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#### **United Nations Industrial Development Organization**

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ROLE OF RURAL INDUSTRIALIZATION IN INTEGRATED RURAL DEVELOPMENT

IN PAPUA NEW GUINEA - PROBLEMS AND STRATEGIES\*

by

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<sup>\*</sup> The views and opinions expressed in this paper are those of the author and do not necessarily reflect the views of the Government of Papua New Guinea or of the secretariat of UNIDO. This document has been reproduced without formal editing.

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Fajuanew Guinea emerged as an independent nation only in September 1975. I would like to sty at the outset that I believe that the problems of Fajua hew Guinea in regard to shall a ale industry development are somewhat unique and they find no parallel perhaps in any oth r country. It must be that the people of Papua New Guinea bear a somewhat unusual relationship to the relief of the world, mainly for the reason that New Guinea has been cut off for centuries from extinual influences by an accident of geography. The situation, topography, character, climite of Papua New Guinea to which the migrant ancestors of the present inhabitants cause, probably because of pressure in the land of their origin, officered them a refuge that was well secure from contacts with the outside world. It should also be noted that New Guinea is the barget island in the world after Greenland. Houghly half of it comes under the administration of Indonecia and is known as Irian Jaya. The ar a covered by the new nation at the of Papua hew Guinea is roughly 130,000 square miles.

It is not my intention to dwell at length on the geogra hical leatures of Papua New Guinea however unique and interesting they may be, except to state that the topography of Papua New Guinea has been one of the major constraints to vapid industrial development. Nearly one third of Papua new Guinea is compose of the mountain peaks rising up to 10,000 ft and also as great an area is covered with swamps whire nothing can be cultivated or grown systematically. This has also meant that these mountains and extensive swamp lands have prevented the development of a good system of road or rail communic tions in a country which is quite large, with the result that most of the main urban centres of population are almost totally dependent on air or deal transport for companie tions.

Papua New Guinea has a population of only 2.7 million people. There is therefore the added aroblem that this consumer market which has a very low per capita income is also fragmented very badly into tiny and in some cases inaccessible parts. This is a other of the constraints for a small scale industry development in Fagua New Guinea. I shall refer to others presently. It is sometimes cheaper to import goods from Australia to some parts of Papua New Guinea rather than manufacture in another part of Papua New Guinea even though local rationatorials are used, because of the prohibitive costs of freight. -2-

Fortunately Papua New Guinea is endowed with a vast amount of natural resources, timber, minerals, forest and marine which along with its plantation crops such as coffee, coconut, rubber and cocoa have helped the economy to remain stable in recent years despite export price fluctuations. Even the dramatic fall in the copper prices did not have very serious reperoussions within the economy. Sound economic management with the objective of maintaining a hard currency by the new government has also helped the economy to remain stable and kept inflation at very low levels. The country is however presently greatly dependent on Australian Aid.

The manufacturing sector itself is extremely small in Papua New Guinea and very underdeveloped. Secondary industry contributes about 7% of the gross domestic products and employs 10% of the total workforce. The value of total manufactured output in 1974-75 amounted to roughly US\$250 million at current prices and employment in secondary industry manufacturing totalled roughly 16,000. Although the rate of growth of employment in this sector was fairly raid in the 00's - there has been a noticeable slowing down in recent years. Over the 4 year period 1972-1975 employment in the manufacturing sector showed an overall increase of only 5% with an absolute decline in employment in two of these years. Growth in employment has lag, ed behind growth and output in recent years. Output increased in real terms by 16% in 1973-74. and 27% between 1974-75. The industry group "Industrial Metals and Machinery" presently account for the largest share in total industrial employment. Slightly more than one third of the total manufacturing work force is employed in this category of secondary industry which includes general engineering, motor vehicle repairs, motor body building and repairs, airoraft construction and repairs, ship and boat building, m rine engineering, sheet metal work, plumbing, electrical and other machinery repairs. The two other industry groups "Food, drink and tobacco" and "Other Industries" employed the remainder. Apart from the narrowness of the industrial base what is most important and needs to be stressed is that nearly 98% of these manufacturing industries are owned and managed by expatriates. Also noteworthy is that the informal sector which is found in many other developing countries is totally non-existent in Papua New Guinea due partly to government restrictions such as excessive protection of licenced firms, over regulation of transport, commerce and industry and too much emphasis on the orderly development of towns. This is of course a legacy from the pre independence era. If we ignore the artefact industry which employs large numbers mainly on a parttime basis rural industry as such is also virtually non existant and has no

