

Rural Entrepreneurship and regional development in Asia – the case of Vietnam

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- Vietnam recent development trends
- Doi Moi and its implications
- Entrepreneurship in rural Vietnam
 - Project description
 - Theoretical assumptions on entrepreneurship
 - Main research questions and methodology
 - Empirical results
 - —General characteristics and human capital
 - —Profits and employment
 - —Performance
- Conclusions

Vietnam – recent development trends







Development trends over the last 20 years

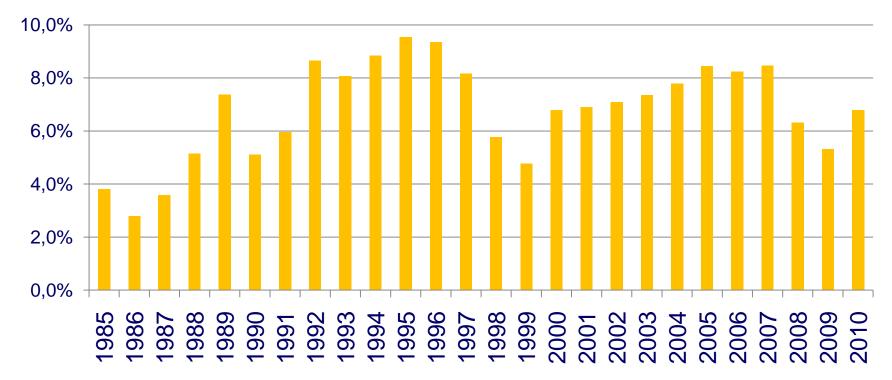
- Stable economic growth
- Drastic poverty reduction
- Structural change

Vietnam – recent development trends



Annual growth rate of GDP in Vietnam

(in % and real pricess)



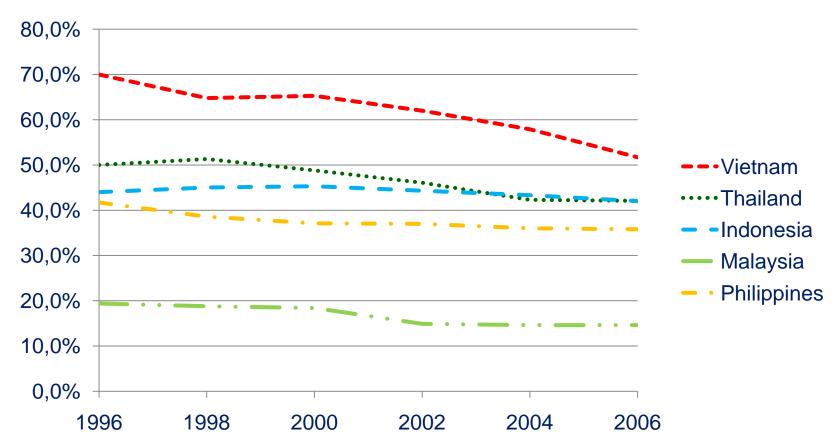
Source: WORLD BANK (2011)

Vietnam – recent development trends



Employment in agriculture

(in % of total employment)

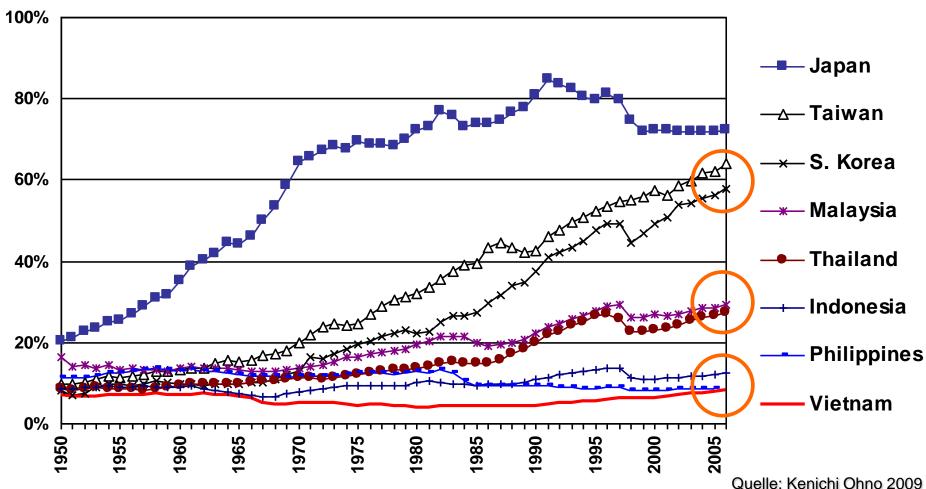


Source: WORLD BANK (2011)

