THE GPID(L) WORLD MODEL:
Some Basic Aspects

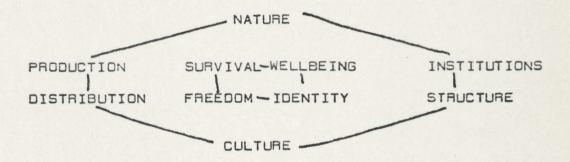
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13

Goals, Processes and Indicators of Development Project; Institut Universitaire d'Etudes du Développement, Genève

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Human societies are entities in process, they evolve and devolve, more or less; they do not necessarily develop. To explore this a balance has to be struck between an analytical framework rich enough to accommodate many dimensions of analysis, yet parsimonious enough to permit a certain economy of thought. As the GPID project is an exploration in human and social development these two notions will be taken as basic, and the former will be subdivided into four, the latter into six aspects:



There is an "inner circle" for https://www.human.development seen in terms of the satisfaction, and further development, of sets of needs; and there is an "outer circle" of social development seen in terms of the type of evolution of the six aspects that would be conducive to human development. This immediately raises the question of whether there is a positive feed-back here in the sense that human development, balancing the satisfaction of survival, wellbeirg, identity and freedom will be conducive to social development - and one assumption is that identity, under certain conditions, will provide a linkage to society in general, and nature and culture in particular. A developed human being will care for these aspects of his/her environment, a maldeveloped one not. Like a developed society for the world.

All of this is seen as in constant flux, in process; being defined and redefined. There are goals for all ten that together would constitute a <u>normative model</u> - one example is given on the next page. There are <u>dominant processes</u> and <u>counter-acting processes</u>, also in the goals - some of them to be described later. And there are actors trying to bend the processes towards the goals - such processes are called <u>strategies</u> of development.

THE GPID(L) NORMATIVE MODEL: GOALS OF HUMAN AND SOCIAL DEVELOPMENT

HUMAN DEVELOPMENT

- sustainable satisfaction and development of basic human needs (neither under-, nor over-consumption of "satisfiers") facilitating or at least not impeding the human development of others
- a) surviva needs (negation:violence)
- for realization of potential biological life-spars unhampered by direct and structural violence
- (negation:misery)
- for food, clothes, shelter, health care, education, "comfort", transportation/communication; for energy, etc.
- c) Identity needs (negation:alienation)
- for closeness to self and others, society, culture and nature
- d) Freedom needs (negation:repression)
- for the possibility of choice, and for a conscious choice

SOCIAL DEVELOPMENT

person-made environment compatible with human development

e) Production

- in a broad sense (formal, informal; goods, services) with priority of production for the satisfaction of basic human needs;
- f) Distribution
- so that priority is given to those most in need, building social justice and increasing equality among nations, classes, races, sex, age and ethnic groups.
- g) Institutions
- building institutions for the enactment of these goals, avoiding excessive sectorialism and giantism

h) Structure

- building, through participation, self-reliance at the local, national and regional levels, thereby also preventing that development is at the expense of others today or in the future (synchronic and diachronic solidarity) - such "development" being called exploitation; building equity at all levels

i) Culture

- doing all this in a way compatible with those aspects of the endogenous culture that are compatible with the above.

j) Nature

- maintaining and building ecological equilibria so as to prevent depletion and pollution, on a sustainable basis.

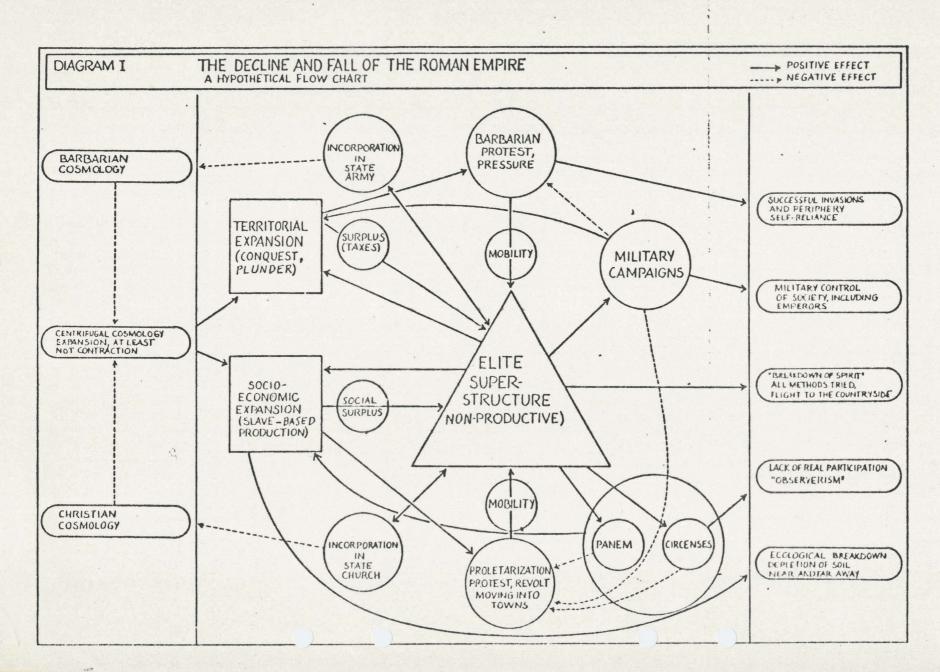
By "social development", then, is meant all social spaces: local, national, regional, global. What is said above applies, mutatis mutandis, too all levels. One might also talk about WORLD DEVELOPMENT as the environment compatible with social development, "social" then referring to the "lower" levels.

