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# MEANS AND ENDS OF COMPARISON IN MACROSOCIOLOGY

## Charles Tilly

#### ABSTRACT

John Stuart Mill's own warnings rule out the application of his experimental methods to social processes. Although previously popular in the social sciences, big case comparisons are properly disappearing. Social scientists should shift to the search for general causal mechanisms in multiple, never repeated, structures and processes.

Variation in vitro differs significantly from variation in natural history, a fortiori from variation in social history and macrosociology. After laying out his famous Methods of Agreement and of Differences, as well as his oftenignored Methods of Residues and of Concomitant Variation, John Stuart Mill reminded readers that his Methods applied exclusively to experimental procedures. Mill confined them, furthermore, to relatively simple phenomena entailing little interaction among causes, which meant they would not much advance understanding of living organisms. He therefore issued a stern warning:

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should be sent back to learn the elements of some one of the more easy physical sciences experimental reasoning which one is accustomed to meet with, not in popular discussion such causes have contributed to the prosperity of one country, when another has prospered only, but in grave treatises, when the affairs of nations are the theme. "How," it is asked, as among the most unequivocal marks of a low state of the speculative faculties in any of a most comprehensive description, such as the public wealth, public security, public embarrassment, most of the inquiries in political science relate to the production of effects effects are, for the most part, inextricably interwoven with one another. To add to the to a class of phenomena more complicated than even those of physiology, the phenomena without them?" Whoever makes use of an argument of this kind, not intending to deceive, age in which it is accredited. Nothing can be more ludicrous than the sort of parodies on that the true guide is not general reasoning, but specific experience—will one day be quoted vulgar notion, that the safe methods on political subjects are those of Baconian inductionin minus by nearly every fact which exists, or event which occurs, in human society. The morality, and the like: results likely to be affected directly or indirectly either in plus or of politics and history. There, Plurality of Causes exists in almost boundless excess, and If so little can be done by the experimental method to determine the conditions of an effect of many combined causes, in the case of medical science; still less is this method applicable "can an institution be bad, when the country has prospered under it?" "How can such or

Later, Mill identified the chief difficulties in applying his experimental methods to human affairs: not only the complex interaction of causes, but also the fact that his methods required a priori a finite, specified set of hypothetical causes. Aimed at social processes, Mill's Methods remained always, fatally vulnerable to the allegation that a hitherto-unsuspected cause was operating.

No one has much improved on Mill's own initial statement of objections to application of his four experimental methods in the explanation of social processes. Yet, as John Goldthorpe complains, twentieth century social scientists have often invoked the Method of Agreement and the Method of Differences as justifications for big case comparisons—hereafter BCC. In this invited response to Goldthorpe's analysis, I will neither recapitulate the independent critique of BCC I have presented ad nauseam elsewhere nor describe in any detail the alternatives to BCC I have advocated and practiced incessantly for many years; this discussion focuses on what Goldthorpe says about BCC

Goldthorpe rightly claims that switching from "variables" to "cases" does not mitigate the problem of coherent comparison; in fact, it makes Mill's own strictures all the more applicable. If they had listened to Mill, social scientists would never have adopted BCC. Goldthorpe misses the crucial next step. Small Ns, Galton's diffusion processes, and appeal to black-box causation do bedevil many applications of BCC, but all constitute soluble secondary difficulties. Here is the primary difficulty: BCC provides a fine heuristic but a logically and ontologically flawed basis for serious explanation of social processes. Although they might not have adopted the Comtean evolutionist approach that Mill himself advocated, from the start attentive readers of John Stuart

Mill should also have rejected the program Edward Tylor styled the Comparative Method in 1889. No less a figure than Francis Galton, after all, identified the program's crippling weaknesses at its very unveiling (Hammel 1980). Yet only now, more than a century after Tylor's explication of the Method, is the program collapsing. Its charms long led social scientists to ignore its fatal vices.

