



REPUBLIC OF UGANDA

**MAAIF**

Ministry of Agriculture,  
Animal Industry and Fisheries



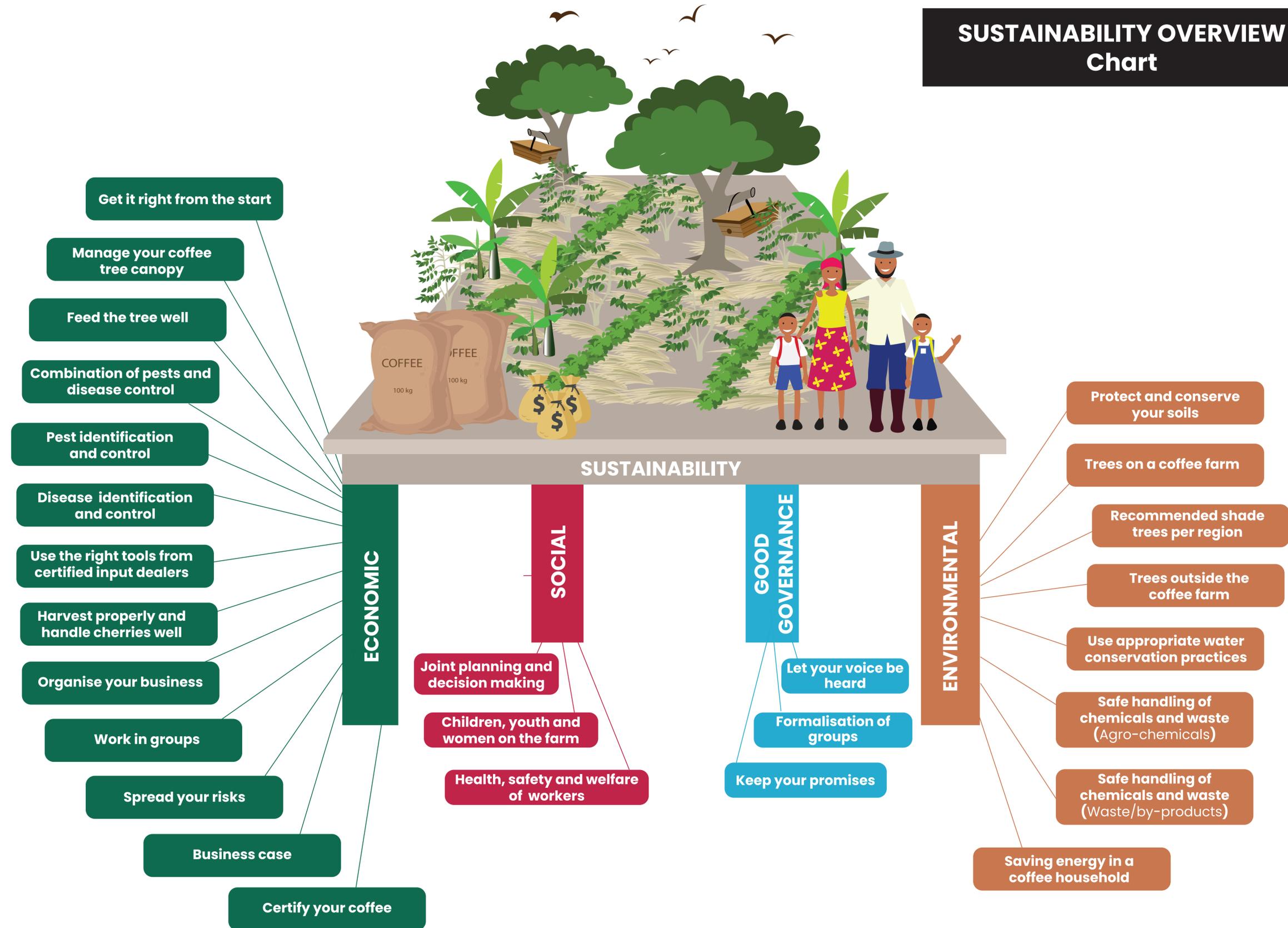
**Uganda Coffee Development Authority**

# The Uganda Sustainable Coffee Toolkit Charts

**UCP**  
UGANDA COFFEE  
PLATFORM

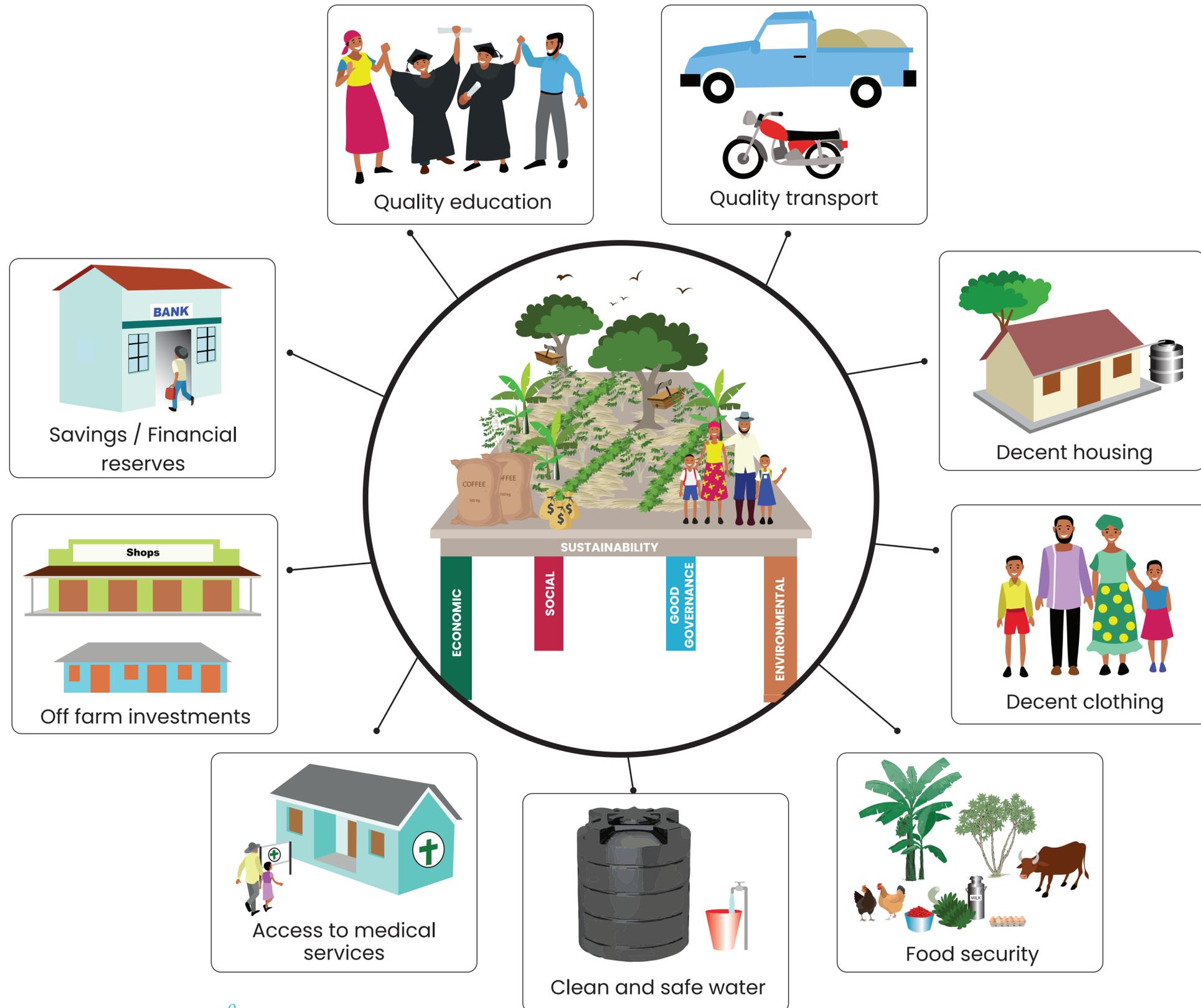
# SUSTAINABILITY OVERVIEW

## SUSTAINABILITY OVERVIEW Chart



# SUSTAINABILITY COMPLIANCE BENEFITS

## SUSTAINABILITY COMPLIANCE BENEFITS Chart



**01**

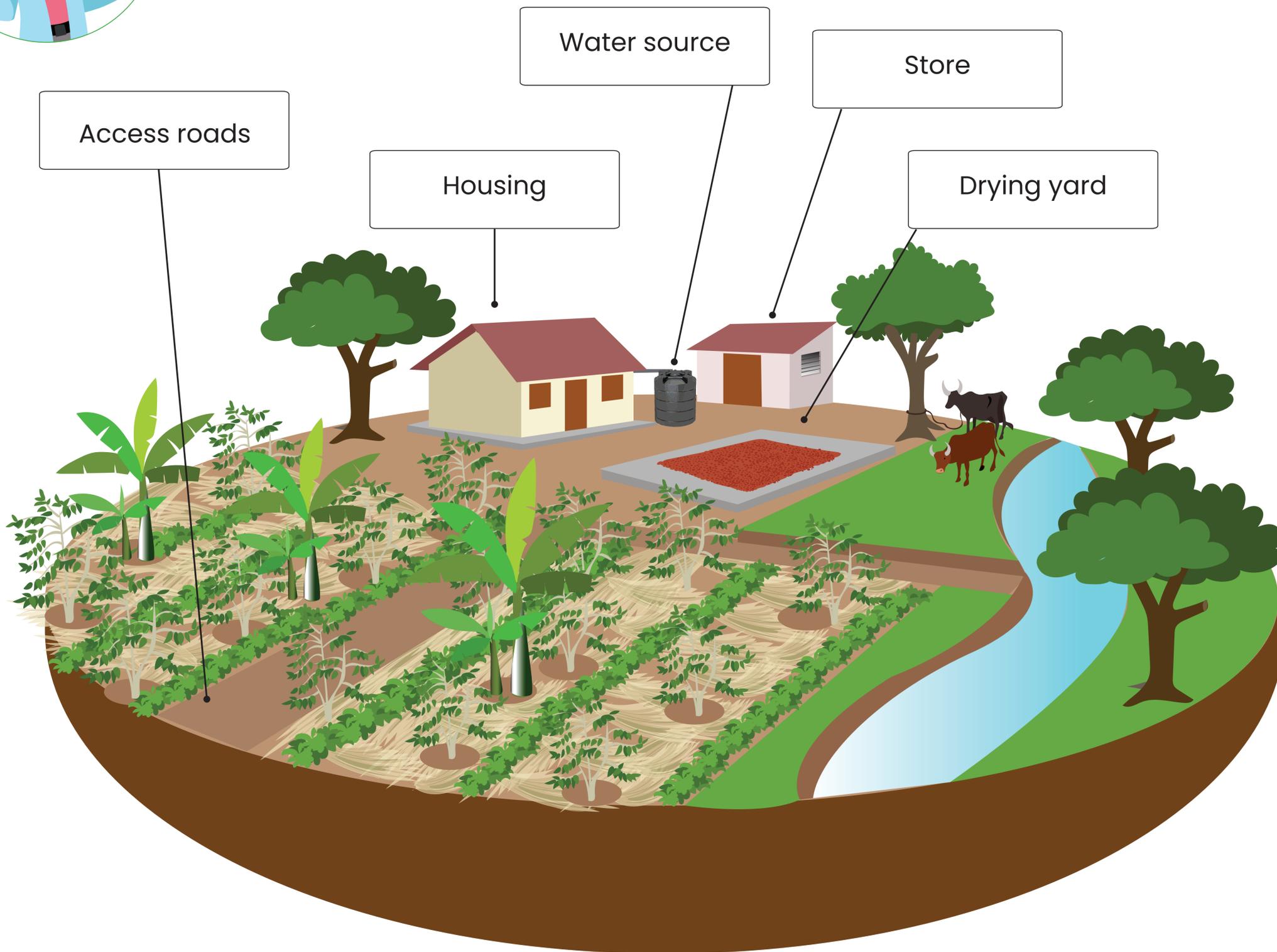
**ECONOMIC  
SUSTAINABILITY**



**Get it right from the start**

**ECONOMIC SUSTAINABILITY**  
Chart 1a

**Farm Planning**

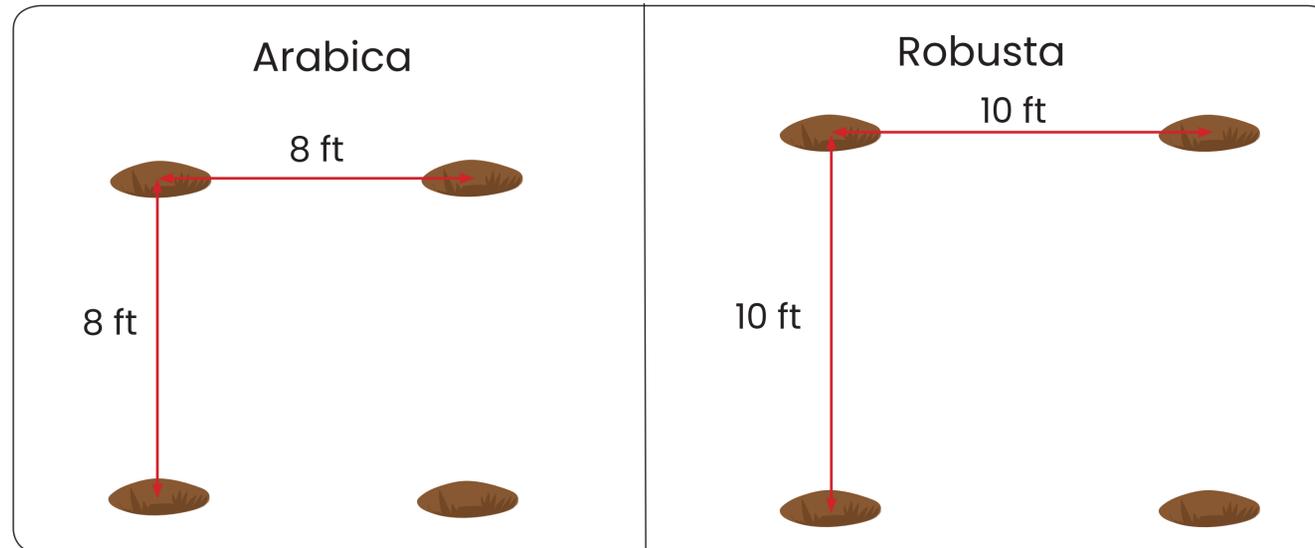




# Get it right from the start

## ECONOMIC SUSTAINABILITY Chart 1b

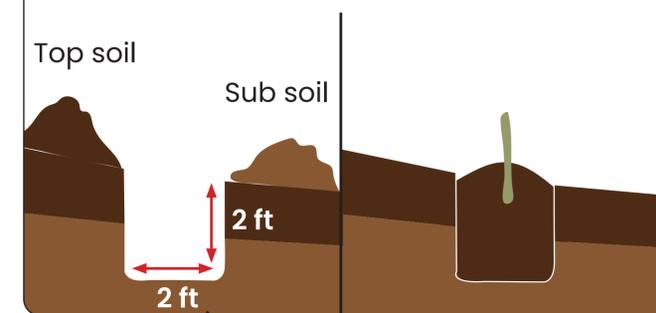
