University College London - The Bartlett Development Planning Unit

Presentation by Dr. Róbinson Rojas Sandford

For Session 4 of module

Managing and Planning for Development: International and National

Dimensions (Academic year 2011-2012)

4 - The process of national structural transformation. From rural to urban. Rural to urban migration and the shifting of poverty. Industrialization and environmental issues...

The process of national structural transformation (1)

The process of national structural transformation is related to the changing pattern over time of the regime of production in any society.

History of <u>social stratified societies</u> shows a shift from rural to urban production as the main activity,

thus, <u>labour force</u> and <u>created means of production</u> shift also to cities.

therefore, structural transformation generates

<u>urbanization</u> and

internal and external migration.

The process of national structural transformation (2)

Planning for development during the process of structural transformation require looking at some important relationships which are at the same time economic, social, political, cultural and moral relationships.

We can list some relationships as follows:

- 1.- between industry and agriculture, and between heavy and light industry.
- 2.- between industry in most populated regions and industry in less populated regions.
- 3.- between economic construction and defence construction.
- 4.- between the state, units of production and individual producers.

- 5.- between the central government and the regional governments.
- 6.- between the ethnic majority and the ethnic minorities.
- 7.- between the dominant political party and the rest of civil society.
- 8.- between supporters of the central government economic and political programme and its dissenters.

- 9.- between right and wrong
- 10.- between home nation and other nations.
- 11.- the relationship between national units of production and foreign capital.
- 12.- the relationship between national production and environmental sustainability.

"These relationships are all contradictions. Contradictions are everywhere in the world. Without contradictions there would be no world."

(NOTE: this list is based on Mao Zedong, 1956, "On the ten great relationships", Foreign Languages Editions, Beijing)

Some scholars distinguish two main stages of <u>migration</u>: divergent and convergent

a) The <u>divergent migration</u> stage appears during the stage of capitalist expansion in the rural sector of the economy,

and

b) The convergent migration stage is brought about by urban industrial growth.

See B. R. Roberts, 1979, "Migration, the industrial economy and collective consumption", International Social Science Journal, Vol. XXXI, No. 2, pp. 282-303

The <u>divergent pattern</u> predominated in the late XIX century and early XX century, first in Latin America, as the development of mining, plantation agriculture and the opening-up of new lands for commercial farming meant the shift of labour, seasonally, temporarily or permanently <u>within the rural sector</u> or across international frontiers;

The <u>convergent pattern</u> appears with the concentration of economic opportunities in cities due to the increasing dominance of industry in national economies bringing a steady shift in population <u>from rural to urban areas</u>

The process of national structural transformation (6)

Table 1.- Urban population avg. annual growth (%) % of total population

	1965-90	1990-07	1965	1990	2007
East Asia & Pacific	3.70	3.50	19	29	43
E. Europe & Central Asia	2.04	0.20	38	63	64
Latin America & the Caribbean	3.62	2.10	53	71	78
Middle East & North Africa	4.13	2.60	38	52	57
South Asia	3.63	2.70	18	25	29
Sub-Saharan Africa	5.56	4.00	14	28	36
Industrialized countries	1.36	1.00	71	73	77
Total urban population	2.38	2.23	38	43	50
World Population	1.91	1.37	-	-	

The process of national structural transformation (7)

Table 2.- Distribution of GDP

Agriculture (%) Industry (%)

	1965	1990	2007	1965	1990	2007
East Asia & Pacific	42	25	12	35	40	47
E. Europe & Central Asia	-	16	7	-	43	34
Latin America & the Caribbean	16	9	6	33	36	33
Middle East & North Africa	-	14	11	-	38	40
South Asia	44	31	18	21	27	29
Sub-Saharan Africa	41	19	15	20	34	32
Industrialized countries	5	3	2	42	33	26
World			3			28

The process of national structural transformation (8)

Table 3.- Distribution of GDP Services (%)

	1965	1990	2007
East Asia & Pacific	23	35	41
E. Europe & Central Asia	-	41	60
Latin America & the Caribbean	51	55	61
Middle East & North Africa	-	48	49
South Asia	35	43	53
Sub-Saharan Africa	39	47	53
Industrialized countries	53	65	72

The process of national structural transformation (9)

Table 4.- Rural population income per capita as % of GDP per capita <u>Derived from Tables 1 and 2</u>

