## Alternative Scenarios for 'Developing' Countries: The Fundamental Issues

by

Dudley Seers

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A high-income world egalitarian scenario in the middle of the next century is sketched and the conditions for its achievement discussed. The question is first raised whether it would in fact meet the need for creative work or even seem materially satisfying. So far, technical progress has been associated with increased tensions: these could interfere with the growth of output. Another problem is energy. On moderate population projections, the achievement of US or even West European levels of per capita energy consumption by the whole world would imply the exhaustion of fossil fuels within a few decades, and the construction of very considerable nuclear capacity. Another condition for achieving 'modern' living standards on a world wide basis would be the mobilisation of vast amounts of capital. It is difficult to see how this can be transferred to countries requiring a 30 or 40 fold Increase in per capita income, or what political forces will produce heavy internal redistribution. The prospect for the 21st century is therefore one of inequality and inverty. But if worldwide modernisation is not feasible, then policies of opening the door to foreign influences become questionable.

ALTERNA | SCENARIOS FOR 'DEVELOPING' COUNTRIES:
THE FUNITAL ISSUES 1

integral, hoping' countries are now, in varying degrees, discuss into the world political economy, I cannot possible in scenarios without first referring to the do this interest for the world as a whole. Naturally, to input; in woughly would require a very heavy research of the will be reconomy can be broadly discussed, and the help of the will be research.

# A The will | Context

One possition of the long-term world scenario is as follows. By political hiddle of the next century, economic and lifferences will have largely disappeared. The and 'det capita income) between today's'developing' ped' countries will have largely been eliminatormer's faster economic growth. The size of in all continents will be in approximately librium, with an expectation of life of about made possible by the control of cancer and made possible by the control of cancer and librium, but very low birth rates. Migration will colour willed and considerable. Differences in skin be disappearing with inter-marriage. Conformer of income will be greatly reduced.

will in fact be homogenised. The great lillive in modern flats in architecturally less. Virtually every family will own at ar and a battery of electric devices that a land a lattery of electric devices that a lattery of electric devi

lished in "Problems of Cultural Relations in ndent World" (East-West Centre, Honolulu,

Nations will have become virtually a world govern-Civil liberties will everywhere be respected, and will be a high level of popular participation in

sorts do .

d

hyper-modern scenario is widely deemed both desirand inevitable, even among those with very different alitical philosophies. Commissar and capitalist alike from the Hebraic roots of Western Civilisation a found Utopianism and from its Hellenic origins a They in the ultimate triumph of scientific method. They Merefore share a belief that there can and will be a solution some day to the world's social problems. 2 without such perspectives, their careers would lack a meaning, and any ruthlessness involved in exerciswer would lose moral justification). All who share sort of scenario of this kind as a guide to action in fact more in common than is generally realised. they all define the problem to be solved as examinally economic. Second, they all treat economic entrators, especially the national income, as a measure t progress to a solution. Thirdly, they all see the recommendate task as essentially one of 'modernisation', the which is industrialisation, with the modern sector s, reading until it eventually covers 'backward' areas as and, and overcomes the primitive cultures to be found Fourthly, they all assume (and it is merely an \*\*\*\*\*ption) that, after some economic level is univertilly achieved, social problems will disappear (even, in which terms, that the state will wither away).

There is a basic political difference between Left and the form the route forward: whether this scenario will extend the logical triumph of the market system, or will from its crisis and collapse in world revolution. It is along to come about through countries along along various paths that eventually converge). The economic and social objectives there is reasonable agreement. Even apparent differences on the intrational form of this scenario - whether the typical production will be socialist or capitalist - therefore how strong will be the eonomic controls

next 200 years" by Kahn, Brown and Mastell (1976):

"Itel views, "Mankind and the Year 2000" by Kosolapov

and "The Future of Society" by Modrzhinskaya and

"Yan (1973). A characteristic of Kahn's work is

"Country and the Accepts a high degree of inequality as neither

nor politically implausible.

they seem: the question is whether big public or

certainly evidence that, in many respects, we are in the general direction of this scenario. Economipolitically and culturally, an international system riging - incompletely and fitfully, but definitely shape. Moreover, the causes are fairly obvious. Intal and expertise requirements of high-technology notably aircraft, require output in each industry concentrated increasingly in a few models produced few transmational firms, eliminating small and medium ters and their brands. International agencies are preading rapidly and, like the transmational corporatively require denationalised staff.