Different Speeds of Catching Up

Per capita real income relative to US

(Measured by the 1990 international Geary-Khamis dollars)



Sources: Angus Maddison, The *World Economy: A Millennium Perspective*, OECD Development Centre, 2001; the Central Bank of the Republic of China; and IMF *International Financial Statistics* (for updating 1998-2006).

Stages of Catching-up Industrialization

Pre-industrialization

Initial FDI absorption

Internalizing parts and components

Internalizing skills and technology

Internalizing innovation

Creativity

Technology absorption



STAGE THREE

Management &

technology

mastered, can

produce high

quality goods

STAGE FOUR

Full capability in innovation and product design as global leader

Japan, US, EU

Agglomeration (acceleration of FDI)

Arrival of manufacturing FDI



STAGE ONE

Simple manufacturing under foreign guidance

Vietnam

STAGE TWO

Have supporting industries, but still under foreign quidance

Thailand, Malaysia

Korea, Taiwan

STAGE ZERO

Monoculture, sub sistence agriculture, aid dependency

Poor countries in Africa

Glass ceiling for ASEAN countries (Middle Income Trap)

Quelle: Kenichi Ohno 2009



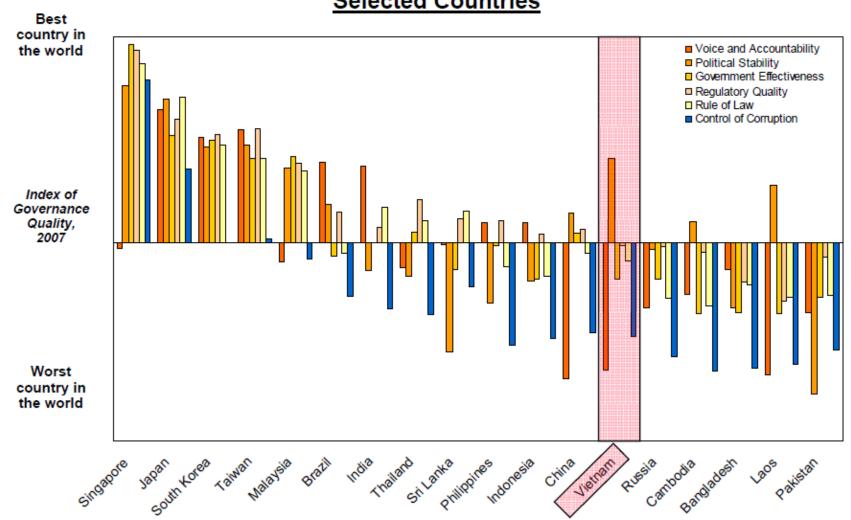
Colonial history

- Strong Chinese influence Vietnam was a province of China, unified in the 1700s.
- French influence from 1787:
- Emergence of nationalism in early 20th century.
- Japanese occupation during WWII
- Unification of Vietnam in 1975: Vietnam War
 - Civil War (1945-1954):
 - Involvement of the United States in the Vietnam War:
 - Conflicts with China (1979).



- ▶ 1986: 6. Party Congress = transformation of the economic system (doi moi = Renovation)
- Basic elements of a market economy:
 - right to private property,
 - freedom of contract and enforcement of contractual claims,
 - bankrupcy codes,
 - investment, production and distribution are based on supply and demand
 - prices of goods and services are determined in a free price system and the right to fair competition
- But: transition to a socialist market economy

Governance Indicators Selected Countries



Note: Sorted left to right by decreasing average value across all indicators. The 'zero' horizontal line corresponds to the median country's average value across all indicators.

2008/1201 – Vietnam CAON.ppt

Source: World Bank (2008)

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Entrepr











Figure 2.9 Disparities in per capita gross product have been rising between leading and lagging areas in Southeast Asia



IN: The World Bank (2009), World Development Report.