### Recommended spacing



### Recommended seedling varieties etc.

Arabica	SL 14, SL28, KP423 and KPI62
Robusta	KR 1 to KR 10

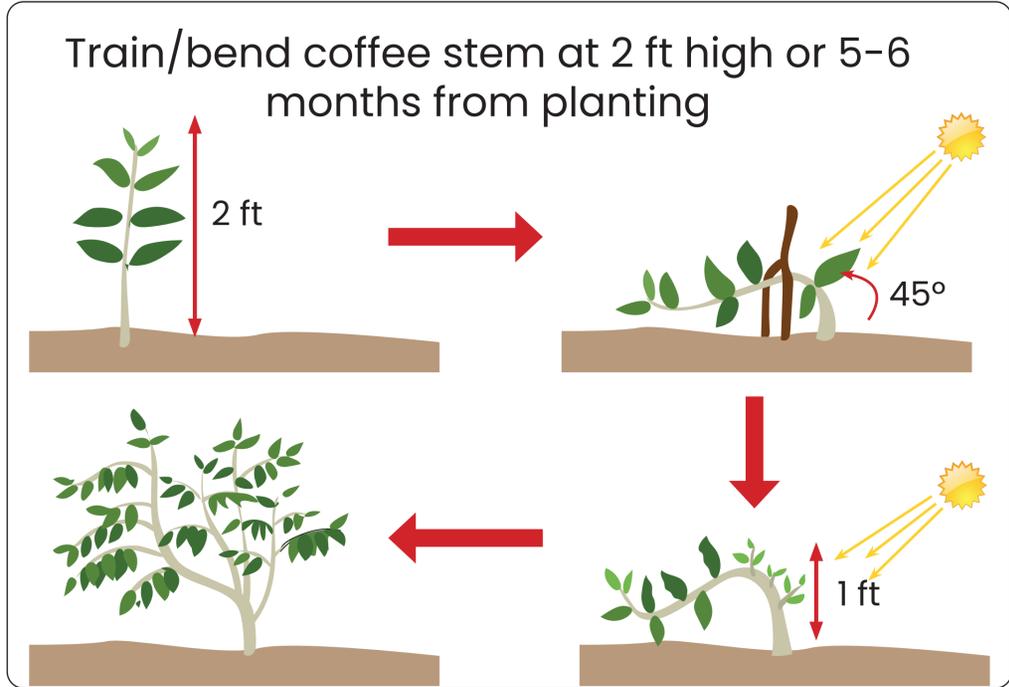
### Prepare the hole



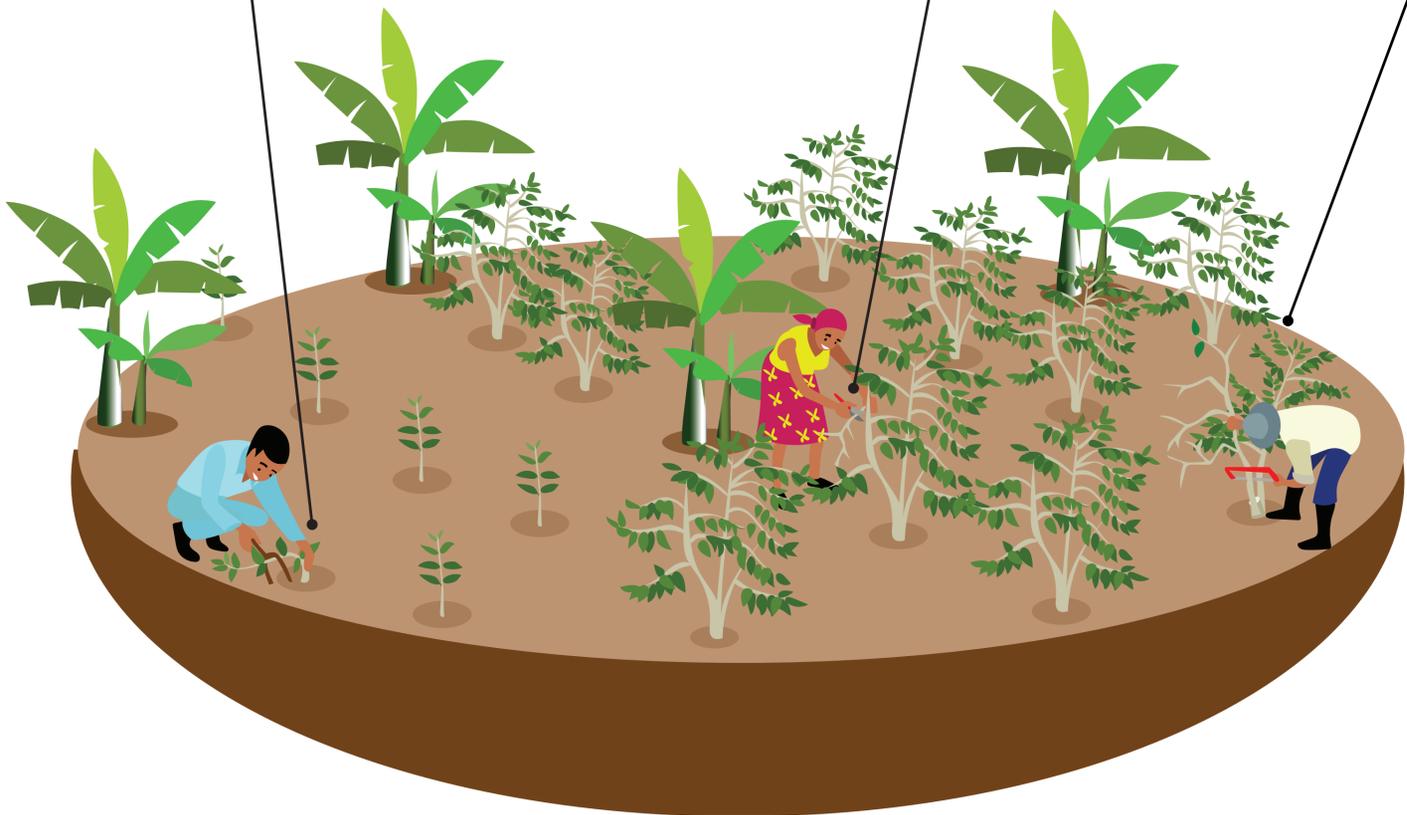
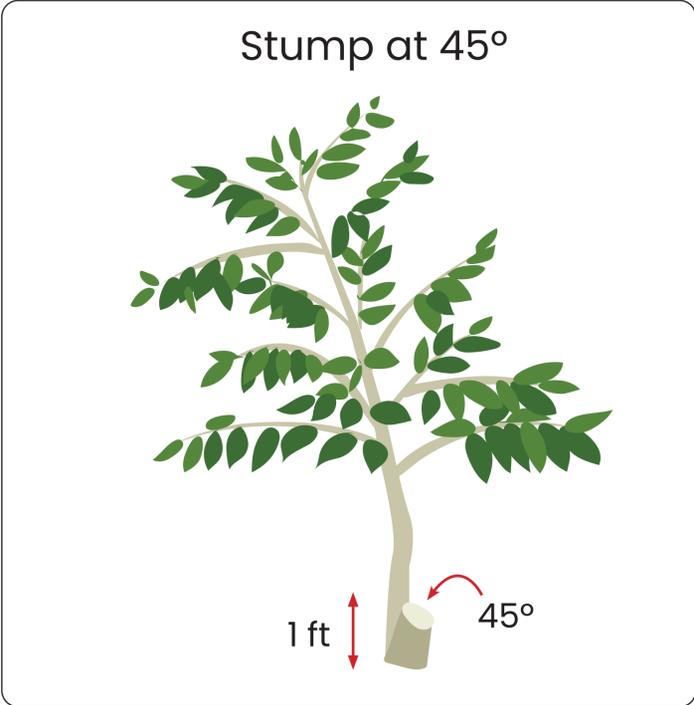


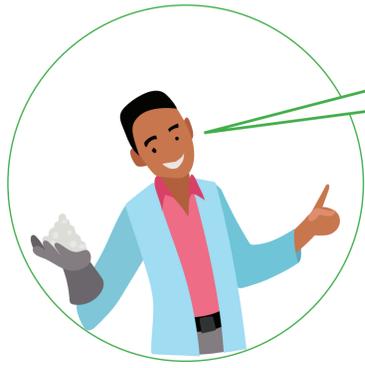
# Manage your coffee tree canopy

## ECONOMIC SUSTAINABILITY Chart 2



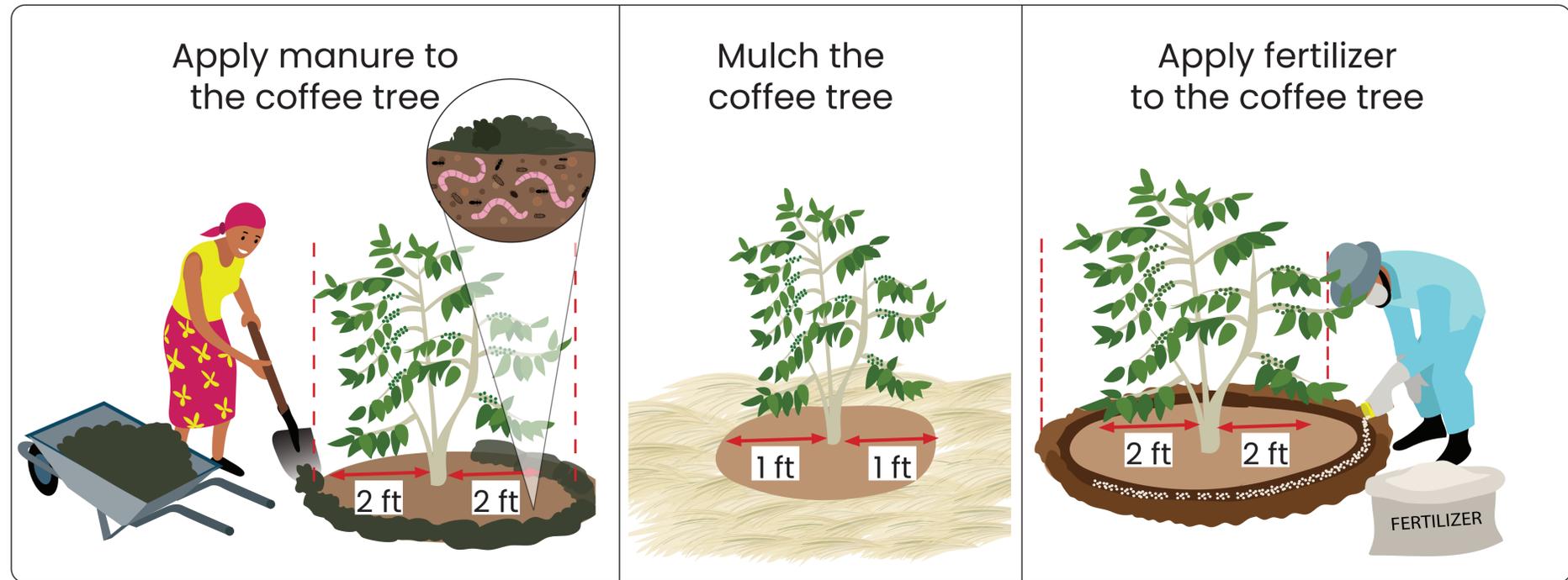
Use secateurs to prune





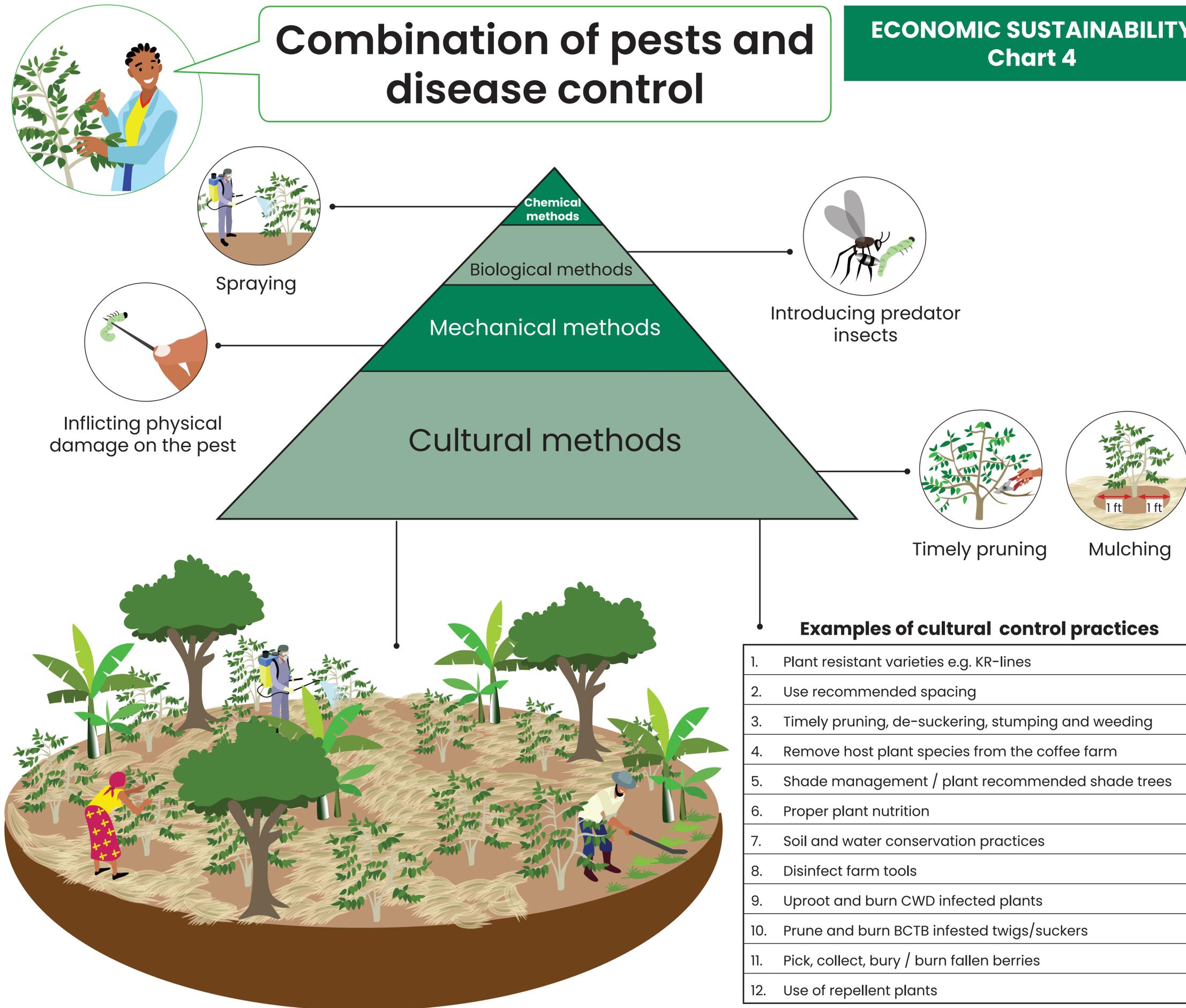
# Feed the tree well

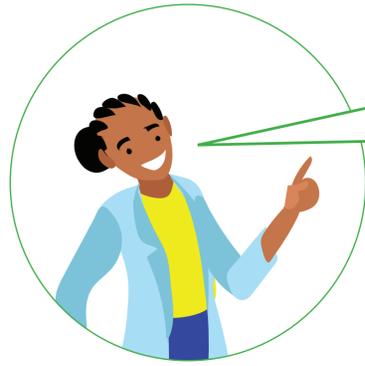
## ECONOMIC SUSTAINABILITY Chart 3



# Combination of pests and disease control

**ECONOMIC SUSTAINABILITY**  
Chart 4

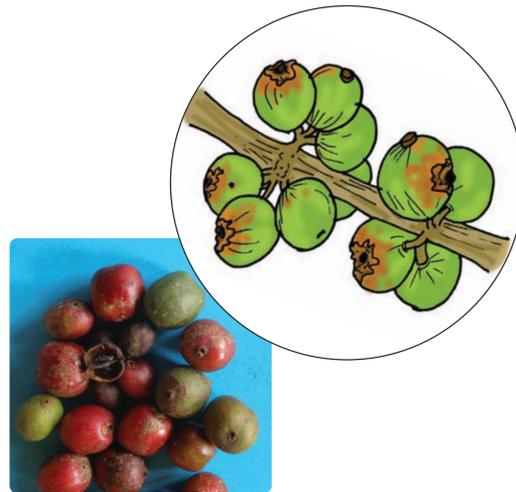
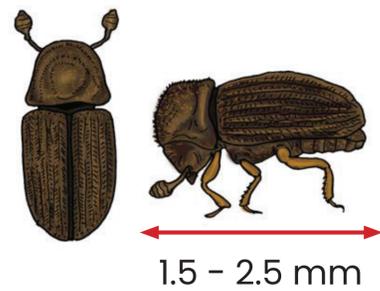




