WORLD COMMISSION ON ENVIRONMENT AND DEVELOPMENT

SIXTH MEETING Harare, Zimbabwe September 15 - 20, 1986 WCED/86/19

MEMORANDUM

TO: All Members of the World Commission

on Environment and Development

FROM: Branislav Gosovic

Senior Programme Officer

DATE: 1st September 1986

RE: SIXTH MEETING OF THE COMMISSION

Please find attached the draft chapter on human settlements, entitled "Towards Livable and Sustainable Cities for the 21st Century".

The draft chapter has been elaborated by drawing on the background papers and on the basis of an initial exchange of views on the subject by the Commission which took place in Sao Paulo.

No replies were received from the Commissioners to whom an earlier version of the chapter was sent for comments.

A table of contents is appended to provide an overview of the Chapter.

In addition to the three background papers already circulated in Sao Paulo, an additional paper was prepared by J. Hardoy and D. Satterthwaite under the title "Rethinking the Third World City". This paper will be circulated for information at the Harare meeting.

CHAPTER 8

TOWARDS LIVABLE AND SUSTAINABLE CITIES FOR THE 21ST CENTURY

I. A GLOBAL CHALLENGE

II. FOCUS ON THE THIRD WORLD CITY

- a. Rapid Urban Growth in Developing Countries
- b. The Declining Ability to Meet Urban Needs
- c. The Shelter Gap and the Illegal City
- d. Decaying Urban Fabric
- e. Health, disease and poverty
- f. Environmental Degradation, Pollution and Risk
- g. Incomes and Jobs
- h. Institutions
- i. Prospects and Liabilities of Third World Cities

III. CONFRONTING THE URBAN CRISIS IN DEVELOPING COUNTRIES

A. NATIONAL RESPONSES

- a. Integrate Urban and Macroeconomic Policy and Development
- b. Adopt Local Models for Sustainable Urban Development
- c. Improve Housing and Living Conditions for Lower Income Groups, Focusing on Marginal Settlements
- d. Develop Small and Intermediate Urban Centres
- e. Practice Greater Self-Reliance
- f. Devolve More Effective Power and Resources on City Government
- g. Strengthen Local Governance and Community Participation

B. INTERNATIONAL CO-OPERATION

- a. Increased Financial Assistance for Urban Development
- b. Support for Institution Building
- c. Low-Cost Urban Development Technologies
- d. Information and Technology Exchange Programmes among Developing Countries

IV A CALL FOR A GLOBAL STRATEGY FOR SUSTAINABLE CITIES

CHAPTER 8

TOWARDS LIVABLE AND SUSTAINABLE CITIES FOR THE 21ST CENTURY

I. A GLOBAL CHALLENGE

- 1. The world is urbanizing. By the year 2000, it is projected that around half the world's population will live in urban areas, ranging from small and medium sized towns, to megacities, metropolitan areas and regional agglomerations. In a large number of countries, three quarters or more of their people will reside in urban settlements. The urbanization process and urban development occupy a central place in the prospects for sustainable development worldwide and for the environmental perspective for the year 2000 and beyond.
- 2. Cities are seats of political power and key units of social and economic organization, cultural, scientific and educational innovation and leadership. They act as poles for and the principal engines of development and economic growth. They are the centres from which the world production and trade is organized, and it is within an increasingly interlinked network of cities that worldwide communication, interaction and exchange takes place. They

remain the principal location for new or expanded economic activities, and new job creation, and they continue to be the centres of opportunity and upward mobility in society. In many countries, they represent the best and only possibility for survival for large numbers of rural poor.

- There is a strong correlation between the degree of 3. urbanization in a nation or a region and the level of development and per capita income. Indeed, economic development is associated with high levels of urbanization and a highly developed network of urban centres with strong and complex interconnections in terms of flows of goods, people, capital and information. The economies of agglomeration either within single cities or within the well-connected city systems have proven essential to most modern enterprises. Close to three-quarters of the population in the more developed regions today reside in urban centres, while a third of this population live in centres with a million or more inhabitants.
- 4. As urban growth proceeds, a rapidly increasing number and a steadily increasing proportion of the world's people will experience and witness environmental problems in the man-transformed and constructed environment of cities. Many of these problems often arise in densely populated areas where industrial production and other economic activities, and population are concentrated together. Degraded, polluted, complicated, overcrowded and oversized cities, overrun by cars, buses and trucks, and in the grip of asphalt, cement dust and noise, have become a symbol of twentieth century environmental degradation. The urban environment, the place of work and one's home have also become a source of health problems, of environmental risk, and considerable discomfort, anxiety and alienation. Urban

dwellers have come to yearn for clean air and water, green space and nature, human scale and simplicity. And, in many cities, a safer and more comfortable environment has become a mark of social privilege, accessible to the better-off strata of population.

- To fulfil their many roles and to meet their own needs and 5. those of their inhabitants, cities need water, food, energy, raw materials, and natural systems to help break down and disperse their effluents and waste products. Cities have been subjected to critical scrutiny because of their resource and energy intensive patterns of development, housing and transport systems, and of the wasteful lifestyles of many of their inhabitants. demand generated by large cities, especially those characterized by the higher per capita incomes of their populations and advanced levels of economic and social development, is considered as excessive. They are giving rise to trends and pressures on the environment and the natural resource base that are not sustainable in the longer run, that cannot be universally replicated and that result in social inequities between and within countries.
- 6. In brief, there is a tension and dualism in the modern cities, between their essential economic and social roles, and their negative and often unintended and unwanted consequences in the environment-development sphere. Indeed, the impacts of the patterns of development evolving in cities can often subvert or even negate some of their very development objectives, let alone generate effects harmful to people, denying to increasing numbers of them the basic right of a healthy and safe living and working environment.

- 7. One of the important facets of the environment-development perspective for the year 2000, and beyond, is the rapid process whereby the world cities are becoming hubs of an ever tighter global web of complex and multiplying relationships between national economies, world economy, societies, peoples and the physical environment. What takes place in urban settlements, how they get organized, the demands they give rise to, their efficiency or the extent of waste built into their fabric, the pollution they generate, and so on, will have important effects on how people live and on prospects of generations to come, for the state of the global environment, for the future of the world economy and for the development process itself.
- 8. Indeed, world cities as key units of social organization where patterns of development, lifestyles and individual and group aspirations are molded, represent important access points for influencing and dealing with many issues on the environment-development agenda. It is in the cities that many strands having to do with energy, food security, industry, population, technology, environmental risks, etc, come together and originate. What happens in the world cities and how they evolve, therefore, is of crucial significance for the objectives of sustainable development.
- 9. In addition to their traditional objectives and concerns, contemporary cities have thus acquired new ones which have to do with urban design, development patterns and lifestyles that are energy and materials conserving, efficient and favourable to human welfare, pollution abatement and human health protection, and managing to deal with evermore complex and hazardous technologies,

technological and production systems and products. These new objectives which are becoming of critical importance for quality of life, economic growth and societal well-being, need to be internalized into the very rationale, decision-making structures and fabric of cities, and given meaning through behaviour, actions and decisions of various actors that make up or shape cities, from the highest levels of government to individual citizens.

The essence of the challenge for the contemporary society 10. then is how to maximize the positive aspects of cities, their roles as agents of sustainable development and providers of healthy and rewarding life for all. global challenge which poses itself in a different manner in different parts of the world, countries and cities. diversity of urban settlements, and of the mix of factors and their individual situations is great and usually defies generalization, even more so when one introduces the environment-related variables into the picture. However, there is still one great division, that which separates developed and developing countries. Indeed, the contemporary urban challenge is greatly influenced by the gap and the differences in the levels of economic development between developed and developing countries.

Key Points CITIES - A GLOBAL CHALLENGE

- World is rapidly urbanizing; by the year 2000 half the world's population will live in urban areas.
- Cities are crucial units of social organization for sustainable development prospects - how they fulfil their roles and are organized, demands they give rise to, their efficiency, pollution they generate, etc. have great bearing on how people live, state of the environment, pressures on the resource base and on the development process in general.
- There is a tension and dualism in modern cities between their many economic and social roles, and some of the impacts and processes that accompany these and which threaten quality of life and subvert sustainable development objectives. As a result, new concerns and goals have emerged in the cities.
- The essence of the challenge is how to maximize positive roles of cities and their contribution to the objectives of sustainable development.
- The challenge poses itself quite differently in different parts of the world; there exists, however, one great division, that which separates developed from developing countries.

