

# T DAY

INSTITUTE FOR INFORMATION INDUSTRY  
**2015 ANNUAL REPORT**

T  M O R R O W

### Design Philosophy

Smiles: The power of gentleness!

In response to a world of constant change and challenges, smiles, creativity, and boundless imagination are our best asset in solving problems and in facing criticism and challenges. Let's open our arms and give the world a smile as we unite everyone's strengths and walk forward hand in hand, creating a moving chapter in the story of life.



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► Live Today, Love Tomorrow,  
Until Forever...



Nature selects, the fittest survives.

In a constantly changing world, enterprises, society and the economy encountered harsher obstacles and hurdles.

We find our way out through changes, breaking through the challenge of survival.

“

**Embrace changes,  
look ahead of the future!**

”

We bring prosperity to the Taiwan ICT industry at every step,

The future lies in our belief in changes and innovation.





# A Healthy & Learning Organization

The Institute for Information Industry (III) provides employees with quality jobs, places great value on occupational safety, and is committed to forming a work environment that is balanced in work-life and continuing learning, to attract and retain like-minded and excellent talent. Through its efforts in providing employees with the best workplace, III has been recognized as an Excellent Employer of Research and Development Substitute Services in 2015. In the same year, III was certified by the Health Promotion Administration of the Ministry of Health and Welfare as a healthy workplace and received the Accredited Healthy Workplace badge.

To effectively implement a healthy workplace environment, III is pushing forward occupational safety and health policies, providing educational training and health promotion courses to help employees receive the latest health information. In addition, III employed on-site doctors and health managers in 2015 to plan high-quality health examinations and to host health promotion events. As a model of corporate social responsibility, III continues to focus on the development of Digital Opportunity Centers in rural areas. III has also collaborated with the New Dawn Educare Center in Hualien to conduct volunteer services, blood donation drives, and charity events, making concrete contributions to the society and the environment.

In order to enhance the ability for visionary research and development, develop international business, and cultivate international talent, III started to promote overseas short-term training programs in 2013 for outstanding personnel, plan for mid- and long-term training programs, and establish exchange and collaboration partnerships with the world's top universities and research institutes, including the Catholic University of Leuven in Belgium, IBM Research - Almaden, USA, the US National Science Foundation (NSF), Japan Okinawa Open Laboratory, Japan National Institute of Information and Communications Technology (NICT), Japan Toyota Motor Corporation, Boise

State University (US), Northern University of Malaysia (UUM), the Japan Research Institute, Limited (JRI), International Cooperation and Development Fund Myanmar Office, and Kuwait Institute for Scientific Research (KISR), etc.

In 2015, outstanding employees were selected and sent overseas to learn about introducing advanced technologies, including software defined networking (SDN) and vehicle TVWS technology and the application of its frequencies. III has entered the field of vehicle hub research and is actively facilitating technology research and development collaboration programs both domestically and overseas. III is also placing great effort towards expanding work overseas by sharing the experiences of Taiwan's e-enabled government, smart traffic, and smart schools, and by assisting domestic information and communication companies to enter the international market. III enhances the technological expertise of research and development teams, enriches individual vision and overseas experience. Concurrently, III helps teams and domestic information and communication industries to obtain new business opportunities, creating opportunities for individual, organizational, and industrial success.

Short-term overseas training programs have greatly improved the employees' research quality, expanded our international perspective, and benefited the establishment of personal networks. The same time, it has built up III's human resource strength, enabling the organization to maintain its competitive advantage.



Occupation Category (%)

R&D	61.74
Industry Development	22.16
Administration	14.77
Cross Category & Uncategorized	1.33



Education (%)

Doctorate	9.65
Master's	66.43
Bachelor's	19.40
Associate Degree & Others	4.52

Data prepared: June 1, 2016





## Promotion of Patent Portfolio and Value-Added Applications

The Institute for Information Industry (III) uses "software + service" to improve technology transfer, to encourage companies to expand their solutions to the international market, and to assist companies in improving the application value and applicable range of their results, thereby putting into effect the industrialization of technology programs. Over the past 3 years, there were 331 cases of technology transfers to manufacturers, with the investment by manufacturers totaling NTD 15.3 billion (as shown in Fig. 1). In 2015, the income generated by technology transfers reached more than NTD 150 million, which accounts for 15.4% of funding for technology program research and design, with 8 cases of high efficiency technology transfers valued at more than NTD 5 million each, among which the I-Campus integration solution encouraged Wiedu company to found TibaMe education career branch to accelerate its sales development and strategy. Starting from 2016, Wiedu will collaborate with our institute to develop digital courses. The investment amount of the collaboration is estimated to be more than NTD 50 million.

In recent years, the III patent strategy has focused more on improving quality than the development of quantity, emphasizing international patent applications and strengthening the deployment of key patents. Over the past 3 years, there has been an annual average of 275 patent application cases. In 2015, the ratio of national and international patent application was 1:2, of which invention patents accounted for 98.8% and utility model patents accounted for 1.2%. The domains include: LTE wireless interface, self-organizing network, environment-sensing and control, big data analysis, information security, contract capacity estimation and optimization, demand management system, sensor data capturing/processing, etc.