# Pest identification and control

## ECONOMIC SUSTAINABILITY Chart 5a

### Coffee Berry Borer – Arabica and Robusta

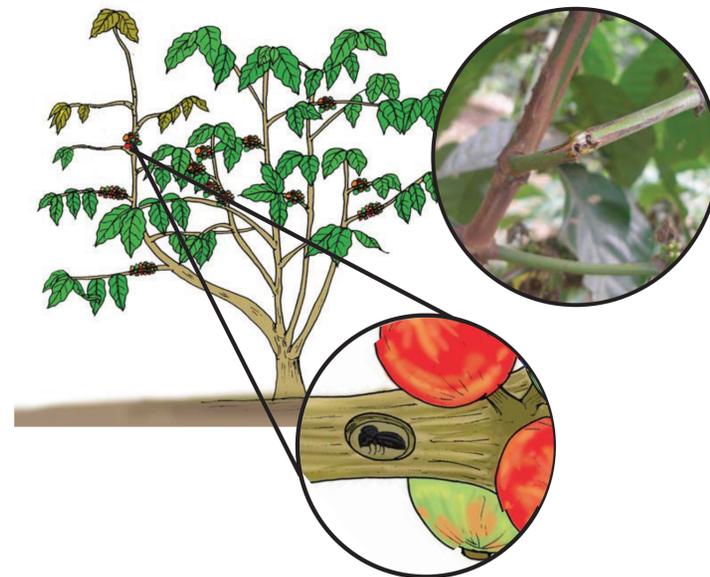
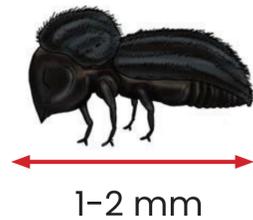


### Control

Collect all fallen or old remaining cherries on the tree after harvest and bury or burn them



### Black Coffee Twig Borer – Robusta



### Control

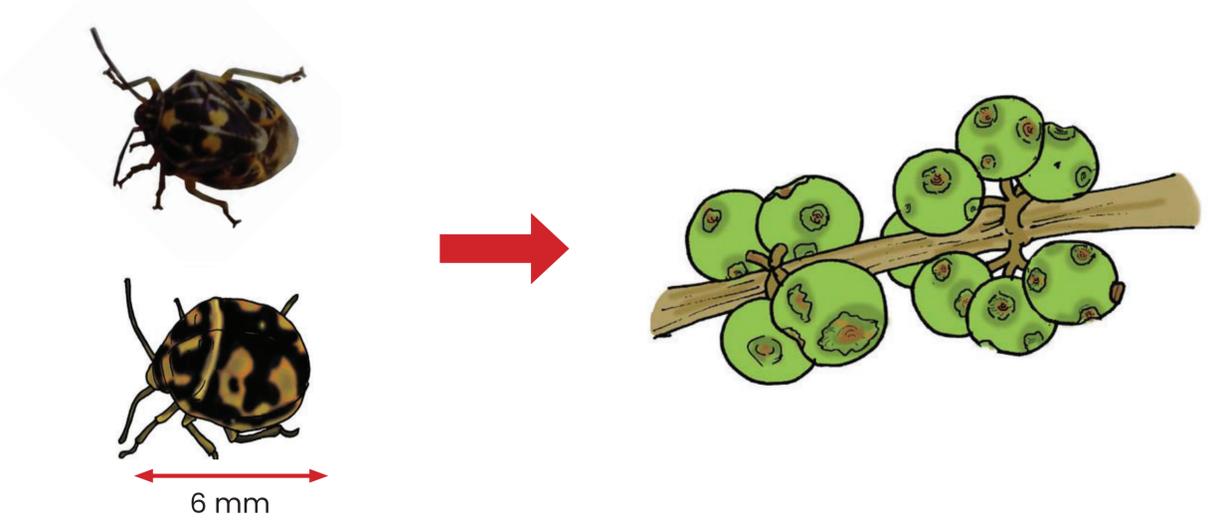
Prune the affected twigs and burn them





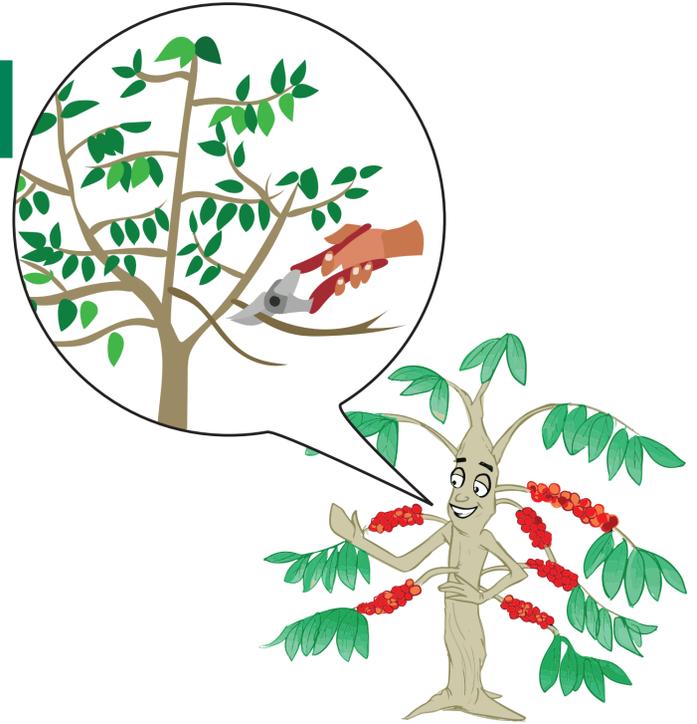
# Pest identification and control

## Antestia Bugs - Arabica



### Control

Prune and manage the tree shade



## Mealybugs, Aphids, Scales - Robusta and Arabica

Green Scales



Leaf Mealy Bugs

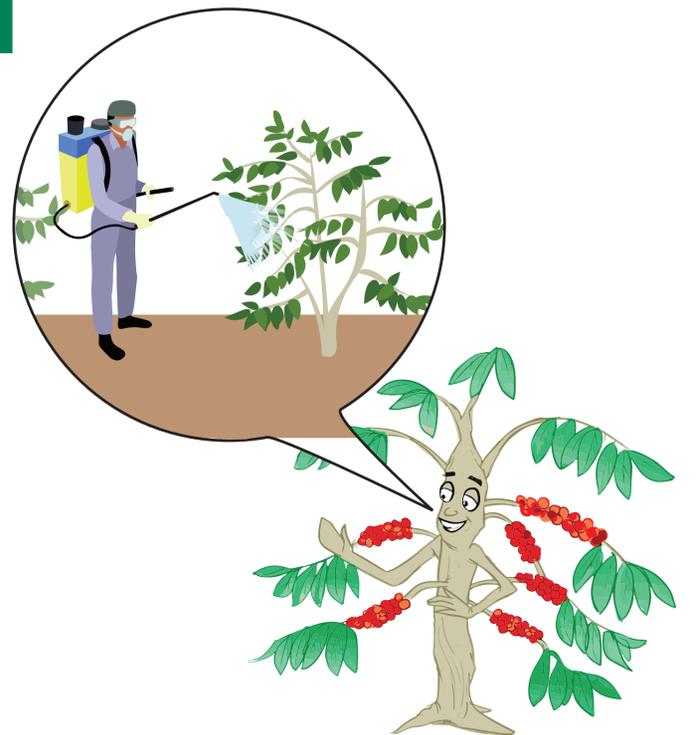


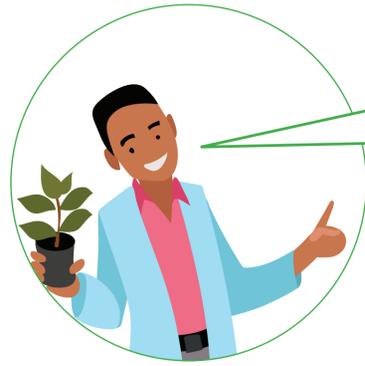
Browntail Moth Caterpillar



### Control

Spot application of insecticides focusing on infested trees

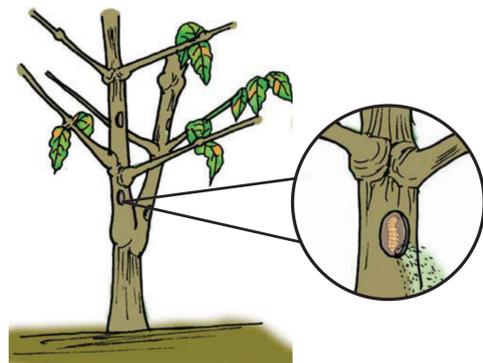
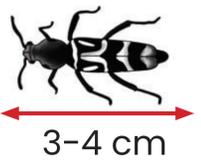
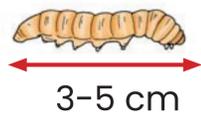




# Pest identification and control

## Coffee Stem Borer – Arabica

Stem Borer larva

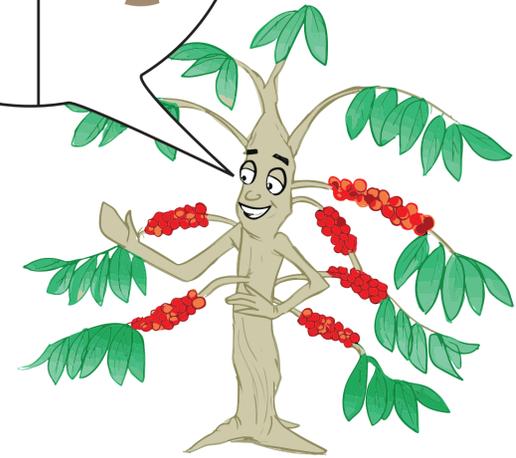
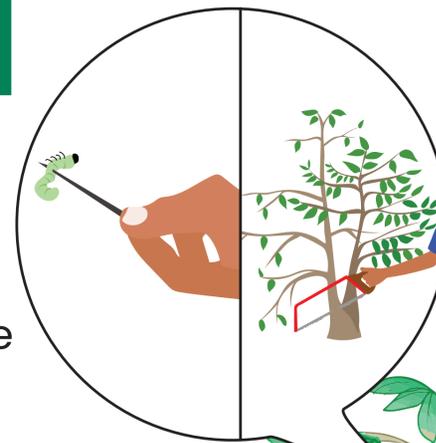


The larvae bore into the stem of the coffee tree.

## Control

Push a sharp object into the tunnel on the coffee stem, to injure and kill the larvae

Under heavy infestation, stump affected stems

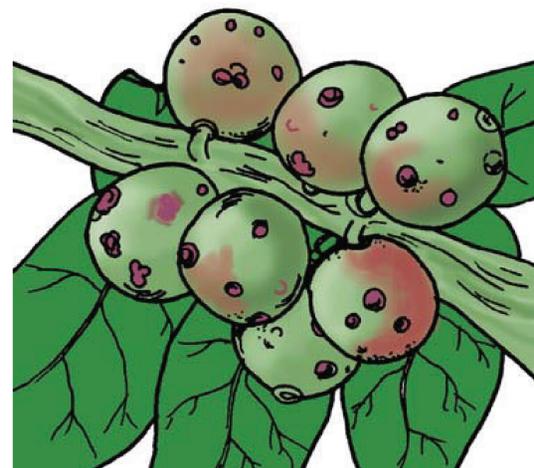




# Disease identification and control

## ECONOMIC SUSTAINABILITY Chart 6a

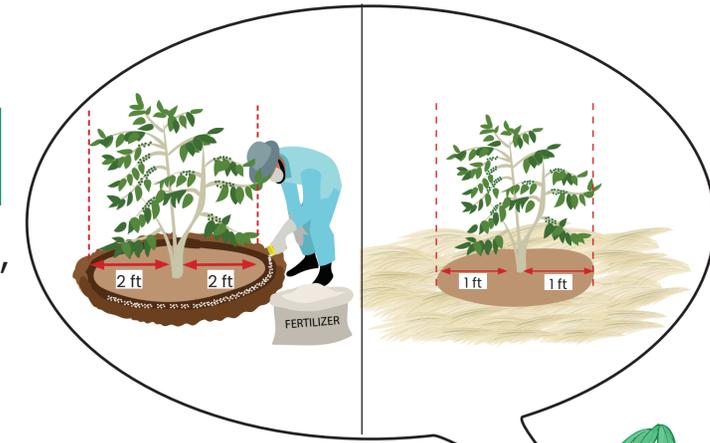
### Red Blister – Robusta



#### Control

For prevention, apply manure / fertilizer and mulch

Stump unproductive old coffee trees



### Coffee Wilt Disease – Robusta

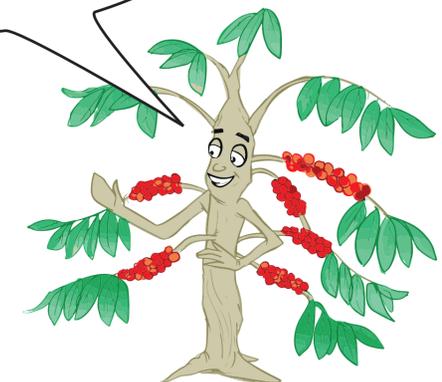
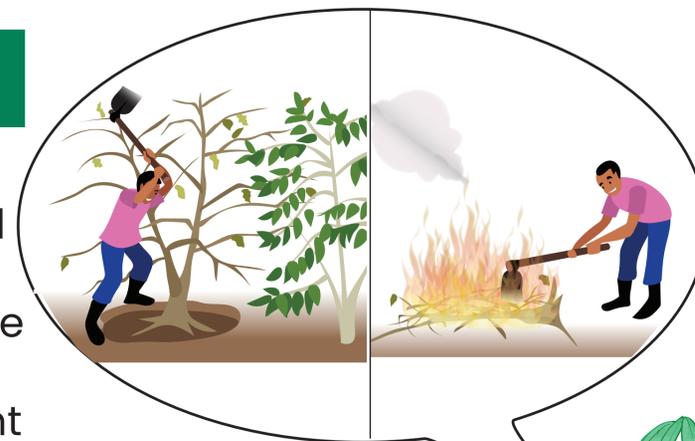


