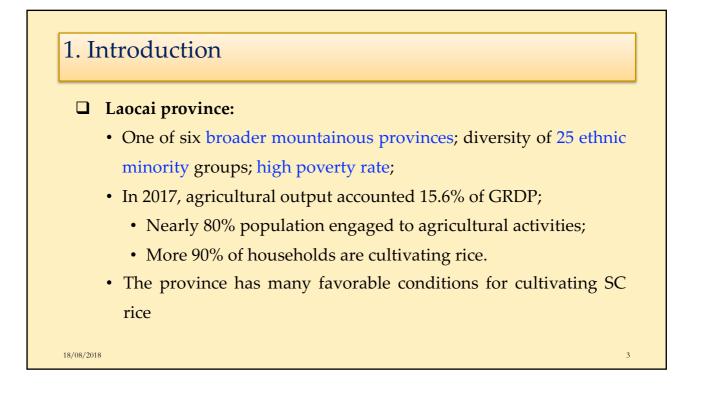


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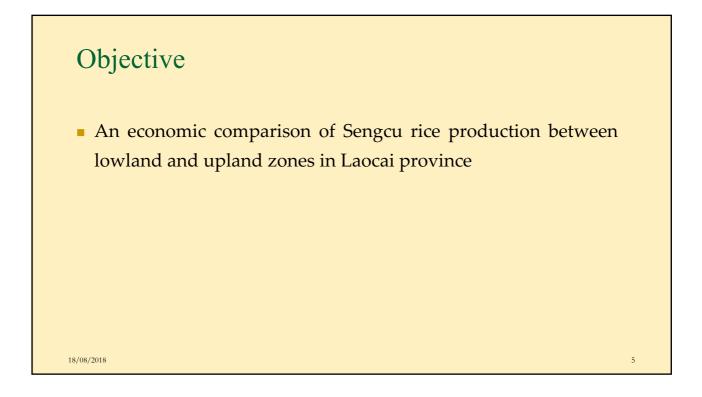


1. Introduction

General Sengcu rice (SC) production in Laocai

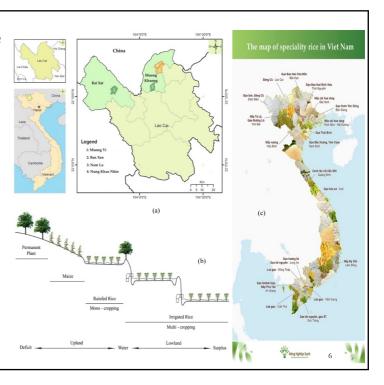
- Good variety;
- Cultivated in two kinds of ecological zone (i.e., lowland and upland).
- One of spearhead products because of its high economic value.
- However, the share of SC rice remains low and increase slightly because there are many challenges in production (i.e., pre- and post- harvest) and marketing regarding financing shortage.

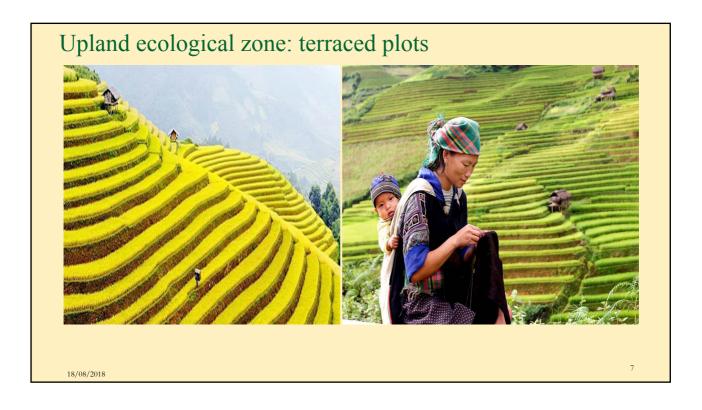
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2. Methodology: Research site

- Selection of districts and communes: the largest areas of SC rice production, existing two kind of ecological zones (i.e. upland/ rainfed and lowland/ irrigated).
- The number 1 and 2 are lowland communes (Muongvi and Banxen), The number 3 and 4 are upland communes (Lungkhaunhin and Namlu communes).
- Seng Cu is the unique rice specialty in Viet Nam, it has the highest selling price in the domestic market. https://vnexpress.net/thoi-su/ban-do-cac-loai-gao-dac-san-oviet-nam-3768497.html