II. FOCUS ON THE THIRD WORLD CITY

- 11. The Commission has opted to focus on the Third World city. It has done so in part as a way to sharpen and give manageable proportion to what it has to say on the vast and infinitely complex topic of human settlements and habitat. Primarily, however, it has done so because a crisis is sweeping urban settlements in the developing countries. The management and resolution of this crisis holds one of the keys for prospects of sustainable development in the Third World.
- 12. The focus chosen by the Commission is not meant in any way to diminish the importance of what takes place in the cities of the industrialized countries. What happens in these cities, choices made and lines of action pursued is of fundamental importance on the global scale. majority of population of industrialized countries is urban, and they account for a dominant share of global environmental pollution, resource and energy use. Moreover, the responses evolved in these cities to the environmental and resources challenge will have worldwide implications because of their diffusion, adoption and influence in the global urban network.
- 13. Nor is the focus on the Third World city meant to diminish the complexity and magnitude of the urban challenge in developed countries - politically, socially, economically and environmentally. However, these countries are well-poised to face the problems of their cities and to work out appropriate solutions. They are well-off economically. Growth of urban population is comparatively modest and manageable; indeed, in some regions there is no

growth of urban population and even a decline has been registered. Cities are in place, with well-developed housing, infrastructure, production and transport facilities. There has been a long experience with management and administration of cities. Local government for the most part, is strong and has at its disposal significant powers and resources. With advanced and versatile economies, high per capita incomes, materials and energy uses, having at their disposal resources, institutions and technological abilities, and with a good deal of flexibility and space for manoeuvre and innovation, the question is ultimately one of making appropriate social choices and decisions.

- The industrialized societies can deal with inequalities and 14. squalor that exist in their cities and entrap the old, the poor and the ethnic and racial minorities; it is not a question of resources or weaknesses in the institutional structure, but rather of political commitment to do so among those in power. These societies are in a position to meet the requirements of urban renewal, redesign and replacing the deteriorating housing stock, infrastructure and declining industries. Likewise, they can achieve and maintain an environmentally sound and healthy urban environment. The fact that they are in a favourable situation to pursue this multiplicity of social goals and objectives, however, does not detract from the degree of difficulty, cost, technological innovation and social change that achievement of these objectives will entail.
- 15. The Commission has also not chosen to delve on the conditions in the rural settlements of the Third World. Rural settlements are less settlement specific and are more directly linked to the overall context of rural development, issues which were broadly discussed in the earlier chapters. The very nature of rural settlements, namely their small size, dispersion, self-reliance for

housing and a variety of other functions, manageability, dependence on the local ecosystems for survival, availability of materials, less exposure to environmental pollution (even though this advantage is being negated by the impacts of chemicals/biocides used in agriculture and by the spread of pollution from cities to rural areas) etc., eliminate a series of complex problems that concern especially large urban settlements.

- 16. It is in the urban areas that problems are specific to settlements. In cities people need cash income to survive. They cannot eke out an existence by growing food; they cannot find accommodation without income; and there are no free materials on hand as in many rural areas - with which to build. To varying degrees, urban settlements in most developing countries, and in particular some of their large and primate cities, have experienced a very rapid and uneven urban growth and urbanization process, a marked growth of their needs, and increase in population numbers both through migration from rural areas and through natural growth. Where similar expansion took more than a century to accomplish in some metropolitan areas of developed countries, it has been compressed into much shorter periods of several decades or less in a number of cities of the Third World. It has also taken place at much lower per capita incomes, preceding the establishment of a solid and diversified economic base to back up the process and of the necessary housing and urban infrastructure, and fusing up what elsewhere have been sequential stages in the evolution of a settlement.
- 17. The present difficult stage in the development process in the Third World, is punctuated by an urban crisis of major proportions. It is a crisis of development and often survival, of lagging economic growth, of rapidly growing cities, of a weak and undiversified development base, of little accumulation and dearth of public finance needed to

invest in the management and growth of cities, of frequently lopsided distribution of resources within society, of great and sometimes total dependence on the unpredictable and unfavourable international economic environment, of circumscribed choices and of little chance to get extricated from various difficulties or to pursue desired social objectives. It is a crisis of marked local impacts and suffering. On the eve of the 21st century, it is the development situation and evolving trends in the cities of the Third World that present one of the most urgent challenges for the developing countries themselves, and for the international community as a whole.

- 18. Urban settlements in the Third World differ very profoundly. Yet, there is also a great deal that they have in common to make it possible to highlight a few factors that have played a role in shaping these cities and the crisis that they are experiencing today.
- 19. The poverty and underdevelopment trap has shaped many Third World cities and has helped frustrate many well-intentioned and often carefully thought out strategies and schemes of urban development. Rapid urbanization taking place at quite low per capita income - and very often with increasing population numbers and decreasing resources available on a per capita basis to build and manage cities - poses serious dilemmas and difficult social and economic choices for policy and decision-makers involved in urban management.

- 20. In many Third World cities, international economic relations have played a prominent role in this process all along, both by fueling rapid and imbalanced urban growth and by undermining urbanization through vagaries of international trade and instability of earnings, unfavourable terms of trade, outflow of surplus capital, and so on. In recent years, the effects of recession, decelerated growth, foreign debt burden, adjustment programmes and various austerity measures have had a telling effect in their urban areas, with the more vulnerable and weaker socio-economic groups being hit most severely. Reduced incomes for the poor, increased unemployment, higher prices for food and other necessities, restrictions and cuts in government expenditures, withdrawal of subsidies and weakening of government programmes aimed at alleviation of poverty, social consumption and welfare of population, etc, have resulted among other things in a decline of nutritional, health, education and housing standards related to quality of life. Indeed there is one generalization which holds true for a large number of Third World cities: as we face the year 2000, the very foundation from which the difficult and complex undertaking of urbanization is to be carried out has been undermined by the world economic crisis.
- 21. Direct and indirect heritage of history including the colonial past, tends to be a pronounced factor in the current problems of a number of Third World cities. This includes the very rationale, siting, location and early growth of settlements, their present role in the world economy and international division of labour, the inherited legal system relating to land, the colonial separation of the "European city" and the "native town" which is more or less reproduced today with the better-off strata of

population living in well-serviced areas and the poor in the marginal settlements, etc. This burden of the past and the frustrations of the present are part and parcel of the broader pattern of relationships that developing countries experience vis-à-vis the industrialized North.

- In this context, there is an outward orientation of most 22. cities in the Third World, looking up to and copying urbanization models from the developed countries. often leads to an excessive openess and uncritical borrowing of urban models, methods of planning and management, and technologies, all of which were generated under quite different social, economic and environmental conditions. This tendency is reinforced by the aspirations of the middle and upper income groups to reproduce lifestyles and patterns of development of their counterparts in the more affluent societies. It is further assisted by the pervasiveness of messages diffused by media, especially the TV, and through transnational advertising.
- It is these models of urban development which have had an 23. important role to play in the evolving urban situation in the developing countries. Their economic and social costs, and the irrationalities and waste inherent to them could not be easily tolerated in developing nations with limited margins of action and reserves to draw on, and meager public resources available for many competing development needs and objectives. This fact is illustrated by problems of finance which plague practically every Third World City. Governments and urban administration find themselves squeezed between requirements and costs to build, run, maintain and manage the cities including their high dependence on equipment and other inputs from abroad, the

demands of the well-off strata of population to maintain their privileges, and the increasing pressures for social equity and participation of the ever greater numbers of urban poor.

- 24. Poverty, degradation and the harsh economic reality are thus juxtaposed with aspirations and impatience for attaining levels of affluent, technologically advanced consumer societies. In a situation of conflicting and competing social objectives and insufficient resources to attain them in short and medium-term, of pressures of consumerism, of market and speculative forces in land and real estate, and of differential power that social groups and classes command in society and in government, there is a tendency for dual or multilayer, highly unequal cities to emerge. The city of the privileged and the city of the poor majority cohabit in a tense relationship. The former enjoys public services, water, drainage, paved roads, street lights, garbage disposal, sewers, various amenities, including green space and a more favourable location vis-a-vis the sources of environmental pollution, and the already scarce public funds tend to be used largely for its upkeep and management; the latter, at best has one or two of the above services and often none of them, is characterized by the degraded environmental conditions, a continuing aggression on the environment resulting from the survival strategies of its inhabitants, and the lack of public recognition and investment.
- Symptomatic of the dual nature of many such cities, the 25. poor strata of population have come to experience a double brunt of environmental pollution and degradation. increasing poverty related environmental hazards of poor housing, overcrowding, sanitation and sewerage, have been supplemented by the more modern types of environmental degradation to which the poor seem also to be much more exposed, such as air and water pollution from industry and

transport, noise, long hours of travel to and from work, This exposure is often accentuated by the siting of marginal settlements next to industries, a fact demonstrated dramatically by great loss of life and human suffering in various environmental and industrial accidents in the Third World., such as those that have occurred in Cubatao, Mexico City and Bhopal.