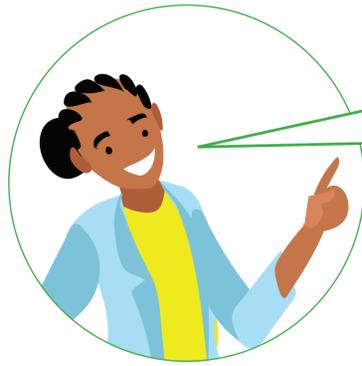
#### Control

Uproot and burn infected trees within the same hole

Plant resistant varieties, such as the KR-lines

Disinfect tools





# Disease identification and control

## ECONOMIC SUSTAINABILITY Chart 6b

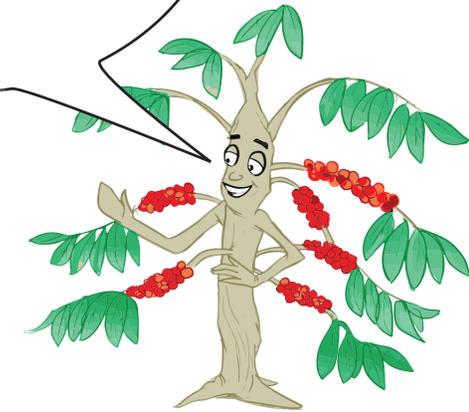
### Coffee Berry Disease – Arabica



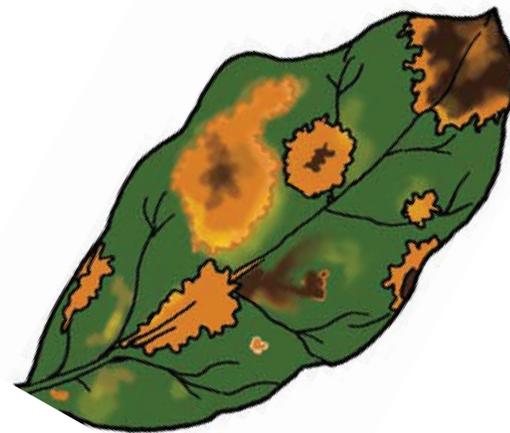
#### Control

Improve soil fertility by adding manure / fertilizer

Apply copper based fungicides



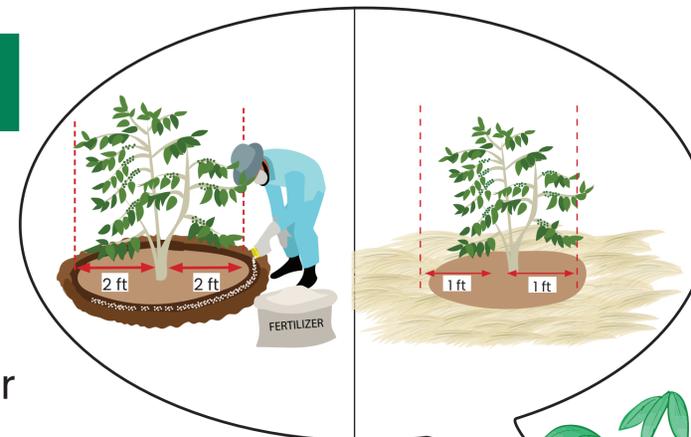
### Coffee Leaf Rust – Arabica



#### Control

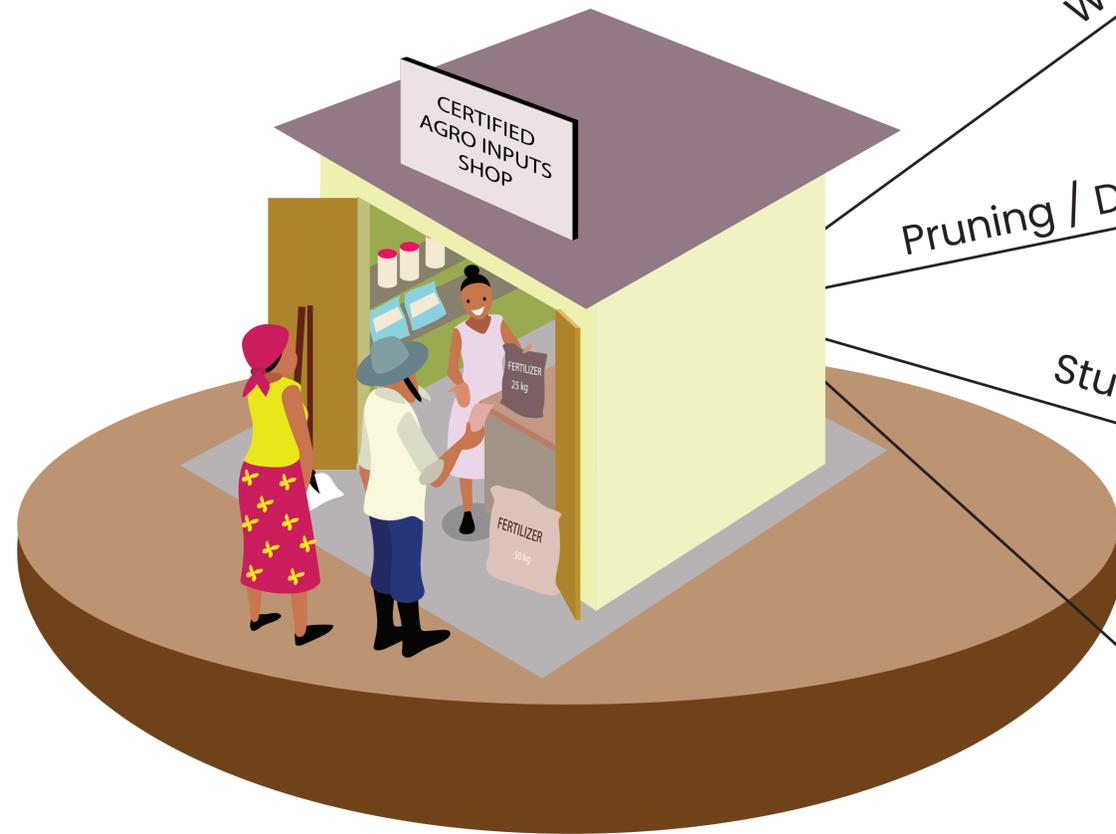
Pruning and managing soil fertility

Apply copper based fungicides



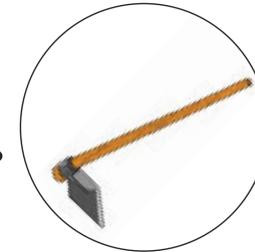


# Use the right tools from certified input dealers

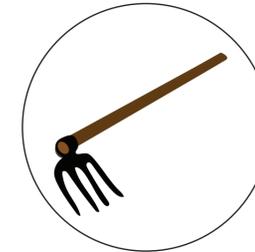


Buy from a certified agro-inputs dealer

Weeding



Hand hoe

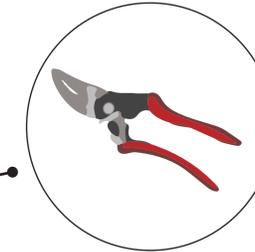


Forked hoe



Slasher

Pruning / De-suckering

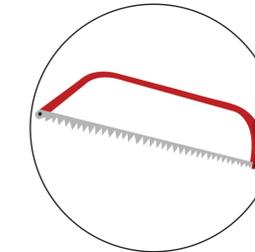


Secateurs

Stumping



Pruning saw

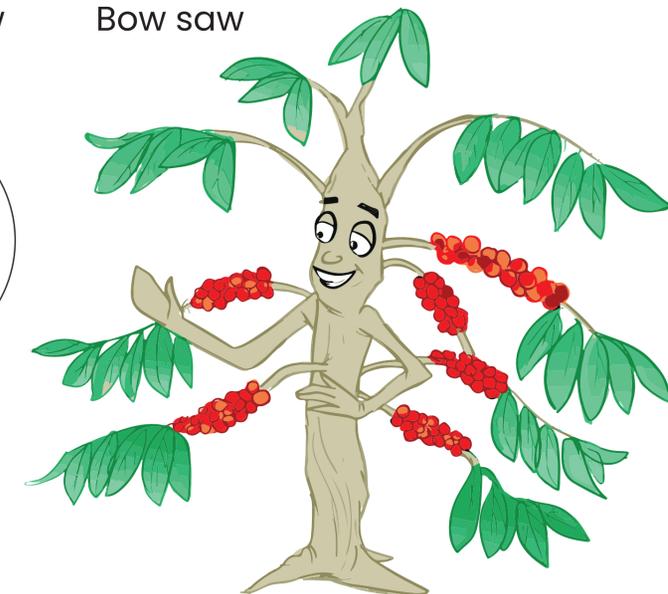


Bow saw

Spraying



Knapsack sprayer





# Harvest properly and handle cherries well

## ECONOMIC SUSTAINABILITY Chart 8

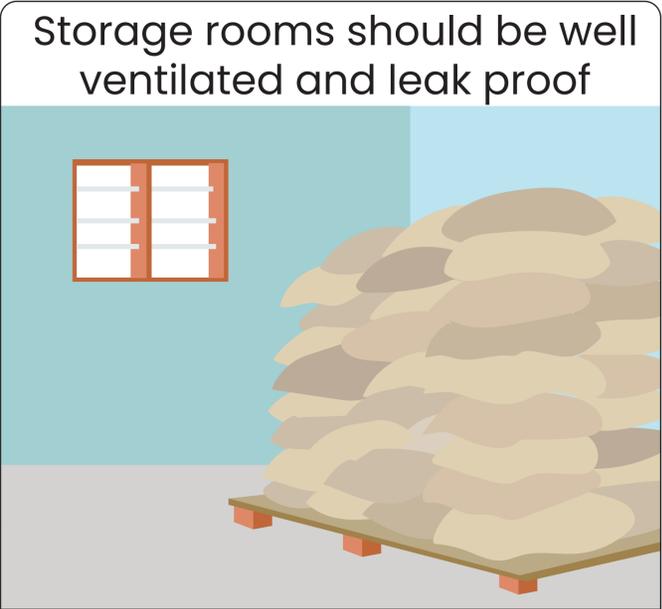
Harvest only fully ripe (brick red) cherries

Do not strip cherries off the branch

Dry processing

**OR**

Wet processing





# Organise your business

## ECONOMIC SUSTAINABILITY Chart 9

### Family joint plan and budget

Budget	
fertilizer	50,000/-
School fees	300,000/-
Spraying	40,000/-
Weeding	100,000/-

Family budget

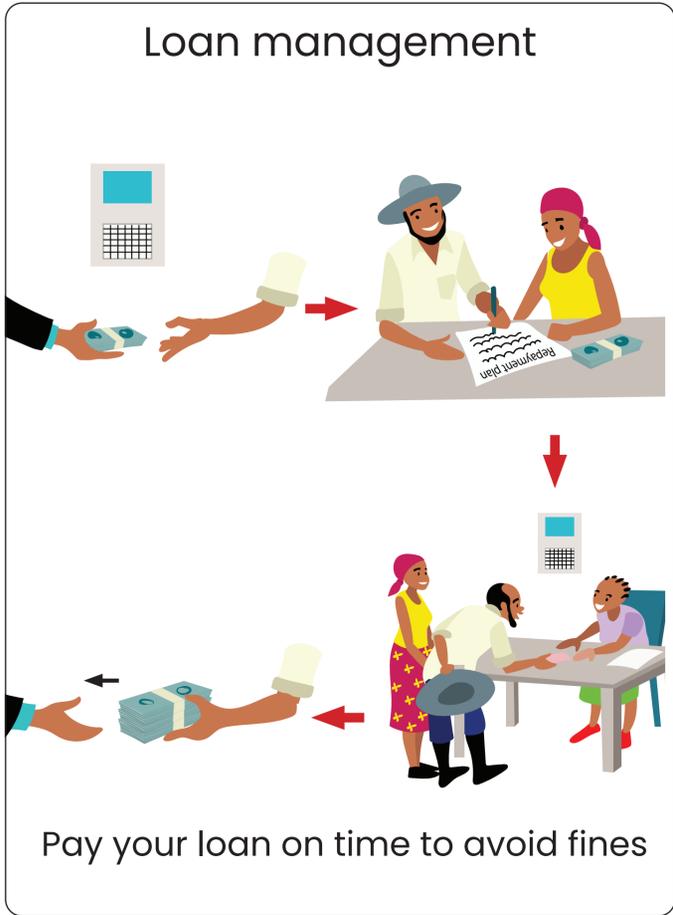
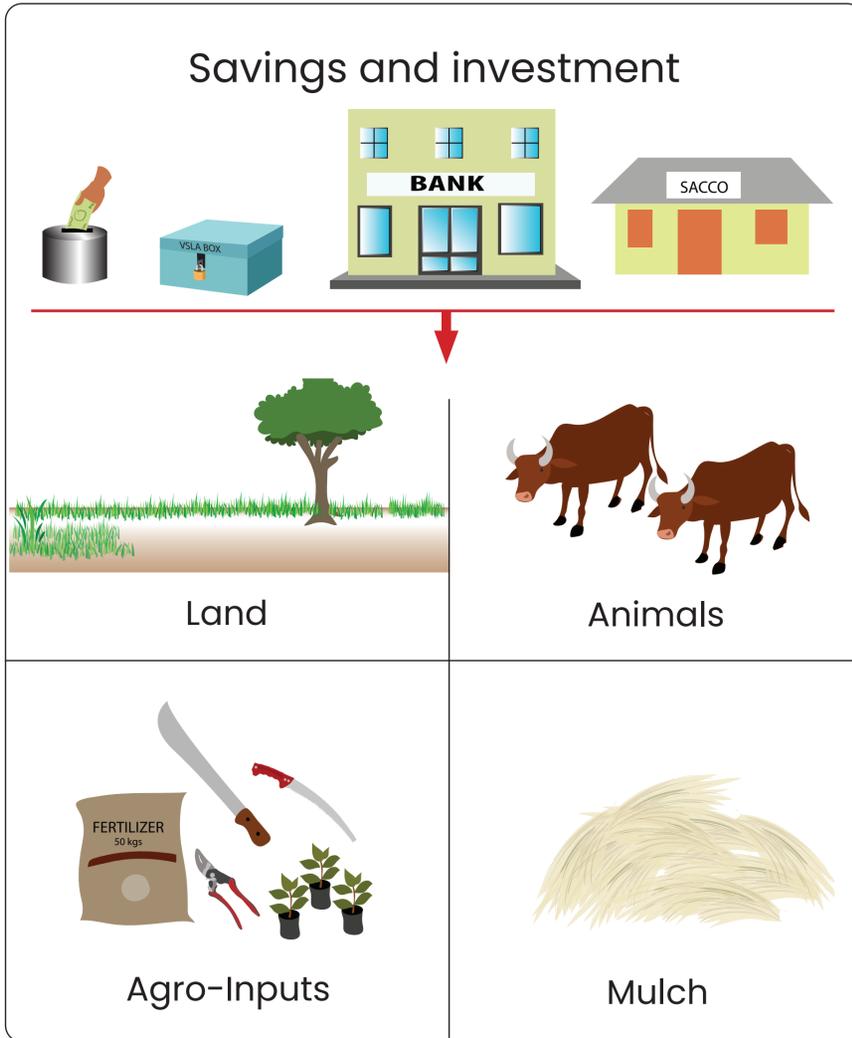
### Expected income

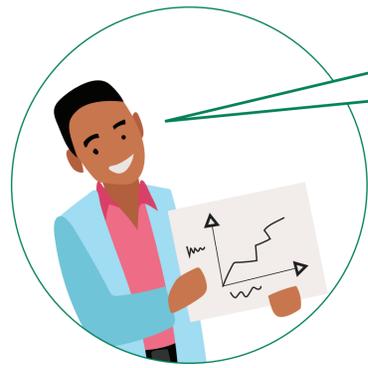
Month	Item	Quantity	Unit price	Amount
January		40	10,000	400,000
May		30	10,000	300,000
June		20	10,000	200,000
July		30	5,000	150,000
<b>Total</b>		<b>120</b>		<b>1,050,000</b>

### Expected expenditure

Time	Item	Quantity	Cost
January		2 people	30,000
February		2 people	50,000
April		1 truck	100,000

