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Introduction

The controversy surrounding Latin American industry in the 1980s, at a time of deep and prolonged economic crisis, has been strongly influenced by three very significant events. In outline, the first of these is related to the growing frustration felt with the results of the industrialization process during preceding decades; the second has to do with the re-opening of the debate concerning the informal economy, the micro-entrepreneurial phenomenon, public policies and the role of the State apparatus; and the third event is the sweeping technological change which is now taking place in the advanced countries' systems of production.

The challenge represented by the need to restructure industry in the countries of the region is a broad-ranging one. In the short run, such a reorganization ought to contribute to an expansionary adjustment of the economy which, in the longer term, will permit a successful articulation with strategies for redirecting development and make it possible for the region to assume an appropriate position in the new international context. This restructuring should not only help to overcome the longstanding disequilibria and asymmetries exhibited in so many different forms in the societies, economies and institutions of the Latin American nations, but should also take into account those external conditions which have taken shape most recently, such as the trends in the international economy, technological changes, the sharpening of competition and the dwindling flow of external financing.

As the situation in these economies becomes increasingly difficult, the use of small and medium-scale production units is fast becoming an option as one basic component of a new style of industrialization. Given the existence of widespread resource constraints, the explosive growth of the informal economy and of unemployment, the disarticulation of markets, the inflexibility of various aspects of the production structure and the uncertain nature of entrepreneurial leadership, it is understandable that small and medium-scale industry (SMI) holds an irresistible attraction for a wide circle of analysts, politicians and planners.
Nonetheless, there is also an enormous gap between the hopes placed in this type of productive organization and the available evidence concerning its real potentials. The current thinking as regards SMI in Latin America is, in our opinion, seriously flawed in that it relies on ambiguous conceptual underpinnings and makeshift descriptive and quantitative bases.

The authors' aim in preparing this article is to help realign the debate concerning SMI in Latin America, provide new inputs and clear up some common points of confusion. To this end, the article takes an exploratory tack in three directions. These are, firstly, the suggestion of an analytical framework for analysing SMI from the standpoint of industrial policy; secondly, the compilation and analysis of the evidence pertaining to some industrialized countries and to the Latin American region, with particular reference to Brazil, Colombia and Chile; and thirdly, the identification of the most promising prospects for Latin America in the light of both the successful experiences of other countries (Japan and Italy) and the region's unique features and potentials with respect to industrial development.

I

Contemporary thought concerning SMI

In the developing countries, the debate concerning small-scale production was re-opened by the publication of an International Labour Organization study on Kenya in the early 1970s (I.L.O., 1972). Since then, many more research projects have been done on the role of small and medium-scale enterprises and the impact they have on economic systems. These analyses, whether empirical or theoretical, have concentrated on describing the relationships between small and medium-scale enterprises and the other components of the economic system, the economic characteristics and behaviour of these production units and the obstacles that have held back their development (Schmitz, 1982). Yet the debate is still going on, and it comes as no surprise that many opinions and results appear to contradict one another.

How small and medium-scale enterprises are defined and what possible role they are seen as playing in economic development particularly within the industrial sector, are closely related to the characteristics of the economic system concerned. This article focuses on small and medium-scale industrial enterprises (SMIs), their role in the industrialized countries and the potentials they exhibit in the case of the developing nations. Finally, a paradigmatic definition of small and medium-scale industrial enterprises will be proposed, and it is this definition which will be referred to throughout the article.

With regard to such a definition, it should be noted that the real indicators and variables which are actually used for the classification of firms are not the most appropriate ones for describing the characteristics of a productive organization. There is, inevitably, a gap between the qualitative description and the quantification of business enterprises. The standard of measurement of the variables used to identify real enterprises needs to be simple and easily verifiable, as well as being based on suitable statistical sources. Since in real life it is an accepted fact that it is impossible to measure easily and fully all the identifying characteristics of a firm, analysts have opted for simple variables, such as the number of employees, the value of fixed capital or total sales.

In this article the following classification will be used: i) micro-enterprise: 10 or fewer employees; ii) small enterprise: 10-49 employees; iii) medium-scale enterprise: 50-99 employees; iv) large enterprise: 100 workers or more.  

1Among the more comprehensive earlier works, see Staley and Murse (1968) and Moselio (1959).

2On the basis of this classification, many industries which are categorized as SMI in developed countries with large markets may
1. The role of SMI in industrialized countries

In the industrialized countries, the articulation existing among the various developmental actors is quite solid and permits a relatively more even blending of the economic performance of each part of the system, as well as ensuring its dynamism. In such economies, SMI is generally an integrated part of the industrial system. Analyses of the situation in the industrialized countries may be said to have arrived at some degree of consensus.

The characteristics and potentials of SMI as regards the development of a given economic system have been discussed by various authors. In this article, however, the discussion will be confined to only those major spheres in which SMI has played a significant role: dynamizing the production structure, technological progress and social development.

SMIs are generally more flexible than larger units thanks to the greater ease with which they are able to adjust their use of the factors of production to market conditions. This is particularly true in the case of labour. For a variety of institutional reasons, it is easier for very small units to hire and dismiss personnel. In the remaining cases, the small numbers involved lessen the social reaction and any labour union action in response to dismissals, as well as the risk that bottlenecks may affect staff recruitment. They are also able to use capital more flexibly, since the absolute values involved are such as to permit swift decision-making; furthermore, SMIs can make use of a broader range of production techniques and equipment (i.e., second-hand machinery) since in their case the cost of adaptation is low. These enterprises are also flexible as regards demand; SMIs usually deal in small markers or market segments, and this allows them to meet any variations in demand with appropriate speed.

The technological development of an industrial system consists of innovations (in the processes used, the product concerned or the form of organization) and their dissemination. It is difficult, however, to set our parameters for identifying an individual production unit's contribution to the technological development of an overall system, and this, in the authors view, is one of the obstacles to the achievement of a general agreement as to the correct interpretation of the situation on an empirical basis. Nonetheless, in a number of cases the effective capacity of SMI for technological innovation has been demonstrated. There does appear to be a consensus, however, as to the fact that SMI does play a highly important role in the dissemination of technology and in new technologies developed on the basis of advances in microelectronics and information sciences.

In regard to the United Kingdom, see Fawcett, Robson and Townsend (1987). After analysing 4,000 “significant” innovations made in the United Kingdom between 1945 and 1983, the authors found that the coefficient of innovations/employees was above the average in enterprises having fewer than 500 employees and in those having more than 10,000 employees. Firms with 100-199 employees had the highest ratio between their proportion of innovations and their share of employment in industry. The results are more significant at a greater level of sectoral disaggregation. Cohen, Levin and McIver (1987) analysed the intensity of research and development in the United States. They concluded that the size of the firm involved in these activities has no statistically significant effect on R & D intensity, but that firm size did affect the probability that such activities would be undertaken. In regard to Italy, see ECLAC (1988), which underscores the important contribution made by SMI to technological progress, particularly in the field of process-related innovations.

Regarding the role of SMI in the development of technology in the OECD countries, see OECD (1987). Concerning the spread of technologies to the industrial system and decentralized systems of technological development, see Schott (1986). A great deal of literature is available on the subject of new technologies. The topics of the minimum scale of production and technical efficiency have also been the subject of recurrent importance; see, inter alia, Jacobsson and Sigurdsson (1983), Jacobsson (1985), Bhalla and Dilman (1986), Pérez (1983) and Kaplinsky (1983 and 1985).
Finally, the role of SMI in social development should be mentioned. The existence of broad networks of small and medium-scale enterprises in Italy and Japan, for example, has strengthened their socioeconomic articulation and social cohesiveness. In Italy, the spread of SMI and the characteristics of this process have permitted a good distribution of industrialization, a low level of concentration in urban areas, the maintenance of some degree of social equilibrium during the process of economic change and a certain measure of institutional stability.9 In Japan, the existence of an SMI structure which is particularly well integrated with that of large firms has facilitated a smooth process of economic development and has created the conditions necessary for the social changes needed in the country.

2. SMI in developing countries

The potentials and performance of SMI in developing countries have been much analysed; these studies have, however, arrived at what are often contradictory conclusions.10

The existing literature highlights the role of SMI in the economic and social spheres. As regards the former, SMI has been characterized as highly labour-intensive, flexible in responding to changes in the market and in technologies, energy-efficient and capable of taking advantage of local abilities and materials. It has also been stated that SMI contributes to a more equitable distribution of income, to a higher rate of saving and reinvestment, and to the integration of the industrial structure. In relation to the social sphere, SMI has been portrayed as making a fundamental contribution to economic democracy by promoting social re-articulation and participation, as fostering entrepreneurship, narrowing the gap between the small cottage industries of the informal economy and large firms, and constituting an efficient mechanism for the deconcentration of ownership.11

Others, however, have taken more cautious positions and have sought to ascertain the actual scope of SMI and the accuracy of the above assertions.