argue that this Utopia, is nevertheless unattained that policies based on its feasibility are rously mistaken. But first let me declare my own lices. Of course, any sane person must welcome some of the Utopia especially a secure peace. Of it would be an immense social gain if basic hal needs were met. But taken as a whole, a scenario type arouses in me feelings of horror and revulsion may be reflected in my professional criticism. In of course a subjective judgement, and therefore on tific. But there is no objective way of choosing iteria for evaluating long-term scenarios, because really involved is the meaning of human existence.

entally one's choice of criteria is intuitive, and private set of values ('objective function') gives weight to human differences - in nation, race, sex, ability, etc. - and to creative work and sheity. Although personality cannot develop unless in basic material needs are met, these are obviously lart of our requirements, and if their satisfaction sacrificing the roots of personal identity, or horing and repetitive work, either on assembly in bureaucracies, these are heavy costs to weigh the benefits.

familiar with some of the literature in this field lice that there is strong correlation between what the that doom is night seem to enjoy doing so.

rying out such an intuitive cost/benefit appraisal, muld bear in mind that these needs can be exaggerafor the great majority of mankind, the basic
leal needs (for food, water and shelter) have already
lead: many of the further needs we see as important
luding more food and many housing amenities) have been
luding more food and many housing amenities) have been
luding induced - by emulation and advertising, in fact
line very process of modernisation itself. These are
not needs: indeed, some of them are damaging
leating foods, cigarettes, high-speed cars, etc.).
leating progress can, therefore, never satisfy even
leating demands because it creates new ones all the

who object to them, as contrary to their own Marxist liberal ideologies, or to their introspective assession of how deprived they would feel (and why) if their ent income were halved, can only refer to a different litive belief, which underlies these ideologies, mentially that human beings are perfectible if consumption wants are satisfied.

11 to say that these are non-verifiable propositions is . to dony the possibility of finding material that light on them. If material progress is a sufwe may - for a decline in neuroses as levels of living rise, therefore in such symptoms as violence, mental illness, facide and addiction to drugs (whether in a more-or-less and state, like tobacco and cannabis, or fermented into and spirits, or manufactured into sedatives). finally, it is of course common knowledge that, on the Attary, there are upward trends in these symptoms in with the capitalist and socialist societies. There is retainly evidence of violence on a worldwide scale in 1970s, not excluding countries where material pros-"Ity is greatest - rioting, looting, assassination, won, bombings, kidnapping, hijackings, etc. While are various explanations of why these have become conspicuous, they must be broadly the products of Manna in modern society related directly or indirectly technological advance. This suggests that the price All for material progress is high.

Ty, however, not merely seem biassed, but be profesmily ineffective, to base a critique of modernisation conal doubts about its widely accepted desirability. Tuns the risk of being dismissed as another 'back to te' crank. So I shall concentrate on whether this to is internally consistent - whether a homobus Utopia is in fact possible.

## Political conditions

are the social stresses of high technology not intrinsically undesirable but also capable of underthe levels of production it makes possible and manpower to be diverted into security services?

The argued that mental illness, suicide and drug and have minimal effects on output. But violence inly could become a threat to the functioning of society. So could strikes, the frequency and modern factories apart from the desire to obtain many modern factories apart from the desire to obtain the affluence that seems readily avail-

ver, the modern economy is so inter-dependent as to be vulnerable to its social stresses, as input-output reveal: holdups even in the manufacture of ball man, say, let alone in electric power supplies, can production in a large sector of industry. The social is also vulnerable. Socio-economic unrest can pro-authoritarianism, as can be seen throughout the 'Third the This inhibits innovations and their communication, these are necessary to scientific advance and therefore mately to the creation of the life styles the scenario

Is there not a possibility at least that militarian regimes (which take power with the slogan regimes must be restored) will take advantage of the public scrutiny of their policies to threaten the fine military products of modern technology, raising theor of a pre-emptive strike, especially if their are precarious. One could certainly find material mort this view - as one example, the Arab-Israeli Arabor war, or even a series of localised contould play havoc with the whole scenario.