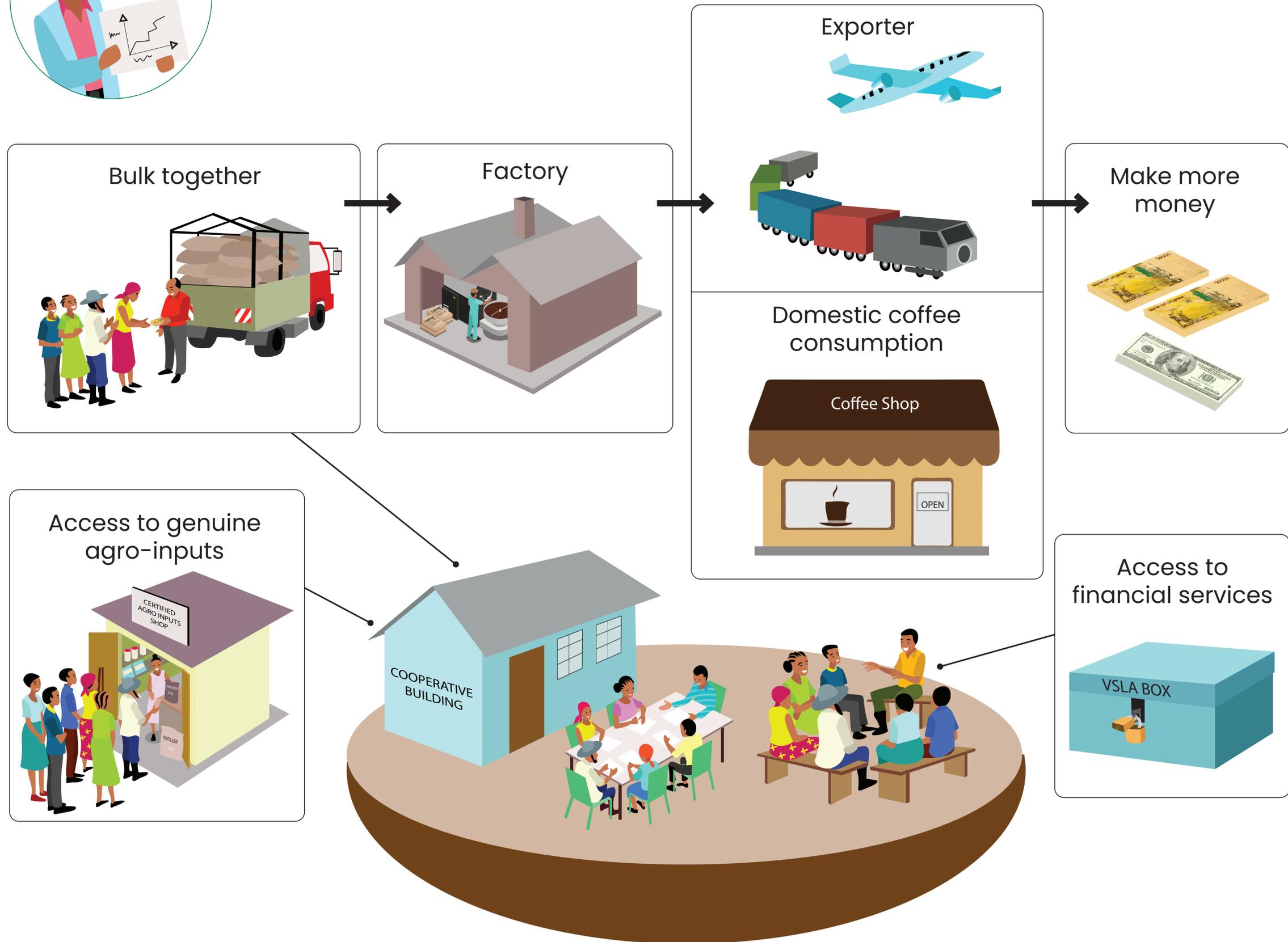
Enterprise budgeting





# Work in groups

## ECONOMIC SUSTAINABILITY Chart 10

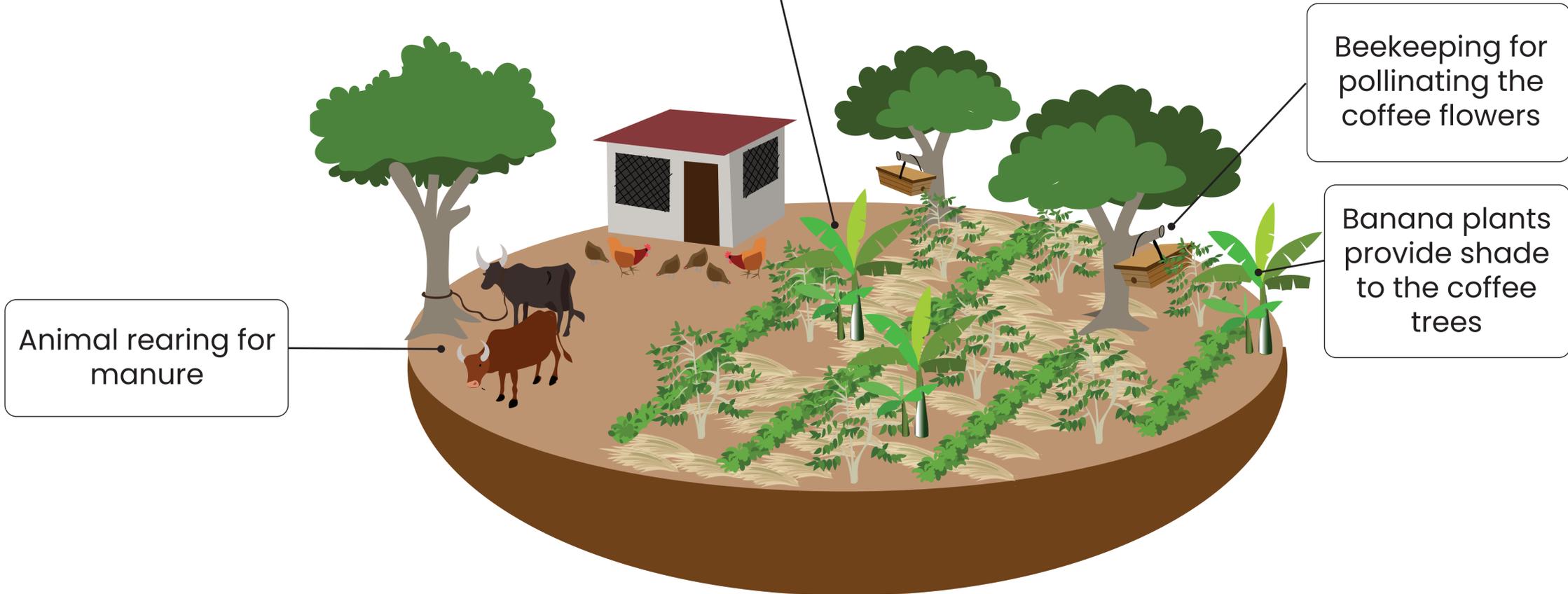




# Spread your risks

## ECONOMIC SUSTAINABILITY Chart 11a

### Diversification and complementary farming

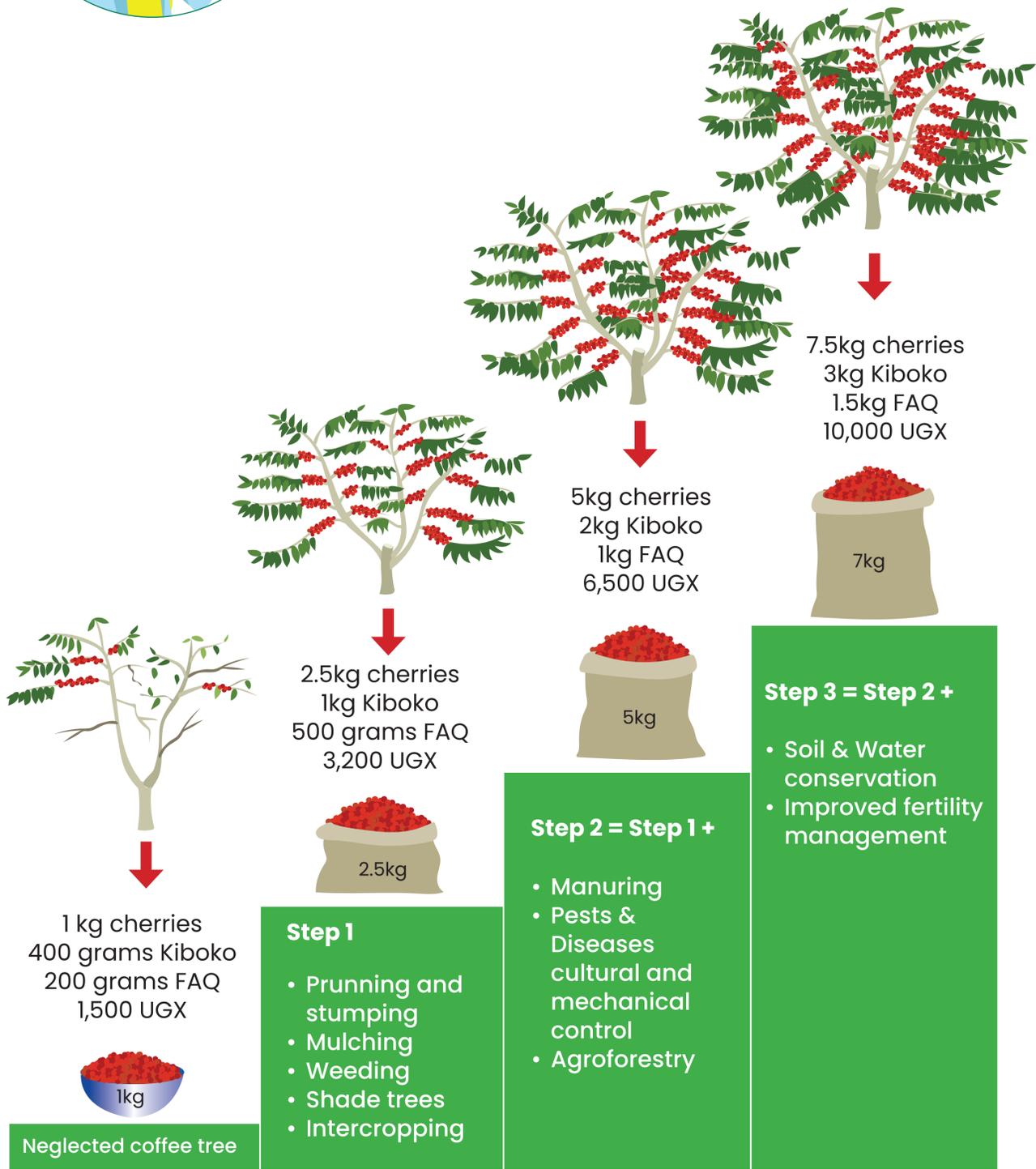




# Business case

## ECONOMIC SUSTAINABILITY Chart 11b

### From a Coffee Tree to a Coffee Garden



### Robusta Coffee

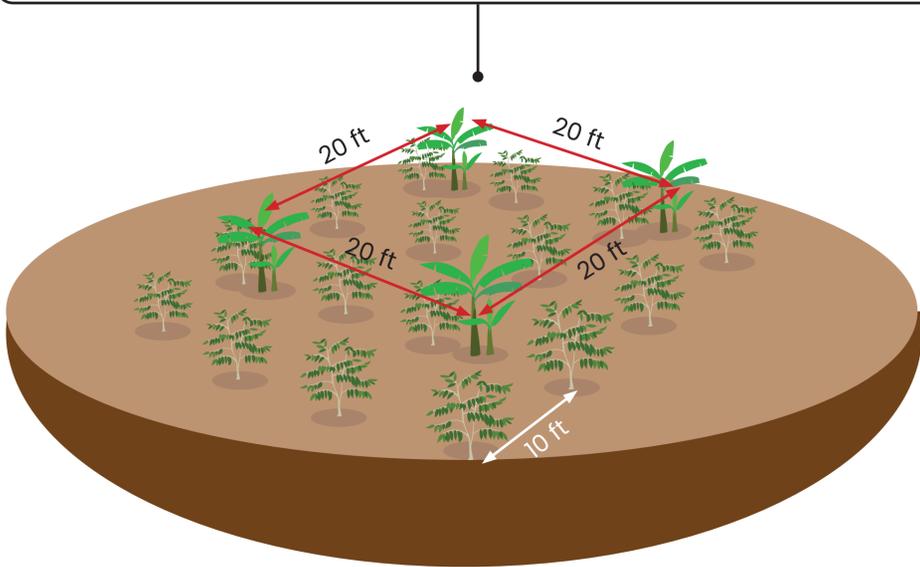
#### Given the following

- Number of coffee trees → 450
- Yield per tree → 1.5kg @ 6,500/=
- Bananas → 112 stools
- Banana yield → 3 Bunches/year @ 10,000/=

Gross Income Coffee →  $450 \times 1.5 \times 6,500/=$   
= UGX 4,387,500/=

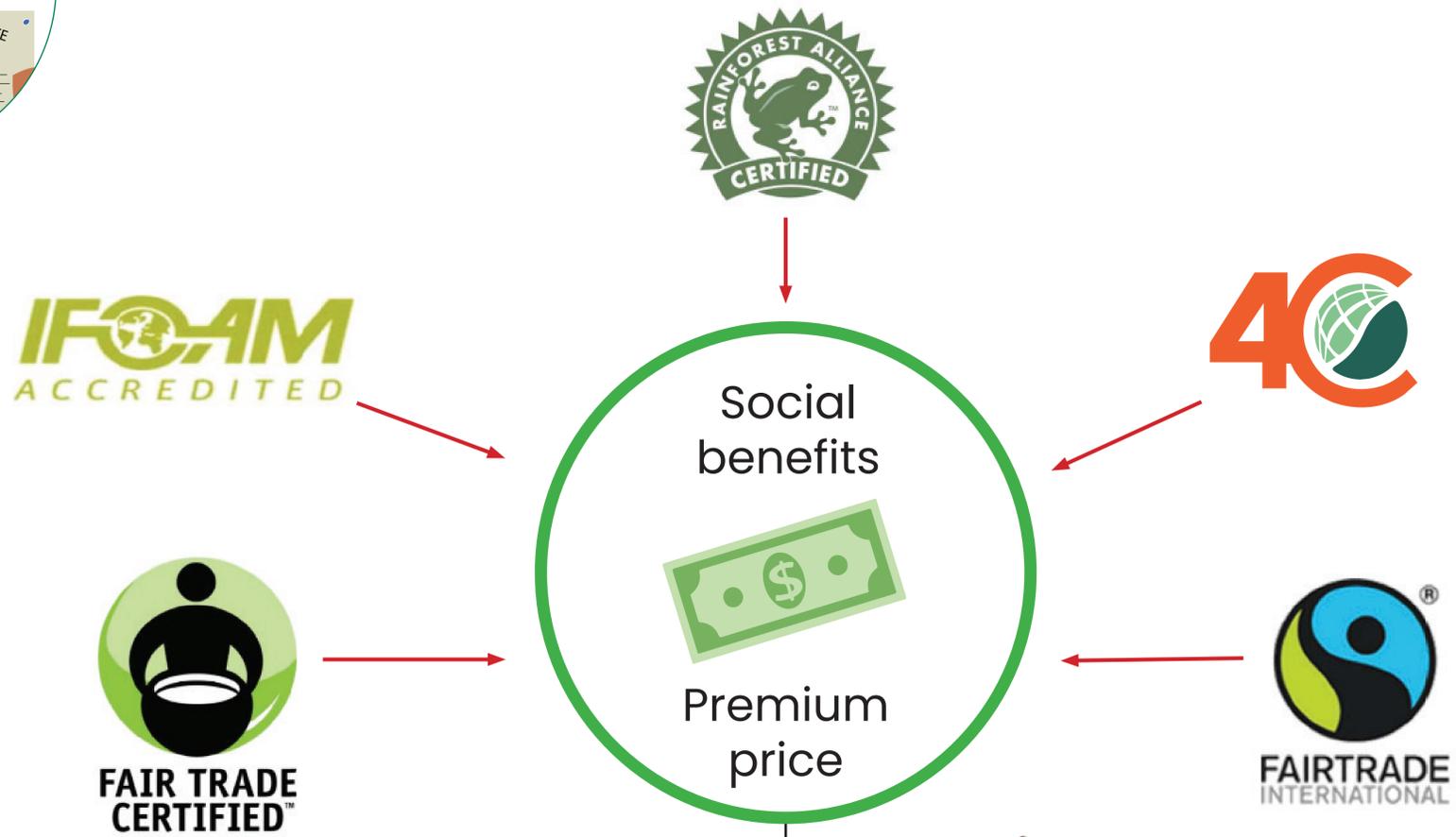
Gross Income Bananas →  $112 \times 3 \times 10,000/=$   
Banana yield = UGX 3,360,000/=

**Total Gross Income = UGX 7,747,500/=**



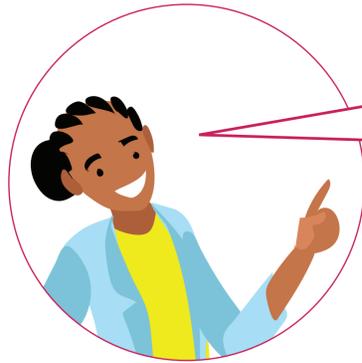


# Certify your coffee



**02**

**SOCIAL  
SUSTAINABILITY**



# Joint planning and decision making

## As a family...

... make budgets together

Budget	
Medical	50,000/-
School fees	300,000/-
Clothes	40,000/-
House repair	100,000/-

... divide work accordingly

Father- Stumping and pruning  
 Mother- Mulching  
 Worker 1- Adding fertilizer  
 Worker 2- Spraying

... select a joint enterprise



## As a community...

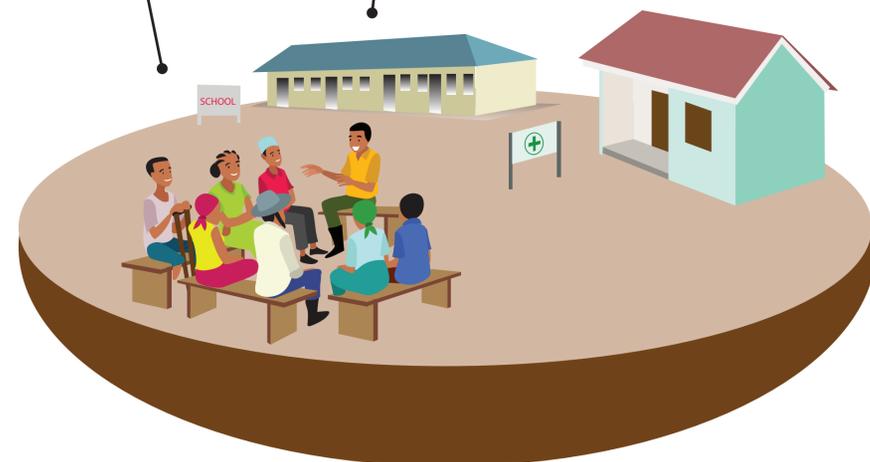
... plan joint training



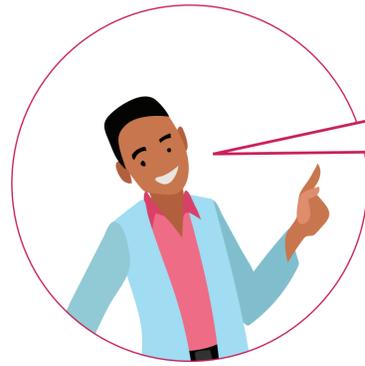
... make a community work plan

Community work plan	
Road maintenance	
Water source maintenance	
Health center maintenance	

