### BOUNDARIES IN SOCIOLOGICAL THEORY:

### A REASSESSMENT

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### 1. Introduction

"It is amazing how little of their intellectual power and clarity has been deployed by the classics on the study and elaboration of the concept of boundary", remarked N.Luhmann in 1971; (1) and a similar complaint had been uttered two generation earlier by the belgian sociologist G.De Greef (2) with special reference to his classics, Comte and Spencer.

We have been scanning the literature in the social sciences for more than a decade and must admit that while the boundary and related concepts (frontier, periphery, etc.) have attracted a certain attention from geographers, historians, planners, anthropologists, etc., they have still failed to become a focus for sociological discussion. The boundary has not yet been adequately "problematized" and "thematized" in this discipline. The word appears seldom, if at all, in standard textbooks, treatises and reference works; often, as in the "Encyclopedia of the social sciences", only the most "banal" (in Perroux's meaning) of boundaries, those between political systems (nation-states) are discussed; the meager sociological research literature also

a special predilection for "minority" refers usually to national-geographical borders, with and ethnic

delimit well-defined, self contained a more adequate image of society "requires us to boundary-assumptions, and a clearer awareness that mistaken, there is now a growing impatience with its quarters Durkheim-Malinowsky-Parsons tradition, and combinstructural-functional persuasion, as expressed by the relative closure of societal boundaries that accounts that it of the unsatisfactory state of sociology. We submit confusion on these issues is one of the main causes fundamental terms contend that the boundary and related concepts are Granovetter puts it (4). That paradigm has been criticised from a great many isolate, primitive tribe so dear to anthropologists. We are persuaded that this is not enough. archetypal image of the isolate nation-state weaknesses of "social-system" theory of the is some cavalier assumption about the the and for different reasons. If we are not Plato-Fichte tradition) idea that boundaries, in the social sciences, and with that of units" at any time,

### Epistemological Significance of the Boundary

change in communication analog organism and outside it, which is a change from been imputed by G. Bateson and others to the abrupt cations (6). world; to tell differences; to see patterns; to discrimfundamental difference between self and non-self, the Man needs to find and impose order in in binary oppositions (5). This character has Man seems to possess a genetic disposition to or continuous to digital or step-wise communifigures and Infant man meets, to begin with, objects; to make structures inside man's clear distinc-

> stressed by transactional psychology and ecology connected be infinite symbiotic relationships, as that he does not, in fact, end at his skin (8); that years inside and the outside (7); he must spend his first he depends from the outside world, with which he is but then he must spend many years to learn is a reality out there which is independent of in learning the "he ends at his skin", that

the beginning of every order and every thing". attitude aptly when he wrote that "the boundary is own patterns on reality, to create new distinctions defined as a creature that "grasps, parts, devours" new differences, new finely between objects; but also willing to impose his ences (9) and old So emerges rational man, able to recognize differin reality, and to discriminate ever more King Solomon sublimated this basic boundaries. Man has been

ces for his own ends; man the sorter, man - Maxnating among phenomena and exploiting the differennature, the rationalist, the dominator, the systembuilder and boundary-maker; ever busy in discrimiboundaries between groups; it means formalization. tutional specialization, division of labour, all this control boundaries. Social differentiation, instienvironment; and in so doing he must create and reach his goals and impose his order on institutions, organizations, systems and machinery to endlessy; man is forever busy in setting "our interests" against "them". This process ness, of national borders to distinguish "our people" banks to set the water off the land, the builder of pelagos of negentropy; man the builder of dams and well's-demon, man the builder of islands and archi-Irom On the one hand, then, we have man the ruler of the "aliens", of corporate boundaries to pursue to mark the civilized settlement from wildermultiplication of differences and hence of

codification, organization of the criteria of membership, of crossing and of imputation. Written law is largely dedicated to this task; it is an extended exercise in definition and distinction of social phenomena. Public administration is the art and science of defining the limits of territorial and functional areas of competence of the several centres of power. Logic is built on binary distinctions and clear definitions (10).

allegedly also the dominant emisphere in artists, analytical left hemisphere; and the former is hemisphere functions, in contrast to the more grasp the wholes instead of breaking them down into leaps; continuity instead of contrast, division and quantum discontinuities there is, purportedly, a deeper unity supports these tendencies; underlying the superficial (11). But also a deeper understanding of nature primitives, sensitive rather than intellectual people parts. Such, it seems, is the way our right cerebral drive, to find in nature harmony, unity and in this sense; and we all harbour the opposite in the western sense. But not every man is civilized the hallmarks of progress and civilization, at least tier area to a sharp boundary line, is then one of and has often immediate relevance in social and cultural systems, and not only in "primitive" ones biology of man; it is expressed for the discovery of a unitary set of world-princifooled". The yearning for a universal commonality, its boundaries on reality, but the mind shall not be Blaise Pascal who remarked, "law might well trace (Nicolaus of Cusa's "coincidentia oppositorum", civilized political life. ples, has obvious roots in the psychology and Leibnitz's "natura non facit saltus"); and it was Boundary-making, the passage from a hazy fronto stress similarity instead of diversity, to man there emerges the longing for the Again and again in the history of in great many

abolition of differences, that is boundaries, between groups; the advocates of a classless society concentrate their hatred on the discriminations between socio-economic groups; cosmopolitans decry boundaries between "national" groups; the ideologists of grass-roots participation denounce the boundaries between organizations and spheres of competence; ecologists criticize the arbitrary discrimination between man and nature, system and environment and stress that the only real, living unit in nature is the ecosystem (12).