Mic also inconsistencies (or as Marxists say 'internal lictions') in this scenario which are more specificonomic and therefore professionally more respect-the worldwide spread of modern technology would amounts of energy, capital, etc., which can, roughly and partially, be quantified. These would arise first out of the increasing popusionally in 'developing' countries, second from a disumption.

#### . From pressure

many projections of world population, depending assumptions about fertility. Here I shall only sets which have been thoroughly worked out; the United Nations<sup>4</sup> and Mesarovic and Pestel<sup>5</sup>:-

### Table 1

#### World Population Projections, 2000 and 2050 (billions)

		1975	2000	2050
et Nations -	Medium variant Low variant	4.0 4.0	6.3 5.8	
vic-Pestel	- High variant - Low variant		6.7 5.2	11.2

In mortality. I have omitted two higher UN variants, ten constant and gradually declining fertility respective cause since 1973 it has become clear that fertility moderate and fast fertility declines (outside for turope where it is assumed to stabilise). Intervalues of 6 billion (2000) and 9 billion (2050) will for the purposes of the rough estimates in this paper, and a growth of 50% in the last quarter of this century of the first half of the next, with a condeceleration. Some such slowing down would be taken to make the scenario realisable.

<sup>\*</sup> Gd Population Prospects, 1970-2000" (ESA/P/WP.53.1975)

the Turning Point - The Second Report to the frame" (1974).

Council Annual Report (1975).

## Inergy Constraint

projections for population can be combined with two theses about energy consumption. The implication of the in a Ford Foundation study is that, by the year US consumption of energy would rise from its 1970 of 12 tonnes of coal equivalent (tce) per capita to the assumption that relative energy prices returned the early 1970s level. This would correspond to upper-title-class US consumption levels today. If we take this the world average in the mid-21st century, as is more less implicit in the Utopian scenario - let us call this teario A - and the population projection suggested above, not very heavy energy consumption indeed, as Table II

#### Table II

The implications of different hypotheses on world energy consumption for 2050

Asgumed average (toe per capita)	World Total in 2050 (billions of tce)	Approx 1974-2050 cumulativea (billions of tce)
enario A 28 (US, 2000)	252	10,000
enario B 6 (Sweden, 1974)	54	2,000

The area under a logarithmic curve assuming a constant of growth.

Can be compared first with the actual world consumption less than 9 billions toe in 1975 (2.25 toe per capita), second with proven reserves of fossil fuels (coal, oil natural gas) at about 1,500 billions toe, mostly coal.

have drawn the basic material on energy consumption a chapter by John Chesshire and Keith Pavitt in Ild Futures: The Great Debate" ed Chris Freeman and Japoda (Science Policy Research Unit, Sussex, to be highed by Martin Robertson in 1978).

Time to Choose" ed David Freeman (Ballinger, 1974).

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How for hydro-electric power and for ultimately fossil fuels being several times as great as groven reserves. There are of course also other Intional sources of energy which have hardly been 111 (geothermal, solar, wind, tidal). These wever, technical uncertainties (especially in rage) and timelags and capital costs, as does the of reserves yet unproven. So this hypothesis restricting fossil fuels (even in countries are abundant) to prime uses, especially vehicles ry efficient and light-weight storage batteries ped).

"Iso mean the development of very great nuclear in particular breeder reactors. The greater his capacity would have to be constructed in which would be very short of fossil fuel rethe consumption levels postulated. The capital broducing enough money to raise the whole of Asia ly), Africa and Latin America to this level would so would the environmental problems. These ould be consuming more than three-quarters of is total energy. Moreover, fossil fuels would Tensive as they became more difficult to extract, duction declined in an increasing number of rs, aggravating their need for revenue. n to stimulate production of new sources of energy, or countries with limited reserves of fossil fuels v energy or install massive nuclear capacity, it The them even more severe financial problems than I price rises, making it very hard indeed for them up economically.

