Workshop Large-Scale Infrastructure and Poverty Reduction



# Impact Assessment of Transport Infrastructure Projects in Northern Vietnam

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## **Study Objective**

- Assessment of economic and social impacts of two JBIC assisted projects: Highway No.5 and Hai Phong Port
- Examination of the role of large scale economic infrastructure in achieving economic growth and poverty reduction
- Contribution to the recent effort to extend the scope of the CPRGS

## **The Projects**

#### (1) National Highway No.5 Improvement Project

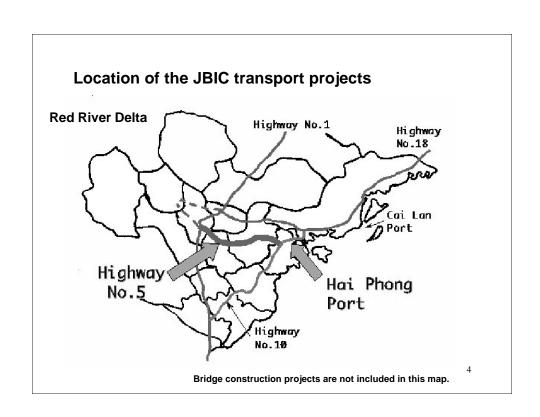
1994-2000: all phases completed (Jan. 1999: practically in use) JPY 20.961 billion (US\$175 million), Phase 1 - 3