26. In sum, then, the urban crisis in the Third world has its roots in underdevelopment and the development gap between North and the South, and in the domestic political, social, economic structures and processes, which often fuel and reproduce social and economic inequalities, in particular when it comes to employment and income, satisfaction of basic needs and access to land, housing and services.

Key Points FOCUS ON THIRD WORLD CITY

- An urban crisis is sweeping developing countries; its management and resolution hold one of the keys for prospects of sustainable development in the Third World.
- This crisis is embedded in the broader development dilemmas faced by the developing countries.
- Rapid urbanization is taking place in a situation of low per capita incomes, decelerated economic growth, competing social objectives and significant growth of urban population.
- Models of urban development transmitted from the developed countries have contributed a share in shaping the current crisis.
- There is a marked element of inequity in the urban situation in the developing world.
- International economic relations and the world economic crisis have played a key role in triggering and aggravating the urban crisis in the Third World. and in limiting options at the disposal of developing countries to deal with their urban situation.

a. Rapid Urban Growth in Developing Countries

27. The Third World is undergoing a process of rapid urban growth. As recently as 1950, only 286 million people, or 17% of the total population in less developed regions lived in urban areas. By 1985, it is estimated that this figure had risen to 1.1 billion, or 29% of the total population of less developed regions; only during the past few years, more than 350 million people have been added to this urban population, most of them below the poverty line. According to the current set of projections, 1.9 billion or 39% of total developing countries population will be urban by the year 2000.

BOX 1.							
	PROPORTION OF POPULATION LIVING IN URBAN AREAS 1950 - 2025						
		1950	1950 - 2025	2000	2025		
		1950	1705	2000	2025		
1.	World total	29.2	41.0	46.6	60.1		
2.	More developed						
l	regions	53.8	71.5	74.4	77.8		
3.	Less developed	-			•		
	regions	17.0	29 . 2 	39.3	56 . 5 		
١.	Africa	15.7	29.7	39 . O	55.3		
5.	Latin America	41.0	69.0	76.8	84.2		
	(Temperate Sout						
	America)	(64.8)	(84.3)	(88.6)	(92.6)		
	(Tropical South	· · ·		• •			
	America)	(35.9)	(70.4)	(79.4)	(86.4)		
5.	Asia	16.4	28.1	35.O	52.9		
	(China)	(11.0)	(20.6)	(25.1)	(43.7)		
	(India)	(17.3)	(25.5)	(34.2)	(53.6)		
			URBAN POPULATION	1950-2025			
			(in millio	·			
				Projection			
		1950	1985	2000	2025		
١.	World total	734.2	1982.8	2853.6	4931.7		
2.	More developed						
	regions	447.3	838.8	949.9	1086.5		
3.	Less developed						
	regions	286.8	1144.0	1903 . 7	3845 . 2		
١.	Africa	35.2	164.5	340.O	894.1		
5.	Latin America	67.6	279.3	419.7	655.6		
5.	Asia	225.8	791.1	1242.4	2396.8		

28. Large urban agglomerations are a worldwide phenomenon. They are becoming an important issue in some developing countries, where some of the so-called "runaway megacities" are to be found. Indeed, in 1985 of the 30 world cities with the population of 5 million or more, 20 were in the less developed regions. In 1950, some 35 years ago, there were only eight world cities with a population of 5 million, or more i.e. New York, Shanghai, London, Tokyo, Beijing, Paris, Tianjin and Buenos Aires.

BOX 2 A sample of rapidly growing cities of the Third World

	<u> 1950 </u>	<u> 1985</u>	2000
Mexico City	3.05	17.30	25.82
Sao Paulo	2.76	15.88	23.97
Bombay	2.95	10.07	16.00
Jakarta	1.82	7.94	13.25
Delhi	1.41	7.40	13.24
Manila	1.57	7.03	11.07
Lagos	0.36	3.65	8.34
Bogota	0.70	4.49	6.53

Source: "Urban and Rural Population Projections", op.cit.

29. It is projected that by the year 2000 the 100 largest world cities will shelter and accommodate 657 million people. Of these, 450 million, or 68% will be in the less developed regions. This places an important challenge in front of developing countries. Improving, or simply maintaining the quality of life for people in large urban agglomerations, and indeed the very efficiency and nature of economic and social processes taking place in such settlements, is closely linked with their manageability. The "megacities" illustrate

vividly the logistics and requirements of coping with the size, complexity, large population numbers and multiplying and diversifying needs of such human settlements. In some developing countries, the large primate cities have emerged as one of important social and economic problems, and a cause cum effect of structural imbalances in their economic and social development.

- 30. The increasing number of million cities in developing countries does not however mean that the majority of their urban population lives there. Indeed, the cities with between 100,000 and 1 million inhabitants now dot the landscape of Third World regions which were sparsely settled until a few decades ago. In 1980, there were 127 such cities in Africa, 181 in Latin America and the Caribbean, 117 in East Asia, and 391 in South Asia. It is these intermediate urban centres and those with less than 100,000 inhabitants, that have sustained very high growth rates.
- 31. These broad figures and generalizations are meant to illustrate the scale and pace of urban change which has affected many Third World nations. They do not deny the extreme diversity of situations between countries, nor the fact that many small developing countries are predominantly rural and have not experienced urbanization process.

b. The Declining Ability to Meet Urban Needs

32. The rapid urban growth has occurred in a situation of declining ability of most Third World governments to respond to mounting needs, problems which require their attention, and increasing complexities of their urban settlements. Confronted by an often dramatic shortfall

in resources needed to build, maintain and manage cities, and to pursue an effective and assertive urban policy, compounded by a parallel increase of per capita cost of settlement, housing and job creation, the governments hardly manage to keep up with the tide. In the process, some resigned themselves to a spiralling urban crisis and a fire-fighting strategy, sometimes overlooking whatever few opportunities existed for more assertive action and for directing the process of urban change.

- 33. Today there is a large and increasing gap between the growth in the Third World's urban population and actions and investments by governments to provide even the most basic pre-conditions for an adequate life for most urban dwellers. The deterioration in housing and living conditions, in people's access to the basic services which are essential for urban life (water supply, sanitation, garbage disposal, health care, etc) and in the number of adequately paid, stable income earning opportunities relative to the number of economically active people is apparent in most Third World cities. The deteriorating is made visible through:
 - (i) Growing squatter settlements (or other forms of illegal or informal settlements) and increasing overcrowding in tenements, boarding or rooming houses and other forms of cheap, rental accommodation;
 - (ii) Deterioration of the urban fabric, in particular the existing housing stock, roads and public services and facilities; and
 - (iii) Chaotic and uncontrolled processes by which cities' physical areas expand, especially with the illegal occupation of peripheral land sites by low income people and illegal land developments by land owners and real estate companies.

- 34. To achieve short-term savings by sacrificing infrastructure maintenance, the cities incur long-term costs and liabilities. The costs to public authorities in addressing the backlog in infrastructure and service provision are enormously increased by the fact that no parameters are provided and implemented to guide cities' physical growth. For every year that there is a lack of government action and investment, it becomes increasingly difficult and costly to deal with these problems.
- c. The Shelter Gap and the Illegal city.
- The way in which city inhabitants in Third World cities 35. get access to accommodation and the extent to which they obtain access to publicly funded services and facilities reflects the different political and social orientations of governments. In most cities, lower income households or individuals find accommodation in one of two ways: through renting rooms (in tenements, cheap boarding houses, shared houses/apartments or squatter settlements); or through building or purchasing a house or shack in a squatter settlements (where the land occupation is regarded as illegal by local and national government) or in an illegal subdivision (where the occupation of the land is with the permission of the land-owner or land-developer but where no permission has been given to build by the municipal authorities). While no reliable figures exist, it is estimated that in most Third World cities, at least one third of the population live in houses, shacks or rooms in one of these two broad categories; in many there are also sizeable numbers of people who sleep in some public space - such as on the pavement, in the recess of a public building, in a park, graveyard or piece of wasteland.

- or virtually the only way in which the poorer households can obtain their own house in most Third World cities is by organizing the construction of the house themselves. This is done incrementally, and with considerable degree of self-help from household members to reduce costs. This process is almost always illegal. The land site is either illegally occupied or illegally subdivided. The cheapest and most widely available building materials available are often those that are illegal according to official building norms and standards. The house usually fails to meet official standards with regard to building design or structural requirements.
- 37. Cities are a social product, and the poor and the well-off organize the construction of their living environment according to the resources at their disposal, using their influence to receive public help and public investment in infrastructure and services. The city of the poor is considered as illegal and usually does not qualify for any support.
- d. Decaying Urban Fabric.
- 38. One of the common signs of social stress and economic hardship in the Third World cities is a notable decay of the urban fabric. It is caused by little or no investment in maintenance by city authorities in publicly owned infrastructure, services or buildings, or by landlords in rented properties. The decay is speeded up by the intensity with which houses, services and facilities are being used.