> "ucy of 'modernisers' faced with such arguments is, Ally, to fall back on miracles - in this case a hat ways will be found to develop unconventional energy in time and cheaply. And that some system discovered for monitoring the output of plutonium folling its uses, involving even more remarkable 'Ative and political assumptions. Much the same Answer are offered to those who point to the muclear 'incidents' and the certainity of highly Weffluents difficult to store.

, it is very doubtful whether such immense nuclear would be consistent with the libertarian aspects chario, in view of the serious security problems baclear power stations, and whether this capacity restricted to peaceful uses.

hard to avoid the conclusion that scenario A has to be Let us turn to an alternative scenario (B), in modest consumption standards and patterns are and al, such as are current in Sweden, where energy contion in 1974 ran at 6 tce per capita. Yet this would too big a growth of energy consumption to be by fossil fuels, or even non-conventional sources. to reach the level projected for 2050 in Table II require supplies of at least 20 billion tce in the or more than double the level of 1974. unlikely that energy from fossil fuels could double in period or great progress be made with new sources. fore nuclear power would have to make a contribution order of 5 billion tce, and rising rapidly, involvincreasing reliance on fast breeders in the 21st centhough not nearly as much as in scenario A. It is arawing attention to the fact that heavy reliance on not power seems very probable in Sweden itself in the future, and it will be inevitable when oil becomes STAFFIEL.

the reductions in energy consumption are, however, and by scenario B for the USA where per capita consumptions already more than twice the figure mentioned above, for their increases would need to be prevented throughout developed' world. On paper, the growth of energy use halted by various means. Improved energy convertechniques could make some contribution. But incomes industrial production could only continue to rise in the and other developed countries - with average energy montion being held to this level - if there were subtial changes in patterns of consumption, especially than in the use of energy in private motoring, central heating, electrical gadgets, etc.

these changes be brought about? Of course, in energy prices are virtually implicit and would to change consumption patterns in the right direction, would hardly be compatible with an egalitarian as has been pointed out above. So either a halt to growth or strict consumption controls (or taxes) meeded. Yet there seems, even embryonically, thation of forces in international or national powerful enough to compel the publics of 'devenuantries to accept an end to economic growth or

OPEC countries, notably Kuwait and Venezuela, has already passed its peak and is likely to further by 2000. To double coal output would heavy investments.

their life styles to this degree. On the companies and unions in sectors producing energy, ally electricity, and equipment for energy production, energy (especially motor cars), would be adversaries. In the absence of a feasible politimanism, why should even this, much less ambitious be taken seriously?

contially threatening problem would be raised by cartioxide emission. Il A cumulative energy use of 2,000
In tee (largely of fossil fuels) over the next 75
would cause a total emission of over 2,000 billion
of carbon dioxide. Even if half of that were
ted, mainly by the sea, as is believed to be happening
(and there is some question mark over the absorpapacity of the oceans), there would be a significant
to the amount currently in the atmosphere, about
billion tonnes. Each 1,000 billion tonnes may raise
arrage temperature of the earth by more than 10C.

ver, we need to allow for the dust particles, some of coriginate in the burning of fossil fuels, also thing surface heat radiation. However, it is by no certain that this warming effect would be unwelcome.

Experts argue that this 'carbon dioxide greenhouse'12' if industrialisation has recently been offset, at to 1970, and even outweighed by basic cooling tencies, also partly man-made (due to deforestation etc.)

to ending economic growth would mean changing life because of the employment problem. Growing productionally only be offset by increased leisure and shifts the intensive forms of production, if unemployment to be avoided.

the bound here on a draft chapter for a study to be the by the INTERFUTURES group of OECD.

that ic changes in the coming decade" by George Kukla

That for the Future Vol II No 1 (UNITAR, 1977).

The following issue in which Irving Kaplan makes

extreme) suggestion that there is a basic cooling

to a decade and forecasting a climatic crisis in

trend is apparently unpredictable in the present knowledge, but whichever way it went its effects could be very serious. 13 (Another argument scenario A is that it might well have devastating especially on the polar ice caps).