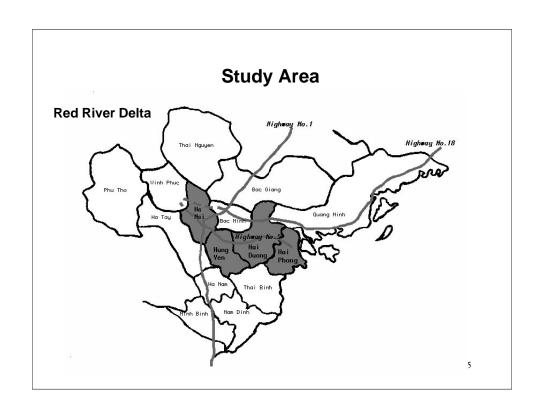


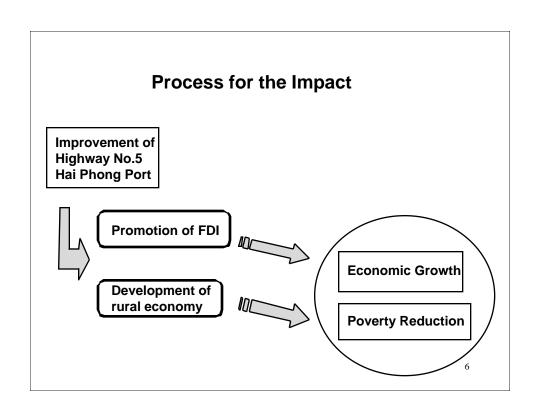


#### (2) Hai Phong Port Rehabilitation Project

1994-2000: Phase 1 completed JPY 3.975 billion (US\$ 33 million), Phase 1







## Framework of the presentation

Economic Growth and Poverty Reduction in the Red River Delta

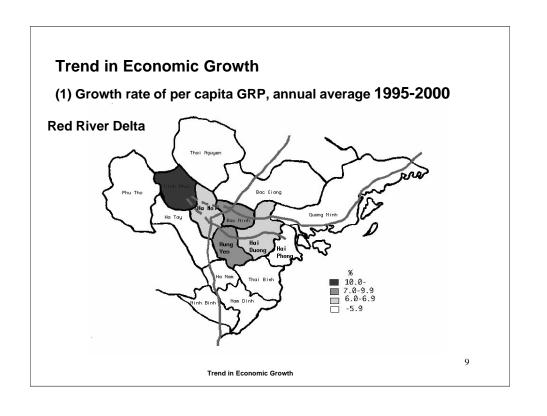
Impact from FDI

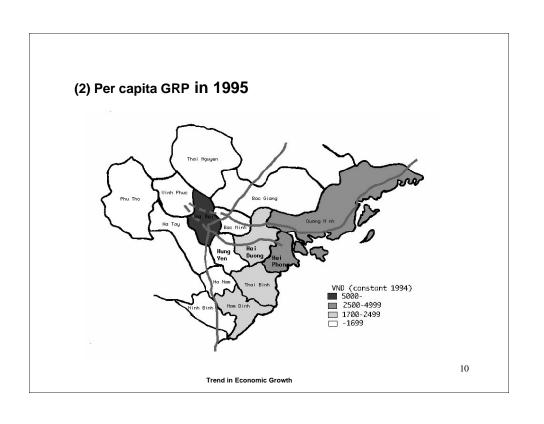
Impact from Rural Development

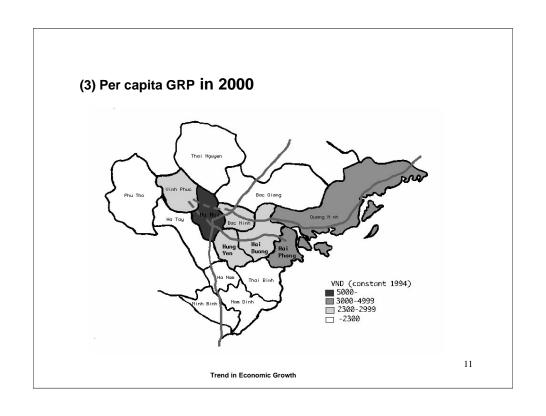
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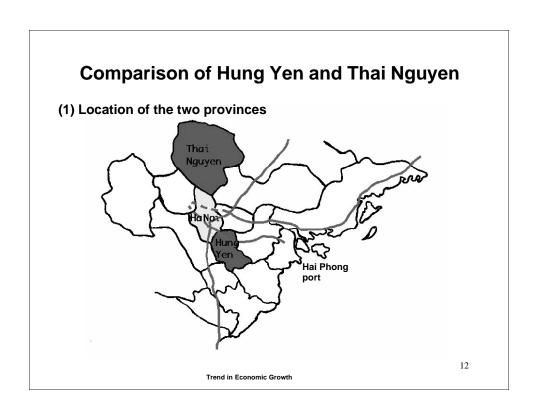
# Economic Growth and Poverty Reduction in the Red River Delta

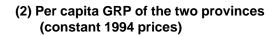
-Connected vs. unconnected -

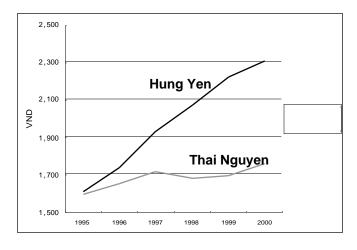












Trend in Economic Growth

#### (3) Sector composition of GRP in the two provinces

(%)	1995	1996	1997	1998	1999	2000
Hung Yen						
Agriculture	53	56	46	45	43	43
Industry	15	15	22	24	29	27
Service	33	29	32	30	29	30
Total	100	100	100	100	100	100

Thai Nguyen

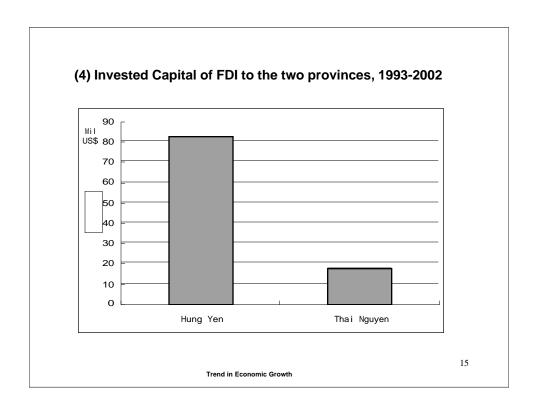
Agriculture	30	32	31	33	35	35
Industry	35	34	34	33	30	30
Service	36	34	35	35	35	35
Total	100	100	100	100	100	100