... select a joint enterprise



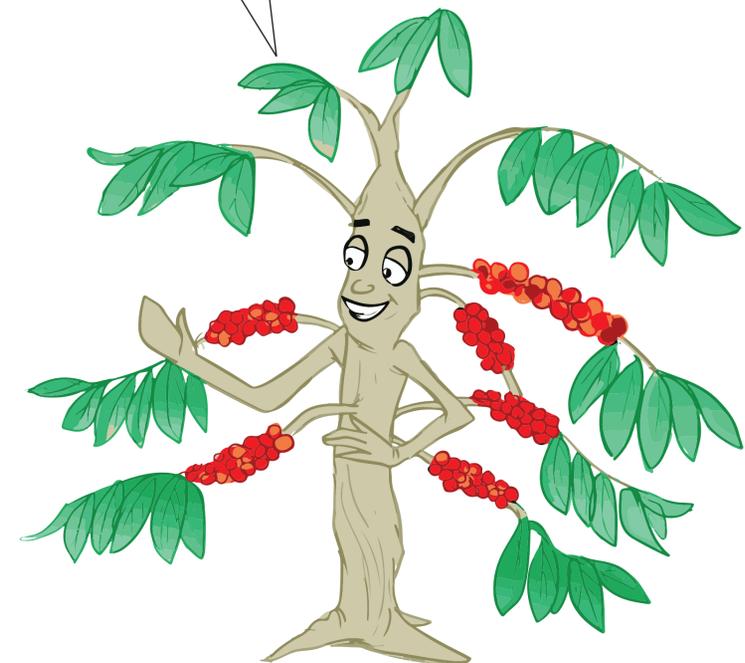
# Children, youth and women on the farm



Women are great business leaders



Children and pregnant women should keep away from chemicals



# Health, safety and welfare of workers



Workers should have decent housing, water, food and medical care



Workers should wear protective gear while spraying



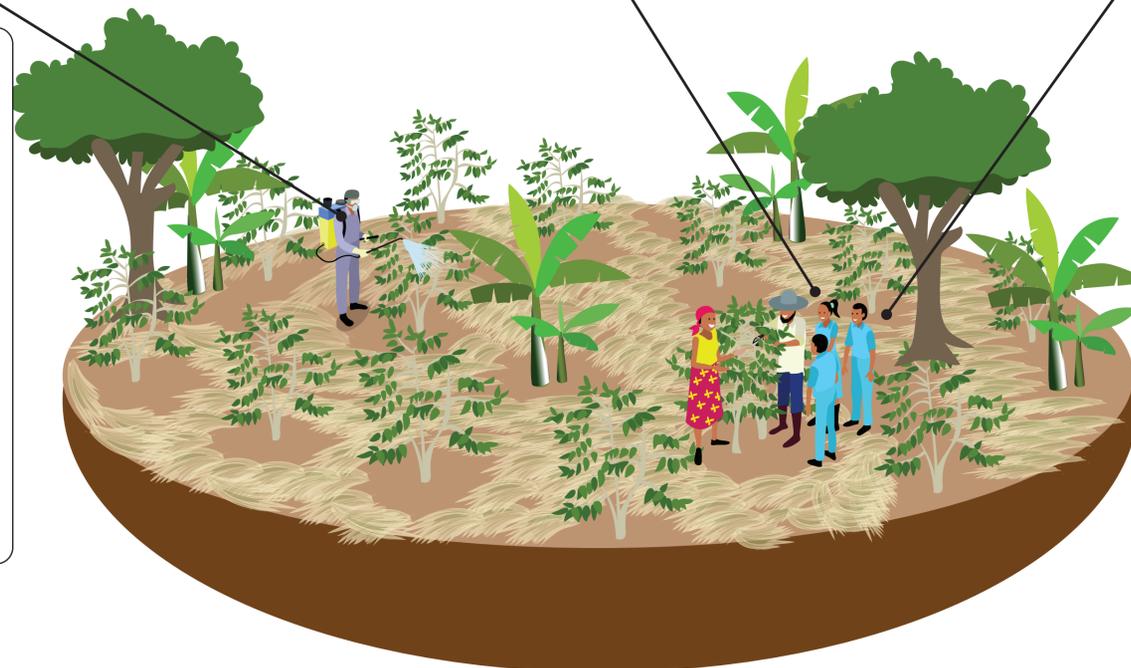
Workers should be trained and given appropriate tools



Workers should be paid on time



Workers should be given appropriate tools



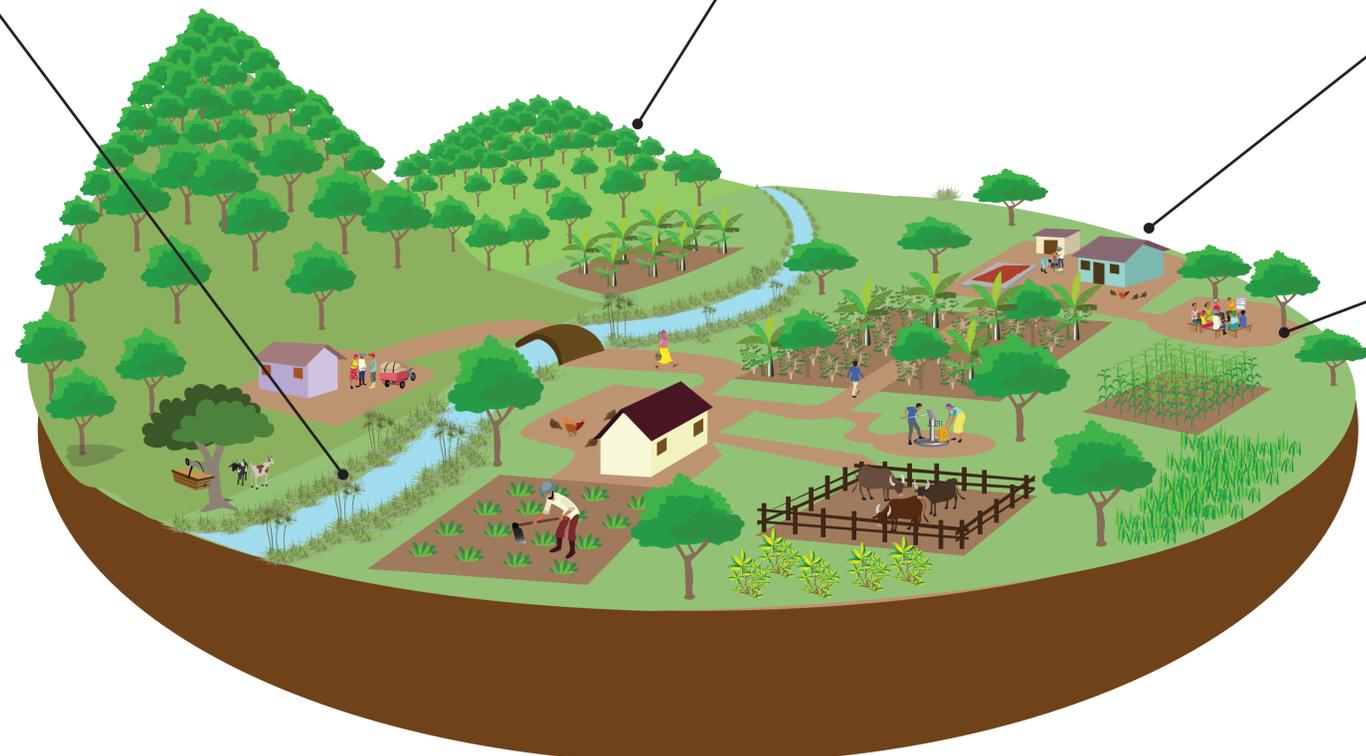
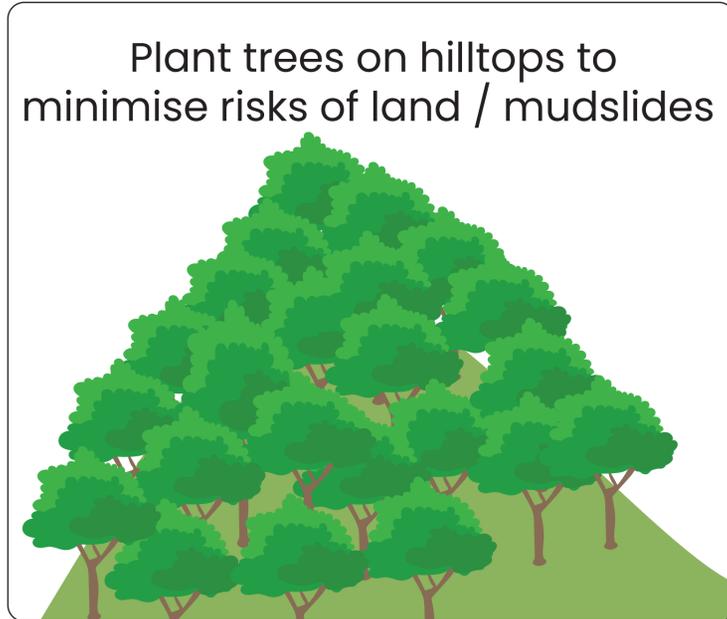
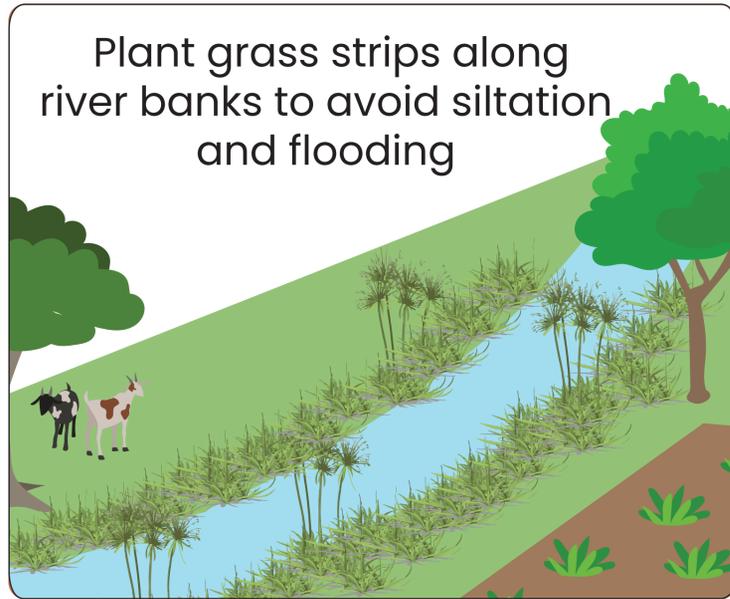
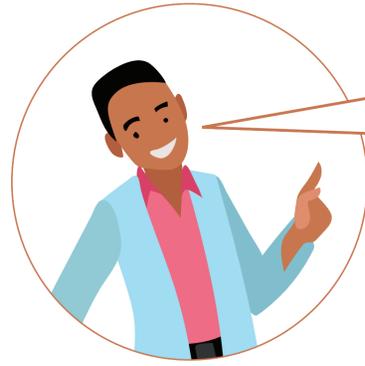
Avoid child labour



**03**

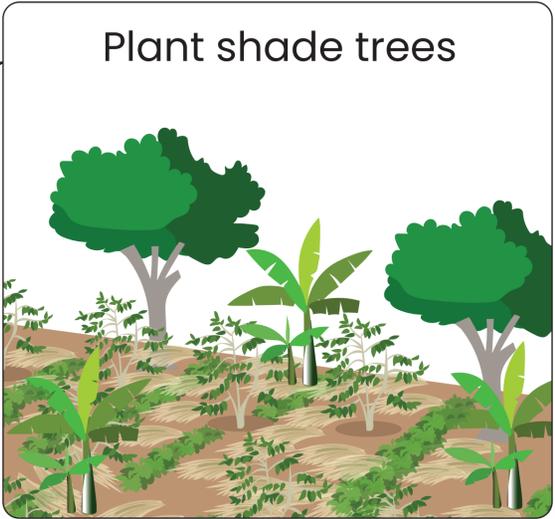
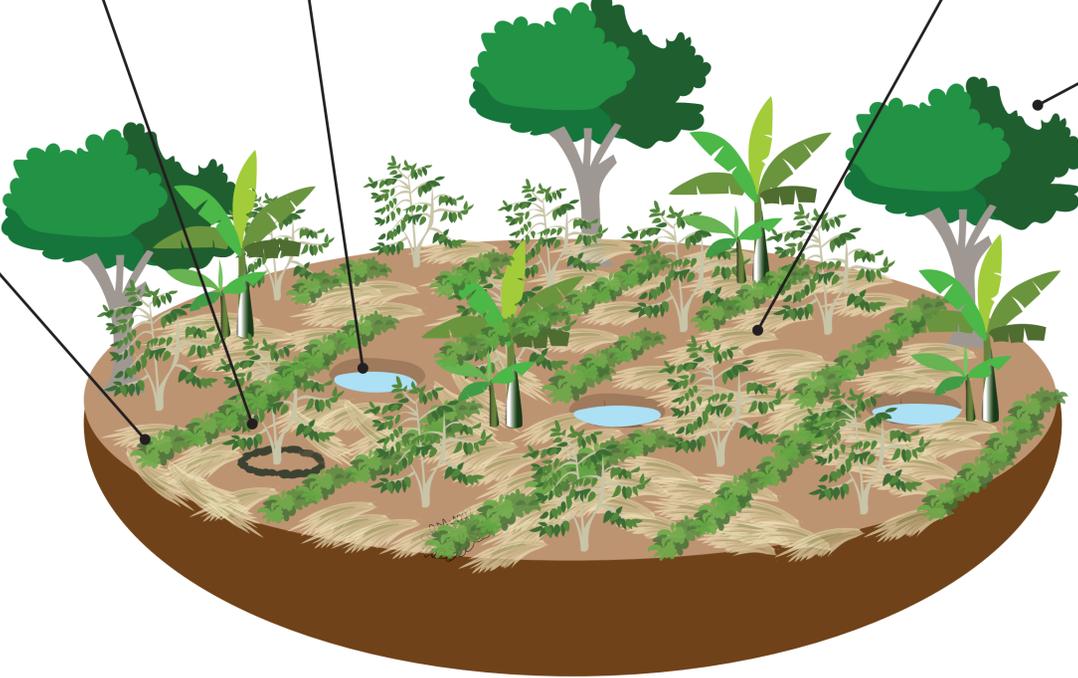
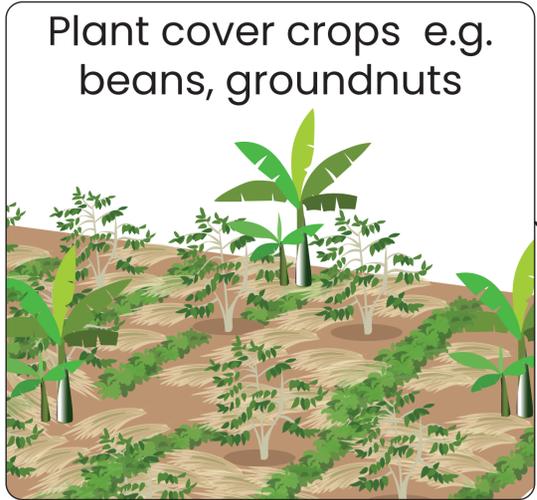
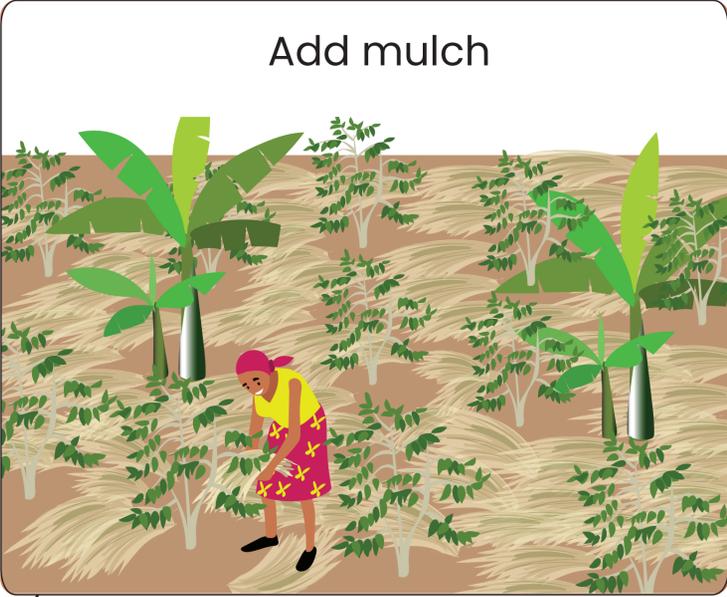
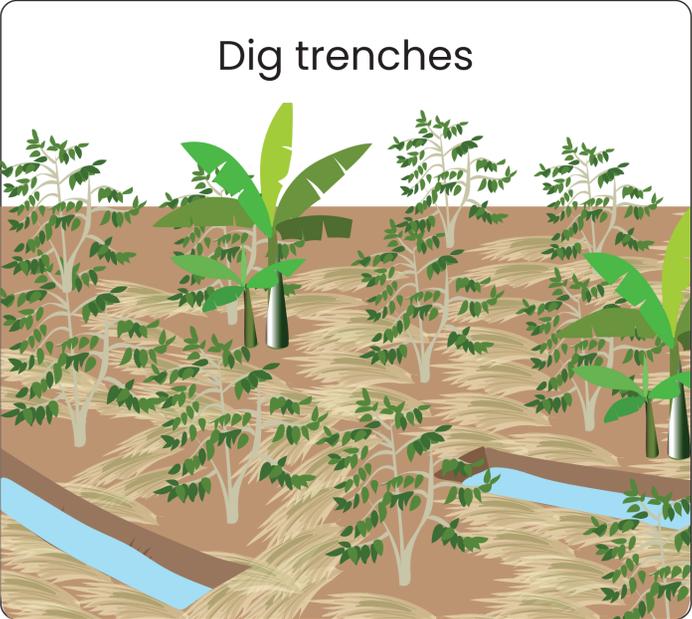
**ENVIRONMENTAL  
SUSTAINABILITY**