- 39. The decay in rented housing is usually most visible. In renting to low-income people, the landlords minimize capital expenditure on maintenance and maximize the number of people squeezed in limited space. Tenements districts are thus often characterized by buildings in poor state of repair, with rotten doors and windows. peeling plaster, leaking roofs, damp walls and broken sanitary facilities. Public housing suffers from similar problems, with public agencies showing similar neglect for or inability to provide maintenance.
- 40. The lack of maintenance and decay is also notable in the infrastructure and capital equipment of cities for which government agencies are responsible, for example, sidewalks, roads, means of public transport, bus and train stations, etc. Public transport services are overcrowded and overused, and with shortage of capital investment, especially for imported capital goods, it is difficult to replace worn out equipment or to expand the system's capacity. Existing water systems have leaks and decrease the volume of water available. existing sewage systems also have leaks, and contaminate water sources used for drinking, washing and cooking. The expansion in public services and facilities is virtually always far slower than the growth in need. Combined with inadequate maintenance, this lag can mean an absolute deterioration in the quality of service provision and in the number of people reached.
- <u>Health</u>, <u>disease</u> and <u>poverty</u>. e.
- Human condition and quality of life in settlements, for 41. individuals and for the collectivity, encompass such vital issues as the fulfilment of basic needs, provision of work and employment opportunities, and supply of basic services including housing, water, electricity,

sewerage, transport, health and education facilities, Those who benefit from these services and opportunities tend to take them for granted. However, for the great masses of people that live in marginal settlements in the Third World, and who have to struggle with poverty and lead a precarious daily existence, with inadequate and unstable income, these basic entitlements are usually out of reach. In their absence, they also face many environmental hazards associated with poverty and the lack of development, such as biological pollution and communicable diseases, which the citizens of the industrialized North have virtually forgotten to exist.

These hazards are pronounced in densely populated urban 42. areas in the Third World where they represent one of the major causes of morbidity and mortality, especially The situation has deteriorated among the children. notably since the days of the Stockholm Conference, when international attention was drawn to the "pollution of poverty" for the first time. Today, more people face environmental health risks of this kind.

BOX 3

Poverty related risks to human health in Third World urban settlements

- contaminated drinking water
- unregulated disposal of human waste, waste water, and garbage
- lack of drainage and stagnant pools of water which act as breeding grounds for disease vectors
- contaminated fruits and vegetables through irrigation with sewage water
- indoor pollution by smoke from fires and stoves inadequate personal hygiene due to lack of facilities
- dust
- disease vectors and parasites living in housing structures, with access to food, occupants, water
- overcrowding and poor ventilation of housing
- housing sites exposed to floods, slides, industrial accidents
- nutritional deficiencies
- no access to health advice and primary health care.

- f. Environmental Degradation, Pollution and Risk.
- Simultaneously, environmental pollution problems common in 43. the urban areas of industrialized countries in the 1960s, and which are being progressively managed and controlled there, have also spread to the Third World cities. these cities have gained the unenviable status of world showplaces of environmental pollution and stress.

BOX 4

Some sources of health risk in modern urban environment

- outdoor air, water and soil pollution from stationary sources (e.g. electricity generating facilities, various industries located in human settlements, heating or cooling of buildings), and from mobile sources (e.g. automobiles, buses, trucks), including sulphur oxides, carbon monoxide, nitrogen oxides, hydrocarbons, leads, fluorocarbons, sludge, solid wastes, toxic gases and toxic chemicals, radioactive releases, etc;
- toxic vapours, fluids, dusts and aerosols released in the working environment, which affect primarily workers but also escape to the nearby settlements;
- indoor pollution from PCVs and other materials, asbestos, radon, unventilated gas stoves, etc., occurring at higher concentrations due to insulation meant to improve energy efficiency of households and buildings;
- psychological and mental stress of urban living.

- Unplanned and uncontrolled, frequently haphazard expansion 44. of cities and of their economies; high concentration of industry, commerce, services, government administration and investment in one or a few metropolitan areas; rapid increase and concentration of motor vehicles in cities and streets that were not planned for automobile traffic; urban transportation which converges in core areas contributing to saturation and pollution; poorly maintained and older vehicles with high levels of pollutant emissions; growing and diversifying demands of the urban population; the lack of effective planning and regulation systems and of necessary resources to deal with pollution problems; deliberate or reluctant decisions to overlook pollution hazards of foreign and domestic investment; local climatic conditions, etc., have all contributed their share to a dramatic increase of air, water, noise and solid waste pollution, and urban congestion in major Third World Because of greater exposure of population and high concentration of sources the health effects of pollution in some major cities in developing countries have come to be very pronounced.
- 45. The uncontrolled city growth, expansion of illegal settlements, and the survival strategies of the poor inhabitants have also notable impacts on the local environment, such as deforestation of the surrounding areas, loss of green space within the cities, erosion, flooding and loss of valuable landscapes. Illegal subdivided land and small plots, often perched on steep hillsides, have no infrastructure and provisions for entrapment of rain. Without curbs, gutters, drainage system or pavement, rain opens furrows, carries away soil, clogs existing drainage system, causes mudslides and floods.

46. Spontaneous expansion of cities results in urban sprawl which creates a pattern and density of development to which it is very expensive to provide infrastructure and services. In many cities, large tracts of favourably located land remain undeveloped in anticipation of accrued value and future land speculation. This leads to irrational patterns and densities of settlements, which often prevent cost-effective provision of basic services. In a number of Third World cities, prime agricultural land is eaten up by rapid urban sprawl, often with important tracts of land within the city remaining unoccupied.

g. Incomes and Jobs.

- 47. Urbanization in most Third World nations has created far fewer stable, adequately paid jobs than would have been required to match the growth in the economically active population. The lack of income underpins city inhabitants' poor housing conditions. Without opportunities to obtain an income in the formal sector, the poor have to create their own sources of income, through self-employment or in some "informal" enterprise. The poor in Third World cities cannot remain unemployed; governments seldom provide them with unemployment benefits, nor are they members of social insurance schemes again unemployment.
- 48. Thus, while they may not be employed in registered enterprises, they are working, whether in unregistered enterprises, or selling goods on street corners, or making clothes in their homes, or whatever. An important informal sector is thus emerging, wholly outside the mainstream of the urban economy, which engages in production, trade and commerce, and services. The formal sector and the legal

city use the informal sector and the labour provided by the poor from the illegal city. They are usually "over-worked", but grossly underpaid. Indeed, one of the major complaints of the urban poor in many Third World cities is not so much about the poor housing and living conditions they experience, but more about being ignored by the official city and about the exploitation and the "waqes of slavery" which they are paid in their efforts to make a living.

Institutions. h.

- In most Third World nations, city or municipal government 49. is the public institution responsible for ensuring that city inhabitants have reasonable living and housing conditions, access to services and facilities, unpolluted air and water, and so on. In the period of rapid urban growth and the concurrent need to manage this growth through a steady and coordinated government action, there has been little change and improvement in the power, resources and trained personnel available to local governments.
- 50. In fact, there has emerged a growing gap between the legal, institutional and operational responsibilities in planning and maintenance of urban areas, and investment in infrastructure and services, and the ability of local governments to fulfil these responsibilities. It is the city governments that are responsible among other things to control environmental pollution, and to decide on location, characteristics and sequence of public and private investments within the area of their jurisdiction.

- 51. In reality, local government fulfils few of these responsibilities. There has been a trend in many urban settlements for the role of local government to decline. reflecting in part the growing centralization of power and resources in the hands of national government and sectoral agencies. The task of local governments has been often complicated by lack of coordination between investment programmes of different sectoral agencies. Also, the power of local government to raise revenue is limited. Frequently it is not in a position to collect much of the local taxes that it is empowered to collect. cities more than 50% of built-up area is not included in cadastral maps, and property tax assessments are outdated and revenue to be collected is far less than its theoretical yield.
- 52. In sum, local governments generally have difficulties in covering their operating expenses, training the personnel they need, purchasing equipment, making organizational improvements, expanding the range of public services. Their investment capacity is limited and inadequate. are thus seriously constrained in playing their many roles which are of such critical importance for the process of urbanization and urban growth in the Third World.
- i. Prospects and Liabilities of Third World Cities
- Interacting causes and effects have combined to intensify 53. urbanization and urban growth in the developing countries, and at the same time disequilibrate the process and weaken national response and ability to manage it. A series of legacies and accomplished facts have thus emerged in many developing countries, which will be difficult to manage and

change, which will be hard on these societies and their peoples, and which represent important liabilities in their development process. Their options have been narrowed down considerably. Even if the next few years see an end to the economic crisis, its impact will affect cities, their development and the quality of life and of the environment within their cities for many years and decades to come.