undoubted contributions as a means of disciplining inquiry; because the system chunks of social experience for arguments about causes and meanings will other social sciences. Historical inquiry will thrive, but not in the mode that processes, and huge comparisons in space-time will continue in sociology and days. Those days will soon pass. Vital, vibrant work on big structures, large creating, comparative-historical analysis in the BCC mode has seen very good of distinct, bounded sovereign states that long served as its implicit warrant reasons: because its faulty ontological premises are finally outweighing its but will shrivel as a method of systematic analysis. BCC will shrivel for several persist as the heuristic and literary trope it has been for hundreds of years, has come to define the field during the last scholarly generation: BCC. The all portrayals of social life as the work of neatly-bounded, self-motivated, ruleinstitutional thinking in the social sciences is raising insuperable challenges to is rapidly disintegrating; because the rise of relational, historicist, and lining up of civilizations, societies, cultures, wars, revolutions, and other great following actors, individual or collective. As a program for investigating, writing, teaching, communicating, and job-

Comparison of large social chunks in search of invariant laws has marked the social sciences since their emergence as self-regarding disciplines—certainly since 1889. In different styles, Max Weber, Oswald Spengler, and Pitirim Sorokin exemplified and justified sociologists' investment in vast comparative enterprises. During the 1940s, big comparative-historical inquiries lost much of their lustre in sociology—in 1959, the American Sociological Association-sponsored volume Sociology Today surveyed the whole field, but offered no sustained discussion of historical or comparative analysis—only to revive handsomely with S.N. Eisenstadt, Reinhard Bendix, Stein Rokkan, Barrington Moore, Jr., and others from the late 1950s onward. That second wave is now subsiding. The sea will survive, but its chief currents already run in other directions.

In their time, historical-comparative inquiries provided splendid antidotes for unhistorical and antihistorical maladies in social science. However one disagreed with them on other grounds, such masters as Bendix, Rokkan, and Moore made evident how greatly where, when, and in what order some social process occurred mattered to *how* it occurred. They exposed the bankruptcy of the quasi-evolutionary pseudo-history in which searchers for the secrets of development lined up whole societies, generally identified by the existence of a durable state, along a single continuum from least to most advanced, then

inferred the standard developmental path from that continuum—or, worse yet, from currently-observable characteristics of its most advanced members. They validated concerns about power, freedom, and human agency bequeathed to social science by Karl Marx, Max Weber, and other ancestors. They thereby motivated rich, ambitious historical and comparative examinations of human struggles.

From early on, nevertheless, postwar historical-comparative analysis followed multiple paths in addition to the comparison of civilizations, societies, cultures, and momentous events. Inspired partly by a populist hope to reconstruct history from below and partly by collaboration with historians who were trying to renew their own craft through self-conscious adoption of social-scientific procedures, students of family structure, population processes, communities, political struggle, and economic change dug deeply into historical materials without concentrating on massive case-by-case comparisons (Abbott 1994; Monkkonen 1994). Despite strident epistemological challenges from postmodern critics, such studies still thrive today (see, e.g., Hanagan 1994). Yet the emblem of comparative-historical analysis, Big Case Comparison,

Yet the emblem of comparative-historical analysis, Big Case Comparison, is now fading. BCC is fading because of (1) ontological inadequacy, (2) disintegration of state systems, and (3) relational, historicist, and institutional thinking.

Ontological inadequacy? The presumption that distinctive, autonomous, coherent, self-sustaining civilizations, societies, cultures, and/or great events not only exist but possess their own logics sui generis undergirds the BCC program. Where empirically-identifiable states, organizations, networks, or connected sequences of action actually constitute the objects of study, to be sure, social scientists have ample reasons to formulate ideas concerning their regularities and to undertake systematic comparisons among them. But presuming their intelligible existence a priori, inferring the coherence of societies from the presence of states, or taking historically-constructed memories of events—wars, revolutions, social movements, transitions, or others—as grounds for their comparative study founds analysis on the fallacy of misplaced concreteness. Half-aware of the difficulty, many of BCC's most ardent practitioners are abandoning it for historically-grounded studies of social processes (Lloyd 1993; Smith 1991).