Indicator	Unit	1993	1998	2002	2004	2005
Poverty ^a	%	58.1	37.4	28.9	24.1	12.9
Urban	%	25.1	9.2	6.6	10.8	n.a.
Rural	%	66.4	45.5	35.6	27.5	n.a.
Ethnic Minorities	%	86.4	75.2	69.3	n.a.	n.a.
Food Poverty	%	24.9	15.0	9.9	7.8	10.9
Living with less						
than 1 \$ a day	%	39.9	16.4	13.6	10.6	2.2
Gini Coefficient		0.34	0.35	0.37	0.37	n.a.

Notes: a Here the national poverty line is referred to.

Source: Mausch/Revilla Diez/Klump 2011



Share of industrial output in % of total Vietnam

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Red River Delta	19,74	20,08	21,45	20,34	19,12	20,21	20,19	21,04	21,25	21,78	22,92	24,49
Northern midlands and mountain areas	4,24	3,72	3,59	3,27	2,79	2,85	2,77	2,52	2,6	2,47	2,42	2,59
North Central area and Central coastal area	8,5	8,22	7,96	7,71	7,26	7,32	7,12	6,99	6,85	7,04	6,65	6,53
Central Highlands	1,25	1,19	1,01	1,05	0,93	0,71	0,72	0,75	0,64	0,73	0,71	0,74
South East	49,65	50,64	49,45	52,65	54,78	54,61	55,65	55,89	56,62	55,55	55,19	53,3
Mekong River Delta	11,18	10,47	10,34	9,67	10,55	9,59	8,81	8,35	7,96	8,83	8,74	9,25
NEC.	5,45	5,67	6,21	5,29	4,57	4,71	4,74	4,43	4,06	3,6	3,37	3,2
WHOLE COUNTRY	100	100	100	100	100	100	100	100	100	100	100	100

Source: General Statistical Office 2010



Table 1: In, Out and Net Migration Rates of Regions of 1999 and 2009 Census Sample Data⁸⁵.

Region	Migration-in rate*		Migration	-out rate**	Net migration rate***		
	1999	2009	1999	2009	1999	2009	
North East	16.15	15.0	27.53	33.5	- 11.38	17.5	
North West	13.24	15.9	14.57	33.5	-1.32	- 17.5	
Red River Delta	23.28	35.0	32.61	36.7	-9.33	- 1.7	
North Central Coast	8.61	16.0	31.97	50.0	-23.36	24.6	
South Central Coast	17.02	16.0	29.74	50.6	-12.71	- 34.6	
Central Highlands	86.24	43.3	16.22	32.1	70.02	11.2	
South East	68.33	135.4	26.80	27.7	41.53	107.7	
Mekong River Delta	14.71	16.3	24.59	56.7	-9.88	- 40.4	

^{*} Migration-in rate is a ratio of number of migrants-in over total local inhabitants (per thousand)

^{**} Migration-out rate is a ratio of number of migrants-out over total local Inhabitants (per thousand)

^{***} Net migration is a ratio of net migrants (migrants-in minus migrants-out) over total local inhabitants

Urban population in % of total population

	Viet Nam	Thailand	South Korea
1950	11,6	16,5	21,4
1960	14,7	19,7	27,7
1970	18.3	20,9	40.7
1980	19.4	26,8	56,9
1990	20.3	29,4	73,8
2000	24,3	31,1	79,6
2005	26,7	32,5	80,8
2011	31, 0	34,1	83,2

