

## SOCIAL SCIENCE RESEARCH ON INTEGRATED RURAL DEVELOPMENT IN SOUTHEAST ASIA

By

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### Introduction

A host of technological advances in rural life during the past decades has opened up for the first time the possibility of substantially improving levels of living in the rural areas of monsoon Asia. For centuries, the Asian rural communities have been caught in the poverty trap of monsoon paddy farming with its enormously high labor requirements during peak seasons and long period of idleness during slack seasons. In Japan, there were steady increases in rice yields before the Second World War, but no substantial changes took place in the countryside. The rural transformation took place only in the past three decades but had to be preceded by fully two generations of institutional and technological changes.

Per capita incomes in rural Japan are nearing \$2,000; mechanization on the farm, in the villages, and in the homes is extensive; high levels of general education and scientific agriculture prevail everywhere. Health services, amenities, communications and transportation in the villages have been largely modernized. Disparities in the distribution of incomes and of opportunities are minimal, and independent cooperative institutions and self-government exist everywhere.

No such rural transformation took place elsewhere in monsoon Asia, although in rural Taiwan significant changes are now occurring with per capita incomes surpassing the \$700 level. In the South

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Korean countryside, these changes may be about to begin. In China rural development with emphasis on equititarianism is reported to be highly successful. In Southeast Asia, living levels have improved somewhat for the peasant but still remain substantially as of old.

Moreover, the roots of problems confronting Southeast Asian urban areas — underemployment, poverty, over-population, congestion, underutilized industrial capacities, etc. — appear to lie in the countryside. A consensus is emerging that national development strategies must emphasize rural development if nationwide social problems are to be solved. And perhaps if these are adequately attended to, the frequency of economic crisis of balance of payments, inflation, and exchange rate, and political problems may lessen, and the problems of growth and distribution of income may be easier to handle.

It is therefore understandable that the countries of Southeast Asia and the international agencies such as the International Bank for Reconstruction and Development (IBRD) and the United Nations Development Program (UNDP), aid agencies in the U.S. and other countries, and private foundations like Ford and Rockefeller, are turning to rural development programs. The World Bank, for example, is planning to use about one-half of its total lendings during the next five years for rural development projects, aimed especially at the smaller farmers. With such a massive shift in lending and aid programs, rural development research is certain to come to the fore as the leading area for social science research, especially because not much attention has been paid to this area, and our knowledge is relatively meager.

In this paper, we shall describe briefly the nature of some of the rural development programs in operation in Southeast Asia, then attempt to identify some of the gaps in our knowledge, and then conclude with suggestions for research. The literature is mounting but of uneven quality, scattered here and there, most of it buried in files. They are still no more than descriptive ad hoc reports. We found it necessary to interview various scholars and administrators in the forefront of rural development work.

### **A Brief Review of Rural Development Programs**

In this section, we will first describe micro models of integrated rural development and then go on to the macro programs. In the



informer a model is applied experimentally to a small group of villages while in the latter a governmental program on a nation-wide or regional basis is undertaken.

Perhaps the best known type of integrated rural development in Asia with a relatively long tradition is connected with the name of James Yen. The approach developed by Yen has been propagated in various countries, in and outside Asia, by the International Institute of Rural Reconstruction (IIRR). One of the characteristic features of the approach is its fourfold program comprising of—(1) livelihood, (2) education, (3) health and sanitation, and (4) self-government. The territorial focus is a group of villages (10, 20, 50, 100) and, within the village community, the individual farm family (14). In its recent activities the IIRR and its Philippine counterpart, Philippine Rural Reconstruction Movement (PRRM), seem to have abandoned the individualized approach and are moving in the direction of the institutional approach which recognizes that an individual farmer can improve his condition only through the support of his fellow farmers and that a village community can develop itself only when it is supported by the surrounding village communities (18).

The studies in which the various models or programs are evaluated are mostly historical or descriptive; some are comparative analytical. The method most frequently used is the comparison of data from surveys conducted before and after the program but this method does not tell us much about the process of transformation itself. Another method frequently used in the appraisal and evaluation of rural development projects is the cost/benefit or the input/output analysis. However, no research method applied so far has been able to identify the necessary conditions for self-sustained growth in rural communities, and even less, the methods to bring about those necessary conditions. Most research studies on rural development in Southeast Asia originate from private or semi-private national or international development institutions such as the Joint Commission on Rural Reconstruction in Taiwan, the Social Science Institute in Thailand, the International Institute of Social Studies in Indonesia, the International Rice Research Institute and the International Institute of Rural Reconstruction in the Philippines, FAO, ILO, UNESCO, UNDP, ADC, ECAFE, USAID, and the institutions of higher learning in the various countries.

Some of the universities are connected with so-called social laboratories that are integrated facilities combining demonstration,



training, and research. Although the Philippines has presently such laboratories connected with higher institutions of learning, best known so far are the Social Laboratory of the University of Philippines College of Agriculture and the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (UP-SEARCA), established in July 1970. In Korea a similar social laboratory is operating under the auspices of the Seoul National University College of Agriculture. These social laboratories are of recent origin and are carried out on a small scale with inadequate resources. A good number of interesting rural development experiments are going on in various parts of Southeast Asia, small as well as large projects. Few projects, however, are under the close observation of social scientists.

As to macro-programs, there are similarities in the components of these programs in Southeast Asian countries, perhaps more inspired by the example of Taiwan, and, to a much lesser extent, by social science research in the respective countries themselves. The common elements, although differing in the details, are infrastructural rehabilitation, land reform, establishment of institutions, and attempts to diffuse modern HYV's.

