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## United Nations Industrial Development Organization



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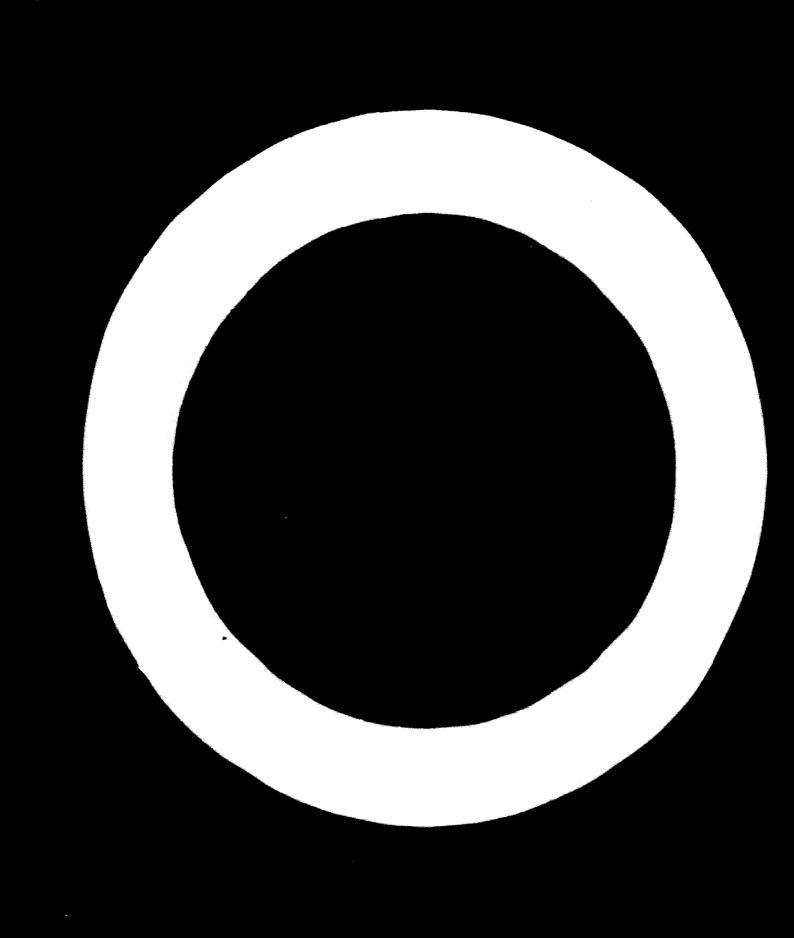
Interregional Seminar on Industrial Location and Regional Development
Minek, August 1968

# INVESTMENTS IN BRAZIL 1

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Agmar Rodrigues Faria

The views and opinions expressed in this paper are those of the author and do not necessarily reflect the views of the secretariat of UNIDO.



#### SUNDIARY

- 1. The allocation of investments in Brazil until 1959 was oriented exclusively by the market; as a result the development pattern was one of marked concentration in the central-southern region. Because this region was already operating with important location economies it could profit directly from all general incentives for industrialisation. However, this situation brought about even greater regional disparity between this region and the northeast.
- 2. Once again the phenomenon was concentrated in the central-southern region. It was the state of São Paulo which was able to abour the general measures of direct and indirect incentives for industrialization, profiting from its important location advantages. The perception of this economic development concentration brought about the formation of regional development organizations which aimed to supply "problem regions" not only with an economic infrastructure and incentivates for development, but also with elaborate sectorial plans for development.
- 3. Of these organisations the first created was SUDENE Superintendency for the Development of the Northeast. The incentives and industrialisation introduced by SUDENE constitute the only vigorous regional policy for allocating investments in Brasil. This mechanism is based on the Tributary Credit System which permits an income tax deduction of as much as 50 per cent if this amount is invested in a project approved by SUDENE for the region. Deductions must be deposited in Brasil's Northeast Bank thus creating substantial resources which may be used to finance projects for as much as 75 per cent of the total capital necessary. This system separates investors from tax payers. The contributor invests only in preferential shares with no right to vote; the group that invests its own resources assumes total control of the enterprise.
- 4. This fiscal credit mechanism introduced in order to promote the industrialisation of northeast Brasil has led to very favourable results, and will help to bring about a diminishing of disparity between this region and the central-southern region. The table below indicates this fact by showing the rate of growth of the industrial product of the northeast region.

Table

Rate of growth of the industrial product

(Northeast region compared with total Brasil)

Pariod	Brasil	Northeast
1949-1954	9.6	5.3
1954-1959	12.2	2.2
1959-1964	7-4	7-4

Source: "The northeast's festival" Costa, R.V. in Conjuncture and Development, XII No.1, 1 Feb. 1968.

Although this system is being employed to promote industrialisation in other regions of Brasil, its validity in the northeast begion is not indefinite. It should be gradually extinguished starting with quantitative targets imposed by SUDENE, the regional planning organisation.