- The normative model is given here as a way of spelling 3. ten aspects of human and social development, thereby also out coming closer to their definition (in the Indicators part of the GPID project this is carried further, towards operationalization, but that will not be presented here). The model raises the problem of how to conceive of such lists of desiderata, themselves the outcome of countless discussions with all kinds of people around the world. Are these detachable items from which we can pick any subset because they are independent of each other; can we only realize some at the expense of others so that trade-offs have to be comsidered; or do they come in clusters because they belong together in the same "family/scheme of things", meaning in an extreme formulation that it is either all or none? The former would be a highly atomistic, the latter a highly holistic position, the trade-off position admitting couplings between the items being somewhere in-between. Our own view is in the holistic direction, but a soft version: rather than all or none it is a question of many or few, and rather than full realization to move towards some realization is already quite a lot. The important point is to try to spell out visions of desirable societies and visions of desirable worlds that are relatively holistic, hanging together, and compatible with these normative goals presented above.
- 4. Thus, the GPID(L) world model will not stay within the narrow framework of the essentially econometrically oriented models best known today; focussing on production and nature, exploring what limitations depletion and pollution would place on economic growth. The more advanced models, more human and social oriented, would in addition take in a range of the material/somatic needs: survival (as life expectancy) and the wellbeing needs for nutrition, dwelling, education and health, including the distribution of their satisfaction. What is left out is rather much; for instance wars; nonmaterial needs; structure; culture; history; visions; action for realism such concerns should be central in a model, not peripheral.

- The point of departure for descriptive models, of real world processes, not of goal processes, would be a <u>standard Western</u> society, which we define as a society steered by a program, a <u>projet</u> embedded in its <u>social cosmology</u> (deep structure + deep ideology), roughly expressed as follows:
- [1] SPACE: Center-Periphery gradients, with the West in the Center
- (2) TIME: Ideas of Progress and Growth, with Crisis and Catharsis
- [3] EPISTEMOLOGY: Dichotomous; atomistic and deductive
- (4) PERSON-NATURE: Herrschaft over Nature, including animals
- (5) PERSON-PERSON: Vertical and individualistic; competitive
- (6) PERSON-TRANSPERSONAL: Religions/ideologies claiming universality and excluding other religions/ideologies

Structures and processes compatible with these basic assumptions, built into Western society and Western thought, would definitely be preferred to those at variance with them. But then it should also be kept in mind that the dominant cosmology is the cosmology of the dominant class, meaning that the dominant processes will be compatible with these six assumptions, and carried by dominant actors. There will also be counter-acting processes, carried by counter-acting actors -- and, of course, processes of either kind that will be carried by no particular actor at all. They are not willed, they simply are.

standard Western society can be seen as the history of exploitation, and also expansion. Exploitation is seen as squeezing something beyond its capacity of reproduction/renewal. What can be squeezed are nature and people. But a distinction can also be made between an internal and an external sector of the world - the external sector being treated ruthlessly, the internal sector being treated in a softer way. This leads to distinction between four types of exploitation: exploitation of the external sector (nature as well as people), exploitation of nature, exploitation of self, and exploitation of the internal proletariat; E, E, E, E and Ep. What for? In order to satisfy the demands of a materially non-productive, but expanding epoetites as under the Roman Empire and Western Imperies



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- The two models are quite similar as they are intended to depict phenomena held to be very similar. There is a limit to exploitation/expansion: it works as long as it works. Either there is nothing more to exploit because the basis has been destroyed, is relonger able to reproduce/renew itself (and the system moves on to another type of exploitation), or the protests/revolts of the exploited become too strong. The system becomes a victim of its own lack of restraint, its own unlimited appetites and enters decline because it tries to satisfy increasing appetites with limited resources. In the decline and fall phase, then, a number of processes set in, some of them to try to save the system, some of them actually accelerating the decline, some of them the signs, and pains, of the birth of a new social formation (these three categories are not mutually exclusive).
- Since we are now in the phase of decline and fall of 8. Western imperialism, and since standard Western society has become the model society, attempted imitated not only by Third world countries with market economies, but also by - in most essential characteristics - countries with centrally planned economies both in the Second and the Third worlds, more details are needed to explore this process. Thus, the elite, as already indicated in Diagram II above, is seen as the urban-based, "modernizing" and industrializing eliterooted in statism, capitalism and professionalism- of bureaucracy, corporation and intelligentsia (the BCI-complex) - supplemented by military and police, often headed by the party (the PMP-complex). This elite is expanding, and its appetites are directed towards a bourgeois way of life (BWL) of non-manual work, material comfort, privatism and security. The pressure on the economy now depends on three factors: the size of the elites, the scope of BWL (how expensive the version) and the domain of BWL(how many are included from the non-elites, the assumption being that all elites go in for BWL].

