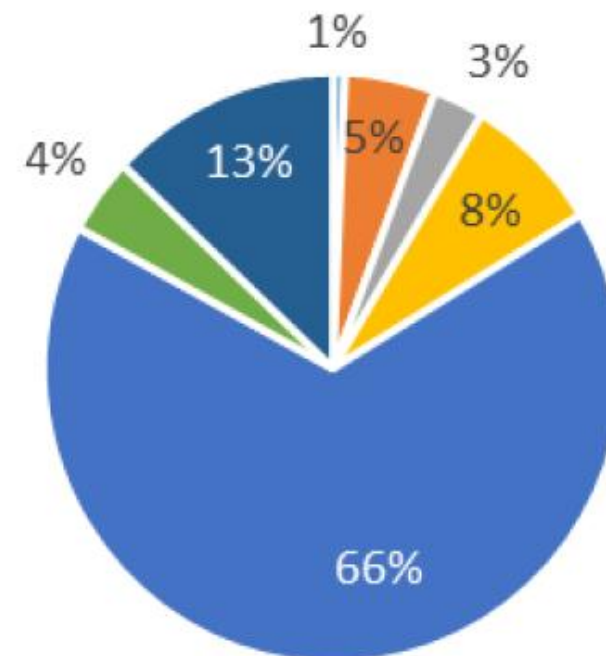
# Aquaculture Zambia

*Large farmers contribute consistently to jobs creation, they share 49% of the net operating surplus and 84% of the wages. In contrast, the contribution of traders to employment is limited. They share 35% of the net operating surplus and 4% of the wages.*

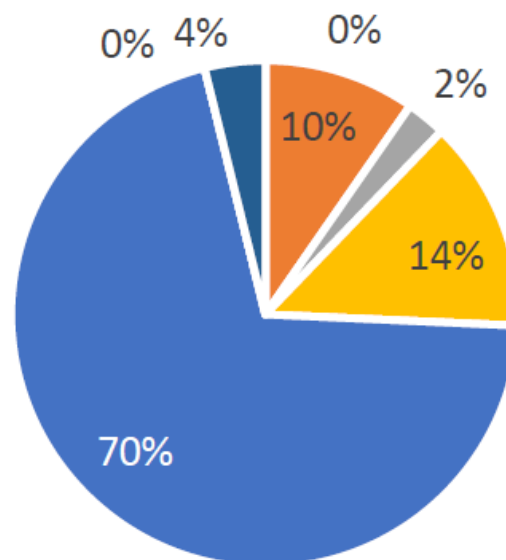
Net operating surplus 2%



Direct value added



Wages



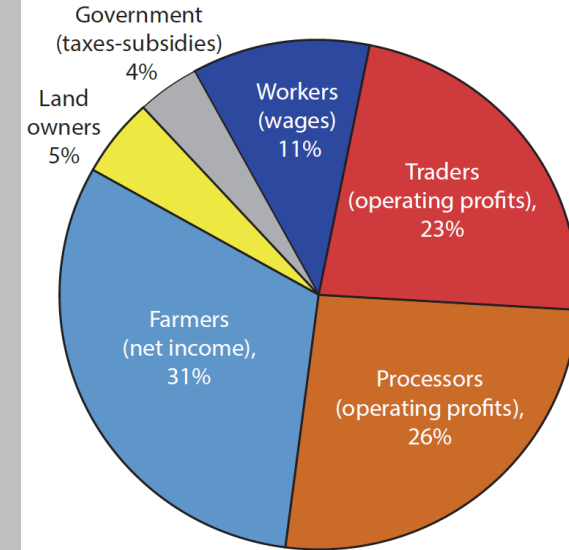
- Semi-subsistence pond farmers
- Small commercial pond farmers
- Medium pond farmers
- Large pond farmers
- Large cage farmers
- City ladies
- Large wholesalers



# Beef Zimbabwe



Income  
distribution  
to VC actors

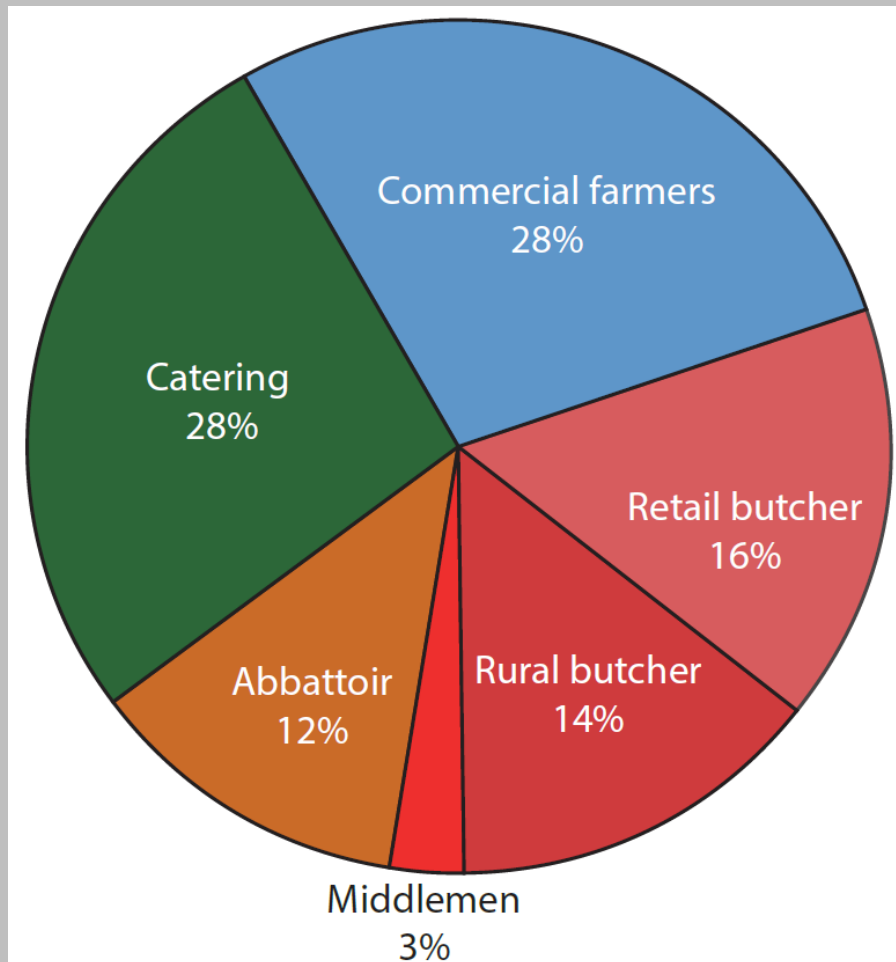


Wages (Workers)



*Wages and farmers' incomes account for 42% of the net income of the whole VC. This suggests a medium level of inclusiveness. Farmers retain 31% of the income created within the VC representing a high return on family labour across the different farming models.*