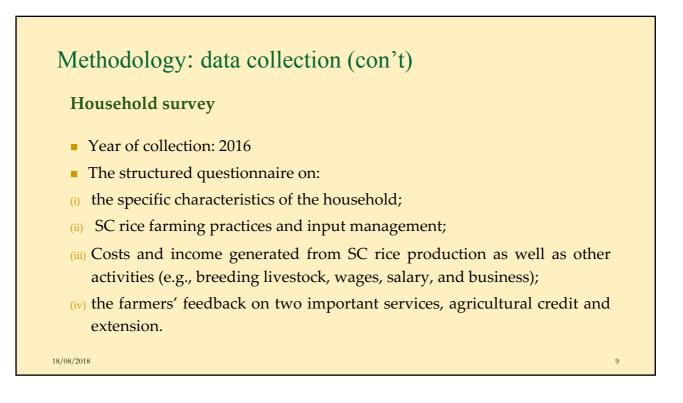
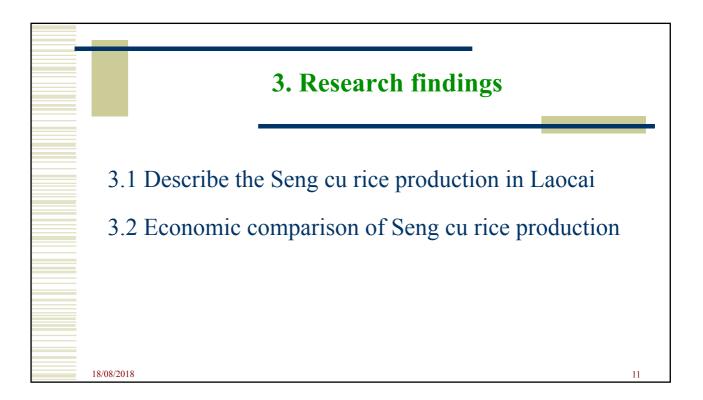
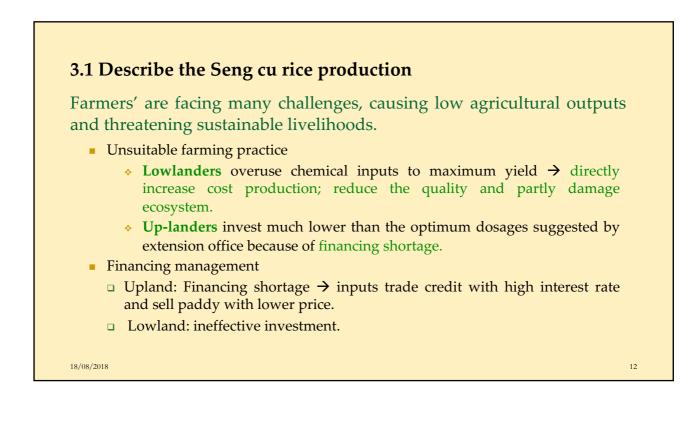
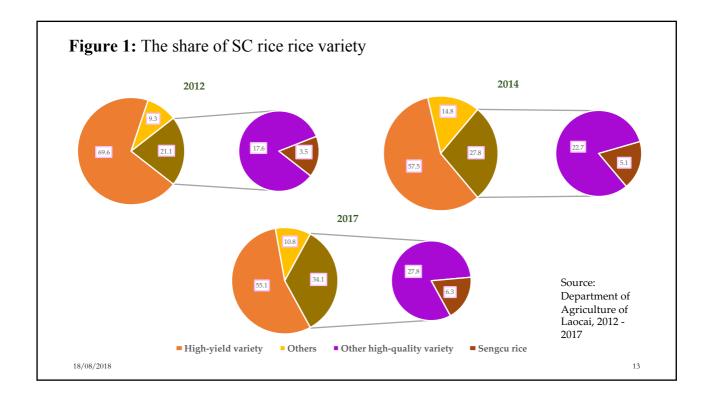


Table 1. Number of interviewees in the household survey						
Name of commune	Upland (Rain-fed)	Lowland (Irrigated)	Total			
Muongvi (1)	0	41	41			
Banxen (2)	39	39	39			
Nungkhaunhin (3)	35	0	35			
Namlue (4)	45	0	45			
Total	80	80	160			







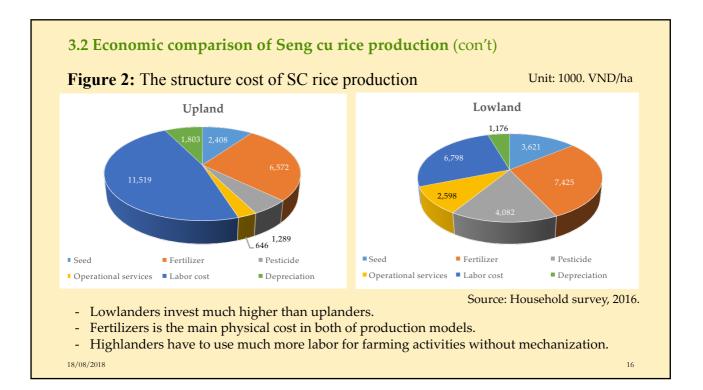
3.2 Economic comparison of Seng cu rice production