Their doubts concerning the economic performance of SMI are focused on three areas.12 The first of these is the production efficiency of SMI. All the studies which have been done agree that the labour productivity of SMI is considerably lower than that of large firms. Nonetheless, some analysts assert that there may be economically efficient technologies or combinations of factors which could raise the productivity of SMI. The debate on this point encompasses the entire and much-discussed subject matter of the influence of prices on the choice of production technologies, the distortion of the prices of factors of production and the elasticity of substitution between capital and labour (Ahluwalia, 1974). The question as to the degree of efficiency of SMI is not without importance, particularly in view of the existing constraints on resources for development (Little, 1987; Anderson, 1982).13

The second area of doubt, which is conceptually related to the above, concerns the supposedly greater labour-intensiveness of the technologies used by SMI. Studies have been done which demonstrate, at an aggregate level, that small firms make a greater use of labour in relation to capital. However, other research projects based on disaggregated analyses of the capital/labour ratio or the output ratio have concluded that in many cases SMI makes a greater use of capital per unit of output and per worker.14 While we will not go into all the criticisms which have been directed at the theoretical...
SMALL AND MEDIUM-SCALE INDUSTRY AND LATIN AMERICA / M. Castillo and C. Cortellini

assumptions underlying these approaches, two points should be taken into account: firstly, that the factors of production are not always uniform, and hence in certain cases SMI may use some factors which would otherwise go unused; and, secondly, that microeconomic analyses should also cover all the other elements, in addition to labour and capital, which go into the production of goods, particularly management and organization (White, 1978, p. 39; Stewart, 1977).

Finally, some analysts also question the purportedly dynamic nature of the part played by SMI in technological progress. In this regard, it must be assumed that the evidence drawn from the experiences of industrialized countries holds true, inasmuch as the specialized literature does not contain analyses of specific cases in respect of developing nations. This lack notwithstanding, it is worthwhile noting that SMI may be of importance in the deployment of entrepreneurial capabilities and in the dissemination of techniques through the process of "learning by doing".

In the authors' opinion, the existence of various characterizations of the actual contribution to development made by SMI is due to the fact that both the economic and social efficiency of SMI, as well as the role it may play, depends upon the socioeconomic context. The uniqueness of each situation and economic and social system militates against the applicability of categorical statements in this respect.

The second problem relates to the great variety of different definitions, both from a conceptual standpoint and in terms of the unit of analysis. The aggregate referred to as "SMI" encompasses a number of categories and concepts which describe intersecting situations and structures which are virtually impossible to dissociate from one another.

The basic problem comes down to being one of clearly specifying precisely what type of enterprise is being referred to when discussing the potentials and role of SMI in economic development and when designing policies to promote SMI.

3. The need for a clear definition of the concepts involved

In the debate concerning SMI, categories for which no explicit definitions are generally given are used to describe opposing structural situations. Thus, use is made of terms such as informal and formal, traditional and modern, urban and rural, small and large-scale enterprise. A classification based on types of firms necessarily involves a consideration of some qualitative features. These characteristics stem from the way in which the production activity is structured, and the analysis of this structure may be undertaken from the standpoint of either the firm's internal organization or its external relations.

In the latter case, it is important to consider the firm's market relations, those it establishes with other production units, its relationship to the socioeconomic context, and the strategy involved.

Business enterprises establish relationships with markets in order to sell their products and to buy factors of production and inputs. In most developing countries, the markets for factors of production and inputs are either traditional or formal, and as such, do not cover all the other elements, in addition to labour and capital, which go into the production of goods, particularly management and organization (White, 1978, p. 39; Stewart, 1977).

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production are highly segmented. Thus, in the labour market there are segments of supply which may be of no more than marginal interest to large enterprises: the female labour force, unskilled manpower, young people, immigrants, etc. The capital market is relatively oligopolistic: intermediation between the supply and demand for capital is not a free-flowing process (as is also true of the availability of information) and depends on an organization which sometimes overvalues risk. The markets for the sale of products are also quite heterogeneous. One differentiating factor is the scope and distance of the markets, which may be either local and restricted or more extensive, and either national or international. Another factor influencing the segmentation of demand is the income level of consumers, since this dictates the characteristics of the products required.

The relations which firms have with the other economic actors and their relationship to the socioeconomic context determine the way in which production is organized. An enterprise's relations with other firms may be competitive, complementary or based on subcontracting and may either involve a high degree of economic and strategic dependence (directly, as in the case of subcontracting, or indirectly, in respect of which entity sets prices) or take the form of relations between autonomous units. The types of relations established with the State and its institutions, with the economy and with the society vary from one enterprise to another. These firms may occupy a position within the prevailing legal system, take advantage of benefits and fulfill duties defined by the State, or may operate outside the system. They may utilize the natural resources and some characteristics of the local markets to a greater or lesser extent and, finally, may either become deeply involved in the social environment and so take advantage of the local characteristics of the labour force or some cultural traditions, or may remain uninvolved in this respect.

As regards corporate strategies, a firm may have as its objective the maximization of total income, rather than aspiring to a level of profit such as that defined in capitalist terms (Tokman, 1987) or may adopt a survival strategy by which it seeks to maintain a minimum income (Cornia, 1987). It may also strive to increase its scale of production or simply to maintain the existing one. In addition, corporate strategies are differentiated by the time period they cover. The decisions taken in these respects will have an important influence on the way in which production is organized.

An enterprise's form of internal organization is determined by the functions it performs and by the relationships that exist among factors of production. The functions of managing and directing an enterprise may be performed by a unit composed of professionals and/or by the entrepreneur, and may entail differing levels of complexity. The relationship between a firm's management and its workers and employees may be one of collaboration, thereby allowing for different degrees of information exchange and of the integration of capabilities, or may be markedly hierarchical or personalized. Finally, the capital/labour ratio may be of differing levels according to the composition of production, of the financial resources invested and of the

20Tokman (1987) provides a comprehensive review of the debate concerning the relationship between the characteristics of these enterprises and markets for factors of production.

21This subject is a very broad one and warrants a study of its own. There is no agreement as to the nature of these relations. Some experts think that a dependent relationship exists among these units similar to that seen between industrialized and developing countries, while others assert that it is possible (and in fact has occurred) for micro-enterprises to maintain autonomous relations with larger enterprises. Still others argue that some type of complementarity is feasible. See Tokman (1978), Seel and Takagi (1983) and Bayce (1984). For a review of these subjects, see Tokman (1987). This subject involves considerations relating to market characteristics, corporate strategies, trends during different periods of the economic cycle, etc.

22Another aspect of corporate strategy relates to a firm's position in the markets where it sells its products. This topic is relevant to the definition of an SMI "paradigm", but is too extensive to examine in detail here. Nonetheless, mention, may be made of a few of the opinions held on the subject. In particular, there are those who believe that SMIs may position themselves in interstices of markets which large enterprises have abandoned because they are of no interest to them (Tokman, 1978; Bayce, 1984) and those who feel that—depending upon the branch of production involved, the quality of the enterprise and the organization of the market in question—SMIs may be able to compete with large enterprises even when the respective products are not entirely substitutable for one another (Seel and Takagi, 1983).
techniques used (Staley and Morse, 1968, chap. I).

In summary, when viewed from the standpoint of their internal organization, firms may be classified according to the following scheme (only the most commonly-used terms are included here, rather than all the relevant terminology):

<table>
<thead>
<tr>
<th>Household production system</th>
<th>Cottage-based production system</th>
<th>Dispersed production system</th>
<th>Factory system</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Workshop-based industry</td>
<td>5. Small cottage-based industry</td>
<td>7. Medium-scale factory</td>
<td>8. Large factory</td>
</tr>
<tr>
<td>9. Independent or quasi-dependent workshop</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

One useful distinction is that of small, medium-scale and large enterprises. This classification cannot be rigid, but it should refer to some of the elements which have been described in the literature as being characteristic of firms of different sizes.

According to this scheme, small enterprises are those which, insofar as their internal organization is concerned, correspond to number 6, although they may display some of the features attributed to number 5. In these cases, the owner performs all (or a large part) of the activities involved in the management of the firm, and the enterprise's success is therefore closely linked to his entrepreneurial capabilities. The capital/labour ratio is low, although it varies according to the branch of production concerned, and the firm maintains a high level of technological flexibility. As regards their external relations, these enterprises normally choose nearby markets for the sale of their products, although they may achieve national coverage or even export (in this case too, past experience indicates that the potentials depend on the branch of production involved). Generally speaking, the objective of a small enterprise's strategy is not growth in terms of a more complex organization and a larger scale of production. The form of ownership is predominantly individual or that of a simple partnership.

The basic difference between a medium-scale enterprise and a small firm is one of strategy, in that the former seeks to increase its scale of production and broaden its markets. In a medium-scale enterprise, managerial functions are usually performed by more than one person, and its form of organization is necessarily more complex. Nonetheless, these units do maintain a certain degree of flexibility with respect to production.

A large enterprise is an industrial structure of a relatively large scale whose operational organization is diversified into specific units; its ownership structure is generally complex, and its organization of manpower is based on the division of labour. The strategy of such an enterprise is similar to that referred to in economic terminology as that of oligopoly or of imperfect competition, and it is usually active on national and international markets.

In the light of the above, the validity of some of the "adjectives" normally used to define SMI may be determined.

One aspect to be considered in this regards is the formal/informal dichotomy. An informal enterprise is characterized by "a rudimentary organization, lacking any clear-cut division of labour or of the ownership of the means of production; indeed, very little capital is committed and few skills are required. As regards its position in the market, it has ready access to competitive markets and to the ground level of concentrated markets; in these markets, because of the possibility of competition, average income is the adjustment variable. Given the limited size.