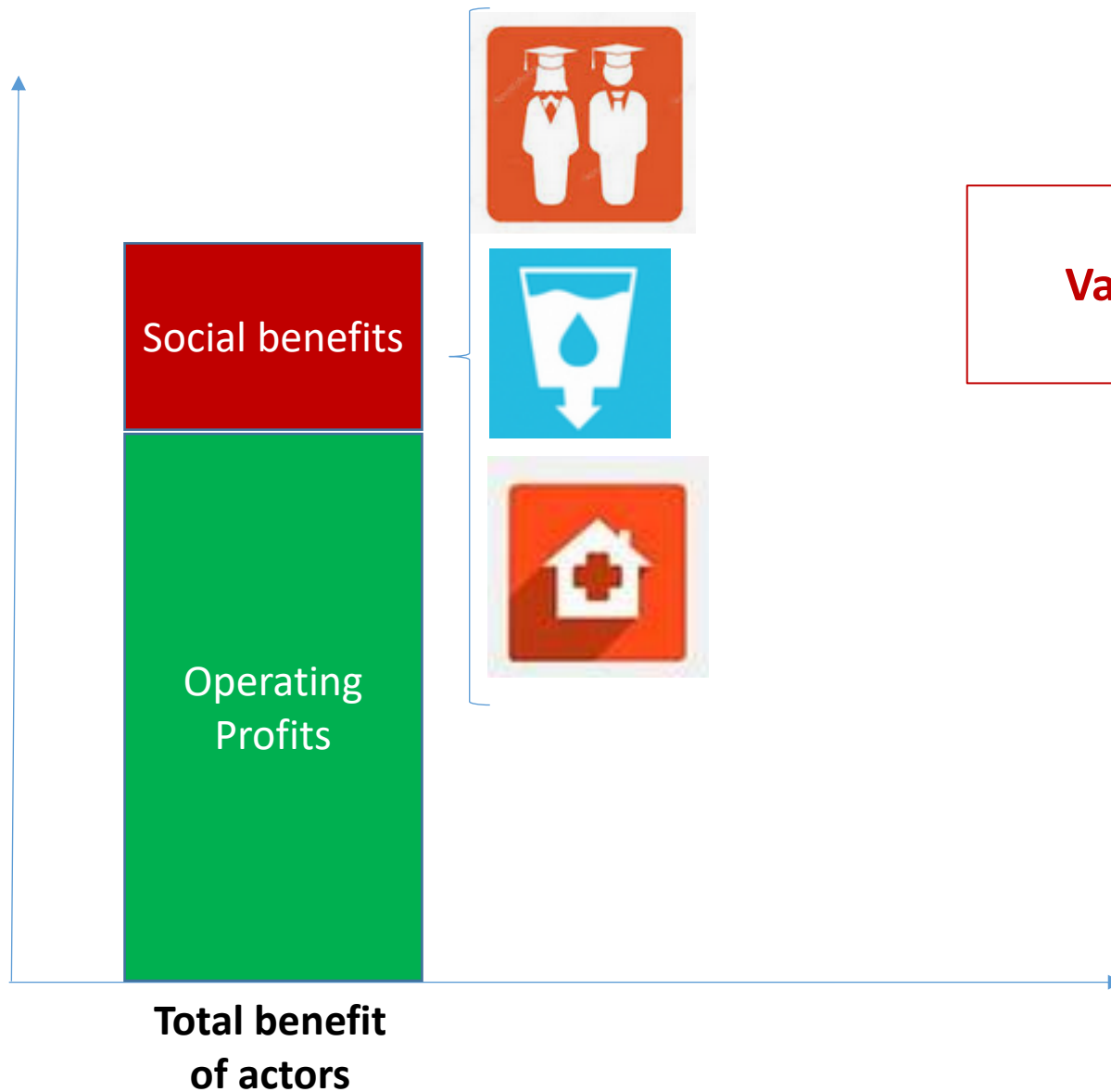
*The wages are relatively small in the VC (11%) showing that the structure of the farming systems have normalised around family, rather than external labour models. However, wages are significant at the level of commercial farms (28%) and catering establishments that include fast food chains, small restaurants and food outlets (also 28%) because the VC is important for the domestic consumption.*



Wages distribution at various stages of the VC



## CQ 2.1 : How is income distributed across actors of the value chain?

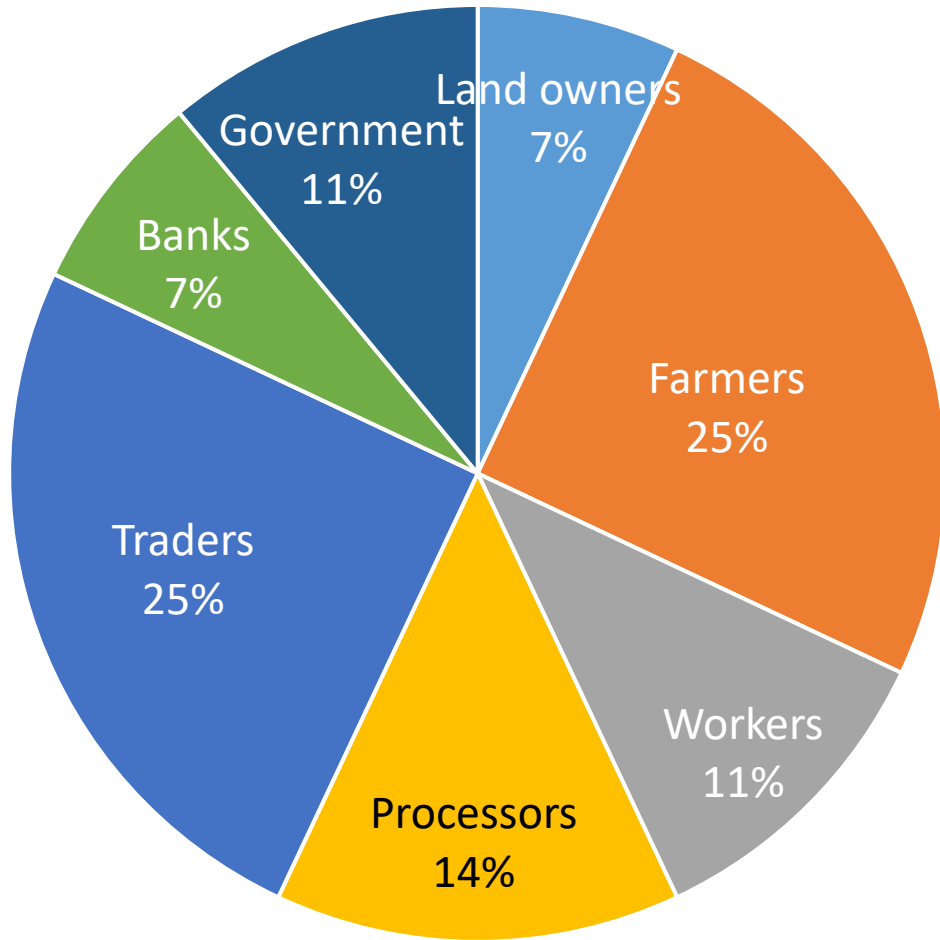


**Indicator:**  
**Value of social benefits of all kinds bestowed by VC operators (plantations, cooperatives, firms...)**

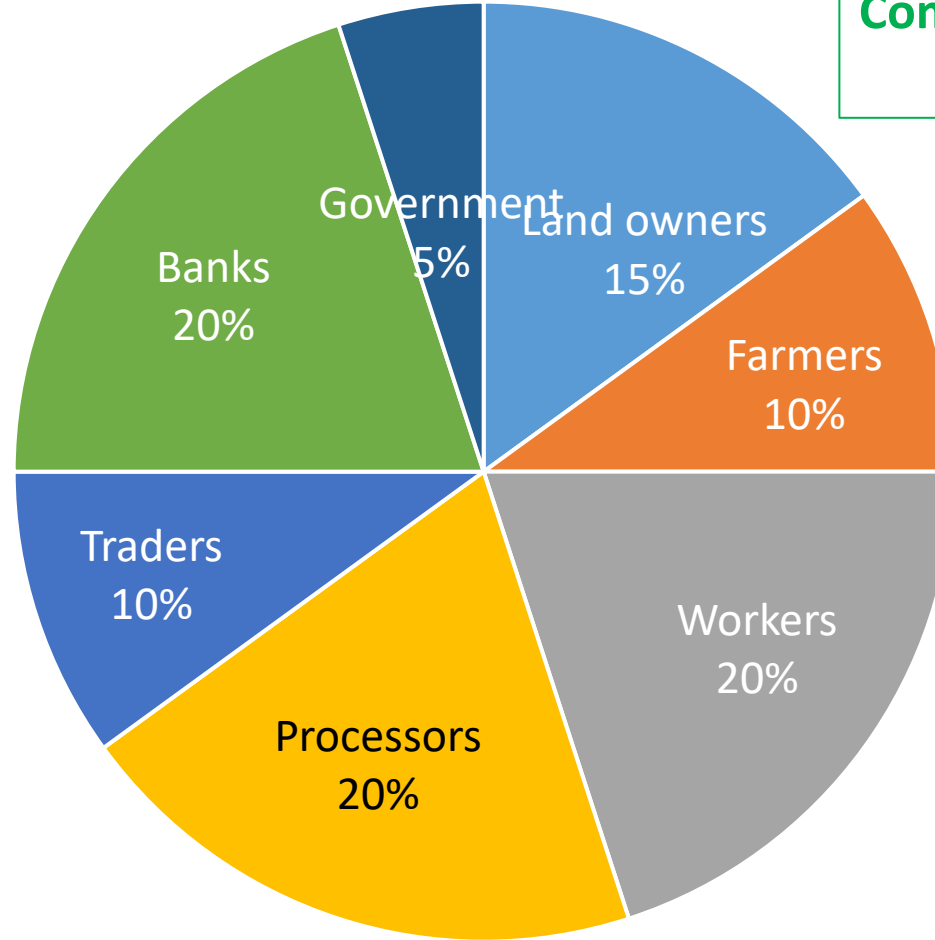
## CQ 2.1 : How is income distributed across actors of the value chain?



