INTRODUCTION

seem to lie in ruthless publicity. Those who present statistical series on long-term economic change must offer the reader an unobstructed look into the statistician's laboratory. Accordingly, this writer's indices of Italian and Bulgarian output (Chapters 4 and 8) are supported by rather complete statements on sources, nature of the raw data, and methods of computation, which the reader will find in Appendices I and II.²

The general importance of these statistical problems must not be underrated. But in the present context they also serve to emphasize the fact that such unity as this volume possesses lies not only in the affinity of the themes treated but also, even though less conspicuously, in the methods of research that have been applied.

So far these appendices have been available only in mimeographed form.

Alexander Gerschenkron, Economic Backwardness in Historical Perspective: A Book of Essays (New York: Prederick A. Praeger, 1962), Introduction

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Economic Backwardness in Historical Perspective

a word of explanation. Unlike so many of their predecessors, modern stances" have been demolished the great bridges between the past and of the other, modern historical relativism moves gingerly. Modern seals, between the omnia certa sum of the one and the ignorabinu Goethe's description of history as a book eternally kept under seven assertion of the absolute certainty of our knowledge of the past and some exceedingly simple and general historical law. Between Seneca's prophetic fervor was bound to vanish together with the childlike faith historians no longer announce to the world what inevitably will, or at so sately and so confidently. John Stuart Mill once called "the slavery of antecedent circumhistorical processes has been discarded. But along with what torian's emphasis, interest, and point of view. The search is no longer perforce means the past itself - changes perpetually with the his in a perfectly comprehensible past whose flow was determined by least what ideally should, happen. We have grown modest. The the future upon which the nineteenth-century mind used to travel invariant as that of the course of the planets. The iron necessity of for a determination of the course of human events as ubiquitous and historians realize full well that comprehension of the past — and that A HISTORICAL approach to current problems calls perhaps for

Does this mean that history cannot contribute anything to the understanding of current problems? Historical research consists es-

sentially in application to empirical material of various sets of empir of this contribution should not be exaggerated. But it should not be questions that may be addressed to current materials. The importance extraction from the vast storehouse of the past of sets of intelligent dividual factors in these situations can be ascertained. None of these certain typical situations, and certain typical relationships among inof the resulting fit, in the hope that in this way certain uniformities, ically derived hypothetical generalizations and in testing the closeness only a spatial but also a temporal problem. All decisions in the field problems depends largely on the broadness of our frame of reference. underrated either. For the quality of our understanding of current of economic policies are essentially decisions with regard to comis not peculiar to any special geographic area. Furthermore, it is not lends itself to easy extrapolations. All that can be achieved is an binations of a number of relevant factors. And the historian's conof which in current discussions might prove useful. some relationships which existed in the past and the consideration of finding their own answers and shaping their own future. The folmatter. No past experience, however rich, and no historical research, are the questions. The answers themselves, however, are a different easily perceived within a more limited sphere of experience. These potentially significant combinations among them which could not be tribution consists in pointing at potentially relevant factors and at Insularity is a limitation on comprehension. But insularity in thinking lowing remarks, therefore, purport to do no more than to point at however thorough, can save the living generation the creative task an eviments Organi Bo Kima mode: twinerax

THE ELEMENTS OF BACKWARDNESS

A good deal of our thinking about industrialization of backward countries is dominated — consciously or unconsciously — by the grand picture of the latter's future." There is little doubt that in some more developed country presents to the less developed country a of development for the more backward countries. "The industrially vanced or established industrial countries which traces out the road Marxian generalization according to which it is the history of ad-

'Karl Marx, Das Kapital (1st ed.), preface

ECONOMIC BACKWARDNESS IN HISTORICAL PERSPECTIVE

respects the development of a backward country may, by the very existence of the other half - that is to say, in several very important heartedly. For the half-truth that it contains is likely to conceal the that Germany, between the middle and the end of the last century, broad sense this generalization has validity. It is meaningful to say of an advanced country. virtue of its backwardness, tend to differ fundamentally from tha But one should beware of accepting such a generalization too whole followed the road which England began to tread at an earlier time

for which there was little or no counterpart in an established industria among advanced and backward countries. Finally, the extent to which siderable extent the result of application of institutional instruments with regard to the productive and organizational structures of industry which emerged from those processes. Furthermore, these differences the natural industrial potentialities of the countries concerned. pears to have varied directly with the degree of backwardness and these attributes of backwardness occurred in individual instances ap country. In addition, the intellectual climate within which industrial compared with more advanced countries, not only with regard to the at length in a backward country, showed considerable differences, as tant historical instances industrialization processes, when launched ization proceeded, its "spirit" or "ideology," differed considerably speed) of the development (the rate of industrial growth) but also in the speed and character of industrial development were to a con It is the main proposition of this essay that in a number of impor

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examples, more will be said on the effects of what may be called ning of the First World War. Thereupon, on the basis of concrete ropean countries 2 in the ninetcenth century and up until the begin the available historical information on economic development of Eu industrialization processes of backward countries as synthesized from Let us first describe in general terms a few basic elements in the

to the excellent study by Henry Rosovsky, Capital Formation in Japan, 1868-1940 thus broadening the scope of his observations. The reader must be referred, however, the writer's ignorance of Japanese economic history has effectively barred him from at least by including some references to the industrialization of Japan. Unfortunately, dustrial history is explicitly discussed (Glencoe, 1961), in which the validity of this writer's approach for Japanese in alt would have been extremely desirable to transcend the European experience

"relative backwardness" upon the course of industrial development in individual countries.