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23These elements are manifested in various concrete ways, including the form of ownership, which has a significant influence on the organization of production. Other differentiating factors relate to technology, which may be traditional and thus similar to that used in generations past, or modern and thus closer to the technological "frontier". Another factor is the firm's efficiency or lack thereof, which is not necessarily related to its modernity or traditionality, since depending on the branches of production and markets involved, there may be traditional technologies which are also efficient.

24See Evans (1987) and Kumar (1985). The authors agree that the rates of growth of small production units vary widely. However, this tendency disappears as the size of the firms in question increases. In any event, the relationship between firm size and growth is linked to the economy's stage of development.
of the market, the greater the surplus of man­
power, the lower the income earned by each
person working in the sector" (Tokman, 1987).
These enterprises' objective is to maximize
income, and they tend to adopt a survival stra­
tegy (Cornia, 1987). However, this definition
covers micro-enterprises as well, despite the fact
that such firms are registered in censuses and
maintain "formal" relations with markets and
with the socioeconomic context. Enterprises are
regarded as "informal" if they do not maintain
relations with the State because they are
attempting to evade, either totally or partially,
the legal regulatory system of taxation.25
Finally, enterprises may be either modern or
traditional. Generally, there is an implicit
assumption that an enterprise is modern if it
utilizes high technology and that large enter­
prises are modern while micro- and small enter­
prises are traditional. Nevertheless, many
studies have been done which demonstrate the
existence of large enterprises that use traditional
technologies and of small enterprises that are in
the technological vanguard. Moreover, the
modernity of an enterprise is measured not only
in terms of the technologies it employs, but also
on the basis of the way in which its production is
organized, the dynamism of the relations it
establishes with the economy and the activeness
of its role in the industrial development of a
system.
The basic hypothesis proposed in this study
is that a balanced industrial system is made up of
enterprises of differing types and sizes and that
modern SMI is a good means of making that
system more dynamic and of improving its inter­
nal articulation. Industrial policy should there­
fore take into account the functional differences
among the various types of enterprises. In this
article, consideration is given to that segment of
SMI composed of modern enterprises or firms
with the potential to undertake a modernization
process.26
For our purposes here, SMI will be defined
in terms of the number of employees, since this
indicator is easy to use and makes it possible to
identify production units with a scale of produc­
tion which is linked to an organization's level of
complexity. This method of defining SMI
undoubtedly fails to include all the variables
specified above; nevertheless, it does provide a
valid indicator for evaluating policy efficiency
and studying the evolution of an industrial
system.

II
SMI in Latin America

1. SMI in the countries of
Latin America and the OECD

SMI has traditionally been an important part
of the industrial structure of many countries, where
it has represented more than 40% of total
employment (see table 1). Hence the interest
this subject has aroused in the ongoing debate
concerning industrial policy and economic
development.

25 These are without question the enterprises which are most
frequently referred to when micro-enterprises are under consider­
ation. The role of the State in the economy is of enormous impor­
tance in regard to the definition of policies and strategic options,
but it is not a subject which can be analysed in this article. However,
a critical reading of the research project on Peru conducted by De
Soto (1987) is recommended to the reader.

26 Certainly, in many developing countries enterprises having
a limited scale of production are for the most part inefficient and
technologically behind-the-times, but these are not inevitable char­
acteristics of SMI. There are cases of industrial development in
which SMI is in no way "outshaded" by large enterprises in
terms of productivity, technical efficiency and dynamism. Further­
more, when speaking of industrial policy, only those enterprises
are regarded as being useful for development which are in a
position to promote it and, thus, assistance programmes for "inef­
ficient and non-dynamic" SMI pursue social and employment
objectives rather than the dynamization of the industrial system.
Table 1
SHARE OF SMI IN FORMAL INDUSTRIAL EMPLOYMENT, BY FIRM SIZE
BASED ON NUMBER OF EMPLOYEES
(Percentages)

<table>
<thead>
<tr>
<th>Country</th>
<th>Years</th>
<th>Under 10</th>
<th>Under 100</th>
<th>Under 200</th>
<th>Under 500</th>
<th>Employment (thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Industrialized countries</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Republic of Germany</td>
<td>1984</td>
<td>18.0</td>
<td>30.0</td>
<td>50.0</td>
<td>8,614</td>
<td>5,005</td>
</tr>
<tr>
<td>Belgium</td>
<td>1982</td>
<td>45.7</td>
<td></td>
<td></td>
<td>72.7</td>
<td>5,005</td>
</tr>
<tr>
<td>Denmark</td>
<td>1976</td>
<td></td>
<td></td>
<td></td>
<td>44.6</td>
<td>7,380</td>
</tr>
<tr>
<td>United States</td>
<td>1976</td>
<td>32.0</td>
<td></td>
<td></td>
<td>60.2</td>
<td>5,269</td>
</tr>
<tr>
<td>France</td>
<td>1972</td>
<td>39.0</td>
<td></td>
<td></td>
<td>60.4</td>
<td>5,269</td>
</tr>
<tr>
<td>Japan</td>
<td>1981</td>
<td>18.6</td>
<td>59.2</td>
<td>74.3</td>
<td>13,830</td>
<td>5,191</td>
</tr>
<tr>
<td>Italy</td>
<td>1981</td>
<td>23.0</td>
<td>69.4</td>
<td>80.4</td>
<td>5,191</td>
<td>984</td>
</tr>
<tr>
<td>Sweden</td>
<td>1978</td>
<td>40.7</td>
<td>59.2</td>
<td>86.7</td>
<td>5,269</td>
<td>115</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>1981</td>
<td>33.9</td>
<td></td>
<td>89.0</td>
<td>5,773</td>
<td>734</td>
</tr>
<tr>
<td><strong>Latin American countries</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Argentina</td>
<td>1984</td>
<td>19.6</td>
<td>55.6</td>
<td>74.3</td>
<td>4,918</td>
<td>7,477</td>
</tr>
<tr>
<td>Brazil</td>
<td>1980</td>
<td>10.8</td>
<td>46.0</td>
<td>65.7</td>
<td>80.4</td>
<td>4,918</td>
</tr>
<tr>
<td>Colombia</td>
<td>1984</td>
<td>18.0</td>
<td>46.5</td>
<td>76.6</td>
<td>54.6</td>
<td>4,918</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>1975</td>
<td>12.8</td>
<td>48.5</td>
<td>58.7</td>
<td>54.6</td>
<td>4,918</td>
</tr>
<tr>
<td>Chile</td>
<td>1984</td>
<td>15.0</td>
<td>53.6</td>
<td>86.7</td>
<td>54.6</td>
<td>4,918</td>
</tr>
<tr>
<td>Ecuador</td>
<td>1981</td>
<td>39.7</td>
<td>62.0</td>
<td>86.7</td>
<td>54.6</td>
<td>4,918</td>
</tr>
<tr>
<td>El Salvador</td>
<td>1976</td>
<td>73.7</td>
<td>65.7</td>
<td>86.7</td>
<td>54.6</td>
<td>4,918</td>
</tr>
<tr>
<td>Mexico</td>
<td>1975</td>
<td>16.6</td>
<td>58.0</td>
<td>89.0</td>
<td>54.6</td>
<td>4,918</td>
</tr>
<tr>
<td>Peru</td>
<td>1973</td>
<td>19.6</td>
<td>48.8</td>
<td>79.6</td>
<td>259</td>
<td>4,918</td>
</tr>
<tr>
<td>Uruguay</td>
<td>1978</td>
<td>15.0</td>
<td>51.0</td>
<td>81.0</td>
<td>259</td>
<td>4,918</td>
</tr>
<tr>
<td>Venezuela</td>
<td>1984</td>
<td>20.0</td>
<td>53.7</td>
<td>433</td>
<td>259</td>
<td>4,918</td>
</tr>
</tbody>
</table>


1. Does not cover firms having from 1 to 15 employees.
2. Does not cover firms having from 0 to 5 employees.
3. Does not cover firms having from 0 to 10 employees.
4. Does not cover firms having from 1 to 15 employees.

Japan, where SMI is an important part of the industrial structure; on the other hand, there is that of the Federal Republic of Germany and the United States, where the presence of SMI is significantly less notable and where there is a definite predominance of conglomerates which are highly diversified both horizontally and vertically. The use of indicators of participation in industrial activity brings out the difference in patterns of firm size even more clearly. Estimates for the early 1980s indicate that enterprises employing fewer than 200 people accounted for a 20% share of industrial sales in the Federal Republic of Germany, whereas in Italy such firms had a 65% share.27
The cases of the other industrialized countries represent a number of variations on these themes: the situation in the United Kingdom is fairly similar to that of the Federal Republic of Germany, while the experiences of France, Belgium, Denmark and Sweden are more like those of Japan and Italy. The data also indicate that industries employing more than 500 people accounted for over 50% of employment in the Federal Republic of Germany and the United States, whereas in Italy, Japan and Denmark the corresponding figure was less than 30%.

As in the case of the industrialized nations, a variety of situations are to be found in the countries of Latin America with the difference that in some of them the stratum of micro-enterprises is significant. On one side, there are the economies (such as El Salvador, Ecuador and, to a lesser extent, Peru) with a less developed industrial sector in which nearly one-half of total employment is in formal micro-enterprises (fewer than 10 employees). On the other, there are the more industrialized economies such as Brazil, Mexico, Colombia and Venezuela in which large enterprises (over 100 employees) account for an important share of employment (around 60% of all industrial jobs) and which thus exhibit a distribution pattern similar to that of the Federal Republic of Germany. A third category is made up of countries at an intermediate level of industrialization, and it is in these countries (the most notable examples being Chile, Argentina and Uruguay) that SMI carries the greatest relative weight.

