

PAGTANAW 2050: Agham Tungo sa Mabuting Kinabukasan (FORESIGHT 2050: Science for a Sustainable Future)

44th Annual Scientific Meeting

13-14 July 2022

RESOLUTIONS

WHEREAS, a thorough understanding and appreciation by all Filipinos of the current and emerging developments in science and technology (S and T) are necessary to be economically competitive and to pursue sustainable development;

WHEREAS, “Foresight in science, technology, and innovation” is now being adopted by many countries to craft a forward-looking S and T agenda which anticipates trends that are driving the preparations for the challenges and opportunities of the future;

WHEREAS, the population of the Philippines is projected to reach 145 million by 2050 which along with other major challenges, such as climate change, serve as significant drivers for science, technology, and innovation;

WHEREAS, a foresight process should be conducted using systems thinking in the context of the aspirations of the Filipino people as expressed in the Philippine Constitution of 1987, AmBisyon Natin 2040, Republic Act No. 8425, Department of Science and Technology Harmonized National Research and Development Agenda, and the United Nations Sustainable Development Goals 2030;

WHEREAS, upon the initiative and with the support of the Department of Science and Technology (DOST), PAGTANAW 2050, “The Philippine Foresight in Science, Technology and Innovation,” was completed by the National Academy of Science and Technology Philippines (NAST PHL), as the first multidisciplinary, interdisciplinary, and transdisciplinary endeavor in the Philippines to conduct foresight in science, technology and innovation;

Correspondence:

NAST PHL
secretariat@nast.dost.gov.ph

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WHEREAS, PAGTANAW 2050, is a living document that needs continuous updating in collaboration with local and foreign foresight expertise to create awareness of the current and emerging developments in science and technology that can be harnessed to achieve a “Prosperous, Archipelagic, and Maritime Nation by 2050;

WHEREAS, NAST PHL in completing PAGTANAW 2050 harnessed the talents of relevant stakeholders by forming multidisciplinary, interdisciplinary and transdisciplinary teams to provide the information and insights to enhance the resilience and agility of the Filipino people towards the realization of its aspirations;

WHEREAS, the Strategic Investments Priority Plan, approved by President Duterte under Memorandum Order No. 61 dated 24 May 2022, has been aligned with PAGTANAW 2050, the Philippine Development Plan 2017-2022, and the Inclusive Innovation Industrial Strategy of the Department of Trade and Industry;

WHEREAS, there is an urgent need to increase the talent pool constituted into teams that will periodically update and implement PAGTANAW 2050 in the light of current and emerging challenges and opportunities;

WHEREAS, the shortage of expertise to deal with the local concerns related to the operational areas was identified during the Regional Scientific Meetings and discussions with selected Regional Research, Development, and Innovation Councils;

NOW, THEREFORE, BE IT RESOLVED AS IT IS HEREBY RESOLVED, that both the government and the private sector:

1. Take immediate steps to accelerate and increase investments in time, talent, and funding for PAGTANAW 2050 to enable a sustainable and inclusive development agenda that gives due consideration to the diversity of our maritime and terrestrial resources and opens the doors of opportunity to the scattered communities in the many islands of the archipelago.
2. Institutionalize a foresight process at all levels of governance and to ensure continuity in the implementation of the PAGTANAW 2050 that will guide the transitions towards a truly sustainable development future such as the shift towards an inclusive and competitive maritime and circular economy.
3. Intensify and expand the development of highly trained and skilled workforce in STI, by ensuring that the basic needs of the Filipino youth are met, especially in food, nutrition, health, and access to quality basic, higher, graduate, and vocational-technical education.
4. Initiate immediate measures to improve the quality of teaching and learning in Science, Technology, Engineering and Mathematics (STEM) in basic, higher, graduate, and vocational-technical education, including in the training and recruitment of STEM teachers.
5. Exhort the relevant higher education institutions to initiate programs and establish academic units dedicated to maritime and oceanographic studies.

6. Institute measures to recruit, attract, and retain talent that will assess, design, communicate, and implement, in a timely manner, the appropriate technologies and tools in science and technology and provide insights to anticipate and prepare to deal with complex problems in all the 12 operational areas through interdisciplinary and transdisciplinary endeavors:
 - i. Blue Economy
 - ii. Governance
 - iii. Business and Trade
 - iv. Food Security and Nutrition
 - v. Health Systems
 - vi. Energy
 - vii. Water
 - viii. Environment and Climate Change
 - ix. Shelter, Transportation, and Other Infrastructure
 - x. Digital Transformation by Harnessing Information and Communications Technology
 - xi. Science Education and Talent Retention
 - xii. Space Exploration
7. Facilitate the deployment and presence of talent in the regions and the Local Government Units (LGUs) that will develop local versions of foresight taking into account the unique local conditions as follows:
 - i. Plan and manage expertise development soonest by affirmative action in upskilling local talents preferably with full support of the local governments.
 - ii. Organize consortia and networks to improve accessibility of quality basic, higher, graduate, and vocational-technical educational institutions to produce a workforce that can optimize the use of our terrestrial and maritime resources.
 - iii. Upgrade the skills of LGU-based agriculture and fisheries extension workers and barangay health workers.
 - iv. Establish an Industrial Extension Network, especially for Micro, Small, and Medium Enterprises.
 - v. Ensure active engagement of the Social Sciences in foresight exercises and impact assessment.
 - vi. Inculcate awareness of trends, shocks, risks, and uncertainties and adjust foresight in a timely manner,
8. Operationalize a system of results-based monitoring and evaluation to keep track of the progress of PAGTANAW 2050 by the public and private sectors and Philippine society, in general.

FURTHER RESOLVED that copies of PAGTANAW 2050 and this resolution be furnished to all government departments and offices, the Philippine Senate and the House of Representatives, professional organizations, private business organizations, public and private higher education institutions, non-government organizations, civic and religious organizations.

DONE this 14th day of July 2022 in Manila, Philippines.

CHAIR:

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