linkages whatever with urban industry. It is estimated that around 100,000 people are full-time or part-time employed in the artefact industry, which at the present moment is in a state of depression. The Government however has mounted a secue operation which appears to be yielding mood results.

The manufacturing industry in Papua New Guinea is also heavily concentrated in 3 provinces, Morobe, Central and East New Britain and located mainly in the urban centres of Moles y, Lae and Robaul. There are 19 provinces in Papua New Guinea and the case therefore for dispersal of industrial activity is extremely strong. For instance the Highlands region which is perhals the least developed in the country has the largest share of total population and also the lowest share of industrial activities.

Also of interest is that minimum wages for rural workers grew by 5% in real terms from 1971-1976. In contrast the urban minimum wage rose by 116% in the same period. As a result the urban labourer earns 3 times as much as the rural plantation worker or 2½ times the rural labourer. With a growing unemployment problem particularly among the educated youth, the inability of the manufacturing sector to provide widening evenues of employment is a matter of great concern to the Government. According to estimates made by the General Plasming Office if present trends continue, it is estimated that by 1984 there will be 310,000 school leavers without wage earning employment which could have very perious political implications. Unemployment apart, the wast disparity in income levels for urban workers and rural workers has accelerated the urban drift which has had a cumulative effect on unemployment, increase in crime, social tension, pollution, and squatter settlements in urban areas. All these have put further pressure on the government to eliminate the disparity in incomes.

As in many other developing countries, over 90% of the population are living in rural areas and most of them are involved in subsistence forming although with the widening of the cash economy there are a large number who are now involved in cash cropping.

The urgent need therefore is to divert a greater proportion of government resources to rural areas is clearly recognized by Government in its Eational Development Strategy which was published as a white paper recently. The strategy proposes to concentrate on reducing inequalities by creating income earning op\_ortunities in rural areas. The strategy will also be concerned with maintaining subsistence production and improving the range of subsistence goods.

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Urban development will be seen to complement rural development and lay the foundation for future industrial based expansion.

rapuallew Guinea has had the same experience or even worse than most other developing countries in regard to the provision of rural development services in that these services were very poorly co-ordinated, resulting in poor delivery and consequent loss of confidence of the rural folk in the work of poveriment departments especially prior to independence. Emphasis is therefore now being placed on planning at the grass roots level upwards r ther than the converse of the practice. The administrative system of P G has in f ct been characterized as the most centrilized amongst the developing countries. It is also till very much dependent on experience of the problems of developing countries.

Anoth r major step in involving rural people in the planning and decision making projects will be the establishment of provincial governments. Already a number of provincial governments have been established and it is likely that more will be established in the n ar future. I believe that the establishment of provincial governments will make easier the task of sural industrialisation because up to now due to the overcentralisation of the bureaueracy mentioned above, that he has been a lack of communication between rural areas and the decision makers of the central government and also as insensitivity to rural needs at the surface for the fore the Government of Papua New Guinea has great nopes that programmes for rural industrialisation within the formework of integrated rural development will create income errning opportunity for the rural geople, particularly the self-emplored.

