

Sixteenth Congress of the Republic)
Of the Philippines)
First Regular Session)



Senate
Office of the Secretary

13 JUL 18 P5 57

SENATE

S. B. No. 954

RECEIVED BY: *ji*

Introduced by Senator Ramon Bong Revilla, Jr.

EXPLANATORY NOTE

Agriculture has been the traditional backbone of the Philippine economy. It is a principal source of income and employment, employing almost half of the total labor force. It is thus considered a major industry in the Philippines.

However, it has been observed that small farm-holders and tenant farmers have depended on the traditional subsistence level of farming systems. In spite of the extension efforts made by government agencies and institutions and non-government organizations, these farmers have not been able to adopt the new agriculture technologies that have otherwise made the large new agribusiness farms in the country highly productive and profitable.

Low investment in research and development (R&D), inadequate generation and ineffective transfer of agricultural technologies are the primary reasons why the majority of small and marginalized farmers have remained technologically outdated and economically powerless.

The Philippines cannot afford to allow the present state of affairs to continue. Otherwise, with increasing population, the country may not be able to produce or import the food to meet the needs of its people.

In order for the Philippines to become a progressive industrialized nation, it should have a strong and highly productive agricultural sector. Its strength and productivity, however, lie on the empowerment of the majority of its farmers and the promotion of the development of cutting-edge agricultural technologies to enable our country to become highly competitive in the international market.

This bill is in response to the strongly felt need to integrate R&D and technology generation and transfer into a single coherent and harmonious national system dedicated to the socio-economic well-being of the Filipino farmers and development of the nation. It aims to transform traditional peasant agriculture to modern highly productive agriculture through generation and transfer of more productive and useful technologies of farming and rural living.

A sustained expansion of the national economy requires sustained growth in the agricultural sector. We must transform our farmers into a resource of renewed national vigor and creativity in our drive for global competitiveness.

In view of the foregoing, approval of this bill is earnestly requested.


RAMON BONG REVILLA, JR.

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AN ACT
TO ESTABLISH AN INTEGRATED SYSTEM FOR AGRICULTURE
TECHNOLOGY GENERATION AND TRANSFER AND APPROPRIATING
FUNDS THEREFOR

Be it enacted by the Senate and House of Representatives of the Philippines in Congress assembled:

CHAPTER 1. TITLE AND POLICIES

SECTION 1. Title- This Act shall be known as the "Agriculture Technology Generation and Transfer Act."

SECTION 2. Declaration of Policy. –

- a) The State shall protect and promote the socio-economic welfare and well-being of Filipino farmers, particularly those in the countryside Towards this end, it is the purpose of this Act to establish an Integrated System of Agriculture Technology Generation and Transfer that will most efficiently and effectively provide the agricultural technology services as a means of empowerment of farmers and enable them to help sustain a self-sufficient and self-reliant food and agriculture production for its people and accelerate agro-industrial development of the country.
- b) The State also commits itself to the protection of the environment and the promotion of sustainable agriculture.

SECTION 3. Scope. This Act shall apply to and govern all existing agricultural research and extension activities of the National Government, the local government units, farmer's and non-government organizations and the state universities and colleges in the country.

SECTION 4. Definition of Terms - The following terms shall mean as defined herein:

- a) Agriculture- refers to the art, science and business of cultivating the soil, planting of crops, growing of fruit trees, management of forests, raising or catching or both of livestock poultry or fish; including the harvesting and post-harvest handling of such products, and other activities and practices performed by persons whether natural or juridical in conjunction with such operations.

- b) Research and Development (R&D)- pertains to all organized activities designed to search for new knowledge or modify existing ones, develop new methods and techniques of operation, tools, equipment or types of organisms through the application of the scientific method.
- c) Technology Generation- R&D activities that are directed principally towards the development of such methods, techniques, computer software and hardware, tools, equipment, or types of organisms that may be used or applied for the benefit of man The product of such activities may be referred to as technologies.
- d) Technology Transfer- pertains to all organized activities designed to enable individuals or groups to effectively adapt a particular technology.
- e) Farmer-any person who engages in any agricultural activity.
- f) Sustainable Agriculture- any principle, method and/or practice that aim to make agriculture economically viable, ecologically sound, socially just, culturally appropriate, and grounded on holistic science.