When in 1949 Taiwan started its planned effort toward rural development, it had the advantage of a series of favorable conditions: namely:—extensive infrastructure (good roads, a well-functioning railway, electricity, irrigation systems), and a motivated people with a high level of literacy (60%). Taiwan's rural development has been connected with the catalytic operations and activities of the Joint Commission for Rural Reconstruction (JCRR) which was amply funded by foreign sources.<sup>1</sup> JCRR has stimulated through financial and technical assistance nearly all aspects of rural development in Taiwan. It started its work with emphasis on crop improvement and irrigation, and gradually expanded its scope to include land reform, rural health, animal husbandry, forestry, rural economic fishery, farmer's organizations and credit. With respect to the organization and administrative set-up, Taiwan's model of rural development demonstrates the importance of effective integration at the three levels of decision-making: that of the government which provides the social overhead, the infrastructure and capital investment; that of the

<sup>1</sup>S.C. Hsieh, "The Joint Commission on Rural Reconstruction in Taiwan: Rural Asia Marches Forward: Focus on Agricultural and Rural Development," Los Baños, Laguna: University of the Philippines College of Agriculture, 1966, pp. 408-420.



ly farmers through their organizations, which take care of cooperative marketing, water distribution, pest control and technical advancement; and that of individual farmers who decide on the adoption of the available divisible inputs.<sup>2</sup>

Initially the Malaysian government adopted a paternalistic approach towards rural modernization. Quick and visible results with regard to the various aspects of rural modernization were the overriding goal. To convey the image of an effective and responsive government the bureaucracy was mobilized to produce a "development cover crop" of roads, bridges, schools, mosques, temples, community halls, wells, clinics, and piped water stands.<sup>3</sup>

Towards the second half of the 1961-1965 Five Year Plan the policy makers began to realize that the construction of physical infrastructure by itself was at best a palliative to rural neglect. In the Five Year Plans that followed, the administrative control was shifted from the Federal and State government to the District Office. The self-government aspect was emphasized through bottom-up planning.

The establishment of Village Development Committees was another attempt to foster local involvement in decision-making and to promote leadership. Furthermore, the rural development program for 1966-1970 went beyond the provision of physical amenities by emphasizing the priorities of agricultural education, extension services, research, modernization of farming techniques, increased pace of land alienation and development, and the setting up of marketing and credit institutions.

In the second Malaysia Plan (1971-1975) the modernization of agriculture, the integration of the rural areas with the urban sector of commerce and industry, land development and improvement, and the establishment of new agriculture-supportive institutions are the core of the new development strategy.<sup>4</sup>

<sup>2</sup> H.C. Hsieh, "Taiwan's Model of Agricultural Progress, Potentials of Small Family Farm and their Implications for Other Developing Asian Countries" in W.A. Douglas Jackson (ed.) *Agrarian Policies and Problems in Communist and Non Communist Countries*. (University of Washington Press, 1971), pp. 381-397.

<sup>3</sup> Chee Stephen, *Rural Development and Development Administration in Malaysia*, SEADAG Paper on Problems of Development in Southeast Asia, 74-5, New York: The Asia Society, April 1974, 38 pages.

<sup>4</sup> Martin Rudner, "The Malayan Quandary: Rural Development Policy Under the First and Second Five-Year Plans", *Contributions to Asian Studies*, Vol. I, 1971, pp. 190-204.

Nevertheless, the administrative set-up for rural development at the village level left much to be desired. Numerous government institutions sometimes operated at cross-purposes, and often overlapped. It has been observed that the creation of modern institutions in the countryside has been all too often confusing to the peasantry.<sup>5</sup>

As in the case of Taiwan, the side by side existence of Farmer Associations and agro-based cooperatives has been the source of many conflicts. In 1973 the two institutions were amalgamated into a new body called the Area Farmers Organization (AFO) under the supervision and control of the Farmers Organization Authority (FOA). Another reason for this reorganization was that the Farmer Associations became too powerful and thus a potential threat to the status quo.

The Saemaul Wundung (New Community Movement) is the Korean version of IRD. In the belief that immediate visible results strengthen the people's self-confidence and develop their cooperative spirit, the government started with a nation-wide environment improvement program which included repair of river banks, widening of feeder-roads, and repair of small water reservoirs.<sup>6</sup> The government allotted to each village a specified quantity of materials (mainly cement and steelbars) while the village people themselves were to provide free labor and whatever equipment and materials were available in the village.

The overall responsibility of the Saemaul Movement has been entrusted to the Central Coordination Committee composed of twelve members representing different ministries and headed by the Minister of Home Affairs. Similar Coordinating Committees were established at the provincial, town and village levels.<sup>7</sup>

The Saemaul Movement is reported to have brought about a remarkable change in the rural areas of Korea although comprehensive

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<sup>5</sup> Chee Stephen, *loc. cit.*

<sup>6</sup> Sung Hwan Ban, *New Community Movement in Korea*, Part I, General Discussion, Korea Development Institute.

<sup>7</sup> "Topics for Discussion", paper submitted to *The Fifth General Session of the Aarso Conference*, The Republic of Korea, (Philippines, February 24-March 3, 1975).



and systematic studies, except for the reports of the government, are not yet available.<sup>8</sup>

The Accelerated Rural Development Program of Thailand was conceived in 1963 to improve the living conditions of the rural people and to encourage them to stay on the land instead of migrating to the urban areas.<sup>9</sup> To achieve this, the plan's main strategy was the modernization of agriculture through the provision of agricultural extension services, rural roads, marketing facilities and rural electrification.