PKE 2011: VN 3.600 US\$, TH 10.300 US\$, SK 32.800 US\$

Brazil: 12.200 US\$, 87 % urban population

Quelle: CIA World Factbook

Non-farm businesses in rural Vietnam

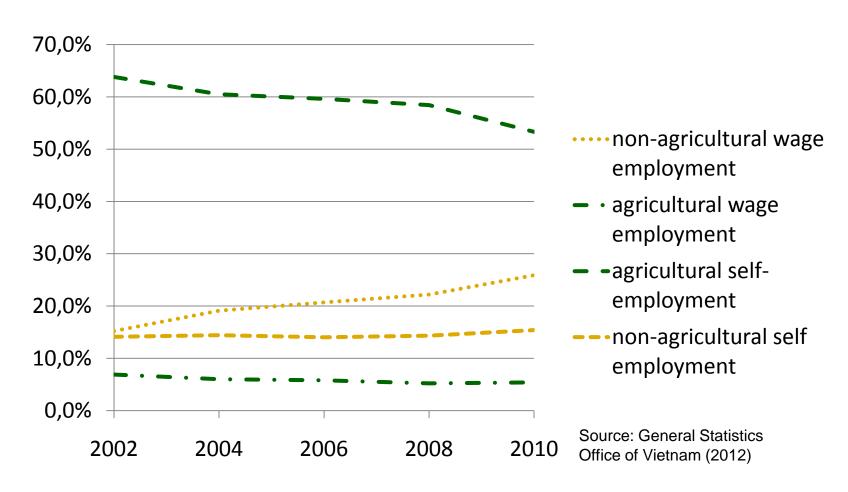




- 31.5% of households own a non-farm business in rural Vietnam (VHLSS 2008)
- 20.2% of the 1st and 46.9% of the 5th income quintile own a non-farm business (VHLSS 2008)

Non-farm businesses in rural Vietnam





Employment shares of working age population in rural Vietnam (main employment)

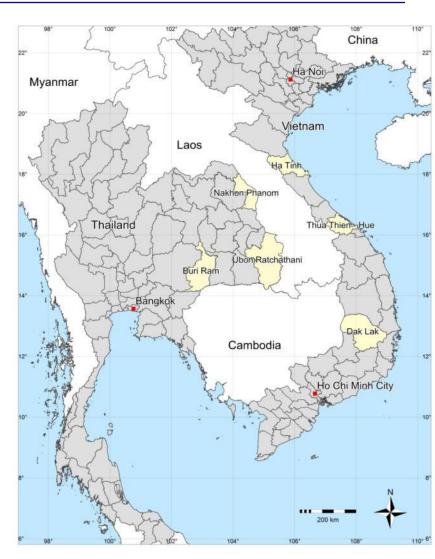
Entrepreneurship in rural Vietnam – project description



- ▶ DFG-Research group 756: "Vulnerability in Southeast Asia" (2006-2012)
- Interdisciplinary Cooperation of Leibniz University Hannover with Georg-August-University Göttingen, Goethe University Frankfurt/Main and Justus-Liebig-University Gießen

Research Area:

- 3 Provinces in Vietnam
 - Ha Tinh, Thua Thien Hue and Dak Lak
- 3 Provinces in Northeast Thailand
 - Nakhon Phanom, Ubon Ratchathani and Buriram
- Panel-Data: about 2200 Households per country in 2007, 2008, und 2010



Research project – project description

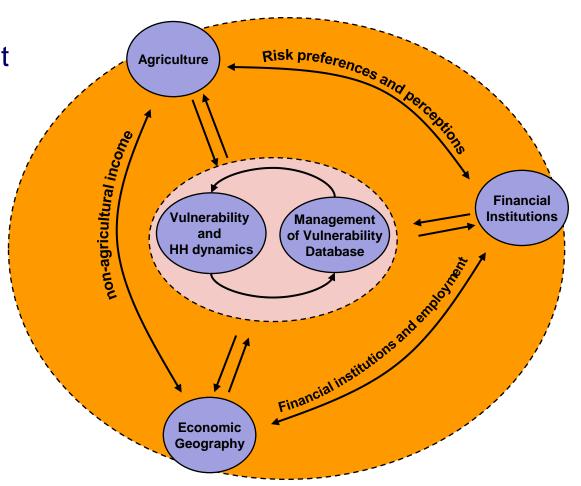


Research themes of Economic Geography sub-project

Regional development in rural areas

> Rural non-farm employment and vulnerability

- Migration and remittances
- Human capacity building and rural industrialization
- Local institutions and the performance of companies



Vietnam household survey 2010













Source: Own Photographs

- Opportunity Entrepreneurs
 - ...pulled into entrepreneurship by opportunity recognition.
- Necessity Entrepreneurs
 - ...pushed into entrepreneurship because they have no other choice to earn a living

(REYNOLDS et al. 2002)

→ But necessities and opportunities differ in rural areas in developing countries (see Livelihoods literature)

- Results for developed countries
 - Two types of entrepreneurs differ in their socio-economic characteristics
 - Opportunity entrepreneurs are more innovative.
 - Opportunity entrepreneurs are more successful
 (Amit and Muller, 1995; Arias and Pena, 2010; Block and Wagner, 2010)
- Implications for developing countries
 - Opportunity entrepreneurs as drivers of structural change in developing countries?