COSMOLOGY

THE WESTERN SOCIAL FORMATION: SOME KEY FACTORS

Native Protest Non-Western and revolt Cosmologies MILITARY Decolonization NIEO. TofTrade Capital State Bureaucracy-Corporation External Y BCI sector Intelligenteia Professions CENTRIFUGAL COSMOLOGY EXPANSION . Nature EXPLOITATION Self Expansion, at least no contraction Non-manual Material V/ comfort Internal BWL proletariat Security Privatism CWL Labor parties, Trade Unions. better Tof Work POLICE Alternative Proletariat Protest and C cosmologies revolt

STRUCTURE/PROCESS

positive effects

MALDEVELOPMENT SIGNS

Human maldevelopment
body- cardio-vascular;
cancer, accidents, chronic
mind - mental disorder,
suicide
spirit - anomie, apathy,
meaninglessness

Social maldevelopment
production - overproduction
capacity, unemployment,
reduced work, leisurism
distribution - inequality
in costs of maldevelopment
injustice by age and gender
institution too big and too
sectorial, loss of faith

- growth of formal sector
- decline of informal sector of local level and family young people isolated old people isolated

structure -

- global exploitation
- domestic exploitation
- dependence on trade
- dependence on BCI complex culture overacceptance of bourgeois culture, alienation from folk/indigenous consture reduction of ecosystem maturity; depletion and pollution

world maldevelopment
structure - other countries
as external sectors, aggres
sive marketing, trade wars
survival - wars and threats
of war, against competitos
and to generate demand

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- 9. The maldevelopment signs are divided into human maldevelopment and social maldevelopment, in accordance with the logic of the normative model above of development - only that the items of production, nature and culture have been singled out for special attention. They are well known in standard Western society and seem relatively resilient. The reason why they are listed in that partiular order in Diagram III is only that so much attention is paid to the economic crisis - here seen as an overproduction crisis relative to increasing capacity of other countries to supply their own markets, and relative to the strong competition the standard Western society now encounters from non-West sources - Japan (certainly never a Western country), the mini-Japans (South Korea, Taiwan, Hong Kong, Singapore] and other NICs. Much attention continues also to be focussed on nature and the destruction of the ecological balance - in the shallow version of exploring depletion and pollution rather than in the deeper version of looking into the conditions for mature eco-systems, in terms of diversity and symbiosis. Surprisingly little attention is actually paid to social maldevelopment of the types mentioned, probably because they are seen as unsolvable and because injustice, inequality and inequity are not at all seen as bad. The revolt of younger people are often seen more as a sign of cultural malaise (which may be real enough) than as a social protest.
- 10. When it comes to human maldevelopment, however, there is no lack of attention. The diseases of the body and the mind are real enough. On the next page there is a more systematic presentation of the health consequences of this—formation; with its impressive record in decreasing infant mortality and fighting infectious diseases and natural hazrds, bringing about increased life expectancy and a growing population, and its equally impressive, negatively, record in producing a second, third (and in the future possibly even fourth) cluster or generation of diseases or sources of mortality. And health, in the broad WHO sense, actually touches all needs classes.

DIAGRAM IV

GENERAL CONSEQUENCES OF STRUCTURE/PROCESS

HEALTH CONSEQUENCES IN A COUNTRY LIKE NORWAY

Formal Health Sector growth General hygiene, nutrition Inoculation, etc.

Other forms of preventive medicine

Primary, secondary, tertiary care

Non-manual work, with gradual abolition of heavy, dirty, dangerous work

Material comfort, counteracting climatic fluctuations of nature; also leading to lack of exercise, cars

Privatism, withdrawal into family and peer groups; observerism

Security, leading to rising entitlements, and to clientelism

Circus Way of Life

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Bourgeois

Way of Life

Alcohol, tranquil izers, drugs Chemical, Tobacco, sugar, coffee, salt Chemically treated food; panem, natural fibres etc. destroyed Circenses, TV, spectatorism

> Exploitation of Nature, ecological belance down, depletion, pollution up nature as health resource down

Exploitation of Self, ever higher productivity leading to alienation, stress-

Exploitation of Inner proletariat, first heavy, dirty, dangerous jobs; then non-manual, push-button, boring

Exploitation of Outer proletariat, first economic exploitation; then export of heavy, dirty, dangerous jobs and poll.

Informal Sector Decline

decline

crisis

Local self-reliance break-down Family cohesion break-down Young people lonely; school ghettos Old people lonely; old age ghettos

Self-care down Informal Mutual care down Health Other-care down Sector

Positive folk medicine down

Unemployment Produc-Leisurism tion

Aggressive marketing in time and space War, to generate more demand

First cluster:

-infant mortality down

-infectious

- diseases down -nature-generated

accidents down --longevity increase

-population increase

Second cluster:

-cardio-vascular diseases up -cancer up -society-generated accidents up -longevity stable . -population stable

Third cluster:

-chronic diseases up -iatrogenic diseases. hospitalitis up -mental disorders up -suicide up -population dec: _se -longevity decrease [?]

Fourth cluster:

-genocidal war -destruction of FHS -destruction of Nature There will, of course, be a flow of action to arrest these types of maldevelopment from evolving further. If SWS is "blue" because of the predominance given to <u>capital</u>, its accumulation and its <u>rentabilité</u>, then there will be efforts within blue (or"pink" society) to engage in ameliorative policies - such as the ones listed on the next page; all of them within SWS. But there will also be political pressure for other options that no longer can be referred to as SWS:

Red Western Society - more rooted in work than capital, with a strong predominance or the state over capital, or bureaucracy over corporations, in economic life - and higher priorities to the needs of the working classes;

Green Western Society - more rooted in nature as the key production factor and with a strong predominance given to the local level over state and capital in economic life - also with high priority given to the basic needs, of everybody;

Brown Western Society - more rooted in absolute power than in capital, work, or nature, getting its political support where it can be found, from blue, red or green forces.

Of these three it is quite clear that only the green is a qualitatively different society - as will be spelt out below. The reason why is that it alone tries to handle all four forms of exploitation, to arrive at something close to an exploitation-free society; through cooperative enterprises of human size, coexistence with the Third world, a deep approach to problems of ecological balance, and a less stressful society by decreasing, instead of increasing the level of productivity.