the line" insists A. Wilden (14). And in fact we connectedness undermines experimental and empirical can manipulate reality. Instrumental rationality is see that a vein of mysticism is emerging in those science (13). "Epistemology is about where you draw Simon emphasized. The assumption of universal interabolishes those handles and cracks by which man sharply-bounded concepts; and the drive for univerdistinctions, the emergence of clear ideas simpler units, the identification of unambiguous reality into manageable parts, the than the opposite needs for the breaking synthesis, of holism, are no less real and important is no less respectable than the left one, and the Pask, G. Bateson. But certainly the right hemisphere the open-systems approach, as, e.g. E. writers that follow more radically the implications of always bounded rationality, as Nobel prize H.A. debunking of boundaries as man-made artifacts fate of similar holistic doctrines in the past; the and in practical impotence. This has been a common confused, soft-headed, un-communicable mysticism; way of living and thinking. It can easily lapse in differences, the analysis of confused monism, of unity, of harmony, of commonality, of psychological needs expressed by the champions of All this casts a clear and present danger to our wholes into sorting Morin, G. down of

sal communion and identity is no less worthy, at least in human terms, than the piecemeal, incremental construction of ever-expanding but necessarily bounded institutions, organizations and systems. Boundary-making is a necessary correlate of thought and communication no less than of technical control of reality; the very distinction, posited above, between the two attitudes, and the act of elaborating on it and writing this paper is evidence that without sorting and parting no rational argument is possible.

study from "disturbing influences" of the "outside"; care is made in isolating the phenomenon under ments of reality. In the experimental mode, every of the isolated, closed system; and the search for the basic tool of Western science has been the model based on imposing artificial boundaries upon segabsolute boundaries. The growth of science owes much the atom, the individuum - is essentially a search the fundamental, simple, irreducible unit of reality multiplication of artificially closed analytical sysfor the ultimately isolated and closed system, for the tems. "seamless web" of reality into fields and sectors, the Just as logic is based on distinctions, science is specialization, i.e. the cutting up of

attempts to grasp the continuous under the discrete social science is historically also intimately related the "caeteris paribus" clause, the closed system. But to mysticism and philosophy, and therefore shows a elements, the mysterious determining totality beyond under the flash of quanta, the total patterns behind the analog under the digital, the flow of waves Social science, strongly attracted by the classisingle links of the causality network. "natural" sciences (essentially physics, mechanand chemistry), borrowed the analytical mode streak of signs, the holistic thinking, and structure behind recurrent

Such tendencies manifest themselves in a large variety of sociological approaches: dialectical historicism, "interpretative sociology", structuralism, general systems theory and various brands of enlarged cybernetic, communicational, informational and ecological approaches. They underlie gestalt and field theories in psychology as well as the more ambitious synthetic theories of universal evolution; finally, they show out most clearly in the "new epistemologies" and the "fourth logic" (15).

## 3. Platonic Politics and Newtonian Mechanics: the Closed-System Model of T.Parsons

discard complexity. The social sciences do the same with by dynamic equilibria of forces desk - in a nebula of minute particles, held together observable objects - the proverbial philosopher's illusions of immediate reality, and dissolved advance when they freed themselves from concept is, as we have seen, the small primitive structural-functional theory. One source of this or "the societal system" as used particularly in with one of the basic concepts of sociology, "society" sociologist with some social objects. This is the case because of their supposedly younger age or because reconstructing reality with the help of analytical viors, communications, symbols, values, images; and social "objects", decomposing them into roles, behasuccess of the nation-state up to very recent times isolated tribe; the second is the Platonic doctrine of the theorists of the modern nation-state (16). The The physical sciences performed a revolutionary autonomous, isolated polis, as some naive conceptions But the social sciences find it difficult to peculiar psychological involvement of the of reality reinterpreted by of the highest

practical purposes" the closest incarnation of a civilization", but end up reiterating that, "for all edge the existence of wider systems, like "western the state. Textbooks of this school usually acknowlfashioned, implicitily or overtly, after the idea of gandist for France's cause. But it was T. Parsons nation-state, and Durkheim became an active propathe first world war, which "nationalized" not only integration; but can be interpreted as a legacy of society and envisioned a steady process of world fathers of sociology, who usually spoke of human "society" is the middle-to-large-sized nation-state. idea of society, or of societal system, has been naturality and finality. The structural-functional has been such as to lend it an aura of inevitability, than from Cannonian biology. Machstaat", his passion for the power of the Marianne called his "Leidenschaft für nationale the socialist masses, but also the sociological elites; This was certainly not the position of the founding pattern borrowed from Newtonian mechanics even more who weaved the various threads into a closed-system Weber surrendered completely to what his wife

against criticisms of the alledged "closure" of his counterparts in reality but the illumination of the model of social system, mounted by such authors as interests were not the identification of his model was only analytical, that his research Dahrendorf, Gouldner and Buckley. He insisted that subsystems were a basic feature of the model, etc. sociology became the science of national societies state, the seemingly hardest of social facts; and culture impregnated with the idea of the nation closed-system model was perfectly serviceable to a basic "cybernetic" mechanisms, that "boundary inter-Parsons has struggled long and convincingly But the damage had been done; the between systems as well as between precise

The assumption of closure numbed the interest for the system-environment relations, which is just as objectionable when the environment is the rest of mankind as when it is nature (Parsons' classic model was wrongly interpreted as closed to both) (18).