(Gries and Naudé, 2010; Naudé, 2010)

Main questions for the analysis

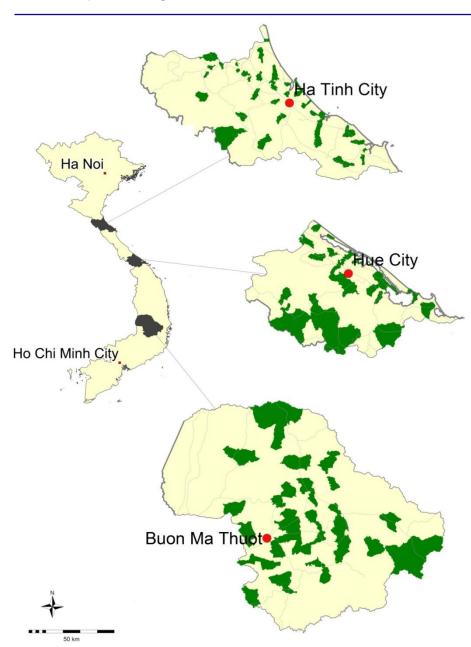


1. How common are opportunity entrepreneurs in a rural developing environment?

- 2. How do opportunity entrepreneurs differ from necessity entrepreneurs in terms of general characteristics and in terms of human capital and skills?
- 3. Are opportunity entrepreneurs more successfull in terms of profits and employment generation than necessity entrepreneurs?

Survey design and data





DFG Research Unit 756:

- Household survey in 2010 (2099 households / 8,939 individuals)
- Attached small business survey (N=346)

Data and Methodology



- Asked for most important and second most important reason for starting the business
- We then use two ways to distinguish opportunity from necessity entrepreneurs:
- 1. Use only primary reasons
- 2. Use primary and secondary reason

Differences between necessity and opportunity entrepreneurs

In rural Vietnam:

- 51 % of business opportunity-driven
 - —Previous experience in this kind of business
 - —Saw other successful business of that kind
 - —Figure that this kind of business can be successful

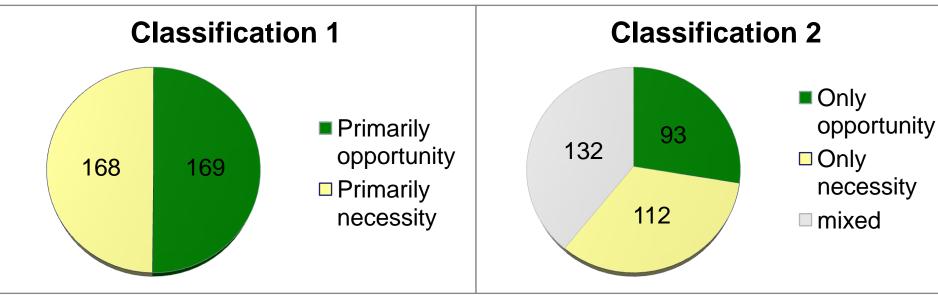
—...

- 49 % of businesses necessity-driven
 - —Insufficient income from farming
 - —Insufficient income from agricultural job
 - —Insufficient income from non-agricultural job
 - —Too old to work / bad health

—...



1. How common are opportunity entrepreneurs in a rural developing environment?



N= 346; Missings: 9

Chi² Test on uniform distribution: p>0.1

N= 346; Missings: 9;

Chi² Test on uniform distribution: p<0.05



2. How do opportunity entrepreneurs differ from necessity entrepreneurs in terms of general characteristics and in terms of human capital and skills?