**Indicator:**  
**Comparison of sub-chain's  
income distribution**



Sub-chain A / with contract

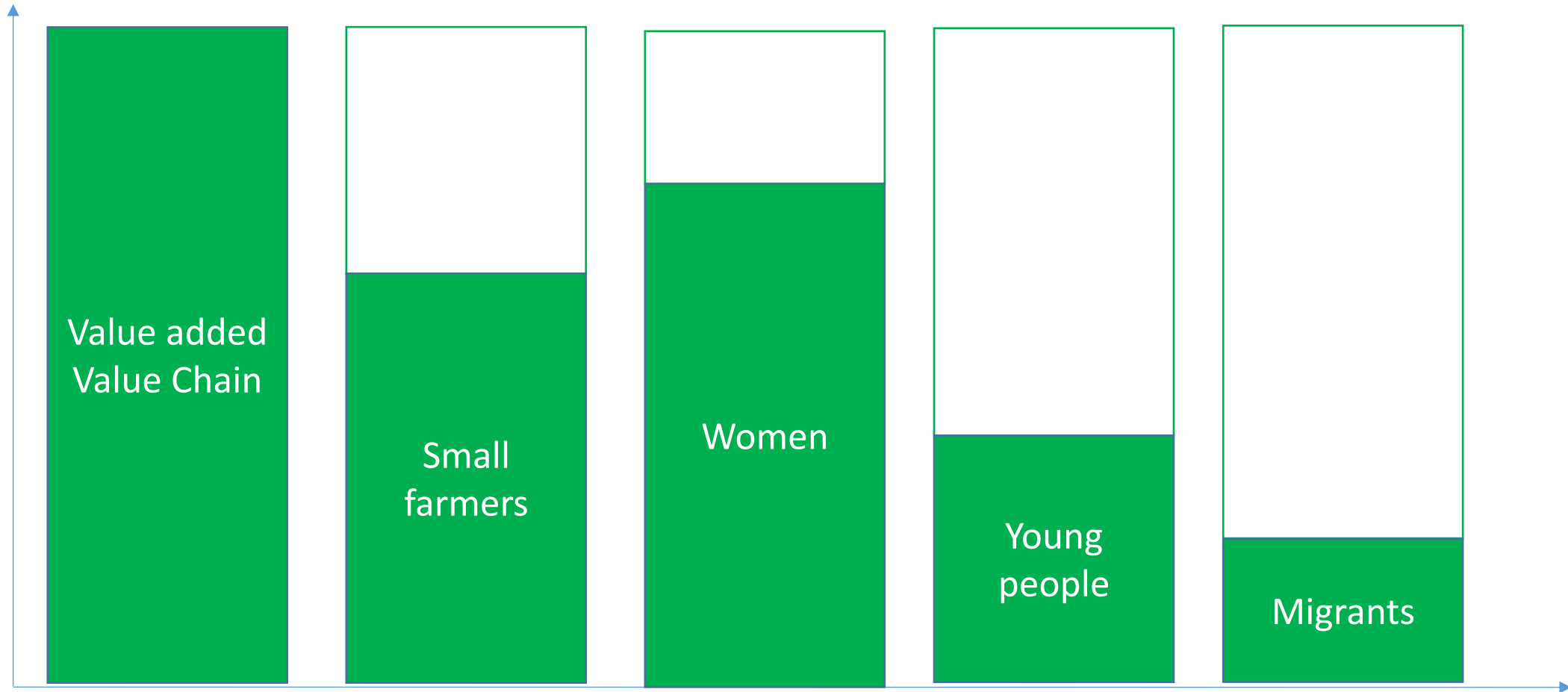


Sub-chain B / without contract

## CQ 2.1 : How is income distributed across actors of the value chain?



**Indicator:**  
**Total income accruing to marginalized and vulnerable groups**

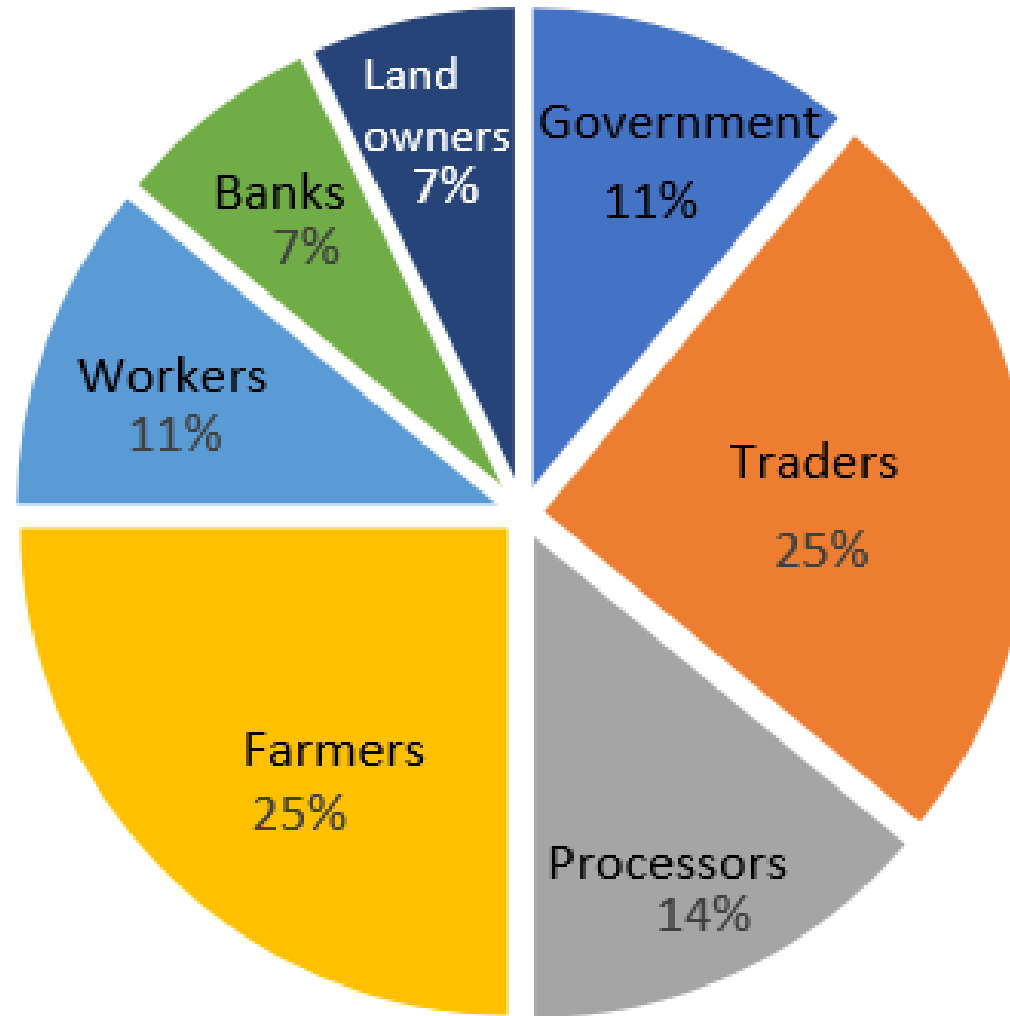


**New !**

## **Core Question 2.2: What is the impact of the governance systems on income distribution?**

**Indicators:** Income distribution among actors; Share of farm gate price in the final price (%); Income Gini Index.

## CQ 2.2: What is the impact of the governance systems on income distribution?



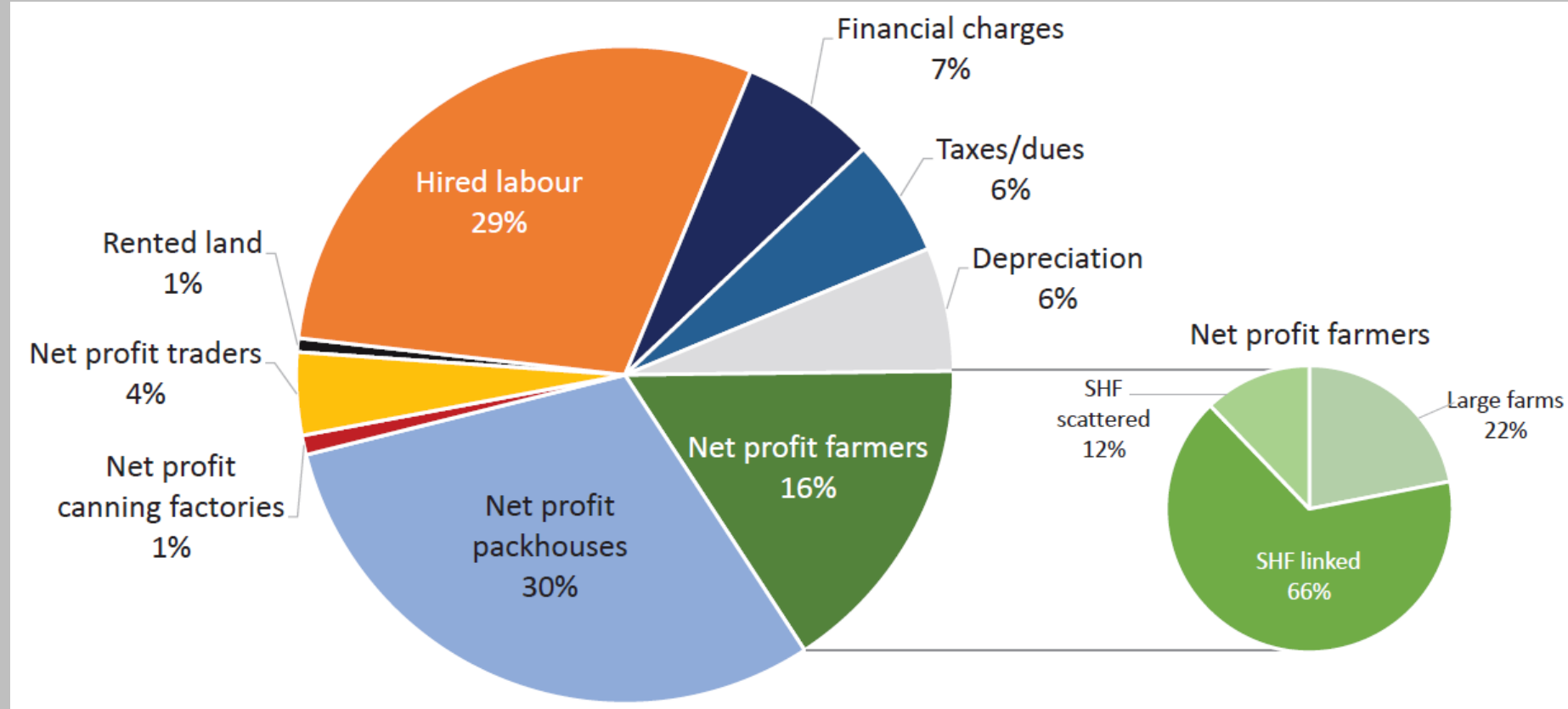
**Indicator:**  
**Income distribution**  
**among actors**



# Green Beans Kenya

*The two main parts of the VA are: (i) the net profit of packhouses and (i) the wages to hired labour both in packhouses and farms.*

*Even smallholder farmers employ hired workers for labour intensive activities. such as harvesting. It is large-scale producers and SHF with links to exporters that generate the highest value addition in the agricultural part of the VC.*