To facilitate supervision the country was divided into five regions, each composed of 10 to 15 provinces. The activities in each region were coordinated by a Regional Development Committee. However, the existence of many competing development agencies, private as well as public, made coordination extremely difficult.

In Indonesia, various programs for rural development have been planned at various levels of government. However, the program that comes closest to the IRD concept is the Desa or village subsidy program. Under this program each village has been receiving a project subsidy of Rp. 100,000 (about \$2,500) annually from the Central Government for the purchase of materials not available within the area. Together with the labor contributed by the villagers, these inputs were meant to form the beginning of a decentralized improvement program.<sup>10</sup>

The projects were to be relatively small, within the competence of the people, and located close to their homes so that there would be no need for work-camps. The village people themselves prepared the plans for the projects with minimal assistance from government technicians. Furthermore, the projects had to be timed to coincide with the off-season period when unemployment was most serious.

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<sup>8</sup>Ji Woong Cheong, ed., *The Development of Human Resources in Rural Korea: General Information and Case Studies*. Report by The Korean Delegation at the Development of Human Resources in Rural Asia Workshop, Thailand, August 4-26, 1974.

<sup>9</sup>Nipo Boonyapataro, *Rural Development in Thailand*, Fifth General Session of the Afro-Asian Rural Reconstruction Organization Conference, Manila, Philippines, February 24-March 3, 1975. 13 pages.

<sup>10</sup>Dibyo Prabowo, et al. *The Impact of Government Subsidy Upon Villages* (Gadjah Madah University, Yogyakarta, 1973).

Since the projects had to be channeled through the bureaucratic machinery for approval, i.e., from the village through the Kabupaten (county) to the provincial government and finally to the Central Planning Bureau, the funds did not always arrive on time. The result was that some projects were undertaken during planting or harvesting time and absorbed the laborers who were badly needed in the field. Furthermore, it frequently happened that the projects, because of their technical nature, did not absorb the idle laborers but the skill technicians who were already employed elsewhere.

The Kabupaten had their own independent program intended for the creation of employment in the rural areas more than for the rehabilitation of infrastructural facilities. They usually concentrate on projects which were beyond the competence of the Desas.<sup>11</sup>

Following the same policies as the Desa Program, it encountered problems similar to those mentioned for the Village Subsidy Program. Part of the strategy of both programs was that the individual projects should supplement, and not complement, one another. In other words, each project should be a unit in itself and not be dependent on or a part of other projects.

The most recent development in the rural program of Indonesia is the revival and strengthening of the village cooperatives which have been neglected since the coup in 1965. The rice self-sufficiency program, called BIMAS, is perhaps the program most publicized outside Indonesia. It was a short-term impact project with rather disappointing results.<sup>12</sup> Besides the poor loan repayment, the project has been criticized especially for dealing mainly with comparative well-to-do farmers who benefited most from the public irrigation system, the availability of institutional credit, the improved access to input and product markets. This has widened the income gap between the BIMAS farmers and the majority of their compatriots in the rain-fed areas.

Rural development in the Philippines is a package of loosely coordinated components conceived and planned at different points in time by different government agencies, and in some way

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<sup>11</sup> Y.B. de Wit, "The Kabupaten Program," *Bulletin of Indonesian Economic Studies*, Vol. IX, No. 1, March 1973, pp. 65-85.

<sup>12</sup> Rural Development Panel Seminar, September 18-20, 1972, SEADA Report, New York: The Asia Society, p. 7.



another made to fit together in the country's recent socio-economic programs. The rallying point of rural development in the Philippines today, however, is the Samahang Nasyon (SN). The SN is a simple village-level organization governed by cooperative principles and practices which perform mainly educational, social, and cultural functions. It is the basis of the new cooperative system.<sup>13</sup> The program is under the auspices of the Department of Local Government and Community Development (DLGCD). The staff of the abolished community development agencies which the DLGCD replaced, together with the field personnel of the Bureau of Agricultural Extension, the school teachers in the rural areas, the field personnel of the Department of Agrarian Reform and a number of newly recruited and trained fieldworkers, are in charge of the organization and development of the SN.

The SN is conceived to be the channel through which vital services in technology, financing and marketing will eventually be brought to the small farmers.<sup>14</sup> The policy goal of the SN is to reduce income inequalities by replacing the existing exploitative structures and institutions of middlemen, private money lenders and landlords. The program is in its second year and not much can be said yet about its effects on rural life in the Philippines.

BIMAS-type commodity programs have also been adopted in the Philippines, the more important of which are the Masagana 99 and the Masagana Maisan. The main function of these short-term crash programs is the distribution of loans at easy terms. As in the Indonesian case, the results after two years of operation have not been as expected, especially in the poor repayment of the crop-loans.

From our preliminary review we have come to the conclusion that very limited research has been done prior to the planning of the various macro rural programs in Southeast Asian countries. Goals and policies set forth by governments sometimes seem incompatible with one another. For example, policywise self-reliance and active participation of the rural people is encouraged. On the other hand, it

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<sup>13</sup>Terso, Jr. and E. Clemente, "The New Philippine Cooperatives Development Program," paper presented at the Afro-Asian Rural Reconstruction Organization Conference (February 24-March 3, 1975, Philippines), p. 17.

<sup>14</sup>*The Philippine Community Development Program* (Department of Local Government and Community Development, Bureau of Community Development, 1974), p. 67 with charts and photographs.



has been observed that self-reliance and active participation of people could be promoted only through strong grassroots-based people's organizations.<sup>15</sup> However, their promotion is considered undesirable because of the possible harmful effects on the political status quo.