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#### Introduction

- 1. There is often great disparity of economic development among regions of many countries throughout the world. The verification of this fact in almost all countries has made planners and policy makers set as one of their main objectives of economic policy the elimination of such disparity. This lack of balance between regions is found in both centralized economies as well as in compound systems based on the market; it is found in countries with extensive territories as well as in those with small areas. However, it seems that such discrepancies are greater in large countries than in those where the market has a marked influence on the geographic distribution of investments.
- 2. Examples of such discrepancies may be found in Italy where there is a vast difference between the north and the south; in Greece where the Athenian region has a per capita income two and one half times greater than that of other provinces; and in Poland where Byalistock is found to be the poorest province in the country. Even more noticeable differences are found in Spain and Yugoslavia where the relation of income between the rich regions and the poor ones is four to one. In Brazil the ratio between per capita income of provinces reaches seven to one. It should be evident from those examples that the problem of regional balance is not restricted to any one economic system in particular or to any specific size of country.
- An analysis of the existing differences between the richest and poorest regions, respectively the southern and northeastern parts of the country, as well as an account of the historical and economic evolution will be given in order to isolate the main determining factors of the phenomenon. Finally, a comparison will be made of the two types of regional development policies to be found in Brasil. They are: the development policy based on the market mechanism in which the Government participation is at a minimum; and the policy in which the Government performs the main role either by channeling resources or by orienting investments.

<sup>1/</sup> Silva Leme, R.A., Basis for a Regional Development Policy, mimeographed, University of São Paulo, 1966.

#### I. THE BRAZILIAN PROBLEM

- 4. As mentioned above, the regional discrepancies in Brasil are of such an extent that the par capita income of the tate of São Paulo, the most developed region in the southern part of the country, is seven times greater than that of the State of Piauf, the poorest state in northeastern Brasil (see Figure 1). To blame climatic conditions for the great variance in the distribution of income in the country is not justifiable. The uneven distribution of natural resources and the prevailing climatic conditions only emphasise the difficulties which agriculture has had to face in the northeastern region of Brasil. The existing problems were evercome after a generation had used the development process. The region now has agricultural participation on the product market and this sector operates in spite of unfavourable climatic conditions.
- 5. In the case of Brasil, a careful historic analysis is needed in order to detect the important aspects of regional discrepancies. A statistical comparison alone is not sufficient because the favourable position of the southern region at present, especially the state of São Paulo, can only be understood when considered in the context of the whole development process of the Brasilian economy.

## II. THE EVOLUTION OF BRAZIL

- 6. At the beginning of the period of colonisation the territory of Brasil represented a heavy burden to the Portuguese. Soon the discoverers found that the implantation of an intense colonisation and exploration policy would be justifiable in order to eliminate the pressure exerted by other nations who wanted to conquer the recently discovered region. The execution of such a programme meant turning away from resources of more productive projects in the Orient and turning to an enterprise with little economic promise. The great distance from Europe and the insecurity of transportation made any oconomic activity non-competitive. The high cost of transportation and the inexistence of an internal market at that time would not permit Brasil, especially the southern region, to become an economic prolongation of Europe.
- 7. Some factors, nevertheless, made possible the beginning of agricultural and industrial activities in northeastern Brasil. A factor of great importance was the inability of the Venetians to absorb all of the sugar produced at that time.

#### Plane 1

## Per capita income in Brasil in 1958 (\$US)

Region	Income
SÃO PAULO [	BAHAMAR POR PROPERTIES OF THE PROPERTY OF THE
RIO GRANDE DO SUL	PARAMONERANSE TO SERVICE ASSESSMENT
PARANÁ -	APPARACOSOSSESSES : ASSESSESSESSESSESSESSESSESSESSESSESSESSE
RIO DE JANEIRO	\$5500000000000000000000000000000000000
AMAZONAS -	**************************************
STA. CATARINA	WASSERVAN CONTRACTORS
MATO GROSSO	**************************************
MINAS GERAIS	91CH2146 ( 300H35664)
ESPIRITO SANTO	28/9286 X . (CETTA) 58.4
PERNAMBUCO -	988666 ! (140.686608)
PARA -	BRANK C. MICHER
RIO GRANDE DO NORTE	188890 Y ( 189000000)
BAHIA -	60000 7° 1000000
GOIÁS -	ACCOUNTY TO MAKE TO THE PARTY OF THE PARTY O
SERGIPE -	2000 17 x000000
PARAIBA -	**************************************
ALAGOAS -	3000 X 2000000
CEARÁ -	9685 A.C. J. 1986/970
MARANHÃO -	9887°73988
PIAUÍ -	AK A XVV

The loss of the monopoly by Venice came about with the entrance of the Netherlands in the distribution of the product, which was not produced solely in the Orient. The large-scale production adopted by the Portuguese, the suitability of Brazil's northeastern soil, the use of up-to-date the industry and the adequate financing by the Netherlands, made possible the rapid expansion of sugar plantations in Brazil. The central and southern regions of the country contributed only slightly to this activity. Their only link with the dynamic economic centre was by supplying part of the Indian labour force.