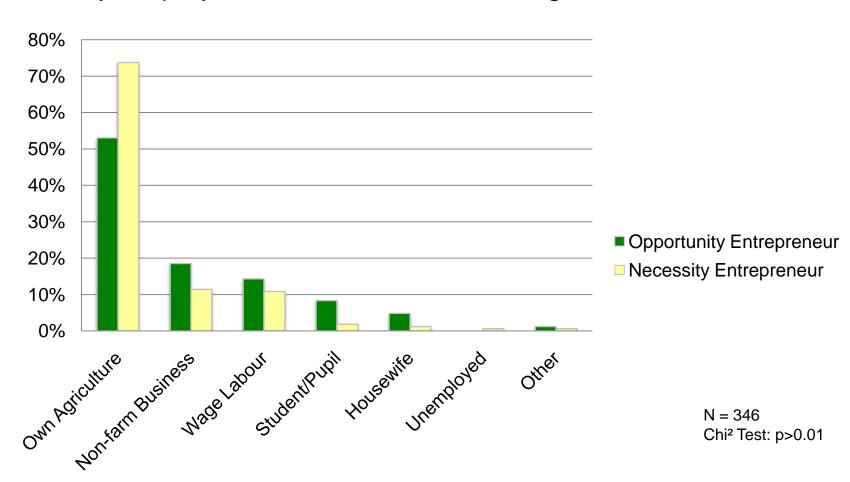
Commonalities:

- Same sectoral structure
 - Retail (27.8% vs. 25.0%)
 - Wholesale (10.1% vs. 20.2%)
 - Handicrafts (11.8% vs. 10.7%)
 - Food processing (10.7% vs. 16.1%)
 - Also: petty trading, construction, taxi and transport, restaurant/cafe/hotel, rice mills and repair shops.
- Age of the owner (43.3 vs. 44.3)
- Female gender (59.8% vs. 67.9%)
- Ethnic minority (3.0% vs. 6.6%).



Differences

Primary employment status before starting the business





Differences:

Compared to necessity entrepreneurs, opportunity entrepreneurs are...

- ...less often have an agricultural background (53.0% vs. 73.7%, with p<0.01)
- ...are better educated (8.1 vs. 6.6 years of schooling, with p<0.01)
- ...have more often acquired skills for the enterprise through vocational training (13.6% vs.6.6%, with p<0.05).
- ...are more often primary occupation (67.5% vs. 56.5%, with p<0.05)

Profits and employment



3. Are opportunity entrepreneurs more successfull in terms of profits and employment generation than necessity entrepreneurs?

Mean profits per month

- Opportunity entrepreneurs: 345.8 USD
- Necessity entrepreneurs: 235.5 USD

(p<0.01)

Mean number of non-family employees

- Opportunity entrepreneurs: 0.6 employees
- Necessity entrepreneurs: 0.2 employees

(p<0.01)

Performance



Multivariate regression models (OLS) and Instrumental Variable regression with control variables:

General characteristics:

- 10 sectoral dummies
- Business age
- Initial investment (In)
- Education
- Vocational skills
- Female
- Minority
- Natural shocks

Locational characteristics

- Non-farm wage rate
- Distance to Market
- Distance to intermediate city (In)
- Two lane road
- Thua Thien Hue
- Dak Lak

- → Results confirmed for profits per month
- → Results <u>not</u> confirmed for employment

Performance



Motivation as determinant of business sucess

	Profits	Profits	Employees	Employees
	classification 1	classification 2	classification 1	classification 2
Motivation:				
Primarily opportunity (vs. primarily necessity)	0.14*** (2.7)		0.05 (0.9)	
Opportunity only (vs. necessity only)		0.12** (2.0)		0.07 (1.2)
Mixed (vs. necessity only)		0.22*** (4.0)		-0.00 (-0.1)
N	318	318	326	326
F statistic	7.71	7.94	9.19	8.88
R ²	0.39	0.40	0.42	0.43
adjusted R ²	0.34	0.35	0.38	0.38
LR test Motivation	7.20***	8.01***	0.89	1.10
LR test Individual characteristics	3.83***	3.64***	9.66***	9.71***
LR test Locational characteristics	2.40**	2.50**	0.87	0.87

Notes: Contorl variables omitted. For profits, the natural logarithm was used and cases with negative or zero profits/sales had to be excluded. Displayed are standardised coefficients. t statistics in parentheses p < 0.10, p < 0.05, p < 0.01

Source: Own calculations based on DFG-FOR 756 Household Survey 2010.

