



Building up innovation systems in Thailand

National Innovation Agency, Thailand

<http://www.nia.or.th>

Future national competitiveness is closely tied to innovation capacity and the ability to exploit new and existing markets, improve value added products, and protect innovation. A high degree of coordination and consensus will need to be established at national level between public and private sectors, in order to establish a regulatory framework, capacity building measures, and market mechanisms which stimulate innovation.

Thailand's innovation park

Innovation is an impetus for sustainable growth and development of Thailand's economy. With this in mind, National Innovation Agency (NIA) continues to work closely with both the public and private sectors to foster, promote, and facilitate innovation development in Thailand. This includes establishing suitable infrastructure that will help to propel commercialization of innovation by Thai entrepreneurs and local companies, particularly in the global arena. NIA's Innovation Park, which is the first of its kind in Thailand, is a crucial part of this initiative and will be a leading institution for incubating and creating international exposures and linkages for local start-up innovative businesses in a wide range of industries. These include the nation's strategic industries such as bio-business, industrial designs, and green industries.

Thailand's Innovation Park, initiated and managed by NIA, is located at the heart of Bangkok within the Ministry of Science and Technology and offers more than 10,000 square meters of first-class facility and supportive resources for entrepreneurs and local companies as may be required. Thailand's Innovation Park is aimed to incubate and support approximately 100 innovative businesses per year.

Soft infrastructure initiatives

Besides developing hard infrastructure such as Thailand's first Innovation Park, NIA also carries out several initiatives to provide services in

many areas. NIA's experts work closely with industries, funding sources, companies, and entrepreneurs to find the best way to commercialize new technologies and innovation. NIA's resources, networks, and collaboration with existing innovation clusters are, therefore, effectively utilized to facilitate development of innovation projects, and also to further enhance innovative capability at the institutional level.

Intellectual Property Management Unit (IPM)

IPM plays a significant role in channeling R&D outcomes to the private sector to facilitate development of intellectual property-based business. IPM offers consulting services in intellectual property protection, valuation, licensing, and management to public and private organizations, researchers, and technology owners who wish to commercialize their intellectual assets. IPM has successfully concluded a number of intellectual property licensing projects across a wide range of technology. Uniquely, we have the capacity to conduct an IP valuation of technology and intellectual assets, which is used as a basis for licensing negotiation and intellectual property management. Additionally, IPM works with domestic and international partners to raise public awareness with regard to intellectual property and commercialization of technology, including hosting conferences, trainings, and seminars on these topics on a regular basis.

Innovation Ambassador Program

NIA continues to build up a robust network of experts to work with industries to drive innovation development and increase innovative capability of individual business enterprises. Highly renowned and distinguished experts in various fields of technology and management are appointed as Innovation Ambassadors. The Innovation Ambassadors join forces with NIA to drive innovative business by reaching out to industrial sectors and markets.

Home-grown innovation

A major initiative to boost the home-grown development of drugs, vaccines, diagnostics and traditional medicine in South-east Asia is getting underway. Based on a concept developed within TDR, the Network for Drugs, Diagnostics, Vaccines and Traditional Medicines Innovation (ASEAN-NDI) brings together researchers from 10 countries of the Association of Southeast Asian Nations (ASEAN). The countries of Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic (PDR), Malaysia, Myanmar, Philippines, Singapore, Thailand, and Viet Nam are working together to create products that combat diseases common in this region of 600 million people, like tuberculosis (TB), malaria, dengue, and parasitic infections

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Innovation promotion in India's electronics industry



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Technological changes through innovations and R&D has been the main driving force for increased productivity, economic growth, social transformation, and for reshaping and redefining every sphere of our lives. Technological leadership is one of the major factors in achieving global leadership economically.

Information, Communication Technology and Electronics (ICTE) is the world's largest and fastest growing industry and is increasingly finding applications in all sectors of economy. The competitiveness of various industries is increasingly being determined by their ability to integrate ICTE in their business processes. Thus, ICTE has come to be accepted as a key enabler in development and is globally being accepted as a "Meta-resource."

Department of Electronics and Information Technology (DeitY) has acknowledged the R&D and promotion of innovation as an integral part of Electronics & ICT ecosystem and it has been supporting the entire value chain of R&D activities in the country ranging from the basic components to sophisticated product development.

The R&D Group on Innovation Promotion has from time to time initiated a plethora of programs and schemes for encouraging collaborative R&D linkages between industry and academics and boosting technology entrepreneurship at the nascent level.

Technology incubation and development of entrepreneurs

DeitY is implementing a scheme titled Technology Incubation and Development of Entrepreneurs (TIDE). Initially launched in 2008, the scheme has been revised and extended till March 2017. As per the scheme provision, 27 centers are being supported at academic institutions across India.

TIDE has a multipronged approach in diverse areas of Electronics, ICT, and Management. It aims to assist institutions of higher learning to strengthen their Technology Incubation Centers and enable young entrepreneurs to initiate technology start-up companies for commercial exploitation of technologies developed by them.

TIDE Incubation Centers provide a gamut of services to new enterprises and facilitate linkages congenial for their survival and growth. The centers network with Angel Investors and Venture Capitalists who provide mentoring and financial support to the start-ups and enable tenant companies to mature over a period of 2–3 years and ultimately graduate to a commercial place to transact actual business..