It is however my view that there are so many constraints in regards to the development of rural industrialis tion and small industry in Papua hew Guinea that this process can only be a very slow, painful and difficult one. It would be unwise to paint romantic pictures of the potential for instance of rural industrialisation in Fapua hew Guinea particularly over a short period with the difficulties and constraints that presently exist and also for the reason that the resources available to those involved in the promotional effort are most inadequate. The foveramint is aware of this. It must be noted that Pagua New Guinea before the arrival of the Europeans, had no history of usage of metals. The technology was cone, stone and wood and even to any there is not one single blacksmith in Papua hew Guinea, nor for that matter can you find a single shoemaker. This is also perhaps indicative of the dominating influence of trusteeship by a country that was industrially advanced as blacksmiths are rare

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in many industrially advanced countries. The while was unknown until European contect 30 years ago and even today admals are not used for agriculture or for haulage. The village economy is basic lly a norticultural economy based on shifting sultivation of roots and yams and juite different from the rice culture villages of many asian countries. Apart from the lach of roads, power, water and transport, articla shills are generally not available in nost village areas to support any to campe of rural industrialisation although with the growing number of young people turned out by technical colleges this situation might improve in the future if they raturn to the village, pasically therefore, at the present time the infrastructure of the village economy in Papua New Guinea in most areas cannot support any scheme of raid rural industrialisation except parhaps cottage industry at the very most. Like many other developing countries, F.G is a cual economy. But here again it is a dual economy with a difference. ... one writer has observed ... ".. It's economy is a paradox. It is primitive, less coveloped and modern all at the same time. Unile the primitive Subsistence Sector of the economy reminds us of the features of the horticultural society which existed about 10,000 years ago; its modern sector particularly trade, money and banking, urban housing and construction and communication such as Posts and Telegraphsreminas us of the characteristics of a modern industrial state such as Australia..."

there are also a number of other factors which militate against rapid aevelopment of rural industrialisation in Papua New Guinea. There are for instance cortain socio-cultural factors which are also particularly unique, such as the existence of what is popularly known as the wantok system. In Papua Hew Guinean societies the right to livelihood is in effect gu ranteed as a normal right of membership of a clan or tribal group. It is a social right to receive support and help from friends, kin and leaders of the clan in times of peace and war alike. In the primitive affluent society of the past. foar of hunger had never seted as an incentive to participate in conomic activities. Even the que t for profit or individual self interest cannot be considered to be an adequate explanation for economic activity. The expanded femily or tribe that is the wantok system was the basic and till is the basic unit of the subsistence sector. Although in Piagin Mentok means a person who speaks the same language, it is rally a group of people speak as the same language and sharing similar int rests and goals based on the principal of reciprocity and common amountry. Although Fagua Low Guinea is charaing r pilly and society is becoming molernised, this would have been continues to assent considerable influence and in fact with the pressures of modern society

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and the rapid growth of population involving problems of unemployment the wantok system has not disintegrated but it would appear it has become even stronger. Because the people leave their traditional homes and seek employment in other areas, the wantok system guarantees them some form of security. in fact it is an inbuilt system of social security. This wantok system has come in for very serious criticism as being a system which is detrimental to the development of entrepreneur initiative. The incentive to work for a successful businessman entrepreneur is completely destroyed because he has to share his profits or he may have to share his profits with his less well off wantoks. He himself would only get a fraction of what his efforts should merit. On the other hand, the opposite view has been taken by one or two other students of the system who claim that the wantok system has a considerable amount of merit and it could be in fact a very powerful force for promoting rural industrialisation in that clan leaders in the village have through the wantok system a pool of resources at their disposal. Copital, labour and possibly technical know-how which would not be normally available to an individual would be available through the wantoks as a group. Being linked together by bond of common kinship problems of minimum wages, working hours etc. would not rise and the group effort could be superior as in the paternaiistic system that operates in Japan. There is however little evidence to support this in the inductrial field so far although some evidence to support it exists in the commercial sector. Our own experience in the field of industry has so far been to the contrary. Two potential entrepreneurs sponsored by us in the field of shall industry have failed recently because of the wantok system.

There are also certain other difficulties and problems in promoting small scale incustry in Papua New Guinea and these are applicable to rural industry too. These too are legacies from the past. One of them is that although there is a government policy directive for preferential purchase by government purchasing organisations of goods manufactured locally, in actual fact this policy directove is never carried out as it should be. There is always the tendency to reject goods manufactured by small scale industrialists on the grounds of quality in that they do not compare favourably with the imported goods. We have had many struggles on this issue with government purchasing departments and we feel it will be a long time before we will be able to convince them that in the initial stages in the interests of small scale industry development some tolerance must be allowed in regard to the quality of locally manufactured products. Attitudes like this die hard because for years they have become part of bureaucratic thinking.