Furthermore the great container-society - ceased to be an object of interest; it was the domestic "social problems" it contained to get the attention of sociologists (19), not its genesis, structure and evolution - or other conceivable ways of keeping things together.

In sum, while in Parsons and in the Parsonian school we can find some lucid discussions of boundary processes (relationships between normative-functional and territorial boundaries, boundary-maintaining mechanisms, etc.) (20), the net effect of this approach was to draw attention away from the relationships of social systems with other social structures, to underplay the importance of larger units of which national societies are only subsystems, to underrate the problems of formation and (possible) dissolution of national societies, and to exaggerate the assumptions on internal integration and external autonomy.

The criticism of these feature has stimulated inquiries into the processes by which the modern nation state has really come into being (21).

### 4. Boundaries in Simple Social Systems, Structures and Networks: from Simmel to Goffman and Blau

The Parsonian grand theory never represented, however, more than one of the sociological approaches. Of special interest to us here are the microsociological approaches of G. Simmel, the interactions, small-group analysts, exchange-theorists, and the contemporary "phenomenological" sociologists. G. Sim-

architectonic whole - indeed he warned against the boundaries. He thought of society not as maintaining, crossing, extending and reinforcing mel described the genesis, evolution, and dissolution network of "social circles" pitfalls of such "social esthetics" (22) - but as a open or closed, bounded or unbounded (24); and geographers, he noticed that social spaces can be "bridges and doors" (23). contacts; this is the root of human fascination for things, that he is attracted by that man has a special drive to "part and connect" population and through individuals. He emphasized was wont to speak in terms of boundaries. So one of whether he analysed conflict, secrecy, the stranger, closing of boundaries (26); the marginal man, as the the main functions of conflict is the strengthening group (27). term indicates, is located at the periphery of the group boundaries (25); likewise, secrecy implies a social groups and "forms" in terms of drawing, marginal man or other basic social "forms" he Long before modern running through a differences and

Simmel stated quite clearly that social boundaries are a social fact, but with spatial implication (28); his "sociological imagination" had, perhaps more than in any other of the founding fathers, a strong spatial and geometrical dimension. This was consciously suppressed in some of the English translation of his work, as unbecoming in a sociological culture dominated by the abstract "action" approach (29); but is was precisely this quality that makes Simmel's work so fruitful for the student of social boundaries.

Simmel is often named today as one of the forerunners of some of more popular trends in sociology, like modern interactionism, the "dramaturgical" approach of Goffman, phenomenological sociology, ethnomethodology and the like. What unites these

schools is the refusal to acknowledge "a priori" the existence of wider social structures; and the focus on has been called "simple social systems", the brief encounters between strangers, the act, the scene, the conversation the short-lived episode. Therefore they are very sensitive to the spatial and temporal "markers", the "horizons", the "parentheses", the "punctuation", the "indexes" that keep these systems together as units of social behavior (30).

center-and-periphery antinomy) widely accepted as a "developing paradigm" in the metaphor" in the social sciences network social sciences as well (32). The open-ended sciences of the territory; but lately it has been to the closed platonic circle (with its attending importance of the network concept is obvious in the making netrate each other. They characterize very important territory; they can therefore extend over different maintaning mechanisms; they grow or recede segmenapproaches to social theory. One is P. Blau's process, an arbitrium, and even a violence. The weaving propinquity, or friendship ties, ramify endlessly, social phenomena; groups defined by kinship, spatial topological spaces, overlap, criss-cross and interpedefined by function and communication more than by tally, merely adding or losing elements, and ters (31). identified respectively by nominal or gradual paramedistinction between bounded or unbounded groups, "structural (primitive) theory" founded on the But Simmel's conception of 'cross-cutting social open-ended structures, without boundary may well become a salutary counterbalance every formal boundary-making a painful continuous cobwebs all over the planet, lies at the basis of at least two other The second is "network theory". Networks as

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from Turner to Wallerstein The Frontiers and Peripheries of Civilizations:

sage, Ibn Khaldoun. pattern noted five centuries ago also by the Arab it, the "conquest from the fringes" (39); it is a the center to the periphery" or, as others have put the "second law of history", the "shift of power from problem, which has been expressed by Toynbee as tested, with mixed results, in great many other cases (38). But there is another facet of the frontier gists; in particular the Turner thesis has often been continuing interest from social historians and socioloworld's frontiers" (37). The frontier problem draws world situation are inputed to the "closing of the dynamics, and many of the characters of the present of great importance in socio-economic and political bility of a frontier of expansion has been considered agricultural civilizations of China (36). The availapastoral Mongol culture in confrontation with the while in the inner Asian frontier it has shaped the disdain for socialism, in the American case (35); diverse cultural traits as love for the firearms and self reliance and local agovernment, and such individualism", a domineering attitude toward nature, the "Spirit of the Frontier" has nurtured the "rugged sized the role of the frontier in shaping cultures. So political systems (34). Many historians have emphaboundaries of stagnating or declining societal, i.e. expanding social systems and the tendentially closed lated also in terms of the "open" frontier of and the open-ended network concepts can be reformu-"grand sociological tradition", from Plato to Parsons, contrast between the closed circle of the

around his units of analysis, the "civilization" or basic one of drawing the spatio-temporal boundaries nected with social boundaries, beginning with the Toynbee has also discussed other problems

