

# LOW CARBON VALUE CHAIN DEVELOPMENT IN VIET NAM

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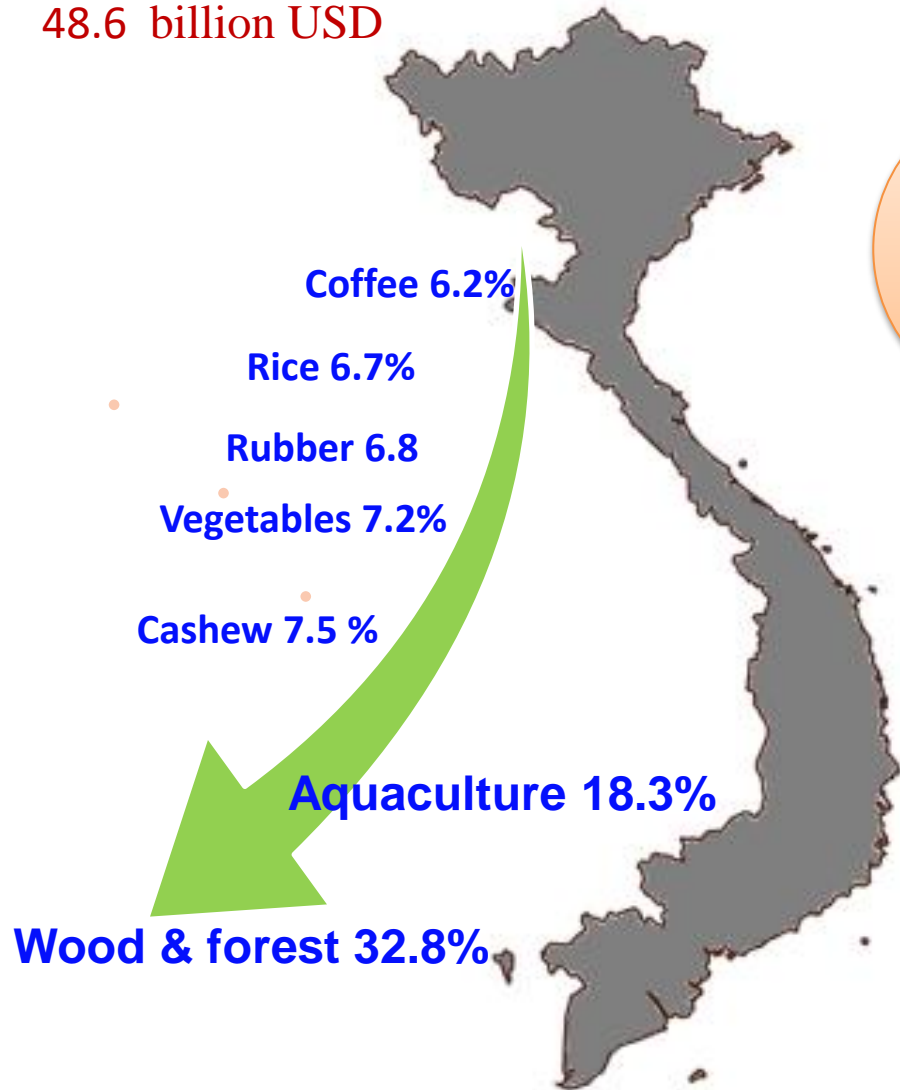


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# AGRICULTURE SECTOR: CROP PRODUCTION

Total agricultural export value 2021  
48.6 billion USD



13.97% of GDP 2021 comes from agri

98.5 M people  68% of farmers are smallholders  
 62.9% of pop. live in rural areas  
 28.9% are employed in agriculture

(Source: GSO, 2022)

Unit: Mt CO<sub>2</sub>e

Emission Sources	Year			
	2014*	2020	2025	2030
Enteric Fermentation (fr. ruminant)	10,2	18,8	21,0	22,2
Manure management	8,9	12,1	13,1	14,1
Rice cultivation	44,3	41,9	41,9	41,5
Agriculture soils	24,0	29,3	30,7	32,2
Prescribed burning of savannas	0	0	0	0
Filed burning of agriculture residues	2,4	2,4	2,5	2,1
<b>Total</b>	<b>89,8</b>	<b>104,5</b>	<b>109,2</b>	<b>112,1</b>