- 54. The inevitable fact remains that the urban population of the Third World will continue to grow rapidly for the foreseeable future. According to the most recent projections there will be 800 million additional inhabitants in the cities of the Third World by the end of this century. How precise these projections are is essentially unimportant. Even were they to be off by say 40%, still close to 0.5 billion new inhabitants will need to be accommodated and integrated into the urban economy and society of developing countries during the next fifteen In itself this is a monumental development task that will have to be undertaken in an already unfavourable situation, with scarce resources and coping at the same time with many novel issues related to functioning and management of modern urban settlements.
- 55. To sum up the prospects for the future on a somewhat contradictory note, urbanization will spearhead the development process in the Third World, and will result in more production, more healthy children, more educated and skilled workforces, and cities and countries better prepared to respond to development opportunities and challenges. However, without significant modifications in prevalent approaches of governments and without changes in the global economic situation, these prospects will be offset by more urban degradation and poverty, more

shanty-towns and more poor people, more pollution and pressures on local environment and natural resource base. In some instances, where institutions and structures persist which foster social and economic inequalities, with regard to income levels and employment, satisfaction of basic needs, access to housing, services and land, etc, and where the government plays a weak or inappropriate role in channelling the urbanization process, the situation may lead to social discontinuity.

III CONFRONTING THE URBAN CRISIS IN DEVELOPING COUNTRIES

- In the light of the above analysis, and the Commission's 56. own experience and observations in the field, a number of conclusions stand out concerning some essential strategic directions to manage the transition to more livable and sustainable cities in the Third World:
 - Although there is a strong correlation between the (a) degree of urbanization in a nation and its level of development and income, the processes of urbanization and urban development have not yet obtained a solid footing in the national development strategies and priorities of developing countries. The issues are seldom given consideration in the context of macroeconomic planning. Instead, cities are treated as a residual. They find themselves at the tail-end of many independent sectoral decisions and acts, whose effects overlap and converge on them.
 - (b) While physical planning often reflects the goal of spatial decentralization, infinitely more powerful public policies and public investments often run counter to these goals. Indeed at the national level, macroeconomic and sectoral policies usually serve to accelerate metropolization and centralization.

- (c) At the urban level, city authorities have seen their power, their responsibilities and their ability to manage eroded. Among the prominent reasons for this is the overcentralization of power and resources at the centre, the failure to build up urban technical cadres and institutional capacity needed, and a massive shortfall in resources;
- 57. There is a need for a greater and more effective government role in the process of urbanization. The process of urbanization and urban change in developing countries cannot be simply left to its own dynamics, spontaneity and free market forces. Indeed, the past and present experience with urbanization process in different parts of the world demonstrates that the government is the only actor which can guide and channel the urban growth. Government, at all levels ranging from national to municipal, holds in its hands many levers which if used properly can cope with many problems encountered in the urbanization process and facilitate the attainment of the shared objectives.
- 58. Unless the above realities are confronted, most countries will find it politically and institutionally difficult both to implement national responses to their growing urban problems and to deploy the greatly increased international support needed to make these responses effective. Among the most urgent national measures needed in many countries, the Commission would highlight:

- the full integration of urbanization and urban development with macroeconomic and sectoral goals and priorities, planning and policies;
- the adoption of alternative models for urban development that reflect unique national and local conditions and are more sustainable;
- the development of small and intermediate urban centres;
- the improvement of housing and living conditions for lower income groups, focusing on marginal settlements, by
 - * providing land plots with secure forms of tenure for urban migrants and lower income groups;
- * bringing building codes within reach of low income neighbourhoods;
- * bringing housing finance and credit systems within reach of low income groups

- the devolution of more effective power and resources to city government and the evolution of new forms of local governance;
- the generation of greater self-reliance.
- Internationally, the dominant concern remains with the 59. international economic setting, which has a strong though mostly indirect influence on the urban situation in developing countries. In addition, however, direct international support for urban development in developing countries has been hesitant, ill-defined and negligible compared to real needs. The former is addressed in Chapter XI but a transition to more livable and sustainable cities in the Third World depends critically on extending support for national action.
- 60. At the present juncture in the evolution of the urban situation in the Third world, the basic trends are not likely to change fundamentally for many years. Developing countries confront a huge and rapidly growing backlog of unattended needs, a rising number of urban dwellers, a serious resource squeeze and economic stagnation. traditional responses have not worked and governments have not been in a position to perform their roles. question then arises as to what governments can do to address various needs and facilitate the transition to more sustainable urban settlements under existing conditions of economic retrenchment and scarcity. In rethinking possible

approaches, it is necessary to start from the fact that the cities of developing countries are for the most part being built from the bottom up, by the poor majority who get little if any help, and are often blocked in their own efforts.

In this situation, there are no quick-fix solutions, nor 61. are there ready-made models, manuals and guidelines that a country can follow. The accompanying box illustrates the diversity involved in the urban situation. The above mentioned directions imply a process of development, social transformation and institutional change which will involve search, learning, trial and error and significant political choices. Custom-made approaches will need to worked out locally, corresponding to local conditions, socio-political orientation and the phase of development of the country in question. The following is offered with these caveats in mind.

BOX 5

Factors shaping diversity of environment-development situations in urban settlements

- (i) Nature of socio-political system and institutions, including powers of central and local governments; national development strategy; national strategy of human settlements and urbanization; ownership of land and of means of production; history, culture, tradition, infrastructure and other heritage from the past: etc.:
- Level of national and local development and (ii) economic prosperity; per capita GNP; natural resource endowment; motor car population; etc;
- Physical and spatial characteristics of a (iii) settlement, including its size, geographical and micro-location, topography, climate, ecosystem, exposure to natural disasters, original layout and its objectives, etc;
- (iv) Demographic characteristics of a country and of a settlement, including the size of its population, its growth and composition, migration flows, etc.;
- Social characteristics of a country and of a (V) settlement, including its class character, occupational profile, unemployment situation, etc.:
- (vi) The position and weight of a settlement in the country's economy and political set-up, support it gets, investment it receives, subsidies it obtains, its relationship with other cities and with the rural areas, conditions in other cities and in the rural areas etc.;
- Models of urban development that it follows, (vii) technologies and energy sources that it relies upon, etc.;
- (viii) Its linkages with the world economy, with whom it trades, what is exports and what it imports, the role of TNCs and of foreign capital in its industrial development and services, etc.

A. NATIONAL RESPONSES

a. Integrate Urban and Macroeconomic Policy and Development

- As a matter of priority, governments should bring the process of urbanization and urban development into the mainstream of macroeconomic planning, development strategy and policy-making. They should strive for more effective coordination and cooperation between different levels of government, and between different sectors and ministries of governments. They should work for greater awareness of interactions between policy options and domains, for a more informed and deliberate balancing of these and of various actions and social objectives, including short-term and longer-term goals, and avoid situations where policies and actions act at counter-purposes and neutralize each other.
- b. Adopt Local Models for Sustainable Urban Development.
- The dominant models of urban development followed implicitly or explicitly by developing countries have contributed to and exacerbated the dilemmas faced by many cities. As a matter of priority, given the resource, energy and other transitions underway, these models should be evaluated critically against their implications for national development objectives, resource and environmental impacts, and social and economic costs.
- 64. Alternative models should be devised that take fully into account local climate and environmental conditions, traditional and proven house designs, habits and customs of people, stage of development and societal priorities, social equity, etc. Alternative models should be based,

among other things, on a set of basic goals and indicators for energy and resource efficiency and conservation in industry, housing, transport, urban food sytem, recycling of waste, the need to cut down imports and reduce the burden on balance of payments. should reflect traditional objectives concerning the quality of life and human conditions such as entitlements to adequate shelter, employment, social services including health and education, public services including electricity, water, sanitation, as well as new objectives emerging from environment/development interface, such as those related to air, water and food quality. The elaboration of alternative models should be the first step in their integration into macroeconomic, employment, trade and sectoral policies. They may also serve in the longer run as a dynamic tool and a basic reference to guide the development of cities, comparing the normative objectives with the existing situation.