The above facts, when considered in combination with the specific features of each of the countries, suggest the existence of some type of relationship between firm size, on the one hand, and industrial dynamism, articulation and underemployment, on the other. Micro-enterprises have a greater presence in those countries exhibiting an insufficient process of accumulation and unstable industrial growth; as a result of these circumstances, in the 1980s these countries have recorded the highest rates of underemployment in the region. The presence of large enterprises is most significant in the countries which have experienced greater industrial growth but which also suffer from the highest levels of social disarticulation, measured in terms of unequal distribution (Chenery et al., 1974; García, 1984; Fajnzylber, 1987). In contrast, SMI are an important presence in the industrial structures of countries which have traditionally had high levels of urbanization, industrialization and articulation but whose economies have stagnated in the course of the past few decades.

Judging by the figures, the entrepreneurial structures of some Latin American countries have similarities to those of the industrialized nations; however, the substantially different contexts associated with these two groups of nations must not be overlooked. There have been enormous structural differences between the growth and accumulation processes of the two, the specific features of their incorporation of the labour force, the articulation of their production systems and their attitudes to technical progress. Although it is not our purpose here to delve into each of these subjects, the prevailing feeling, although it varies somewhat from one country to another, is that the industrialization strategies used in Latin America have fostered the re-creation of a production apparatus having many features that are dysfunctional in relation to local needs and resources, with limited dynamism and low levels of productivity and competitiveness, and that over time this has weakened the production base and diminished these countries' ability to create new enterprises and jobs.

The most visible and controversial phenomena in this respect are the important role of the urban informal sector and the low productivity of the modern sector. If the category of micro-enterprises is extended to include informal employment in industry, which by definition is

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28The term "underemployment" is understood as referring to the performance of work whose productivity, as well as the earnings it provides, is insufficient and/or which does not adequately utilize workers' capabilities. See PREALC (1982).

29During the period 1950-1980, the average growth rate for the manufacturing industry was: Brazil, 8.3%; Mexico, 7.5%; Colombia, 6.0%; Venezuela, 7.2%; Chile, 5.6%; Argentina, 3.6%; and Uruguay, 2.6%; while the average for Latin America was 6.7% (ECLAC). The most significant levels of underemployment are found in Ecuador, 62%; Peru, 51.6%; and El Salvador, 49%; these rates are much higher than the regional average (38%). The above figures represent the percentage of the economically active population which is subject to underemployment (PREALC).

Table 2

DISTRIBUTION OF TOTAL INDUSTRIAL EMPLOYMENT BY FIRM SIZE
(Percentages)

<table>
<thead>
<tr>
<th>Country and year</th>
<th>Number of employees</th>
<th>Level of industrialisation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 - 9 and informal</td>
<td>10 - 99</td>
</tr>
<tr>
<td>Large countries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Argentina (1984)</td>
<td>43.7</td>
<td>25.2</td>
</tr>
<tr>
<td>Brazil (1980)</td>
<td>38.3</td>
<td>24.3</td>
</tr>
<tr>
<td>Mexico (1975)</td>
<td>54.1</td>
<td>11.5</td>
</tr>
<tr>
<td>Medium-sized countries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colombia (1984)</td>
<td>46.7</td>
<td>18.5</td>
</tr>
<tr>
<td>Chile (1984)</td>
<td>40.5</td>
<td>27.0</td>
</tr>
<tr>
<td>Peru (1973)</td>
<td>55.3</td>
<td>16.2</td>
</tr>
<tr>
<td>Uruguay (1978)</td>
<td>26.1</td>
<td>31.0</td>
</tr>
<tr>
<td>Venezuela (1984)</td>
<td>32.0</td>
<td>28.7</td>
</tr>
<tr>
<td>Small countries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Costa Rica (1975)</td>
<td>33.7</td>
<td>27.1</td>
</tr>
<tr>
<td>Ecuador (1981)</td>
<td>51.7</td>
<td>17.6</td>
</tr>
<tr>
<td>El Salvador (1976)</td>
<td>65.8</td>
<td>9.9</td>
</tr>
</tbody>
</table>

Sources: Manufacturing censuses and industrial surveys. The data on total employment were calculated on the basis of information provided by ILO and ECLAC. Levels of industrialization were obtained from the Joint ECLAC/UNIDO Industry and Technology Division.

not reflected in censuses of the manufacturing industry, then the distribution of firms by size becomes markedly skewed (see table 2). On this basis, the proportion of employment in the manufacturing sector accounted for by micro-enterprises ranges from 26% in Uruguay to 66% in El Salvador, with the share of employment corresponding to micro-enterprises increasing the most in Peru, Mexico and Colombia.

In order for the comparison between SMI in the Latin American and the industrialized countries to be a more realistic one, however, it is also necessary to take into consideration the socio-economic contexts involved.

2. Brazil, Colombia and Chile

There are a number of trends and features which are characteristic of the Latin American pattern of industrialization. The trends observed during the past three decades have been associated with rapid urbanization, an increase in the rate of investment and the degree of industrialization, a failure on the part of modern sectors to create enough jobs, and a widening of the productivity gap between the modern industrial sector and services. Common traits have included a position in the international economy which is based on natural resources, the establishment of an industrial structure oriented towards the domestic market, the desire to reproduce consumption patterns typical of the advanced countries and the precarious position of national entrepreneurs (Garcia and Tokman, 1985; Fajnzylber, 1987).

Despite the dynamism of industrial growth and of the accumulation process in Latin America since the 1950s, this has not been enough to uphold a level of production comparable to that of the industrialized countries.\(^{32}\) Nor withstand-
ing these factors which the countries have in common, however, it is essential to consider the specific features of the different national experiences as well. This diversity is exemplified by the industrialization processes of Brazil, Colombia and Chile, particularly with respect to the role played by SMI in these processes.

a) Industrial growth and SMI

With a population of over 130 million, Brazil has a per capita product of about US$1,600. Thanks to a prolonged and sustained industrial and technological development effort, it has joined the ranks of the newly industrializing countries (NICs). At present the country has a trade surplus in the agricultural, mining and industrial sectors. Colombia, with a population of 29 million and a per capita product of US$1,300, has pursued an industrialization strategy which is notable for its stability. Its trade balance shows a surplus in the agricultural sector, a deficit in manufacturing and is at equilibrium in the energy sector. Chile, with a population of 12 million and a per capita product of US$1,400, has adopted a liberal approach which has entailed sweeping changes in the economy, and has a surplus in agriculture and mining and a deficit in industry and energy.

The process of industrial expansion in Brazil during the past few decades has advanced rapidly in two main areas. Under the Target Plan (1956-1961), growth was concentrated in the transport materials sector; then beginning with the structural adjustment called for in the Second Development Plan (1974), an extremely rapid expansion was seen in the installed capacity of heavy industry oriented towards capital goods and strategic inputs, with the historical growth rate reaching 8.5% annually. In the 1980s, however, this rate has dropped to 3% (Tavares and Coutinho, 1985).

Colombia was one of the first Latin American countries to undertake an export promotion policy, and this policy produced satisfactory results between 1967 and 1974. Thereafter, however, even though the strategy remained substantially the same, the economy tended to stagnate as a consequence of both internal and external factors. The historical growth rate, which stood at 6% up to the 1970s, has fallen to 2.5% in the 1980s.

A major change began to take place in 1975 in the traditional pattern of Chilean industry, which had been based on the execution of large public investment projects promoted by CORFO (iron and steel, copper refining, petroleum, sugar and wood pulp plants) and the development of the domestic market. In the mid-1970s the industrial system began to play a part as one of the components of an overall strategy aimed at opening up the economy to the outside world, deregulating the financial system and readjusting the size of the State sector. The average industrial growth rate, which had been around 5% until that time, started on a downward slide marked by sharp fluctuations; a subsequent upturn brought the average growth rate to 1% in the 1980s (Muñoz, 1986).

The effects of the last crisis were felt more intensely in Chile than in Brazil and Colombia. The countries' recoveries have also differed: the industrial growth rate for the period 1984-1986 was 9% per year in Brazil, 5% in Colombia and 4.5% in Chile. In 1960, Brazil's manufacturing output was five times that of Colombia and of Chile; currently, it is nine and 13 times greater, respectively.

The trend with respect to SMI has also been different in each of these cases. (The reader will recall that Brazil and Colombia were classified among those Latin American countries in which large enterprises have been a more important factor, whereas Chile was included in the group of countries in which SMI has been relatively significant.) In all these countries, governmental agencies have promoted SMI, through the Corporación Financiera Popular en Colombia, SERCOTE in Chile and CEBRAE in Brazil.