### Problems and Gaps in our Knowledge of Rural Development

Many questions and issues emerge in surveying the present state of knowledge, as is to be expected in any complex and broad area such as rural development research in Southeast Asia. Like business cycle research at the time W.C. Mitchell started his work, even an agreement on the *definition* of rural development is not discernible in the literature and the interviews. Studies on the above which begin with a discussion of definitions stress the word "integrated" referring to some kind of a package of programs, projects, and their inputs. The economists usually have in mind a package of inputs (including institutions and technology) for a program of agricultural development. The non-economists think of integration as a much bigger package of programs — development of health, education, and institutions, as in the case of James Yen's rural reconstruction movement. Nevertheless, not just any program (for example, public works) for rural areas is sufficient. The word development in integrated rural development, connoting the goal of sustained long-term rural changes rather than transitional changes, will rule out programs such as the BIMAS in Indonesia and Masagana 99 in the Philippines which are intended to increase employment, or certain production up to self-sufficiency. And some of the land resettlement schemes of Malaysia, the Thai Northeast insurgency program and the past Indonesian transmigration and Kabupaten programs probably are not good examples of integrated rural development schemes.

There is no point in attempting to do research on the definition of rural development at this early stage in our experience. It took W.C. Mitchell and the NBER three or four decades of research before Mitchell was able to identify business cycles, isolating them from short-term seasonal and stochastic movements, and from long-term trends (growth). Even then, the identification was not complete, as can be seen in the acceptance of long-cycles or Kuznets cycles which

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<sup>15</sup> Antonio L. Ledesma, Angelita Y. Ledesma (ed.) *Dialogue with Asia: Rural Man: A Report of the Development of Human Resources in Rural Asia Workshop* (DHRRAW), Bureau of Asian Affairs, Thailand, August 4-25, 197



are neither trends nor business cycles. For present purposes, we may have to be satisfied with a definition of integrated rural development (IRD) as schemes with some kind of a package intended to bring about sustained, long-term changes in the rural areas, leaving the broader term, rural development, to refer to all kinds of programs (short-run, unpackaged, etc.).

To bring some order in thinking about the limitations in our knowledge, we need a framework for classifying the various problems and issues in IRD research. The goals of development will be thought of not only as the rapid growth and fair distribution of rural incomes but also as the broadening of educational, health, and political opportunities. The reasons for starting with this broader definition of IRD are heuristic: (1) it may be that per capita rural incomes in Southeast Asia are so low that whatever their distribution, opportunities for education and health may be severely limited; (2) a bigger package of programs may be suitable at the outset to study the strength of interrelationships between the outputs and inputs within and between each program and its various projects; and (3) in order that sequences, timing, and priorities within one geographical area and within one stage or planning period (say five years) can be studied. It is within the context of this framework of definitions and concepts that we propose to proceed with the discussion of research areas. The entire IRD package is conceived of as comprising three or four programs, with each program containing specific projects and goals (i.e., outputs) with inputs (including technology and institutions), these outputs and inputs interacting not only between projects within each program but also between projects and programs, during specified periods of time. Thus, since each program has more than one project and more than one goal (or outputs, e.g., rice, corn, fish, vegetables, handicrafts in the income program, and better nutrition, family planning, sanitation, etc. in the health program), there is not one equation in each program but several, and the interrelations are complex.

The first set of problems suggested by this framework is the identification and selection of the projects and their various goals, inputs, interactions, sequential ordering, time and place coverage. But so little is known about rural development processes, that not much can be said. Many of the persons interviewed by us felt that all these problems cannot be solved until we know much more about the detailed process of change in each aspect of life in the villages and linkages in the processes among different programs and projects



(1, 2, 3). How do we go about learning something about the process of change? Before we can comprehend the whole, we need to know the process of change in the various projects and programs.

An often cited cause for the failure of rural development programs is the indifference or lack of interest of peasants either participating in specific projects in the programs to increase income, knowledge, health or in decision-making.<sup>16</sup> Even if a project started, there is retrogression, relapse, backsliding. What is this indifference due to? Various reasons have been given: wrong programs, poor designing and implementation; lack of appropriate technology and institutions; inadequate resources (e.g., infrastructure construction) allocated for the program; the power of vested interests opposed to the program; ignorance, superstition, lack of skills of the peasants, laziness, lack of energy (due to malnutrition and sickness), lack of motivation, etc. More specific pinpointing of the reasons for indifference and disinterest is needed for policy decisions.

We know more about projects to increase incomes of peasants, higher yields per hectare, or multiple-cropping, diversification with secondary crops and inter-cropping, by home industries, home-gardening, by side-occupations such as poultry, piggery, fishing, and off-farm employment. The major constraints to raising incomes are said to be lack of technologies, lack of systems of diffusing the known technologies, lack of skills and training, lack of capital (credit), shortage of water resources, absence of appropriate systems of purchasing inputs and selling outputs (prices, markets, infrastructures, etc.)

Agricultural economists discuss ways of overcoming these deficiencies and constraints under topics such as systems of experimental stations, extension agency, multi-purpose farmers associations and cooperatives for credit, marketing and water management. Talks with IRRI economists, Barker (4), Hayami (5), Herdt (6), reveal a great deal of dissatisfaction with the functioning of these institutions in Southeast Asia. The IRRI economists, concerned with the low yields of HYV's in the field (as compared with yields in their experimental fields), feel that a major innovation such as the HYV's (with the

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<sup>16</sup> See *Rural Reconstruction and Development, A Manual for Field Workers*, International Institute of Rural Reconstruction, Silang, Cavite, Philippines, edited by Harry Bayard Price, 1967.



standard package of conventional inputs, to be designated as the (YV standard package) must be modified in almost infinite ways to farm conditions in the localities if high yields are to be obtained. To achieve this, there must be closely coordinated action between the experiment stations in the localities, the extension agent, the individual farmers in their associations, and cooperatives.