on the one hand, and the great promise inherent in such a developof considerable industrialization processes may be described as char of natural resources. Furthermore, no industrialization seemed posacterized by the tension between the actual state of economic activities sible, and hence no "tension" existed, as long as certain formidable ment, on the other. The extent of opportunities that industrialization adequate endowment of usable resources, and assuming that the great institutional obstacles (such as the serfdom of the peasantry or the presents varied, of course, with the individual country's endowment veblen, was one of the primary factors assuring a high speed of wardness of the country. Industrialization always seemed the more ent in industrialization may be said to vary directly with the back blocks to industrialization had been removed, the opportunities inherfar-reaching absence of political unification) remained. Assuming an the backward country could take over from the more advanced promising the greater the backlog of technological innovations which slavish imitators of German methods, and the English fully reciproengineers of the sixteenth century accused the English of being but tion. There always has been the inevitable tendency to deride the development in a backward country entering the stage of industrializaing extraordinary and extravagant claims. But all these superficialities in its industrial development, and the Russians have retorted by mak own day, Soviet Russia has been said to have been altogether imitative cated these charges in the fifties and sixties of the past century. In our backward country because of its lack of originality. German mining economic actualities in backward countries. opportunities for rapid industrialization with the passage of time, foreign machinery and of foreign know-how, and the concomitant tend to blur the basic fact that the contingency of large imports of increasingly widened the gulf between economic potentialities and The typical situation in a backward country prior to the initiation

The industrialization prospects of an underdeveloped country are frequently judged, and judged adversely, in terms of cheapness

and from country to country. But the overriding fact to consider is that industrial labor, in the sense of a stable, reliable, and disciplined contrary, the cheapness of labor in a backward country is said to aid of labor as against capital goods and of the resulting difficulty in substituting scarce capital for abundant labor. Sometimes, on the end of the century, German writers like Schulze-Gaevernitz kepi may recall the admiring and envious glances which, toward the very estate which presumably made him more amenable to accept the nineteenth century had been raised in the strict discipline of a Junker models. In reality, conditions will vary from industry to industry rigors of factory rules. And yet the difficulties were great, and one trations in this respect. Many a German industrial laborer of the process. The history of Russian industry provides some striking illusextremely scarce in a backward country. Creation of an industrial labor has become suitable for utilization in factories, is not abundant but group that has cut the umbilical cord connecting it with the land and however, is more complex than would appear on the basis of simple greatly in the processes of industrialization. The actual situation, ments of European industrializations in the field of labor supply. tries in India repeat in a still more exaggerated form the past predica does not find his equal in the past." In our time, reports from indusof the future . . . born and educated for the machine . . . [who casting across the Channel at the English industrial worker, "the man force that really deserves its name is a most difficult and protracted

Under these conditions the statement may be hazarded that; to the extent that industrialization took place, it was largely by application of the most modern and efficient techniques that backward countries could hope to achieve success, particularly if their industrialization proceeded in the face of competition from the advanced country. The advantages inherent in the use of technologically superior equipment were not counteracted but reinforced by its labor-saving effect. This seems to explain the tendency on the part of backward countries to concentrate at a relatively early point of their industrialization on promotion of those branches of industrial activities in which recent technological progress had been particularly rapid; while the more advanced countries, either from inertia or from unwillingness to require or impose sacrifices implicit in a large investment program, were

neither by Germany nor by any other country.

To a considerable extent (as in the case of blast furnaces just cited), utilization of modern techniques required, in nineteenth-century conditions, increases in the average size of plant. Stress on bigness in this sense can be found in the history of most countries on the European continent. But industrialization of backward countries in Europe reveals a tendency toward bigness in another sense. The use of the term "industrial revolution" has been exposed to a good many justifiable strictures. But, if industrial revolution is conceived as denoting no more than cases of sudden considerable increases in the rate of industrial growth, there is little doubt that in several important instances industrial development began in such a sudden, eruptive, that is, "revolutionary," way.

The discontinuity was not accidental. As likely as not the period of stagnation (in the "physiocratic" sense of a period of low rate of growth) can be terminated and industrialization processes begun only if the industrialization movement can proceed, as it were, along a broad front, starting simultaneously along rnany lines of economic activities. This is partly the result of the existence of complementarity and indivisibilities in economic processes. Railroads cannot be built unless coal mines are opened up at the same time; building half a railroad will not do if an inland center is to be connected with a port city. Fruits of industrial progress in certain lines are received as external economies by other branches of industry whose progress in

turn accords benefits to the former. In viewing the economic history of Europe in the nineteenth century, the impression is very strong that only when industrial development could commence on a large scale did the tension between the preindustrialization conditions and the benefits expected from industrialization become sufficiently strong to overcome the existing obstacles and to liberate the forces that made for industrial progress.

This aspect of the development may be conceived in terms of Toynbee's relation between challenge and response. His general observation that very frequently small challenges do not produce any responses and that the volume of response begins to grow very rapidly (at least up to a point) as the volume of the challenge increases seems to be quite applicable here. The challenge, that is to say, the "tension," must be considerable before a response in terms of industrial development will materialize.

more backward southern Russia were in the process of outstripping in equipment their German counterparts. Conversely, in the nineteenth

modern innovations, and it is instructive to see, for example, how German blast furnaces so very soon become superior to the English ones, while in the early years of this century blast furnaces in still

century, England's superiority in cotton textile output was challenged

The foregoing sketch purported to list a number of basic factors which historically were peculiar to economic situations in backward countries and made for higher speed of growth and different productive structure of industries. The effect of these basic factors was, however, greatly reinforced by the use in backward countries of certain institutional instruments and the acceptance of specific industrialization ideologies. Some of these specific factors and their mode of operation on various levels of backwardness are discussed in the following sections.