Disintegration of the state system? Implicitly or explicitly, the BCC program has always relied on presumptions about the division of the world into coherent nations and states, presumptions that only became prevalent with the consolidation of the European state system and its rapid seizure of world power during the nineteenth century (Thomson 1995). Whether consolidated states as the world has known them for two centuries are now losing their grip or merely adapting as the world-system changes remains hotly debated (Tilly et al. 1995). Massive flows of capital, labor, commodities, information, and technology across national boundaries and increasing prominence of such

transnational structures as the European Community and GATT are surely both reducing the autonomy of most states and undermining their capacity to regulate activities within their territories. Meanwhile the expansion of communal-ethnic struggles over political power within existing states (Gurr 1994) discredits any easy equation of society or culture with state. Continuation of these trends is already attracting the attention of macroanalysts to nonnational webs of social relations; it will eventually destroy the plausibility and interest of comparisons among state-defined societies (Puchala 1995; Ruggie 1993; Wendt 1994; Wendt and Barnett 1993).

writing finis. the once-dominant program of comparative-historical social science is now individual or collective (Friedman 1995; Nelson 1995; Resnick 1996; White chopping social life into neatly-bounded, self-motivated, rule-following actors, of memory, culture, institutions, and social ties contradicts any possibility of improvisation that lays down subsequent constraints on behavior in the form strength. In a wide variety of fields, furthermore, the idea of incessant human analysis. The first three have run their course, while the fourth is gaining with transactions, interactions, or social ties serving as starting-points of social to the consciousness of actors, individual or collective; and relational realism, phenomenological individualism, with its parallel reduction of social reality reduction of social reality to the self-motivated actions of individual actors; autonomous and compelling logics; methodological individualism, with its collectivities (including that great collectivity called Society) following contemporary social science, we might distinguish systems theories, with process, but not through a continuation of Big Case Comparison. In that sense, 1992). Macroanalysis will benefit enormously from these new ideas about social Relational, historicist, and institutional thinking? As approaches in

John Goldthorpe has in fact recently been writing anticipatory obituaries for BCC (e.g., Goldthorpe 1991). He has, however, emphasized secondary traits of our moribund friend. The situation is both worse and better than Goldthorpe claims. Worse, because social scientists including Goldthorpe have wasted a great deal of time fretting about the logic of comparing whole countries to account for similarities and differences among those countries, when for most purposes they should simply have eschewed such comparisons. Better, because social scientists have always had more effective explanatory logics available than BCC. For effective social science, like effective science of any other kind, does not concern cases or variables, but valid causal mechanisms, wherever and at whatever scale they occur.

In a limiting case—where behavior of a state or of state-circumscribed institutions is itself at issue—the state-defined country may indeed turn out to be the appropriate unit of comparison. But even there the crucial causal mechanisms will commonly operate at several different scales, and be verifiable for precisely that reason. Despite the limited scope for experiment in their

inquiries, N=1 has not kept geophysicists, cosmologists, paleontologists, or ecologists from doing valuable scientific work. For practical purposes, N has equaled the number of independent observations they could make of processes in action or their outcomes. Historical students of large-scale social processes similarly take advantage of multiple purchases on crucial causal mechanisms, each intervention into the historical record constituting another opportunity to be proven wrong.

On what grounds, for example, do most students of state formation believe that (a) under a wide, roughly specifiable set of historical circumstances successful warfare creates states, and (b) in those circumstances different organizations of warfare produce systematically different state structures (Porter 1994; Rasler and Thompson 1990; Starr 1994)? They believe those propositions not because of large-N statistical analyses or neat John Stuart Millian comparisons of cases but because for a large range of times, places, and situations they can construct relevant, verifiable causal stories resting on differing chains of cause-effect relations whose efficacy can be demonstrated independently of those stories. They also believe the propositions because they look robust over many kinds and scales of evidence, from statistical analyses of wars to close reconstructions of particular historical sequences.

That scholars will eventually supersede such gross, imprecise propositions with more refined, more adequate, and partly contradictory analyses does not gainsay the superiority of the search for widely applicable cause-effect relations over BCC and related searches for invariant sequences or structures. If Goldthorpe rightly stresses the impossibility of identifying such causal mechanisms by means of pure induction from case studies, he somehow fails to recognize the possibility of deducing relevant hypotheses from historically-grounded theories of the middle range (Merton 1957, p. 9).

Relevant causal situations far exceed the domain of neatly-bounded, mutually-exclusive, substantial states. States have been forming in various parts of the world for roughly sixty centuries. In most of those times and places, warmaking has dominated state formation. In a nice dialectic, the massive creation of military forces during the last two centuries has actually attenuated the impact of military activity on state structure both (a) through promoting the creation of civilian organizational infrastructure having its own autonomous weight and (b) through reliance on implicit bargains with major political actors that thereby have gained the power to steer the state toward their own interests.