There is a need to learn more about why these institutions fail so often in Southeast Asia. Is it that conditions are so different from those in Western countries that drastic modification is needed? On the other hand, the means of communication, transportation, level of education and skills, and per capita incomes appear so poor or low in rural Southeast Asia when compared with the West in the early 1900's that new institutions may have to be devised. But how does one go about systematically researching for new institutions or adapting existing and traditional institutions? Comparative studies and observations of the latter in different areas of various countries of Southeast Asia may help. But after this, what else?

Japanese experience around the turn of the century suggests that Western models must be considerably modified to take into account some of the factors mentioned above: the use of more location-specific experiment stations, of veteran or leading farmers as extension agents, the employment of youths from villages in experiment stations for agricultural education, etc.<sup>17</sup>

Under Asian conditions of small farming units, low levels of education and per capita incomes, poor means of transport and communications, the discovery of new technology, the delivery of information, skills, credit, inputs, etc., are difficult, slow and expensive if these are not carried out through appropriate institutional arrangements. The use of indigenous methods via landlords, moneylenders and traders may be efficient but oppressive and not conducive to the ultimate development of self-reliance and independence of the vast majority of peasants. And without this, these countries can never grow into viable democracies. But how do we go about researching and exploring for institutions appropriate for technologies under existing Asian conditions?

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<sup>17</sup>Takekazu Ogura, ed., *Agricultural Development in Modern Japan*, Chapters 12, 13, 15, 16, 17, Tokyo, 1966. Also Y. Hayami and M. Akiro, "Organization and Productivity of Agricultural Research System in Japan," University of Minnesota, 1973.



Existing institutions appear to have failed to distribute irrigated water in appropriate ways. Is this due to the power structure in the villages? Existing methods of allocating credit have left the small farmer with insufficient capital to take advantage of new technologies. Is supervised credit the answer to this problem? If so, how does one get small farmers to repay loans? Why do small farmers fail to repay? Is it that their incomes are so low that they cannot repay or is it that their values are so traditional that loans are regarded as subsidies not requiring repayments? Sacay (3) points out that we know very little of the propensity and ability of small peasants to save, or the conditions under which they can or will save. It is not enough to know saving propensities, as in Western research; we need to know whether different types of compulsory savings schemes (e.g., insurance premium payments) can get small farmers to save without this knowledge, it is difficult to set-up independent credit cooperatives whose assets are to be built-up through savings by the farmer-members and which are regarded by the farmers as their own property.

Will the farmer be willing to raise more crops other than rice during dry seasons and to grow chicken, pigs, goats, etc., beyond his own consumption during his spare time if he is assured of a reasonable market for these products? Sacay (3) believes that this is a critical issue to be studied. As long as a reasonable market can be assured, the peasant will hustle to produce additional crops, getting inputs one way or another (through credit from relatives), save a portion of his income for the next year, be willing to learn how to raise these crops, etc. It is the uncertainty of market conditions controlled in part by the private traders that makes the peasant unwilling to take risks. If so, will a system of marketing crops in the villages linked with consumer coops in the town and cities be the answer, as Sacay seems to think? This hypothesis is worth investigating. It is not price per se that is involved; if 4 or 5 layers of middlemen blow up farm level prices 4 or 5 times, even low consumer prices with a good marketing system can bring adequate profits. On the other hand, it is asserted that private market traders are extremely efficient in processing and bringing the farmer's product to the consumer. But efficiency may not be the main issue here. If private traders have the power to take advantage of supply and demand conditions, the short-term fluctuations of the market (e.g., seasonal) may be penalizing the farmer unduly as against the traders and the consumers, with detriment to the long-term productive capabilities of the peasants. Sacay (3) believes this to be particularly



ment to the smaller farmers who are slower in taking advantage of new technologies and new crops than the bigger farmers with their superior training and skills, greater capital resources, better information, better farms, wider connections with officials, etc. It is often the case that by the time the smaller farmer gets into the act, the market is over-supplied and prices are dropping. If so, studies of marketing of non-rice crops and products are badly needed. This may be the key variable in the package, as far as small farmers are concerned. For the big farmers, technology may be the key variable; for the poorest farmer it may be the availability of credit and know-how. Perhaps the interlocking process of change in the package at a given village may be different for different groups of farmers, and for different villages in the various regions of the rural areas. Can we expect it to be the same for villages predominantly subsistent and for those partially subsistent? For villages primarily producing coconuts, or sugar, or vegetables, or tobacco, or rice?

Perhaps for the poorer villages, or poorer farmers in richer villages, the problem is primarily inadequate health and malnutrition. Infectious diseases and inadequate food may be the factors behind the apparent laziness, lethargy, and indifference. But even if they are not, health, like income, is a desirable end in itself. A higher income farmer may be subject to the same intestinal diseases as the poorer farmers if the village water supply is impure. But with the cost of medical services so high, how can an adequate supply of health services be paid for in the villages? Flavier (2) points out that it is not tuberculosis that kills tubercular peasants but the cost of medical attention by doctors. Can villagers pay even for paramedic services or some kind of services of "barefoot" doctors when they repeatedly become ill? Preventive health services are needed in the long run. What do we have technologies cheap enough to detect at the village level impure water, unsanitary toilets, polluted springs, etc.? If not, how do we go about discovering such technologies?

