

POPULATION GROWTH, URBANIZATION AND THIRD WORLD SPATIAL DEVELOPMENT

Salah El-Shakhs and Hooshang Amirahmadi

The spatial development effects of trends in global population growth and urbanization in the less-developed countries are discussed. Trends point to the geographic concentration of pressures on usable resources, habitable space, local organizations, and ecological capacity. The need to develop functionally coordinated and spatially integrated policies and strategies is advocated.

The purpose of this paper is to assess the consequences and the policy implications of trends in global population growth and urbanization for the spatial development of the less-developed countries (LDCs). Major among these trends are: the rapid growth of the world population (despite its declining growth rates), the high rate of urbanization, and their uneven distribution over global and national space. While population and urban growth per se

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of population and urban growth and the developed, of world material resources. global distribution of population and urban growth in the high rate of population growth in the regions (LDRs), will further deteriorate position vis-à-vis the more-developed regions exacerbate their already excessive urban widen existing inequalities among social increase national-regional and urban-rural such trends tend to reinforce themselves, nsify the geographic concentration of able resources, space, local organizations, capacity in the LDRs.

trends will also have far-reaching consequences for socioeconomic development and environmental balance in the LDRs, particularly overpopulated regions of the world, and for stability, and world peace. These latter, largely remain outside the scope of this only dealt with in terms of their intricate and impact on, the LDRs spatial develop-

icy implications of such trends for the ment of the LDRs over the coming decades

r a better understanding of the causes and s of spatial imbalances in the distribution ation and resources, and of social inequal-

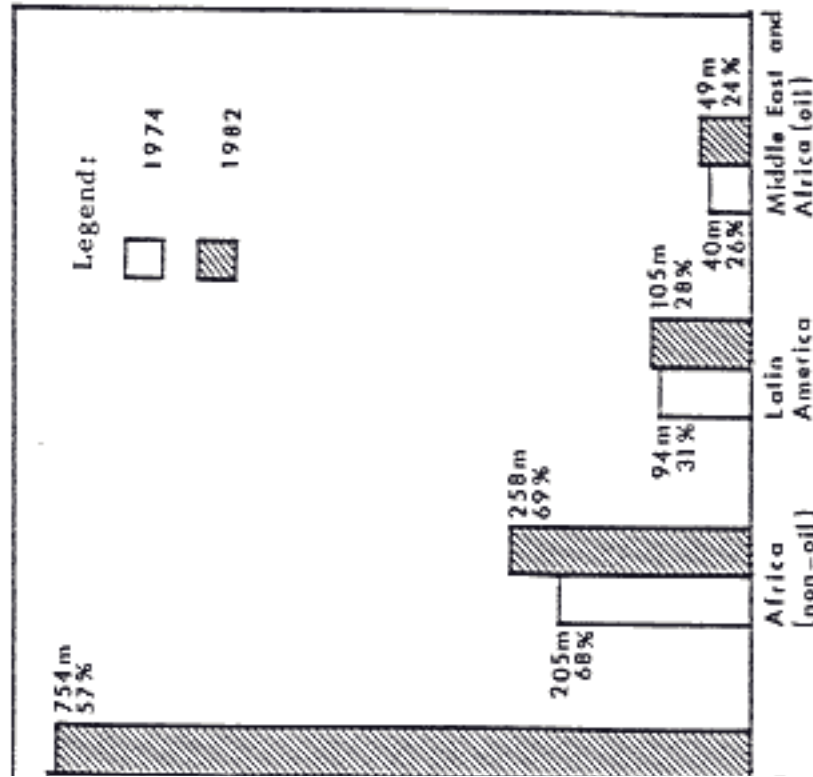
formulate feasible objectives and effective strategies for spatial socioeconomic development, regional, national, and national-levels;

develop feasible and effective redistribution measures at all spatial and interpersonal which, in turn, requires global understanding-cooperation; and

Between 1650 and 1975, world population tripled when it approached four billion (1984):2). The latest UN projections put population at over 10 billion before stabilization year 2100 (United Nations, 1982). The annual world population of about 80 million projected to continue growing until it peaks around the year 2000 (United Nations evidence indicates that, while major growth terms is expected, the global rate of population has already begun to decline (United Nations). Such decline is attributed to the dynamic transition aided by the spread and increase of family planning and fertility reduction (See Figure 1). However, this new optimism is ill-founded, if projected declines in fertility are realized by "conscious collective action" (5-8). In either case, we will still be in question of sustaining an ever-increasing in the foreseeable future, particularly in