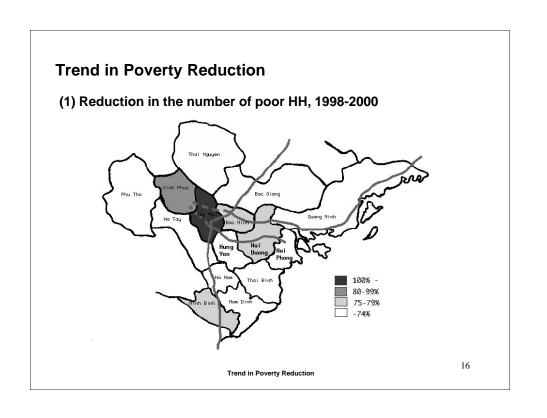
Source: Figures on Social Development in "Doi Moi" Period in Vietna

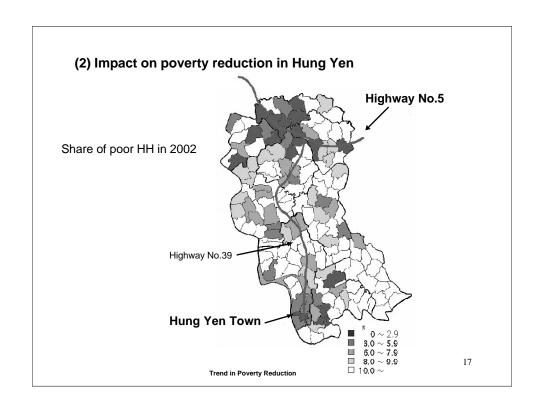
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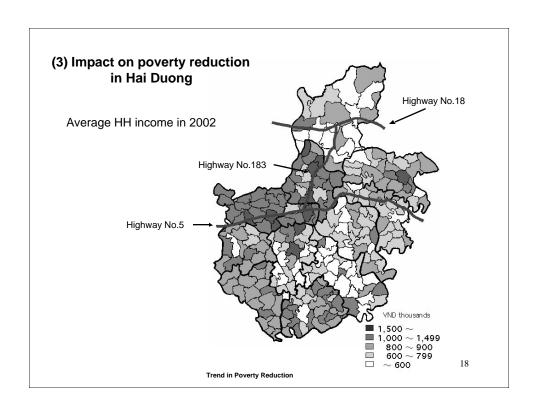
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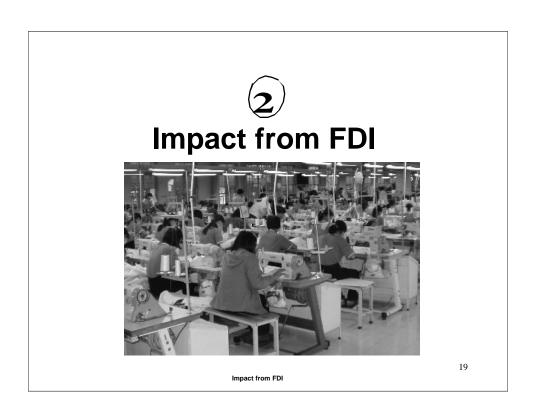
Trend in Economic Growth