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Items	Unit	Upland (n = 80)	Lowland (n = 80)	All (n = 160)	T-Test Ratio		
Y: Productivity	Kg/ha	4,378	5,318	4,848	0.00		
X ₁ : Seed rate	Kg/ha	55.72	48.00	51.86	0.00		
X ₂ : Manure	Kg/ha	4324	3833	4078	0.06		
X ₃ : NPK	Kg/ha	768.2	1019	893.6	0.00		
X ₄ : Urea	Kg/ha	134.7	138.6	136.6	0.32		
X ₅ : Pesticide	000 VND/ha	1209	4082	2686	0.00		
X ₆ : Labor	Man-day for optional works/ha	37.71	31.51	34.61	0.05		
Source: Household survey, 2016.							
2018							

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Table 3. Main characteristics in Sengcu rice production. (extracted)							
	Westeller	Upland (n = 80)		Lowland (n = 80)		Combined (n = 160)	
	Variables	Coefficients	SE	Coefficients	SE	Coefficients	SE
	Constant	8.50 ***	0.45	8.51 ***	0.24	8.24 ***	0.31
On-farm factors	X ₁ : Seed rate	-0.17 ***	0.05	-0.16 ***	0.01	-0.21 ***	0.05
	X ₂ : Org. fertilizer	0.05 **	0.02	0.01 ***	0.00	0.02 **	0.01
	X ₃ : NPK composite	0.13 ***	0.03	-0.02	0.05	0.10 ***	0.02
	X ₄ : Urea fertilizer	-0.08 ***	0.03	-0.03 **	0.01	-0.02	0.02
	X ₅ : Pesticide	-0.03	0.02	-0.02 **	0.01	0.04 ***	0.01
	X ₆ : Labor	0.02	0.02	0.06 **	0.02	0.04 **	0.02
Specific- farm factors	Z ₂ : Gender	0.20 ***	0.08	0.01	0.05	0.14 ***	0.05
	Z ₃ : Education	-0.02	0.01	-0.01 *	0.01	-0.01	0.01
	Z ₅ : Experience	-0.05 **	0.02	-0.01	0.01	-0.04 ***	0.01
	Z ₆ : Financial situation	-0.20 **	0.08	-0.07	0.05	-0.18 ***	0.07
	Z ₉ : Extension	-0.01	0.07	-0.13 *	0.08	-0.04	0.06
	Z ₁₀ : IPM adaptation	-0.04	0.06	-0.12 **	0.06	-0.14 **	0.06
	Technical efficiency	0.855		0.883		0.869	





3.2 Economic comparison of Seng cu rice production (con't)

Table 4. Economic comparison of Sengcu rice production at farm-level in Laocai

Indicators	Upland farmers	Lowland farmers	T-test
Turnover/ Price (VND/kg)	14,920	14,310	0.001***
Intermediate cost (IC) (VND/kg)	2,494	3,569	0.000***
Value Added (VA) (VND/kg)	12.506	11,111	0.001***
% IC	68.44	43.52	
% VA	61.32	50.97	

Note: figures calculated for 1 kg of dried paddy IC including the cost of intermediate goods and services

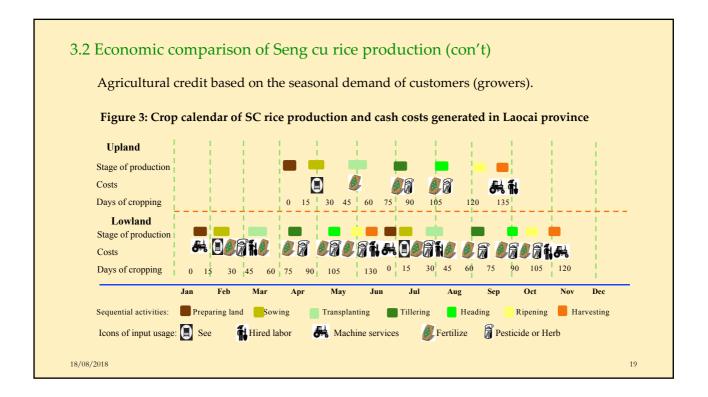
Source: HH survey, 2016

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Upland rice: much better quality but its price is slightly higher than others because of their limited capacity of marketing skill and financing shortage. → Enhance their market knowledge and diversify forms of credit or suitable credit

schedule.