The major reason for concern about population growth is that its uneven distribution global space is inversely related to the distribution of world material resources, production (including food production), and technology. Both in terms of absolute numbers and growth, LDRs' population has been growing much faster than MDRs'. Thus, the share of the MDRs in the total population dropped from about 31 percent in 1960 to 1980, while that of the LDRs increased to over 74 percent, respectively. Even when population growth approaches zero (around the LDRs' share of the total population of 87 percent is expected to increase to 87 percent and the MDRs' share to decrease to 13 percent. Although international cooperation may play an increasing role in global

ial socioeconomic, institutional, and po-
in the production and distribution of food
ainst making it accessible to those who
he poor, particularly in the LDRs, where
ulation growth is expected and where pov-
ed and increased, despite overall gains in
(See Figure 2). According to a new survey
), the number of poor people in the LDRs
.1 billion in 1974 to 1.2 billion in 1982.
diate problems of poverty and the lack of
ient food are directly related to spatial



abers unable to meet basic needs (in millions).
cent figures show percentage of total popula-
tion in each region.

World Bank Annual Report 1984.

Table 2

Spatial and Interpersonal Inequalities
in Selected Countries in 1976

| Country | Per Capita GDP 1976 (U.S. \$) | Income Ineq Regional |
|----------------|----------------------------------|-------------------------|
| India | 141 | .185 |
| Thailand | 379 | .678 |
| Colombia | 608 | .307 |
| Mexico | 1270 | .534 |
| Brazil | 1325 | .620 |
| Argentina | 1844 | .313 |
| Iran | 1988 | .923 |
| Venezuela | 2510 | .533 |
| United Kingdom | 3922 | .109 |
| Japan | 4922 | .301 |
| France | 6552 | .243 |
| Germany, F.R. | 7249 | .135 |
| United States | 7911 | .134 |

Source: El-Shakhs, 1982.

than 2 billion people live in countries w
capita of less than \$410 ... Low-income cc
with an average GNP capita of \$270, account
half the people but less than a tenth of t
Development Report, 1983:144).

It was once believed that vigorous
nomic growth, particularly in the LDRs, was
needed to reduce poverty and spatial dispa
now generally held that while continued econ
a necessary condition for long-range reducti
is not sufficient. It appears that without
tributive measures, greater overall develop
gration among unequal units, nations or regi

population lived in cities of over 5,000 people. It took a century for that figure to rise to 50 percent (Brunn and Williams, 1983:3; Hauser and Williams, 1982). However, the world urban population is expected to rise to 50 percent (1.81 billion) by the year 2000 (or more people) reached over 19 percent in 1920, and 41 percent (1.81 billion) by the year 2000. The urban population is expected to continue its rapid growth over the next two decades to reach 3.16 billion (or 51 percent) by the year 2000 (Table 3). Thus, for the first time in history, the world population (over half) will be living in areas by the beginning of the twenty-first century.

This, in itself, implies radical transformation of the world's demographic, economic, and political systems, the uneven global and spatial distribution of urban growth is likely to have drastic consequences for the future. The share of the current LDR urban population increased from 18 percent in 1920 to 56 percent (800 million) in 1980, and is expected to grow to 68 percent (2.15 billion) by the year 2000 (See Table 3). While the proportion of the world population living in cities will continue to rise, it will be less than that of the current MDRs (43.7 percent) by the year 2000, their share of the world population will be more than doubled to 79.4 percent and 1.01 billion, respectively. In fact, the city populations alone of the MDRs will exceed the total population of the MDRs by 1980.

The impact of the world's urban transformation will be felt by the current LDRs but, most notably by their largest urban concentrations. The cities in the LDRs with one million or more people are expected to grow by some 170 percent by the year 2000 (See Table 4). There will be 249 such cities in the LDRs at that time compared to 146 in the

TABLE 3
Urban Population (in millions), Percentages of Population Living in Urban Places, and Urban Average Annual Growth Rates, World, Major Areas and Regions, Selected Years and Periods, 1920 to 2000