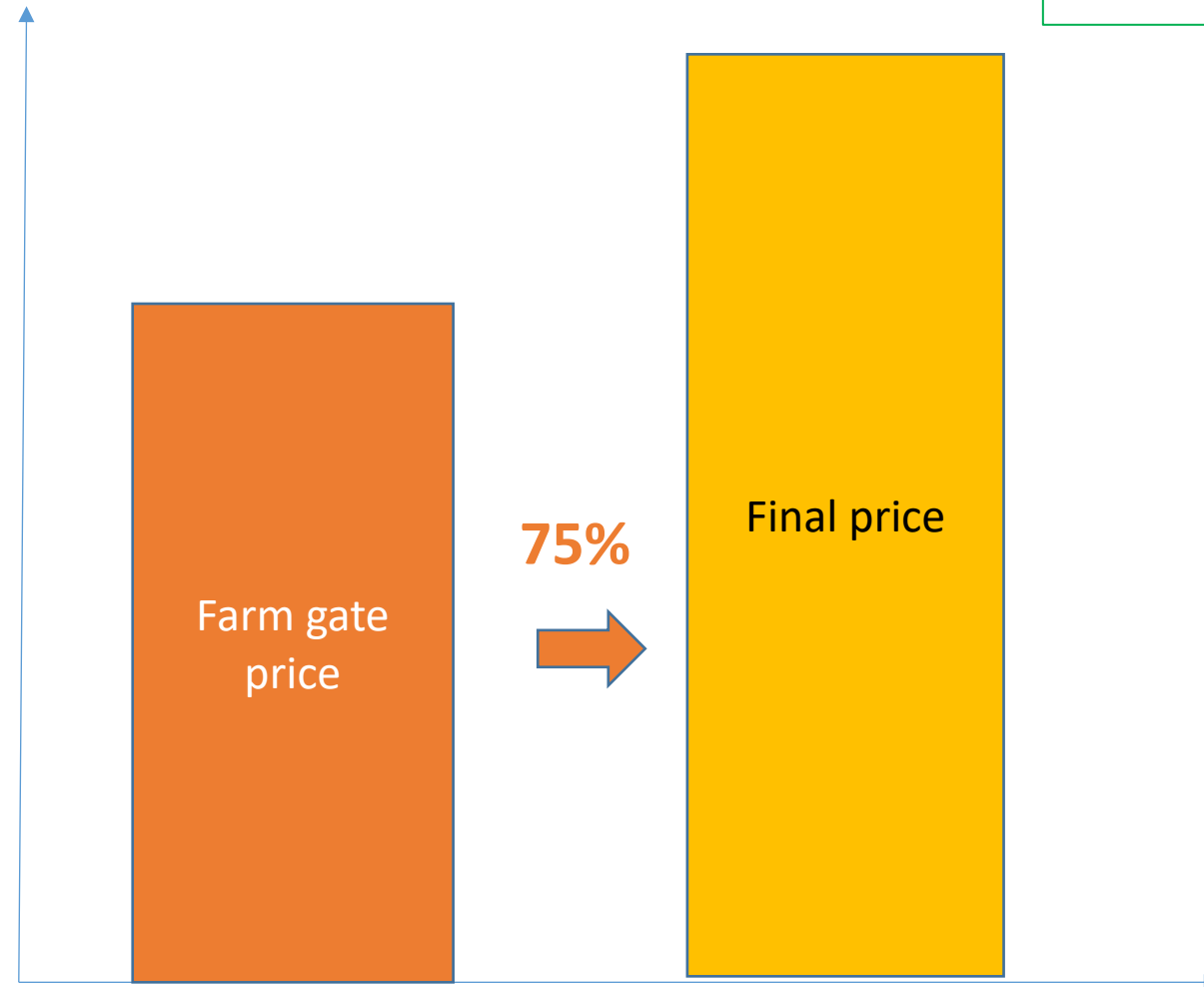


VA distribution

## CQ 2.2: What is the impact of the governance systems on income distribution?



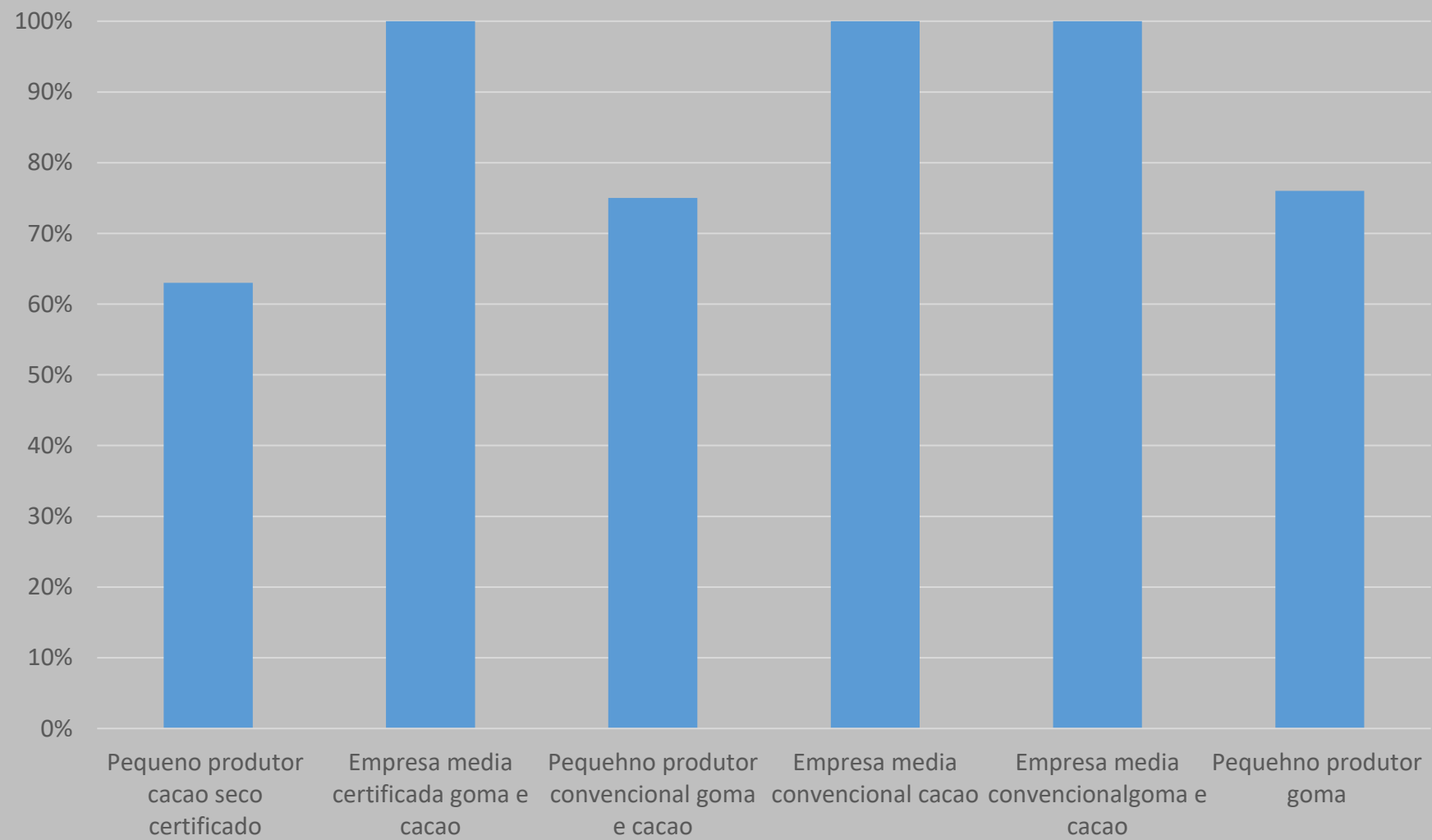
**Indicator:**  
**Share (%) of farm gate price in the  
final price inside the country**



# Cocoa Sao Tome



% do preço final no portão da fazenda

