CONGRESS OF THE PHILIPPINES
NINETEENTH CONGRESS
Second Regular Session

SENATE

S. No. 2439

(In Substitution of S. Nos. 9, 1914, and 2041, taking into consideration H. No. 8443)

PREPARED AND SUBMITTED JOINTLY BY THE COMMITTEE ON ECONOMIC AFFAIRS (UPON RECOMMENDATION OF ITS SUB-COMMITTEE ON PENCAS LAW AND BLUE ECONOMY); COMMITTEES ON ENVIRONMENT, NATURAL RESOURCES AND CLIMATE CHANGE; AND FINANCE WITH SENATORS LEGARDA, REVILLA, JR., VILLANUEVA, AND HONTIVEROS AS AUTHORS THEREOF

AN ACT INSTITUTIONALIZING THE PHILIPPINE NATURAL ECOSYSTEM AND CAPITAL ACCOUNTING SYSTEM, MANDATING ITS USE IN POLICY AND DECISION-MAKING, DESIGNATING AGENCIES RESPONSIBLE IMPLEMENTATION, PROVIDING INSTITUTIONAL ARRANGEMENTS AMONG RESPONSIBLE AGENCIES. AND APPROPRIATING **FUNDS** THEREFOR

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

- 1 Section 1. Short Title. This Act shall be known as
- 2 the "Philippine Ecosystem and Natural Capital Accounting
- 3 System (PENCAS) Act".

- 1 SEC. 2. Declaration of Policy. It is hereby declared 2 the policy of the State to:
- 3 (a) Recognize natural ecosystems as an integral part
 4 of our patrimony and heritage;
- 5 (b) Protect and promote ecological balance and
 6 resilience, and advance the right of the people to live in
 7 harmony with nature;
- 8 (c) Adhere to internationally accepted System of 9 Environmental-Economic Accounting (SEEA) that 10 measures and monitors the dynamic interaction and 11 intersections of the environment, economy and society;

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- (d) Develop a comprehensive information system and accounting framework that will take into consideration the role of our natural capital, consisting of both environmental and natural resources including ecosystem services, and its impact on the economy;
- 17 (e) Compile and progressively integrate natural 18 capital accounts in macroeconomic indicators, 19 strengthening and building on Republic Act No. 10625, 20 otherwise known as the "Philippine Statistical Act of

- 1 2013", which mandates the compilation of national
- 2 accounts, including environmental accounts, statistics, and
- 3 indicators;
- 4 (f) Provide indicators that will facilitate the
- 5 integration of environmental and natural resource
- 6 concerns in planning and policymaking at the national and
- 7 subnational levels, in allocating budgets, and in
- 8 designating statistics that will be produced regularly for an
- 9 identified period of analysis;
- 10 (g) Establish and improve interagency coordination
- 11 for the purpose of linking natural capital information as
- 12 well as efficient data management among concerned
- 13 agencies and their partner institutions, and establish an
- office to guide such coordination; and
- 15 (h) Understand nature's pricelessness, its heritage
- 16 and intrinsic value, and its interdependencies in the
- 17 implementation of the foregoing policies to consider that
- 18 nature and ecosystems have inherent rights to exist, with
- 19 an end view of recognizing legal rights that serve to protect
- 20 endangered ecosystems and applying the precautionary

- 1 principle, especially when economic values cannot be 2 estimated.
- 3 SEC. 3. Definition of Terms. As used in this Act:
- 4 (a) Adjusted net savings refers to the sum of the net
 5 national savings and education expenditure, and deduct
 6 natural resources such as energy, minerals, forest, water,
 7 soil, inland wetlands, coastal and marine areas, and
 8 fisheries, depletion, and greenhouse gas emissions and
 9 pollution damage;
- 10 (b) *Ecosystem* refers to all living things in a given 11 area, as well as their interactions with each other, and 12 with their non-living environments (weather, earth, sun, 13 soil, climate, atmosphere, water, etc.);
- 14 (c) *Ecosystem accounting* refers to a coherent
 15 framework for integrating measures of ecosystems and
 16 flows of services from them with measures of economic and
 17 other human activity;
- 18 (d) *Ecosystem services* refer to the benefits supplied 19 by the functions of ecosystems and received by humanity 20 and all elements of living systems, which support life