| Area/Region | 1920 | | 1975-1980 | | 1980 | | 1920-50 | | 1975-2000 | |
|---------------|------------------|------------|------------------|------------|------------------|------------|--------------------|--------------------|------------------|------------|
| | Urban Population | Percentage | Urban Population | Percentage | Urban Population | Percentage | Urban Growth Rates | Urban Growth Rates | Urban Population | Percentage |
| World | 360.0 | 19.4 | 1,809 | 41.0 | 2,152 | 51.0 | 2.2 | 2.2 | 3,162 | 51.0 |
| LDRs | 100.0 | 8.4 | 1,008 | 30.7 | 1,010 | 43.7 | 3.0 | 3.0 | 2,152 | 43.7 |
| North America | 60.0 | 31.9 | 181 | 73.7 | 234 | 80.7 | 2.2 | 2.2 | 234 | 80.7 |
| Soviet Union | 25.0 | 16.1 | 173 | 64.8 | 237 | 76.0 | 3.4 | 2.2 | 237 | 76.0 |
| Europe | 150.0 | 46.2 | 341 | 70.3 | 408 | 78.4 | 1.3 | 1.0 | 408 | 78.4 |
| Oceania | 4.0 | 47.1 | 17 | 75.7 | 25 | 82.6 | 2.2 | 2.1 | 25 | 82.6 |
| Africa | 10.0 | 7.0 | 135 | 28.8 | 350 | 42.2 | 4.1 | 5.2 | 350 | 42.2 |
| Latin America | 20.0 | 22.4 | 238 | 64.7 | 456 | 75.1 | 4.1 | 3.8 | 456 | 75.1 |
| East Asia | 50.0 | 9.0 | 371 | 32.7 | 634 | 45.1 | 2.6 | 2.8 | 634 | 45.1 |
| South Asia | 40.0 | 8.5 | 353 | 24.8 | 818 | 37.1 | 2.2 | 4.2 | 818 | 37.1 |

their smaller cities and much faster than cities of the MDRs, which indeed are show polarization reversal (Vining and Kontuly, of the expected 25 mega-cities (those with 1 more inhabitants) in the world by the year will be in the current LDRs. This is in cor out of ten such cities which existed in the w Thus, not only is the world expected to f pressure of major magnitude (by adding some 1.35 billion to its 1980 urban population 2000), but such pressure will be extremely tributed with the greatest burden being borne rent LDRs and their largest cities, in partic

Projections of future growth of supe ever, must be viewed with some caution (El-S Indeed, extrapolations of the form and di such urbanization, based on past trends, do ily predict future outcomes with any great a ter all, projections are not predictions. I derestimate people's and urban systems' capac tation and behavioral adjustment. The experi cities in the current MDRs may be illumina respect. It should be borne in mind, howeve time in their history, particularly at comp. of development in the nineteenth century, with the same rates currently experienced by in the LDRs (Weber, 1963). Such projections serve as warnings of the extreme pressure quences which can be brought about by the cc the unbalanced distribution of urban growth underscore the urgent need to develop more ef tegies for spatial development in the LDRs.

Implications and Prospects

The growth and distribution of the and rural population are complex processe dimensions and implications could not be cov

Sources: U.N. World Population Trends and Policies, 1981 Monitoring Report, Vol. 1 Population Trends (NY: UN, 1982); and U.N. Urban, Rural and City Population, 1950-2000, as Assessed in 1978 (NY: UN, 1980).

| Class of City | World | MDR | LDR | World | MDR | LDR | World | MDR | LDR |
|------------------------|--------|-------|-------|--------|-------|--------|-------|------|-----|
| per-Cities (700,000+) | 210 | 100 | 110 | 480 | 150 | 350 | 128.6 | 50.0 | 218 |
| % of cities | 19 | 8 | 11 | 38 | 10 | 25 | - | - | - |
| % of urban population | 11.6 | 12.5 | 9.2 | 15.2 | 12.9 | 16.3 | 31.0 | 3.2 | 71 |
| cat Cities (400,000+) | 311.4 | 135.5 | 175.9 | 718.8 | 179.1 | 539.6 | 130.8 | 32.2 | 204 |
| % of cities | 38 | 15 | 23 | 82 | 21 | 61 | - | - | - |
| % of urban population | 17.2 | 16.9 | 17.5 | 22.7 | 17.7 | 25.1 | 32 | 4.7 | 41 |
| rgc Cities (100,000+) | 653.6 | 298.9 | 354.7 | 1354.4 | 398.2 | 956.2 | 107.2 | 33.2 | 161 |
| % of cities | 254 | 110 | 124 | 440 | 146 | 249 | - | - | - |
| % of urban population | 36.1 | 37.3 | 35.2 | 42.8 | 39.4 | 44.4 | 18.6 | 5.6 | 24 |
| dium Cities (250,000+) | 1005.6 | 463.5 | 540 | 1812.8 | 609.2 | 1203.7 | 80.6 | 31.4 | 121 |
| % of cities | 982 | 471 | 511 | 1342 | 592 | 750 | - | - | - |
| % of urban population | 53.5 | 57.8 | 53.6 | 57.3 | 60.3 | 56 | 3.2 | 4.3 | 7 |