> acknowledge and therefore do not defend territorial, as soon as they stop growing. linear boundaries they have only frontiers into which as they are growing such social system do not "societies" in the wider sense. He notes that as long because civilizations, like organism, begin to decay tendentially closed limes (lat. for limit, barrier) open limen (lat. for threshold) into a defended formation of boundaries, the transformation of an they radiate their splendor and fascination (40). The (41) is a mark of stagnation and hence of decadence

lar" systems and open ended, "reticular" structures is basic also to I. Wallerstein model of the "modern The contrast between boundary-defending, "circu-

world system" (42).

old (in particular Rome and China) though ideologically bent on universal domination, failed to achieve carry this burden. He observes that the empires of dialectical opposition between world-empires system he - as many others, from Frank to Galtung sixteenth century. Looking at the world as a single and market networks which radiated out from Western itself with the prose of a world market. To be discarded the dream of a world empire and contented managed boundary-maintenance. Only European connected with internal integration and external also for the organizational and economic problems it not only for lack of adequate technologies, but aries, and economic networks, which do not have to which must face the problem of maintaining boundworld-economies, i.e. between political organizations, his model, for the student of relationships. One of the most interesting features of on the world scale, defined essentially by economic detects a core (metropolis, center)-periphery pattern Europe and penetrated the whole world since the He focuses on the development of commerce routes to unify the world, just because it boundaries, is the capitalism

the process was not accomplished without military violence and attempts at cultural integration; but the essence of the system was the structure of economic relationships, so that it could continue to operate also after colonial empires were dismantled. The European core had structured around itself a complex system of semiperipheral and peripheral areas, which became states (the frontiers turned to boundaries) but could not alter their role in the system.

## 6. From Frontiers to Boundaries: Modernization and the Emergence of New States

The economic determinism underlying Wallerstein's theory can hardly be accepted; but his work is certainly an important contribution to one of the most central of all sociological problems – the rise of modern, i.e. capitalist, society. Other scholars have approached the issue from a more politological point of view, and explored the interaction between modernization, nationalism, and the hardening of societal boundaries (43).

obviate. In the case of the "new" states - and tive" areas follow the penetration of "modern", i.e. consequence or product of environmental pressures and inputs. What states are new, to begin with - the system is the disturbances, which is the task of the system to where "external" influences are considered as mere between socio-cultural penetration and nation-buildpolitical organization, the hardening of boundaries processes; that is, national movements, the rise of The birth of national societies do not fit at all in the closed-system approach, formerly previously "disorganized", "open" and "primisocio-cultural a irontier correlate traits. These relationships area of the modernization of is often

European civilization, becomes a state, and therefore tends to harden, close and control its boundaries.

Students of nation-building are especailly sensitive to the question of boundaries (44). Most new states have been shaped on the tables of diplomatic conferences in Europe and their boundaries have little relation to what are commonly assumed to be "natural boundaries", e.g. geographical and cultural discontinuities. What is commonly forgotten is that all boundaries, even in Europe, are artificial, and have emerged out of the same sort of historical accidents - wars, compensations, marriages agreements, population transfers, suppression of regional ethnic groups (45).

an indicator of modernization; the nation will be state was claimed because people in an area were existed before it became modern, and in others a only to the extent this may serve to international community has therefore cast a radical upon, as stated already by P.J. Proudhon; and the only good boundaries are those "subjectively" agreed natural, rational or "objectively" that territorial and system has learnt from the bloody European history integration (46). the colonial past, and will begin to question them built within whatever boundaries it inherited becoming or wanted to become modern. Nationalism is taboo The war II (47). on changes in the boundaries emerged after difference is that in some cases the state However the present international border questions have just solutions. The

# 7. Boundary Tensions and Social Change: G. De Greef and L.Mayhew

It is commonly assumed that social change derives from two main order of contingencies: the endogenous

tionalities" (48). often the result of an attempt to correct disproporallometric growth", by K.E. Boulding: "growth is reference to biological system, and to the create tensions to be overcome by change; in particular, by growth and expansion of the system. respective environments; and that such differences dent domains, non-congruent territorrial and funca source of social change. The idea here is that the attention has been focused on boundary processes as elites and leaders, etc.). Only in a few cases the several societal subsystems usually have non-coincichange processes that occur well inside the system change; most sociological theories concentrate on the are an obvious, almost trivial source of social and the exogenous ones. Inputs from the environment (cultural principle has been formulated, with primary boundaries, different ways to relate to their dynamics, social differentiation, role of

boundaries of our social systems that explains much of the tensions and the dynamics of social life" Mayhew: "it is the overlapping character of the pensable à une correspondance superieur future" inéquilibre de fait entre les frontieres politiques et facteur indispensable du transformisme social et du phénomène constant de l'histoire; il est meme les autres frontieres des forces sociales...a etè un with those of the political organization: "cet societies, because the boundaries of the "social devalues and deletes the political boundaries among community, G. De Greef stated that the growth of (49). This theory is echoed almost verbatim by L. forces" developed within the system do not coincide internal differentiation and specialisation inevitably and consumption but also in the realm of morals and progressive systems, expanding not only in population At a time when human societies were seen as Une non-correspondence actuelle est indis-