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As regards protection for small scale industry too, Government policy has yet to be clearly defined. Up to now, no definite statement is evailable as regards the extent of protection government is prepared to offer small scale industry. In its statement of Lational Development strategy the general statement is made that protection will be given only to locally manufactured goods that are competetive with imported goods. This stat ment of policy is somewhat vague and I gravely doubt whether in actual fact protection could be granted on the basis of a statement like this unless precise guidelines are given. Presumably these guidelines are under study. By and large the tendency of the government thinking so f r has been to resist any requests for protection on the grounds that protection would raise living costs for the masses.

Still another problem which certainly does not exist in most other developing countries is that in rapua New Guinea the distribution outlets are largely monopolised by a few expatriate firms. Even though the goods manufactured by the local small industrialists are competetive in price and quality of the expatriate firms handling distribution through the country choose not to buy from them and prefer to continue their association with their foreign suppliers there can be no hope whatsoever for the small industrialists to operate on an economically viable basis particularly in view of the fact that the markets are fragmented in Papua New Guinea.

The high wage structure both in urban and rural areas is another constraint to the develorment of small scale industries. This is also a legacy from the colonial cra. The wide disparity between the urban and rural w ge will also naturally attract the more skilled artisans to move to urban areas. Again despite government's anxiety to encourage rural industrialization it will not support the grant of financial incentives for persons to locate industry in rural areas as it may create an elitist class which is counter to its egalitarian policies.

The manufacturing sector is also dominated by capital intensive and labour saving technologies possibly to offset the high labour costs. This has to a large extent influenced the thinking of Papua New Guineans who have been technically trained. The tendency is always to throw away and replace rather than to repair. This attitude is of course quite different to many other countries where every effort is made to repair rather than replace in order to save foreign exchange and increase employment opportunities.

There are yet many other difficulties, the magnitude of which I believe are not equalled in most developing countries. A major one of course is the problem of finding entrepreneurs to undertake small scale industry projects. This is of course a problem common to all developing countries. I am aware of the fact that even in India which has a long history of industrialization that there are programmes for the development of entrepreneurs even today. In other countries too, entrepreneur development programmes are being mounted. In Palua Hew Guinea however, the number of indigenous entrepreneurs engaged in industry is but a handful at the most. Rational entrepreneurship in fields other than industry, such as retail, tore, transport, buying and selling of cash crops is only of very recent origin - the last 10 or 15 years. Even in the urban areas where there are large numbers of educated Papua New Guineans we have found it virtually impossible to find entrepreneurs to undertake small industry projects as man gement of such projects involves the condexities of purchasing raw meterials, organising of production, merketing etc. With a programme of localisation of business being now implemented by the gov rament it is only natural that those nationals who are interested in entering the field of business would prefer to move into the less complex and less sophisticated areas such as retail trading, transport, plantations, rather than get involved in the complexities of industrial menagement of which they have no experience, as they have never been exposed to an industrial culture. The situation of course is worse in the rural areas.

So we see that Papua New Guinea despite its great need to develop industriesboth large, medium and small to diversify its economy and activate its rural people, is faced with considerable difficulties and handicaps which cannot easily be overcome both in urban areas and rural areas. It should also be noted as a matter of policy, the government expects the privite sector to promote industrial development in Papua New Guinea and it is only if the private sector is unable to effectively promote industry that it will step in.

In circumstances such as these our position as promoters of small scale industry was certainly difficult. Should we abondon the whole programme of small scale industry until a later date when perhaps the preconditions for small scale industry development were better and utilise the resources earmarked for small scale industry development in another sector, where the problems are not so complex ? Or should we persist in our endeavour to find a solution to these problems ? It is one thing to promise people from the platform and government hand-outs that a new era for small industries is about to dawn and it is another thing to be actually able to make that are a reality by translating policies into programmes of action.