DeitY is providing financial and policy support for strengthening technology incubation activities on the premise that this would

in the long run result in indigenous development of products and packages in the ICTE sector.

Multiplier Grants Scheme

DeitY is implementing Multiplier Grants Scheme (MGS). MGS aims to encourage collaborative R&D between industry and academics/R&D institutions for the development of products and packages. Under the scheme, if industry supports R&D for the development of products that can be commercialized at institution level, then government will also provide financial support that is up to twice the amount provided by industry. The proposals for getting financial support under the scheme are to be submitted jointly by the industry and institutions.

Sponsored R&D projects under innovation promotion & IPR

Design and development of an object tracking system for environment sensitive items in transit at CDAC, Noida

The objective of the project is to design and develop a system for monitoring and logging of environment parameters (temperature, humidity, and vibration), which are very important in various situations to ensure product/object quality and performance. In the present project, a very low power consumable device has been proposed, which incorporates sensor (temperature), memory, battery, and wireless communication features to monitor and log temperature in desired intervals as set by user to ensure the quality of the product at the time of usage after storage or transportation cycle.

Development of walking apparatus (concept validation, feasibility, prototyping, and testing) at Dayalbagh Educational Institute, Agra

The objective of the project is to develop prototype of a multi-legged motor-driven walking apparatus, which is compact enough for indoor use while also having all-terrain ability to traverse soft surfaces such as sand or grass.

Design and development of a robust watermarking of still images and videos at Indian Institute of Technology, Guwahati

The objective of the project is to design and develop a system for protecting and managing ownership identification of still images and video with digital watermarking techniques.

Developing plagiarism detection engine for detecting source code plagiarism at Amrita Vishwa Vidyapeetham

The objective is to extend DVIAT (Plagiarism detection engine developed at Amrita University) to detect source-code plagiarism. The project has been recently initiated and the project team is in the process of setting up infrastructure and manpower.

IP awareness program in E&IT Sector

The project constitutes three parts, namely (i) organizing IPR awareness workshops/seminars for E&IT students, faculties, working professionals, researchers, IPR experts, and judiciary, (ii) creation of multimedia based courseware for E&IT students to be implemented by IIT Kharagpur, and (iii) customization of WIPO's IP Panorama for Indian E&IT small and medium enterprises (SMEs).

- Organizing IPR awareness workshops/seminars for E&IT students, faculties, working professionals, researchers, IPR experts, and judiciary

Under the project, 60 national/regional workshops were proposed to be conducted for various stakeholders with 50 IPR workshops for academia and 10 National level workshops for SMEs and researchers. As of now, a total of 40 such workshops across India have been supported with a fairly encouraging response.

- Creation of multimedia based courseware for E&IT students to be implemented by IIT Kharagpur

A "Multimedia portal based courseware" is being developed for the E&IT students by the Rajiv Gandhi School of Intellectual Property Law (RGSOIPL) of IIT Kharagpur. The multimedia based courseware to be delivered online is toward providing a basic understanding of IPR. Video lectures, quiz sections, and tests at the end of modules are some of the highlights of the courseware. The project is in advanced stage of completion.

- "Customization of WIPO's IP Panorama for Indian E&IT SMEs" being implemented by CDAC Pune

"Indian IP Panorama," a user-friendly e-learning multimedia product covering various facets of intellectual property rights, is now completed. Indian IP Panorama is a single window interface to increase IP awareness especially among the SME sector, academia, and researchers to identify and use Intellectual Property for competitive advantage. Apart from the 11 modules, the multimedia product also encompasses quizzes, case studies, learning sections, etc., for a broader study.

Establishment of Center of Excellence in Intellectual Property Rights by CDAC, Pune

The project has the broad objectives of evolving guidelines for the standardization of the patent applications database, enhancement of PAM s portal, i.e., <http://ict-ipr.in/>, development of advanced search options and continuation of existing services including maintenance of Patent search centers at DeitY New Delhi and CDAC Pune.

Global Wind Energy Outlook

The Global Wind Energy Council and Greenpeace International released the 2014 edition of the Global Wind Energy Outlook in Beijing today. The report shows that wind power could reach 2,000 GW by 2030, and supply up to 17-19% of global electricity, creating over 2 million new jobs and reducing CO2 emissions by more than 3 billion tonnes per year. By 2050, wind power could provide 25-30% of global electricity supply.

The new report presents three visions of the future of the global wind energy industry out to 2020, 2030 and up to 2050. The scenarios compare the International Energy Agency's central scenario from its World Energy Outlook with a 'Moderate' and 'Advanced' scenario developed especially for this report, detailing how the global wind industry might deliver in terms of global electricity supply, CO2 emission savings, employment, cost reductions, and investment.

The power sector is responsible for more than 40% of all carbon dioxide emissions from burning fossil fuels, and about 25% of our total greenhouse gas emissions. If global emissions are to peak and decline in this decade, as the science shows is necessary in order to meet climate protection goals, one focus has to be the power sector. Wind power's scalability and its speed of deployment makes it an ideal technology to bring about the early emissions reductions which are required if we are to keep the window open for keeping global mean temperature rise to 2°C or less above pre-industrial levels.

Wind energy installations totalled 318 GW globally by the end of 2013, and the industry is set to grow by another 45 GW in 2014.

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