- 8. Due to the existence of slave labour, with its remuneration dissociated from the market, the growth of income in the northeast provided no stimulus for diversification of internal demand and consequently no diversification of the entire industrial apparatus. In this system, profits were either reinvested in the activity which generated them or they were invested abroad. This type of economy soon reached its maximum and made it impossible for all other regions in the country to develop in connexion with sugar production.
- 9. At the start of the "gold cycle" in the national economy, the economic centre moved to the central region of Minas Gerais. Even though the occnomy offered no conditions for the establishment of autonomous economic growth, it brought about the formation of smell settlements in the neighbouring regions engaged in supplying mules and food. São Paulo became the path for oncoming herds from the far south destined for Minas Gerais. Thus, São Paulo at the close of the eighteenth century had secondary participation in the national cornemy.
- 10. Only after the second half of the nineteenth century was it able to engage in its first "take off" in the development process due to the increased in armatical demand for coffee. She Paulo answered to the stimulus derived from the coffee demand throughout the world with massive investments in the field.

  Investments in the infrastructure of the economy, mainly in the railroad sector, were made in order to guarantee rapid transportation of coffee from the plantations.
- 11. This flow of capital to the infrastructure generated great flows of income in the national economy and due to its multiplying effect, created conditions for autonomous development. As a result of this, there was an increase in the real income available for use by the great masses of labourers employed in rural activities, and an increase in income for a small portion of labourers working in the existing urban centres. The enlargement of the internal market of Brazil was

due to immigration from Europe and the abolition of slavery. The constant increases in exchange rates acted as a protective tariff and helped to create conditions for the beginning of the industrialisation process.

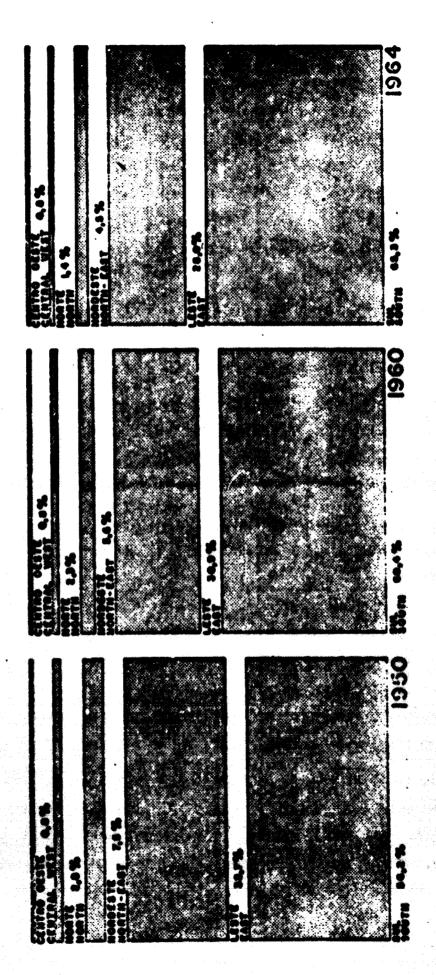
- 12. The concentration of a consumer's market in the southern region, specifically São Paulo, began with the installation of a few electric generating units in the region. The relatively long railroad system placed São Paulo in a favourable position to attract the incipient industrialisation process. Quantification of these facts can be seen by examining the industrial census; in 1907 only 16 per cent of industrial production was in São Paulo, while in 1938 this participation was over 40 per cent.
- 13. With the beginning of the First World War the first phase of acceleration of the industrial development of Brasil began. The process was consolidated with the advent of the Second World War when, at that time, a migratory flux from the fields to the cities took place.
- 14. In general, the industrial process in Brasil has been brought about indirectly by the attempts to overcome the difficulties encountered by the national economy, from the beginning of the century, to fulfil various product needs of the population. A concentration of effort has been made to produce the needed goods internally. Vouchsafes have been made for the entrance of foreign capital in order to increase the resources for investment in the secondary sectors of the economy. At the same time a series of investments to build up the infrastructure has brought about the introduction of external economies which help the private sector of the economy.