Brazil's process of industrial expansion has involved a strengthening of the structure of large enterprises, and employment in such firms has risen more rapidly than in other enterprises (see table 3). Much the same thing was occurring in Colombia, until the adjustment made in the 1980s reversed this trend. The situation in Chile,
TABLE 3

BRAZIL, COLOMBIA AND CHILE: VARIATION IN AVERAGE ANNUAL EMPLOYMENT IN THE MANUFACTURING SECTOR, BY FIRM SIZE

(Percentages)

<table>
<thead>
<tr>
<th>Firm size (number of employees)</th>
<th>Brazil 1974-1980</th>
<th>Colombia 1979-1984</th>
<th>Chile* 1967-1979</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-49</td>
<td>3.2</td>
<td>5.1</td>
<td>-0.1</td>
</tr>
<tr>
<td>50-99</td>
<td>6.1</td>
<td>4.5</td>
<td>-0.6</td>
</tr>
<tr>
<td>100 and over</td>
<td>5.5</td>
<td>5.8</td>
<td>-2.0</td>
</tr>
<tr>
<td>Total</td>
<td>4.9</td>
<td>5.3</td>
<td>-0.4</td>
</tr>
</tbody>
</table>

Source: Estimates based on industrial censuses and surveys.

*In Chile, the relevant categories are 5-9, 10-49 and 50 or more employees.

However, has been substantially different: during the period 1967-1979, a contraction in industry was observed at the same time that a significant restructuring of employment in the manufacturing sector was taking place; this process called for adjustments in all types of enterprises, particularly the larger ones.

b) SMI in the industrial structure

One of the characteristics of SMIs is their subordination to the sectoral structure of the economy. This means that, in disaggregated terms, their position in the industrial structure may fall within the modern/traditional, urban/rural, formal/informal and export/domestic market spectrums. Although the information in this respect concerning the countries of the region is still of a preliminary nature, there are nonetheless some very telling indications that this is the case.

First of all, there are the changes which have been seen in the sectoral profiles of industry as a whole. The most significant of these is the increase in the size of the capital goods sector in Brazil (from 10% to 19% between 1963 and 1985). Generally speaking, Colombia and Chile have retained their industrial profiles of the 1960s, although the importance of the capital goods sector has grown slightly in the case of Colombia (from 5% to 6%), while in Chile it has dropped from 6% to 4% (ECLAC/UNIDO, 1987).

At first glance, the available information concerning the relative importance of SMIs, broken down by major branches of production, does not reflect differences among the three pairs which would be commensurate with the degree of the contrasts existing at the industrial level (see table 4). However, there are interesting distinctions of an intermediate degree. The first has to do with the sectoral emphases of SMIs, while the second concerns productivity ratios.

In Brazil there is a greater concentration of small industrial enterprises —10 to 49 employees— in the consumer goods sector, and particularly in the furniture, printed matter and food industries. This trait is even more notable in Chile, where small industry represents a large share of the clothing and plastics sectors, in addition to furniture and foodstuffs. The above suggests that some type of relationship exists between the production of goods to meet basic needs and small-scale enterprise. In the case of Colombia, the presence of small industrial enterprises is more notable in the capital goods industries, and particularly in the areas of non-electrical machinery and precision instruments. In Chile, too, small enterprises are beginning to be a force in the production of precision instruments and metal products.

These data also indicate that medium-scale industry is more evenly distributed among the various sectors in Brazil. In this country, such industry is primarily oriented towards the production of intermediate goods (wood, paper and chemicals) and capital goods (mechanical items); in Chile, it tends towards capital goods (metal products and precision instruments), as is also true in Colombia (non-electrical machinery and precision instruments). These variations would appear to be related to these enterprises' relative capacity for modernization, which allows them to produce more complex goods.

In the most industrialized production structure, i.e., that of Brazil, one notable feature is the
Table 4
PATTERN OF EMPLOYMENT, VALUE ADDED, INVESTMENT AND RELATIVE PRODUCTIVITY OF SME IN BRAZIL, CHILE AND COLOMBIA BY SIZE OF FIRM ACCORDING TO SECTOR OF PRODUCTION

<table>
<thead>
<tr>
<th>Industrial branches (ISIC 2)</th>
<th>Employment (% by firm size)</th>
<th>Value added (%)</th>
<th>Net investment (%)</th>
<th>Productivity index (firm size = 100)</th>
<th>Productivity index (industrial branch = 100)</th>
<th>% of total value added generated by branches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10-49 50-99 100 and over</td>
<td>10-49 50-99 100 and over</td>
<td>10-49 50-99 100 and over</td>
<td>10-49 50-99 100 and over</td>
<td>Average</td>
<td>10-49 50-99 100 and over</td>
</tr>
<tr>
<td>Brazil 1974*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer goods</td>
<td>30.2 14.9 54.9</td>
<td>22.0 13.6 64.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate goods</td>
<td>27.3 15.6 57.1</td>
<td>20.3 15.5 64.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital goods</td>
<td>17.3 13.9 68.8</td>
<td>14.0 11.5 74.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not classified</td>
<td>21.6 15.3 63.1</td>
<td>15.0 12.6 72.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>25.1 14.9 60.0</td>
<td>18.5 15.6 67.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brazil 1980*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer goods</td>
<td>31.1 14.4 54.6</td>
<td>19.1 14.3 66.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate goods</td>
<td>28.2 14.9 56.9</td>
<td>17.7 13.8 68.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital goods</td>
<td>15.8 13.0 71.2</td>
<td>10.2 9.6 80.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not classified</td>
<td>21.1 14.4 64.5</td>
<td>12.1 11.1 76.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>25.1 14.2 60.7</td>
<td>15.4 12.5 72.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chile 1975*</td>
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<td></td>
<td></td>
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<tr>
<td>Consumer goods</td>
<td>34.3 65.7</td>
<td>15.3 84.7</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate goods</td>
<td>23.6 76.4</td>
<td>8.6 91.4</td>
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<td></td>
</tr>
<tr>
<td>Capital goods</td>
<td>26.3 73.7</td>
<td>15.2 84.8</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>29.2 70.8</td>
<td>12.4 87.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Chile 1984</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Consumer goods</td>
<td>31.4 17.1 49.3</td>
<td>15.9 15.4 60.7</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate goods</td>
<td>25.4 11.5 65.1</td>
<td>6.8 48.8 88.4</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Capital goods</td>
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<td>21.6 20.2 58.2</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
<td>29.7 15.6 54.6</td>
<td>11.8 10.5 77.7</td>
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<td></td>
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<tr>
<td>Colombia 1975</td>
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<tr>
<td>Consumer goods</td>
<td>22.4 14.3 63.8</td>
<td>9.9 10.0 80.1</td>
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<td></td>
</tr>
<tr>
<td>Intermediate goods</td>
<td>14.2 10.0 73.8</td>
<td>6.8 5.7 87.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital goods</td>
<td>25.4 18.2 56.4</td>
<td>12.1 13.6 74.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>19.9 13.4 66.7</td>
<td>9.0 8.9 82.1</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Colombia 1979</td>
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</tr>
<tr>
<td>Consumer goods</td>
<td>19.3 14.8 65.9</td>
<td>8.0 8.3 83.6</td>
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<td></td>
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<td>Intermediate goods</td>
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<td></td>
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<td></td>
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<tr>
<td>Capital goods</td>
<td>21.3 16.4 62.1</td>
<td>11.4 12.7 75.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>17.8 13.5 68.9</td>
<td>7.8 7.8 84.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colombia 1984</td>
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<td></td>
</tr>
<tr>
<td>Consumer goods</td>
<td>23.1 15.4 61.5</td>
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<td></td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>Total</td>
<td>20.6 14.1 65.2</td>
<td>8.6 8.8 82.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*By categories based on number of employees.

†No data are available on the distribution of investment.

‡The census classification groups together all firms having over 50 employees.
major role played by large enterprises in the production of capital goods. The subsectors in which large production units figure prominently (electrical and transport equipment) are precisely those branches whose technological complexity is the greatest.

In addition, whereas in Brazil the productivity of small-scale industry — value added per employee — is relatively high in the intermediate (chemicals) and capital (electrical machinery) sectors, in the other two countries this is only true with respect to intermediate goods, i.e., in those branches in which SMIs play a minor role. As regards medium-scale enterprise, high rates of productivity tend to be concentrated in the intermediate goods sectors: chemicals in Brazil; chemicals and paper in Colombia; chemicals and basic industry in Chile. In relation to large firms, the highest rate of productivity is found in intermediate goods (chemicals and paper) in Brazil; in consumer products (tobacco, beverages and chemicals) and intermediate goods (paper, petroleum and basic industry) in Colombia; and in intermediate goods (petroleum, non-ferrous metals and paper) in Chile.

In Brazil, the productivity of SMI vis-a-vis that of large-scale enterprise is relatively low on average: 1.9% for small industry and 1.3% for medium-scale industry. The differences in productivity are substantially greater in Colombia and Chile.

When the figures corresponding to Brazil are broken down, it may be seen that the productivity ratios remain much the same in the relevant subsectors. It would thus be of interest to take a closer look at the conditions for the macroeconomic survival of small enterprises in Brazil, particularly in relation to the way in which these enterprises coexist with one another and with large firms.

c) The performance of SMI

According to the overall information for Latin America, SMI has a very limited position in the international economy, shows a preference for domestic markets and generally does not play a leadership role in the economic, political or institutional spheres, in contrast to the influence exerted by large private corporations, transnational corporations and public enterprises (Tou-rame, 1987; ECLAC/UNIDO, 1985; Estrada and Masi, 1983).