THE BANKS

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The history of the Second Empire in France provides rather striking illustrations of these processes. The advent of Napoleon III terminated a long period of relative economic stagnation which had begun with the restoration of the Bourbons and which in some sense and to some extent was the result of the industrial policies pursued by Napoleon I. Through a policy of reduction of tariff duties and elimination of import prohibitions, culminating in the Cobden-Chevalier treaty of 1860, the French government destroyed the hothouse in which French industry had been kept for decades and exposed it to the stimulating atmosphere of international competition. By abolishing monopoly profits in the stagnating coal and iron produc-

tion, French industry at length received profitable access to basic industrial raw materials.

To a not inconsiderable extent, the industrial development of France under Napoleon III must be attributed to that determined effort to untie the strait jacket in which weak governments and strong vested interests had inclosed the French economy. But along with these essentially, though not exclusively, negative policies of the government, French industry received a powerful positive impetus from a different quarter. The reference is to the development of industrial banking under Napoleon III.

The importance of that development has seldom been fully appreciated. Nor has it been properly understood as emanating from the specific conditions of a relatively backward economy. In particular, the story of the Crédit Mobilier of the brothers Pereire is often regarded as a dramatic but, on the whole, rather insignificant episode. All too often, as, for instance, in the powerful novels of Emile Zola, the actual significance of the developments is almost completely submerged in the description of speculative fever, corruption, and immorality which accompanied them. It seems to be much better in accord with the facts to speak of a truly momentous role of investment banking of the period for the economic history of France and of large portions of the Continent.

In saying that, one has in mind, of course, the immediate effects of creating financial organizations designed to build thousands of miles of railroads, drill mines, erect factories, pierce canals, construct ports, and modernize cities. The ventures of the Percires and of a few others did all that in France and beyond the boundaries of France over vast areas stretching from Spain to Russia. This tremendous change in economic scenery took place only a few years after a great statesman and a great historian of the July monarchy assured the country that there was no need to reduce the duties on iron because the sheltered French iron production was quite able to cope with the iron needs of the railroads on the basis of his estimate of a prospective annual increase in construction by some fifteen to twenty miles.

But no less important than the actual economic accomplishments of a few men of great entrepreneurial vigor was their effect on their environment. The Crédit Mobilier was from the beginning engaged

in a most violent conflict with the representatives of "old wealth" in French banking, most notably with the Rothschilds. It was this conflict that had sapped the force of the institution and was primarily responsible for its eventual collapse in 1867. But what is so seldom realized is that in the course of this conflict the "new wealth" succeeded in forcing the old wealth to adopt the policies of its opponents. The limitation of old wealth in banking policies to flotations of government loans and foreign-exchange transactions could not be maintained in the face of the new competition. When the Rothschilds prevented the Pereires from establishing the Austrian Credit-Anstalt, they succeeded only because they became willing to establish the bank themselves and to conduct it not as an old-fashioned banking enterprise but as a crédit mobilier, that is, as a bank devoted to railroadization and industrialization of the country.

century onward. The number of banks in various countries shaped of the basic idea of the Pereires and its incorporation in the new type upon the image of the Percire bank was considerable. But more tive effect of the Pereires that profoundly influenced the history of in Belgium, Germany, and France herself. But it was the great erup points out the direction of the most far-reaching effects of the serve as a source of short-term capital and a bank designed to finance the long-run investment needs of the economy there was a complete countries on the Continent, became the dominant form of banking, of bank, the universal bank, which in Germany, along with most other Continental banking in Europe from the second half of the past Crédit Mobilier. Occasional ventures of that sort had been in existence mercial banks in the advanced industrial country of the time (Eng important than their slavish imitations was (the creative adaptation gulf. The German banks, which may be taken as a paragon of the land) was absolute. Between the English bank essentially designed to credit mobilier with the short-term activities of commercial banks. The difference between banks of the crédit-mobilier type and comtype of the universal bank, successfully combined the basic idea of the This conversion of the old wealth to the creed of the new wealth

They were as a result infinitely sounder financial institutions than the Crédit Mobilier, with its enormously swollen industrial portfolio, which greatly exceeded its capital, and its dependence on favorable

But the German banks, and with them the Austrian and Italian banks, established the closest possible relations with industrial enterprises. A German bank, as the saying went, accompanied an industrial enterprises from the cradle to the grave, from establishment to liquidation throughout all the vicissitudes of its existence. Through the device of formally short-term but in reality long-term current account credits and through development of the institution of the supervisory boards to the position of most powerful organs within corporate organizations, the banks acquired a formidable degree of ascendancy over industrial enterprises, which extended far beyond the sphere of financial control into that of entrepreneurial and managerial decisions.

It cannot be the purpose of this presentation to go into the details of this development. All that is necessary is to relate its origins and effects to the subject under discussion. The industrialization of England had proceeded without any substantial utilization of banking for long-term investment purposes. The more gradual character of the industrialization process and the more considerable accumulation of capital, first from earnings in trade and modernized agriculture and later from industry itself, obviated the pressure for developing any special institutional devices for provision of long-term capital to industry. By conthast, in a relatively backward country capital is scarce and diffused, the distrust of industrial activities is considerable, and, finally, there is greater pressure for bigness because of the scope of the industrialization movement, the larger average size of plant, and the concentration of industrialization processes on branches of relatively high ratios of capital to output. To these should be added the scarcity of entrepreneural talent in the backward country.