- Improve Housing and Living Conditions for Lower Income c. Groups, Focusing on Marginal Settlements.
- 65. Degraded human habitats are often perceived as something inevitable and natural, as a part of the linear process of development, a problem which will be taken care of and solved as countries develop. This belief is convenient as it justifies status quo, non-action and non-expenditure to improve the conditions of the poor. There may be a relationship between higher levels of development and affluence and improved habitat for the poor majority, but given urbanization trends in most developing countries, there is no time to wait for slow and uncertain processes to resolve problems. "business as usual" approach is no longer tenable.

- The urban poor will soon become the new majority. they represent an enormous resource for development, a resource that is currently underrated and underused. They are building the cities in the Third World. The so-called informal sector, made up for the most part of the urban poor, has clearly demonstrated a great capacity for innovation and development, finding solutions beyond the reach of conventional wisdom. The basic problem is not a lack of new ideas, creativity, or innovation, but a need to improve institutional capacity in order to make the solutions provided by these enterprising people more effective.
- 67. It is urgent to rethink the ways in which governments in developing countries can intervene in the process of urbanization, so that limited resources are put to maximum effect in addressing the problems and the cities which are built are ones where conditions for lower income groups are greatly improved at a cost the nation can afford. Such rethinking, makes it necessary for governments to address the three interlinked aspects of:
 - (i) enabling the urban majority to improve their housing conditions and the provisions of basic services for their neighbourhoods;
 - (ii) enabling lower income groups to increase their real incomes; and
 - (iii) improving the efficiency with which the city's infrastructure and services support economic expansion.

- Given the great shortage of capital for investment, 68. perhaps the most important resource available to local government is a local population willing and motivated to improve their own conditions. Indeed, these groups have already manifested self-reliance, solidarity, and grass root organization, without which they would not have survived. This process of self-reliance by the poor contributes to national capital formation; it mobilizes under-utilized labour, capital and land and it provides much needed housing, having important multiplier links to other economic activities. cooperation with local populations, and by supporting processes by which low income groups acquire, maintain, improve and extend their homes, there are strategies which can considerably increase the scale of government's impact on the problems in far more costand resource-effective ways than the traditional system of production and construction of shelter.
- 69. Effective government intervention in addressing city problems would facilitate and not hinder this process. It is impossible to sustain improvements in housing conditions unless lower income households have legal, affordable alternatives to invading private or public land or living in overcrowded, deteriorating inner city tenements or other forms of rental accommodation. The combination of high land prices within cities and low incomes are the two factors which underpin poor housing. Squatter settlements or other forms of illegal settlement exist largely because their inhabitants have no chance of affording a legal land plot. Inner city slums exist largely because land prices there are relatively high and there are many low income people who need easy and cheap access to jobs closeby.

- 70. Given the low income of the people who need to live there, it is through the very high densities of occupation and minimal investment in repairs, maintenance and provision of services and facilities that landlords obtain the return they expect from their relatively valuable site. In addition, it is impossible to mobilize people living in illegal settlements to improve conditions there and work with public agencies in installing infrastructure and services if their tenure remains illegal or uncertain. Without some form of secure tenure, neither the formal nor informal sector can afford to invest time and money in improving housing and associated services. Without a defensible claim to land, settlements will always be illegal and temporary, always in fear of processes that will force their citizens to move on. Finally, without government action to guarantee urban migrants and lower income groups access to cheap, legal house plots and without some public control over land use and/or land sales, the problems caused by cities' haphazard physical growth cannot be addressed effectively.
- 71. The small-scale construction sector is often dubbed "informal", because of its tendency to ignore, circumvent or consciously break the formal rules set for the housing sector in planning regulations and building In the process, it demonstrates that in many codes. cases these codes and standards are unreasonable and are a barrier to effective low-cost development of shelter for people.
- Any attempt at developing more apprioriate standards 72. must understand the complexities of this system, and the best results may come from institutional changes. For example, if they are genuinely representative, local governments are more likely to adopt appropriate standards and regulations than are central governments.

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Some standards may be necessary to protect public health and can even be supportive of economic development. What is important is that standards should be absolutely the minimal necessary, in order that they should not act as a barrier to the participation of lowest income households in shelter.

- 73. Tenured land and reasonable standards determined by the people living in an area can facilitate the provision of basic infrastructure such as clean water, drainage and access to an electrical tap. This process encourages self-help and makes more effective use of scarce public sector funds than full-scale public housing projects. In some cases, infrastructure lags because of a lack of co-ordination between a number of public agencies, perhaps even at different levels of government. Setting up further layers of bureaucracy to achieve this co-ordination usually leads to even more inter-agency confusion and rivalry. This is a case where institutional learning is essential. More commonly, the problem is simply a matter of financial priorities. Infrastructure competes with industrial and rural development, schooling and health services for scarce budgetary resources. One great advantage of infrastructure in legal settlements is that it usually results in some fairly direct increase in wealth for the neighbourhood.
- 74. Government support to community groups formed by lower income residents can provide the most coherent and effective ways of improving existing "illegal settlements" and developing new low income settlements. To mount such support, it would be necessary to:

- (a) Recognize the legal right of those living in illegal settlements to be there, with secure forms of tenure complemented by the public provision of basic infrastructure and services guided by their inhabitants' expressed priorities and with their collaboration in implementation;
- (b) Release unutilized or underutilized land and other measures to ensure that land sites for housing are available, which provide legal alternatives to squatter settlements; in this, care needs to be taken to ensure sufficient space for sport, recreation and children's play and good connection to the main centres of employment or income for lower income groups;
- (c) Reformulate building and planning codes so these do not demand unrealistically high standards which lower income groups cannot attain;
- (d) Support the widespread production of cheap building materials and common components, fixtures and fittings;
- (e) Change housing finance systems so these make available cheap loans to lower income groups and to community groups without unrealistic demands for collateral, subsidize interest rates on such loans, etc.
- 75. This implies a different form of government intervention in shelter and housing. It means that government agencies should work to support the efforts of low income groups and their community organizations in improving their condition. It means public agencies working directly with the community organizations which usually exist within the

largely self-built neighbourhoods or tenement districts. in designing and implementing responses to these needs and in agreeing on the relative contribution of each to the implementation. It implies that government acquires a major new resource to help in all investment and maintenance programmes - the support of its citizens who will contribute their skills and energy to such investment and maintenance programmes. But citizens will only do so if they judge such programmes to be in their interest and to be addressing their problems.

Box 6

An illustration of alternative ways to use \$20 Million to improve housing and living conditions of the poor in a city of 1 million

- Option 1: 2,000 public housing units for low income families (6 people) are built at \$10,000 each. Conditions thus improved for 12,000 people. If city population grows at 5% annually, 630,000 new inhabitants will be added in a ten year period: only a tiny fraction of these will have benefited from the housing project.
- Option 2: A site and service scheme is undertaken, with families responsible to build a house on an allocated site, which is supplied with piped water, connection with sewage and electricity grid, road and drainage. At \$2000 per plot, this means housing for some 60,000 people, or about 10% of the population increment in a period of ten years.
- Option 3: A neighbourhood organization grouping 1000 houses (i.e. 6000 people) is allocated \$100,000 to improve its site as it chooses, (e.g. improve site drainage, roads and pathways, build health clinic, establish small cooperatives to produce inexpensive building materials, reblock the neighbourhood and provide new housing sites, etc.). With \$10 million, 100 such community initiatives can be supported reaching a total of 600,000 people, 5000-10000 new housing plots added, many jobs established, and various multiplier effects achieved. The remaining \$10 million could be used for a major investment, such as piped water for the neighbourhoods.

d. Develop Small and Intermediate Urban Centres

- 76. More than half of urban population in many Third World nations lives in small and intermediate urban centres, and given the trends through the year 2000 and beyond, a large number of new centres will be needed and built. The main challenge in managing their growth is to ensure they become foci of economic and social development.
- 77. Many Third World countries have been attracted to spatial policies that could develop small and intermediate centres and, at the same time, limit the growth of the nation's often overwhelming dominant major city. A grossly unbalanced pattern of urban growth can not only increase interregional economic and environmental disparities but also have serious consequences for national unity and political stability.
- Although far from conclusive, the evidence suggests that 78. most attempts to plan the physical decentralization of growth have been unsuccessful. The reasons for this are many but most relate to the institutional and political divorce of macroeconomic and urban policy. Fiscal and sectoral policies are much more powerful than physical planning and regional development programmes and usually run in direct opposition to their decentralization goals. Public investment, in the main, follows the same centralizing logic as private investment, building urban infrastructure, health and education facilities where the demand exists, in the primate city. Subsidies and price controls on food, energy and other services result in an effective transfer of income from the rural areas and small and intermediate centres to the major cities.