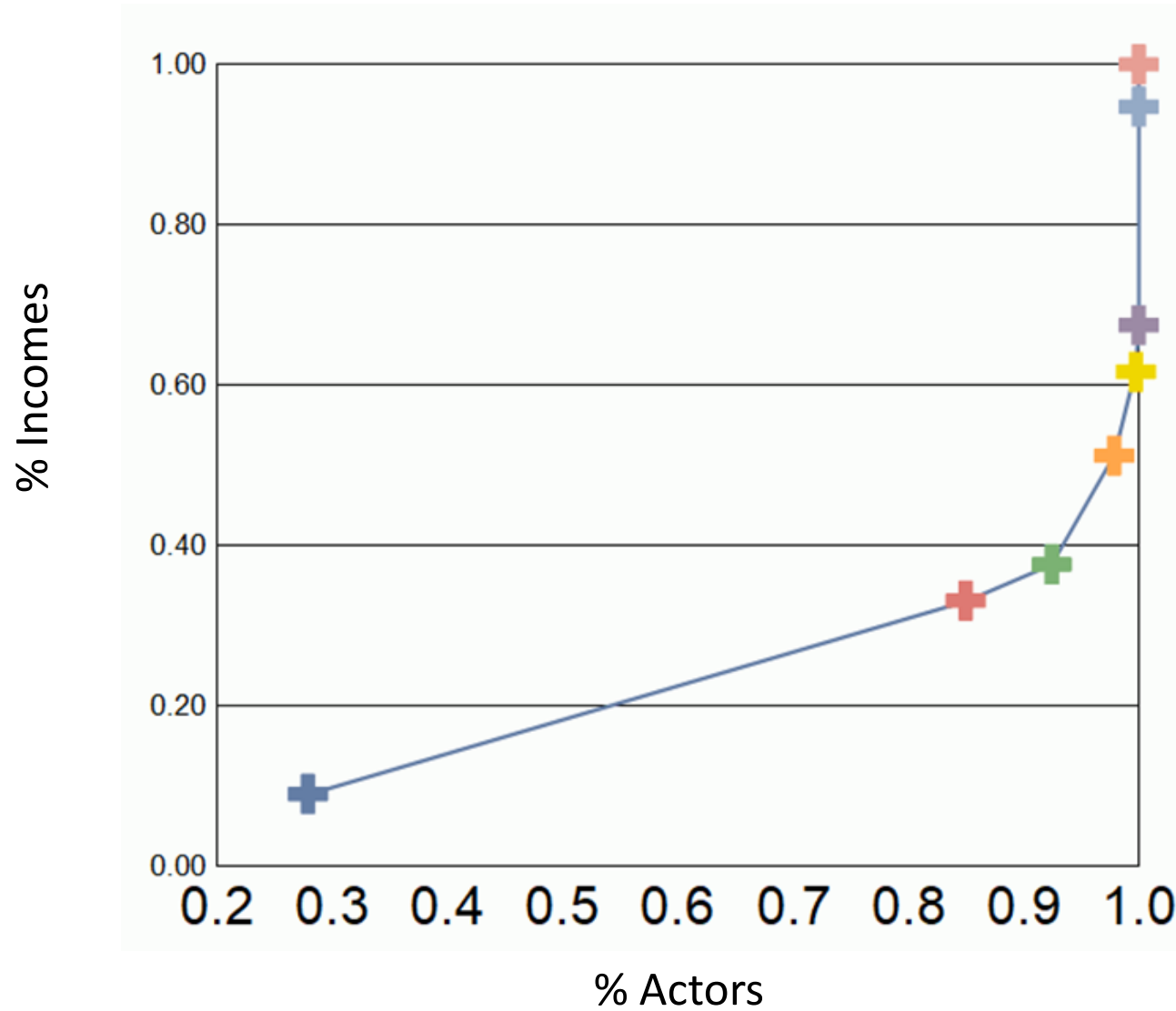


# Cocoa Papua New Guinea

*The very favourable distribution of cocoa revenues to smallholders is evidenced by a very high ratio - around 80% - between the delivered-in-store (DIS) purchase price to national producers and the Free-on-board (FOB) selling price in the international market.*