### inital needs

reage of capital has already been mentioned as an entiment to solving the energy shortage. However, even that it is would require very big capital investments in sectors. Of course, capital is only one requirement growth (less important than technical progress) but it is contial.

rer capita income of Sweden was \$ 7,200 in 1974. If porest countries are to achieve anything like this level, say \$5,000 (at 1974 prices), the great bulk really investment would have to be devoted to Africa, and parts of Latin America - the opposite to its reent distribution.

there were 33 countries in 1974 with a population of 1,130 Clions where income was less than \$200 per capita where income was less than \$200 per capita with one must take these figures as very tentative incomes in poor rural areas are very inadequately Their average income was \$130. To raise that , , , wo would mean a nearly 40-fold increase: if it is to be done by 2050, that would require a growth of 5% These countries, which include India, Indonesia, function and Bangladesh, are among those where population at a relatively fast pace, and might well treble the next three-quarters of a century 14 (this would need than 2% a year) so that total GNP would have to rise than 100-fold or say by \$20,000 billions. Using a ly arbitrary incremental capital output ratio of 3 low in view of the capital needs of energy above), referent altogether, starting with an annual rate of billions in the 1970s, and then growing rapidly,

would in any case be something disquieting relying on a canopy provided by burning fossil fuels a descent, possibly a swift one, into another ice

In line with a trend intermediate between the and 'low' projections for South Asia, but one other sceptical about the implied density of there are already signs that mortality is fall in this region.

qualent to 20% of GNP. This is quite beyond the savcapacities of the countries concerned, especially
their incomes are to become less concentrated, and
is to be more participation in government. The
apital requirements of scenario A would of course be
an greater. Since the energy constraint (at least for
elst century) is ultimately a capital constraint,
all that one need to say to demonstrate that a
forn' living standard for the masses of South Asia or
meral other regions cannot be financed out of their own
ferources within the foreseeable future.

per possibility is an increase in foreign aid. This would have to be massive and on very easy terms, but one back to the question: where is the necessary political force to come from? Humanitarian motives in rich countries are not to be despised, but in fact they have carried title political muscle so far. Moreover, as energy tiplies become more expensive, the long-term economic tends of many rich countries which import oil will intende chronic inflation and recurring foreign exchange teffcits: these will induce deflationary policies, further weakening their aid lobbies.

concervably, concerted action by the governments of 'develing' countries, using their bargaining weapons collectly, could shift capital towards them via commodity topport and other devices. Indeed, this is what has been sery roughly sketched in the 'New International Economic ter'. However, there is little reason to expect from ant diplomatic history that such a coalition would surthe the detailed and strenuous bargaining need to bring thout such a redistribution of the world's wealth.

Another possibility which somehow sustains the optimism The me is that a united international prelotariat will merthrow world capitalism at its centre. It is now very nonable whether this old dream is in any way \*\*\* Real wages in 'developing' countries can only be increased greatly without depriving 'developed' 'ries of the means to buy enough energy and other resources to maintain the real incomes of their \* withing classes. Even were a revolutionary governtake over a core-capitalist country, it could afford to let real incomes, especially of indusworkers, decline substantially. What the oil crisis lated raw material shortages in recent years have to expose the lack of fundamental common interests, in any case been undermined by the widening of ational wage differences in the past century, and to nationalism.

### Some other constraints

Another possible constraint would be educational. To raise the technical level of the population, especially of Africa, to today's West European levels within 75 years would be an immense task, especially in tropical africa. It would imply achieving virtually universal education up to age 16, and numerous big institutions of higher education. This would not in itself be impossible. It would, however, increase the financial strain on the poorest countries, especially in view of the large and increasing fraction of their population in the chool age groups. It would also require the retention within the educational system of a big fraction of the matput of its higher level to teach the swelling numbers: this would make it more difficult to find the malified manpower for the other sectors.

the community had full access to secondary education, there would be a big question about who would do the mount jobs, especially on the farms, in the mines and the hotels. This gap has been largely filled in Western intope and North America by use of migrant labour and by mechanisation. But there would, in this scenario, be no prour available (even for the 'developed' countries to import) and widespread mechanisation in 'developing' countries would make the capital costs of full employment extremely high. A degree of direction of labour would seem inevitable, as in the socialist countries to-day, but that would be a major defect in the scenario.

despite the prospective continued loss of agritural land due to erosion and urbanisation. Total
doutput could no doubt keep pace with the increase
world population indicated above - a rise of 1% a
would suffice.15 In many areas, however, food
sumption would need to rise much faster than this
he near future, not merely to achieve nutritional
he which are acceptable on humanitarian grounds, but
satisfy the scenario. One reason is that if
he are born and grow up undernourished in the last
for of this century, the work force of the next will
bhysically or mentally capable of the output
heeded even on scenario B.

are, however, great doubts about the possibilifish output rising substantially, especially if
for the increased hydrocarbon pollution of the
both fallout and tanker spillage) implicit in
fine. In addition, growing pressures on land
fine meat production. A faster increase in crop
fould therefore be needed.

