KSTI 2025: Science and Technology for Economic Growth and Equity

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Public Relations of UPNVJ - PRESS RELEASE – The Ministry of Higher Education, Science, and Technology (Kemdiktisaintek) officially held the 2025 Indonesian Science, Technology, and Industry Convention (KSTI) on August 7-9, 2025, at the Sasana Budaya Ganesa (Sabuga), ITB, Bandung. This event is part of the government's strategic steps to strengthen the foundation towards a Golden Indonesia 2045 through the development of a national industry based on science, research, and technological innovation.

Carrying the theme ” Science and Technology for Economic Growth and Equality ” , KSTI 2025 is a collaborative forum between the academic world, industry, government, media, and society to accelerate the transformation of the Indonesian economy into a high-value-added industry.

The President of the Republic of Indonesia, Prabowo Subianto, is targeting economic growth of 8% in the next five years, through a national industrialization strategy that relies on downstreaming, mastery of technology, and strengthening human resources (HR). This vision is in line with the 4th Asta Cita, namely "Strengthening the development of human resources (HR), science, technology, education, health, sports achievements, gender equality, and strengthening the roles of women, youth, and people with disabilities" and the 5th Asta Cita, namely "Continuing downstreaming and industrialization to increase added value domestically."

Minister of Higher Education, Science, and Technology (Mendiktisaintek), Brian Yuliarto, highlighted the urgency of strengthening national technological capacity and talent as the foundation for the transformation toward a knowledge-based economy . With its strategic natural resource potential, Indonesia has a significant opportunity to accelerate downstreaming and leapfrog high-value-added industrialization. This transformation is believed to be a key step in strengthening the nation's competitiveness and achieving sustainable economic independence.

This convention serves as a strategic forum to develop a roadmap for national industrial transformation, fostering synergy between government, industry, academia, the public, and the media. The event will discuss and formulate a research and innovation roadmap across eight key strategic focus sectors: energy; defense; digitalization (artificial intelligence and semiconductors); downstreaming and industrialization; healthcare; food; maritime; and advanced materials and manufacturing.

The selection of these eight priority industrial sectors is based on the strategic need to accelerate Indonesia's economic transformation toward a knowledge-based, high-quality, and highly competitive economy. Through the development of these sectors, Indonesia aims not only to meet domestic demand but also to establish itself as an industrial leader globally. This initiative aligns with President Prabowo's Asta Cita (Asta Cita), which focuses on economic independence, social sustainability, and technological innovation.

KSTI 2025 brings together thousands of participants from among scientists, technocrats, industry players, policymakers, and international partners. Speakers include Konstantin Novoselov, Brian Paul Schmidt, Chennupati Jagadish, and Lam Khin Yong, strategic ministers from the Advanced Indonesia Cabinet and directors of state-owned enterprises.

Sir Konstantin Sergeyevich Novoselov is a Russian-British physicist. His research on *graphene* , along with Andre Geim, earned him the Nobel Prize in Physics in 2010.

Prof. Brian Paul Schmidt is an American-born astrophysicist who became an Australian citizen. He received the Nobel Prize in Physics in 2011 for his discovery that the expansion of the universe is accelerating, providing evidence for the existence of dark energy.

Prof. Chennupati Jagadish is an Indian physicist known for his contributions to semiconductor optoelectronics and nanotechnology. He is currently President of the Australian Academy of Sciences and Professor Emeritus of Physics at the Research School of Physics, (https://en.wikipedia.org/wiki/ANU_Research_School_of_Physics) Australian National University (https://en.wikipedia.org/wiki/Australian_National_University) .

Prof. Lam Khin Yong is a physicist from Singapore who is widely known for his contributions to *computational mechanics* and *computational nanoscience/BioMEMS/Hydrogels.* He currently serves as Vice President of Industry and President's Chair in Mechanical and Aerospace Engineering at Nanyang Technology University.

KSTI 2025 will produce a roadmap for future research, to support the achievement of the development of eight strategic areas.

The convention will also feature a technology innovation exhibition, cross-sector discussions, and a national research-industry policy forum, as part of an effort to accelerate technology diffusion into the production and service sectors. Thousands of top Indonesian scientists, particularly in the STEM (*science, technology, engineering, and mathematics*) fields, will attend KSTI 2025 as active participants in a series of panel discussions in each of the eight strategic industrial sectors being promoted.

Through KSTI 2025, the Ministry of Education and Science and Technology hopes to strengthen the synergy between higher education policies, research, and industrial development, encourage the birth of a superior generation of human resources and strengthen national economic competitiveness at the global level.

General Affairs, Public Relations and Procurement of Goods and Services Bureau
Ministry of Higher Education, Science, and Technology (Kemendiktisintek)

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https://ksti2025.kemdiktisaintek.go.id (https://ksti2025.kemdiktisaintek.go.id)

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