- 1 systems on the planet. Ecosystem services consist of
- 2 provisioning services, regulating and maintenance
- 3 services, and cultural services;
- 4 (e) Environmental indicators are environment
- 5 statistics that have been selected for their ability to depict
- 6 important phenomena or dynamics. Environmental
- 7 indicators are used to synthesize and present complex
- 8 environment and other statistics in a simple, direct, clear
- 9 and relevant way;
- 10 (f) Natural capital refers to the stock of renewable
- and non-renewable resources, including plants, animals,
- 12 air, water, soils, ores, and minerals, that provide a flow of
- 13 benefits to people and living things. Natural capital
- 14 includes, but is not limited to, ecosystem services such as
- 15 air and water filtration, flood protection, carbon
- 16 sequestration, pollination of crops, and habitats for
- 17 wildlife;
- 18 (g) Natural Capital Accounting (NCA) refers to an
- 19 accounting framework that provides a systematic way of
- 20 measuring and reporting on stocks and flows of natural

- 1 capital. NCA covers accounting for individual
- 2 environmental assets or natural resources, both biotic and
- 3 abiotic such as water, ores, minerals, energy, timber, and
- 4 fish, as well as accounting for ecosystem assets,
- 5 biodiversity, and ecosystem services;
- 6 (h) System of Environmental-Economic Accounting
- 7 (SEEA) refers to a framework that integrates both
- 8 economic and environmental data to provide a more
- 9 comprehensive and multipurpose view of the
- 10 interrelationships among the economy, the environment
- and ecosystems, and the stocks and changes in stocks of
- 12 natural assets, as they bring benefits to humanity; and
- 13 (i) Valuation refers to determining the value or
- 14 worth, in both physical and economic terms, of natural
- 15 capital and the services it provides at national and
- 16 subnational levels.
- 17 Sec. 4. Philippine Ecosystem and Natural Capital
- 18 Accounting System. The Philippine Ecosystem and
- 19 Natural Capital Accounting System (PENCAS) is hereby
- 20 institutionalized within the government bureaucracy. The

- 1 PENCAS shall be based on internationally accepted
- 2 environmental-economic accounting frameworks. The
- 3 PENCAS framework shall include, among others, a list of
- 4 the officially designated statistics on the depletion,
- 5 degradation, and restoration of natural capital;
- 6 environmental protection expenditures; pollution and
- 7 quality of land, air and water; environmental damages;
- 8 and adjusted net savings.
- 9 SEC. 5. Objectives of the PENCAS. The PENCAS
- shall have the following major objectives:
- 11 (a) Support economic, environmental, and health
- 12 policy development and decision-making;
- 13 (b) Provide a system for the collection, compilation,
- 14 and development of physical and natural capital accounts
- 15 in the government as a tool for physical and development
- 16 planning and programming, policy analysis, and
- 17 decision-making;
- 18 (c) Serve as a comprehensive data framework in the
- 19 generation of natural capital statistics and accounts

- 1 towards their progressive integration in macroeconomic
- 2 indicators;
- 3 (d) Provide tools and measures that contribute to the
- 4 protection, conservation, and restoration of ecosystems;
- 5 and
- 6 (e) Provide valuation of ecosystem services such as
- 7 provisioning, regulating and maintenance, and cultural
- 8 services.
- 9 Sec. 6. Institutional Arrangement for the
- 10 Implementation of PENCAS. To ensure the effective
- 11 implementation of PENCAS, the following bodies shall be
- 12 tapped:
- 13 (a) The Philippine Statistics Authority (PSA) Board
- shall oversee the implementation of PENCAS.
- 15 (b) The PSA Board shall direct the relevant
- 16 interagency committees created under Section 10 of Republic
- 17 Act No. 10625 to assist the PSA in addressing agency and
- 18 sectoral concerns that may arise in the development of
- 19 natural capital accounts, particularly on the (1) techniques
- 20 and methodologies in generating environment and natural