Sources: NIR 2014, MONRE, 2018

# Development of agricultural value chains based on 3 pillars

## Principles:

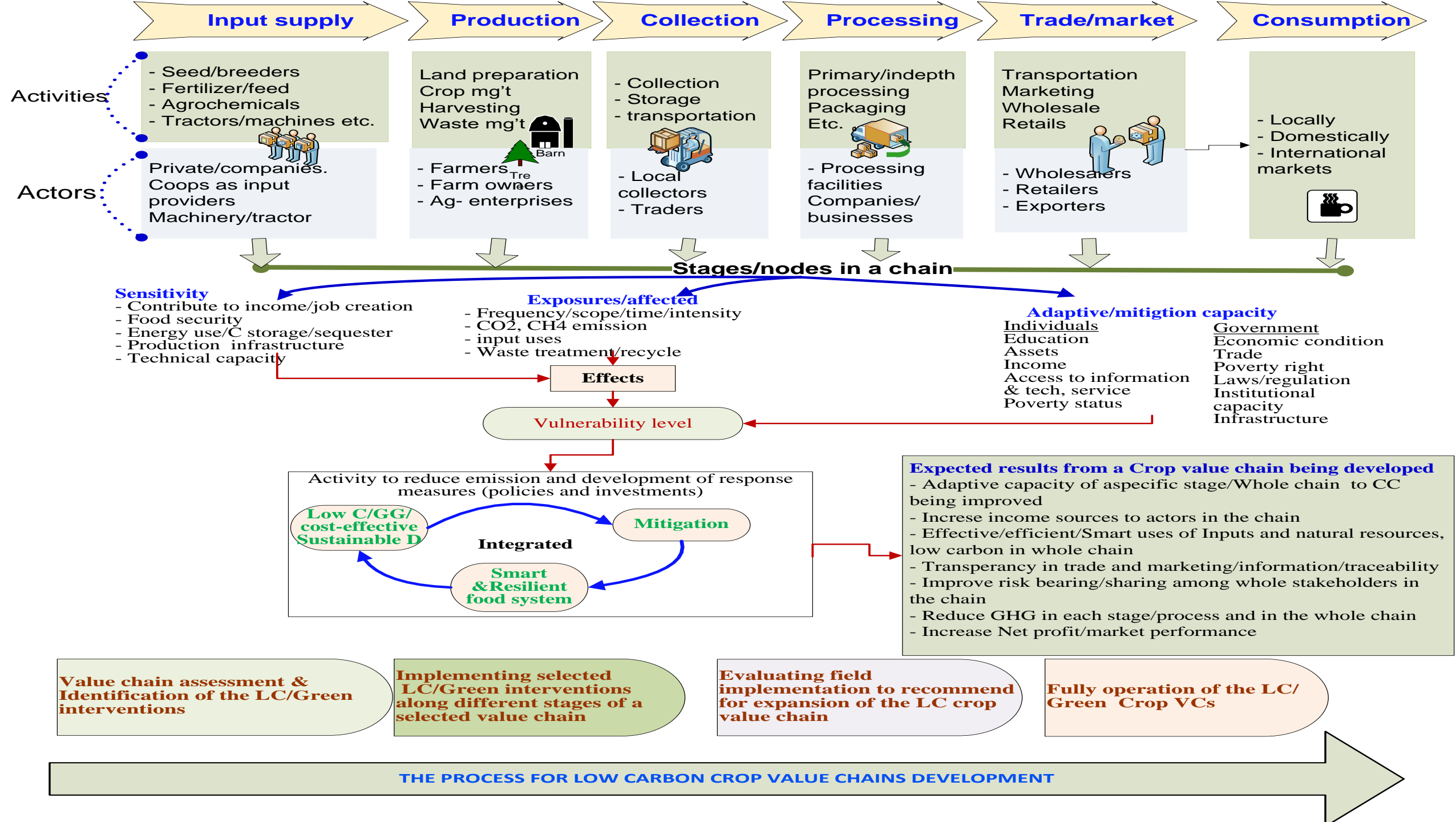
- Selection based on the size of total production value
- Enterprises centered, business-farmer-value chain stakeholders linkages concentrated in reasonable size within a certain ecological region
- Applying high tech to ensure competitive capacity and market demand driven for all stakeholders in the value chains

## 1. Export values of key national agricultural value chains (~1 bn) (\$US billion)

Products	2019	2020	2021
Rice	2.79	3.07	3.27
Vegetable & fruit	3.74	3.30	3.52
Coffee	2.75	2.74	2.99
Black pepper	0.72	0.66	0.94
Cashews	3.29	3.20	3.66
Rubber	2.26	2.38	3.31
Aquaculture	8.63	8.4	8.89
Wooden/furniture	10.52	13.1	15.96
....	....	....	....
Total	41.28	41.20	48.67

## 2. Provincial level agricultural value chains: from \$US 500 million/year

3. One Commune One Product (OCOP): some 10000 products with high quality, comparative advantage, rural job creation value chains



# Strong political commitment and opportunities for sustainable commodity development

## Effective governance systems

Integrated land use planning, real-time monitoring and response  
(Carbon footprint app.)



## Effective platforms

Dialogue inside and across sectors + public-private  
(PSAV, SRP)



## Standards and traceability

Place of origin ensures deforestation-free commodities  
Global GAP, etc.



## Enabling Factors for LC crop VCs



## Financial mechanisms

Innovative and aligned investments to promote outcomes

Carbon market/bonus or taxes.

## Improved models for all land uses

Plantation, natural forest, agriculture land

Agroforestry, EbA, etc.

## Monitoring and evaluation system

Compatible with new Planning Law, ensures commitments can be demonstrated and tracked



## The issues and challenges

- A limit and a lack of technical training/technology transfer/availability of technical know-how or accessibility to sources of providing and material/information;
- Tools and capacity in analyzing economic feasibility, developing cost-effective investment plan in up-scaling low carbon crop value chain developed;
- Logistics connection, technical costs and /information/funding/access to land and infrastructure and market information and green/low carbon, deforestation free product markets/premium;
- Economic incentive for development of sustainable/ LC crop value chains;
- Risk bearing/sharing among different stakeholders/value chain actors is also important when promoting new technologies/sustainable solutions;
- Resource mobilization/ a start-up innovation fund/ Start-up innovative incubator for up-scaling;
- There should be a policy mechanism in place to mobilize/incentivize private sector to invest in up/out scaling practices that achieve LC/Green AV/sustainable agriculture