CHAPTER II. THE INTEGRATED SYSTEM FOR AGRICULTURE TECHNOLOGY GENERATION AND TRANSFER

SECTION 5. Purpose - The purpose of the Integrated System of Agriculture Technology Generation and Transfer is to most effectively and efficiently respond to and provide for the technology needs of farmers and enable them to attain higher productivity and market competitiveness in the context of sustainable agricultural principles and practices.

SECTION 6. The Integrated System of Agriculture Technology Generation and Transfer (ISATGaT) - All government agencies and institutions, including local government units and farmers and non-government organizations that are engaged in R&D, training and extension activities in agriculture shall be organized and formed into an Integrated System of Agriculture Technology Generation and Transfer (ISATGaT) It shall be organized into hierarchical and interlocking councils at the national, regional and provincial levels The national and regional councils shall be concerned with both the technology generation and transfer activities while the provincial councils shall be concerned with technology transfer activities.

SECTION 7. Components of the System.-

- a) Department of Agriculture
- b) Institutes and Centers for Agricultural Research Development and Training
- c) Local Government Units
- d) State Universities and Colleges
- e) Farmers' and Non-Government Organizations

CHAPTER III. ROLES AND FUNCTIONS OF COMPONENT UNITS IN EACH LEVEL OF THE SYSTEM

SECTION 8. The Department of Agriculture. (DA) shall:

- a) Provide the office of the Chairman and the Secretarial of the National Integrated System for Agriculture Technology Generation and Transfer (NISATGaT) Council

- b) Organize and operate a Bureau of Agriculture technology Generation and Transfer (BATGaT) out of its existing research centers and outreach stations and training institutes for purposes of addressing agriculture technology issues or for national concern, and
- c) Coordinate the activities of the NISATGaT Council with that of the other units within its department and with other agencies and instrumentalities of the Government in order that such activities shall be consistent with and in pursuit of the National programs and objectives of the country.

SECTION 9. The Autonomous National Institutes and Centers for Agricultural Research, Development and Training shall –

- a) Undertake such technology generation and transfer activities as may be recommended by the NISATGaT Council, and
- b) Maintain and improve high level of technical manpower and appropriate facilities to be able to effectively undertake whatever technology generation and transfer activities may be deemed necessary.

SECTION 10. The Local Government Units (LGUs) shall:-

- a) Designate a Provincial Agriculture Officer (PAO)- in each province who will represent the respective provinces in the Regional Integrated System for Agriculture Technology Generation and Transfer (RISATGaT) Council and coordinate all activities pertaining to agricultural technology services to farmers in his/her provinces; and
- b) In collaboration with a duly recognized provincial college of agriculture, shall organize a Provincial Agriculture Technology Transfer (PATT) Council whose members will include the head of the agricultural institution, the PAO, Municipal Agricultural Officers, representatives of recognized local farmers' and non-government organizations.

SECTION 11. The State Universities and Colleges (SUCs) shall –

- a) Designate an Agriculture Technology Generation and Transfer (ATGaT) Coordinator who will represent the institution in the Regional Integrated System for Technology Generation and Transfer (RISATGaT) Council in the case of duly accredited regional SUCs;
- b) Designate an Agriculture Technology Transfer (ATT) Coordinator for the institution and who will represent the institution in the Provincial Integrated System for Agriculture Technology Transfer (PISATT) Council in the case of duly accredited provincial agricultural colleges or provincial technical institutes of agriculture;
- c) Undertake research, technology generation and/or technology transfer on such areas as may be recommended by the NISATGaT, RISATGaT or PISATT Council in the case of duly accredited national, regional or provincial agricultural institution(s), respectively;
- d) Provide the office of the Chairman and Secretariat of the RISATGaT Council in the case of the regional state agricultural institution or of the PISATT Council in the case of the provincial agricultural institution as may be designated by the NISATGaT Council, and

- e) Provide facilities and staff for and conduct training of agricultural technologies, technicians and farmers in the utilization of the various agricultural technologies.

SECTION 12. Farmers and Non-Government Organizations (NGOs) shall:-

- a) Volunteer facilities or certain portions of their farms for tests and/or demonstration of certain agricultural technologies that are of potential benefit to them;
- b) Actively participate in the problem opportunity identification, planning and implementation of research and development of promising technologies; and
- c) Share in the cost of research and development of technologies that are potentially beneficial to them.