It is the pressure of these circumstances which essentially gave rise to the divergent development in banking over large portions of the Continent as against England. The continental practices in the field of industrial investment banking must be conceived as specific instruments of industrialization in a backward country. It is here essentially that lies the historical and geographic locus of theories of economic development that assign a central role to processes of forced saving by the money-creating activities of banks. As will be shown presently, however, use of such instruments must be regarded as specific, not to back-

ECONOMIC BACKWARDNESS IN HISTORICAL PERSPECTIVE

ward countries in general, but rather to countries whose backwardness does not exceed certain limits. And even within the latter for a rather long time it was mere collection and distribution of available funds in which the banks were primarily engaged. This circumstance, of course, did not detract from the paramount importance of such activities on the part of the banks during the earlier industrialization periods with their desperate shortages of capital for industrial ventures.

The effects of these policies were far-reaching. All the basic tendencies inherent in industrial development in backward countries were greatly emphasized and magnified by deliberate attitudes on the part of the banks. From the outset of this evolution the banks were primarily attracted to certain lines of production to the neglect, if not virtual exclusion, of others. To consider Germany until the outbreak of World War I, it was essentially coal mining, iron- and steelmaking, electrical and general engineering, and heavy chemical output which became the primary sphere of activities of German banks. The textile industry, the leather industry, and the foodstuff-producing industries remained on the fringes of the banks' interest. To use modern terminology, it was heavy rather than light industry to which the attention was devoted.

Furthermore, the effects were not confined to the productive structure of industry. They extended to its organizational structure. The last three decades of the nineteenth century were marked by a rapid concentration movement in banking. This process indeed went on in very much the same way on the other side of the English Channel. But in Britain, because of the different nature of relations between banks and industry, the process was not paralleled by a similar development in industry.

It was different in Germany. The momentum shown by the cartelization movement of German industry cannot be fully explained, except as the natural result of the amalgamation of German banks. It was the mergers in the field of banking that kept placing banks in the positions of controlling competing enterprises. The banks refused to tolerate fratricidal struggles among their children. From the vantage point of centralized control, they were at all times quick to perceive profitable opportunities of cartelization and amalgamation of industrial enterprises. In the process, the average size of plant kept

growing, and at the same time the interests of the banks and their industry where cartelization opportunities were rife. assistance were even more than before devoted to those branches of

tively late arrival in the field of industrial development, that is to say, process, developed along lines not insignificantly different from those dustrial economy, because of specific methods used in the catching-up from having been preceded by England. But, as a result, German in-Germany thus had derived full advantages from being a rela

THE STATE

essentially different institutional instruments of industrialization. wardness appear in such an accentuated form as to lead to the use of for the European continent as a whole, and this for two reasons: (1) because of the existence of certain backward countries where no comamong the individual countries. But it certainly cannot be generalized Belgium, and in other countries, even though there were differences Austrian-Hungarian Empire, in Italy, in Switzerland, in France, in ments took place in Austria, or rather in the western sections of the parable features of industrial development can be discovered and (2) secause of the existence of countries where the basic elements of back-The German experience can be generalized. Similar develop-

The industrial development of Denmark may serve as an appropriate illustration. Surely, that country was still very backward as the nine-sudden spurts of industrialization and a sudden spurts of industrialization and a sudden spurts of industrialization. industries could be observed. The reasons must be sought, on the one iar response did not materialize because of the absence of the that were inherent in the proximity of the English market. The peculother hand, in the great opportunities for agricultural improvement hand, in the paucity of the country's natural resources and, on the

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Russia) may be considered as the clearest instance of the second type of country. The characteristic feature of economic conditions in came in the middle of the 1880s, that is to say, more than three Russia was not only that the great spurt of modern industrialization

> of economic development in Russia had been incomparably lower even more important was the fact that at the starting point the level decades after the beginning of rapid industrialization in Germany; than that of countries such as Germany and Austria.

tasks of the Russian government that were "modern" in the contemporaneous sense of the word and the hopelessly backward economy of Moscow into the huge land mass of modern Russia, the country became increasingly involved in military conflicts with the West. laxed (3) This mode of economic progress by fits and starts implied that, whenever a considerable upsurge of economic activities was renecessities were pressing and subsided as the military pressures reto the course of that development; it proceeded fast whenever military a function of military exigencies imparted a peculiarly jerky character sumed the role of the primary agent propelling the economic progress in the country. (2) The fact that economic development thus became result, the economic development in Russia at several important of the country on which the military policies had to be based. As a rial expansion, which over a few centuries transferred the small duchy of explanation may be in order. In the course of its process of territoof a curious mechanism of economic backwardness, and a few words 1861. In a certain sense, this very fact may be attributed to the play Russia was the preservation of serfdom until the emancipation of burdens imposed be evaded by escape to the frontier regions in the southeast and east (5) Precisely because of the magnitude of the sacrifices it required, the government had to subject the reductant generations whose lifespan happened to coincide with the period of quired, a very formidable burden was placed on the shoulders of the junctures assumed the form of a peculiar series of sequences: (1) This involvement revealed a curious internal conflict between the governmental exactions, a period of rapid development was very likely intensified development (4) In order to exact effectively the great pushed beyond the limits of physical endurance of the population and to give way to prolonged stagnation, because the great effort had been population to a number of severe measures of oppression lest the Basic was the fact that the state, moved by its military interest, aslong periods of economic stagnation were the inevitable consequences The main reason for the abysmal economic backwardness of

the state, agont propelling the emornic property.

