#NPSP2019

#NPE2019

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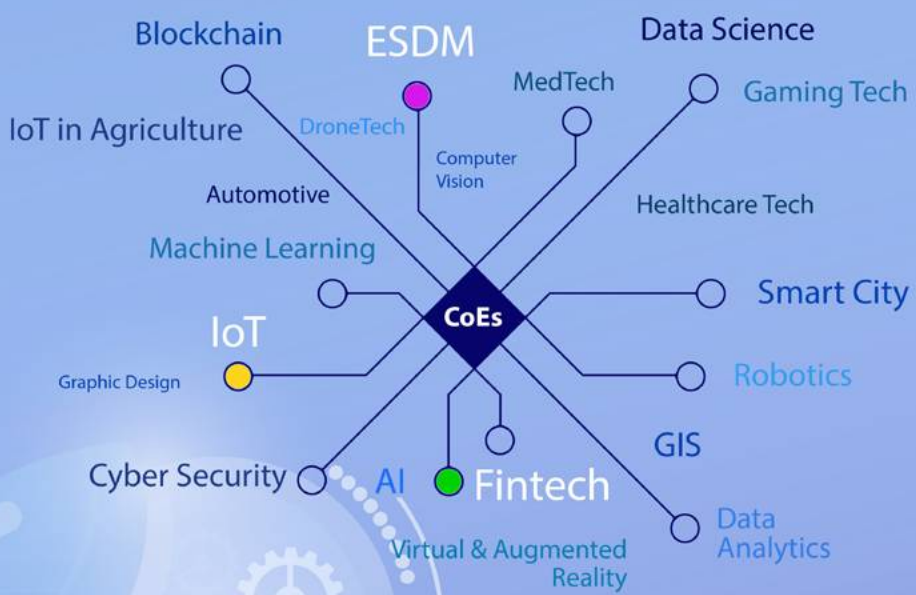

Newsletter

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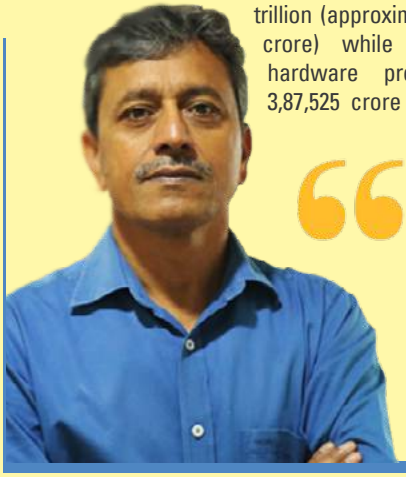
- S.R. Subramaniam
- Amit Bansal
- Arpana Singh
- Shakti Sharan Singh

Message from Director General

Indian IT industry has witnessed two significant pronouncements by the Ministry of Electronics & Information Technology, Govt. of India in the first quarter of 2019. The Cabinet approval of National Policy on Electronics (NPE) 2019 and the National Policy on Software Products (NPSP) 2019 will give impetus to the growth of ESDM and Software Industry in India and transform the country from services to a product nation. This will drive India as a global leader in conception, design, development and production of intellectual capital driven software and electronics products and accelerate the growth of entire spectrum of Indian IT industry.

Let's analyse the global landscape of ESDM industry. In 2017, the global electronics production was $ 2 trillion (approximately Rs. 1,30,00,000 crore) while Indian electronics hardware production was Rs. 3,87,525 crore (approximately $ 59 billion), with just 3% of global share, in FY 2017-18. In the same year, India imported Rs. 3,44,500 crore ($ 53 billion) electronics goods. With the rising demand for electronics hardware in the country, India is expected to spend $ 400 billion (approximately Rs. 26,00,000 crore) on electronics products by 2025. In FY 2017-18, the production of mobile handsets has reached approximately Rs. 1,32,000 crore from Rs. 18,900 crore in FY 2014-15. Observing the growth opportunities in India's electronics sector, it's evident that NPE 2019 will play a significant role in transforming India as the global ESDM hub by encouraging and driving technological capabilities in the country by indigenously building core components including chipsets and creating an ecosystem for startups and MSMEs to grow and develop world-class products in ESDM space.



From the vantage point of demand for domestic consumption of electronics products, India is far behind matching the demand. Observing this dynamics in ESDM sector, STPI in collaboration with industry and academia established Electropreneur Park (EP), the first of its kind ESDM Centre of Excellence, in New Delhi in 2016 to promote indigenous manufacturing in the entire value chain of ESDM. EP was created to promote a vibrant and sustainable ecosystem of R&D, design and innovation ecosystem to build breakthrough products and create IP in ESDM sector. What STPI envisioned in 2016 for EP is now taking shape and driving India's success in ESDM space. Today, EP has incubated 17 startups and they have filed 18 patents, launched 19 products and generated Rs. 19.5 crore revenue. The most exciting factor about EP is that it has genuinely disrupted ESDM innovation by building breakthrough products those have significantly brought in social impact. Let me cite one example of a successful EP incubatee EVI Technologies (EVIT), which is bringing disruptive innovations in e-mobility space. EVIT is developing chargers for all types of electric vehicles and the exhilarating aspect of this incubatee is that in next 3 years it's expected to be valuated at Rs. 100 crore.