The frequent chronic illness of villagers may also be caused by malnutrition leaving them easily susceptible to diseases. To what extent is malnutrition due to low incomes or to food availabilities, or to ignorance and tradition? Flavier (2) holds that the causes of village malnutrition are not sufficiently known for policy formulation even in the Philippines where nutrition research is most extensive in Southeast Asia. Some types of adult malnutrition may be due to low incomes, e.g. calorie and protein deficiencies. Others may be due to food availability, especially if villagers in mountain areas



are far away from the sea, or, if they live along the sea, far a from soil for vegetable growing. Moreover, the causes of manutri may differ for age groups, i.e., adult malnutrition may be due ma to poverty and infant malnutrition to ignorance and tradition. W nutritionists emphasize education as a cure for malnutrition, t may be thinking more of infant nutrition. The consumption infants is so little that even villages near the sea can grow vegeta in empty cans, and working mothers can afford to buy the neces nutrients, if they know the importance of various foods for growth and future of the infant. But even with well educ mothers, do they (or we) know the consequences of poor nutritio whether for infants, children, adults? To what extent is p nutrition interacting with infectious diseases in rural Southeast A To what extent is poor nutrition in infancy the cause of p performance later in schools, then still later in farms and facto and to what extent is poor performance attributable to histor ethnic, religious, social, or genetic forces? Village nutrition reser methods may have to be drastically changed, if we are to b making progress on these and other questions,<sup>18</sup>

What role can education and training play in the development villages? Most of the young adults have had the benefit of 4 year elementary education, at least in the Philippines and Malaysia. H effective has this education been in raising levels of living in villages? If ineffective, what has been the trouble? Irrelev curriculum, poor methods, malnutrition of students, inadequ teaching, wrong goals and cumbersome administration from center? For those who are illiterate or near illiterate (and th comprise the bulk of adults in the labor force even in Philippines), what should be done? If they want to be educat how and what should they be taught? Should the older adults taught literacy skills first and then about the science of farmi health, nutrition, etc.? Or should instructions be directed to latter first and then literacy later? Or both simultaneously? W should be the role of cultural education and other non-form education in a rural development program?

The role of land reform has been studied mainly in its relation agricultural productivity. And the conclusion has been that ten

<sup>18</sup> For example, if malnutrition of the pre-school child is only one of factors responsible for poor school and work performance, shouldn't nutrit studies be made in a broader frame, taking into account major aspects of ch care in the homes and home management?



productivity is as high as, if not higher than, owner-farmer productivity. But do these studies allow for differences in soil fertility, location, availability to tenants of landlord's credit, equipment, influences and connections, controls, advice, etc.? Shouldn't land reform be also studied in relation to institution building, self-reliance, independence, and in general, the modernization of village life? There appears to be some evidence that in many instances the undue influence of landlords, moneylenders, and traders in rural governments, associations, and cooperatives have prevented the development of these institutions. In the long run these institutions are even more important than dubious cross-section productivity differentials of tenants and owners before land reform, as the comparison of pre- and post-war experiences of Japan and also of Taiwan demonstrates.

With respect to village self-government and independence, what role should the central government play? One school of thought holds that too many controls exercised by the central government will ultimately curb the growth of independent, self-reliant institutions. Another view is that in the beginning the role of government should be a strong one, if only to offset, and hold down the influence of more powerful members of the village community. Granting the latter view, do we know how the influence of the central government can be lessened so that eventually it will act only as a guide and advisor? Is this to be accomplished by forcing peasants to save so that eventually the finances of the institutions will be in the hands of the members, as Sacay (3) has hoped?

The dependence of the villages on the central government is reinforced by the methods of delivering central government services (health, education, training, extension, banking, etc.). There is little coordination in the delivery with each central government department determining when and how and what villages are to be serviced. (The Philippines is trying to integrate about a half dozen extension services attached to various Departments.) This makes for inefficiencies, inconveniences, and ineffectiveness, a mockery of the concept of packaged delivery of inputs for the various programs. Often it is detrimental to IRD. This is a serious problem all over Southeast Asia: how to coordinate and integrate central government services to achieve integrated rural development. A coordination council can be formed but proves usually to be ineffective, as each department vies to be the coordinator. And a development authority



has its difficulties.<sup>19</sup> Are central government departments servicing rural areas unsuited to Asian rural conditions? How can central government be re-organized to be more serviceable to villages? Or is the solution to strengthen village institutions so they will manage the coordination as Sacay points out?<sup>20</sup>

One major drawback is the absence of evaluation studies. Where studies exist are of uneven quality. There are now attempts to work out more elaborate and systematic benchmark studies without which evaluation studies are difficult. One obstacle faced in evaluation efforts is the lack of consensus about the goals of IRD, especially with respect to the long-run objectives. Also, since IRD is intended to improve living standards in the rural areas in a sustained fashion for the long run, a final and definitive evaluation can only be conducted a decade or so after the termination of the program. This is too late to be helpful for policy purposes. Some attention therefore, should be made in the evaluation to include questions which will give some indication of the probable permanency of changes in the villages.

#### Research Suggestions: Need for a New Research Approach

It is easier to talk about gaps in our knowledge than to suggest ways of researching to fill them. Of course some of the issues raised such as peasant savings and marketing, can be investigated by conventional procedures. But for the more important issues such as the study of the process of changes for determining program and project sequence, the attempt to understand the causes of the conditions underlying indifference, of retrogression and reversal and most important, the discovery of new institutions and their testing, the conventional research procedures and techniques do not suffice.