The sequences just mentioned present in a schematic way a pattern of Russian economic development in past centuries which fits best the period of the reforms under Peter the Great, but its applicability is by no means confined to that period.

came a pure obligation toward the nobility and as such became by far as the obverse side of the processes of Westernization. Peter the Great of the population to levels more closely approaching those of the the Great, to adopt Western techniques, to raise output and the skills ously paradoxical course. While trying, as Russia did under Peter the most important retarding factor in Russia's economic development. development. What once was an indirect obligation to the state bement, peasant serfdom was divested of its connection with economic nobility emancipated itself from its service obligations to the governwithdrew from active promotion of economic development and the else he did succeed in making it effective. When in subsequent periods, did not institute serfdom in Russia, but perhaps more than anyone trammels of serfdom upon the Russian peasantry must be understood West, Russia by virtue of this very effort was in some other respects partly because of point 2 and partly because of point 5 above, the state thrown further away from the West. Broadly speaking, placing the What must strike the observer of this development is its cur-

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Readers of Toynbec's may wish to regard this process, ending as it did with the emancipation of the peasantry, as an expression of the "withdrawal and return" sequence. Alternatively they may justifiably prefer to place it under the heading of "arrested civilizations." At any rate, the challenge-response mechanism is certainly useful in thinking about sequences of that nature. It should be noted, however, that the problem is not simply one of quantitative relationship between the volume of the challenge and that of the response. The crucial point is that the magnitude of the challenge changes the quality of the response and, by so doing, not only injects powerful retarding factors into the economic process but also more likely leads to a number of undesirable noneconomic consequences. To this aspect, which is most relevant to the current problem of industrialization of backward countries, we shall advert again in the concluding remarks of this essay.

To return to Russian industrialization in the eighties and the nineties of the past century, it may be said that in one sense it can be

viewed as a recurrence of a previous pattern of economic development in the country. The role of the state distinguishes rather clearly the type of Russian industrialization from its German or Austrian counterpart.

Emancipation of the peasants, despite its manifold deficiencies, was an absolute prerequisite for industrialization. As such it was a negative action of the state designed to remove obstacles that had been earlier created by the state itself and in this sense was fully comparable to acts such as the agrarian reforms in Germany or the policies of Napoleon III which have been mentioned earlier. Similarly, the great judicial and administrative reforms of the sixties were in the nature of creating a suitable framework for industrial development rather than promoting it directly.

Western Europe, actions of this sort did not per se lead to an upsurge of individual activities in the country; and for almost a quarter of a century after the emancipation the rate of industrial growth remained relatively low. The great industrial upswing came when, from the middle of the eighties on, the railroad building of the state assumed unprecedented proportions and became the main lever of a rapid industrialization policy. Through multifarious devices such as preferential orders to domestic producers of railroad materials, high prices, subsidies, credits, and profit guaranties to new industrial enterprises, the government succeeded in maintaining a high and, in fact, increasing rate of growth until the end of the century/Concomitantly, the Russian taxation system was reorganized, and the financing of industrialization policies was thus provided for, while the stabilization of the ruble and the introduction of the gold standard assured foreign participation in the development of Russian industry.

The basic elements of a backward economy were, on the whole the same in Russia of the ninetics and in Germany of the fifties. But quantitatively the differences were formidable. The scarcity of capital in Russia was such that no banking system could conceivably succeed in attracting sufficient funds to finance a large-scale industrialization; the standards of honesty in business were so disastrously low, the general distrust of the public so great, that no bank could have hoped to attract even such small capital funds as were available, and no

and Witte is undeniable. Not only in their origins but also in their effects, the policies pursued by the Russian government in the nineamalgamations and coordinated policies among the industrial enter-prises which it ravored or had helped to create. Clearly, a good deal done, the great success of the policies pursued under Vyshnegradski accompanied the process was formidable. But, when all is said and corruption of bureaucracy were great. The amount of waste that needs of industrialization required the compulsory machinery of the government, which, through its taxation policies, succeeded in directto the rank of a general business practice. Supply of capital for the an economy where traudulent bankruptcy had been almost elevated bank could have successfully engaged in long-term credit policies in reaucracy was primarily interested in large-scale enterprises and in machinery production; like the banks in Germany, the Russian buattention was centered on output of basic industrial materials and on the government as an agens movens of industrialization discharged of the government's interest in industrialization was predicated upon its role in a far less than perfectly efficient manner. Incompetence and ing incomes from consumption to investment. There is no doubt that backwardness. the basic tendencies of industrialization in conditions of economic its military policies. But these policies only reinforced and accentuated Russian state did not evince any interest in "light industry." Its whole ties resembled closely those of the banks in Central Europe. The . government. XXX agans movers

ments used on the degree of backwardness of the country than a comparison of policies pursued within the two halves of the Austrianties in the situation and the dependence of actual institutional instru of industrialization. Originally, the government showed a considerable century the Hungarian government embarked upon vigorous policies of the banks proved altogether inadequate, and around the turn of the activities. But across the Leitha Mountains, in Hungary, the activities could successfully devote themselves to the promotion of industrial its Hungarian counterpart. Accordingly, in Austria proper the banks to, say, Germany, but it was at all times much more advanced than body. The Austrian part of the monarchy was backward in relation Hungarian monarchy, that is to say, within one and the same political Perhaps nothing serves to emphasize more these basic uniformi

> deflected from textile industries to promotion of heavy industries. and how the generous government subsidies were more and more to call the "logic of things," the basic uniformities asserted themselves instructive to watch how, under the pressure of what the French like interest in developing the textile industry of the region. And it is