# Landscape management





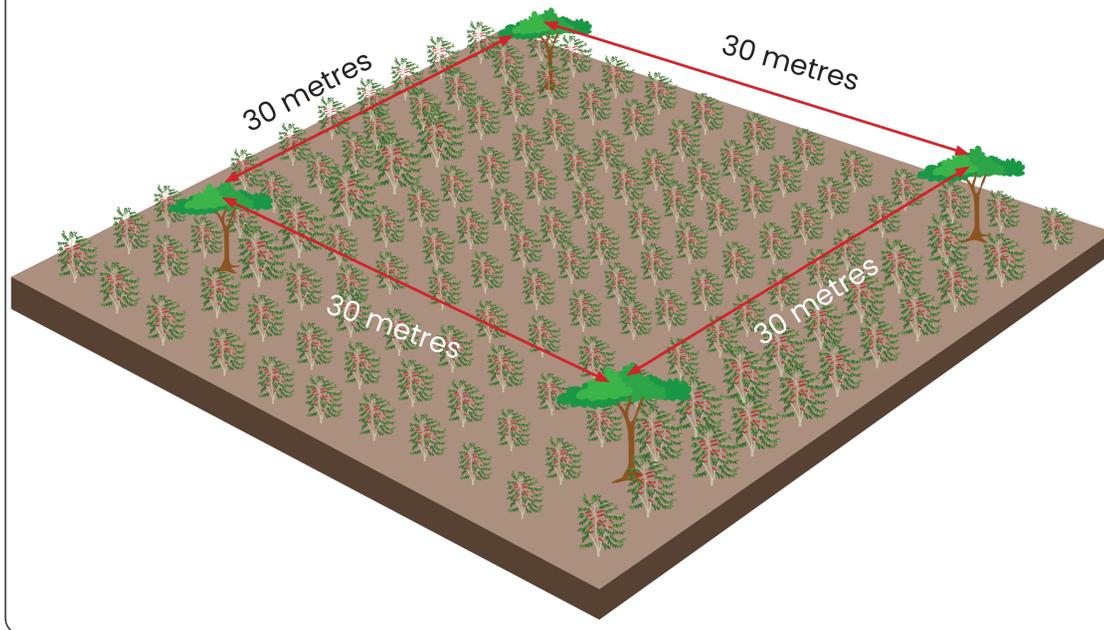
# Protect and conserve your soils



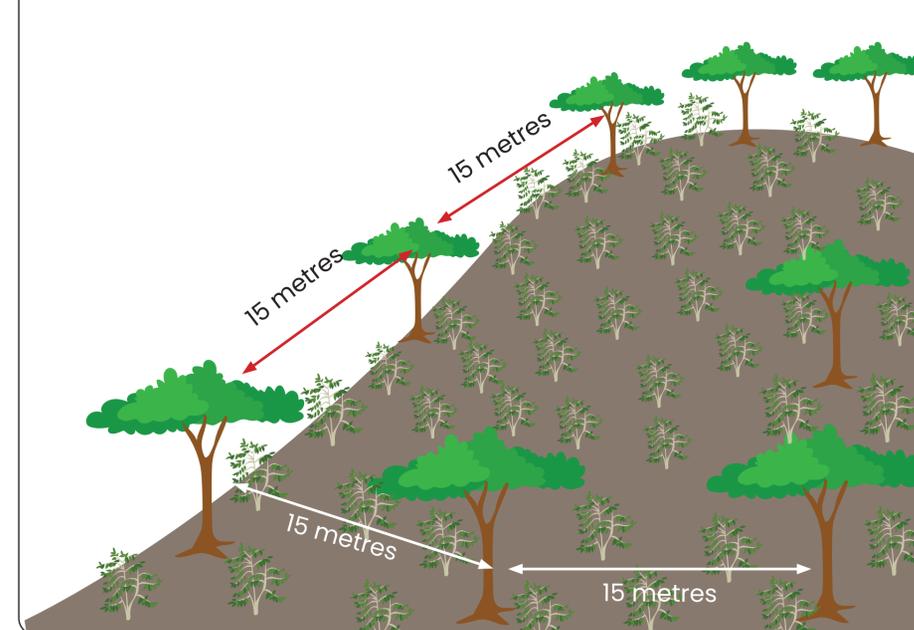


# Trees on a coffee farm

### Shade tree spacing on flat land

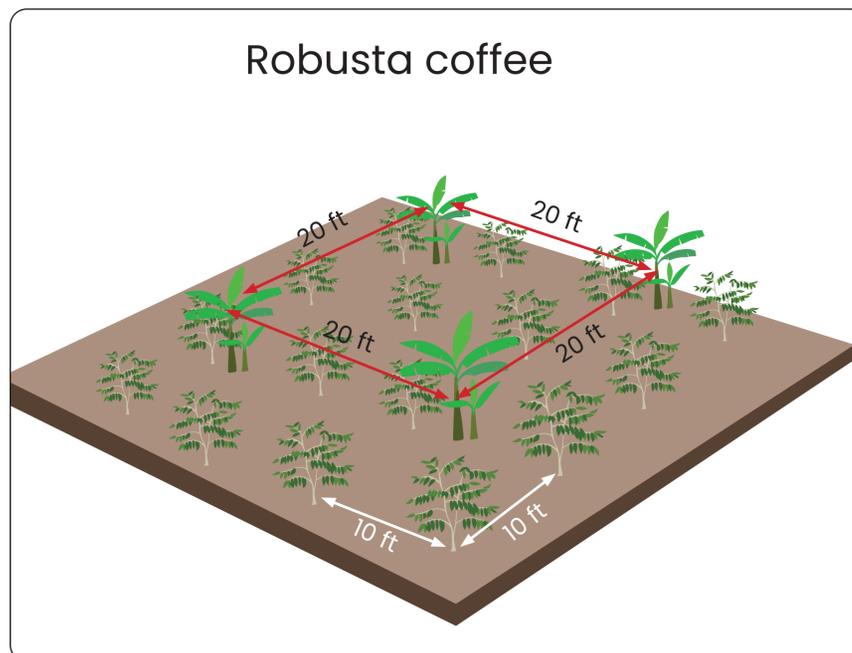


### Shade tree spacing on a slope

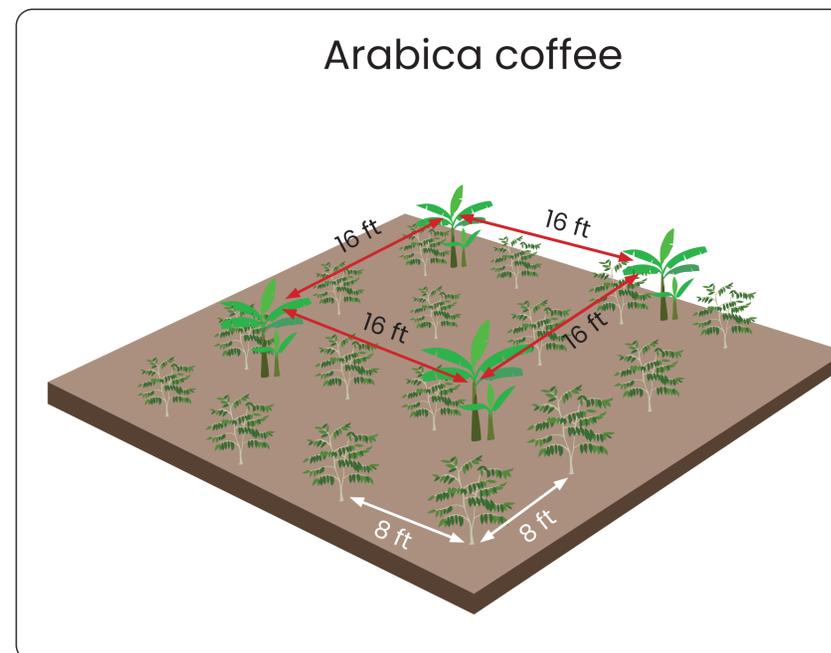


### Spacing of coffee trees and banana plants on the farm

#### Robusta coffee

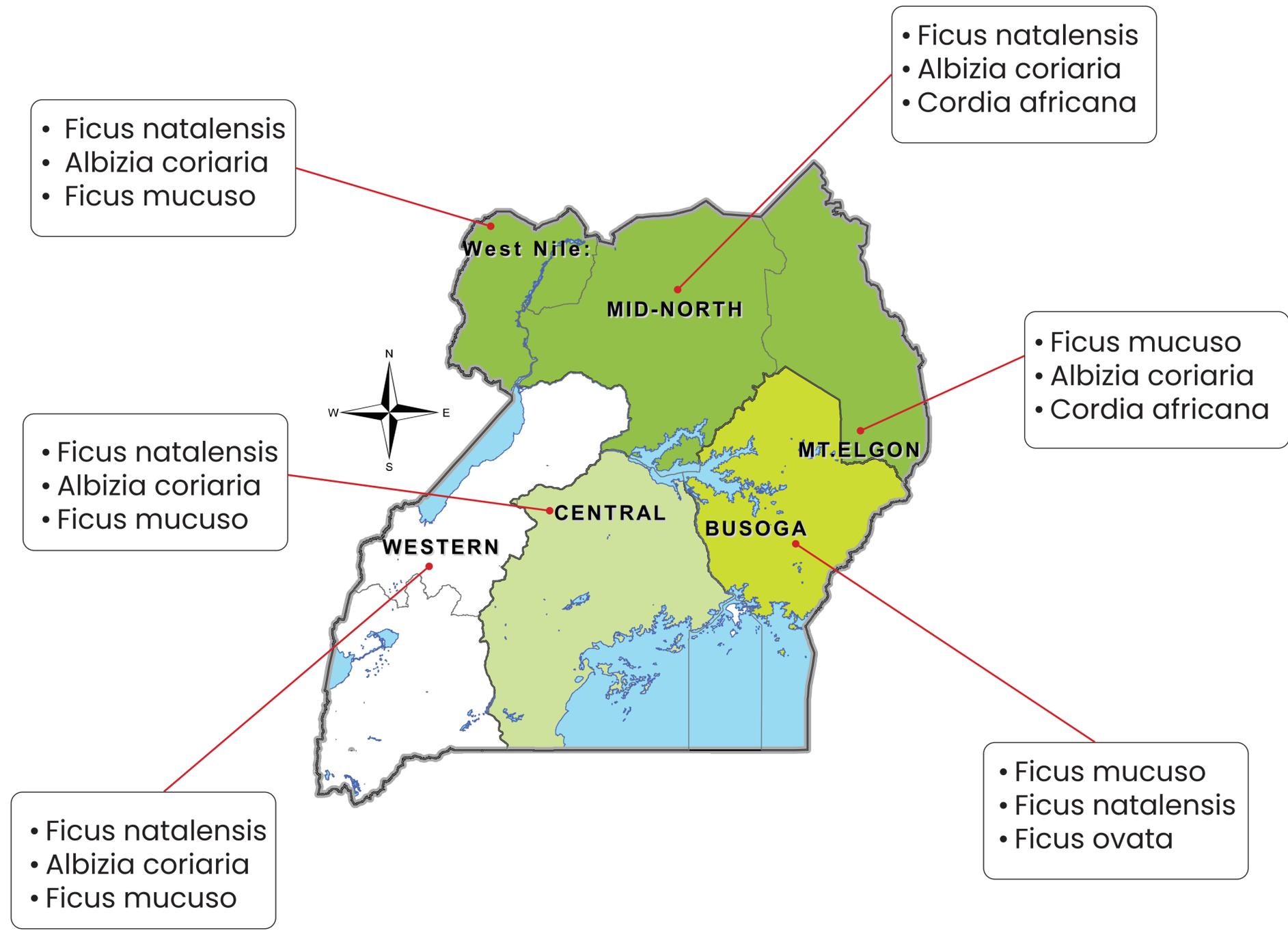


#### Arabica coffee





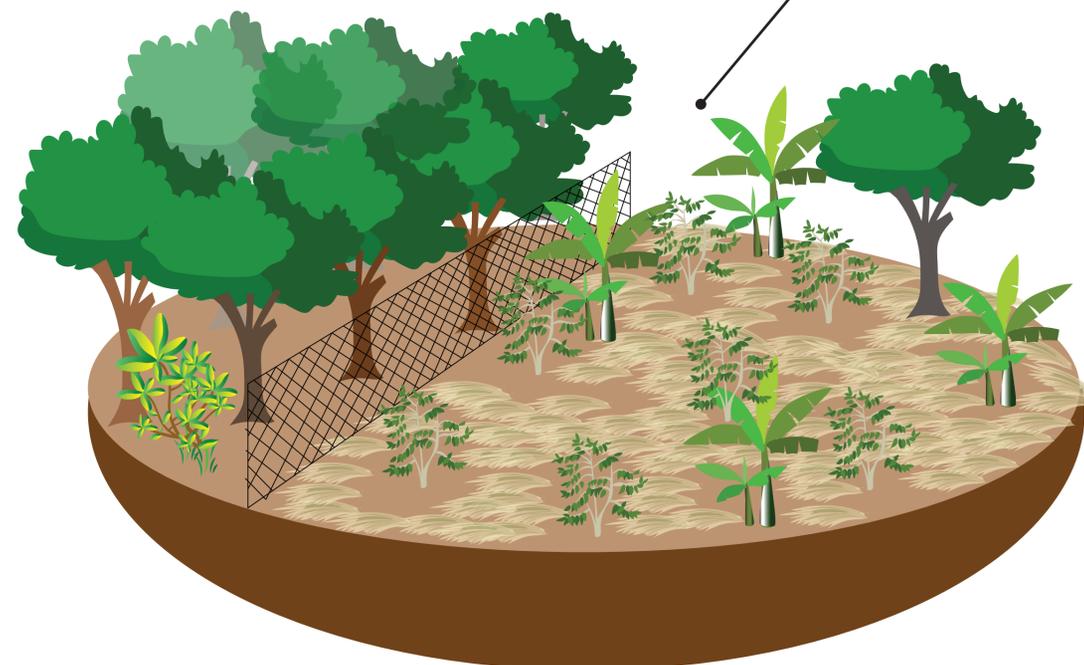
# Recommended shade trees in coffee per region