Cause-effect relations linking state structure to military activity include the generalization of concentrated coercive means to non-military compulsion, the creation of centralized administrations as a by-product of extracting means for war, and bargaining with civilian populations over those means. Like the causal mechanisms to which geologists and ecologists appeal, such causal mechanisms appear in different combinations and sequences, with different

weights, in concrete historical situations (Stinchcombe 1978a). No more than any geologist imagines all mountains to form as minor variants on the same model does an intelligent analyst of state structure confine the military-state relation to a single invariant pattern; like a wise geologist, she shows how widely-applicable causes concatenate into substantially different outcomes depending on initial conditions, subsequent sequences, and adjacent processes. Although all analysts can—and frequently do—aggregate these causes to a national scale, in fact they operate at many scales, from encounters between households and tax collectors to the settlements through international intervention of national rebellions and civil wars. Hence the possibility of verifying the efficacy of ostensible causes at one scale, then aggregating or disaggregating them to trace their analogs at other scales.

mediated by the non-human environment. consequences, indirect effects, alterations of social networks, and influences constitute central administrations. Such a causal web certainly includes unanticipated consequences and indirect effects, those remedial efforts effects, and stimulates concerted popular resistance. Each of these effects calls example, in part because through no one's intention the seizure of means for evolutionary economists, transaction-cost organization theorists, and network intentional action, but much of it consists of errors, unanticipated forth remedial action on the part of authorities. Repeated, with their own both rulers and ruled, alters the physical environment, produces perverse money—disrupts non-military routines, creates new social connections among military action-men, horses, food, clothing, weapons, information, and Stinchcombe 1978b). Warfare generates centralized administrations, for Nelson 1995; North 1991; Portes and Sensenbrenner 1993; Simon 1991; analysts (Baron 1984; Bowles and Gintis 1993; Granovetter 1988; Merton 1936; the complex, contingent, collective effects of social interaction dealt with by of motivated individuals? Some do, most don't. More of them correspond to Do the causal mechanisms involved reduce ultimately to the rational actions

In these regards, each state has its own distinctive concatenation of causes; the generation of central administration by land warfare operated differently (and less pervasively) in Holland than in neighboring Prussia. It does not follow, however, that the causes operated chiefly, much less exclusively, at the scale of states. Social scientists have often slipped into the fallacious assumption that if two comparable social units differ with respect to some attributes of the difference between them must result from differences in other attributes of the same social units; they have relied on monad individualism writ large, a generalization to social aggregates of the idea that the cause of any individual's behavior must be some propensity, trait, or decision of that same individual (Bhargava 1992). In fact, differences among social units commonly result from locations in social networks, from environmental effects, from localized events that cumulatively affect the unit as a whole. An eternity of correlating and

comparing aggregate characteristics of the units will never identify the crucial

explanatory efforts. our thinking about these complex phenomena in preparation for genuine Yet as normally practiced Big Case Comparison can do no more than discipline regards exist. They result in part from events and policies at a national scale. measurable and existentially significant international differences in all these nationalism, democratization, revolution, income inequality, or racism: and Morgan 1995). We could turn to genocide, infant mortality, aging, the world (Bielby and Baron 1986; Blau and Kahn 1992; Charles 1992; Petersen mechanisms—notably the fine segregation of jobs—that appear widely across great bulk of variation depends on different concatenations of causal where effects of state policy and educational systems certainly appear, but the 1995; Somers 1993). We could examine gender inequality in employment, national differences (Cerutti, Descimon, and Praak 1995; Cohen and Hanagan scales than the nation clearly contributed to what we now see as entrenched of citizenship, where lawful but variably-conjoined causal mechanisms at other Do we need other examples? We could draw them from the historical study

analyses, but on the demonstrated presence and robustness of the causal effect relations, relations whose efficacy can be demonstrated independently construct relevant, verifiable causal stories resting on differing chains of causemechanisms they enchain. dependency. Their validity will ultimately depend not on Millian experimental of those stories. Those stories will feature strong contingency and pathor small-N case studies. If we are to arrive at explanations, we will have to logic, not on deductions from covering laws, not on precise multivariate It makes little difference whether we choose large-N multivariate analyses

# ACKNOWLEDGMENT

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the more strident tone of this essay will catch their attention. points in 1985, but subsequent theorists and practitioners did not hear them; perhaps Processes, Huge Comparisons (New York: Russell Sage Foundation) made the essential

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