Pistribution of internal income in Brasil

	1950		1959	
Recion	TALLE AT (000)	1	Value (NGr \$1,000)	4
Northeast	24,794.6	11.3	203,755.0	10.6
South	106,064.2	48.0	971,072.7	50.7
Others	89,417.7	40.7	741,665.0	38.7
Total	220,276.5	100.0	1,916,492.7	100.0

- 15. Due to these processes of development, income has not been distributed uniformly throughout the nation. The differences shown in 1950 still persist, in spite of reasonable growth. Even more accentuated than the differences in the distribution of the product are the discrepancies shown in terms of industrial location (see table 1). In 1950 industry in the southern region was responsible for a little more than 56 per cent of the value added by the industrial production, while in 1960 this participation grow to more than 60 per cent and to 65 per cent in 1964.
- 16. In the southern region the phenomenon is highly concentrated. The participation of the state of 860 Paulo in the value added by the industries in the regions went from 77 per cent in 1950 to 84 per cent in 1964 (see figure 2).
- 17. Analysing the aspects of industrial concentration in Brasil from the angle of employment distribution, the diagnosis still confirms that there is a strong concentration of employment in the southern region, especially in São Paulo. Table 2 shows the distribution of industrial employment from 1950 to 1965.
- 18. The importance of the southern region as a development centre and the centre of the industrialisation process of Brasil is evident from an analysis of the variations that took place in the employment levels of all regions of Brasil. The variations in absolute terms of labour occupied in industry show that only in the southern region changes took place between 1950 and 1964. These facts cerroborate the information concerning the migratory flux from the northern part to the southern part of the country. When a very large contingent of the labour force from northern regions sought employment in the southern states, a need arese for emorgous investments in order to open up new frontiers of employment.
- 19. The economic development process of Brazil has encountered the problems of industrial concentration and maintenance of regional disparity common to many other countries. She Paulo has been the largest participant in the process by absorbing most of the labour employed in industry in the region.

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	Bra
	.5
Table 2	employment
	ndnat misl

				A1	1954	_	~i	981	,	<b>~1</b>	1965		
	Bullone	* -3 ·	~	Imployed		·2	Puployed			Employed		<b>.</b> .6	
• • • • • • • • • • • • • • • • • • • •	8	2.9	0.7	9,226	4.6	9.0	13,902	6.2	8.0	5,284	2.9	0.3	
	1,28	6.0	0.5	2,136	1.1	9,1	4,347	1.9	9				
	18,708	6.7	1.5	18,295	9.1	1.2	20,194	9.0	4.1	•		கூச்சு ⊭அ	
P.G. de Sorte	7.684	, w	9.0	12,000	0.9	0.8	11,968	5.4	0.7		· ·	: 'an.,,	
Pareibe	23.443	10.9	1.8	15,171	7.5	1.0	17,215	7.7	1.0	144,160	80.3	743	
Permambuco	82,271	38.4	6.4	76,649	38.0	5.0	72,058	32.2	40			n en ek	
Alamas	8.8		1.8	19,154	9.5	1.3	19,759	8. 8.	1.1			<b>~</b> ************************************	
Servine	15,901		1.2	13,971	6.9	60	14,286	6.4	0	•			
Behis	33,232 15.5	15.5	5.6	35,060	17.4	.g-	50,023	22.4	2.8	30,190	16.8	<u>.</u>	
Sub-total	214,113 100.0 16.7	100.0	16.7	201,662 100.0	100.0	13.2	233,752	100.0	12.4	179,634	100.0	1.6	is rate 🍎 🗗
Mines (Sprain	107.223 13.2	13.2	8.3	118,454	11.7	7.8	140,268	11.1	7.8	139,916	7.6	et .	.*** ~ •
Sto Paulo	526,086 64.9	64-9		655,823	64.7	43.1	831,339	0.99	46.2	1,005,327	69.8	5141	
Paremé	32,869		5.6	51,494	5.1	3.4	68,455	5.4	3.8		•	1 o x 18	
St. Ceterin	35,081	43	2.7	54,084	5.3	3.6	789,69	5.5	3.9	132,165	9.2	2.9	
R.G. do Sul	103,748	-	8.1	125,361	12.4	9.2	134,630	10.7	7.5	152,135	10.6	L. L	
M. Grosso	3,229		2.5	5,063	0.5	0.3	7,804	9.0	0.4		•		
Coifs	3,135		. 0.2	3,234	0.3	0.2	7,137	9.0	0.4	10,792	о 9	9	
Sub-total	811,371 100.0- 63.3	100.0		1,013,516	100.0	9.99	1,259,315	100.0	0.07	1,440,335 100.0	100.0	73.2	
TOTAL BREETLE	1,282,572		* *	1,523,016	1-	100.0	4,799,376	•	100.0	1,967,574	• •	100;0	
								<b>4</b> .	4.50		•		

<u>Table 3</u>

Changes in size of industrial labour force (1950-1964)

Regions	1950-1960	1960-1964	1950-1964
North	2,475	-4,464	-1,989
Northeast	-33,825	-19,526	-53, 351
East	2,209	-5,655	-3,416
South	299,820	142,225	442,045
Central Hest	5,853	-5,503	-546
Brasil	276,532	107,275	363,807

Annual Brasilian Institute of Goography and Remandes (1968)

Phlad

Manne de cire			
States	1990-1960	1040-1044	1050-1054
São Paulo	254,574	139,009	393,600
Parand and St. Catarina	36,480	-3, 593	32,867
Rio Gr. do Sul	6,701	6,729	15,406
Solution	299,880	142,825	442,045

Acetal 1908

20. In the state of Me Punio the greatest part of the resources and offerte the generated in the fight for the national security development. Among the local advantages presented by this state are:

- (a) The growth of an internal market due to the high unges paid by the coffee plantations and an increasing population concentration;
- (b) The development of a considerable market of factors especially labour opportunities derived from the development of the coffee economy:
- (c) External occurates brought about by the transportation network as well as the development of other sectors of the infrastructure.