A fast increase in agricultural production in Africa and Asia would be implicit in the scenario, not merely to satisfy food needs, but also to provide employment, especially in the decades before urbanisation there is high. This raises problems of rural organisation, including technological diffusion and reforming systems of land tenure, and the time lags involved are great. To increase food consumption to adequate levels in the poorest areas with the fastest increase in population growth (and the greatest difficulty in affording fertilisers and other inputs) could hardly be Hone without an acceleration of the current flows of food from the main cereal exporters, especially the USA, and heavy internal redistribution of income. Questions are again raised about the political feasibility of this. whether we look at the international or internal requirements, and also about its economic implications, because is difficult to transfer food without discouraging its production by recipients.16

Metals could be another constraint, especially on achieving world incomes of the levels indicated above, but the possibility always exists of mining lower-grade or deeper ores in response to rising prices. This will only slow world economic growth if policymakers cannot either control or tolerate price inflation or find it difficult to raise the necessary capital.

Farious types of pollution (pesticides, phosphates, nirates etc) would also be very high at these levels of output. The problem is one of identifying and then abating them. It seems that considerable progress has already been made in the former and that the costs of the latter need the unreasonable. 17 The problems are again ones of political motivation, in this case especially in the countries that would need to grow fastest.

There would also be resistance on the part of food importer, especially Japan and many Western European countries, the terms of trade being turned in favour of food proers, as this scenario implies.

The United Nations World Input-Output Model", W.

sum up the argument so far, it is technically and economically unfeasible — if only because of the energy and capital implications — to achieve by the middle of the next century consumption standards for the mass of the world's population at a level corresponding to today's higher incomes in the United States, if only because of the energy and investment demands. Equality at less energy-intensive levels, such as those of Sweden today, would possibly be technically and economically feasible but politically highly doubtful, because it would mean putting a ceiling on incomes and/or drastically changing consumption habits in the 'developed' countries.

In fact, the only reasonable expectation is that there will still be large international inequalities in the middle of the 21st century, although around an income level much higher than today. Some people will, as today, enjoy 'modern' living standards: some will not. Whether any individual does so will depend, also as today, partly on what bargaining strength his or her government possesses or can develop. Indeed, in the harsh world of natural resource shortages, bargaining capacity will be more important. Oil exporters will enjoy long-term improvements in the terms of trade and fast rates of economic growth as long as their oil revenues persist. But there is little prospect of countries without many trump cards to play, or considerable technological and political capacity, doing much more economically than keeping pace with population growth, unless it slows down considerably. Big, poor countries, like India, Bangladesh, Burma and Egypt, may well continue in a state of semi-stagnation. So, while there will be changes in the ranking of countries, the prospect 15 for the concentration of income between them to continue increasing.

#### R National scenarios

#### Income distribution

In the us however also explore the consistency of the internal the mensions of the scenario sketched at the beginning. This also envisaged greater equality within countries, especially the solution of these, the poorest 40% only 9% of income<sup>18</sup> (although the caution about rural

Income Inequality" by Montek Ahluwalia in Redistri-

income measurement must be born in mind), as against 14% of income in Sweden. Even if average incomes rise 40-fold, as would be necessary in some countries to achieve scenario B, let alone A, the incomes of the local rich would have to be held back if those with the lowest incomes were to attain current Swedish-style levels of living. Yet it is precisely those who are already rich who have the technical expertise and capital to benefit from growth and there is little sign of a decrease in the concentration of income in any of the fast-growing economies where this can be measured.