	1965	1990	2007
East Asia & Pacific	50	30	21
E. Europe & Central Asia	-	40	20
Latin America & the Caribbean	30	30	27
Middle East & North Africa	-	30	26
South Asia	50	40	25
Sub-Saharan Africa	50	30	23
Industrialized countries	17	13	9

The process of national structural transformation (10)

From an aggregate point of view the trends are as follows:

Sector distribution of total value added (GDP) by region (percentage shares)

AFRICA	1970	1990	2008
Agriculture	24.5	18.4	16.5
Industry	32.0	35.4	40.7
Services	43.5	46.1	42.8

The process of national structural transformation (11)

From an aggregate angle the trends are as follows:

Sector distribution of total value added (GDP) by region (percentage shares)

ASIA	1970	1990	2008
Agriculture	21.7	8.7	7.4
Industry	37.9	37.8	38.0
Services	40.4	53.6	54.6

The process of national structural transformation (12)

From an aggregate angle the trends are as follows:

Sector distribution of total value added (GDP) by region (percentage shares)

EUROPE	1970	1990	2008
Agriculture	10.4	5.1	2.2
Industry	43.0	34.1	27.9
Services	46.7	60.8	69.9

The process of national structural transformation (13)

From an aggregate angle the trends are as follows:

Sector distribution of total value added (GDP) by region (percentage shares)

LATIN AMERICA & CARIBBEAN	1970	1990	2008
Agriculture	12.3	9.2	5.9
Industry	35.5	36.8	34.5
Services	52.2	54.1	59.6

The process of national structural transformation (14)

From an aggregate angle the trends are as follows:

Sector distribution of total value added (GDP) by region (percentage shares)

NORTH AMERICA	1970	1990	2008
Agriculture	3.0	2.0	1.1
Industry	33.9	27.7	22.4
Services	63.0	70.3	76.4

The process of national structural transformation (15)

From an aggregate angle the trends are as follows:

Sector distribution of total value added (GDP) by region (percentage shares)

OCEANIA	1970	1990	2008
Agriculture	8.6	4.6	3.4
Industry	36.9	28.8	28.2
Services	54.5	68.9	68.4

The process of national structural transformation (16)

From an aggregate angle the trends are as follows:

Sector distribution of total value added (GDP) by region (percentage shares)

WORLD	1970	1990	2008
Agriculture	10.0	5.6	4.0
Industry	38.3	33.3	30.1
Services	51.7	61.1	65.9
Agricultural labour force		51.6	44.6
% of national income per capita		10.9	8.9
Industry + services labour force		48.4	55.4
% of income national per capita		195.0	173.2

The process of national structural transformation (17)

About rural-urban migration (1)

In 2007 rural-urban migration accounted for around half the population growth in cities in developing countries. <u>see here</u>

"push" and "pull" factors:

Rural-urban migration is driven not only by economic factors such as <u>poverty</u> (absolute or relative) in the rural sector (<u>push</u>), but also by <u>expectations</u>, particularly among the better educated and the young (<u>pull</u>).

The process of national structural transformation (18)

About rural-urban migration (2)

There are two main types of migration sharing the "push"-"pull" factors:

- 1. <u>internal migration</u> (village town city metropolis)
- 2. <u>migration to a foreign country</u> where wages and opportunities are better at the eye of the migrant

From World Development Indicators 2008, Tables 4.2 and 6.16 Remittances from international workers migration (year 2006)

	GDP 2006	workers	workers	RECEIVED	PAID	Remit.
	US\$ mill.	remit.	remit.	as % of	as % of	NET
		RECEIVED	PAID	GDP	GDP	as % of
		US\$ mill.	US\$ mill.			GDP
East Asia & Pacific	3616708	52847	10431	1.46	-0.29	1.17
South Asia	1146716	39779	2031	3.47	-0.18	3.29
Middle East & N. Africa	734423	26697	8837	3.64	-1.20	2.44
Sub-Saharan Africa	712731	10344	2911	1.45	-0.41	1.04
Europe & Central Asia	2499359	35385	17747	1.42	-0.71	0.71
Latin America & Carib.	2964189	56860	2646	1.92	-0.09	1.83
Developing countries	11674126	221932	44603	1.90	-0.40	1.50
High Income	36794507	74844	163263	0.20	-0.44	-0.24
World	48468633	296776	207866	0.61	-0.43	

This table was updated by Róbinson Rojas on 27th October 2009 in accordance with a World Bank updating. See "About the data" from the World Bank in slides 36 and 37 below. Compare with data in slide 38.