- 79. If decentralization is to be pursued as a major goal, policies must be concerted and interventions which have the effect of increasing the attractiveness of the major centre need to be avoided. The best way to encourage the growth of small and intermediate centres is to build on the national economic advantages of their regions and to decentralize the power, to plan the region and provide essential infrastructure and services. National agencies or ministries are not adequately equipped to understand and assess the mix of resources, constraints and linkages which is unique to each centre and to date they have shown little effectiveness in this regard. If governments based in small and intermediate urban centres are to realize their considerable potential in working with local populations to formulate and implement local development initiatives and mobilize local resources, national governments must guarantee them the power, resources and trained personnel to do so.
- 80. Macroeconomic, urban and rural development strategies can be made fundamentally complementary rather than opposed. The development of small and intermediate centres can play a strategic role in the development process, expanding income and employment opportunities in the regions they serve and absorbing population growth that both rural areas and the major centres cannot cope with. As discussed in Chapter VII, strong, small and intermediate urban centres are vital to support growth in agricultural production. They are the locations from which farmers can be reached with better access to productive services, inputs, credit, storage, marketing and processing facilities. They are also the best location through which the population outside large cities can get access to many health and educational services or facilities.

Practice greater self-reliance e.

- Self-reliance of developing countries- collective, national 81. and local - can play a very special role in coping with their urban problems and managing the urban crisis. Tapping the underutilized human potential and resources in the urban areas would ease some of their difficulties, contribute to their environmentally sustainable development and ease the drain on their scarce financial resources. Indeed, cities should view environmental action as an economic opportunity. Two areas illustrate this : waste recycling and urban agriculture.
- Solid waste has become one of major urban problems in many 82. developing countries, with large portions of it dumped and uncollected. An organized and efficiently run system of waste management and recycling would yield a number of development and environment benefits. It would help in the collection of waste; it would result in significant savings of raw materials which could be reprocessed and recycled; it would contribute to foreign exchange savings by reducing the need for importing various materials; it would bolster the local energy situation through biogas production; it would yield fertilizer for urban agriculture through composting of organic waste; it would provide a number of new jobs, etc.
- The promotion and organization of urban agriculture as a 83. complement to food security strategies provides another immediate and feasible type of response to urban poverty and blight in Third World cities. Urban agriculture should be given official recognition and support, and access to available land within cities assured. New technological breakthroughs and experience from intensive gardening practiced in many countries should be diffused and applied to the extent possible.

- 84. Urban agriculture has a long history. For example, it has been promoted and organized in some industrialized and developing countries during periods of emergency and war. Their experience should be drawn on. In many Third World countries agricultural activities are kept out of city bounds, and urban agriculture is limited to cash crops planted at city perimeters mainly for consumption by better-off sectors of population. The primary purpose of an organized urban agriculture should be to help improve the nutritional standards of underprivileged strata of population, to help their family budgets, and where possible to enable them to earn some additional income. Among secondary beneficial impacts, urban agriculture would result in more green space, clearing of garbage dumps, recycling of household waste, tilling of compacted soil, etc.
- There is a great deal that Third World cities can learn 85. from each other in these and other areas. The management and organization of urban agglomerations offers great scope for mutual cooperation. The exchange of information and knowledge, comparative analysis of experience and approaches, pooling of forces in trying to work out solutions to common problems, exchanging technical expertise, jointly training of cadres of urban managers and technicians are all candidates for the agenda. The Commission is convinced that measures to promote cooperation in these areas are essential to overcome the present difficult situation.
- Devolve More Effective Power and Resources on City f. Government
- Past and present experience with urbanization in all parts 86. of the world demonstrates the fundamental role of social organization, strong institutions, and effective government

to guide and channel urban growth and development. In many developing countries this essential precondition for managed urban processes simply does not exist. Moreover, the gap between the rate and scale of urbanization in the Third World and the institutional capacity to manage it is now large and is growing at a dangerous pace.

- In the present context of rapid urbanization and economic 87. crisis facing most Third World nations, the developmental role of the local government and of local democracy assumes great importance. The promotion of new ideas on local government reform is a critical part of the wider effort to counter the deterioration in housing and living conditions and to develop more livable and sustainable cities.
- 88. While many things will be required, experience generally indicates that city government cannot be effective unless it has full access to the political power and financial and revenue sources needed to perform those roles and provide those services that can best be undertaken at the level of the urban region. Given the present situation in, and the enormous pressures on many Third World cities, effective city government will also require novel forms of local governance, recognizing and supporting the institutions that spring up to fill the vacuum of government in spontaneous and illegal settlements.
- There are a large number of functions and services that can 89. best be delivered at the level of the urban region; but which city governments in the Third World rarely have the powers or the resources to fulfill. These include:

- (i) provision to all citizens of those services and facilities which are essential for a healthy and productive life within a city: shelter, a plentiful supply of clean water, sewers, or other means to dispose of human wastes, drainage, collection and disposal of household wastes, and health and educational services and facilities, etc;
- (ii) provision and maintenance of the infrastructure and services essential for the efficiency and functioning of a city's economy and to the expansion of employment, e.g. (roads, electricity supply, telephones, public transport services and traffic management, water supply, solid and liquid waste disposal services for industries and commerce, etc.;
- (iii) measures to ensure the orderly physical growth of the city which in turn demands that land is available in appropriate locations and appropriate prices to provide for new housing and new enterprises.
- 90. In many instances, national governments have assigned local governments many of these tasks and responsibilities, but without corresponding political power, decision-making capacity and access to resources. This leads to frustration, to continuing criticism of local government for insufficient and inefficient services and a downward spiral of weakness feeding on weakness. The needs are staggering; the means available limited. Through what means can local government come to play effectively its dual role as a key developmental institution, and as the institution through which local inhabitants are involved, their needs identified, local development plans formulated and implemented?

- 91. The ability of city governments to fulfill these roles needs to be bolstered through a variety of means. Access to various sources of revenue, tapping more of the wealth generated in the city, for public uses is essential.

 Developing sufficient power to attract scarce but essential leadership resources at all levels is also necessary. The more deliberate application and use of a vast array of tools which have been applied successfully in many countries needs to be facilitated, especially those having to do with control of land use and the real estate market, taxation and cross-subsidies. These instruments assume special importance in view of the polarized urbanization and marked inequities common to many cities in the Third World.
- 92. At the same time, it must be recognized that there is little scope to improve fundamentally the situation in these settlements without dynamic and balanced development, provision of employment, jobs and incomes for their residents, and increasing economic and financial resources to meet the existing and emerging needs. Flexibility of action is increased and new options become available through greater and expanding resources, and a broader spectrum of societal goals can be pursued.
- 93. There exists a great diversity among developing countries in their ability and opportunities to create wealth, and in the levels of development which they have already attained. In a number of large cities of the Third World, per capita incomes are relatively high, a solid industrial base exists, and often a highly skewed distribution of resources occurs, tellingly illustrated in one city that the Commission visited where 1000 square meters apartments were being built and sold within looking distance of teeming marginal settlements and poverty. In these urban areas, though they may often appear as being on the brink

of a disaster, there are also opportunities, scope and margin for internal mobilization of resources and redistribution exists, and dynamic self-reliant settlements' strategies are possible. At the other end of the spectrum, however, there is a large number of Third World cities with low per capita incomes, no solid economic base and prospects, and little to redistribute. Very few options exist there, if any.

g. Strengthen Local Governance and Community Participation

- 94. One of the approaches which is of special importance concerns the link between local government and the community organizations. For the poor inhabitants of cities, their scale of action is confined to their neighbourhood and community and it is here that they organize, often to fill gaps in services which the local government does not provide. Among other things, community groups mobilize and organize fund raising or mutual self help to address environmental and health problems within the immediate area.
- 95. Community organizations could help greatly in improving housing and living conditions, in building, maintaining and improving infrastructure, and in providing basic services. Such organizations usually have the capacity to mobilize labour and to organize a whole range of activities. The local governments should recognize this potential, should support these organizations, acknowledge their rights, powers and roles, and work jointly with them in managing and solving city problems. The decentralization of tasks and responsibilities to neighbourhood level with government agencies playing a major role in supporting and advising community organizations makes the scale of the problem seem more manageable.

Much more needs to be known about the resources the poorer dwellers of cities need, or about the skills and resources that they can contribute. More needs to be known about the ways and means to maximize use of local skills and local resources in producing inexpensive and durable building materials. The lessons derived from the design and technology of vernacular architecture need to be applied, which have been developed over the ages in response to local needs and utilizing local resources. What is needed above all, however, is to give a full policy recognition by governments to the need to develop new approaches and partnerships with low income inhabitants and their organizations.