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is to say, of the gradual diminution of backwardness. question remains as to the effects of successful industrializations, that said in the foregoing does not exhaust the pattern of parallels. The THE GRADATIONS OF BACKWARDNESS
To return to the basic German-Russian paradigm: what has been

of capital scarcity to which the German banks owed their historical enterprises could no longer be maintained. This process of liberation of industry from the decades of tutelage expressed itself in a variety of ways. Increasingly, industrial enterprises transformed connection with a single bank into cooperation with several banks. As the former sometimes was even reversed. so was the close relation between banks and industry, even though of industrialization in conditions of backwardness were to remain, and Many an industrial giant, such as the electrical engineering industry, barked upon the policy of changing alliances with regard to the banks industrial protectorates became economically sovereign, they em hood, the original undisputed ascendancy of the banks over industria came apparent in the relationship between German banks and German position were no longer present. Germany had become a developed which could not have developed without the aid and entrepreneurial industry. As the former industrial infants had grown to strong manindustrial country. But the specific features engendered by a process master-servant relation gave way to cooperation among equals and At the turn of the century, if not somewhat earlier, changes be

revolutionary years 1905-1906 and again achieved a high rate of trialization processes had changed greatly. Railroad construction by years of war and civil strife. But, when Russia emerged from the industrial growth in the years 1907-1914, the character of the industhe nineties was cut short by the 1900 depression and the following In Russia the magnificent period of industrial development of

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the government continued but on a much smaller scale both absolutely and even more so relatively to the increased industrial output. Certain increases in military expenditures that took place could not begin to compensate for the reduced significance of railroad-building. The conclusion is inescapable that, in that last period of industrialization under a prerevolutionary government, the significance of the state was very greatly reduced.

At the same time, the traditional pattern of Russian economic development happily failed to work itself out. The retrenchinent of government activities led not to stagnation but to a continuation of industrial growth. Russian industry had reached a stage where it could throw away the crutches of government support and begin to walk independently — and, yet, very much less independently than industry in contemporaneous Germany, for at least to some extent the role of the retreating government was taken over by the banks.

mercial banks had been founded. Since it was the government that had during the fifty years that had elapsed since the emancipation. Comof German banking. In short, after the economic backwardness of Russia had been reduced by state-sponsored industrialization processes, type of bank. Gradually, the Moscow deposit banks were overvanish, and the foundation was laid for the emergence of a different ingly Westernized. The paralyzing atmosphere of distrust began to accumulation increased, the standards of business behavior were grow posit banks," thus resembling very much the type of banking in Engbecause of the backwardness of the country, were organized as "defulfilled the function of industrial banks, the Russian banks, precisely shadowed by the development of the St. Petersburg banks that were use of a different instrument of industrialization, suitable to the new conducted upon principles that were characteristic not of English but land. But, as industrial development proceeded apace and as capital "stage of backwardness," became applicable. A great transformation had taken place with regard to the banks

IDEOLOGIES OF DELAYED INDUSTRIALIZATIONS

Before drawing some general conclusions, a last differential aspect of industrialization in circumstances of economic backwardness

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character of industrial developments and its institutional vehicles were related to conditions and degrees of backwardness. A few words remain to be said on the ideological climate within which such industrialization proceeded.

Again we may revert to the instructive story of French industrialization under Napoleon III. A large proportion of the men who reached positions of economic and financial influence upon Napoleon's advent to power were not isolated individuals. They belonged to a rather well-defined group. They were not Bonapartists but Saint-Simonian socialists. The fact that a man like Isaac Pereire, who contributed so much, perhaps more than any other single person, to the spread of the modern capitalist system in France should have been—and should have remained to the end of his days—an ardent admirer of Saint-Simonian doctrines is on the face of it surprising. It becomes much less so if a few pertinent relationships are considered.

It could be argued that Saint-Simon was in reality far removed from being a socialist; that in his vision of an industrial society he hardly distinguished between laborers and employers; and that he considered the appropriate political form for his society of the future some kind of corporate state in which the "leaders of industry" would exercise major political functions. Yet arguments of that sort would hardly explain much. Saint-Simon had a profound interest in what he used to call the "most numerous and most suffering classes"; more importantly, Saint-Simonian doctrines, as expanded and redefined by the followers of the master (particularly by Bazard), incorporated into the system a good many socialist ideas, including abolition of inheritance and establishment of a system of planned economy designed to direct and to develop the economy of the country. And it was this interpretation of the doctrines which the Pereires accepted.

It is more relevant to point to the stress laid by Saint-Simon and his followers upon industrialization and the great task they had assigned to banks as an instrument of organization and development of the economy. This, no doubt, greatly appealed to the creators of the Crédit Mobilier, who liked to think of their institution as of a "bank to a higher power" and of themselves as "missionaries" rather than bankers. That Saint-Simon's stress upon the role to be played by

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altogether "unutopian" — insight into the problems of that development is as true as the fact that Saint-Simonian ideas most decisively influenced the course of economic events inside and outside France. But the question remains: why was the socialist garment draped around an essentially capitalist idea? And why was it the socialist form that was so readily accepted by the greatest capitalist entrepreneurs France ever possessed?

It would seem that the answer must again be given in terms of basic conditions of backwardness. Saint-Simon, the friend of J. B. Say, was never averse to ideas of laissez-faire policies. Chevalier, the coauthor of the Franco-English treaty of commerce of 1860 that ushered in the great period of European free trade, had been an ardent Saint-Simonian. And yet under French conditions a laissez-faire ideology was altogether inadequate as a spiritual vehicle of an industrialization program.