12. Red Western society goes in for higher productivity,

'release of the productive forces" through the "scientific-technical

revolution", control over nature, "comparative advantages" through trade.

In its non-authoritarian form wants to reduce the pressure on the internal proletariat - in its authoritarian form this pressure is as high as ever. It is difficult to see that this represents an alternative to SWS and not a composition through state power. And this applies a fortiori to Brown Western Society where power has become the supreme principle - and for that reason will be of thort duration.

A SURVEY OF AMELIORATIVE POLICIES

MALDEVELOPMENT SIGNS

unemployment

leisurism

aggressive marketing

wars and threats of wars

reduction of eco-maturity

depletion

pollution

alienation from folk culture

injustice by age and gender

inequality by age and gender

dependence on trade

dependence on BCI-complex

growth of formal sector

decline of informal sector - local level disintegration

- family disintegration
- young people isolated
- no faith in institutions cardio-vescular diseases

cancer

chronic diseases

mental disorder

suicide

anomie, meaninglessness

AMELIORATIVE POLICIES

emergency work, just to give an appearance of employment stepping up entertainment, more channels and programs only towards rich Third world countries (OPEC, NIC), not the poor talks about arms controlmeasures: such as SALT I, SALT II, etc. environmental management recycling industries cleaning up industries money for folk music festivals doing something about gender, women doing something about gender, women working for national level selfreliance; forgetting local level decentralization to reduce dependence on national level; creating higher level of dependence locally decentralize, moving out of capital, formal sector all over the country by "cloning" at the local level reproduction of national level BCI substitute friends, cohabitation leisure time clubs, activities leisure time clubs, activities more public access to documents more exercise, healthy diet, reduce smoking etc. less stress no smoking, less stress, less additives safety at work and in traffic in addition to above; periodic screening tranquilizers, ataraxica; more mental therapists, social workers care with prescriptions, fences to prevent people from jumping etc. new religions, new social movements promissing solutions for everything

Some of these measures can bring long term improvements, others are only cosmetic and may make the situation worse in the long run by delaying more fundamental changes that are necessary, or by resulting in unintended side effects.

A SURVEY OF GREEN POLICIES

MAINSTREAM	CHARACTERISTICS
4 5 1 1	

- 1. Exploitation of internal proletariat
- 2. Exploitation of external sector
- Exploitation of 3. nature
- 4. Exploitation of self
- 1. Dependency on foreign trade
- Dependency on .formal sector, BCI-complex
- destructive defense technology
- 4. Alignment with superpowers
- Bureaucracy, state (plan) strong and centralized
- Corporation, capital (market) strong and centralized
- Intelligentsia, research strong and centralized
- MAMU factor; BCI peopled by middle-aged males with university education (and dominant race/ethnic group)
- Non-menual work, eliminating heavy, dirty, dangerous work
- Material comfort, dampening 2. fluctuations of nature
- 3. Privatism, withdrawal into family and peer groups
- 4. Security, the probability that this will last
- Alcohol, tranquilizers, drugs

2. Tobacco, sugar, salt, tea/coffee

- Chemically treated food, panem 3. natural fibers removed
- Circenses, TV, sport, spectatorism

TO THE

GREEN POLICIES, MOVEMENTS

cooperative enterprises, movements labor buyer/seller difference abol ished, customers directly involved co-existence with the Third world;

only equitable exchange relations ecological balance Person-Nature; building diversity, symbiosis; complete or partial vegetarianism

more labor- and creativity-intensiv decreasing productivity some field alternative technologies

self-reliance; self-sufficiency in food, health, energy and defense

local self-reliance, decreasing urbanization, intermediate technolog

Offensive defense policies, way defensive defense policies, with less destructive technology, also non-military, nonviolent defense

> non-alignment, even neutralism; decoupling from superpowers

recentralization of local level, building federations of local unit

building informal, green economy; - production for self-consumption - production for non-monet. excharg - production for local cycles

high level non-formal education, building own forms of understanding

feminist movements, justice/equality and for new culture and structure; movements of the young and the old

keeping the gains when healthy, mixing manual and non-manual

keeping the gains when healthy, living closer to nature

communal life in bigger units, collective production/consumption

keeping security when healthy, making life style less predictable

moderation, experiments with nonaddictive, life-enhancing things

moderation, enhancing the body's capacity for joy, eg through sex

bio-organic cultivation, health food, balanced food, moderation

generating own entertainment, moderate exercise, particularly as manual work, walking, hisveling

C 0 B N A 0 S I I

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M I B I T S A I

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S T R U B C A S T U I R

A

Bourgeois Way of Life

Chemical Circus Way of Life

- 13. The green policies constitute an alternative to the extent they can be seen as rooted in a very different social cosmology from that of SWS. It may be expressed as follows:
- (-1) SPACE: Instead of placing the West as a center of control for the world, seeing the West as a center of concern, for We
- (-2) TIME: Instead of believing that cathersis, a perfect Endzuster is around the corner, seeing the eternal, dynamic flow
- (-3) EPISTEMOLOGY: Seeing things more holistically and dialecticall
- [-4] PERSON-NATURE: Experiencing deep union with Nature, with animal
- [-5] PERSON-PERSON: Experiencing deep union with other people, allow
- (-6) PERSON-TRANSPERSONAL: Give up universality, relating with curiosity to the truths of others

From these assumptions the type of concrete policies indicated on the preceding page would follow. They are interesting in this context also because they constitute the political package that, if implemented, may come closest to realizing the goals in the normative model above.