General analyses of the region as a whole usually associate most of the countries with a pattern marked by a specialization of production oriented towards mass consumer goods, the utilization of rudimentary technology and a lack of inter-enterprise co-operation. Within firms, these factors give rise to inadequate production conditions, an extraordinarily conservative management approach, a detrimental form of dependency on input and product markets, problems of gaining access to financing, and a low level of manpower skills.

Nevertheless, a thorough analysis of these experiences indicates the existence of a variety of situations. In Brazil, SMI developed with the help of an expanding domestic market, and medium-scale industries which produce intermediate goods are prominent. In Colombia, a relative shift of large enterprise within the domestic market was what paved the way for SMI, which has achieved a significant position in the capital goods sector. Finally, in Chile SMI has found it necessary to fall back on a survival strategy owing to this country's industrial reorganization, but it has nonetheless continued to account for a significant share of the production of capital goods. In all of these countries, SMIs have a limited technological level, primarily use their own capital, are averse to borrowing and see the governmental sector as performing more of a regulatatory than a promotional function. The fact that SMI in these countries have nonetheless made a highly positive contribution is attributable to the existence of relatively stable macroeconomic policies which favour industry in general, and to an economic environment which has provided these enterprises with a steadily growing market and has allowed them to attain a systematic improvement in their productivity (Gómez, 1986). Recently, SMIs have concentrated their efforts on upgrading their technologies. At the same time, they have been increasing their demands for State support in

5 Some relevant studies concerning SMI at the national level are the following: Argentina: Ministry of Planning (1984); Brazil: Schmitz (1982); Colombia: Cortés, Berry and Ishag (1987); Chile: Castillo (1986); Ecuador: INBOTE (1980); Peru: JUNAC (1987); Venezuela: JUNAC (1986).
the areas of financing, technical assistance and export promotion.

In Colombia, the contribution made by SMI to employment and output in the manufacturing sector has been a moderate one. The development of these production units began to pick up sharply when a policy aimed at opening up the economy was launched in the late 1960s. Although promoting SMI was not one of the objectives of this process, it did make things easier for SMI, because large enterprises began to specialize in the external market and in one part of the national market, thereby leaving a considerable segment of domestic demand unmet. This situation encouraged many technicians, employees and professionals to start their own companies, especially since it was accompanied by the emergence of a market in second-hand machinery, much of which came from large enterprises that had embarked on a modernization drive (Escandón, 1981). With the crisis of the 1980s, SMI productivity levels began to fall, but it has nonetheless retained its potential with respect to capital goods.

In Chile, SMI has had to deal with a number of traumatic events. Unlike what occurred in the other two countries, SMI consolidated its position in the Chilean industrial structure during the 1960s and diversified its activities among consumer, intermediate and capital goods within a context of slow economic growth. However, its development was associated with an intensive process of import substitution and a heavy dependence on promotion and assistance policies instituted by the State. This was the position of SMI when, in 1975, it found itself confronted with an abrupt restructuring of the economy which included a rapid opening-up of trade, financial deregulation and the reduction of the public sector. As a result of this strategy, a significant number of enterprises were pushed into bankruptcy (Mizala, 1985; Castillo, 1986). After yet another crisis in 1982 and a subsequent recovery, the situation has been marked by the coexistence of surviving firms and newly-created enterprises, helped along by a more limited process of import substitution aimed at increasing the production of consumer and capital goods.

III

Successful experiences and their implications for the Latin American countries

1. Italy and Japan

If the potentials of SMI in Latin America are to be assessed, then the analysis must not be confined to the regional situation alone, but must also cover the lessons that may be learned from what has occurred in other countries.

The experiences of Italy and Japan are quite exceptional and have been the most successful ones with respect to SMI in the postwar period. In the case of Japan, the approach taken has been one of industrial programming, with the entrepreneurial sector being linked to a State that takes a long-term view, and the domestic market being reserved as a basis for the expansion of manufacturing activity. In contrast, Italy represents a more spontaneous and less directed approach marked by what might be characterized as an absence of State intervention, in which stable social balances are maintained and the economy functions as part of the European Market.

Tables 5 and 6 provide an overview of the development of SMI in these economies. A simplified outline is then presented which highlights those factors that have contributed the most to the strong growth of SMI: the socioeconomic context, the modality of development and the institutional framework.

a) The socioeconomic context

The singular course which the development of SMI has taken in Japan, coupled with the expansion of large-scale enterprise, has its origin in the Meiji Reform, undertaken in 1868,
Table 5
ITALY: SOME INDICATORS OF THE SIGNIFICANCE OF SMI IN THE INDUSTRIAL MANUFACTURING STRUCTURE

<table>
<thead>
<tr>
<th>Employment structure</th>
<th>1-9</th>
<th>10-99</th>
<th>101-499</th>
<th>500-999</th>
<th>1000 and over</th>
</tr>
</thead>
<tbody>
<tr>
<td>1951</td>
<td>29.6</td>
<td>23.0</td>
<td>21.1</td>
<td>9.3</td>
<td>17.0</td>
</tr>
<tr>
<td>1961</td>
<td>25.3</td>
<td>30.1</td>
<td>22.4</td>
<td>8.0</td>
<td>14.2</td>
</tr>
<tr>
<td>1971</td>
<td>20.3</td>
<td>32.7</td>
<td>25.2</td>
<td>7.7</td>
<td>16.1</td>
</tr>
<tr>
<td>1981</td>
<td>22.8</td>
<td>36.1</td>
<td>21.3</td>
<td>6.8</td>
<td>13.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sales</th>
<th>1973</th>
<th>43.1</th>
<th>50.0</th>
<th>13.4</th>
<th>13.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1981</td>
<td>46.3</td>
<td>41.1</td>
<td>1.4</td>
<td></td>
<td>11.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exports</th>
<th>1975</th>
<th>17.2</th>
<th>26.0</th>
<th>56.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1981</td>
<td>17.7</td>
<td>28.9</td>
<td>53.4</td>
<td></td>
</tr>
</tbody>
</table>

Source: Istituto Centrale di Statistica (ISTAT) and CONFINDUSTRIA, Sezio Rapporto, Rome, 1983.

Sales and GNP are subdivided according to the following categories: 20-100, 100-500, 500-1000, 1000 or more employees.

The employment categories used in relation to exports are: 20-100, 100-500, 500 and over.

Table 6
JAPAN: INCIDENCE OF SMI IN THE INDUSTRIAL STRUCTURE

<table>
<thead>
<tr>
<th>Number of employees</th>
<th>1-9</th>
<th>10-99</th>
<th>100</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1972</td>
<td>15.9</td>
<td>37.4</td>
<td>16.0</td>
<td>30.7</td>
</tr>
<tr>
<td>1978</td>
<td>18.2</td>
<td>40.2</td>
<td>15.4</td>
<td>26.5</td>
</tr>
<tr>
<td>1981</td>
<td>18.6</td>
<td>40.6</td>
<td>15.4</td>
<td>35.7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sales</th>
<th>1972</th>
<th>6.6</th>
<th>27.5</th>
<th>17.1</th>
<th>48.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979</td>
<td>7.0</td>
<td>29.1</td>
<td>17.1</td>
<td>46.8</td>
<td></td>
</tr>
</tbody>
</table>

Source: Monthly Labour Statistics Survey, Ministry of Labour, Japan; Statistical table of industry, MITI, Japan.

In Japan, SMIs are defined as firms having fewer than 300 employees and/or firms whose capital amounts to less than 100 million yen.

Another important aspect in achieving a better understanding of this experience relates to this society's vision of the future, which has been manifested in the concerted industrial effort that has marked Japanese economic development and is its most well-known feature.

Within this context, one of the main characteristics of the industrialization process has been the emergence and reinforcement of a new generation of entrepreneurs which has added its capabilities to those of the preceding generation. Thus, alongside the traditional sectors which resolutely embarked upon a process of assimilating Western technologies and commercial culture, the traditional skillfulness in manufacturing delicate products, sound work habits and a high degree of discipline (Hosono, 1976; ECLAC, 1986; Dore, 1986; MITI, 1983 and 1986; Latin American Society, 1984 and 1985; United Nations/ESCAP, 1985; and Astorga, 1985).

The main stages through which industrial policy has passed are: 1955-1964, priority assigned to textiles, plastics and electrical items; 1965-1974, emphasis on heavy industry and television; 1975-1980, electronics, semi-conductors, numerically-controlled machine-tools and industrial robots.

which marked the beginning of the modernization of the country and its involvement in the international system. The cultural traits peculiar to the Japanese society have also been a factor; these include the existence of a group-oriented
strategies, a powerful group of national entrepreneurs has made its appearance, backed up by an institutional structure supported by a contingent of personnel devoted to public service. In this way, increasingly effective tactics based on co-operation between government and industry have been used in the pursuance of economic objectives, with the Ministry of Industry and International Trade (MITI) playing a very important role in this process.