SECTION 13. Creation of the National integrated System for Agriculture Technology Generation and Transfer (NISATGaT) Council.- To carry out the programs for generation and transfer of agriculture technologies of the country, the National Integrated System for Agriculture Technology Generation and Transfer (NISATGaT) Council is hereby created and attached to the Department of Agriculture for administrative purposes only, with the following composition and functions:

- a) **Composition.** The following shall serve as members of the NiSATGaT with its Chairman to be elected to serve for a period of three (3) years.
 - 1) One outstanding scientist from each of the fields of Crop Science, Animal Science, Agricultural Engineering, Fisheries, Forestry and Veterinary Medicine who shall be nominated by heads of faculties, scientific or professional groups for a term of three (3) years, and from among themselves, a Co-chairperson shall be chosen;
 - 2) The Director of the Bureau of Agriculture Research, Technology Generation and Transfer (BARTGaT) who shall also serve as the Executive Director of the Secretariat of the Council;
 - 3) The Dean, College of Agriculture of the University Council of the Philippines at Los Bafios;
 - 4) The President of the Philippine Association of Agricultural Colleges and Universities;
 - 5) The Executive Director of the Philippine Council for Agriculture and Resources Research and Development (PCARRD);
 - 6) One representative of the National Farmers' Organizations and one representative of the National NGOs involved with agricultural technology transfer;
 - 7) Chairperson of each of the RISATGaT Councils;
 - 8) The Director, Bureau of Animal Industry; and
 - 9) The Director, Bureau of Plant Industry; and
 - 10) The Director, Bureau of Fisheries and Aquatic Resources

b) Functions- The NISATGaT Council shall have the following duties and functions:

- 1) Scan the environment of the Philippine agriculture and study new development and trends where problems and opportunities could arise and taken advantage of by developing new technologies;
- 2) Study new technologies in agriculture and related fields and determine whether these could be advantageously adapted by Filipino farmers,
- 3) Formulate policies that will encourage and promote the expeditious generation and transfer of technologies that are most beneficial to the Filipino people,
- 4) Prioritize national programs for research, technology generation and transfer that government should support;
- 5) Make representation with the Department of Budget and Management and see to the timely and sufficient allocation of finds for agriculture research, technology generation and transfer programs as recommended by NISATGaT, and
- 6) Formulate policies regarding technology, protection, commercialization and dissemination.

SECTION 14. Creation of the Regional Integrated System for Agriculture Technology Generation and Transfer Councils- To carry out the regional programs for generation and transfer of technologies appropriate for each of the regions, a Regional Agricultural Technology Generation and Transfer (RISATGaT) Council is hereby created in each of the geographical regions of the country and attached to a chartered regional state university or college as designated by the MSATGaT Council.

a) Composition. -The RISATGaT Council shall be composed of the following members whose Chairman shall be elected by its members for a term of three (3) years and assisted by a Secretariat,

- 1) The Heads of the accredited agricultural university(ies) and college(s) of the region,
- 2) The Directors/ Heads of Regional Integrated Agriculture Research Centers and of other duly recognized agricultural commodity research and training centers in the region,
- 3) The Manager/ head of the Regional Outreach Station;
- 4) The Provincial Agricultural Officers of each province of the region,
- 5) The President (s) or Chairperson (s) of duly recognized farmers and non-government organizations involved in the promotion of agriculture in the region; and
- 6) The Coordinator of Agriculture Technology Generation and Transfer of the institution to which the RPSATGaT is attached and who shall also serve as in charge of the Secretariat.

b) Functions - The RISATGaT Council shall have the following duties and functions

1. Periodically discuss problems and opportunities for developing agriculture in the province and plan and cause the implementation of research, technology generation and transfer programs that will most effectively address such issues;
2. Coordinate the research, technology generation and technology transfer activities in the region and see that they are consistent with the plans and programs approved by the RISATGaT;
3. Determine the priorities for research, technology generation and transfer that may be implemented in the region and accordingly recommend financial support by the Government or by any interested parties;
4. Periodically review on-going research and development projects and programs and see that they are squarely address their objectives; and
5. Plan and facilitate the transfer of new and appropriate agricultural technologies to farmers and other end-users in the region.