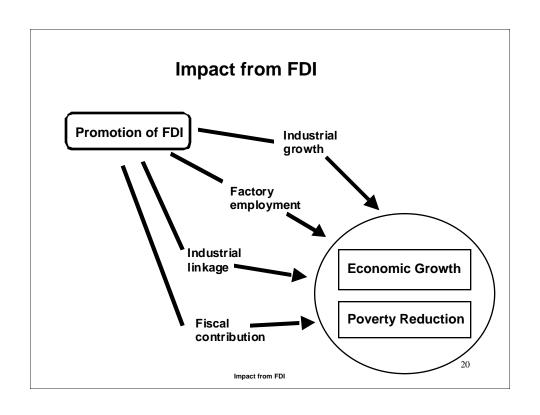


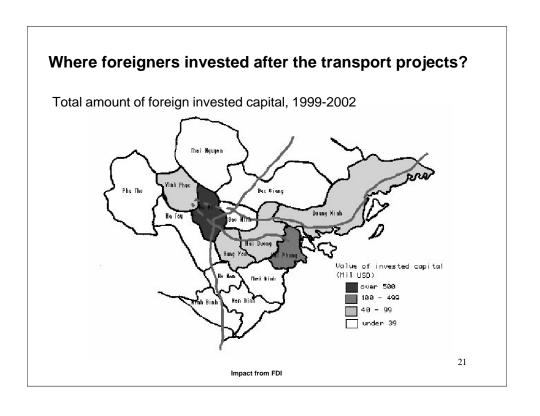












## Frequent use of well-developed transport infrastructure

FDI	Productioin	Main	Export	Import	Use of	Use of	Business
Type	Site	Market	channe I	channe I	HP port	HW5	examples
1	Ha Noi		Hai Phong	Hai Phong	XX	XX	OA products
2	Ha Noi	Local	Hai Phong	Hai Phong	XX	XX	sanitary ware
3	Ha Noi	Local		Hai Phong	XX	X	glass ware
4	Ha Noi		Internet				software
5	Ha Noi		Noi Bai	Hai Phong	Χ	Χ	electronic parts
6	Hai Phong		Hai Phong	Hai Phong	XX		clothes, bags
7	Hai Phong	Local		Hai Phong	XX	Χ	glass container
8	Hai Phong	Local	Hai Phong	Hai Phong	XXX	XX	heavy metal structure
9	Hai Phong		Noi Bai	Noi Bai		XX	jewely
10	Vinh Phuc	Local		Hai Phong	Χ	Х	motorbike

Note: X shows frequency of use.

Source: Interview survey by the study team.

22

Impact from FDI

#### Quantitative assessment of the growth impact

Assumption

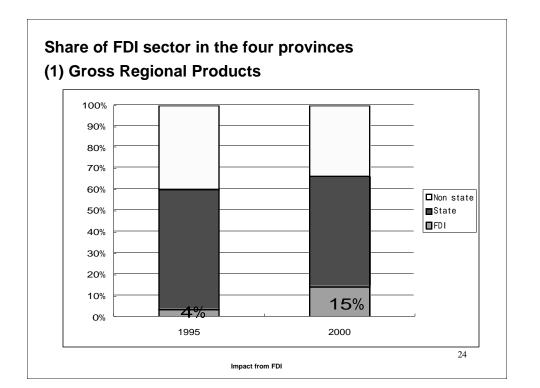
- (1) GDP is estimated with the Cobb-Douglas production function
- (2) 90% of FDI would not be realized in the region without the projects

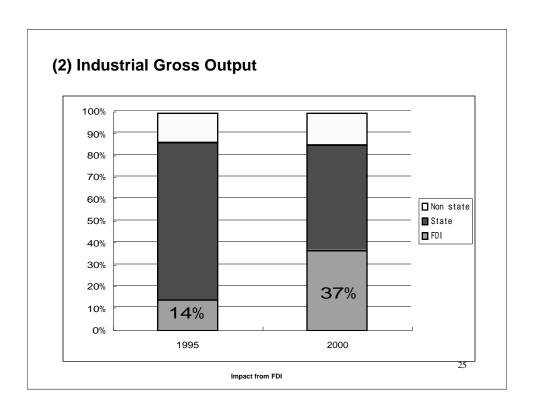
Contribution of FDI on GDP growth in 2001

Contribution of FDI on GRP growth in the Red River Delta in 2001

23

Impact from FDI





## **Creation of Employment by FDI**

Amount of employment at major industrial zones

	Current	Expected
Thang Long	3,766	3,200
Sai Dong B	5,867	-
Noi Bai	1,269	-
Nomura Hai Phong	3,017	2,500
Total	13,919	

Amount of employment at provincial industrial zones

Hung Yen IZs

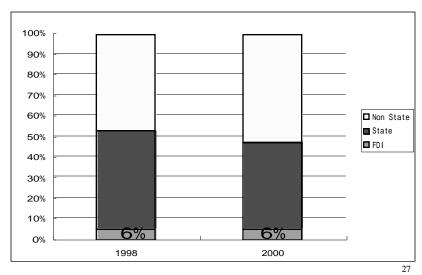
Current
5,800 (FDI)
7,000 (Domestic private)