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In addition those responsible for small incustry promotion in Papua New Guinea, with their meagre resources, had the dual task of not only having to convince and stimulate the private entrepreneur of the virtues of industrial development both at the rural or the urban level, but also to convince those who man the commanding heights of the bureaucracy that stated government policies are r ally workable ones so that the maximum financial support could be obtained. As I have said earlier it takes time for bureaucracy to re-orient its attitudes towards programmes and policies designed to achieve goals different to that of a previous era.

The task of those responsible for small industry promotion was therefore not an enviable one. In short, unless results were to be seen on the ground it was extremely difficult for essential staff and funds to be obtained which were necessary to make a meaningful impact on small scale industry development.

Although the Division of Small Scale Industry of the Department of Business Development was created about 4 years ago there is yet not one single officer in this Division with any specialised knowledge and experience of small scale industry promotion. Until very recently national officers were not sent abroad on courses of training an small scale industry promotion. The division in fact consists of a misser lancous collection of persons with an equally miscel aneous collection of scills. To their credit however, it must be said that they have responded magnificently to the task of demonstrating the benefits of small industry development to the country. It is therefore most unfortunate that due to budgetary constraints the UNIDO Programme of Small Scale Industry Development in Papua New Guinea has to be implemented in a rather limited way although it is providing the initiatives, even sadder is the fact that very little has so far materialized from the C.D.C. programme which could have been of immense help.

We are however convinced th t des ite what I have said about the numerous constraints that exist in Papua New Guinea in promoting rural industrialisation and small scale industry development in general, there is still considerable scope for small scale industry development, particularly in regard to industries which utilize local raw materials and simple technologies and particularly those which will have wide rural as lications - provided the fullect support is received from Government. Hany of these industries may well have been developed earlier had not Papua New Guinea been in close proximity to Australia and if Fapua New Guinea had not been so dependent on imports from Australia which have tended to obscure the possibilities of small-scale indu try development. But the task of doing so will be a hard and difficult one.

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In the situation therefore in which the Collice of Business Development was of ced. it was decided that there was no alternative but to adopt the rather bold but risky strategy of directly independing a number of small scale industry projects as demonstration projects in the bet may no could. It was clear th t the conventional trategy for coveloping shall call inon try, murely the offering of a pec age of incentives to the private entrepreneur such as provision of a wide range of industrial advisory dervices, training scheme for entrepreneurs, credit on reasonable terms, factory accommodation with supporting services and utilities. financial incentives atc., would not produce tangible results for the reasons I have already mentioned above. ln addition. it would be virtually impossible to obtain additional funds from Government for the staff and other resources that would be necessary to provide this package of incentives. We were of course p rfectly ware of the weaknesses and can ers of adopting such a strategy and in f ct we had been warned against attempting to do so by the UNIDO team of experts who disited Papua New Guinea in 1.75 who made a number of recom end tions regarding the development of small scale industry. It was also very strongly felt that the Division of Small Scale Industry of the Office of Business Develoment. after years of fruitless endeavour, could only justify its very existence by demonstrating tangible results in the field, and not any more by some submitting memoranda extolling the virtues of small scale inductry and offering advice to non-existent encrepreneurs. There was of course the other alternative mentioned earlier of advising government that in the socio-economic context of Papua Lew Guinea, the time was not ripe to mount a programme for the development of small scale industry, which course of action we did not think was justified by the facts.

Accordingly we are now in the process of implementing, despite the enormous handicaps of working within the joverment framework, a number of projects, many of which are now in the initial stages of production. Rearly all projects are resource based with wide rural application and linkages both backwar and forward e.g. leather and tanning; salt; sericulture; timber products; rubber moulded joods; coir products; shells; boat building; saltfish; weaving; handcraft; baking and confectionery. Some of these inductries have export potential. Most important, we appear now to have succeeded in convincing the decision makers who allot resources, as substantial additional resources have become evailable.