#### III. THE MECHANICS OF THE INDUSTRIAL DEVELOPMENT OF BRAZIL

- 21. The economic development of Brasil until the first half of the nineteenth century was a process that was dependent upon international market fluctuations for its products. Being so, all internal economic expansion was conditioned by favourable circumstances and influences from the rest of the world. This situation lasted until the beginning of the Second World War when the lack of industrialised products for direct consumption forced the national industry to produce goods which had always been imported. However, with the use of equipment and machinery which could not be given proper maintenance due to war difficulties, the depreciation rate of this investment was relatively high.
- 22. By the end of the Second World War the country was in an economic situation which could be characterised as "exchange suphoria". The accumulation of our-remay on the one side from the large exportations of raw material to the belligerent countries, was counterbalanced by the impossibility to obtain manufactured goods on the international market. This situation brought about the liberalization of importations in the post-war years, which occasioned the rapid exhaustion of the exchange currency reserves.
- 23. The constant concern of the national authorities to exert control over the demand for exchange currency, but the realisation of the urgency for tariff protection in order to give incentive to industrialisation made it necessary for the Experintendency of Currency and Gredit to undertake some measures.

  Among them use Instruction Number 70 (1953) which introduced fundamental changes in the national exchange system. The fact that multiple categories were established for experting and importing, with different exchange rates based on the essentiality of a product, introduced heavy protection on the industries of direct communer goods, judged as non-essential, and thus opened facilities for investments. This incipient stimulus to the process of substituting importations became the greatest stimulating force of investment in the industrial sector.
- 24. The Instruction Number 70 from SUNDC, which implicated a restriction over importation of superfluous goods for all national territory, was directly beneficial to national industry, but the new allocation of resources favoured exactly the state which already showed a high degree of industrialisations. Me Pundo.

<sup>2/</sup> SURCC - am old organisation that controlled the ourrency and credit in Brasil, today part of the Central Bank.

- 25. The main objective of the national economic policy was industrialisation. For this reason, all profit from foreign commerce or agriculture was channeled into the form of savings which would guarantee investments in the industrial sector. However, a national industry cannot count solely on internal savings. In 1955 SUNCC through its Instruction Number 113, designed to attract foreign capital, permitted international investors to introduce equipment without exchange coverage, and thus participate in this manner directly in projects being introduced.
- 26. The process of substituting importations and the consolidation of protection of national industry reached its plenitude with the new tariff law introduced in 1957. In accordance with this law goods were assigned to special categories which made it possible for their tariffs to be two or three times those of the international market. At the same time it discouraged importation of goods which could be produced in the country. It favoured the entry of equipment and raw material through cost exchange at strongly subsidised rates.
- 27. All of these regulations were part of a series of measures designed to encourage national industrialisation. At the same time the idea of development was furthered by a programme of sectorial aims (Program of Targets) instituted during the administration of Jucelino Kubitschek de Oliveira, 1956 to 1961.
- 28. Because all of these measures were general in character, they brought only greater benefits to those regions which could already guarantee sufficient return on capital investment. The general development policy adopted during the 1950's did nothing more than strengthen São Paulo's position and guaranteed it an ever-growing participation in the added value of the national economy.

## The economy of Mo Penlo .

- 29. It is evident that all phenomena which characterise the important structural changes in the economy of Brazil tend to present themselves in a more marked form in 560 Paulo's economy. In general, 560 Paulo has been able to increase its per capita income greatly. It has diversified its productive compound and has assembled a complex structure similar even to the greatest industrialised countries of the world.
- 30. Such alterations can be synthetised through a quick analysis of the changes that took place in the composition of São Paulo's internal income in the last few years. In 1950 the primary sector was responsible for about 30 per cent of

the total generated income; this rating fell to about 19 per cent in 1964. This relative loss of position was compensated for by a growing participation of the industrial sector which rose from 28 per cent in 1950, and generated 36 per cent of the internal income of the state by 1964. This fact is due to the different rates of development of the product in each sector, verified during these years and shown in figure 3 and figure 4.

31. The behaviour pattern shown by the indexes of total production of São Paulo's economy beginning in 1955, indicate that its rate of development went through rational adjustments. This fact is due solely to the industrial sector behaviour, which became more elastic and could answer to the stimulus coming from changes in the internal demand.

32. Table 5 shows the effects of this industrial localisation process determined by the market. São Paulo, due to the advantages of location, was able to constitute itself in the centre of attention of all industrialisation measures presented in Brasil. Table 5 below shows the industrial participation of Suo Paulo in terms of employment and added value above the national average.