While NPSP 2019 envisions India's contribution to global software product market by ten-fold by 2025 from the current market share, the Policy emphasises on the cluster-based innovation driven ecosystem by integrating ICT infrastructure, incubation facility, R&D & testing facility, mentoring & marketing support. STPI will play a cardinal role in realisation of the objectives of the NPSP. STPI has already embarked on building around 28 Centres of Excellence (CoEs) to foster domain-specific specialised incubation facility for startups in the area of emerging technologies by providing the highest standards and best practices in terms of infrastructure, technology, leadership, mentoring, training, research & development, funding, networking for the given focus area. The recent inauguration of two CoEs, IoT OpenLab and ESDM CoE, by Shri Ravi Shankar Prasad, Hon'ble Union Minister for Electronics & IT and Law & Justice is a testimony to STPI's vision for creating a vibrant ecosystem for software product development in the emerging sectors of technology like Internet of Things, Artificial Intelligence, Blockchain, FinTech, Augmented & Virtual Reality, ESDM, Data Science & Analytics, Medical Electronics & Healthcare, Gaming & Animation, Machine Learning, Cyber Security etc. by transforming India as a product nation.

"As STPI has played a transformative role in making Indian IT industry the global leader in software services, similarly it will steer the vision of the government to propel India as the world-class software product hub by fostering technology startups to bolster R&D and innovation through successful collaborative incubation models like EP and CoE."

Rapid advancements in software products development can drive India's vision to become a global leader in Industry 4.0 era. As STPI has played a transformative role in making Indian IT industry the global leader in software services, similarly it will steer the vision of the government to propel India as the world-class software product hub by fostering technology startups to bolster R&D and innovation through successful collaborative incubation models like EP and CoE. □

Cover Story

Launch of Two Centres of Excellence

Shri Ravi Shankar Prasad, Hon'ble Union Minister for Electronics & Information Technology, Law & Justice launched two STPI Centres of Excellence (CoEs) - IoT OpenLab CoE at Bengaluru and Electropreneur Park (EP), an ESDM CoE, at Bhubaneswar - at India Habitat Centre in New Delhi on 21st February 2019. These CoEs are the leading examples of collaborative incubation model to foster startups, budding entrepreneurs and SMEs to strengthen research, product development, IP creation and commercialisation of products in specific technology domain.

In order to build leadership and to create the next wave of budding entrepreneurs in the emerging sectors of technology like IoT, Blockchain, FinTech, AI, Augmented & Virtual Reality, ESDM, Data Science & Analytics, Medical Electronics & Healthcare, Gaming & Animation, Machine Learning, Cyber Security etc., Government of India recently made announcement for setting up of CoEs by STPI in specific domains spread across India.

The objective of setting up IoT OpenLab CoE is to create a technology platform for enabling innovative startups to develop IoT-based applications, products & solutions which will address not just domestic needs but will also have a global perspective. This CoE will support and nurture around 500 startups in a period of five years.

With support from Ministry of Electronics & Information Technology, Govt. of India, STPI has started replicating the model of EP, Delhi University as a highly successful collaborative initiative across various parts of India. The second in the series of EP, EP-Bhubaneswar aspires to contribute to the ESDM growth story of India through creation of a holistic ecosystem for encouraging R&D, innovation, entrepreneurship in this sector. This ecosystem will support ESDM startups to develop, promote, incubate, mentor and create breakthrough innovations in the ESDM sector. This CoE will emphasise on development of product and IP creation in the ESDM sector.

Dr. Omkar Rai, DG, STPI on the launch occasion, said, "STPI CoEs have been established to complement the momentous success of Indian IT industry in delivering superior IT/ITeS services to global behemoths. Going forward, Indian IT industry should move up the value chain by delivering innovative products in emerging technology areas. The IoT OpenLab CoE, Bengaluru and Electropreneur Park, Bhubaneswar will play a significant role in realising the vision of the Government to transform India as a product nation. These CoEs built on a collaborative model by partnering with government, industry, academia and industry associations will nurture startups and budding entrepreneurs to develop products and create IP in emerging technologies."