14. However, there is no reason to be excessively optimistic about this, and not only because the blue, red and brown forces are much stronger in SWS than the green forces - even if the latter are gaining momentum at present. The West has been through this once before in historical times: the decline and fall of the Rogan Empire was followed by the Medieval System (first in its manorial, later in its feudal versions) - and this was not a system devoid of exploitation. It was based on exploitation of the internal proletariat (the serfs) and of nature - but there was very little exploitation of any external sector as it was rather localized, and the "bourgeoisie" - the materially non-productive nobility (the monastic system was more self-supporting] - was not exposing itself to the stresses of excessive productivity, but they were living under the pressure to produce "honor". The system eventually declined and fell because of the two patterns of exploitation - the Black Plague being a coup de grace - as indicated in the following chart.

A SURVEY OF AMELIORATIVE POLICIES

AGAINST MALDEVELOPMENT SIGNS

cardio-vascular diseases

cancer

chronic diseases, accidents

mental disorder

suicide

anomie, meaninglessness

overproduction capacity
unemployment
reduced working hours, leisurism

inequality

injustice by age and gender loss of faith in institutions local level disintegration

family disintegration
young people isolated, "gangs"
old people isolated, "homes"
global exploitation
domestic exploitation
dependence on trade

dependence on BCI complex alienation from folk culture reduction of eco-maturity

depletion
pollution
aggressive marketing

wars and threats of war

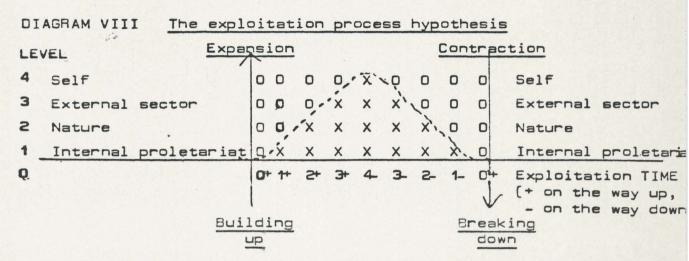
reduce smoking etc., less stress more exercise, healthy diet no smoking, less stress more therapy, more tertiary care work safety, safety belts in cars tranquilizers, ataraxica; more mental therapists, social workers more care with prescriptions, fences preventing people jumping # new religions, new social movements promissing solutions using it for military build-up reducing work hours to employ more stepping up entertainment; more channels and programs, sport progressive taxation regressive taxation, "trickle-down" opening for middle-aged women more public access to documents "decentralization" by making local level a mini-state, with BCIcomple living with friends, cohabitation leisure time clubs leisure time clubs see it as "terms of trade" only see it as "terms of work" only working for national level selfreliance; forgetting local level dependence on local BCI complex money for festivals, museums efforts to counterdepletion and pollution; environment management recycling industries cleaning-up industries only towards rich Third world countries (OPEC, NIC); not poor

"arms control" and "disarmament"

conferences

15. Thus, the history of Western society is the history of exploitation. Four types of exploitation have been defined above. If we disregard gradations and just reason in terms of (absent, prese or [0,1] that could give us an exploitation index from 0 to 4, ranking the 24=16 patterns of exploitation in five classes according to level. However, it may also be that we could enter this set of patterns with a simplifying hypothesis. There may be something like a natural history to exploitation, starting with the exploitation of what is closest at hand, the internal proletariat (sometimes abducted from the external sector); moving on to squeezing nature; then, when that is exhausted, getting an external sector to exploit; and when that does not work any longer for either of the reasons given, moving on to exploit oneself, eg through ever higher demands for productivity. But this has consequences, like it had at the end of the Roman Empire: the costs start piling up, also for the elites, for "self So we would assume that to be the first type of exploitation to be given up, followed by the exploitation of the external sector as the resolve weakens (and the external sector becomes stronger). What remains, then, would be the exploitation of nature and the internal proletariat, and that is as far as the medieval system came, on the way down from the exploitation peaks of the Roman Empire (we are obviously all the time talking of the bas empire, the Western Roman Empire). In principle, it could proceed further, coming to terms, so to speak, with nature and also with the internal proletariat - and there were tendencies in this direction also during the Middle Ages (which, in terms of level of exploitation, were much less dark than the periods preceding it and following it - but history has been written by the predecessors and the successors rather than by medieval thinkers concerned with more eternal things). The green option today has ambitions in the direction of getting to the bottom of the exploitation complex - the question is, of course, whether they will have more success than the medieval system.

16. There are limits to exploitation, and the hypothesis is that exploitation patterns build up and are broken down, according to a process with certain regularities:

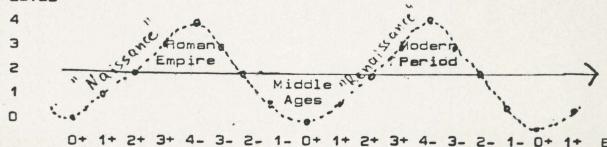


The process has a starting point at a social formation with no exploitation at all; then one type of exploitation after the other is added till the full configuration is reached and there is nothing more to add (the moon proving to be non-exploitable, so far). From then on it breaks down. What is suggested here is that this process may now be starting, and precisely with the elites feeling that enough is enough. They would experiment, changing to alternative ways of life, and soon give up efforts to exploit an external sector that through NIEO and other policies starts becoming too strong — with the fight for independence from colonialism as a beginning.