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<sup>19</sup> See A. Gaitskell in *Agriculture and Economic Development*, JERC, 1967, Tokyo, pp. 275-309.

<sup>20</sup> Dr. Orlando Sacay, *Samahang Nayon, A New Concept in Cooperative Development*, Manila, 1974; this is the blueprint of the Philippines' rural development program, now being applied nation-wide. In a conference in Taipei, December 1973, on Multiple-Cropping, one of the authors present jokingly remarked that Taiwan's rural development succeeded because there was the Ministry of Agriculture but instead there was the Joint Commission on Rural Reconstruction which coordinated the delivery of Government services. But it was taken seriously by the participants.



It is only recently that social scientists have become acutely aware of the need for institutional change and their importance in facilitating and modifying technological change. There has been groping for ways of discovering and testing new institutions. One manifestation of this may be the various rural experiments such as Puebla, Comilla, the rural reconstruction institutes (of James Yen), the social laboratories attached to universities, and others. What we may need are institutions comparable to the international and national agricultural research institute and the national and local agricultural experiment stations bringing together many disciplines and facilities for the discovery, experimentation, testing and improving HYV's. We may need to experiment with some form of organization which will raise the efficiency of and speed up the discovery of new institutions and which will increase their effectiveness and also facilitate research on some of the unconventional problems noted previously.

The most interesting model for these purposes is that of the International Institute of Rural Reconstruction (IIRR) at Silang, Cavite, Philippines (and the PRRM). It has the longest history of all the models of IRD and, though judged to have been unsuccessful in its major effort, it has provided valuable insights and discoveries for the formulation of rural development projects in recent years.<sup>21</sup> In the Rural Reconstruction model, trained, multipurpose workers live in selected villages assisting peasants with problems of livelihood, education and training, health and family planning, and institution building, backstopped by a staff of specialized technicians. The objective is to try to help the villagers solve their more serious problems, but in the process, new ways, institutions, and organizations for delivering information and know-how to increase incomes, improve literacy, health, and family planning, are tried. The field workers are trained to study carefully every aspect of village life and the backstopping by the technical staff is well coordinated.

An institute like this with a field staff dedicated to improve village life can be the source of a wealth of vital information (impossible to collect by interview surveys). The information is obtained within the

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<sup>21</sup> Sacay during his years as vice-president of IIRR, appears to have worked out his ideas on village associations, credit unions, etc., which are discussed in his recent book, *Samahang Nasyon, A New Concept in Cooperative Development*, *op. cit.* See also *Rural Reconstruction and Development*, *op. cit.*, and Juan Flavies, *Doctor to the Barrios*, 1970, Manila.



context of other forces and conditions so that the interrelations the process of change can be learned. The staff of technicians and professionals in consultation with the field workers and the villagers then attempt to devise ways of solving the problems, even to the extent of devising simpler technologies as in the case of public health problems.<sup>22</sup> But the Institute does not emphasize research, except what is called operational research.

In the search for new technologies experiment stations and laboratories are useful, but in the search for new knowledge about peasant behavior and new institutions, experimental village families and laboratory villages cannot be used since experiments in human and social behavior are of limited value. It has been found that in nutrition surveys, families whose food intake is being measured begin to change their consumption behavior. To be useful for social science research, rural development organizations must be dedicated to improve village life. Thus, it must have two sets of workers — one of action-oriented field workers in the villages who get to know intimately life in the villages as they go about helping villagers, and another set of more research-oriented and technically trained field workers whose job it is to gain more knowledge about village problems and search for solutions. The problems tackled should go beyond operational ones into some of the broader issues noted above. The two groups will have to work closely together; and there may emerge a new type of research scholar with a great deal of field and implementing experience.

To learn more about rural development organizations most suitable for research, a study may be conducted of villages where field workers have been stationed by the IIRR and the Philippine Rural Reconstruction Movement in Cavite and in Nueva Ecija (about 100 villages). Perhaps the villages can be classified into 3 or 4 groups (in consultation with the professional staff), those which have progressed very well, those which have progressed moderately, those making very little progress and those retrogressing under the rural reconstruction program. These villages can then be intensively studied on the basis of the records of the field workers, and in consultations with them. Hypotheses with respect to the reasons for

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<sup>22</sup> Dr. Juan Flavio and his staff of health specialists have been able to devise sanitary toilets which the villagers can build for themselves and now have come up with inexpensive instruments to measure the degree of impurity of water used by villagers.



the differential progress can then be set up, together with descriptions of the processes involved. These can then be checked with the field workers, and by interviews with villagers. What is implicitly being tested all along will be the strength and limitations of the rural reconstruction model as a source of knowledge on rural development and a method of discovering new institutions. The study may then reveal how best to organize rural development organization and research.

Sample surveys, especially nation-wide ones, cannot collect information and data necessary for the study of processes of village change and the linkages among these processes. The reason is that some of the important inputs are not quantifiable and those that can be measured have important qualitative dimensions. For example, in the case of rice production, the skill of the peasant in modifying the recommended package of inputs, the availability of water at the right time, the timing of fertilizer application, the extent of weeding, market information, etc., are difficult to approximate with any kind of proxy obtained from the usual surveys. Moreover, because of the strong interrelations among the inputs and their quantities and qualities, not to speak of non-quantifiable factors, the interactions can not be neglected. Regression analysis is, therefore, of limited value. To get at these for the study of processes and sequences, a micro-approach interweaving data at the village level, interviews with field workers and villagers, and observation must be resorted to. This approach may be useful for the investigation of problems such as peasant indifference in which non-quantifiable forces dominate (e.g., values and attitudes, ignorance, sub-clinical malnutrition, the degree of effectiveness of institutions, etc.).<sup>2,3</sup>

Macro research can be valuable for the study of development. The conventional types of surveys (agricultural censuses, household surveys of income expenditures, labor force, food consumption, all originating in the West) are not sufficient. A project to study the feasibility of new types of comprehensive surveys useful for rural development should include a survey of the social, economic, and natural characteristics of villages; the objectives are to generate benchmark data for macro-evaluation studies and to make possible a typology or classification of villages and regions of the country.