(1980-2000)

United Nations, 1982), they continue to be in the LDRs, in rural areas, and among the ill the poor (Vallin, 1979; *People 2,1* (1984); 3, 1982).

despite massive outmigration from the LDRs' their population will continue to expand in decades. In 1980, some 2.28 billion people LDRs' rural areas. By the year 2000 this is expected to increase by 22 percent (See ding approximately 500 million to already areas. This results in excessive pressure ources, particularly land, and more generally ng capacity of rural environments.

the natural carrying capacity of the perma- ed environments can and has, throughout his- creased with developments in technology and zation, population pressure on such capacity a faster, particularly in the LDRs where such generally lag behind population increase. ations, thus, become progressively less im- :termining the growth, density, and location settlements.

ant survey by the Food and Agriculture Organ- of the United Nations estimates that at :ries will not be able to support their popu- ming intermediate levels of input, by the ited Nations, 1982). A large number of these located in Africa and Asia where prospects ical development are relatively low (See : outcomes of such imbalances between popula- carrying capacity of natural environments increased population density; expansion of ments through rural population movement and and increased pace of urbanization, primarily -to-urban migration.

the vertical and horizontal expansion of ru- nts has largely been neglected in population d migration research (which tended to focus (un) if ic of major transnations and to ene-

Table 5
Rural Population (in millions) and Rural Average Annual Growth Rates, World, Major Areas and Regions, Selected Years and Periods, 1920-2000

| Region | 1920 | | 1920-50 | | 1980 | | 1975-80 | | 2000 | |
|---------------|------------------|------------------|------------------|--------------|------------------|------------------|------------------|--------------|------------------|------------------|
| | Rural Population | Percentage Rural | Rural Population | Growth Rates | Rural Population | Percentage Rural | Rural Population | Growth Rates | Rural Population | Percentage Rural |
| World | 1500.0 | 80.6 | 2600 | 0.8 | 59 | 1.2 | 3,038 | 1.2 | 49.0 | 49.0 |
| MDRs | 422.7 | 61.3 | 329 | 0.7 | 29.1 | -1.0 | 263 | -1.0 | 20.6 | 20.6 |
| LDRs | 1087.3 | 91.6 | 2,277 | 0.8 | 69.3 | 1.5 | 2,775 | 1.5 | 56.3 | 56.3 |
| North America | 55.7 | 48.1 | 65 | 0.6 | 26.3 | -0.4 | 56 | -0.4 | 19.3 | 19.3 |
| Soviet Union | 130.3 | 83.9 | 94 | 1.0 | 35.2 | -1.1 | 75 | -1.1 | 24.0 | 24.0 |
| Europe | 174.9 | 53.8 | 143 | 0.2 | 29.5 | -1.1 | 112 | -1.1 | 21.6 | 21.6 |
| Oceania | 4.5 | 52.9 | 6 | 1.1 | 24.3 | -0.4 | 5 | -0.4 | 17.4 | 17.4 |
| Africa | 132.9 | 93.0 | 334 | 1.1 | 71.2 | 2.0 | 478 | 2.0 | 57.8 | 57.8 |
| Latin America | 69.5 | 77.6 | 130 | 1.1 | 35.3 | 0.8 | 152 | 0.8 | 24.9 | 24.9 |
| East Asia | 503.4 | 91.0 | 765 | 0.4 | 67.3 | 0.6 | 772 | 0.6 | 54.9 | 54.9 |
| South Asia | 429.8 | 91.5 | 1,069 | 1.1 | 75.2 | 2.0 | 1,388 | 2.0 | 62.9 | 62.9 |

and extremely skewed in the LDCs. The impact of twentieth century technology, attitude changes has led to an increased pace of ruralization while, at the same time, it has reduced the urban economy's capacity for labour absorption. Urban labour supply has been increasing faster than urban labour demand, thus increasing urban unemployment rates both of which contribute to urban poverty, unrest, and inefficiencies and underemployment rates in excess of 20 percent are not uncommon in the large cities of the LDCs. To 50 percent of their populations living in slums, and with urban slum and squatter settlements ranging from 17 percent to 70 percent. Despite the fact that urban areas continue to command a disproportionate share of services and amenities, of household income and political and economic power to the detriment of rural areas.