The process of national structural transformation (19)

About rural-urban migration (3)

Cai Feng, 2000, "The invisible hand and visible feet: internal migration in China", working papers series, The World Bank, lists seven "positive" economic effects of rural-urban migration:

- 1. Sustaining rapid economic growth
- 2. Accelerating the urbanization process
- 3. Supporting new sectors with low labour costs
- 4. Feeding back to rural development
- 5. Reducing the income gap between regions
- 6. Improving human capital in rural areas
- 7. Trickle down effect on rural-non migrants

The process of national structural transformation (20)

About rural-urban migration (4)

On the negative side, some problems arise when the cities cannot absorb the surplus labour force migrating from rural areas:

- 1. The surplus labour force, now <u>urban surplus labour</u> <u>force</u>, will survive in slums, creating a marginal economy (<u>the informal economy</u>)
- 2. In industrialised countries the location of slums tend to be in the <u>inner city</u>, and in developing countries the location will tend to be in the <u>periphery</u>
- 3. The <u>informal economy</u> will support the <u>formal</u> <u>economy</u> producing cheap goods and services, and sustaining a huge pool of <u>urban surplus labour</u>.

The process of national structural transformation (21)

About rural-urban migration (5)

The most important outcomes are:

- 1. Rural poverty becomes urban poverty which creates a large supply of cheap labour which will attract domestic and foreign investments, fostering styles of industrialization to meet the economic needs of the international integrated system of production.
- 2. This styles of industrialization will be <u>dependent</u> on industrialized countries <u>finance</u>, <u>technology</u> and research & development.

The process of national structural transformation (22)

About rural-urban migration (6)

Finally, <u>heavily polluting industries from industrialized countries</u> will migrate to developing countries, among them:

Chemicals

Metallurgy

Paper

Building materials

Agribusiness

Energy

Computer processors

The process of national structural transformation (23)

About rural-urban migration (7)

Environmental degradation will accelerate as follows:

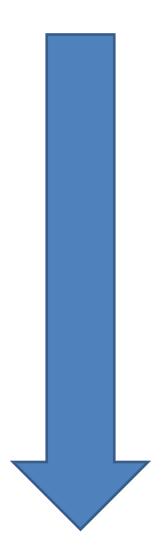
- 1. Degradation affecting humans and eco-systems within the range of the event: water pollution; water scarcity; air pollution (for example, smog, acid rain); solid waste; and hazardous waste.
- 2. Degradation affecting all living species and ecosystems on planet earth: soil degradation; deforestation; loss of biodiversity; and atmospheric changes (greenhouse effect).

The process of national structural transformation (24)

Carbon dioxide (CO2) emissions

	Million metric tons.		Per capita	m. tons
	1990	2006	1990	2007
East Asia and Pacific	3,031	6,770	1.9	3.3
Eastern Europe and Central Asia	4,822	3,087	10.2	7.1
Latin America and the Caribbean	1,037	1,361	2.4	2.6
Middle East and North Africa	575	1,113	2.5	3.3
South Asia	768	1,593	0.7	1.1
Sub-Saharan Africa	418	649	0.8	0.9
Industrialized countries	10,652	13,100	11.8	13.1
Total	21,303	27,673		

Source: World Development Indicators 2008, 2009, The World Bank



Developing countries	Total pop. mill.	Urban pop. mill.	Rural pop. mill.	Urban growth mill.	Rural urban migr. mill.	Rural migr. contri. %
1990	4324.4	1580.9	2743.5			
2007	5554.0	2460.1	3093.9	879.2	439.8	50.0
Avg. annual growth	1.5	2.6	0.7			
If 1.5% growth for both sectors		2036.2	3533.7			
difference		+423.8	-439.8			

East Asia % the Pacific	Total pop. mill.	Urban pop. mill.	Rural pop. mill.	Urban growth mill.	Rural urban migr. mill.	Rural migr. contri. %
1990	1596.0	460.0	1136.0			
2007	1912.4	827.7	1084.7	367.7	283.5	77.1
Avg. annual growth	1.1	3.7	-0.3			
If 1.1% growth for both sectors		554.0	1368.2			
difference		+273.7	-283.5			