Highlights of IoT OpenLab CoE

Objectives: To create a technology platform for enabling innovative startups to develop IoT-based applications, products & solutions which will address not just domestic needs but have a global perspective as well

Facilities & Services

- 4,200 sq. ft. of ready-to-work plug & play space
- IoT Lab equipped with complete sample bank, test equipment & technical support
- Technical mentoring & support by in-house engineering team
- Access to financial resources, marketing support etc. under one roof enabling startups to complete the projects in time
- Hackathons and Business/Idea Challenge etc. for the selection of the best startups

Partners: STPI, MeitY, Arrow Electronics, IESA, TiE, PES Institute, RVCE, Forum Synergy and Cyber Media

Target Beneficiaries: 500 startups over a period of 5 years

Highlights of Electropreneur Park, ESDM CoE

Objectives: To create a holistic ecosystem for encouraging R&D, innovation, IP creation, entrepreneurship and employment generation in the ESDM sector

Partners: STPI, IIIT-Bhubaneswar and IESA

Facilities & Services

- Spread over 7,500 sq. ft. of built-up space
- State-of-the-art infrastructure with high-speed data connectivity
- ESDM Lab with equipment for prototyping and testing in Power Electronics, LED, Communication, RF, Communication, Embedded Hardware & Software

Target Beneficiaries: 40 incubatees over a period of 5 years

Launch of FinTech CoE at Chennai

FinTech CoE in Chennai was launched by Shri Edappadi K. Palaniswami, Hon'ble Chief Minister of Tamil Nadu (TN) in august presence of Dr. M. Manikandan, Hon'ble Minister for IT, Govt. of TN on 27th February 2019. Subsequently, MoU was exchanged between STPI and partners of FinTech CoE. This CoE will create a vibrant ecosystem by enabling startups expand R&D in FinTech domain by providing comprehensive support across the incubation lifecycle through a collaborative model and will unleash a new era of competition by bringing innovation to the fore and pushing SMEs on high growth trajectory through funding support. Dr. Omkar Rai, DG, STPI while extoling the role of STPI in setting up domain-centric CoEs across the country emphasised on how the FinTech CoE will foster startups in the FinTech sector to not only create solutions to address the challenges in financial sector but also to build world-class innovative products.

Many dignitaries including Dr. Girija Vaidyanathan, Chief Secretary, Govt. of TN; Dr. Santhosh Babu, IT Secretary, Govt. of TN; Shri Devesh Tyagi, Senior, Director, STPI; Dr. Sanjay Tyagi, Director, STPI-Chennai; Shri Santosh Kumar Misra, Commissioner of e-Governance, Govt. of TN; Shri Vijaya Kumar, MD, ELCOT and other partners of FinTech CoE were present in the event.

Highlights of FinTech CoE

Objectives: To provide complete handholding & support to innovative start-ups & entrepreneurs in working in FinTech. The services shall include access to all technical resources (including tools, technologies & technical mentorship) as well as marketing support and financial support.

Partners: STPI, MeitY, State Government, Intellect Design Arena, Yes Bank, Pontaq, National Payment Corporation of India, Unique Identification Authority of India, IIT-Madras, TiE-Chennai, Torus, RBS and PayPal

Facilities & Services

- 100 ready-to-work, plug-n-play space
- Access to APIs, payment gateways and sandbox environment of partner bank
- Sandbox environment of NPCI
- CANVAS Technology of Intellect
- Technical mentoring & support
- Access to financial resources (angel fund, seed fund, VC etc.)
- Access & support towards networking & marketing activities
- A comprehensive screening process in the form of Hackathons and Business/Idea Challenge etc. will be conducted for the selection of the best startups

Target Beneficiaries

58 startups over a period of five years

Success Story

#ElectropreneurPark

EVI Technologies

Disrupting Electric Vehicle Charging Market

EVI Technologies Pvt. Ltd. (EVIT) is an IIT-Delhi Alumni company, incubated in Electropreneur Park, providing services in the field of e-mobility ranging from setting up of Electric Vehicle (EV) charging station to technical support in designing of electrical and electronics part of EV. These charging stations can fully charge a battery in less than 80 minutes.

EVIT team has been working on providing services in e-mobility at charging stations for more than one year at different locations in Delhi, Uttar Pradesh, Chhattisgarh, Jharkhand, Bihar, West Bengal, Telangana, Madhya Pradesh, Gujarat, Maharashtra and Nepal.

EVIT's R&D team works continuously on further improving the effective combination of individual component, in order to establish high-yield and optimally coordinated efficient EV systems in the market. In order to guarantee that the end customer benefits from comprehensive and professional advice and installation, EVIT relies on partnership-like collaboration with specialised craftsman and provides them support in technical and product development of EV systems.

The company is planning to develop EV charger for all type of EVs and very soon it will develop EV Bulk chargers for 2 and 3 wheeler's battery swapping around NCR in the first phase. The company is expected to be valuated at Rs. 100 crore in next 3 years.