Mayhew approach combines a "grand-theoretical" interest for the whole societal system with a "naturalistic" approach; but in this opening state-ment he seems to hark back also to Simmelian suggestions on the "criss-crossing of social circles" at the microsociological level.

already existing boundary. Once born, however, the obvious in societal systems, where the basic ence", i.e. a simple differentiation in some attribute cal system is basically a boundary-maintaning connected with the advantages of an active defense evolution of living matter, a key in the interpretaspace; in the biological realm, the development of status of societal (systems) centres. The basic in systems dynamics, is the derivative, secondary the management of boundary processes. political (sub)system takes on a very active role in mechanism; it emerges as historically, their defense functions (52); the politiregulative centres is seen as a later tion of phenomena of life (51). The appearance of membranes is seen as one crucial passage in the phenomenon is "a difference which makes a differto boundary processes in social and, more generally, systems boundaries. This seems An interesting consequence of the primacy granted legitimization of the ruling elite a consequence of particularly has source

Most notably, it tends to closure and isolation, because this heightens its control over the whole system, its internal integration, its autonomy from the environment (53), etc.; while the socio-cultural subsystems and the (market)economy usually reach out and strive for opening. But the situation is much less simple than this; for instance, within the polity there is a sub-subsystem, the military, that in its pursuit for security often demands expansion of the whole system; while some sub-sections of the cultural subsystem, like the literati, often develop isolating

devices, like national languages and, in general, nationalistic ideologies.

## 8. A Boundary-Based Typology of Social Systems and the Theory of Worldsociety: N. Luhmann

without which it would be impossible to treat them as (Anwesenheit) tradition are marked by the actual co-presence Simmelian-interactionist-exchange-phenomenological sociological field; and one of the main variables centre (54). He also has developed a typology of social systems embracing the full range of and environment, over the formation of a controlling gence of differences, i.e. boundaries, between system mechanism, and gives logical priority to the emertreats boundary formation as a complexity-reducing interaction, and evolution. In this context Luhmann based on the open system model, system-environment the cybernetic-ecological, or general systems theory, the concept of "core values", and equilibrium) and theory (based on an essentially closed system model, our context, on the integration of Parsonian system range of threads in social theory; most notably, in the boundary concept we have quoted at the opening N. Luhmann, whose indictment of the neglect of into account is precisely the type of boundclearly marked by symbolic boundaries, paper, works on the integration of a wide Thus, the simple social systems of the of the actors in a spatio-temporal

membership requirements, etc.) (57). The importance of spatial boundaries varies with the type of organization, some being more interested in personal qualities and activities of their members, other with their location in space. But the two classes of boundaries are never mutually exclusive (58). The third class of social systems, societies, are construed essentially by networks of economic exchanges and symbolic communications; they have no defended boundaries but mere separations and limits. In our own times all barriers to transport and communication have been broken down be technology, and there is only one society all over the world, the

civilization of through the growth of the rational-materialistic progress, and of the overcoming of national division traced back to the XIX centuries theories national functionalism" which, in turn, is to basically, a reformulation of the doctrine of "intertions, the automatic formation of nodes, etc. This is, simple growth of exchanges of things and informalike law, force and institution-making, but by the progress through the traditional means of Luhmann points out also that world unity emphasizing its real as well as desired of society for the whole of mankind, as any other organization, and reserves the concept nation-state, throws the latter in the same category bases of world-society, as of every other society, Moreover, stressing the communicational and economic society with the political organization of the departs radically from the Parsonian identification of This typology is very important because it Western Europe (60). politics, will not thereby unity.

characterized by very

a much

boundary-maintaining mechanisms and elaborate ad-

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are also

As they are also defined by continuity

(56). The organizations, or organized are characterized by functional boundaries.

potential immortality, the temporal boundaries

over time

less important role. They by very active, sometimes

systems

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### ). Systems and Boundaries in Society

We started out by emphazising both the necessity and the dangers of holistic thinking, the longing for unity and for overcoming of boundaries. Global sociology can easily fall back to old "globaloney", to visionary misticism.

else than a method, a calculus. general theory of systems (61). The basic issue here from the definition of a particular system depends entirely is between a "nominalist", and a "realist" approach. concept of boundary is certainly central to the tantamount as saying complex, open, interpenetrated develop rigorous conceptual frameworks to deal with So much more important therefore it becomes to beholder, rather in the reality out there; that first assumes that the system is in the eye of that, at bottom, systems "theory" the subjective research interests of a theory of boundaries. The systems; which is in nothing the obser-

This means also that the boundaries we assign to a system are wholly conventional and arbitrary; there are no objective criteria to tell a system from its environment. The realist approach maintains, on the contrary, that systems do exist and function in reality, that they develop and maintain boundaries, which can be objectively observed as sharp discontinuities in communication intensity and as absence of feedback loops (62).