Although we have not mounted as yet an entrepreneur development programme, due to lack of staff, we have adopted a strategy of endeavouring to identify suitable Papua New Guineans who have entrepreneurial potential t be sent abroad for

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training in particular fields so that they may beturn and start their own industry. Quite a number have already been abroad to obtain traising and we expect them to set up their chosen industries soon. We have naturally diven preference to these potential entrepreneurs who will be setting up industries in semi-urban or rural areas.

The establishment of a para-statal organisation to implement small industry projects has been considered. It is likely that such a proposal should have the support of the Development Bank and the Investment Corporation both of whom re also greatly int rested with small industry promotion. The Development Bout has already jone into one or two small cale industry projects in joint venture with Fagua New Guineans by taking shares in the equity capital of the undertaking and not merely by the grant of a loan. owever in the present context of Pajua New Guinea I feel however that the Develoyment Bank world play a much more synamic role in catablishing small cale industry with the objective of later hiving it off to some private entrepreneur at a later date. The Development cank is in a for better position to do this than ourselves as they have much greater flexibility in operations. The primary role of a parastatal organisation such as I have mentioned ab we will be the implementation of small scale industry projects. The work of promotion of small scale industry should however remain with the Office of Bus ness Development. When the tec mical feasibility and economic viability of a particular project is established by this parastatal second it will endeavour to hive it off to a suitable entrepreheur. A candidate entrepreneur will be selected initially as a trainee manager of the project and if he proves himself the project will be transferred to him when its viability is a bablished. The bavelo mont Bank or a commercial ban, will provide finance.

It is also our intention to set up industrial common facility centres in urban and semi-urban areas from where work would be sub-contracted to individual, group and vocational schools in rural areas. In fact we are already doing this in the cape of certain projects. These centres we hope will be growth centres of the future.

There is no question therefore in our minds whatever that despite the many obstacles that presently exist in the way of rapid rural industrialisation in the context of Papua New Guinea, rural industrialisation has an important and vital role to play in any scheme of integrated rural development. Nost of the projects we are presently implementing as mentioned earlier will be based on local resources and involve the closest co-ordination with other government departments and also the active participation of rural people with linkages both one wards and forwards.

It is also our objective to promote the vertiary sector in villege areas. The vectorical trained youths who are returning to the village — cold earn a living as servicement and owners of small workshops etc. which will be necessary to service the growing needs of "griculture, industry and transport in sural areas consequent to the divers on of greater government resources in these greas in terms of its a tional Development strategy.

However, one of the central tenets of the philosophy of integrated rural development is participation by rural people in identific tion, evaluation and implementing of projects. In the present socio economic context of HIG for some time more I cannot homestly see any real entrepreneurial initiative emenating from rural folks as far as aural industrialisation is concerned. Even though it is true that in other developing countries where there has been a large and flourishing handicraft industry it has be a the breading ground for indigenous entrepreneurs the same cannot be said of Papua her Guinea despite the large numbers presently involved in the artifact industry. However, with the devolution of powers to provincial government there will no doubt be ere ter opportunities for mass participation in the process of rural industrialis tion. Increasing education opportunities for young people will also widen their horizons and it is also more likely that provincial and village development corporations will take over the function of implementing rural projects including small industry projects in the not too distant future. We are confident that our strategy of attempting to play a catalytical role will ultimately be successful in actively promoting rural industrialisation though we shall have to predict many setbacks.

We no of course conscious of the fact that industrialization must inevitably lead to changes in ways of life in the willage and some disruption of the existing socio economic fatric much more than any other. This is inescapable. The people of Papus New Guinea are very sensitive to the need to preserve their own cultural and social values and what they call the Helanesian way of life. Alr ady they are greatly disturbed that modernisation of society is eroding these traditional values. Great care therefore will be necessary when we promote industrialisation to ensure that the damage to existing social and cultural values which are so dear to the people are minimal. This is of course easier said than done. Equally the rural man must learn to understand clearly the disciplines and the work ethic of industry without which, as we all know. any scheme of rural industrialization must fail.



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