26

Impact from FDI

## Share of FDI sector in the four provinces

#### (3) Industrial labor force



Impact from FDI

### Linkage with local industry

Mostly service business e.g. Transport, Real estate, catering, commerce



Linkage with local manufacturing industry

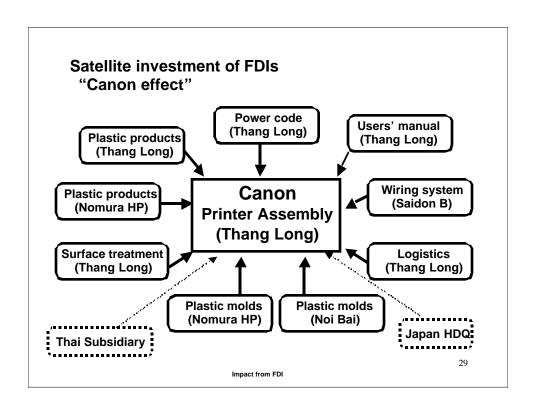
- very limited,
- parts or components are hardly procured from local producers.

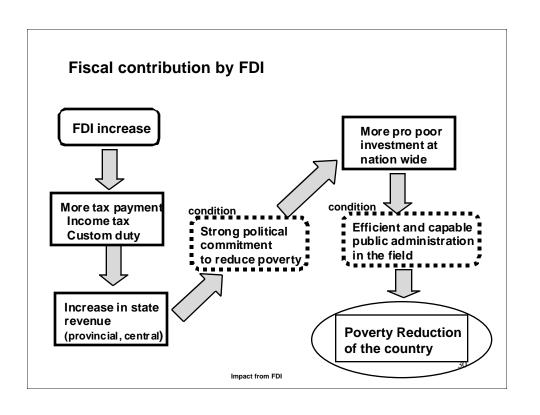
Types of FDI with significant linkage with local industry

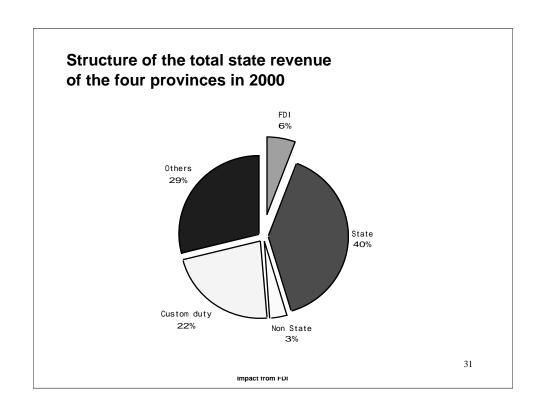
- a) Natural resource based FDI
  - e.g. cement, sanitary ware
- b) Food processing FDI
  - e.g. snack noodle, confectionary