- 1 resources statistics; (2) areas of duplication, discrepancies,
- 2 and gaps; and (3) workable schemes for the improvement of
- 3 data systems of accounts including production, dissemination
- 4 and archiving of data and information.
- 5 The Interagency Committee on Environment and
- 6 Natural Resources Statistics (IACENRS) shall provide
- 7 support in ensuring that data requirements for NCA are
- 8 being generated by all concerned agencies. It shall adopt,
- 9 implement, and update an NCA Roadmap that will (1) guide
- 10 short-term, medium-term, and long-term activities for
- 11 natural capital accounts development; and (2) prioritize areas
- 12 for budget support and monitoring and evaluation of NCA
- 13 implementation in the country.
- 14 (c) A Technical Working Group (TWG) on NCA shall
- 15 be established under the IACENRS. The TWG shall consist of
- 16 the PSA as lead accounts compiler, the Department of
- 17 Environment and Natural Resources (DENR) as main data
- 18 producer, the National Economic and Development Authority
- 19 (NEDA), and the Department of Agriculture (DA). The PSA
- 20 shall serve as chair and shall provide secretariat support to

- the TWG. The TWG shall perform the following roles and
 responsibilities:
- Provide immediate support to achieve the priority (1) activities across all components of the NCA Roadmap such as ensuring the inclusion of proposals, through program convergence budgeting to avoid duplication of funding for similar program, activity, or project for PENCAS, by the implementing agencies for budgetary or financial and technical support and collaborating with development partners for project preparation and implementation;
 - (2) Serve as a forum for discussion and resolution of issues and concerns in the compilation, processing, and dissemination of natural capital and ecosystem statistics and accounts and other related indicators in terms of accuracy, completeness, timeliness, and relevance;

(3) Review and recommend enhancements on the concepts, techniques, and methodologies used in the collection, processing, and reporting of natural capital and ecosystem statistics and accounts to ensure conformity with the prescribed statistical standards and classification system:

(4) Identify and recommend statistical measures,
 strategies, and policies for the improvement of natural capital
 and ecosystem statistics and accounts to IACENRS;

- (5) Recommend improvements in the methodology of compiling natural capital and ecosystem statistics and accounts, and formulate measures to ensure that the data requirements of the same are being generated and addressed by all concerned agencies;
- (6) Prioritize outputs that will address the more urgent statistical requirements in the Philippine Statistical Development Program, including those required to monitor and measure the accomplishment of relevant chapters of the Philippine Development Plan and its Results Matrices, and the Philippines' obligations in multilateral environmental agreements; and
- 16 (7) Update the PSA Board and the IACENRS on 17 developments in natural capital and ecosystem statistics and 18 accounts.

- 1 Sec. 7. Specific Functions of National Government on
- 2 PENCAS. The following agencies shall have the following
- 3 specific roles and responsibilities in the implementation of
- 4 this Act:
- 5 (a) The PSA shall have the overall responsibility for
- 6 the institutionalization and progressive implementation of
- 7 PENCAS following the SEEA framework. It shall develop
- 8 and maintain the compilation of natural capital accounts
- 9 as well as the environmental and ecosystem accounts at
- 10 the national and, as necessary, at the sub-national levels.
- 11 It shall coordinate with and provide technical support to
- 12 interagency committees, task forces, technical working
- 13 groups, national government agencies, and local
- 14 government units (LGUs) in the generation, compilation,
- 15 and use of environmental accounts, statistics, and
- 16 indicators. In coordination with concerned agencies, it
- 17 shall designate the required environment and economic
- 18 statistics in agencies and bureaus responsible for
- 19 generating data.

- 1 The PSA shall create a service to be referred to as
- 2 Environment, Natural Resources and Ecosystem Account
- 3 Service (ENREAS), under the Sectoral Statistics Office,
- 4 necessary for the implementation of this Act, subject to the
- 5 evaluation and approval of the Department of Budget and
- 6 Management (DBM), and in compliance with the civil
- 7 service laws, rules, regulations, and guidelines.
- 8 (b) The DENR shall be responsible for providing
- 9 NCA data to PSA. The DENR shall ensure the
- 10 participation of its concerned offices, bureaus, and
- 11 attached agencies. It shall spearhead the establishment of
- 12 site-specific ecosystem accounts.
- In the Environmental Impact Assessment (EIA)
- 14 System, the DENR shall ensure that the natural
- 15 environment, ecosystem services, and natural capital are
- 16 framed as opportunities, benefits, or assets that may be
- 17 put at risk. The DENR shall ensure the wide availability of
- 18 frameworks, tools, methods, and skills including, but not
- 19 limited to, the Extractive Industries Transparency

- 1 Initiative (EITI), and use of available temporal and spatial
- 2 NCA data in the conduct of EIA.