Perhaps both positions are true. Some living systems, both natural and artificial, do seem to be real, while others seem rather intellectual constructs For instance, the organism responds rather well to the model of a system (also because the latter was really fashioned after the former), while the ecosystem looks more like heuristic device; beyond the classic case of the pond it is always difficult to

So much more problematic the issue is in the social sciences, where a great deal of what goes on has to do not with crass matter-energy systems but with fleeting and abstract systems made of symbola, feelings, norms, roles, thoughts, fragments of behaviors. Only few human systems display concrete, observable, spatial boundaries; in most cases the boundaries of human systems are only normative and symbolic.

The interplay between territorial and symbolic delimitations, the various mechanisms by which human systems maintain their boundaries, search for optimal balance between the advantages of opening and those of closing the boundaries, the drive for ever-finer selecting and filtering power, the symbolization of spatial borders and the spatialization of symbolic boundaries, the criteria for optimal boundary—making between settlements and regions, the relationships between boundary and conflict, all these are just a few of the possible fields of inquiry of a systems-oriented sociology of boundaries.

### 10. Conclusion

At the Institute of International Sociology of Gorizia we have managed only to begin the exploration of some of these issues. We developed a very simple model relating openness and closure on the one side, spatial mobility or fixity on the other, producing a hopefully meaningful systematization of three of the most current boundary-related concepts: periphery, frontier and crossroads (or bridge) (64). We have also explored some of the problems of people living close to national borders (65), and the potential roles of border regions in providing impetus to cross-border cooperation and international integra-

tion (66) Of course to us the boundary is a basic

unity of mankind; and this entails the preservation expected from people living closer to the centers of a engineering of boundary-processes. conciliation of openness and diversity, of cooperation cal attitude needed in the new situation; but the worldsociety poses it on an unprecedented scale. an altogether new problem (67), but certainly the diversity with a maximum of openness. This is not multiplication of lines of cleavage may increase the all to the bad, because it is one of the basic and, indeed multiplication of boundaries. This is not as much diversity and variety as possible, in the be the most terrible dystopia. We want to preserve be an indifferentiated, homogeneized mass; this would tures, organizations. No one wants world-society to ence of valuable differences between systems, culnational boundaries, because they mean the persistinevitability of boundaries in society, also of society. But we are also painfully aware of the the demise of the nation state and the rise of world tion to sociological theories that open new vistas on another nation-state. So we look with great expectasince we interact daily with people belonging to the non-congruence between nation-state and society, national society. We are perhaps overly sensitive to feature of reality, in a way that is not to be problems; which without loss Tolerance for the "other", is one general psychologi-The problem, then, is to reconcile a maximum of frequency of conflicts, but decreases their intensity. principles of sociology, repeated again and again from Simmel to Merton, from Coser to Blau, that the of identity are basically poses many technical problems of

> scher, 1971, p. 142. N. Luhmann, Soziologische Aufklärung I, Opladen, Westdeut

G. De Greef, Theorie generale des frontières et des classes

Brussels, Larcier, 1908, p. 11, 14, 106-241.

Culture and Communication, Cambridge, Cambridge University Press. author's previous work on boundaries and a plea for a systematic literature cited there some major works should be added: E. Leach, 2. 3, 1977; and R. Strassoldo, 'La teoria dei confini', in: Temi di Bybliographical Essay', Jerusalem Journal of International Relations contribution of T. Schwartz. The Size and Shape of a Culture. Organization, Oslo, Universitetsvorlaget, 1979; and especially in the subject can also be found in F. Barth (ed.), study of the subject can be found. Interesting remarks Librairies Techniques, 1980, where conceptual synthesis of the assembled; C. Raffestin, Pour une geographie du pouvoir, Paris, a wealth of facts and ideas on all sorts of territorial boundaries are Territoriality, The Hague-Paris-New York, Mouton, 1980, where great 1976, on the meaning of symbolic boundaries, T. lociología delle relazioni internazionali, Gorizia, ISIG, 1979. To the 'The Study of Some bibliographic references can be found in: R. Strassoldo Boundaries, a Systems Oriented, Multidisciplinary, Malmberg, Human Scale and Social

Evolution and Development', American Journal of Sociology, 85, 3, M. Granovetter, 'Advancement', in: Theories of

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Ballentine, 1972; A. Wilden, System and structure, London, G. Bateson, Steps to an Ecology of the Mind, New

stock, 1972. E. Leach, op. cit.

7. Two of the best-known authors associated with this idea are J.

Payet and J. Lacan.

G. Vickers, Freedom in a Rocking Boat, Harmonds worth,

Penguin, 1970, p. 136.

K. Schmitt, Der Nomos der Erde, Köln, Greven,

essays by A. Wilden in the work cited above. The Wilden in this area are Bateson and Leach. On this themes see the often fascinating but sometimes murky main

11. Writings on the right-left cerebral asymmetry have become more one of the eminent researchers in this field, R.W.

sperry, got the Nobel prize.