What accentuates the negative impact of ruralization in the LDCs, for the development of rural and urban areas, is its uneven distribution of concentration in favored primate cities (Vining, 1983), induced particularly by the Third World governments to concentrate in growth areas. Under such conditions, imbalances between urban areas and regions were compounded through a process of cumulative advantage. Moreover, early developments in transportation, and other factors of spatial and economic concentration further accelerated this process of primate city growth at a rate that of overall urban growth and accumulation of human, capital, and institutional investment as government's attention and investment

SPATIAL DEVELOPMENT EFFECTS

Such trends of overconcentration and

| Region | Asia | SW Asia | South America | Central America | Total |
|---|------|---------|---------------|-----------------|-------|
| populations, all cultivable land under food crops. | 1.1 | 0.8 | 5.9 | 1.6 | 2.0 |
| 1.8 | 3.0 | 1.3 | 23.9 | 4.2 | 6.8 |
| 1.6 | 5.1 | 2.0 | 57.2 | 11.5 | 16.3 |
| populations, actually cultivated land, one-third crops. | 0.7 | 0.8 | 0.6 | 0.5 | 0.4 |
| 1.5 | 1.9 | 1.2 | 2.4 | 1.3 | 1.5 |
| 1.5 | 3.1 | 1.9 | 5.8 | 3.7 | 3.6 |
| populations, all cultivable land under food crops. | 1.1 | 0.7 | 3.5 | 1.4 | 1.5 |
| 1.4 | 2.3 | 0.9 | 13.3 | 2.6 | 4.1 |
| 1.6 | 3.3 | 1.2 | 31.5 | 6.0 | 9.1 |
| populations in 2150, all cultivable land, non-food crops. | 0.4 | 0.3 | 1.5 | 0.6 | 0.5 |
| 1.4 | 0.9 | 0.3 | 5.5 | 1.1 | 1.44 |
| 1.2 | 1.3 | 0.5 | 15.1 | 2.5 | 3.2 |

This table indicates the number of times by which population carrying capacity of the land exceeds expected population for the year stated. Figures indicate critical figures, where region can not support population. But any figure below 2 indicates a

tech, No. 13, 1983.

to account for the largest component of ruralization movement (Gosling and Abdullah, 1983). The LDCs rural areas results in ruralization, whose precise dimensions have unfortunately not been systematically documented. On the one hand, the demand for rural housing, building other infrastructural activities tends to reduce the amount of cultivated land and its topsoil and

conflicts and political instability; assumption of cultivated or arable land for infrastructure and of topsoil for building

and
aneous rural expansion and resettlement which frequently leads to intrusion on lakes, watersheds, and dry land margins, all for the environment and cause natural dis-

large cities)

loads on the functional, service, and or-capacity of large cities;

inappropriate land use patterns;

ential mobility, inflate demand for trans-and increase cost and use of peripheral and is as cities grow;

nces between urban labour supply and the modern sector for labour, inflate informal accounts for 30 to 60 percent of the la-ncrease unemployment and underemployment, ages, all of which unfairly impact the ur-to 50 percent of large city populations

is and squatter settlements which present-or 20 to 70 percent of housing in LDRs' estion and decrease commitment to envi-cerns; and
rbuilding of large cities in response to little regard or flexibility for future justments.

a general agreement that the unprece-on of the human population, most of which in the LDRs, will likely determine the r the coming generation. As one of the nts of population summed it up (Hauser,

Some of the critical consequences are the following:

(1) The rapid urbanization and urban concentration are already occurring at a time when day's LDRs are occurring at a time when tions are already large in proportion and at a rate which overwhelms their s tional, and technological development. and pressures will likely accentuate nate application of borrowed or impose result in the irrational allocation an ural resources and of land, and cause costly damage to ecological systems.

(2) Unmitigated polarization processes, a quent increases in real and perceived d parities, will likely retard fertility less-advantaged regions, intensify popu imbalances, and heighten political conflict.

(3) The inevitable response to concentra pressures is the expansion of the n capacity of ecosystems through orga physical changes to the environment, wi ed and unintended consequences and im and their habitat. To a large extent, itself in built environment, roughly a will have to be constructed over the ne ades as now exists (Calhoun and Ahuja, of this rigid long-lasting construction take place in the LDCs, and more partic exploding urban centers where all typ and breakdowns in service systems are Cities are becoming awesome, man-made p both above and below the earth's surfa or no limits or safeguards dictated environment and with increasingly limi future changes.