# Trees outside the coffee farm

Plant recommended multi-purpose trees on the edge of the farm





# Use appropriate water conservation practices

## ENVIRONMENTAL SUSTAINABILITY Chart 19

Bottle drip irrigation

Harvest rain runoff water into dam

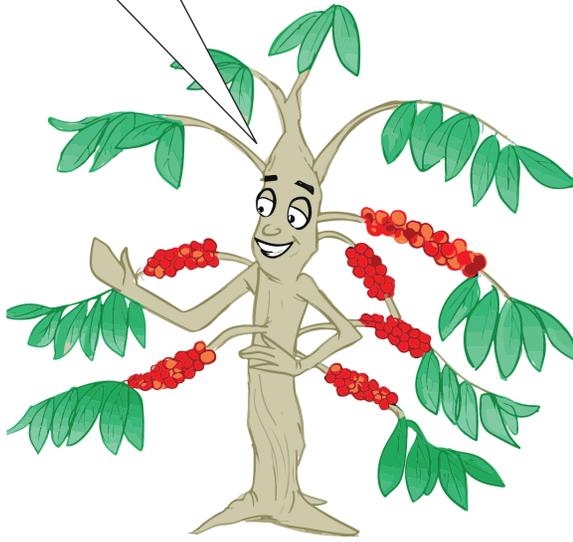
Harvest rain water into tank



Do not wash spraying equipment in water source to prevent downstream pollution and endangering of the aquatic life

Do not spray near the water source to prevent downstream pollution and endangering of the aquatic life

Do not wash your coffee in the water source to prevent downstream pollution and endangering of the aquatic life

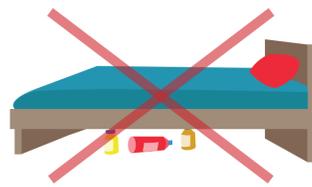




# Safe handling of chemicals and waste

## Agro-chemicals

Always wear protective gear when handling chemicals



Do not store chemicals under the bed



Do not store chemicals in beverage bottles



Children should not spray chemicals

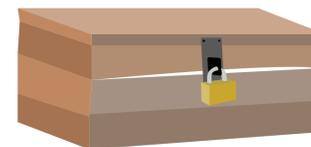


Banned Chemicals  
Do not use banned chemicals



Store chemicals in a room with a lock

OR

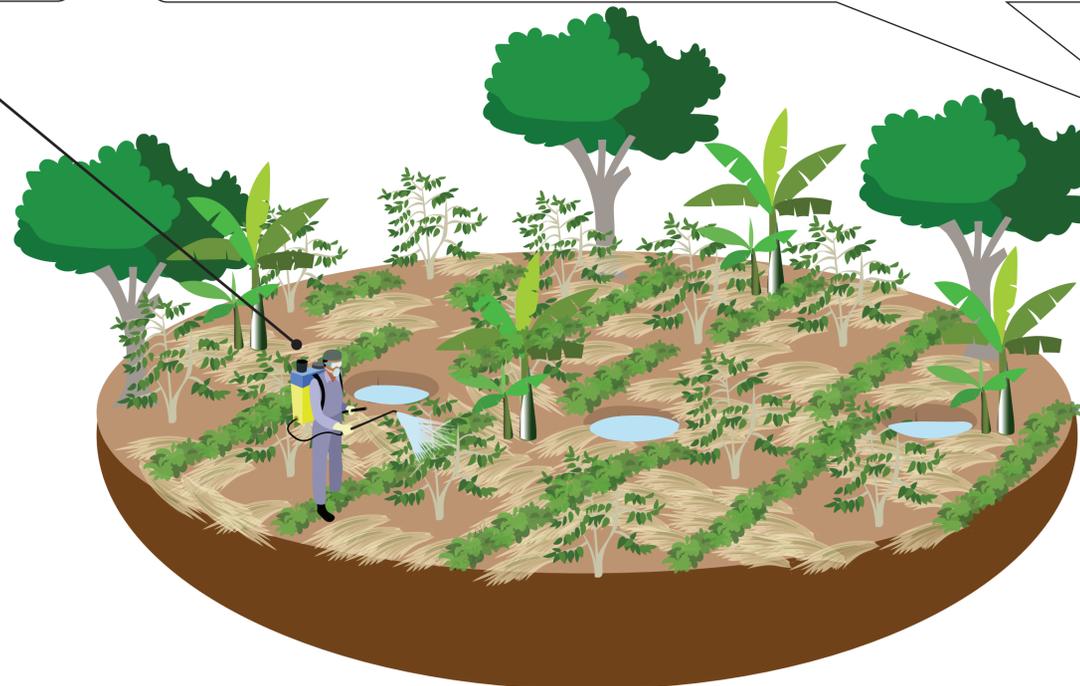
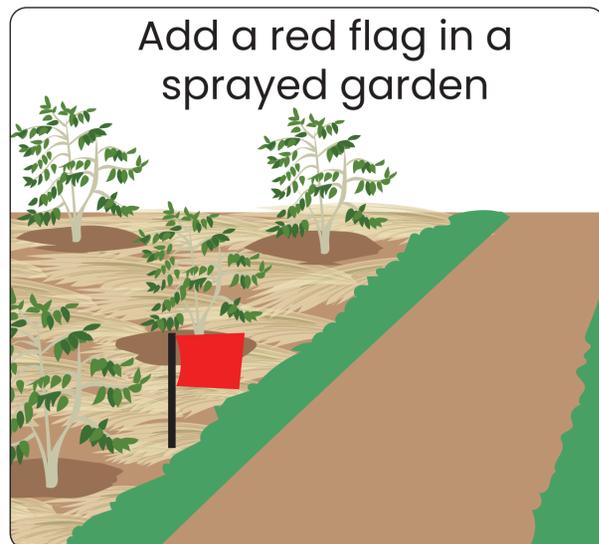


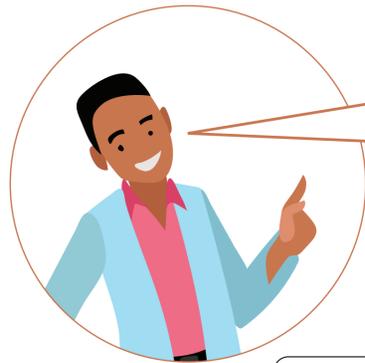
In a box with a lock



Carefully dispose off used containers

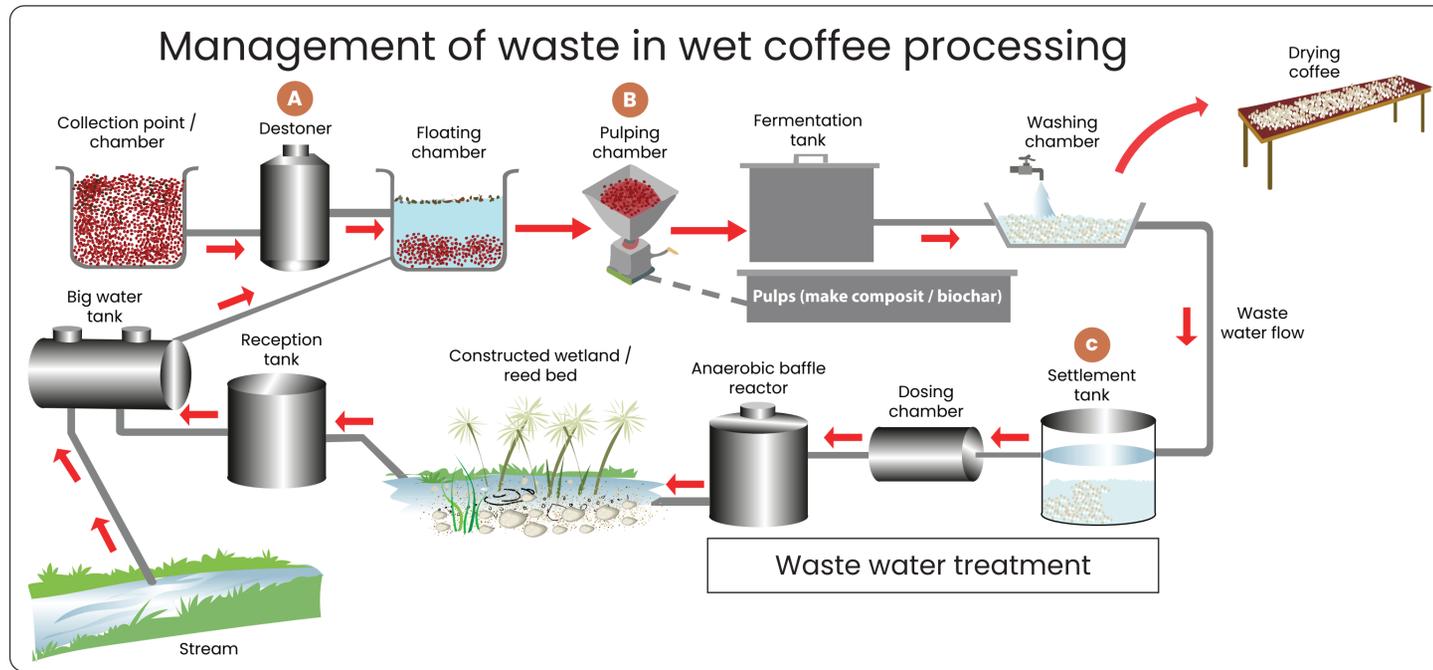
Add a red flag in a sprayed garden



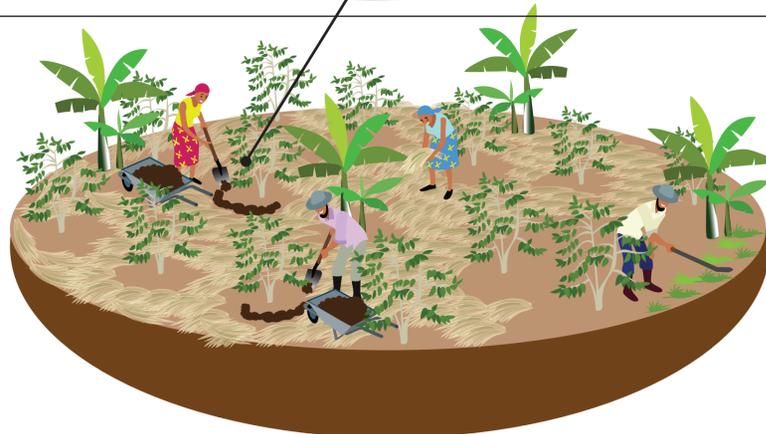
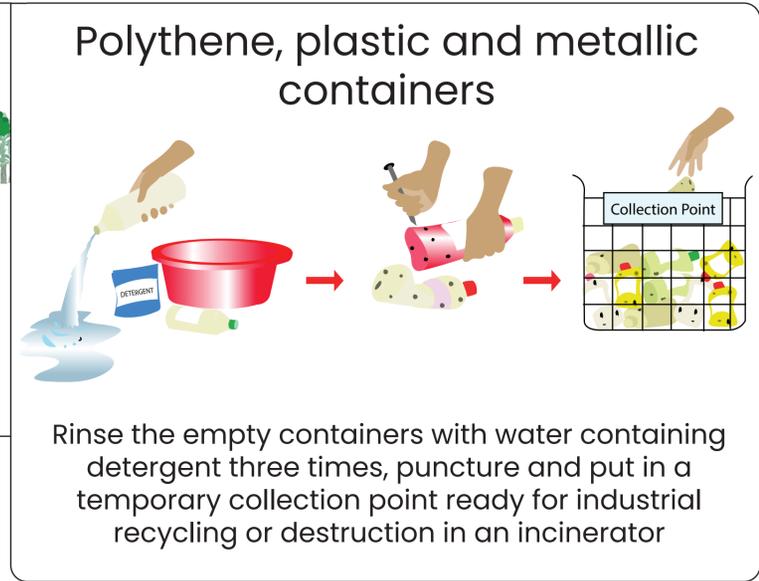
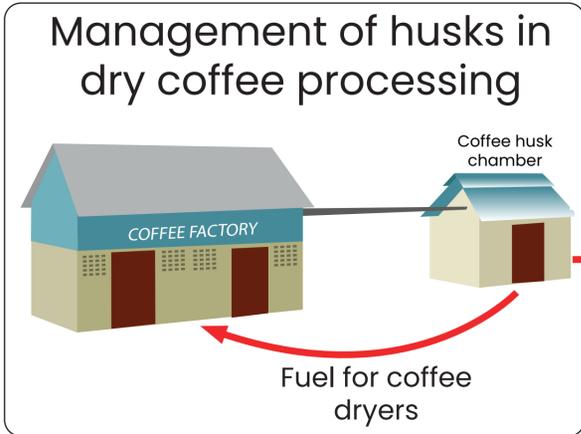


# Safe handling of chemicals and waste

## Waste / by-products



Waste production stage	Type of waste
A: Destoner	Stones, twigs / branches, leaves
B: Pulping chamber	Pulps
C: Settlement tank	Waste water

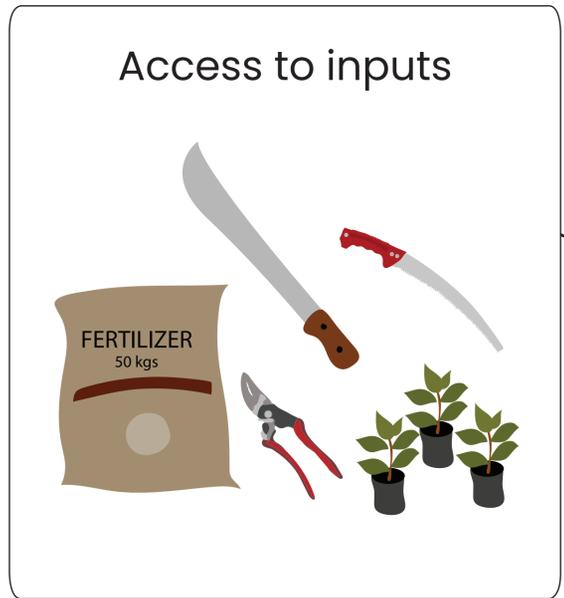
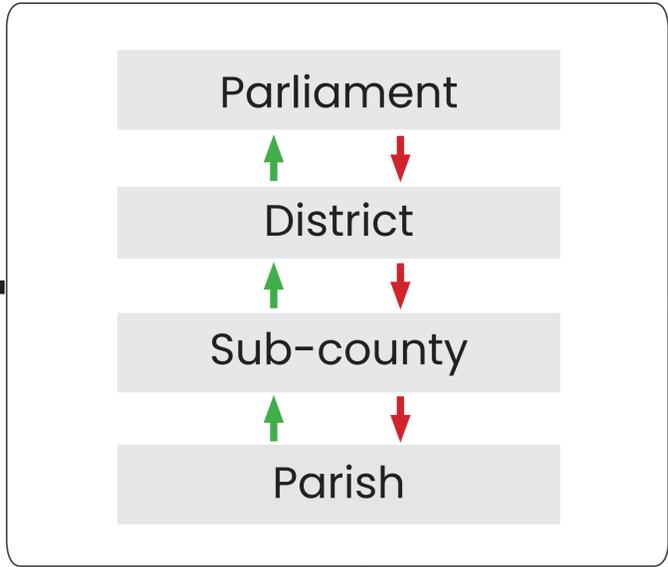


**04**

**GOOD  
GOVERNANCE**



# Let your voice be heard

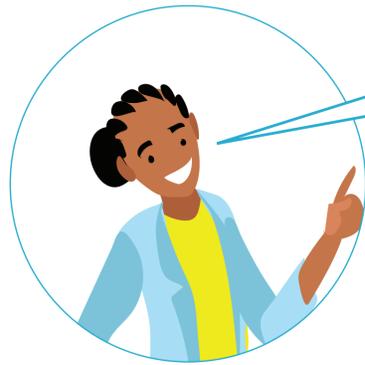


Parish development committee meetings



# Formalisation of groups





# Keep your promises

GOOD GOVERNANCE  
Chart 24

Meet your obligations

Farmer groups



- Membership
- Annual subscriptions
- Savings
- Active participation

Cooperative / Sacco / VSLA



- Accountability
- Transparency



## FOR MORE INFORMATION, PLEASE CONTACT;



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