- To perform the foregoing functions, the DENR shall
 be strengthened through the creation of new plantilla
 positions, subject to existing laws, rules and regulations.
 - (c) The NEDA, including its regional offices, shall ensure that NCA is included in the national and regional development priorities based on the usefulness of the accounts in policy analysis, development planning, and investment programming. It shall provide strategic guidance on improving uptake on policy use and application, enhancing institutional capacity, and raising awareness and transparency of NCA work.
 - (d) The DA shall assist the PSA in the generation and provision of the NCA information relative to agricultural areas, and fisheries and aquatic resources, and closely coordinate on associated ecosystem NCA with the DENR. The Bureau of Fisheries and Aquatic Resources (BFAR), in line with its mandate, shall provide support in the creation of data and information on fisheries valuation

- 1 and accounting. The National Fisheries Research and
- 2 Development Institute (NFRDI) shall continue to conduct
- 3 research and development activities and studies to support
- 4 the assessment, including the profiling of the status of fish
- 5 stocks of the country. The Bureau of Soils and Water
- 6 Management (BSWM) shall ensure that NCA is considered
- 7 to ensure soil fertility and hydrological stocks and services.
- 8 Further, the DA, BFAR, BSWM, and NFRDI shall create
- 9 national capital units through additional plantilla
- 10 positions, subject to existing laws, rules and regulations,
- and approval of the DBM.
- 12 (e) The Department of the Interior and Local
- 13 Government (DILG) shall consolidate and submit NCA-
- 14 related data and statistics from local governments to PSA
- 15 and DENR. Further, the DILG shall ensure that LGUs
- 16 utilize and mainstream NCA into their local policies, plans,
- 17 and programs.
- 18 (f) The Department of Education (DepEd),
- 19 Commission on Higher Education (CHED), Technical
- 20 Education and Skills Development Authority (TESDA),

- 1 and state universities and colleges (SUCs) shall craft
- 2 modules in all levels and modalities of basic, technical,
- 3 vocational, and higher education to capacitate the citizenry
- 4 to avail of participatory mechanisms in relation to
- 5 PENCAS.
- 6 (g) The Professional Regulation Commission (PRC)
- 7 shall incorporate NCA concepts in the continuing
- 8 professional education programs and develop the
- 9 understanding of the impact of different professions on the
- 10 environment.
- 11 (h) The Department of Finance (DOF) shall
- 12 integrate NCA considerations into fiscal policies and
- 13 regulations, and develop incentive mechanisms that will
- 14 drive NCA investments.
- 15 (i) The Department of Energy (DOE) and
- 16 Department of Human Settlements and Urban
- 17 Development (DHSUD) shall integrate NCA considerations
- 18 into the performance of their mandate, and ensure that its
- 19 planning and decision-making consider natural capital.

- 1 Sec. 8. Participation of Specific Bureaus Within the
- 2 Agencies. The following offices shall contribute to the
- 3 collection, generation, analysis and presentation of
- 4 statistics and data requirements of the PENCAS:
- 5 (a) All bureaus of the DENR, and the National
- 6 Mapping and Resource Information Authority (NAMRIA);
- 7 (b) National Water Regulatory Board (NWRB);
- 8 (c) The bureaus of the DA, especially the BFAR, the
- 9 BSWM, Philippine Fisheries Development Authority
- 10 (PFDA), Philippine Rice Research Institute (PRRI),
- 11 National Irrigation Administration (NIA), and the
- 12 Philippine Coconut Authority (PCA);
- 13 (d) National Renewable Energy Board (NREB);
- 14 (e) Research and development institutes, and
- 15 science and technology services, especially the Philippine
- 16 Atmospheric, Geophysical and Astronomical Services
- 17 Administration (PAGASA) and the Philippine Institute of
- 18 Volcanology and Seismology (PHIVOLCS) of the
- 19 Department of Science and Technology (DOST); and
- 20 (f) Other bureaus, as necessary.