This is not a single-shot process of exploitation; it can be repeated. If repeated it would give us a serpentine through history (the real curve probably never went all the way to zero):

DIAGRAM IX The exploitation process hypothesis repeated

LEVEL



tation

TIME

In other words, there are problems at either end - there is overexploitation (for which reason 4 is 4-), but there is also underexploitation (for which reason 0 is seen as 0+) if the dominant cosmology is an expansionist/exploitative one. The curve should be compared with the many types of curves produced by various types of future studies during the last two or theee decades, from the highly optimistic exponetial curve of the 1950s (reflecting faith in growth unlimited) via the logistic curve prevalent in the 1960s (reflecting the idea of saturation, but then many logistic curves could combine into an exponetial "envelope" to serve the function of psychological transition) to the bell-shaped curve of the 1970s (reflecting the idea of a possible overshoot, of going so far as to produce ruptures). All three can be seen as glimpses of the serpentine curtailed by a much too limited time perspective, and little sense of history, as opposed to a thinking and planning horizon of a couple of decades only.

18. A serpentine can, like any wave phenomenon, be discussed in terms of amplitude and wave length; to this we shall also add the level around which the wave is -oscillating. In Diagram IX three periods in Western history are indicated, but not necessarily with the more precise definition given to level of exploitation in Diagram VIII. The three periods are, of course, overlapping - but the basic point is that the Middle Ages grew out of the decline of the Roman Empire with a highly expansionist exploitation system breaking down; the Modern Period grew out of the Middle Ages with an even more expansionist exploitation system building up; Something New will then grow out of this as the system breaks down - which is what is happening now. Although difficult to operationalize the exploitation/expansion amplitude is considerable - as between the bas empire in its splendor and the manorial aspect of medievalism, say, five hundred years later. The wave length, seen as the time distance between corresponding historical points varies (maybe one thousand

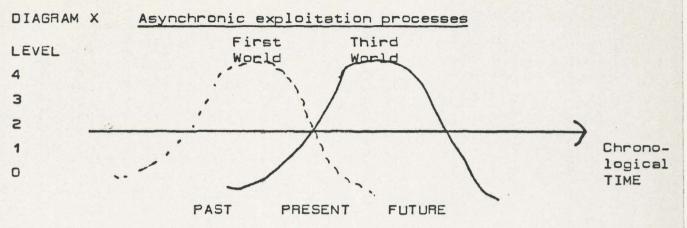
years for each of the Roman Empire and the Medieval System; the "Modern Period" cannot possibly last that long) - but this is as seen in chronological time. In the type of social time defined here as "exploitation time" the wave-length is 8. The average level around which the serpentine is oscillating is no doubt high - something that should be seen in comparison with other systems.

19. On the way up the exploitation hill the system would build large-scale enterprises (in the modern period known as industrialism, corporations]; there would be increasing urbanization, growing cities and towns, dwindling countryside; and there would be "modernization" meaning centralization and the crystallization of big hierarchical structures (alpha structures) in the form of statism, capitalism and professionalism. No doubt this is the period of"economic growth", particularly when the infrastructure has really been consolidated. Exploitation growth and economic growth being two sides of the same coin it belongs to the picture that the SWS presents itself only in terms of the economic growth side, keeping the face of the exploitation side down, invisible. The special type of professionals paid to perform this trick is called "economists"; unable/unwilling to include "at whose expense" in their formulas. 20. Correspondingly, on the way down the exploitation hill the opposite process takes place. There will be a return to agriculture with big industries dying, small ones emerging; there will be decreasing urbanization with contracting cities and people settling more in villages, in the countryside; there will be decentralization of both state and capital and a certain deprofessionalization. No doubt there will be much less economic growth, starting with zero rates, then negative economic growth - but by that time there will no longer be people calculating rates of economic growth, partly because it is too depressing, mainly because there will be other measures of how society is doing, both at the collective and individual levels. more reflecting the positive concomitants of reducing exploitation.

What about the demographic factor? One hypothesis 21. would be that the population growth follows the exploitation growth and that it has much to do with expansion vs contraction ethos, and not only with health and nutrition factors. . . Health is certainly a key factor not only because of its effects at the individual and family levels but because of its impact in instilling faith or scepticism in the societal project, in the future in general. For these reasons we wil, generally assume a high correlation between the growth rates for the economy and for the population, but with important leads and lags of short term duration.

22.

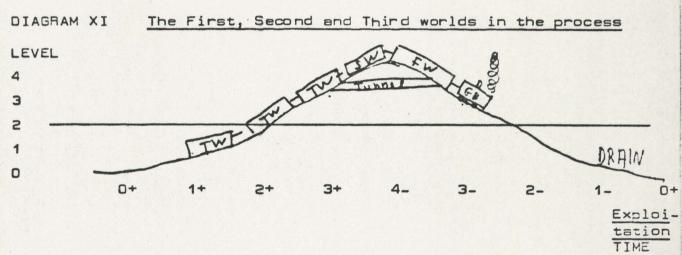
What about the war factor? One hypothesis would be that wars would be engaged in on the way up the exploitation hill to secure the basis for exploitation, and on the way down the exploitation hill in efforts to regain the position on the top. Both at the top and at the bottom we would expect low levels of aggressiveness; the societies would be status quo oriented - those at the top because they have nothing more to gain from exploitation, those at the bottom if they have an anti-exploitation ethos (like certain buddhist societies). But the latter may have to engage in defensive wars. Internal wars (revolts) will probably follow the same curve. So much for history and diachrony, now geograpy and 23. synchrony. If the West is the model for most of the world -almost all of it now that the People's Republic of China seems to be in a phase of that kind too - other countries will in principle be on the same serpentine curve, but, of course, not necessarily synchronic with Western societies. As imitators they will be lagging behind, and there will also be important asynchronies inside the countries (as there also are inside the Western countries - and the more asynchrony there is, the betterwill the country be prepared to enter another phase on the curve). Put differently; in chronological time they are the same, in exploitation time they differ, as given in:



Thus, First world exploitation level may still be higher, but as it both is giving up exploitation of self and exploitation of an external sector certain Third world countries [miri-Japans, other NICs] will move for full into these two types of exploitation. Japan herself is seen on a curve somewhere between the two, meaning that she is also heading for her decline in a reasonably short time, the exploitation of self piling up and the exploitation of the external sector (military phase 1894-1845; economic phase afterwards - actually very much like the Western countries) is probably approaching some limitations by now. Concretely this means that we are entering a period with First world countries dangerous because they are on the way down and Third world countries dangerous because they are on the way up (an example being the US and Libya in the Gulf of Sidra August 1981). The obvious Big Question: Will they treat us the way we treated them The Second world, 'the socialist countries in Eastern Europe, are more seen as being status quo countries as they are at the top of their exploitation hill (somewhere between the two curves in Diagram X) - although still with some work to do in building a system of external sector exploitation and self-exploitation (alcohol consumption leading the way, it seems - and suicide of the Habsburg tradition in some countries].

24. The preceding paragraph can also be summarized by coming back to exploitation time again, seeing the three worlds of development as going up and down the same basic system of exploitation. Moreover, the three worlds can also be seen as being coupled

to each other like in a train, with the worlds as classes - the First world/class first, followed by the Second world/class busily trying to catch up with the First class, and the Third world/class hanging on as best it can. However, being more attached to the First than to the Second world, because of ties of [neo-]colonialism, and a general preference for first class over second class treatment, [people and countries] there is a special tunnel dug for the elites of the Third world so that they can go straight from the uphill struggle to the decline and fall - or from under-development to overdevelopment as it can also be expressed in a slightly different use of the curve in Diagram XI:



In front is the engine, the one to initiate full scale exploitational as opposed to 16th to 19th century Spain ignoring the importance of processing nature. Great Britain. Of course, it should be admitted that the cream of the British upper classes have always understood how to protect themselves against the stresses and strains of maldevelopment, taking the green option in advance. It is seen as a pilot country, heading the descent down to the dreaded Drain, which essentially means that there is less opening for exploitation (this points in the green direction) but also that more of a squeeze has to be used on the exploitation options that remain (which points in the brown direction). So the drain must be something like a brown desert with green oases!

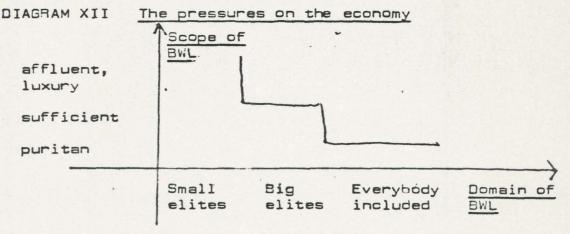
The other cars in the train follow as cars do when the coupling is strong enough; the passengers

riding first class becoming increasingly pessimist, those riding second class being somewhat uneasy, those riding third class being optimist, particularly those in the first cars as they have already come high and it is still going upwards, isn't it, with industrialization, urbanization and modernization all around.

25. Let us now return to the problems of amplitude, wavelength and level (18 above). On what does it all depend? We have indicated four factors above (see Diagram III):

- a centrifugal, expansionist cosmology
- four patterns of exploitation
- a materially non-productive elite (currently the BCI and PMP)
- a materially comfortable life (currently the BWL, plus CWL)

They all support each other, push the society up the exploitation hill and into a solid overshoot - not knowing where to stop, even not knowing where to stop from the point of view of self-interest; among other reasons because the elites are far from enlightened enough. But the pressure on the economy can be analyzed in terms of scope and domain of the bourgeois way of life (8 above):



The pressure comes when the elites become too big and all want a life in affluence and luxury, and/or when everybody is to be included in standard bourgeois ways of life which is not to be confused with satisfaction of basic needs (as can be seen from Diagrams III and IV), with non-manual work, material comfort, and so on. And this means that one way of keeping amplitudes low and wave lengths long is to keep the elites small, with constant appetites, and the people

at a puritan level (or below, as is usually done). This may be a rea. son why the haut empire lasted for such a long time - and also important in understanding some of the phenomena of the Chinese and Egyptian dynasties. In more egalitarian societies the style of the leadership will not be permitted to deviate that much from the population as a whole, and in that case everybody can be included if only at a relatively frugal, puritan level measured by today's standards, but possibly far better in terms of basic human needs. The key factors, hence, are the level of distribution and the rate of growth of domain and scope of a higher level of consumption - how many more are entitled to how much more? Is there a growing elite, ultimately most of the population, with growing appetites? With no restraint the only way out is to increase the level of exploitation, and sooner or later that will bring down the system - for instance in the ways indicated in Diagrams I and II. And these things are governed by the cosmology, with expansionist Occidental cosmology both favoring inequality and a high rate of growth. As long as this cosmology persists, as long as there is no "agonizing reappraisal", the pressure on the economy will remain, whether it takes the form of very luxury-oriented elites (like the US) or a high material standard of living for the entire population (like the more social democratic of the Western European countries) or an effort to both [like the socialist countries of Eastern Europe). Conclusion: a change of cosmology will come about, by deed or by necessity. Otherwise, plus ça change, plus c'est la même chose, same basic program.