(4) Finally, the current ills which plag

RCH AND POLICY IMPLICATIONS

a distribution of rapidly expanding world urbanization has created enormous social, interpersonal, spatial, and environmental LDRs, and has further deteriorated the situation vis-à-vis the developed societies. Excessive urban concentration in the intensified the geographic concentration of land scarce and as yet undeveloped usable space, local organizations, and economic In the absence of objective and effective distributive measures, these same trends further exacerbate their own effects and perpetuate the LDRs in a vicious circle. Such conditions are the phenomenal forms of a deepening process whose understanding requires a knowledge of its causes. Therefore, we not only need a causes of uneven distribution of population, but also of material resource allocation, organization of production and distribution, methods of investment and reinvestment.

There is a reevaluation of both our methodologies and theoretical-conceptual formulations in the areas of spatial interactions and processes. A reformulated spatial theory is needed, and placed within, a holistic and dynamic theory of socioeconomic development. We should be in a position to better understand the dynamics of uneven spatial distribution, and of the nature and timing of regional trends and the factors which trigger them. Understanding is essential for effective regional policies whose results to date have been disappointing in the LDRs.

Efforts to reduce fertility, control population growth, and influence late inter-regional growth, and influence and the use of land have generally fo-

tative practices (at national and international) and blind faith in unregulated market forces are invalid. The forces and objectives of the development and of urbanization are complex and political in nature. They differ among countries and time in both theoretical and operational instances:

- Population distribution patterns and objectives with development are increasingly more complex as the structure of the economy, land tenure, and distribution relationships change, carrying capacity of micro-environments.
- Rural-to-urban migration has crucial implications for areas of origin and of destination, for themselves, and, more generally, on the national population and economic growth. However, change with development is not yet fully understood.
- The hierarchy of urban settlement systems and spatial distribution of urban growth is a function of the levels of urbanization and development. There is no magic formula for an optimum urbanization since its efficiency is a function of development goals and of the performance of urban centers. Thus, while it is believed that a more balanced urban development will help smoothen spatial transitions, modern consequences of urbanization, modernization enhance the efficiency of the future urban issue of urban distribution focuses more on the relative efficiency of individual cities.
- The optimum size of cities has been an elusive concept. Studies seem to point out that a minimum-size threshold may indeed be necessary for adequate economies of scale, optimum urban development related to development level capacity to plan and manage urban development, and culturally-determined tolerance levels

help moderate its impact, particularly on cities. However, unless such methodological issues are resolved through further research, we shall only partially succeed in solving problems of polarization and environmental effects in effecting rationalization in the spatial organization and socioeconomic restructuring aimed at such rationalization. The implicit impact of national development policies and regulations (1981). Thus well-meaning efforts to equalize and resource distribution and to regional development and hierarchies of cities through manipulation of economic policy tend to produce opposite results in the developed and mixed economies.

Local management of population movement, and settlement patterns (both rural and urban) requires a high degree of commitment, greater coordination, and true partnership in development efforts at all levels. There already exists a number of organizations and institutions at various national levels which deal separately with aspects of this issue, frequently with overlapping concerns. Yet the increasing complexity, interdependence of the economic, social, and political aspects of human development and settlement require functionally coordinated and integrated policies and strategies. They also require the organizational level at which policies can be formulated and implemented. National boundaries (even national boundaries) are increasingly meaningless or obstructive to

localities. Lack the capacity to organize, plan, and coordinate cities or indeed undertake long-range development plans. Such plans require extensive data and professional skills which

International organizations can help by assisting in the development of a common base and continued research in the area to establish appropriate standards and criteria and multi-national levels, and by promoting factors in national development policy. On their part, given such help and with appropriate strategies suitable to their conditions, the LDCs should develop integrated strategies for the specificities of their sources and for the social and spatial distribution of resources. Redistributive measures are essential for development policy as are investment sources and rural areas. Concepts such as resource sharing should be promoted within the regional autonomy, federalism, or decentralization. The public and cooperative sectors must play a role in promoting such policies. Tighter development processes is a precondition for implementation of plans and projects. In the democratic environment allowing for criticism and exchanges of views, we may not be able to avoid our mistakes and reformulate more effective strategies.

The reversal of polarization trends is increasingly interdependent national and international seems to be contingent upon achieving an equitable, social, and spatial distribution of benefits and of political power at global, interpersonal levels. This, in turn, requires international understanding and cooperation and appropriate institutional mechanisms to promote power and to promote development assistance. LDCs. Agreement over the New International Development Strategy would be a good starting point at the global level. Out such changes, the perceptions of spatial, and environmental concerns are likely

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