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<sup>2,3</sup> All this implies that the answers are not going to be precise, nothing like measured parameters. But it is better to go after rough results than try for precise ones which may not exist in real life.



Rural areas vary a great deal, in income, in ethnic origin, in natural resources, in patterns of economic activity (e.g., in the Philippines predominantly rice-producing, or sugar-producing, or coconut producing, or tobacco-producing, or fishing villages, etc.). Another type of survey to be explored is one that attempts to collect data on rural institutions and organizations, with the aim of measuring their effectiveness and efficiencies. A third type of survey to be studied is one that attempts to collect information on needs, values, attitudes, expectations, etc., of villagers.

Rural development projects have raised the importance of evaluation research. An evaluation of some of the better rural development evaluation studies, including a collection and analysis of questionnaires and procedures used will be helpful in improving future evaluation methods of rural development projects. We have the impression that evaluation research needs to be developed much more than in the past.

Finally, valuable insights may be obtained from studies in countries where rural development has been successful. These include Japan, Taiwan, and perhaps Communist China in East Asia. The case of Japan is particularly interesting. To what extent did new technologies not only in agriculture but also in health, transport, and mass media play their part, and to what extent education, health institutions, etc.? These studies should be historical, with participation by a group of disciplines, not excluding social anthropologists.<sup>24</sup>

### Concluding Remarks

Integrated rural development appears to be a new movement with only a few roots in the past. There is much that we do not know about it, and much needs to be known as soon as governmental clamors for more guidance. Standard and conventional surveys do not seem to be sufficient for studying IRD, partly because the problems to be investigated and the subject and object of research are quite different. If the challenges are met by social scientists, rural development research may open new vistas in social science research.

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<sup>24</sup> See studies by Chie Nakane for the light anthropological techniques described in comprehending rural social institutions: *Kinship and Economic Organization in Rural Japan*, London School of Economics, 1967; Garo A. Khasi, *A Comparative Study in Matrilineal Systems*, The Hague, 1967; and *Japanese Society*, Penguin Books, 1970.



methodology and in procedures. The research must be cooperative with participation by a broad group of specialists, and if it turns out that the various aspects of rural life are closely integrated, the social sciences themselves may have to become integrated in order to study rural development. A new type of social science scholar may emerge whose training may have to include much field work and whose goal is less the publication of learned volumes and more the building of new institutions. (For an illustration, see Sacay's book, *Samahang Bayan, op. cit.*)



## APPENDIX

### List of Persons Interviewed

- (1) Dr. Robert Evenson  
Agricultural Development Council, New York  
International Rice Research Institute, Los Baños, Philippines
- (2) Dr. Juan Flavier  
President  
International Institute of Rural Reconstruction  
Silang, Cavite, Philippines
- (3) Dr. Orlando Sacay  
Undersecretary of Cooperatives  
Department of Local Government and Community Development  
Quezon City, Philippines
- (4) Dr. Randolph Barker  
Chief, Agricultural Economics  
International Rice Research Institute, Los Baños, Philippines
- (5) Dr. Yuhiro Hayami  
Associate Professor of Agricultural Economics  
University of Tokyo  
Agricultural Economist  
International Rice Research Institute, Los Baños, Philippines
- (6) Dr. Robert Herdt  
Agricultural Economist  
International Rice Research Institute, Los Baños, Philippines
- (7) Dr. Sam-Chung Hsieh  
Agricultural Economist, Director of Projects  
Asian Development Bank, Philippines
- (8) Dr. J.K. Chang  
Economist, Director of Research  
Asian Development Bank, Philippines
- (9) Dr. R.W. Roskelly  
Head, Livelihood Group  
International Institute of Rural Reconstruction  
Silang, Cavite, Philippines



- (10) Dr. Sotero L. Lasap, Jr.  
Project Coordinator  
UPLBCA/SEARCA Social Laboratory, College, Laguna,  
Philippines
- (11) Dr. P.R. Sandoval  
Professor of Agricultural Economics  
University of the Philippines College of Agriculture,  
Los Baños, Philippines
- (12) Dr. N.R. Deomampo  
Chairman, Dept. of Agricultural Economics  
University of the Philippines College of Agriculture  
Los Baños, Philippines
- (13) Dr. Frank Lynch, S.J.  
Director, Institute of Philippine Culture  
Loyola Heights, Quezon City, Philippines
- (14) Dr. Joel Rocamora  
Institute of Asian Studies/Institute of Advanced Studies  
University of the Philippines  
Quezon City, Philippines
- (15) Dr. H.C. Chen  
Head Research  
International Institute of Rural Reconstruction  
Silang, Cavite, Philippines
- (16) Atty. F. Claudio  
Head, Self-Government Group  
International Institute of Rural Reconstruction  
Silang, Cavite, Philippines
- (17) Mr. D. Cabacungan  
Head, Education Group  
International Institute of Rural Reconstruction  
Silang, Cavite, Philippines
- (18) Dr. J.R. Martinez  
Training Director  
Philippine Rural Reconstruction Movement  
Gapan, Nueva Ecija, Philippines