Conclusions



Necessity / opportunity entrepreneurship concept suitable in a rural developing context if contextual specifics are taken into account

- Opportunity and necessity entrepreneurs have a limited capacity to generate non-farm employment for other households.
- Opportunity entrepreneurs have greater entrepreneurial skills.
- Opportunity entrepreneurs generate higher profits
- → Opportunity entrepreneurs scarce resource at the 'bottom of the pyramid' (Prahalad, 2005)

Conclusions



Different policies for different needs of opportunity and necessity businesses.

Support of necessity businesses may have greater impact on livelihoods and poverty reduction.

Support of opportunity businesses has greater potential for endogenous non-farm growth and employment.



Thank you for listening!

Literature



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Industrial production and ownership forms

		1995			2008			
		State	Non-state	FDI	State	Non-state	FDI	
WHOLE COUNTRY		50,3	24,6	25,1	24,9	34,9		40,3
Red River Delta		60,9	24,5	14,6	22,9	34,7		42,4
Northern midlands and mountain areas		72,7	18,1	9,2	44,8	41,9		13,3
North Central area and Central coastal area		58,6	35,3	6,1	27,8	51,8		20,4
Central Highlands		34,3	58,6	7,1	16,4	71,7		11,9
South East		38,8	19,7	41,5	18,3	27		54,7
Mekong River Delta		45,7	46,6	7,7	20,3	64,4		15,3

Source: General Statistical Office 2010



General characteristics

	Classification 1			Classific	cation 2		
	Primarily opportunity	Primarily necessity		Only opportunity	Only y necessity	Mixed	
	Mean/ Share	Mean/ Share	t-test / chi²-test	Mean/ Share	Mean/ Share	Mean/ Share	F-test / chi²-test
Age of owner	43.3	44.3	-0.7	43.1	44.1	44.0	0.2
Female	59.8%	67.9%	2.4	61.3%	67.9%	62.1%	1.2
Ethnic minority	3.0%	6.6%	2.4	2.2%	6.3%	5.3%	2.0
Bad health status	9.5%	17.9%	5.0**	8.6%	17.0%	14.4%	3.1
Age of business	9.6	8.2	1.7*	9.7	7.9	9.2	1.8
Registration	50.3%	38.7%	4.6**	51.6%	39.3%	43.9%	3.2
Is primary occupation of the owner	67.5%	56.6%	4.3**	72.0%	56.3%	59.9%	5.8*
Days worked in business per month	24.6	23.4	1.7*	23.8	23.2	24.8	1.57
N	169	168	•••••	93	112	132	

Notes: T-Test or F-Test was calculated for comparing group means, Pearson Chi² test was calculated for comparing shares. significant at the 10% level. significant at the 5% level. significant at the 1% level. Source: Own calculations based on DFG-FOR 756 Household Survey 2010.

General characteristics and human capital



Table: Sectoral Distribution

	Opportunity	Necessity	chi²-test
Rice Mills	4.7%	2.4%	1,4
Handicrafts	11.8%	10.7%	0,1
Repair shops	5.3%	3.0%	1,2
Construction	5.3%	1.8%	3.1 [*]
Food processing and selling	10.7%	16.1%	2,1
Restaurant/cafe/hotel	6.5%	3.0%	2,3
Retail-Shop (sales store)	27.8%	25.0%	0,3
Petty trader (sales on street)	7.1%	8.3%	0,2
Wholesale	10.1%	20.2%	6.8***
Taxi and transport	2.4%	6.6%	3.5 [*]
Others	8.3%	3.0%	4.5**
Total	100%	100%	
N	169	168	

Notes: T-Test or F-Test was calculated for comparing group means, Pearson Chi² test was calculated for comparing shares. * significant at the 10% level. ** significant at the 5% level. *** significant at the 1% level.

Source: Own calculations based on DFG-FOR 756 Household Survey 2010.