## CQ 2.2: What is the impact of the governance systems on income distribution?



**Indicator:**  
**Income Gini Index**

0.6212

0: Fair distribution

1: Totally inequalitarian

# Beef Swaziland



*The country has a long-standing income inequality even if the Gini index declined at a moderating rate to shrink from 0.61 index in 1994 to 0.52 in 2009 (World Bank, 2017). In a recent document provided by the Ministry of Agriculture, it was stated that the richest 19 percent of the population controls 56 percent of total income, while the poorest 19 percent controls only 4.3 percent (MOA, 2016).*

*Despite its valuable contribution to the GDP, the beef value chain does not escape to the overall country's situation characterized by a pronounced uneven income distribution. The tabulated Gini index for the Beef value chain is largely higher than 0.50 reaching 0.80 during the VCA4D investigation period.*

*Thus, poor households in livestock usually must seek alternative income sources and have low per capita incomes. One aspect of diversification, the presence of salaried income, has an especially dramatic effect on total income, but is an advantage enjoyed by relatively few households*

**New !**

## Core Question 2.3: How is employment distributed across the VC?

**Indicators:** **Number of jobs** (family, self- and formal employment) **at different VC stages** (permanent/temporary, skilled/unskilled...); **Employment of women;** **Employment of marginalized and vulnerable groups.**

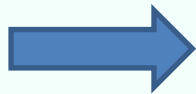
## CQ 2.3: How is employment distributed across the value chain?

### Jobs and self-employment



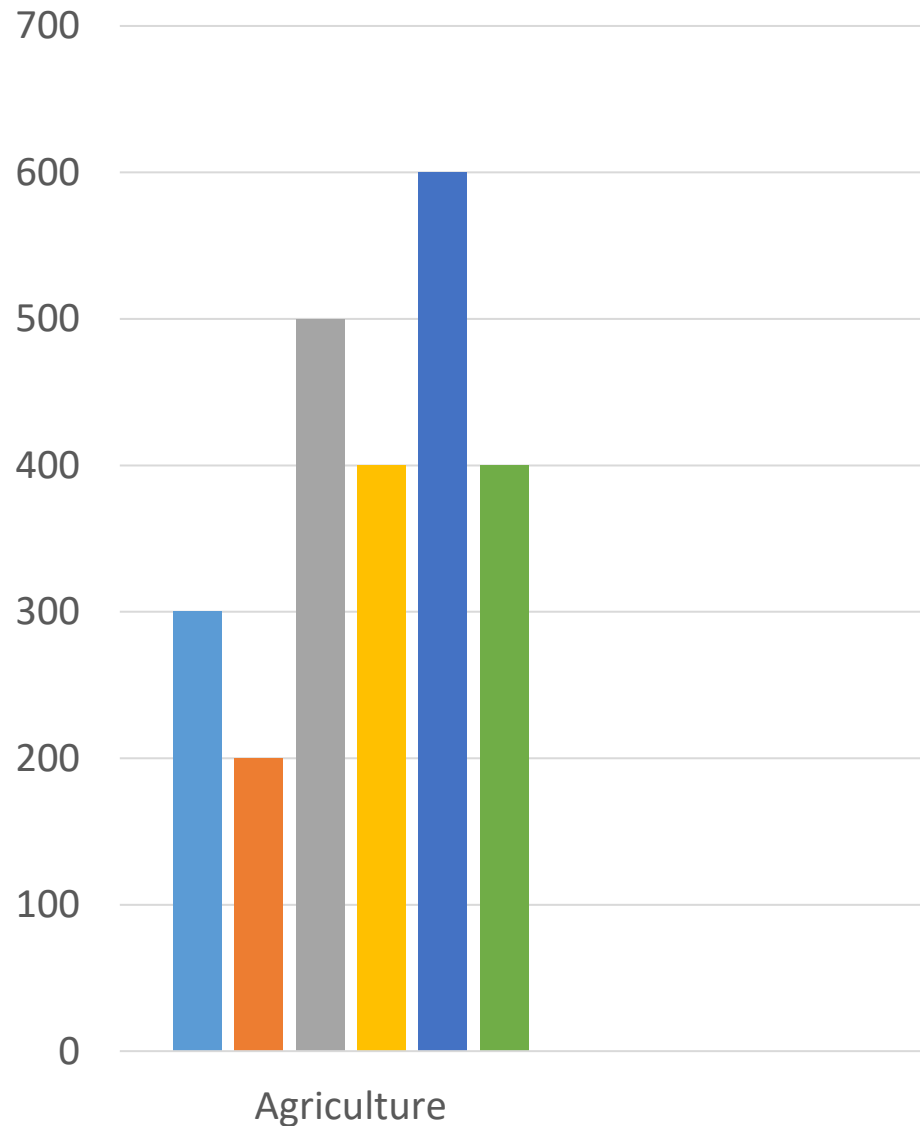
Expressed by the number of people involved and Full-Time Equivalents (FTE)

### Jobs



- **Full time and part-time occupation** at farms and family businesses (family workforce and seasonal labourers)
- **Employees of formal sector** enterprises upstream and downstream, and public services