12. G. Bateson, op. cit.

American Journal of Sociology, 86, 3, 1980, p. 468. 13. A. Van Den Berghe, 'Critical Theory: is there still Hope?',

14. Op. cit., p. 219.

Paris, Seuil, 1977; J. de Rosnay, Le macroscope, Paris, Seuil, 1974; E. Jantsch and C. Waddington (eds.), Evolution and Consciousness; London, Jonatahan Cape, 1977. Addison-Wesley, Reading, 1976; C. Waddington, Tools for Thought, Bateson. See also E. Morin, La methode - I, la nature de la nature, some of the main names have already been cited, such as G. innumerable other presentations of this general cognitive attitude; 15. "Fourth logic" is the label proposed by Epistemological Revolution', Futures, 10, 3, 1978. There are

Dahrendorf's criticism of the utopian element in the Parsonian tive studies in society and history, 9, April 1967. See also R. 16. R. Bendix, 'Tradition and Modernity Reconsidered', Compara-

approach 'Out of Utopia', American Journal of Sociology, 1958.

Comparative Perspectives, Englewood Cliffs, Prentice Hall, 1971. books, 1956; see also his later: Societies. Evolutionary systematic earlier treatments is his contribution in: R. Grinker (ed.), Toward an Unified Theory of Human Behavior, New York, Basic scattered in the large corpus of his writings, and it is hardly possible to present here a balanced analysis. One of his more 17. Parsons reflections on the theme of boundaries are widely

Peterson (eds.), System, Change and Conflict, New York, McMillan, Dahrendorf's and A. Gouldner's contributions in: N.J. Demerath, R.A. 18. On the alledged "closure" of the Parsonian model see R.

19. L. Mayhew, Society. Institutions and Activities, Glenview, Scott

20. Another eminent functionalist who concerned himself with boundary problems is E. Shils, e.g. in: Center and Periphery,

Chicago, University of Chicago Press, 1975.

21. R. Bendix, Kings or People, Power and the Mandate to Rule, Rise of the West, Chicago, University of Chicago Press, 1967. Europe, Princeton, Princeton University Press, 1975; W. McNeill, The same author; C. Tilly, The Formation of National States in Western University of California Press, 1978, and previous works of the

Simmel, Soziologische Asthetik, in: Brücke un Tür,

Stuttgart, Koehler, 1957.

Gesellschaft, in: Soziologie, Leipzig, Duncker & Humbolt, 1908, pp. G. Simmel, Der Baum und die raumlichen Ordungen

The Free Press, 1966, pp. 17-18. Simmel, Conflict and the Web of Group Affiliation, New

sociology of G. Simmel, K.H. Wolff, (transl. and ed.), New

27. G. Simmel, Soziologie, cit.

Ibidem, p. 617.

and the Web of Group Affiliations, cit., p. 125. 29. See the translator's (R. Bendix) note in G. Simmel, Conflict

e.g.: H. Mehan, H. Wood, The Reality of Ethnomethodology, New Rélations in Public. Microstudies of the Public Order, Harmonsworth, On ethnomethodology, interactionism and other "microsociologies", see Plenguin, 1971; and Encounters, Indianapolis, Bobbs-Merrill, 1961. boundaries are scattered throught his voluminous output. See e.g.: 30. Also in Goffman's case, as in Parson's, observations on

Social Structure, New York, The Free Press, 1977. 31. P. Blau, Inequality and Heterogeneity: a Primitive Theory of

York, Academic Press, 1977. S. Leinhardt, Social Networks: a Developing Paradigm, New

33. J. Gottman (ed.), Center and Periphery: Spatial Variations in

Politics, London, Sage, 1980.

Hague-Paris-New York, Mouton, 1981, p. 75. A. Kuklinski (ed.), Polarized Development and Regional Policies, Strassoldo, Center and Periphery: Socio-Ecological Perspectives, in: has been proposed by the present author in several papers; e.g.: R. interplay between two modalities, open/closed and static/dynamic, and other types of "boundary situations", resulting from 34. A simple model relating the concepts of periphery, frontier,

History, 1894; the thesis has been reformulated and reprinted 35. F.J. Turner, The Significance of the Frontier in American

innumerable times since that year.

36. O. Lattimore, Studies in Frontier History, Paris-The Hague

by M. Merle. congress of the International Political Science Association even devoted a session to the subject; its proceedings have been published scholars of international relations and political geography. The 1976 monde fini commence) and restated innumerable times ever since by such diverse writers as Mackinder, Mumford, and many contemporary "limited world" has been announced already by M. Proust (l'ère du 37. The closing of the world frontiers and the beginning of the

Studies, University of Oklahoma Press, 1977. 1975; D.H. Miller, J.O. Steffen (eds.), The Frontier: Comparative Perspective', Comparative studies in society and history, 17, 50, 1960; R. Gerhard, 'The Frontier in Comparative View', Comparative studies in G.R. Taylor, The Turner Thesis, Boston D.C., Heath, 1956; D. Society and History, I, 1959; M. Mikesell, 'Comparative studies in Frontier History', Annals of the Association of American Geographers, J.G. Leyburn, Frontier Folkways, Boston, Anchor, 1970 (1935). Katzman, The Brazilian Frontier in a Comparative

Toynbee, A Study of History, vol. 8, Oxford, Oxford

California Press, 1967. University Press, 1954; R. Wesson, The Imperial Order, University of