To break through the barriers of stagnation in a backward country, to ignite the imaginations of men, and to place their energies in the service of economic development, a stronger medicine is needed than the promise of better allocation of resources or even of the lower price of bread. Under such conditions even the businessman, even the classical daring and innovating entrepreneur, needs a more powerful stimulus than the prospect of high profits. What is needed to remove the mountains of routine and prejudice is faith — faith, in the words of Saint-Simon, that the golden age lies not behind but ahead of mankind. It was not for nothing that Saint-Simon devoted his last years to the formulation of a new creed, the New Christianity, and suffered Auguste Comte to break with him over this "betrayal of true science." What sufficed in England did not suffice in France.

Shortly before his death, Saint-Simon urged Rouget de Lisle, the aged author of the "Marseillaise," to compose a new anthem, an "Industrial Marseillaise." Rouget de Lisle complied. In the new hymn the man who once had called upon "enfants de la patrie" to wage ruthless war upon the tyrants and their mercenary cohorts addresses himself to "enfants de l'industrie"—the "true nobles"—who would assure the "happiness of all" by spreading industrial arts and by submitting the world to the peaceful "laws of industry."

Ricardo is not known to have inspired anyone to change "God

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Save the King" into "God Save Industry." No one would want to detract from the force of John Bright's passionate cloquence, but in an advanced country rational arguments in favor of industrialization policies need not be supplemented by a quasi-religious fervor. Buckle was not far wrong when in a famous passage of his *History* he presented the conversion of public opinion in England to free trade as achieved by the force of incontrovertible logic. In a backward country the great and sudden industrialization effort calls for a New Deal in emotions. Those carrying out the great transformation as well as those on whom it imposes burdens must feel, in the words of Matthew Arnold, that

Comes the new age.

Capitalist industrialization under the auspices of socialist ideologies may be, after all, less surprising a phenomenon than would appear at first sight.

Similarly, Friedrich List's industrialization theories may be largely conceived as an attempt, by a man whose personal ties to Saint-Simonians had been very strong, to translate the inspirational message of Saint-Simonism into a language that would be accepted in the German environment, where the lack of both a preceding political revolution and an early national unification rendered nationalist sentiment a much more suitable ideology of industrialization.

After what has been just said it will perhaps not seem astonishing that, in the Russian industrialization of the 1890s, orthodox Marxism can be said to have performed a very similar function. Nothing reconciled the Russian intelligentsia more to the advent of capitalism in the country and to the destruction of its old faith in the mir and the artel than a system of ideas which presented the capitalist industrialization of the country as the result of an iron law of historical development. It is this connection which largely explains the power wielded by Marxist thought in Russia when it extended to men like Struve and in some sense even Milyukov, whose Weltanschauung was altogether alien to the ideas of Marxian socialism. In conditions of Russian "absolute" backwardness, again, a much more powerful

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ideology was required to grease the intellectual and emotional wheels of industrialization than either in France or in Germany. The institutional gradations of backwardness seem to find their counterpart in men's thinking about backwardness and the way in which it can be abolished.

CONCLUSIONS

The story of European industrialization in the nineteenth century would seem to yield a few points of view which may be helpful for appreciation of present-day problems.

- 1. If the spurtlike character of the past century's industrialization on the European continent is conceived of as the result of the specific preindustrial situations in backward countries and if it is understood that pressures for high-speed industrializations are inherent in those situations, it should become easier to appreciate the oft-expressed desires in this direction by the governments of those countries. Slogans like "Factories quick!" which played such a large part in the discussions of the pertinent portions of the International Trade Organization charter, may then appear less unreasonable.
- 2. Similarly, the tendencies in backward countries to concentrate much of their efforts on introduction of the most modern and expensive technology, their stress on large-scale plant, and their interest in developing investment-goods industries need not necessarily be regarded as flowing mainly from a quest for prestige and from economic megalomania.
- 3. What makes it so difficult for an advanced country to appraise properly the industrialization policies of its less fortunate brethren is the fact that, in every instance of industrialization, imitation of the evolution in advanced countries appears in combination with different, indigenously determined elements. If it is not always easy for advanced countries to accept the former, it is even more difficult for them to acquiesce in the latter. This is particularly true of the institutional instruments used in carrying out industrial developments and even more so of ideologies which accompany it. What can be derived from a historical review is a strong sense for the significance of the native elements in the industrialization of backward countries.

A journey through the last century may, by destroying what

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Bertrand Russell once called the "dogmatism of the untravelled," help in formulating a broader and more enlightened view of the pertinent problems and in replacing the absolute notions of what is "right" and what is "wrong" by a more flexible and relativistic approach.

It is, of course, not suggested here that current policies vis-à-vis backward areas should be formulated on the basis of the general experience of the past century without taking into account, in each individual instance, the degree of endowment with natural resources, the climatic disabilities, the strength of institutional obstacles to industrialization, the pattern of foreign trade, and other pertinent factors. But what is even more important is the fact that, useful as the "lessons" of the nineteenth century may be, they cannot properly be applied without understanding the climate of the present century, which in so many ways has added new and momentous aspects to the problems concerned.

effects of their specific preindustrial cultural development upon their of the past century a pattern of life that had been so strongly opposed time, past Russian experience does show how quickly in the last decades tural patterns has tended to come to rather pessimistic conclusions in namic perspective. At any rate, they do not deal with the individual this respect. But perhaps such conclusions are unduly lacking in dyindustrialization potentialities. Anthropological research of such cullargely concerns non-European countries, there is the question of the backward civilizations. Yet there are other problems. who stress so greatly the disabling lack of entrepreneurial qualities in preneurs with peasant-serf backgrounds should give pause to those ferent attitudes. In particular, the rapid emergence of native entre nomic activity as unnatural and sinful, began to give way to very dif to industrial values, that tended to consider any nonagricultural ecofactors involved in terms of their specific changeabilities. At the same Since the present problem of industrialization of backward areas

In certain extensive backward areas the very fact that industrial development has been so long delayed has created, along with unprecedented opportunities for technological progress, great obstacles to industrialization. Industrial progress is arduous and expensive; medical progress is cheaper and easier of accomplishment. To the ex-

tent that the latter has preceded the former by a considerable span of time and has resulted in formidable overpopulation, industrial revolutions may be defeated by Malthusian counterrevolutions.