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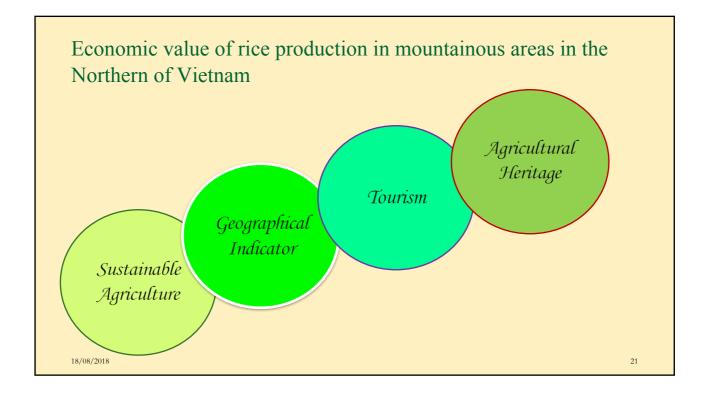
4. Conclusions and recommendations

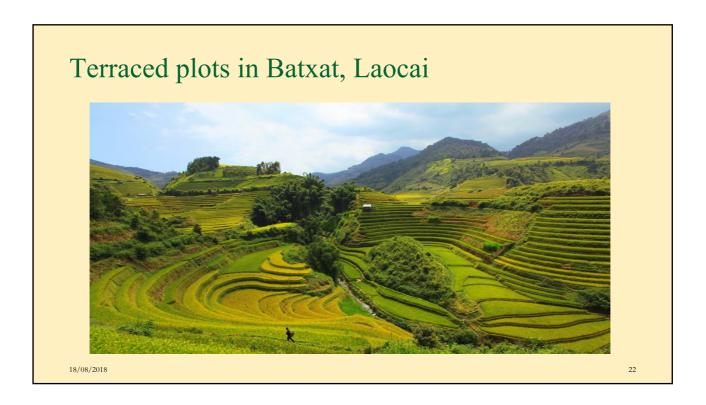
Farmers:

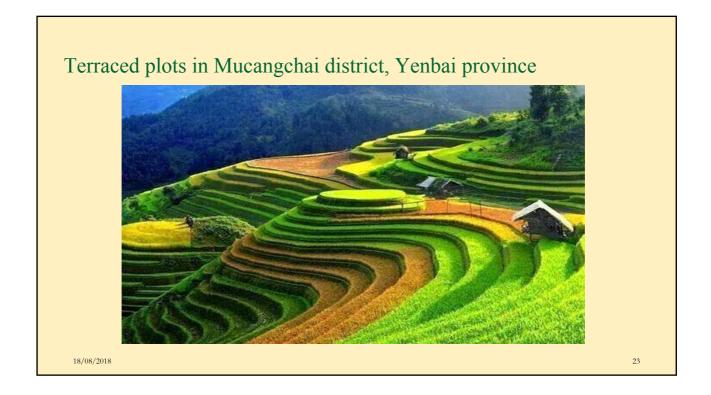
- Lowlanders has higher the economic benefit than up-landers, although their quality of rice seems lower.
- Reduce seed rate, nitrogenous fertilizer, and pesticides, concurrently increasing organic manure and time for applying advanced techniques in order to increase paddy productivity.
- **Policy-makers:** provide effectively three kinds of agricultural services.
 - Irrigation: invest more in uplands.
 - extension: update and localize the demand of specific production zone.
 - Credit: design to meet with the seasonal demand of crop calendar.

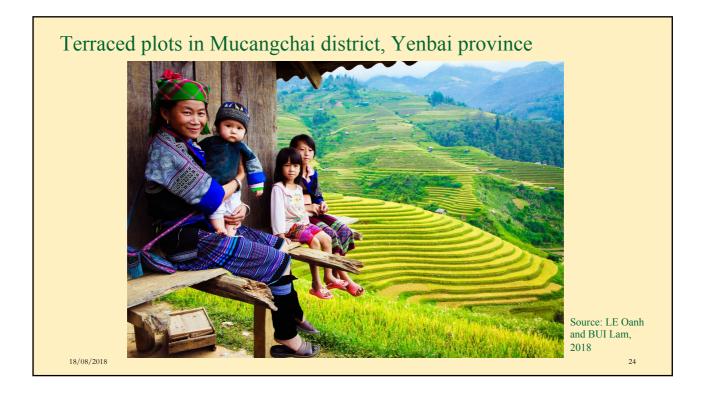
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Terraced plots in Sapa district, Laocai province



https://travel.com.vn/tin-tuc-du-lich/cung-duong-vang-mua-lua-chin-dep-nhat-mien-bac-v10977.aspx 18/08/2018