This type of analysis differs from standard liberal thinking in many ways. For one thing, liberal thinking and its economic expression, capitalism, is very weak on exploitation and for that reason does not easily see limits to growth. This is very clearly expressed in the rostowian metaphor of "take-off". The curve flown by a plane after take-off is like the exponential curve, but after that comes a leveling-off, a logistic aspect - and sooner or later the plane comes down again, for landing, returning to stand-

still - an aspect of the metaphor not included. Of course, there are alternatives to a soft landing:

- to remain up there, and that requires a supply of energy not generated by the system itself in other words expansionist exploitation
- to get into outer space with no force of gravity to counteract, but that leads to other problems and one is no longer of this world
- a crash landing because one runs out of energy supply

The Western economies are trying all three, including the option of carving out an existence in outer space. A much better policy seems to be to recognize that the flight is no longer viable and go in for a soft landing instead.

27. This type of analysisalso differs from standard marxist thinking in many ways. For one thing, marxist thinking, and its economic expression, socialism, sees itself as being against exploitation, and for that reason as being at a higher level than capitalism. being capable of its economic growth, but without exploitation. What we have seen so far would perhaps rather lead to the conclusion that "socialism" is a special terminology for 'state capitalism', a relatively inefficient form of capitalism for late-comers, with the tremendous advantage that it may satisfy basic material needs for those most in need if the elites are thus inclined. Eastern Europe was a late-comer, and the present period of "socialism" may be seen as a latter-day version of the Early Modern period in Western Europe, with its more or less enlightened absolute rulers and heavy control of economic life by the state (the mon-arch) - a period preparing for the more mature capitalism to follow. In other words, "socialism" in the sense of state capitalism may be another version of capitalism with slightly different patterns of exploitation but more or less amounting to the same, or a preparation for capitalism. True communism a rarum avis, would be quite different: this is where Marx seemed to let Fourier and St Simon into the picture and the image seems very similar to what is described above [13, and Diagram VI] as green

nolitics.

28. This model is relatively deterministic as soon as the elites have made the basic choice, that of following the Western model. In a sense this is not even a choice: Western cosmology has been imparted in people all over the world through the very concrete structures of colonialism and neo-colonialism, and is carried every second of the day through Western: technology, languages and religion - particularly Christian eschatology with its focus on individual salvation, in this life. The United Nations and almost all intergovernmental and nongovernmental organizations convey the same message: what seemed so successful for the countries following in the wake of Great Britain should now be repeated all over the world. The"development decades" (I, II, III - the present one) are variations over this theme. For the socialist countries the notion of "catching up and surpass" already legitimized, for a long time, any action according to the Western cosmology, in all essentials. And this is the basic point: as long as that cosmology persists the elites will continue enacting it more often than not without questioning the assumptions as it is seen as the normal/natural way for elites to act, and the same for the people because of rising expectations and entitlements. The power the bourgeois way of life, particularly when it comes with trappings and trimmings, has over peoples It may be the most successful ideology of all times, of the world is tremendous, and if some exploitation and human and social maldevelopment are needed to get it they are willing to pay the price. Until that price becomes too heavy, that is - as in many of the Western societies today. . But the evidence from these societies will be denied by the societies on the way "up" and seen as peculiarities of those societies rather than of the system. Learn ing, it seems, has to be from one's own mistakes rather than from tempting the mistakes of others. And then there is also the possibility of getting on top of the global, regional or national exploitation pyramid and enjoy the good life now. If history teaches that this can only be for some groups, in some countries, and only for a limited

period, it becomes even more urgent to fight for that position now. Hence the Western-oriented greediness of Third world elites today.

29. This model, then, introduces two determining factors usually not considered:

Culture: in the sense of cosmology, the broad, unwritten program of a civilization, almost never made explicit or challenged

History: in the sense of patterned processes, that it is important to have an answer to the question où en sommes-nous?

The second partly follows from the first: the program sets the society on a certain path, with more or less success. And if that program is not challenged, elites and peoples as well are the prisoners of their own lack of consciousness. Enacting the program leads to certain structures that are very, very solid. Although they may satisfy material needs for some (and greed, too) they push others into misery, create nonmaterial misery (alienation, repression) for most, lead to wars, and are highly different from the vision most people actually would have of what development is about, not to mention the normative model in (2) above.

- 30. Given this, the most consistent policy advice for standard Western society on its way down would be the green policies of Diagram V, actually not excluding most of the ameliorative policies of Diagram V. Historically it is the right phase, it is now il giorno dopo il di di festa (Leonardi). History has rhythms, and and freedom is to some extent insight in historical necessity. Better a soft landing than a forced, even apocalyptic one, based on unrealistic/undesirable efforts to maintain the system as it is. But it would constitute an admission that standard Western society does not constitute a model of development,
- because the ultimate goal, the bourgeois way of life for all, is undesirable in its consequences, and
- because the processes, based on exploitation and BCI/PMP complexes, are unacceptable to those who have to pay the costs of "development"

in them, and for the time being those are the counter-elites rather is then the elites. When/if it spreads to elites and people - that

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The present paper gives a brief description of some of the basic assumptions in a world model coming out of the Goals, Processes and Indicators of Development Project, the GPID Project. Where the present author is concerned that project came out of research done at the Chair in Conflict and Peace Research at the University of Oslo inthe period 1972-1977, in the Trends in Western Civilization Program and the World Indicators Program. Continuation of that research was then for a period supported by the United Nations University, Tokyo. I am indebted to the many colleagues in the GPID Project for good discussions, to the Institut Universitaire d'Etudes du Développment, Genève, and to Dietrich Fischer in particular.

For some publications by the present author from the GPID Project, all in one way or the other feeding into the GPID, model, see:

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