Europe & Central Asia	Total pop. mill.	Urban pop. mill.	Rural pop. mill.	Urban growth mill.	Rural urban migr. mill.	Rural migr. contri. %
1990	436.2	273.7	162.5			
2007	445.6	283.3	162.3	9.6	3.0	31.2
Avg. annual growth	0.1	0.2	0.0			
If 0.1% growth for both sectors		278.4	165.3			
difference		+4.9	-3.0			

Latin America & the Caribbean	Total pop. mill.	Urban pop. mill.	Rural pop. mill.	Urban growth mill.	Rural urban migr. mill.	Rural migr. contri. %
1990	435.1	308.0	127.1			
2007	560.6	438.8	121.8	130.8	41.9	32.0
Avg. annual growth	1.5	2.1	-0.2			
If 1.5% growth for both sectors		396.7	163.7			
difference		+42.1	-41.9			

Middle East & North Africa	Total pop. mill.	Urban pop. mill.	Rural pop. mill.	Urban growth mill.	Rural urban migr. mill.	Rural migr. contri. %
1990	223.7	115.7	108.0			
2007	313.2	179.3	133.9	63.6	17.3	27.2
Avg. annual growth	2.0	2.6	1.3			
If 2.0% growth for both sectors		162.0	151.2			
difference		+17.3	-17.3			

South Asia	Total pop. mill.	Urban pop. mill.	Rural pop. mill.	Urban growth mill.	Rural urban migr. mill.	Rural migr. contri. %
1990	1120.2	279.2	841.0			
2007	1522.0	443.9	1078.1	164.7	60.9	37.0
Avg. annual growth	1.8	2.7	1.5			
If 1.8% growth for both sectors		378.1	1139.0			
difference		+65.8	-60.9			

Sub-Saharan Africa	Total pop. mill.	Urban pop. mill.	Rural pop. mill.	Urban growth mill.	Rural urban migr. mill.	Rural migr. contri. %
1990	513.2	144.3	368.9			
2007	800.0	287.1	512.9	142.8	57.8	40.5
Avg. annual growth	2.6	4.0	1.9			
If 2.6% growth for both sectors		223.2	570.7			
difference		+63.9	-57.8			
back to text						

Text from "About the Data" for table 6.16 (1):

"Workers' remittances and compensation of employees are World Bank staff estimates based on data from the International Monetary Fund's (IMF) Balance of Payments Yearbook. The IMF data are supplemented by World Bank staff estimates for missing data for countries where workers' remittances are important. The data reported here are the sum of three items defined in the IMF's Balance of Payments Manual (fifth edition): workers' remittances, compensation of employees, and migrants' transfers. The distinction between these three items is not always consistent in the data reported by countries to the IMF. In some cases countries compile data on the basis of the citizenship of migrant workers rather than their residency status. Some countries also report remittances entirely as workers' remittances or compensation of employees. Following the fifth edition of the Balance of Payments Manual in 1993, migrants' transfers are considered a capital transaction, but previous editions regarded them as current transfers. For these reasons the figures presented in the table take all three items into account."

Text from "About the Data" for table 6.16 (2):

Workers' remittances and compensation of employees received and paid comprise current transfers by migrant workers and wages and salaries earned by nonresident workers. Remittances are classified as current private transfers from migrant workers resident in the host country for more than a year, irrespective of their immigration status, to recipients in their country of origin. Migrants' transfers are defined as the net worth of migrants who are expected to remain in the host country for more than one year that is transferred to another country at the time of migration. Compensation of employees is the income of migrants who have lived in the host country for less than a year.

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From World Development Indicators 2009, Tables 4.2 and 6.17 Remittances from international workers migration (year 2007)

	US\$ mill.	_	workers remit. PAID	RECEIVED as % of GDP	PAID as % of GDP	Remit. NET as % of
		US\$ mill.	US\$ mill.			GDP
East Asia & Pacific	4365487	65340	12909	1.50	-0.30	1.20
South Asia	1443539	52086	2007	3.61	-0.14	3.47
Middle East & N. Africa	850182	31678	5673	3.73	-0.67	3.06
Sub-Saharan Africa	847438	18586	3816	2.19	-0.45	1.74
Europe & Central Asia	3156118	50377	25908	1.60	-0.82	0.78
Latin America & Carib.	3615910	63107	3582	1.75	-0.10	1.65
Developing countries	14278674	281174	53895	1.97	-0.38	1.59
High Income	40309714	90089	194171	0.22	-0.48	-0.26
World	54588388	371263	248066	0.68	-0.45	

You can compare this table with the one slide 21.