Electropreneur Park (EP) has played a role of catalyst in EVIT's success. Initially, the EVIT team came to EP with a proof of concept in hand. EP provided lab facilities with high tech instruments & software and helped in mentoring from the day one. This supported EVIT to make working prototype in a very short span of time. A good interaction with industries and policy makers were made possible through EP network, which helped the company to explore more in EV domain. EP labs ensured EVIT gets the right tools and guidance to design, structure the product they aspired. EP industry connects have contributed in EVIT's 1st sale and have helped to expand their product line.

The company has recently signed an MoU with India Power Green Utility Pvt. Ltd. (IPGUPL), part of SREI group to build and install EV charging infrastructure where EVIT will be acting as technology provider and IPGUPL will invest in establishment of EV charging infrastructure. EVIT has a target to install 100 charging stations in next 6 months. This will help EVI Technologies to create a user base of 15,000 and boost e-mobility mission.

EVIT has also signed an MoU with Linear Energy Pvt. Ltd. to setup 100 mobile battery swapping outlets in Delhi-NCR. All battery swapping outlets will be mobile in nature with a door step delivery option.

EVIT recently participated at IESA Vision 2019: "Intelligent Electronics Systems and Automation - Unleashing the $400bn Opportunity" an event held at Bengaluru in February 2019 and was declared the winner of "Most Promising Startup System Category".

> "EVIT's services are characterised by the highest quality standards, sustainable reliability and unrelenting performance. The system components meet the highest requirements for reliability and durability; thanks to the continuous quality controls during the manufacturing process, and strict operational checks which are according to IEC/Indian standards that our manufacturing partner works."
>
> **Mr. Rupesh Kumar** | Co-founder, EVI Tech

Activities & Events

Foundation Stone Laid for Additional Incubation Facility at STPI-Patna

Foundation Stone Laying Ceremony of additional incubation facility at STPI-Patna, Patliputra campus was inaugurated by Shri Ravi Shankar Prasad, Hon'ble Minister for Electronics & IT and Law & Justice, Govt. of India and Shri Nitish Kumar, Hon'ble Chief Minister, Bihar on 2nd February 2019 at Patna. STPI's new building with G+6 floors and built-up space of 1 lakh sq. ft. will play a vital role in providing state-of-the-art incubation facilities and catering the basic needs of the IT/ITeS/ESDM Industry. This facility will nurture startups and MSMEs for boosting technology-driven entrepreneurship in IT/ITeS/ESDM sector and promoting product development & IPR creation along with growth of IT exports and employment generation.

Many dignitaries including Shri Sushil Kumar Modi, Hon'ble Deputy Chief Minister, Bihar; Shri Kapildev Kamat, Hon'ble Minister for Panchayatiraj Department, Govt. of Bihar; Shri Sanjiv Chaurasia, Hon'ble Member of Legislative Assembly, Digha, Bihar; Shri Arun Kumar Sinha, Hon'ble Member of Legislative Assembly, Kumhrar, Bihar; Shri Nitin Navin, Hon'ble Member of Legislative Assembly, Bankipur, Bihar; Shri Ranvijay Singh, Hon'ble Member of Legislative Assembly, Bakhtiarpur, Bihar; Dr. Omkar Rai, Director General, STPI; Shri Rahul Singh, Secretary, Department of IT, Govt. of Bihar; Shri Devesh Tyagi, Senior Director, STPI and Shri Manas Panda, Director, STPI-Bhubaneswar were present in the event.

Foundation Stone Laid for STPI-Bhagalpur and STPI–Darbhanga Centres

The foundation stone for new STPI centre at Bhagalpur was laid by Shri Ravi Shankar Prasad, Hon'ble Minister for Electronics & IT and Law & Justice, Government of India and Shri Sushil Kumar Modi, Hon'ble Deputy Chief Minister, Bihar through video conferencing from Patna on 9th February 2019. Many dignitaries including Sd. Shahnawaz Hussain, former Union Minister; Dr. Omkar Rai, Director General, STPI; Shri Rahul Singh, Secretary, Department of Information Technology, Govt. of Bihar and Shri Devesh Tyagi, Senior Director, STPI were present at Bhagalpur.

The upcoming STPI-Bhagalpur centre, a joint effort of Central and State Government, is a step forward to facilitate and support the dynamic entrepreneurs of the state to explore global opportunities in IT/ITeS exports. The state government has provided 2 acres of land to STPI for setting up of the centre.

STPI will initially create 10,000 sq. ft. of built-up space for setting up the centre at Bhagalpur. The centre will have state-of-the-art infrastructure for providing raw and plug-n-play incubation facility to IT/ITeS/ESDM industry especially to startups and entrepreneurs of the region.