In the case of Italy, industrial development has been the outcome of the coexistence of three different models. The more industrialized regions of northern Italy have seen the consolidation of a production structure based on large enterprises which are in turn associated with a network of SMI subcontractors. In the underdeveloped areas of the south, as well as in enclaves of industrialization, a highly traditional structure of micro-enterprises has managed to survive thanks to State assistance and to their evasion of taxes. Finally, yet another model has predominated in the "Third Italy", as it is called, i.e., the central and northeastern regions, where SMI is the most important type of productive organization in the industrial structure, and has demonstrated a great capacity for innovation and the ability to maintain a steady presence in international markets (ECLAC/UNIDO, 1986a; ECLAC, 1988). The level of development achieved by SMI, especially in the "Third Italy", is in its turn associated with various social and economic factors, including the characteristics of the agricultural sector, the social role of the family and the availability of an economic infrastructure. 17

b) SMI development modalities

In Japan, the existing links between SMIs and large enterprises were created in two ways: through the system of subcontracting by a parent company, under which SMIs produce certain previously-specified products, and through the system of subordinate affiliation, whereby small subcontractors co-operate with large companies as affiliates rather than subsidiaries. 34

This dual structure, which existed in the Japanese economy until the mid-1960s, was the result of the successive predominance of two well-defined trends: a narrowing of the gap between the productivity and wages of SMIs and large enterprises; and the progressive expansion of large firms at the expense of SMIs; this last trend later began to reverse itself. 39

In the case of Italy, the distinctive feature of the way in which SMI has spread is associated with the "system-area" concept, which refers to a network of enterprises concentrated in a given territory which produce similar goods or which are vertically integrated. Within these systems each enterprise plays a specific role in the processing or production process and thus constitutes both a production unit and a user of goods or services required or supplied by other enterprises. The network as a whole behaves as one large enterprise in terms of the utilization of economies of scale, but retains the flexibility afforded by the independence of each of the component units. 40

14 From the vantage point of the large companies, inter-firm co-operation and complementarity has primarily involved the spheres of research, design, inspection, education and automation. From the vantage point of SMIs, however, it has chiefly concerned the manufacture of parts, assembly, the provision of facilities and equipment maintenance. It is estimated that in 1981 about 66% of SMIs were engaging in subcontracting, particularly in the area of transport materials (85%), textiles (87%), electrical machinery (83%), machinery in general (84%).

38 This turnaround was brought about by the enactment of legal provisions designed to prevent such practices; a delayed effect of these provisions was to encourage the growth of inter-SMI associative activities. Recently, SMIs have embarked upon a vigorous process of modernization and automation.

40 Initially, system-areas developed primarily in industries having a small volume of investment and a large number of employees in which technological innovation was not called for and the process of learning-by-doing was a significant phenomenon (footwear, clothing, furniture). Later, some system-areas ceased to belong to the category of single-product enterprises as they moved towards a broader-based type of integration; this process culminated in the 1970s, with the achievement by SMIs of a
The production activity to be undertaken and the type of goods and services to be produced have generally been chosen on the basis of the available technical know-how in each location, so as to take advantage of cottage-industry specializations, the low cost of manpower and the possibility of subdividing the production process among various enterprises. In addition, the existence of SMI has served to intensify the use of the pre-existing economic structure, such as houses, stables and sheds, and the utilization of prior investments (machinery and equipment) which have been discarded by other enterprises as they modernize. Finally, in addition to the division of labour among SMIs, there has also been an integration of these companies with enterprises which supply credit, administrative and other similar services to industry.\footnote{Since the market of the Italian SMI is part of the European Economic Community, the country has perforce adopted an intermediate position as regards liberalization, thereby permitting its small and medium-scale enterprises to exploit more easily penetrated neighbouring markets. In Japan the contribution to exports made by SMI is substantial, but smaller than in the case of Italy.}

The manner in which SMI reacted to the crisis is clearly another relevant dimension of this analysis. During the 1970s and the early 1980s, Italian industry’s response to this situation took the form of an expansionary adjustment which was buttressed by a flexibilization of the economy through a greater de-verticalization and decentralization of production and technology. Most new industrial facilities belong to enterprises employing fewer than 100 people, but which as a group account for a large part of the new jobs created (see table 7).

In Japan, vast sectors of SMI have recently been overcoming their dependence on large enterprises, and this has given rise to the restructuring of some units and the creation of others, all of which has been facilitated by the modernization and automation of such firms. Many SMIs thus appear to be taking a more independent stance in coping with the crisis as they compete with large firms in some fields of high technology, especially through what are known as “risk operations”.

An indirect indicator in connection with this situation is that used in table 7, which shows that although employment in manufacturing during the period 1972-1981 diminished, the proportion of such employment provided by small enterprises and the number of this type of unit increased substantially. The situation in Italy and Japan differs considerably from that existing in the Federal Republic of Germany, where employment in SMI dropped more sharply than did the average for industry as a whole.

c) The institutional context

After analysing these two cases, it may be concluded that the public institutional structure has been of greater importance in Japan. Beginning in the postwar period, the State began to show a strong determination to step up the

<table>
<thead>
<tr>
<th>Country, size of firm</th>
<th>Percentage variation in employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italy</td>
<td>1971-1981</td>
</tr>
<tr>
<td>Up to 9 employees</td>
<td>25.6</td>
</tr>
<tr>
<td>10 - 99</td>
<td>23.1</td>
</tr>
<tr>
<td>100 - 400</td>
<td>3.0</td>
</tr>
<tr>
<td>500 or more</td>
<td>-0.6</td>
</tr>
<tr>
<td>Total</td>
<td>12.8</td>
</tr>
<tr>
<td>Japan</td>
<td>1972-1981</td>
</tr>
<tr>
<td>Up to 9 employees</td>
<td>13.5</td>
</tr>
<tr>
<td>10 - 99</td>
<td>4.9</td>
</tr>
<tr>
<td>100 - 299</td>
<td>-8.8</td>
</tr>
<tr>
<td>300 or more</td>
<td>-19.1</td>
</tr>
<tr>
<td>Total</td>
<td>-5.2</td>
</tr>
<tr>
<td>20 - 99</td>
<td>-33.3</td>
</tr>
<tr>
<td>100 - 199</td>
<td>-22.8</td>
</tr>
<tr>
<td>200 - 499</td>
<td>-20.5</td>
</tr>
<tr>
<td>500 or more</td>
<td>-21.6</td>
</tr>
<tr>
<td>Total</td>
<td>-23.9</td>
</tr>
</tbody>
</table>

development of SMI by means of policy measures in the spheres of technology, production, organization and financing.\textsuperscript{42}

Notable developments have also taken place with respect to the private institutional structure in Japan. As a result of the democratization process initiated after the Second World War, the number of associations of small and medium-scale entrepreneurs increased considerably and they began to undertake activities relating to financing, the joint purchase of equipment and raw materials, training services and research and information. These associations became the focal points of the national technological information network.\textsuperscript{43}

Currently, the institutional structure relating to SMI is made up of over 20 public and private agencies concerned with training, advisory services and information, integration, financing, the development of technology, product design and export promotion. These efforts are divided between the Agency for Small and Medium-Scale Enterprise, which is in charge of the design of policies and action programmes, and a group of public and private organizations which, with varying amounts of State assistance, carry out tasks in support of SMI (Astorga, 1985).

In Italy, the institutional situation is quite different. In particular, much of the growth seen in small-scale production has primarily been based on the local supply of manpower, saving capacity and entrepreneurial skills inherited from the pre-industrial era. No special public support has been provided, except in the underdeveloped areas of the south. However, a substantial volume of financial resources (a key factor for these production organizations), was made available for this process during its early stages.

Initially, co-operation among small-scale entrepreneurs in connection with the production and marketing of their products was one of the most important mechanisms used by networks of SMI. Later, greater market complexity and competition made it necessary to have a more extensive supply of information and greater management capabilities, to design common strategies and to place priority on product and service quality. The State's energetic industrial policy contributed to the accomplishment of these objectives. In recent years, attention has been focused on expanding export consortia and providing backing for credits requested by medium-scale and small entrepreneurs.

2. Opportunities and potentials in the region

This analysis of successful experiences with respect to SMI provides information that can be used in assessing the potentials of SMI as regards the industrial development of the Latin American countries. It is not a question of mechanically transferring experiences which have taken place in different societies and in different contexts, but rather of drawing lessons from these experiences which will make it possible to cast off many of the false dichotomies that muddle the discussion of this subject.

Viewing the countries of the region as a whole, three conflictive areas may be said to exist with respect to the role of SMI. The first concerns a series of divisions and gaps in the production structure which have a great deal to do with the very limited degree of socioeconomic articulation that prevails. Linked to the above, there is the more specific matter of the relations between SMI and large-scale enterprise, which was discussed in conceptual terms in the second section of this article. The third area relates to the question as to the nature of the structural effects of the crisis. This question, which has been asked so often in recent years, is closely related to the debate concerning the informal sector and its relationship to the performance of SMI.

\textsuperscript{42}In 1948 the Agency for Small and Medium-Scale Enterprise was created and in 1953 the SMI Stabilization Act was instituted. Then, in 1963, a series of decrees contained in the Basic Law on SMI were enacted with a view to putting a stop to the excesses committed by large-scale industry in connection with subcontracting. All of these basic measures have been reformulated and restructured as conditions have changed. To this end, there are policies concerning the modernization of equipment, the promotion of engineering technology and training, the introduction of new administrative methods, the rectification of detrimental situations in the field of commerce and the improvement of working conditions within such enterprises.