SECTION 15. Creation of Provincial Integrated System for Agriculture Technology Transfer Council- To effectively transfer agriculture technologies to farmers in the provinces and municipalities, the Provincial Agriculture Technology Transfer (PATT) Council shall be established in each of the provinces and attached to the provincial agricultural college designated by the RISATGaT Council.

a) Composition- The PATT Council shall be composed of the following members with the Chairman to be elected from among the members and serve for three (3) years:

- 1) The Head(s) of recognized provincial agricultural college (s) or institute(s);
- 2) The Provincial Agricultural Officer (PAO) who shall also serve as Coordinator of Technology Transfer and in-charge of the PATT Council Secretariat
- 3) The Municipal Agricultural Officer of each municipality; and
- 4) The chairperson(s) of duly recognized farmers and non-government organizations involved in agriculture in the province.

b) Functions- The PATT Council shall have the following duties and functions:

- 1) Periodically discuss problems and opportunities for developing agriculture in the province and plan and cause the implementation of appropriate technology for transfer to farmers and other local end-users;
- 2) Coordinate d l technology transfer activities in the region and see that they are consistent with its approved plans and programs;
- 3) Determine priority technology transfer activities that may be implemented in the province and accordingly recommend financial support by the local government or by any interested parties;

- 4) Periodically review on-going technology transfer activities in the province and see that they squarely address their objectives; and
- 5) Plan and facilitate the transfer of new and appropriate agriculture technologies to farmers and other end-users in the province.

SECTION 16. Budgetary Scheme shall be as follows:-

- a) The current appropriations or budgets for agriculture research, technology generation and transfer program of the state agencies, institutes and centers and local government units and SUCs shall be increased from the present level by annual increment of 0.2% of the GVA of the agriculture sector for the next ten (10) years as recommended by the NISATGaT Council and approved by the Department of Budget and Management and shall be included in the Annual General Appropriations Act.
- b) This Act hereby allocates an endowment lump sum amount of Fifty million pesos (P50,000,000.00) per annum for the next ten (10) years and shall be included in the General Appropriations Act starting 1995. This fund shall be called the Agriculture Technology Generation and Transfer Fund to support high priority technology generation and transfer programs of the NISATGaT Council the RISATGaT Councils and the PATT Councils. Provided, that such fund shall be invested in government bonds and securities and managed by the NISATGaT Council using only the interest earnings of the said kind.
- c) The operations of the Bureau of Agriculture Research, Technology Generation and Transfer shall be funded initially from the DA allocation for the operation of both its Bureaus of Agricultural Research (BAR) and Agricultural Training Institute (ATI) upon the effectivity of this Act, the BAR and ATI shall be replaced by the BARTGaT. Subsequently, the appropriation of the BARTGaT shall be incremented according to the provisions of subsection (a) hereof.

SECTION 17. Grants, Fiduciary and Revolving Funds:- The Fiduciary and Revolving Funds centralized under P.D. 711 are hereby authorized and reallocated to the government agencies, institutions, centers and SUCs participating in the ISATGaT to encourage them to demonstrate the economic benefits of the technologies that have been developed; furthermore endowment funds shall be authorized to be accumulated in the institutions out of the funds generated from earnings and from grants and other external sources to be used as incentives for research fellowships, incentives and awards for excellence in technology generation and transfer and the like. Such kinds shall be disbursed in accordance with the law and the guidelines set by the NISATGaT Council and the Commission on Audit.

CHAPTER IV. INCENTIVES, PRIVILEGES AND BENEFITS

SECTION 18. Incentives for Private Institutions- Private institutions and organizations may avail of the research, technology generation and transfer fund. Provided, That their programs are approved for funding by the NISATGaT Council. Furthermore, their expenditures for research and development activities shall be eligible for tax exemptions Provided, That the information that they derive therefrom are shared with the community of researches through scientific publications, seminars, symposia and the like.

SECTION 19. Incentives and Benefits for Technologists and Technicians and Farmers Participating in Technology Generation and Transfer

- a) Technologist and technicians involved in research, technology generation and transfer shall be paid salaries, at least, equal to the teaching staff of the SUCs of equivalent academic training and qualifications. They shall also be given corresponding incentives and benefits for any patent on products or processes that they have developed
- b) Farmers who participate in the planning and implementation of technology generation and transfer activities or make available certain areas of their farm lots or farm facilities for such activities shall be entitled to certain incentives and benefits as may be recommended by the supervising Council and approved by the Commission on Audit.

SECTION 20. Repealing Clause - All existing laws, rules and regulations or parts thereof inconsistent with the provisions of this Act are hereby repealed or modified accordingly

SECTION 21 Separability Clause- If any part, section or provision of this Act shall be held invalid or unconstitutional, no other part, section or provision hereof shall be affected thereby

SECTION 22. Effectivity- This Act shall take effect fifteen (15) days after its publication in two (2) newspapers of general circulation

Approved,