On the same day, the foundation stone for STPI-Darbhanga centre was laid by Shri Ravi Shankar Prasad, Hon'ble Minister for Electronics & IT and Law & Justice, Government of India and Shri Sushil Kumar Modi, Hon'ble Deputy Chief Minister Bihar in the august presence of Shri Sanjay Saraogi, Hon'ble Member of Legislative Assembly, Darbhanga; Shri Jibesh Kumar Mishra, Hon'ble Member of Legislative Assembly, Jale; Shri Arjun Sahani, Hon'ble Member of Legislative Council; Shri Sunil Singh, Hon'ble Member of Legislative Council and Shri Manas Panda, Director, STPI-Bhubaneswar.

Features and Benefits of STPI Centres:

- Promote the region as one of the preferred IT destinations and attract IT/ITeS/ESDM companies to the state
- Boost IT Software and Services exports from the region thus contributing to the Gross National Exports
- Provide Statutory Services under Software Technology Park (STP) & Electronic Hardware Technology Park (EHTP) Scheme
- Provide state-of-the-art Incubation facility, High Speed Data Communication (HSDC) and other value-added services
- Encourage innovation, creation of IPR & product development
- Mentoring & Promotional support
- Offer a vibrant ecosystem for creating a maker culture among the young techno-entrepreneurs & startups
- Stimulate to create direct and indirect employment opportunities

Inauguration of 59th Centre of STPI at Deoghar

STPI-Deoghar as the 59th centre was inaugurated by Shri Nishikant Dubey, Hon'ble MP, Godda on 16th February 2019. Built on 3 acres of land with constructed area of 45,000 sq. ft., STPI-Deoghar is a step forward to facilitate and support the dynamic entrepreneurs of Jharkhand to explore global opportunities. With state-of-the-art incubation facility, HSDC and other value-added services, the centre will promote the startups and MSMEs in IT/ITeS/ESDM sector to boost IT/Software exports from the state and create direct and indirect employment opportunities for the local talent.

Land Handover Ceremony at Tirunelveli

The Land Handover Ceremony for setting up STPI Incubation Centre at Manonmaniam Sundaranar University Campus at Tirunelveli was presided over by Dr. Omkar Rai, Director General, STPI through video conferencing on 14th February 2019. During this event, Dr. K. Baskar, Vice-Chancellor, MS University handed over the land documents to Dr. Sanjay Tyagi, Director, STPI-Chennai. Dr. Rai emphasised on the importance of academia's role in shaping the future of IT industry and explained how the collaborative model used by STPI is not only sustainable but also inclusive. This model is inspired by Hon'ble PM's vision of "Collective efforts, inclusive growth," he added. Further, he thanked MS University for taking the initiative to boost the startup ecosystem in Tirunelveli through the upcoming STPI Incubation Centre.

Emerging North East 2019

Emerging North East 2019, an initiative of ASSOCHAM for creating a comprehensive medium for personal interaction and direct association between buyers and sellers, was organised during 20th-22nd February 2019 at Guwahati.

Smt. Bijoya Chakravarty, Hon'ble MP, as chief guest said, "Emerging North East 2019 is a knowledge sharing platform aimed for the growth and development of many agri-businesses, agri-entrepreneurs, farmers and food processors of the North Eastern region."

The event comprised Development Expo 2019, Agri and Rural Expo, industrial Expo and North East Development Meet to provide an opportunity for the region to showcase its potential and opportunities for the rest of the country to offer what it has to for partnering and engaging to explore the opportunities and participating in the growth and development of the region. The three-day event brought a large number of the national and international stakeholders from the industry, institutions, Government and the development sectors to showcase the programes and schemes, products, technologies and services and deliberate upon the issues and opportunities moving forward. Representatives of various government organisations, industries and STPI-Guwahati participated in the event.

Meeting for Setting up Automotive CoE

All stakeholders met in STPI-Pune office for setting up of Centre of Excellence (CoE) in Automotive in Pune on 30th January 2019. This CoE will further strengthen the startup ecosystem in Automotive sector and foster research and innovation to build and commercialise innovative products in this space. The proposed CoE will host physical lab facility, state-of-the-art incubation centre along with training, mentoring, networking & marketing support, access to the financial resources, IPR and other support services for the benefit of the startups.

Officials from Ministry of Electronics & Information Technology, Govt. of India, State Government of Maharashtra, Automotive Research Association of India, Society of Automotive Engineers of India, Tata Motors Ltd., KPIT Technologies Ltd. and Visteon Technical & Services Centre Pvt. Ltd. participated in the meeting. During the meeting, Shri Sanjay Kumar Gupta, Director, STPI-Pune explained the roadmap of this proposed initiative. Chief Mentor Dr. Ganesh Natarajan also shared insights on focus of Automotive CoE, model of incubation and contribution of each stakeholder towards adding value to strengthen the Automotive industry.