Industrial participation of São Paulo above the national average

Year	<b>≜</b> á	ded value	Emloyed labour
1939		39%	345
1949		43%	346
1959	•	55%	46%
1964		615	51\$

Source: IBOE

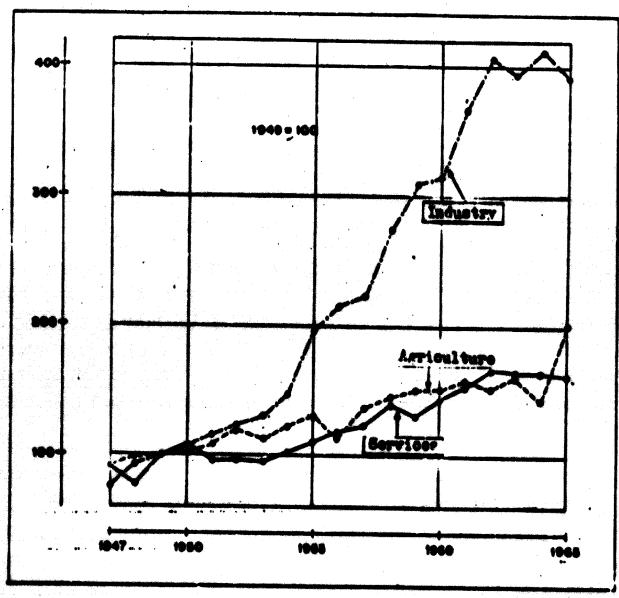
33. The fact that São Paulo became the centre of accomplishment of all important projects in Brasil brought about problems of employment policies. Table 5 indicates that São Paulo grew much faster in relation to added value than to percentage of employment.

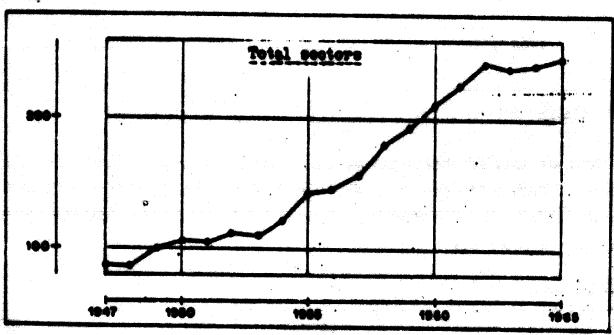
<sup>3/</sup> The relation -  $\log P_{it} = 4 \ 1014 + 2.24 \ (.000002) \log M_{it}; (r^2.934)$ 

Where Pit is the index of the real product in the industry of 860 Paulo in period t, Nit the index of employment in 860 Paulo's industrial sector in period t, shows that an increase of 15 in the industrial employment represents an increase of 2.245 in the industrial product.

<u>Pigure 3</u>

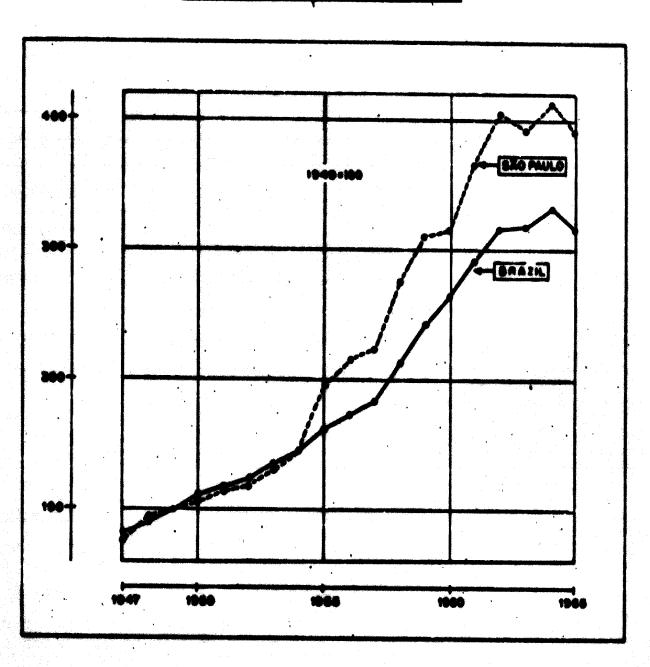
Development of sectors in São Paulo (1947 to 1965)





Pigure 4

Comparison of industrial product of São Paulo
with total Brasil (1947 to 1965)