A. Toynbee, Storia delle civiltà, Roma, Newton Compton, 1973, p. 48. 41. Op. cit., p. 51. 40. We cite here from an Italian translation of Somerwell's edition:

Press, 1974. 42. I. Wallerstein, The Modern World System, New York, Academic

Modernization of Societies, New York, Basic book, 1968; L. Mayhew, 43. J.P. Nettl, R. Robertson, International Systems and the

Communication Theory, in: R.R. Grinker (ed.), Toward a Unified boundaries; beginning with, Authonomy and Boundaries According to a large number of lucid contribution to the problems of societal Theory of Human Behavior, cit. 44. Eminent among them is certainly K.W. Deutsch, to whom we owe

are apparently awakening to the hapazard nature of state formation; 45. The situation is apparently changing. Even American authors

cfr. M. Granovetter, op. cit., p. 510.

ministrative subdivisions of empires. On the boundaries of states Independent Africa, Cambridge, Harvard University Press, 1972. a large literature. See e.g. S. Touval, The Boundary Politics of grown out of modern colonial empires, especially in Africa, there is proceeding empires, and reflect in their boundaries the political-ad-46. Toynbee maintains that all states grow out of the ruins of the

l'heure du Marchè Commun, Bruxelles, Université Libre de Bruxelles, Gorilly, in: P. Romus (ed.), Les regions frontalieres a

Quadrangle, 1968 (1953), p. 30. Boulding, The Organizational Revolution, Chicago,

Brusselles, Larcier, 1908, p. 239. 49. G. De Greef, Theorie generale des frontieres et des classes,

50. L. Mayhew, Society: Institutions and Activities, cit., p. 1.

effects" and boundary phenomena in the formation and behaviour of Nouvelle alliance has pointed out the importance of the "surface Schopf on the early evolution of macromolecules and of cells; in: dissipative phisico-chemical structures. Scientific American, Italian Edition, September 1978; Prigogine in La 51. See for instance the works of E.E. Dickerson and of J. Willima

Elias, Uber den Prozess der Zivilisation, Berne, Francke,

11-30.

Del Bianco, 1974; N. Luhmann, Soziologische Aufklarung II, cit. p. 53. G. Kaufman, Il sistema globale - immagini e modelli, Udine.

54. N. Luhmann, Soziologische Aufklarung II, cit., p. 13.

Ibidem, pp. 10,

Ibidem, pp. 23, 28ff.

Ibidem, p. 10.

N. Luhmann has often speculated on the role of space and

Aufklarung II, cit., p. 60ff. Aufklarung I, Opladen, Westdeutscher, 1971, p. 145; spatial boundaries in social systems; see e.g., Soziologische Soziologische

See several essays in: Soziologische Aufklarung II. and in

particular 'Die Weltgesellschaft'.

60. E.B. Haas, Beyond the Nation State, Stanford University Press,

cited in this context by R. Strassoldo, 'La teoria del confine', in: Living Systems, New York, McGraw Hill, 1977. Some other works are Toward a Unified Theory of Human Behaviour, cit.; J.G. Miller, Rapoport, K.W. Deutsch, and D. Campbell in: R.R. Grinker (ed.), Temi di sociologia delle relazioni internazionali, Gorizia, ISIG, 1979. 61. See the various contributions (especially of T. Parsons, A. 62. Among the former, A. Kuhn, The Logic of Social Systems, S.

Francisco, Jossey Bass, 1974; the leading exponent of the latter is J.G. Miller. On the problem see the criticisms of Rapoport, Parsons,

mental Psychology, New York, Holt, Rinehart & Winston, 1974, approach like that of Ittelson et al., An Introduction to Environof H.T. Odum, Environment, Power and Society, New York, Wiley, environments; boundaries are imposed by the observer on the enshrines the lack of real boundaries as the main characterists of definition (p. 59); while a more psychological, informational 1971, takes the boundaries for granted, with only minor problems in Kuhn and others in: Behavioral science, 25, 1, 1980. environment (p. 105). In this light, G. Bateson's reiterations that "the real evolutionary unit is neither the organism nor the species. fascinating, but not very helpful to scientific inquiry. but the eco-system", is morally very valuable and philosophically 63. Typically, a matter-energy approach to ecosystems, like that

Strassoldo, Sviluppo regionale e difesa nazionale, Trieste, Lint, 1972; R. Gubert, L'identificazione etnica. Un'indagine sociologica See also F. Grass, Ethnics in the Borderland, Westport, Greenwood rapporti interetnici al confine nordorientale, 1976; A.M. Boileau, E. Sussi, Dominanza e minoranze, immagini e in un'area plurilingue del Trentino-Alto-Adige, Udine, 65. R. Gubert, La situazione confinaria, Trieste, Lint, 1972; R. Udine, Grillo, 1980.

Plures, Regionalismus in Europa, München, Intereg, 1981; also, So-'Friuli-Venezia Giulia, a border region', in:

ciologia delle relazioni internazionali, cit.

Systems, in: R. Strassoldo (ed.), Boundaries and Regions, Trieste, Lint, 1973; O. Klapp, Opening and Closing, Cambridge, Cambridge University Press, 1978. 67. H. Teune and Z. Mlinar, Development and the Openness of