## CQ 2.3: How is employment distributed across the value chain?



■ Self-employed men

■ Self-employed women

■ Permanent employees men

■ Permanent employees women

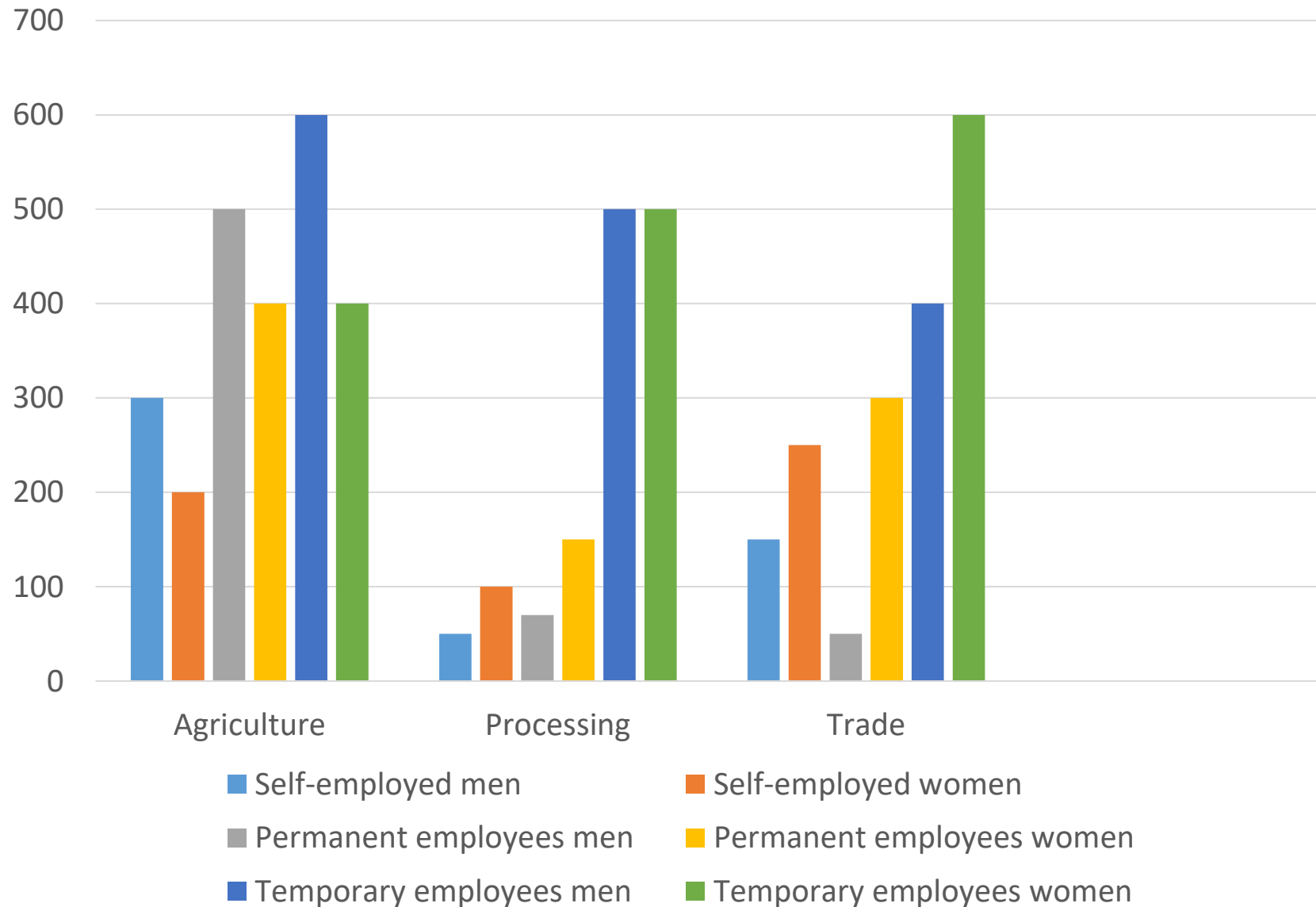
■ Temporary employees men

■ Temporary employees women

### Indicators:

- **Number of jobs (family, self and formal employment) at different VC stages (permanent/temporary, skilled/unskilled)**
- **Employment of women**

## CQ 2.3: How is employment distributed across the value chain?



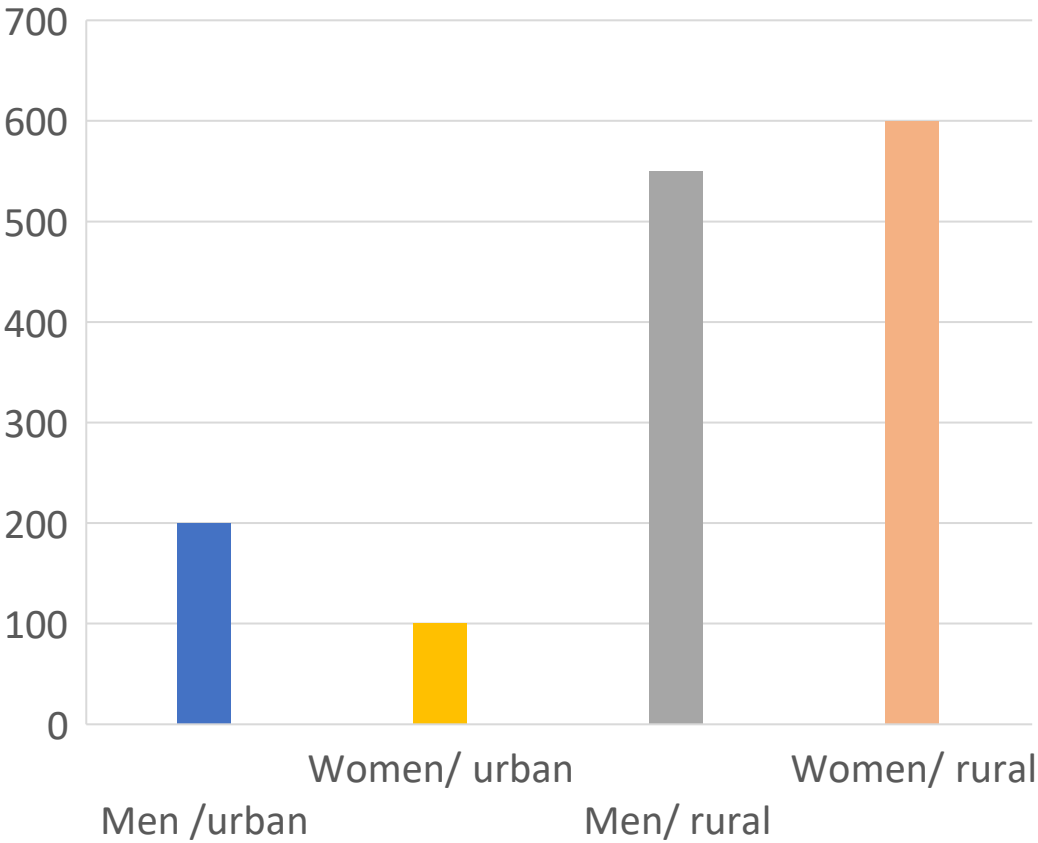
### Indicators:

- **Number of jobs (family, self and formal employment at different VC stages (permanent/temporary, skilled/unskilled))**
- **Employment of women**

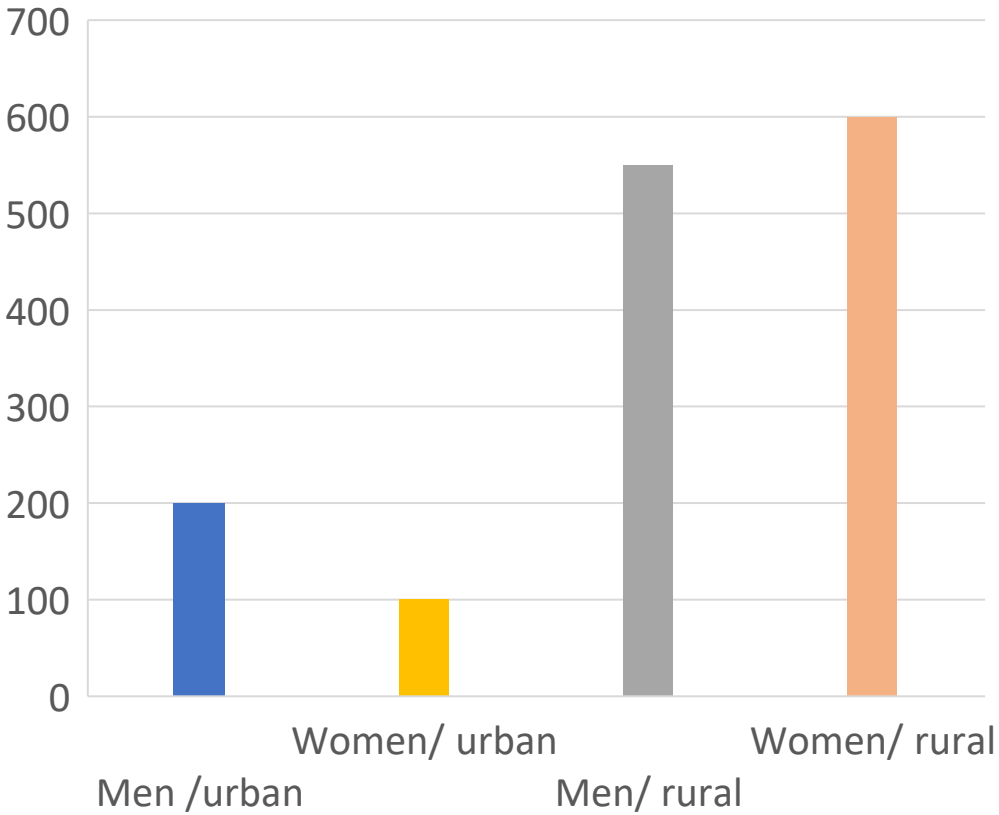
CQ 2.3: How is employment distributed across the value chain?

New !

Indicator:  
Employment of marginalized and vulnerable groups



Skilled jobs in Processing



Unskilled jobs in Processing

CQ 2.3: How is employment distributed across the value chain?