B. <u>INTERNATIONAL CO-OPERATION</u>

The ability of developing countries to deal with their 97. problems of urbanization and urban development, like their ability to deal with problems in many other areas, is influenced, sometimes critically, by their position in their regional and in the world economic system. While this is the subject of another chapter, the Commission would stress here that sustainable patterns of economic recovery and the fulfilment of development objectives charted over the years in the United Nations would provide the most critical support needed for more effective national responses to the challenge of urbanization in the Third World. A major expansion of cities' exports, for example, could do more to generate the employment income and revenues needed for housing, urban services and development than anything else. Given these and other links to the system and the trends underway, the world community of nations needs to recognize a basic principle of a shared responsibility for dealing with the urban situation in the Third World. This principle should be the very foundation of international strategy and action

on human settlements. It should help introduce a degree of reciprocity into the deliberations on the subject, and provide a policy foundation for mounting systematic and ample assistance to developing countries.

- Increased Financial Assistance for Urban Development a.
- Developing countries have enjoyed a degree of direct 98. international support for their efforts to manage urbanization and urban development. This has taken many forms and has been funded principally through bilateral and multilateral assistance and voluntary agencies. Centre for Habitat and Human Settlements provides planning and technical support for projects funded by UNDP.
- 99. Development assistance for human settlements has been flowing to the developing countries, in both non-concessional and concessional form. Monies have been disbursed for projects involving construction and improvement of shelter, for water supply, sanitation and garbage disposal, for public transport, for improved urban management through tax collection schemes and cadastral surveys, for equipment and training, and so on. absence of reliable figures, the total amount of this financial assistance has been estimated at about \$3 billion annually, disbursed by multilateral, bilateral and voluntary agencies. Of this, \$1.6 billion was in concessional form, or less than 5% of total concessional assistance; \$1.4 billion was non-concessional, or 6.5% of total non-concessional development assistance. This has been minimal compared to the real needs. Moreover, it has reached only a very small percentage of cities in the Third World, often national capitals and industrial centres with populations of one million or more, and it has been parcelled up between many needs.

- 100. In view of the earlier analysis and projected trends, it is evident that there is a need for a continuing re-examination of the need for and scope of development assistance for human settlements and of the effectiveness of the policies and actions of multilateral and bilateral development institutions and banks in supporting sustainable modes of urban development in developing countries. In addition, taking into account the unavoidable gap between the requirements and what is likely to be available through classical modes of international development financing, new approaches to financing should be given serious consideration, including possible reliance on automatic financing schemes. This continuing review might be conducted by the UN Centre on Habitat and Human Settlements, in co-operation with the institutions, and should lead to recommendations both for development assistance targets and for policy and programme changes.
- 101. In the meantime, the bilateral and multilateral development institutions should greatly increase their support in the following areas:
 - institution building aimed at strengthening local government;
 - new low-cost urban development technologies tailored to the needs of Third World cities:
 - information and technology exchange programmes between Third World cities.

Support for Institution Building b.

(To be written after discussion in Harare.)

- Low-Cost Urban Development Technologies. c.
- 102. There is a growing need for technologies geared to the specific social, economic and environmental conditions prevailing in a given setting; their basic characteristics and functions should be determined in collaboration and consultation with the representatives and the people in the social milieu in which they will be ultimately utilized. Special programmes should be launched, with international support, to develop such technologies. R&D should be carried out on the principle of networking of competent institutions, academic and research groups, public and private enterprises. Such technologies should be available on favourable terms and conditions, and should be widely diffused.
- d. Information and Technology Exchange Programmes among Developing Countries.
- 103. Developing countries have a lot to learn from each other. They also can do a great deal together towards resolving their urban settlements problems and jointly developing their management and technical capabilities. industrialized countries have many regional co-operative programmes involving urban ministries and officials, urban institutes, private development bodies and others, at national, state and city level, developing countries have few, if any. Such programmes would contribute to self-reliant approaches to urban problems in developing countries, and to a joint quest for sustainable patterns of development and approaches suited to Third World cities. Most effectively, they would be centred in existing

regional bodies, supported by bilateral and multilateral funding.

IV. A CALL FOR A GLOBAL STRATEGY FOR SUSTAINABLE CITIES

- 104. Mankind finds itself on the threshold of a new era of human settlements and faces a historical challenge to devise appropriate strategies and to implement them. The transition will be a difficult and uneven one, taking place as it does in a global setting which is characterized, on the one hand, by the immense promise for all inherent in high levels of development, prosperity, advanced social organization and S&T achievements and potential, and, on the other hand, by misuse and waste of societal achievements and of environmental and natural resource capital, of global, national and local power, economic and social disparities, inequities and injustices, and of poverty and destitution in which the majority of mankind continues to live.
- 105. By their very nature and because of their being both a cause and effect in many relationships, cities offer a very convenient handle with which to pursue an integrated and "anticipate and prevent" approach to goals of sustainable development. In fact, cities span different levels of action, ranging from an individual's lifestyle and behaviour to such global issues as the functioning of the world economy. They also encompass such varied effects as those concerning health and well-being of city dwellers and global climate change. To achieve sustainable development goals in cities would concern not only the micro level and the people directly involved but would also go a long way towards fulfilment of global and macro-objectives of sustainable development.

- 106. For these reasons, and spurred by the ongoing urban crisis and the failure of the customary human settlements paradigm to provide explanations and solutions, a conceptual shift has been taking place. Cities are beginning to be perceived in their many dimensions; the influences and factors that drive and shape them, and the visible and less obvious linkages that bind them are also becoming progressively better understood. This is not to say that our ability to act upon this new understanding has improved much. However, the very fact that this understanding is crystallizing means also that an important step forward has been made and that mankind and the international community have a more solid and balanced perception from which to evolve the approaches needed to meet the urban and sustainable development challenge.
- 107. The Commission focussed its comments on the urban situation in the Third World as the most pressing and urgent concern. Though the urban crisis in developing countries is a difficult and complex one, coping with it and bringing it to a successful resolution is not a mission impossible. Solutions are within reach provided high political priority is assigned to the subject, adequate financial, manpower and institutional resources put aside for the purpose, social organization applied, civil society and people fully involved in the undertaking, and international cooperation and solidarity practiced.
- 108. The Commission calls for a global strategy for sustainable cities composed of a series of regional strategies to be elaborated, agreed to and implemented over the decades to come. Starting from the urban crisis in the Third World, as the burning issue of the day, the strategy should involve all countries and all urban settlements in a common effort to rethink and reshape the cities of today and to prepare the cities of the future.

- 109. Such a strategy should highlight the needs and objectives, and provide a broad framework to guide national and international action and responses to urban challenge. Responsibilities and benefits should be shared, while tasks should be divided or jointly undertaken. The strategy should contain such functional objectives as improving the data and analytical framework needed to plan and manage cities, and establishing a global reference base of the profile and performance of major world cities as an essential aid in implementing strategy and directing future action. The strategy should focus on critical issues at a given point in time. For example, the objective of supporting the construction of low cost housing for people in the marginal settlements in the Third World cities makes it possible to establish targets and follow their implementation and offers a basis for a major national and international undertaking at the present time. One of the components of the strategy should be that of education and training, both as a way to address and shape the behaviour at the level of the citizen and to sensitize public opinion, and as a means to build-up the necessary talent and technical knowledge needed to manage and run contemporary cities.
- 110. The strategy should deal with enduring issues such as human health and environmental pollution in cities. It should be aware of the role of transnational corporations in the global urban network. In particular, it should aim at harnessing the S&T potential for the purpose of sustainable cities, and as an essential back-up to socio-economic approaches that are likely to evolve. In this context, the urbanization of the countryside assumes importance on account of technological and communication advances and the changing nature of economic activities which are making it possible.

- 111. Cities have a human face. They are of concern to everybody and a good catalyst for action. They are linked evermore tightly through a worldwide economic, transport and communications network, and through the global environment. Cities that provide incomes, better living, healthy and fulfilling environment for their inhabitants, which are less costly and wasteful in terms of energy, time, money, land, and which are less harmful in their impacts on the nature and the environment, are in the interest of all. Their prospects are intertwined. should offer an opening for new types of international cooperation and solidarity, which would cut across traditional institutional and physical boundaries, and via a worldwide network of key points in fact provide access to the very heart of many issues on the agenda of sustainable development. Most of all, cities offer an opportunity to involve directly the people and the grass-root organizations, which would provide the true driving force in the joint undertaking towards and sustainable future of their habitat and of the planet Earth.
- 112. In conclusion, on the eve of the 21st century, the city should be used as a focus around which to mobilize and build a massive global initiative on sustainable development.