What would be needed to achieve such massive internal redistributions of income would be drastic changes in the ownership of property, particularly land. The scenario would be incompatible with anything like the present concentration of land ownership, if only because large farms are normally producing at low levels of output per hectare, mostly livestock products, so the necessary rise in cereal output could not be obtained; yet landowners constitute one of the main bases of political power for existing regimes. The scenario would also imply taking away many of the economic and political privileges of state bureaucracies. To identify plausible internal forces to bring about the situation described in either scenario is almost as difficult as to discern what would achieve it on the international plane. 19

Those living the 'modern' life have every incentive not to give up their privileges, even if it means (as it often does) using political repression to preserve them: indeed the increasing price of oil has already reinforced their determination not to sacrifice energy-intensive life styles. Such consumption tastes are shaped by external cultural examples, in contrast of course to those of their counterparts in the industrialising countries of Europe in the 19th century. They also receive political support from abroad (which inhibits their exercising what bargaining power they have in international negotiations). Moreover, world scenario B requires them not only to accept such economic sacrifices but simultaneously to implement complex socio-economic plans that would need great effort and judgement. Yet it has been argued that scenario B is politically unfeasible - in that event, all the capital and educational costs of ending massive rural and urban poverty would require even greater internal redistribution.

One consequence is that a fast decline in population growth and its levelling off seems improbable. Population

Not quite, because those who are most deprived can get within stone-throwing distance of the national elite.

must ultimately be an endogenous variable in scenarios, and though the causal mechanism is complex and not clearly established, it clearly depends in large part and general on socio-economic progress.

The original vision of 'dualism' theorists was that the modern sector would spread gradually until it enveloped the whole population - as had apparently happened in the 'developed' countries. This is obviously very improbable.

#### External\_Links

Here we have come to a crucial point in the argument. Suppose the contrary were true and 'modernisation' could be relied on sooner or later to eliminate poverty, and create internal scenarios with high and fairly well-dispersed incomes. Then it would be argued that the optimal strategy in most 'developing' countries would be to open the doors to the inflow of foreign capital and technology and the associated political and cultural influences, because the price in terms of the partial destruction of national culture would, on humanitarian grounds, be worth paying and perhaps be politically inevitable. It would be correct to consider, as 'modernisers' do, local languages, religions, traditional customs, etc. as 'obstacles' which would (no doubt regrettably) need to be removed. But it is clearly not worth paying that price unless there is a good prospect that this sort of scenario can in fact be realised. A more plausible world scenario is indicated by this analysis - and in my personal view also more desirable. It envisages strong and more independent nations (not necessarily with the same frontiers as today) restricting foreign political and cultural influences, and therefore limiting economic contacts. Consumption would be physiologically adequate but its pattern would not be a copy of those in the 'developed' countries. Development plans would build on local traditions, which would be seen as the essential conditions of achieving the scenario not as 'obstacles'.

This does not by any means necessarily mean autarchy, i.e. cutting off foreign influences completely. For countries that are already integrated into the world economy, especially small ones, this option is not really open. In many, industries rely heavily on inputs from abroad [e.g. tractors, mining machinery, steel, heavy chemicals]. It maments, food and energy often have to be imported. It is hnological progress may be largely obtained through the transnational corporations. To sever external links with the major powers would mean painful social costs in the form of increased unemployment and lower real incomes for large sections of the population, especially those in the form of industries, the bureaucracy and sections of the infessions and industrial working classes. In such the infessions and industrial basis for a 'closed door' policy therefore narrow. On the other hand, those opposing

such a policy get powerful foreign support, including on occasion military intervention. 20

One should not draw the conclusion, on the other hand that a more egalitarian and self-sufficient scenario must necessarily prove unworkable. Great political change can be expected in many countries because of growing income inequality and the continuation of severe poverty. What it does mean is that to succeed, a revolutionary strategy would need to allow scope for foreign links for some decades at least. This appears to be true even of China, to judge from the defeat of the xenophobic and highly egalitarian 'gang of four'. It is true a fortiori of smaller countries which are much less able to insulate themselves politically, culturally or economically. 21.