IESA Vision Summit 2019

Based on the theme "Intelligent Electronics Systems & Automation - Unleashing the $400 Billion Opportunity", the 14th edition of IESA Vision Summit 2019 event was held during 19th-20th February 2019 at Bengaluru. Dr. Omkar Rai, Director General, STPI while delivering inaugural address emphasised on how the collaborative model comprising the participation of various stakeholders such as industry, industry associations, academia and government has resulted in successful programmes like Electropreneur Park to foster research & innovation and drive technology-fueled entrepreneurship in Electronic System Design and Manufacturing (ESDM) space. He further accentuated how domain-specific STPI CoEs would transform India into product nation and create huge job opportunities.

The Summit was a great platform for businesses to envisage the future and drive the initiatives/policies of the Industry, that will propel the Government to succeed in the thought process of 'Think Global but do local' and 'Make in India'. The Summit focused on different strategies to aim at the turnover of $400 billion in domestic electronics consumption by 2025, along with promoting ease-of-doing business for the entire ESDM sector and encouraging industry-led research, development and innovation.

Dr. Rai and Mr. Anil Kumar, Chairman IESA exchanged Statement of Intent to support tech startups across India.

STPI sponsored the event and allocated stall to EHTP unit Peninsula Electronics as part of industry promotion initiative. Shri Shailendra K. Tyagi, Director, STPI-Bengaluru and other officials from STPI were present during the event.

Letter of Intent with STPI

STPI will be unveiling over twenty software and hardware focused Centres of Excellence (CoEs) across India. The aim of these CoEs will be to spur exchange of ideas, promote knowledge sharing, and support entrepreneurs with market access, technology and mentorship. IESA exchanged a Letter of Intent with STPI to be the industry partner for the hardware-focused CoEs across India. As part of this engagement, an online platform – E-Playground – will be introduced to connect all stakeholders of the startup ecosystem.

INDIASOFT 2019

INDIASOFT 2019, the annual flagship IT event organised by Electronics and Computer Software Export Promotion Council (ESC), sponsored by Ministry of Commerce & Industry, Govt. of India and supported by STPI & Govt. of Telangana, was held during 4th-5th February 2019 at Hyderabad. The event facilitated the building of competencies by providing Indian participants with an indepth understanding of technology, market development and demand dynamics to assist in strengthening their foothold globally.

The event was attended by nearly 400 ICT buyers from over 60 countries. Over 200 Indian IT SMEs showcased their innovations and products in various segments such as Software Development/ Products & Services, M2M/IoT, Web & Mobile Application Development, Cloud Computing, Automation/Embedded System/ AI, Information & Cyber Security, Animation/Gaming, Social Media & Digital Marketing, Consumer Electronics, Components, Electronics Manufacturing and Blockchain.

Shri Anup Wadhawan, Secretary, Department of Commerce, Ministry of Commerce and Industry, Govt. of India in his keynote address said, "IT industry will grow at 10 per cent. Sectors such as pharma, engineering products, textile, gems and jewellery and leather products will drive exports." He further added that the government has been regularly discussing issues related to policy and regulation and adjusting accordingly, and the current trade tussle between the United States and China could benefit India. He visited STPI pavilion and interacted with the exhibitors along with Shri CVD Ramprasad, Director, STPI-Hyderabad and Shri Nalin Kohli, Chairman, ESC.

STPI sponsored 20 exhibition stalls to IT SME/Incubatees under STPI jurisdictions pan India for participation in the event.

Workshop on India as Global Leader in Computer Software: Issues & Options

STPI-Chennai organised a workshop on "India as Global Leader in Computer Software: Issues & Options" on 26th February 2019. Dr. Jebamalai Vinanchiarachi, Principle Advisor (Retd.) to the Director General of United Nations Industrial Development Organization (UNIDO), Vienna, Austria delivered the keynote speech. Incubatees operating from TechNest Incubation facility at STPI-Chennai, STPI staff and Dr. K. Basker, Ex-Vice Chancellor, MS University participated in this workshop.

Future Factory India Confex 2019

The Future Factory India Confex 2019, organised by Messe Frankfurt Trade Fairs India Pvt. Ltd. & Thinc India, co-hosted by STPI and supported by Maharashtra Industrial Development Corporation, was held during 11th-12th March 2019 at the Bombay Exhibition Centre in Mumbai. The event focused on the convergence of IT & OT and disruptions brought about by emerging technologies in the smart manufacturing landscape.

While inaugurating the two-day Confex, Dr. Omkar Rai, DG, STPI accentuated the role of Indian IT Industry in transforming India as the global leader in Industry 4.0 era and asserted: "As the largest outsourcing nation, India holds 56% of the share of global outsourcing of tech services. The nation holds the position to empower and enable migration to Industry 4.0. To support this vision, Government of India has recently announced National Policy on Software (NPSP 2019), which aims to make India move beyond an IT service nation and make it a technology-led product nation. Overall market size for technology product is USD 445 billion, whereas India's share currently is only 7.1 billion. Through this policy and subsequent measures, India aims to capture USD 70-80 billion market share by 2025, both through domestic and export technology requirements."