Closely related to the preceding but enormously more momentous in its effects is the fact that great delays in industrialization tend to allow time for social tensions to develop and to assume sinister proportions. As a mild example, the case of Mexico may be cited, where the established banks have been reluctant to cooperate in industrialization activities that are sponsored by a government whose radical hue they distrust. But the real case in point overshadowing everything else in scope and importance is, of course, that of Soviet Russia.

If what has been said in the preceding pages has validity, Soviet industrialization undoubtedly contains all the basic elements that were common to the industrializations of backward countries in the nine-teenth century. The stress on heavy industry and oversized plant is, as such, by no means peculiar to Soviet Russia. But what is true is that in Soviet Russia those common features of industrialization processes have been magnified and distorted out of all proportion.

success of the Russian Revolution, would never have assumed disas-1825, the peasant discontent, the driving force and the earnest of country's economic backwardness. Had serfdom been abolished by Soviet government can be properly described as a product of the tion in the course of which the power fell into the hands of a dictais a "grounded historical assumption," this would seem to be one would have proceeded in a much more gradual fashion. If anything trous proportions, while the economic development of the country at its disposal, it would be naive to believe that those instruments of population was opposed. It is one thing for such a government to gair torial government to which in the long run the vast majority of the the delayed industrial revolution was responsible for a political revoluin power only if it succeeds in making people believe that it performs physical oppression can suffice. Such a government can maintain itself ubiquitousness of the secret police which such a government may have for a long period. Whatever the strength of the army and the power in a moment of great crisis; it is another to maintain this power The problem is as much a political as it is an economic one. The

an important social function which could not be discharged in its absence.

of war have become inextricably intertwined in Soviet Russia. for future generations and — much more importantly — by the men-ace of military aggression from beyond the borders, the dictatorial and the population is undeniable. But, paradoxical as it may sound trialization, ruthless exercise of dictatorial power, and the danger on the part of the people. If all the forces of the population can be resulted in permanent day-to-day friction between the government history of the cold-war years. Economic backwardness, rapid indus dication of a threatening war is easily produced, as is shown by the government will find its power broadly unchallenged. And the vintrialization can be justified by the promise of happiness and abundance kept engaged in the processes of industrialization and if this indus these policies at the same time have secured some broad acquiescence policies, after having led through a period of violent struggles, have ing on the consent of the governed could have done. That these stituting collectivization for seridom, and by pushing up the rate of that direction. By reverting to a pattern of economic development ment. All the basic factors in the situation of the country pressed in the population, the Soviet government did what no government relyinvestment to the maximum point within the limits of endurance of that should have remained confined to a long-bygone age, by sub-Industrialization provided such a function for the Soviet govern

This is not the place to elaborate this point further with regard to Soviet Russia. The problem at hand is not Soviet Russia but the problem of attitudes toward industrialization of backward countries. If the Soviet experience teaches anything, it is that it demonstrates ad oculos the formidable dangers inherent in our time in the existence of economic backwardness. There are no four-lane highways through the parks of industrial progress. The road may lead from backwardness to dictatorship and from dictatorship to war. In conditions of a "bipolar world" this sinister sequence is modified and aggrandized by deliberate imitation of Soviet policies by other backward countries and by their voluntary or involuntary incorporation in the Soviet orbit.

Thus, conclusions can be drawn from the historical experience of both centuries. The paramount lesson of the twentieth century is

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They are just as much problems of the advanced countries. It is not only Russia but the whole world that pays the price for the failure to emancipate the Russian peasants and to embark upon industrialization policies at an early time. Advanced countries cannot afford to ignore economic backwardness. But the lesson of the nineteenth century is that the policies toward the backward countries are unlikely to be successful if they ignore the basic peculiarities of economic backwardness. Only by frankly recognizing their existence and strength, and by attempting to develop fully rather than to stifle what Keynes once called the "possibilities of things," can the experience of the nineteenth century be used to avert the threat presented by its

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Reflections on the Concept of "Prerequisites" of Modern Industrialization

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The concept of historical prerequisites of modern industrialization is a rather curious one. Certain major obstacles to industrialization must be removed and certain things propitious to it must be created before industrialization can begin. Both in its negative and its positive aspects, the concept seems to imply, if not the historical inevitability of industrialization, at least the notion that it must proceed in a certain manner; that is to say, through certain more or less discrete stages. Along with it goes the idea of the uniformity of industrial development in the sense that every industrialization necessarily must be based on the same set of preconditions. What is meant, of course, is not the common-sense notion that in order to start an industrial plant certain very concrete things are needed. The concept refers to long-run historical changes.

It would be easy to reject the concept out of hand as a classic example of historical determinism and to leave it at that. This, however, might be regrettable. To be sure, determinism, historical or other, is beyond the boundary line that circumscribes scientific endeavors. It is quite possible that complete knowledge of the world would reveal to us that every event has been inevitably preordained. It may not reveal that at all. How can we know what we would know if we knew? At the same time, however, we cannot approach historical reality except through a search of regularities and deviations from regularities, by conceiving events and sequences of events in terms of