\textsuperscript{43}In 1978 there were nearly 40,000 associations of entrepreneurs, with almost 50% of SMI's participating in them. Their main tasks related to joint activities in the areas of subcontracting, the purchase of materials, financial management and production.
The available evidence indicates that there is a clear-cut difference between the economic performance of large and small enterprises, a gap between formal and informal markets and a very strong likelihood that, in the pursuance of a rapid development of technology, the distance separating traditional enterprises from modern firms is going to become increasingly greater. Furthermore, it may be concluded that out of the wide range of possible relationships between SMI and large enterprises (dependence, competitiveness and complementarity), the one most commonly found in Latin America is the last of these. This may be characterized as a "passive complementarity" in regard to both supply (subcontracting) and demand (parallel and segmented markets). Finally, it is clear that in times of prolonged economic crisis, the informal sector, micro-enterprises and some of the small enterprises whose activities are related to products or services consumed by the "poor" have the opportunity to expand, in contrast to the rest of the production structure, which stagnates (Tokman, 1987; Cornia, 1987).

Based on the above, we believe it is important to suggest at least three areas in which SMI may help to overcome the problems mentioned earlier.

Firstly SMI may play an active part in a process leading to a greater degree of socioeconomic articulation. This is because SMIs are more flexible than other enterprises, more closely linked to their markets and less autonomous in terms of co-operation and the delegation of functions. Another essential characteristic is their proximity to the source of demand, which allows them to respond swiftly to changes in the level of economic activity and to contribute to the creation of a flexible and efficient industrial system. The modality and extent of the relations between large enterprises and SMIs is far from being a trivial subject, given the variety of possibilities which exist, as demonstrated by the cases of Japan and Italy.

The experience of Japan shows that viewing large enterprises and SMI as if they were in opposition to one another sets up a false dichotomy, inasmuch as they may be perfectly complementary so long as a common view of the future is shared by a social majority, a true commitment is felt to industry and a dedication to hard work is present. The case of Italy, on the other hand, teaches us that, in a situation where a large number of independent workers are present, the determining factors relate to an efficient utilization of the economic infrastructure, specialization among SMIs and vertical integration within given geographical zones.

The belief that SMIs are by nature inefficient and that they are, therefore, destined to disappear as industrial development progresses is a commonplace which must be laid to rest. Experience demonstrates that this need not be the case. It is interesting to note that the productivity ratios between SMI and large-scale enterprise in Brazil during the 1970s did not differ substantially from those estimated for Japan. Moreover, even in those cases where SMI is to some extent inefficient, the possibility of using idle capacity mitigates the impact of this shortcoming.

The second area of SMI potential is that of technological progress. The experiences of Italy and Japan, with their various modalities of innovation, substantiate the fact that SMI, far from holding back technological development, can help to further it. This is because these enterprises are in a position to serve as effective channels for the dissemination of technological innovations originating at the "centre" of the system and as a production structure that fits in with the redefinitions of "economies of scale" associated with recent technological changes. Thus, in Italy there have often been cases of modern SMIs with a considerable capacity for innovation, particularly within the sphere of "system-areas", where the situation is such that many of these enterprises are able to introduce and adapt new technologies, thereby significantly contributing to the restructuring of the industrial system. In Japan, the close relationship between SMIs and large enterprises laid the groundwork for the modernization of small and

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44 The case of Japan may be used as a standard of reference. In the 1970s, the productivity of large-scale enterprise was, on average, around twice that of small-scale enterprise and 1.7 times that of medium-scale firms. It may be seen from an examination of table 4 that in Brazil the productivity ratio of large-scale enterprise exceeds small and medium-scale enterprise within the same order of magnitude (1.9% for small-scale and 1.3% for medium-scale enterprise). In contrast, the differences in productivity for Colombia and Chile are substantially greater.
medium-scale enterprises in terms of both the incorporation of new equipment and systems and the production of some of these items.

Finally, SMI is destined to play an active role in sociopolitical development. In this respect, there are at least three aspects which should be considered.

Firstly, because small production units are better able to adapt to cyclical fluctuations in the economy than large enterprises are, they can choose locations in relatively peripheral areas and utilize marginal segments of the labour force. In specific terms, they can thus help to lessen the concentration of the population in large urban centres and can provide income-earning opportunities for strata which usually do not have access to them. In this sense, SMI can serve as a means of easing social tensions and of contributing to a greater degree of equity.

The second consideration concerns the development of entrepreneurial capabilities, which have traditionally been associated at least in the literature, with the spread of small production units. This factor not only helps to improve the efficiency of the production system, but also serves to support and ensure lasting social stability. This is particularly important in the case of Latin America, in which the commitment to entrepreneurship has been consistently weak and has often been influenced by factors relating to social values.

The third aspect has to do with the political stability of democracies. This subject has not yet been analysed in sufficient depth to provide grounds for definitive conclusions. Nevertheless, the available evidence appears to indicate that the middle class is usually the social stratum that is most concerned with maintaining the stability of a liberal democracy. In some cases in Latin America the middle class has played a crucial role in destabilizing authoritarian regimes by non-revolutionary means. In this sense, it appears probable that small-scale entrepreneurs, although politically conservative, enjoy greater advantages in a democratic and participatory system.

3. Some policy considerations

In order for the Latin American countries to resume a process of growth and development, their structures of production will have to undergo a through-going transformation. This statement requires that a distinction be made among at least three aspects of differing levels of specificity which influence the performance of SMI in varying ways: the types of policies that constitute the enterprises’ macroeconomic frame of reference, which may be termed “factorial” policies; the form and coverage of direct assistance programmes and programmes for creating new enterprises, which may be categorized as “sectoral” policies; and, finally, the role assigned to the State. The main thrust of “factorial” policies is the maximization of the most attractive qualities of SMI. These relate to the utilization of the chief opportunities for development, such as the capacity for modernization, co-operation, specialization and subcontracting. The types of functional mechanisms involved

45This is no doubt a highly controversial statement. Nevertheless, it is the authors’ view that in a number of instances in which a society has been making a transition towards democracy, the intervention of this segment of society, whether appropriate or not, has been a determining factor in the success of the process. This does not necessarily mean that the middle class is a progressive and dynamic factor nor that it is the class which fights the hardest in order to establish a democratic institutional structure. However, it is the class which makes the greatest effort to maintain such a structure once it has been established.

46A system in which participation is decentralized ensures that a series of conflicts (which, in situations where co-ordination is carried out at a general level, are usually amplified) will be confronted and resolved in a pragmatic fashion at the sectoral or regional level by the actors that are directly involved. It can be argued that, in social terms, small and medium-scale entrepreneurs are a characteristic component of the middle class and have greater need of economic and political stability and of a low level of social tension than do large enterprises. In the case of Italy, this concept was explicitly recognized by the first post-fascist government: the development of a class of small-scale entrepreneurs was regarded as playing a functional role in achieving the stabilization of democracy. See ECLAC (1988).
may be grouped in terms of tax and credit policy, technology, market access and industrial siting, training and marketing.

Within this framework, another important element is the reinforcement of the links between SMI and large economic groups which is both necessary for, and an objective of, industrial restructuring. In this connection, it is interesting to note the changes now taking place in the organization and characterization of entrepreneurs in the industrialized countries as a result of technological progress and the rapid transformation of markets: in both cases there is a tendency "to replace vertical hierarchical relations with those characterized by horizontal cooperation" (ECLAC, 1988a, p. 48). The objective is to create a flexible system of industrial production that is capable of adapting to the swift changes occurring in patterns of demand.

Inssofar as "sectoral" policies are concerned, in situations where markets are undergoing a process of rearticulation and expansion, it is possible to single out, on a tentative basis, some areas of production in which SMI might be expected to figure prominently. In this respect, guidelines and instruments need to be provided that will make it possible to prioritize and select a set of activities which would then become the main target groups for more selective assistance programmes in the fields of finance and technology. The management and transformation of demand are important matters, inasmuch as they can provide a stimulus for both routinely-used and durable consumer goods. Furthermore, the expansion of the domestic market is an inevitable consequence of a policy which promotes greater equity. SMI may benefit from policies aimed at improving product design, disseminating new technology and starting up some lines of production involving the use of high technology.

The third aspect is linked to the role of the State and its relationship to the economy. In designing strategies and policies, it is useful not only to make specific recommendations, but also to suggest ways in which the State may be more effective in promoting concerted efforts by the various agents involved. At the level of industrial strategy (the frame of reference for the development of SMI), it is assumed as a given that the system adopted should be such as to permit the coexistence of participatory planning and the market (Fajnzylber, 1983). Participatory planning would play an important role in the design of basic medium- and long-term guidelines for investment programmes in strategic sectors, the maintenance of the conditions allowing for a macroeconomic equilibrium, and the definition of sectoral promotion policies. The market, for its part, would perform an important function as a channel for the flow of information to the whole of the economic system for purposes of decentralized decision-making and the resolution of short-term tensions or maladjustments. Within this framework the market would be of less significance, however, as a basic mechanism for the allocation of resources to areas regarded as being strategic, but would continue to function as a regulator of the decentralized economy, which is the type of context that is most conducive to the operation of small enterprises.

Within this setting, the impact of policies aimed at promoting small-scale enterprise would undoubtedly extend beyond the sphere of purely economic matters and would be of importance in relation to the criteria, judgments and motivations of individuals and collectives. This is attested to by the highly significant role to be played by the formal educational system and the media in reinforcing the foundations of an efficient entrepreneurial system which would foster closer ties between the population and industry while also promoting technical progress and creativity at the local level.

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