Education and skills

	Classification 1			Classific	ation 2		
	Primarily opportunity	Primarily necessity		Only opportunity	Only necessity	Mixed	
	Mean/ Share	Mean/ Share	t-test / chi²-test	Mean/ Share	Mean/ Share	Mean/ Share	F-test / chi²-test
Education of entrepreneur (years)	8.1	6.6	4.2***	8.3	6.6	7.3	6.5***
Acquired skills in school	3.0%	1.2%	1.3	3.2%	0.9%	2.3%	1.4
Acquired skills in vocational training	13.6%	6.6%	4.6**	12.9%	8.9%	9.1%	1.1
Acquired skills in farming	9.5%	11.9%	0.5	8.6%	8.9%	13.6%	2.0
Acquired skills in previous business	14.2%	4.8%	8.7***	9.7%	3.6%	14.4%	8.3**
Acquired skills in wage labour	4.1%	3.6%	0.1	5.4%	2.7%	3.8%	1.0
Acquired skills in family	60.4%	62.5%	0.2	54.8%	62.5%	65.2%	2.5
N	169	168	•	93	112	132	•

Notes: T-Test or F-Test was calculated for comparing group means, Pearson Chi² test was calculated for comparing shares. *significant at the 10% level. *significant at the 5% level. *significant at the 1% level. Source: Own calculations based on DFG-FOR 756 Household Survey 2010.



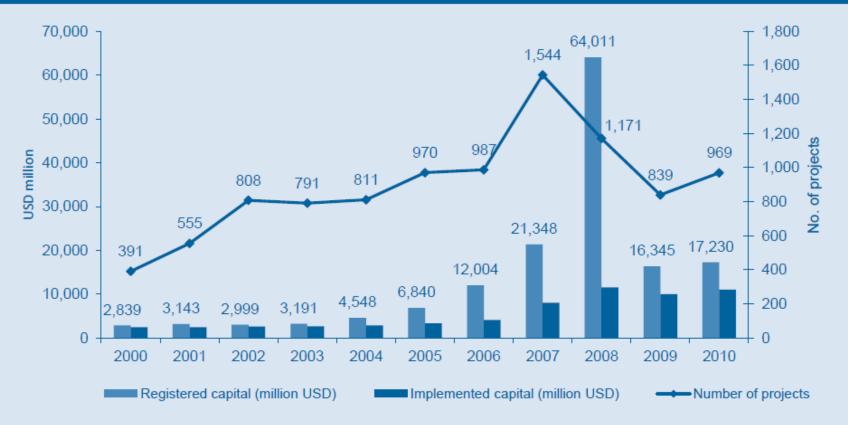








Figure 2.3 Trend in the number of FDI projects and capital flows



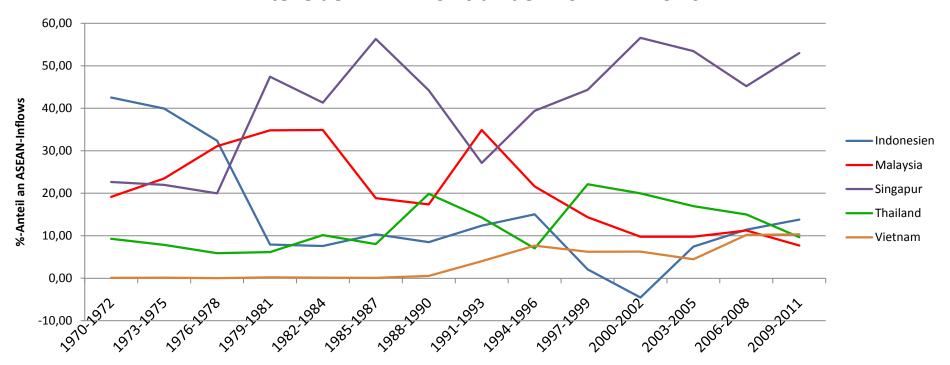
Source: General Statistics Office, Viet Nam

Ausländische Direktinvestitionen und staatliche Entwicklungspolitiken – Das Beispiel Malaysia



3. Malaysia in der "Middle-Income Trap"?

Anteile der ADI-Inflows an den ASEAN-Inflows



Quelle: eigene Darstellung basierend auf UNCTADSTAT

 Mitte 70er bis Mitte der 90er: Malaysia neben Singapur als attraktivste Region in der ASEAN-Region
 18.07. Verliert seitdem kontinuierlich and (relativer) Bedeutung!