The clue to the survival of any type of government is a selective policy towards foreign influences, judging each proposition (e.g. an investment project) on the basis of an objective appraisal of its social costs and benefits. This applies to 'developed' countries as well as the 'developing' (and the previous sharp contrast is becoming obsolete). Selectivity has been and still is the Japanese practice. It is now implied by the very elastic term 'self-reliance'. It means training cadres capable of deciding what foreign inputs are necessary for national development; how high a price should be paid for them (in cultural and political as well as economic terms); and which country is the best source, taking account of the need for a technology appropriate to national circumstances - and of the intrinsic advantage of diversification. It also means avoiding being politically dependent on any single great power.

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<sup>&</sup>lt;sup>20</sup>. All this was demonstrated by the failure of the insurrection in Sri Lanka in 1971, which was based precisely on a policy of achieving autarchy by converting the tea estates to food production. Support from Colombo workers, which the JVP hoped for, never materialised.

<sup>21.</sup> It might be argued that the Cuban Revolution has survived despite the severance of nearly all links with the United States. However, this was largely due to the Soviet government stepping in to replace the United States and to offer not merely a guaranteed market for the leading export (sugar) but also credits for arms and for the inputs essential to keep the economy running. They could hardly provide help on this scale to many countries (even if their basic foreign policy in the years ahead permitted them to sponsor additional revolutions of the Cuban type).

Such a basically nationalist strategy also requires a sufficient cultural basis and a knowledgeable political leadership.

#### National Structures

Here we come into a field where the crystal ball is even more cloudy, and generalisation very difficult. However, it seems that the scenario just sketched may require the elimination of caste and other social differences, and a moderation of income inequality, to achieve the necessary national unity (especially since egalitarian ideas cannot be completely kept out, in the late 20th century). Moreover, import-intensive consumption patterns cannot easily be changed without reducing the concentration of income. However, policies to achieve this would come up against the same vested interests as would obstruct egalitarian tendencies in the 'modernising' scenario. In fact, a scenario of this type might well also prove unattainable in countries with deep social and/or ethnic divisions. In such countries, the likelihood is a continuation of a vacillating strategy, alternating between different ideologies and different internal and external sources of support as they each in turn prove politically unmanageable. Ghana has been a case in point.

Size may also be a constraint. Very small economies can hardly develop the necessary bargaining capacity, and their specialised economies are likely to be heavily dependent on foreign markets as well as foreign sources of the essential goods listed above. In economic theory, these weaknesses can be reduced by regional integration, but so far, none of the regional groupings of small countries (in East Africa, the Caribbean, Central America or the Andean region, for example) have been very effective. There may not be, even in these groups of neighbours, efficient cultural and political homogeneity to build the political framework for integration. 22

Some countries, like Puerto Rico, may be able to reduce poverty by becoming part of a big neighbour and enjoying the guaranteed protection of its fiscal system. There may, however, be a heavy price to pay in the weakening of national culture, for example the perversion of music and dances into entertainment spectacles, and a contamination of the language.

Some countries may seem to have sufficient assets to be able to envisage a future scenario with a high degree of self-reliance, e.g. oil exporters. However, most of them are heavily dependent on foreign firms for production technology and for marketing their oil. Moreover, the exchange rates and wage levels made possible by oil revenues inhibit the emergence of other sectors, so that when oil revenues decline, the economic structure ceases to be viable. Despite the prospect of rising oil prices, such revenue declines are likely before 2050 for all existing exporters, except perhaps Saudi Arabia, because of the exhaustion of resources. In the meantime, in the smaller ones, national unity is undermined by dependence on migrant labour, and great inequality.

It is the larger economy, with oil enough to provide for local needs, but not enough to distort the economy (e.g. Brazil, Nigeria, Indonesia, or China) which is most likely to achieve high incomes, widely dispersed, and a degree of self-reliance in the next century, provided social and ethnic differences do not disrupt them.

Further than this one can hardly go. The analysis points to a patchwork map in the next century, with some countries still dependent on the capitalist powers and showing income and internal inequalities, alongside perhaps neighbours with more highly controlled economies linked to the Soviet Union or China and others (probably bigger) able to pursue a partially independent strategy with a big emphasis on nationalism. In another dimension, some would have very high average incomes by today's standards, high enough to have eliminated mass poverty: in others, the combination of slow growth and increasing inequality will imply that large-scale poverty persists.