SEC. 9. Involvement of Other Stakeholders. - The 1 2 TWG on NCA shall involve other relevant agencies, private 3 nongovernment organizations, including sector, and peoples and local communities, 4 indigenous the 5 implementation of PENCAS, particularly on the generation and provision of NCA data as well as the use of natural 6 7 capital and ecosystem accounts. 8 Subject to the implementing rules and regulations of 9 this Act and national security concerns, all stakeholders 10 shall regularly publish NCA information on their website 11 and/or such other medium deemed appropriate. SEC. 10. Applicability of Other Laws. - For purposes 12 of implementing the provisions of this Act, penalties 13 14 provided in Republic Act No. 9485 or the "Anti-Red Tape 15 Act of 2007", as amended by Republic Act No. 11032 or the 16 "Ease of Doing Business and Efficient Government Service Delivery Act of 2018", and Republic Act No. 10625 or the 17

"Philippine Statistical Act of 2013", shall apply.

SEC. 11. Participatory Mechanisms and Citizen
Remedies. – The concerned agencies shall institute
consultative mechanisms, and mass collaboration
measures to effectively popularize PENCAS and ensure
wide comprehensibility and usage of the accounts.

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Any citizen shall have the right to information on any account generated under this Act, to have the standing to compel the performance of any of the mandates under this Act, and to seek justification from any government agency that may have ignored or neglected PENCAS accounts and indicators in their policy or decision-making. Major PENCAS accounts, results on nature's wealth and the economic value of ecosystem services, and loss and damage associated with disasters or climate change, shall be released along with all releases of national economic data. such as Gross National Income (GNI), Gross Domestic Product (GDP), and other often-released measures of the state of the country's economic health and highlight the contribution of resources and ecosystems to the economy, incomes and employment.

- 1 SEC. 12. Rights of Nature. Nothing in this Act shall
- 2 be construed to mean that nature has no inherent and
- 3 intrinsic value separate and distinct from its economic
- 4 value.
- 5 The maintenance of nature's vital cycles, functions,
- 6 and processes ensures the sustainability and health of
- 7 natural ecosystems. This is in recognition of the fact that
- 8 there are limits to the ability of these natural ecosystems
- 9 to regenerate and that human development that alters or
- 10 affects them must be sustainable and must allow for their
- 11 renewal and restoration.
- 12 SEC. 13. Appropriations. The amount necessary to
- 13 cover the initial implementation of this Act shall be
- 14 charged against the current year's appropriations of the
- 15 departments or agencies concerned. Thereafter, the
- 16 amount necessary for its continued implementation shall
- 17 be included in the respective budgets of the departments
- 18 and agencies concerned in the annual General
- 19 Appropriations Act.

SEC. 14. Implementing Rules and Regulations. -1 2 Within one (1) year from the effectivity of this Act, the PSA 3 shall constitute an interagency working group, composed of the agencies and offices enumerated under Sections 6 and 4 5 7 of this Act, to issue the rules and regulations necessary 6 for the effective implementation of this Act. 7 The relevant agencies shall integrate internationally recognized best practices and methodologies as they 8 9 execute and implement this Act and its rules and regulations, ensuring the progressive integration of the 10 11 SEEA. 12 The implementing rules and regulations of this Act shall include the timeframe, manner and such other details 13 regarding the collection, renewal, and review of NCA data 14 15 by government agencies and other stakeholders. 16 SEC. 15. Separability Clause. – If any provision of this Act is declared unconstitutional or otherwise invalid, the 17 18 validity of the other provisions shall not be affected 19 thereby.

- 1 SEC. 16. Repealing Clause. All laws, decrees, orders,
- 2 rules and regulations, issuances, or parts thereof
- 3 inconsistent with the provisions of this Act are hereby
- 4 repealed or modified accordingly.
- 5 SEC. 17. Effectivity. This Act shall take effect fifteen
- 6 (15) days after its publication in the Official Gazette or in a
- 7 newspaper of general circulation.

Approved,