STPI Pavilion offered free exhibition space to its incubatees and startups such as Unisoft Systems, WITS Interactive Pvt. Ltd., World Vision Infotech Pvt. Ltd. and Lexicon Networks India Pvt. Ltd. to showcase their expertise in IoT, IIoT, Cloud, Big Data, 3D Printing, AR & VR, AI and M2M. The event was attended by industry leaders including 300 CXOs and professionals from various sectors.

DIPEX 2019: Betterment of Rural Life

DIPEX 2019, India's one of the largest and most prestigious state-level exhibition-cum-competition of projects and working models prepared by the students of Diploma, Degree, PG in Engineering/ Technology as well as Agriculture in the states of Maharashtra and Goa, was held during 2nd-5th March 2019 at Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded. The event was organised by ABVP and SRIJAN to promote the entrepreneurship and research for the youth to enhance their technical capabilities. Based on the theme 'Betterment of Rural Life', the 30th edition of DIPEX attracted 800 participants from 113 colleges in the competition. A student of Kolhapur Institute of Technology won the first prize for mulching paper spreading machine project.

Shri Sanjay Kumar Gupta, Director, STPI-Pune participated in a panel discussion on 'Industry-Academia Revolution' and emphasised on various initiatives taken by STPI. Further, he explained about the Government of India's various initiatives such as Startup India, Digital India, Centre of Excellence and National Policy on Software Products.

Chandigarh's Time Innovation Challenge

The event "It's Chandigarh's Time Innovation Challenge" was organised by Times of India and Chandigarh Angels Network on 26th February 2019 at STPI-Mohali Incubation Centre to encourage innovation and entrepreneurship in the Tricity. Punjab Governor and UT administrator Shri V P Singh Badnore was the chief guest of the event. A panel discussion on "Creation of an Entrepreneurial Ecosystem in Chandigarh Tricity" was also organised during the event in which distinguished panelists like Shri Vijay Inder Singla, Minister for IT and PWD, Govt. of Punjab; Dr. Omkar Rai, Director General, STPI and Vini Mahajan, Additional Chief Secretary, Govt. of Punjab Shared their views on how the Tricity can become an innovation hub of North India by focusing on the growth of startups in emerging technology areas.

While addressing on the panel discussion, Dr. Omkar Rai, DG, STPI said,

"STPI is coming up with 'Startup Punjab Hub' in collaboration with Govt. of Punjab, Indian School of Business and Punjab Technical University with a mission to establish a Centre of Excellence in Big Data & IoT, especially in Agriculture and Healthcare sectors.

Talk on "Role of Strategy in Building Scale"

A talk titled "Role of Strategy in Building Scale" was organised by STPI-Bhubaneswar on 4th January 2019. The talk was conceptualised and delivered by Shri Subroto Bagchi, Chairman, Skill Development Authority, Odisha.

Shri Bagchi held the participants spellbound with his brilliant insights on the crucial role of strategy that a company plays in building and scaling up business. He underlined strategy as one of six key factors for growth, the others being scaling up sale, intellect, reputation, smarter employees and inherent capacity of the organisation to deal with adversity. He emphasised that on the strategy front, one may need to set monstrous goals which may look seemingly unachievable at first. Then one can learn from unusual events which are not directly related to the business of the organisation, take a long view of time instead of getting lost in the present, carefully evaluate adjacency and when required should muster courage to forgo something of value for realising bigger dreams.

He cited relevant incidents and episodes from growth stories of companies doing business in different domains like Unilever, Infosys, TCS, Suguna Chicken and Biocon to supplement his views and drive his points home.

He adopted an interactive style of communication and views of all participants were sought on important aspects covered during his talk. The talk was attended by more than 60 CEOs and senior executives of the IT industry of Odisha.

TiECon Chandigarh 2019

The fourth edition of TiECon Chandigarh 2019, the biggest conference for startups and entrepreneurs in North India, was held on 16th February 2019 at Mohali. Based on the theme "Start, Grow and Scale", the event was organised by Chandigarh Chapter of TiE Global. Over 50 startups from Punjab and Chandigarh participated in the event to showcase their products and services in various domains including IT, EdTech and e-Commerce.

More than 800 participants and 50 renowned speakers including entrepreneurs, mentors, investors, ecosystem builders, educationists, policy makers and business leaders participated in the event.

