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ASM RESOLUTIONS

Bioscience Innovations: Transforming Enterprise Ecosystems for Wealth Creation

47th Annual Scientific Meeting
National Academy of Science and Technology Philippines

9-10 July 2025
Manila, Philippines

RESOLUTIONS

WHEREAS, science, technology, and innovation (ST&I) are enshrined in the 1987 Philippine Constitution as vital to national development and total human well-being; are aligned with the Sustainable Development Goals (SDGs), the Philippine Development Plan (PDP) 2023–2028, and the different Regional Development Plans; and are operationalized through the Department of Science and Technology's four-pillar strategic framework—Human Well-Being, Wealth Creation, Wealth Protection, and Sustainability—as well as the long-term vision of PAGTANAW 2050;

WHEREAS, the National Academy of Science and Technology adopted the theme "*Bioscience Innovations: Transforming Enterprise Ecosystems for Wealth Creation*" for its 47th Annual Scientific Meeting, to highlight the transformative role of bioscience in promoting social innovation, inclusive growth, and environmental sustainability;

WHEREAS, an enterprise ecosystem refers to a network of different organizations, businesses, and individuals that collaborate and interact to create value and wealth, allowing all participants to benefit from shared knowledge, resources, and opportunities;

WHEREAS, innovation ecosystems thrive when communities are engaged not merely as end-users but as co-creators of knowledge, technologies, and enterprises that are aligned with their aspirations and needs;

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WHEREAS, innovation must be directed toward sustainable resource management, striking a balance between economic productivity and environmental stewardship to ensure long-term ecosystem health and resilience;

WHEREAS, the role of the government is vital in creating an enabling environment through policy reforms, investment incentives, public-private coordination, and regulatory support;

NOW, **THEREFORE**, it is hereby resolved that the government, in partnership with academia, industry, civil society, and local communities accelerate the development and implementation of bioscience solutions in driving social innovation and transforming enterprise ecosystems, including commercialization of such solutions with global market potentials, by adopting the following strategies:

Government Policies and Institutional Support
Lead: Department of Economic Planning and Development, Department of Trade and Industry, Private Sector

- Integrate and harmonize bioscience research and technologies into national policy frameworks and local implementation guidelines;
- Ensure comprehensive science-informed policies across value chain ecosystems;
- Develop innovative communication strategies to increase stakeholders' access to support programs;
- Incentivize public and private sector engagement through fiscal incentives and co-funding schemes that directly improve economic conditions across stakeholders;
- Refine monitoring and evaluation metrics for improved income and quality of life of farmers and fisherfolks;
- Streamline and create clear, efficient, and supportive regulatory frameworks that address local conditions and maintain quality and safety standards, particularly for emerging local bio-based industries;
- Strengthen blue economy industries balanced with the enforcement of coastal and marine environment protection, solid waste management, and other relevant laws; and
- Promote community adoption and ownership of bioscience technologies by ensuring local participation in design, implementation, and validation processes.

Sustainable Resources Management
Lead: Department of Environment and Natural Resources, Department of Agriculture, Private Sector

- Balance the creation of wealth with the conservation and protection of existing resources

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for future generations;

- Promote citizen science initiatives in community-based resource management to enhance local knowledge and improve environmental monitoring; and
- Promote the use of ecological modeling to guide the restoration of communities to ensure resilient food systems and biodiversity.

Capacity-building
Lead: Department of Science and Technology, Commission on Higher Education, Higher Education Institutions, Private Sector

- Invest in education and capacity-building programs, especially in underserved populations and emerging markets, to empower communities to adopt and benefit from bioscience-driven innovations;
- Promote integration of indigenous knowledge and sustainable practices on bioresource management in formal and non-formal education/curricula;
- Strengthen popular participation in bioscience innovation, especially in roles like infomediaries, to optimize the benefits of digital platforms;
- Enable farmers to access digital technologies that would expose them to price transparency, and foster equitable value distribution across the supply chain;
- Support the amendment of the Dual Citizenship Law to allow individuals with dual citizenship (Philippines & another country) to become regular faculty members/mentors in state universities and colleges, and enable them to participate in the acquisition of research grants; and
- Increase investment in human resource development, research translation, infrastructure, and technology utilization.

RESOLVED FURTHER, that NAST shall endorse these resolutions to the relevant government agencies and the private sectors for mainstreaming these strategies in their work plans and funding programs.

RESOLVED FINALLY, that NAST shall develop a monitoring framework for the implementation of these resolutions.

DONE this 10th of July 2025 in the city of Manila, the Philippines.

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