- 34. The impressive development of the industrial production of São Paulo was due to the use of modern production technology and labour-saving devices. However, the use of such technology has resulted in an ever-growing contingent of unemployed parsons in the large urban areas, especially São Paulo and Rio de Jameiro.
- Another workel characteristic of the industrial development process that took place in São Paulo, with its rate of product growth of over 11 per cent per year, was the considerable change that took place in the industrial compound. The loss is position of immediate consumers goods, exactly those which present how of asticity of income of consumption, was accompanied by large development of transfer which produce capital goods, intermediary goods and durable goods. Those are the sections in which large-scale economy and transportation are of special importance.
- The construction of the fact that nearness to large markets, from the angle of the construction of construction.
- In Marchemore, analysis of the approach distribution of manufacturing activity in Man Paulo's territory enows that the largest part of the renufacturing is found at the crossing of the main sugar of Man Paulo's transportation system. The area are formed by the Control Provid Radireal, which connects the capital of the state to Man de Janeiro, and by the Santos a Jundial Railroad, which connects the capital to the port of Santos on one side and with the interior of the state and the control regions of Fracil on the other. It is at this intersection that Greater São Faulo is located. It is the largest metropolitar, area in the country with more than 6.5 million inhabitants, one of Latin America's hargest industrial compounds where approximately 700,000 workers are employed.

The participation of São Paulo over the added value in the electrical equipment industry, transportation material and mechanical industry varied between 30% and 92% in 1964.

38. The constant growth of Greater São Paulo's employment statistics compared with the national totals, once more emphasizes the fact of the polarized characteristic of the national economic development. This fact is indicated in table ó which follows.

Table 6

Employment of Greater Séc Paulo compared with national total

Year	Brazil	Greater São Paulo
1939	100.0%	20.8%
19 <b>49</b>	100.0%	23.8%
1959	100.0%	32 <b>.2</b> %
1965	100.0%	35.0%

Source: IBGE

- 39. There is every indication that without the intervention of an organisation for the orientation of spatial location, the process of industrialization in Brasil would tend to maintain its characteristics of geographic concentration and the existing regional disparities in the country would become even greater.
- 40. The realisation of this situation in Brasil has recently brought about an organisation for regional development. The aims of this organisation are to furnish "problem regions" not only with an economic infrastructure that can act as an incentive for development, but also with sectorial plans for development.

## IV. A POLICY FOR REGIONAL ORIENTATION OF INVESTMENTS 5

41. The awareness of Brazilian authorities of the problem created by the geographic concentration of investments in the southern region of the country and
the consequent aggravation of regional disparities, led to the creation in 1959
of the Superintendency for the Development of the Northeast (SUDEME). Its
responsibilities were to co-ordinate the activities of all government organisations

<sup>5/</sup> This section is based on an article by A.D. Hirschman, "Industrial Development in Northeastern Brasil and the Mechanism of Fiscal Credit from Article 34/18"; Brasilian Economic Magazine, Dec. 1967.

active in the "problem region" and organise a regional development programme which could foster high rates of increase in the regional product.

- 42. The main tasks to be undertaken by the organisation in reg onal economy were:
  - (a) Reformation of the archaic agricultural structure;
  - (b) Orientation of public investments in priority areas in the infrastructure sectors;
  - (c) Promotion of industrialisation.
- 43. One of the most interesting aspects in the analysis of the industrial development of northeastern Brasil is that of the political instruments available in promoting these objectives. Although on the international level a policy of oustoms protection is the strongest instrument in stimulating industrialisation, to abide by the rules set by a market occnowy at the regional level is impracticable because of the political implications that can result. In the majority of cases the preferred instrument has been fiscal exemptions.
- 44. Brasil is not exempt from the common faults of such policy such as the increase of lumnative businesses or insperativeness in diminishing lesses in businesses which have low rentability over their investment.
- 45. Starting from a cortain risk level the mechanism of fiscal exception is not efficient in etimalsting investments. This fact led to the adoption by Brasilian authorities of a Tributary Credit System to premote industrial development in the northeastern region.

# V. THE PRINCIPARY CHARLE STREET COMMANDE

- 46. Under this spoten it is possible for tem payers to deduct as much as 50 per cent from a temple income as long as this amount is invested in projects approved by SUMME for the mertheast. These deductions must be deposited in the Brasilian Northeast Bank and revert to the nation's treasury in case they are not invested within three years in one of the projects in the SUMME area.
- 47. The projects which are to be financed by the funds have to be approved by SUDENE as being of interest to the development of the region. However, the

Hirochmen cites as an example Puerto Rices "The fiscal examptions increase the lucrativeness of a new industry which is lucrative in itself, but contributes nothing to reduce losses in an enterprise, if this new enterprise does not reveal itself lucrative."

financing is not done totally with capital of the Brazilian Northeast Bank because the enterprise must furnish funds of its own. However, the bank may supply as much as 75 per cent of the capital required by the project if the project is given high priority by SUDENE.

48. An interesting aspect of the system is that the sum of the investor's own funds is determined from the standpoint of the project, not from the standpoint of the tax payor's contribution. Thus he not not invest his own money to finance the project. The contributor invests in preferential shares with no right to vote, while the group that enters with its own funds assumes total control of the enterprise.