Comparison of sub-chain's employment distribution





## CQ 2.3: How is employment distributed across the value chain?

New !



Developed by the CIRAD and supported by the French Ministry of the Foreign Affairs and the European Union/VCA4D project



Version 3.0

The AFA software calculates the distribution of incomes and the number of jobs.

## CQ 2.3: How is employment distributed across the value chain?

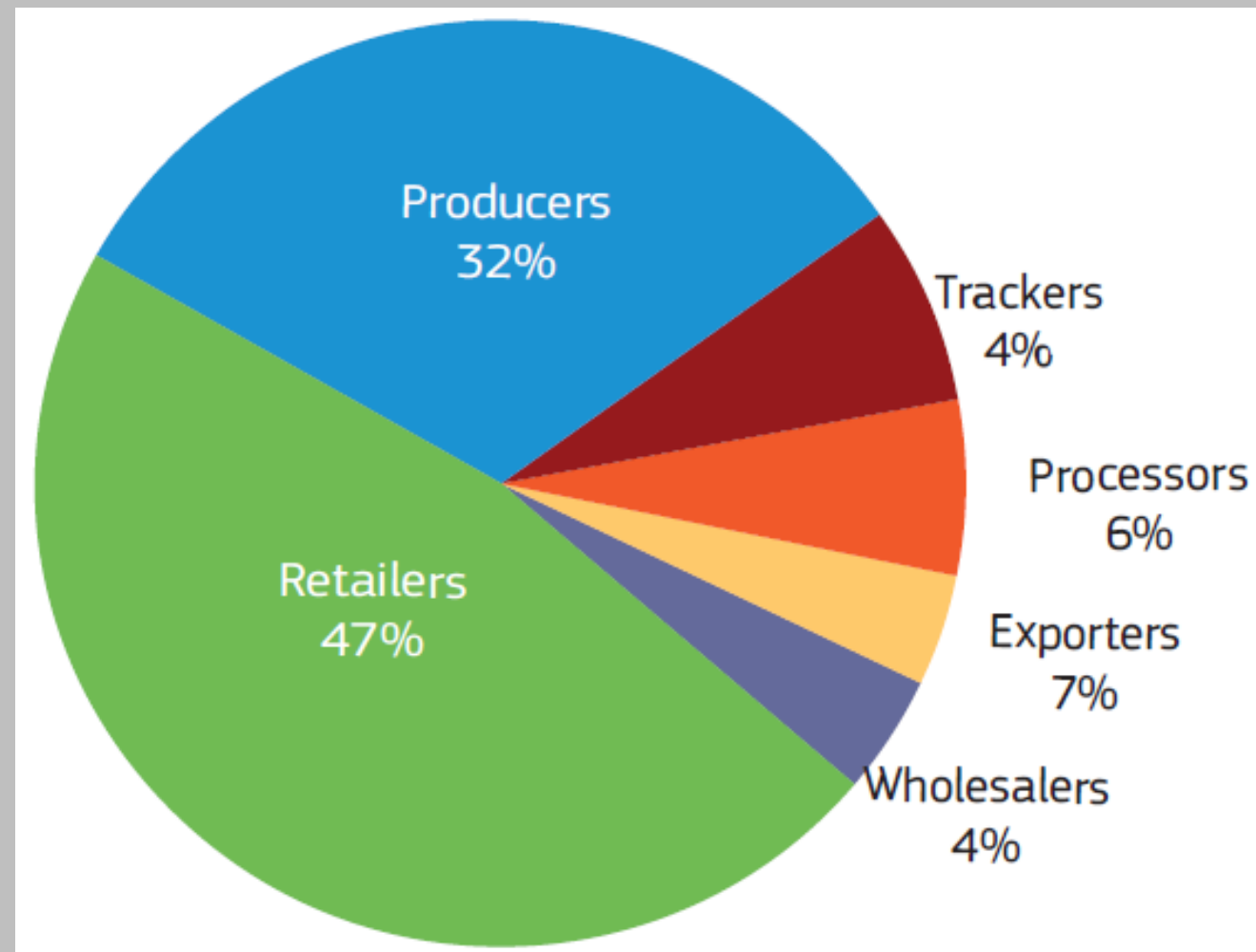
Value chain : 3 - Rice exemple version 3								Country : Africa		Curency : CFA		Year : 2007	
Coefficient Board								Parameter Dictionnary					
Acronym	Wage	TM	TF	PUM	PUF	PSM	PSF	Parameter	Value	Time Unit			
PRPL	50 000	0.50	0.50	0.00	0.00	0.00	0.00	Temporary Male	5.00	Day			
PPRI	5 000	0.70	0.30	0.00	0.00	0.00	0.00	Temporary Female	3.00	D			
COLL	1 000	1.00	0.00	0.00	0.00	0.00	0.00	Permanent Unskilled Male	15.00	Day			
GRPD	295	0.30	0.00	0.70	0.00	0.00	0.00	Permanent Unskilled Female	10.00	D			
DECO	1 151	0.50	0.00	0.20	0.00	0.30	0.00	Permanent Skilled Male	25.00	D			
GRR1	135	0.30	0.00	0.70	0.00	0.00	0.00	Permanent Skilled female	20.00	D			
GRR2	45	0.30	0.00	0.70	0.00	0.00	0.00						
IMPO	40	0.10	0.00	0.50	0.00	0.40	0.00						
SUPE	356	0.20	0.30	0.20	0.00	0.30	0.00						
DETA	0	0.00	0.00	0.00	0.00	0.00	0.00						
CBRAN	0	0.00	0.00	0.00	0.00	0.00	0.00						
	58 021	3.90	1.10	3.00	0.00	1.00	0.00						
Absolute Values Board													
Acronym	Temporary Male	Temporary Female	Permanent Unskilled Male	Permanent Unskilled Female	Permanent Skilled Male	Permanent Skilled Female	Total Temporary	Total Permanent Unskilled	Total Permanent Skilled	Total Male	Total Female		
PRPL	25 000	25 000	0	0	0	0	50 000	0	0	25 000	25 000		
PPRI	3 500	1 500	0	0	0	0	5 000	0	0	3 500	1 500		
COLL	1 000	0	0	0	0	0	1 000	0	0	1 000	0		
GRPD	89	0	207	0	0	0	89	207	0	295	0		
DECO	575	0	230	0	345	0	575	230	345	1 151	0		
GRR1	41	0	95	0	0	0	41	95	0	135	0		
GRR2	14	0	32	0	0	0	14	32	0	45	0		
IMPO	4	0	20	0	16	0	4	20	16	40	0		
SUPE	71	107	71	0	107	0	178	71	107	249	107		
DETA	0	0	0	0	0	0	0	0	0	0	0		
CBRAN	0	0	0	0	0	0	0	0	0	0	0		
	30 293	26 607	654	0	468	0	56 900	654	468	31 414	26 607		



# Mango Burkina

*The VC is a provider of employment. Its activities employ around 28,000 people: 21,000 as entrepreneurs or similar (farmers, trackers, retailers, etc.), about 350 in permanent jobs in processing and packaging for export of fresh mango, and 6-7,000 in seasonal jobs throughout the chain.*

*The seasonal marketing of fresh mango in the local market also supports nearly 10,000 retailers. The total salaries across the chain amount to FCFA 1.2 billion.*



Distribution of direct employment: number of people working across the whole VC (part of the year)

# Indicator table to be inserted at the end of the inclusiveness analysis

<b>Framing Question 2: Is this economic growth inclusive?</b> <i>(To be completed with Social Analysis results)</i>		INDICATORS	RESULTS IN THE STUDY
CQ2.1	How is income distributed across actors of the VC?	Disaggregated VA	
		Total farm income	
		Total wages and salaries	
		Total income accruing to marginalized and vulnerable groups.	
CQ2.2	What is the impact of the governance systems on income distribution?	Income distribution	
		% final price at farm gate	
CQ2.3	How is employment distributed across the VC?	Number of jobs and self-employment	
		Employment of women	