Inauguration of Integrated Startup Complex

Integrated Startup Complex of Kerala Startup Mission at Kerala Technology Innovation Zone, Kalamassery, Kochi was inaugurated by Shri Pinarayi Vijayan, Hon'ble Chief Minister of Kerala on 13th January 2019. With 180,000 sq. ft. built-up space, the complex will host one of the largest startup ecosystems in the country with incubators, accelerator, Centres of Excellence in emerging technologies.

The Electronics System Design and Manufacturing (ESDM) facility and Hardware Incubator - Maker Village, a joint initiative of Ministry of Electronics & Information Technology, Govt. of India, Govt. of Kerala and Indian Institute of Information Technology and Management, Kerala, was officially launched during the event. With 65 hardware startups from across the country, developing products in cutting edge technologies, Maker Village is the largest Electronic Hardware Incubator in the country.

Shri S.R. Subramaniam, Director, STPI-Thiruvananthpuram attended the inaugural function and underlined how STPI has already pioneered the culture of CoE in ESDM space by establishing Electropreneur Park in New Delhi and Bhubaneswar.

Participation in Vibrant Gujarat Global Trade Show

STPI-Gandhinagar participated in the Vibrant Gujarat Global Trade Show 2019 event held during 18th-22nd January 2019 at Gandhinagar. This biennial event is one of the largest trade shows in the world. The 9th Vibrant Gujarat 2019 Summit was all about laying the foundation for shaping a New India envisioned by the Hon'ble Prime Minister Shri Narendra Modi.

STPI-Gandhinagar showcased the important aspects of STPI's incubation facilities at Gandhinagar and Surat in providing state-of-the-art infrastructure with modern technological amenities to nurture startups and budding entrepreneurs of the region.

Pre-Fab Academy Training

The Pre-Fab Academy Training at STPI-Bhubaneswar was launched by Dr. Omkar Rai, Director General, STPI through video conferencing on 18th March 2019. He underlined how Fab Lab programme can foster a vibrant ecosystem for building a maker culture among startups, young entrepreneurs and enterprises for transforming ideas into superior products. More than 20 STPI officials from various centres participated in the training programme to learn the functionality and creativity of Fab Lab. STPI has come up with the first Fab Lab at Bhubaneswar with support of Electronics & IT Department, Govt. of Odisha and Fab Foundation, USA.

Fab Lab is the educational outreach component of Massachusetts Institute of Technology's Centre for Bits and Atoms (CBA), an extension of its research into digital fabrication and computation. Fab Labs provide users around the world the ability to locally conceptualise, design, develop, fabricate, and test almost anything. Fab Lab connects to a global community of learners, educators, technologists, researchers, makers and innovators through a knowledge sharing network that spans 30 countries and 24 time zones.

Industry professionals representing Hardware & ESDM sector from local startups and MSME units visited Fab Lab, Bhubaneswar on 27th March 2019. Mr. Francisco Sanchez from Fab Foundation, USA explained the operations of various machines & facilities

created therein. The visitors evinced keen interest in the facilities of the Lab and were able to visualise how they could make the best use of the same in their business.

The STPI Fab Lab Programme would offer a vibrant ecosystem for creating a maker culture among the young techno-entrepreneurs, who want to develop their innovative technology idea into product prototypes with fine design functionalities. Being networked with International Fab Lab communities, STPI Fab Lab would help in creating an ecosystem of product development and manufacturing by leveraging the cutting-edge Fab Lab technologies and equipment.

Fab Lab Offerings

- The Fab Lab Programme would offer a vibrant ecosystem for creating a maker culture among the startups & young techno-entrepreneurs
- Helps in designing prototype in the field of IT, ESDM, IoT
- Convert the innovative technology idea into product prototypes with fine design functionalities
- Share the information among the industries, professionals and new entrepreneurs
- Create mentoring opportunities for the small/startup units
- Facilitate and enable the startups, innovators and researchers
- Provide a platform to learn emerging concepts, innovative business ideas and creativity
- Support the startup units to grow into entrepreneurial ventures

Nasscom International SME Conclave

Nasscom International SME Conclave was held during 10th-11th January 2019 at Kolkata. SME companies with more than 2,500 delegates, 15-plus country participation, 200-plus exhibitors, 100-plus acclaimed speakers and 100-plus CIOs across sectors participated in the event. The conclave was aimed to create a global platform for the SME companies to showcase their products, solutions and services. It also aimed to create a platform for the Global SME Community to connect and collaborate, which will help them to keep pace with the changing trends and remain meaningful in the dynamically changing IT industry.

Dr. Omkar Rai, Director General, STPI while delivering the keynote address emphasised that STPI has planned to set up 28 CoEs

in the emerging technology areas including AI, IoT, Big Data, Blockchain, FinTech, ESDM, Computer Vision, MedTech and AgriTech among others to ensure the right kind of support ecosystem for boosting research and innovation and building path-breaking products in various sectors.

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