## Functioning of the system

- 49. SUDENE is responsible for the project selection, control and execution; the liberation of funds deposited in the Brasilian Northeast Bank in accordance with the progress of the project; and the investment of the enterpriser's own funds. The careful selection of projects by SUDENE eliminates those with exaggerated expenses or those that could lead the Northeast Bank to participate with more funds than are allowed by law.
- 50. The system brought about the appearance of a captive capital market, because in the centres that furnish capital (Rio do Janeiro and São Paulo) middle-men who specialize soliciting funds through captation appeared. In some cases the contributors made the social capital an integral part of the project. But for the majority of the time this did not happen because the contributors proferred to participate as sharsholders in the investment.

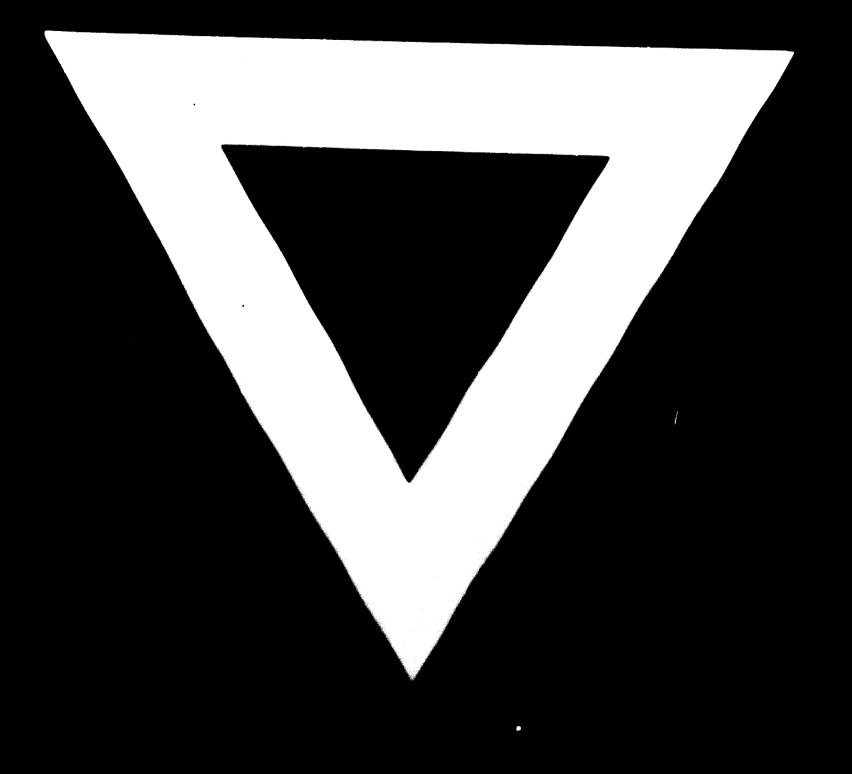
# Structure of the industrial compounds

- 51. Although every new enterprise cannot be attributed to the system, it is undemiable that the great majority of plans originated from it. It can be said that the system has doubled the count of the disposition of capital which existed prior to its existance.
- 52. In reference to the industrial product of the northeast and the composition of new investments, the majority are destined for the capital goods and

I According to directmen the disposure of capital in the region prior to the implantation of the system was about NCr Cl,800 million while the investments represented by the approved projects were NCc Sl,810 million.

intermediary sectors (67.4 per cent), in contrast to the industrial structure that existed in the region (1962) in which the majority was derived from the consumer goods sector (70.8).

- 53. Until mid-1957 the approved projects created jobs for about 68,000 people which represents 38 per cent of the total employment existing before the implantation of the system. This represents an increased capital/labour relationship which is derived from the composition of new investments. These figures, however, represent an underestimate of the total new employment because their multiplying effect will bring about important reflexes in the other sectors of the economy and open up new employment frontiers. The industrialization of the new region will stimulate changes in the agricultural sector and bring about the abandonment of the monoculture of sugar.
- 54. The high relationship of capital/labour of the new projects is not entirely legissole in an underdeveloped region with a large excess of available labour. In the case being unalysed this fact is due to the relatively low price of capital in relation to labour. According to Hirschman this is a consequence of the system itself, "When a method is sought to activate the investment decisions it is simply advantageous to subsidize the capital and not the labour, because the expenditures with the capital precede those of labour". A possible solution to the problem would be the utilization of second—hand machinery in the new industries which would require a relatively outdated technology and a smaller capital/labour relationship.
- 55. One of the greatest advantages offered by the system is its efficiency in the allocation of resources, mainly when confronted with the customs tariff system. When a resources, mainly when confronted with the customs tariff system. When a resources occurries use protectionist principles to stimulate industrial activity, new industries begin to work under exceptional market conditions to obtain high profit margins. Without a stimulus to increase productivity, eventually the new industries become a problem for the national accordy. An enterprise that instals itself in a region and utilizes the benefits of tributary credit must aim for distribution efficiency of its productive resources or it will not stand up against the competition of grods produced in the developed regions.
- 56. The credit mechanism employed to promote the industrialisation of northeastern Brazil has accomplished favourable results, and will help to diminish the disparities between this region and the central and southern regions of the country.



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