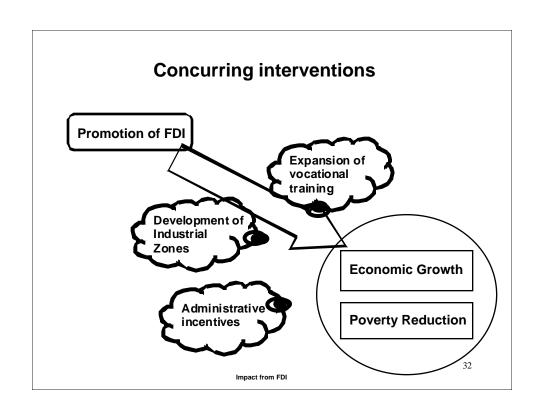
28

Impact from FDI





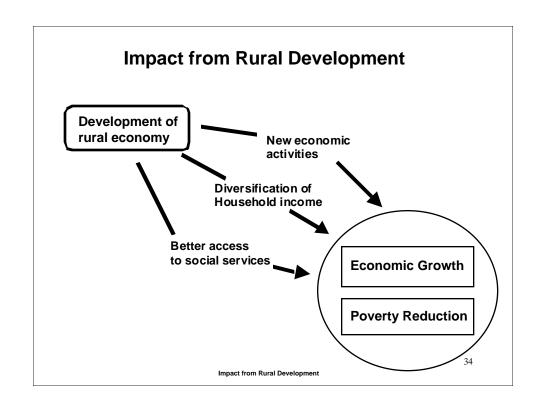


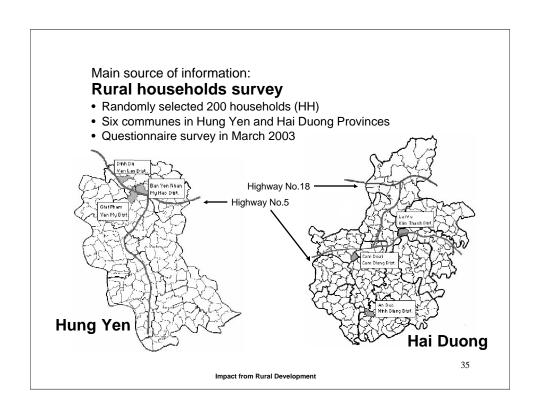


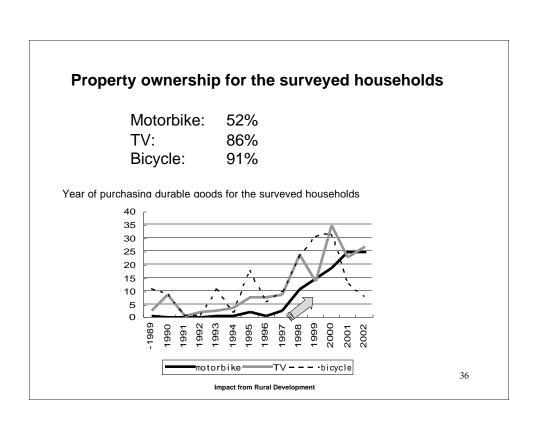


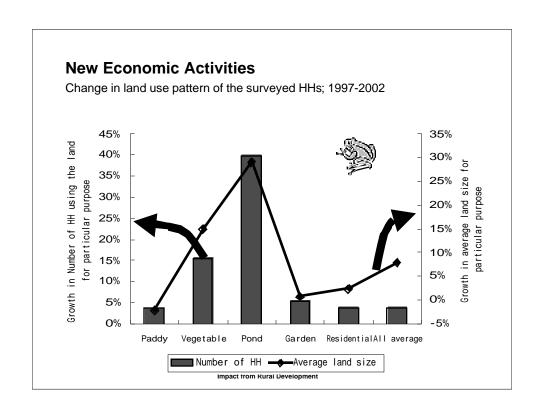


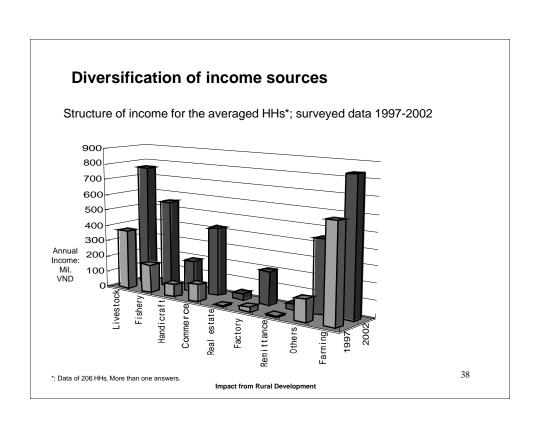
Impact from Rural Development

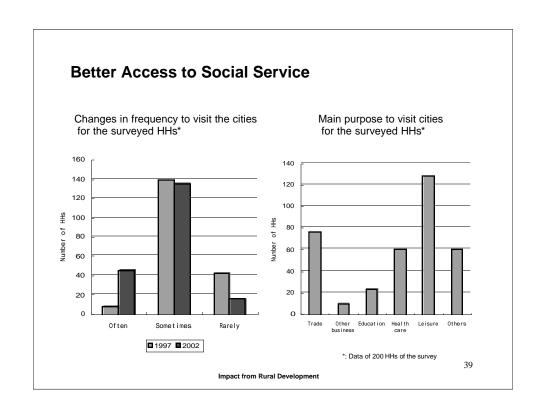


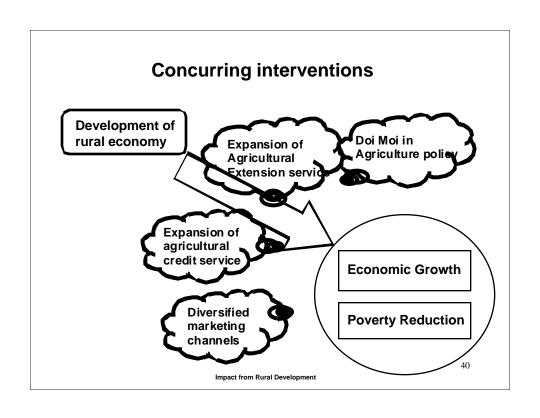


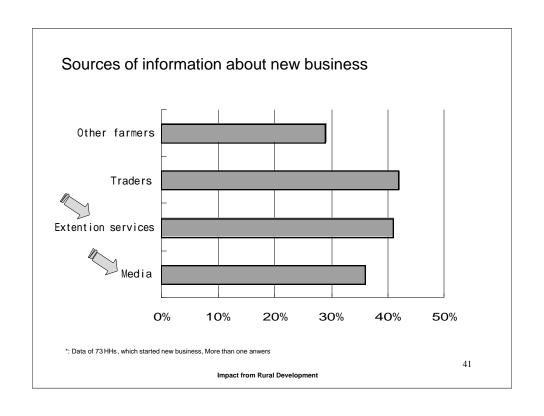


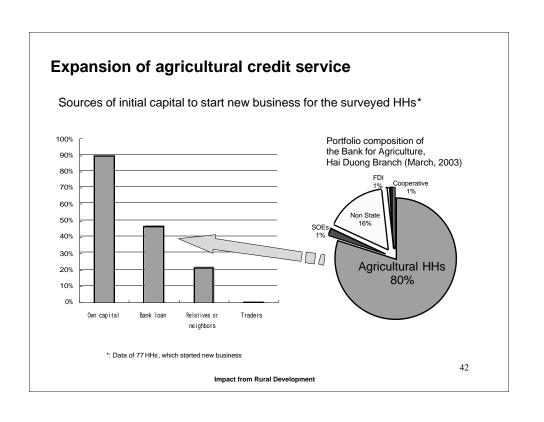


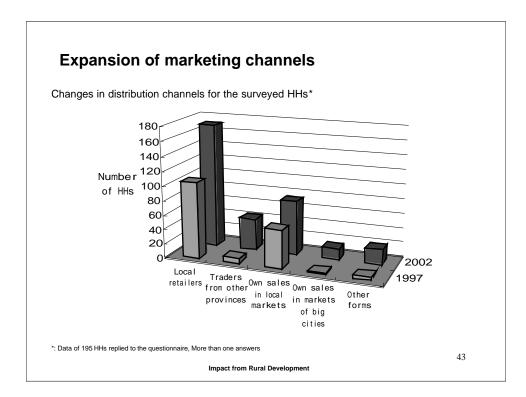












### **Concluding remarks**

#### (1) Impact of Highway No.5 and Hai Phong Port

Ha Noi - Hai Phong Transport Corridor

- Strategic part of the road network in the Red River Delta
- · New axis of economic growth
- Significant reduction of poverty in the region

## **Concluding remarks**

#### (2) Impact from FDI

Significant growth impact 9.6 % increase of the GRP in 2001 Over 1/3 of gross industrial output in the region

Significant but still limited impact on poverty reduction
Increasing but small employment impact
Weak linkage with local economy
Small fiscal contribution
Larger and wider impact is expected within a foreseeable future

Frequent use of Highway No.5 and Hai Phong Port Distribution, export, import, business meeting, etc.



Highway No.5 and Hai Phong Port were preconditions.

45

#### **Concluding remarks**

#### (3) Impact from Rural Development

Significant structural transformation
Diversified income sources
Rapid expansion of new business
Local economy itself is the driving force.

Well prepared rural households

Doi Moi restructuring policy

Extension service, Credit service, etc.



Highway No.5 and Hai Phong Port were triggers.



## **END** of the presentation