To raise the application value of patents, III is actively promoting its patent portfolio. Our patent portfolio currently includes a wireless network communication system, a digital data processor, multimedia, and 11 other technologies (as in Fig. 2). We are also placing on our website a patent product portfolio that includes wireless central office equipment, 4G mobile commerce service, cloud storage, mobile information security, and machine tool smart service, all of which are of interest to domestic information and communication companies. Through illustration meetings, official notices, and interviews with manufacturers, we contact the companies directly to expand the scope of application by means of technology transfer, delegation, and assignment.

III also actively applies patent results (such as assisting local information and communication companies in commercialization and industrialization by assigning rights). By doing so, we won one gold medal, two silver medals, and one bronze medal at the 2015 Taipei International Invention Show & Technomart.

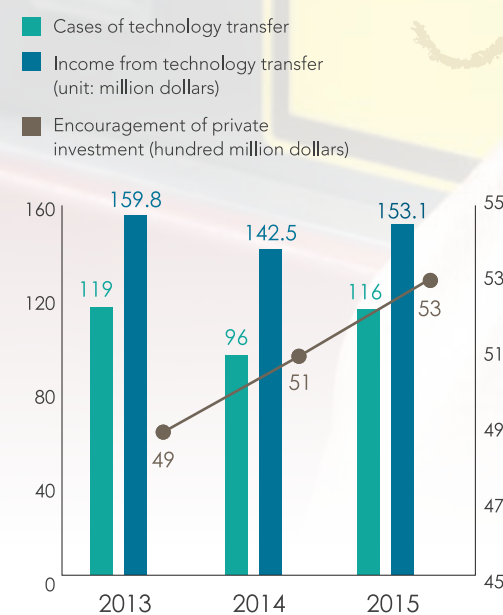


Fig. 1: Cases of technology transfers and income over the past 3 years

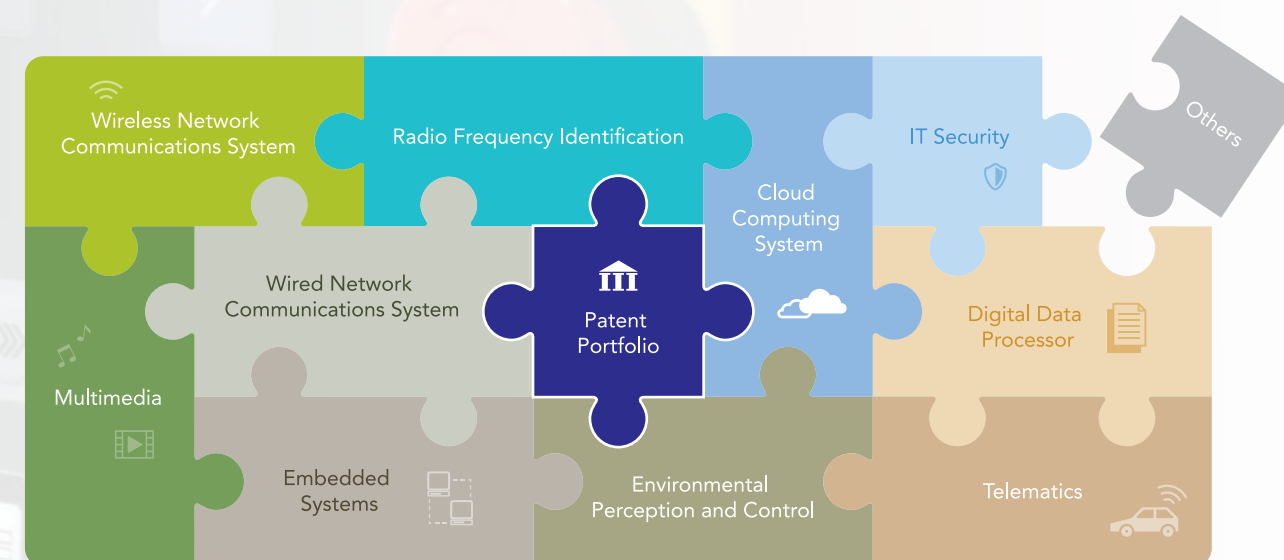


Fig. 2: III Patent Portfolio

The number of national and international patent applications and certified applications over the past 3 years.

Country / Area	2013		2014		2015	
	Number of applications	Number of certified applications	Number of applications	Number of certified applications	Number of applications	Number of certified applications
Republic of China	86	68	74	98	86	101
People's Republic of China	79	34	86	29	64	13
Hong Kong	0	0	0	0	0	1
Japan	11	5	9	5	7	3
Korea	13	3	0	12	3	6
Thailand	0	0	0	0	1	0
Philippines	0	0	0	0	2	0
United States	102	51	84	61	83	31
Canada	0	6	3	3	2	1
United Kingdom	2	1	6	5	5	1
Germany	2	4	1	0	0	1
France	0	0	0	1	0	0
European Union	4	1	3	2	7	0
Switzerland	0	0	0	1	0	0
Finland	0	0	0	2	0	0
Netherlands	0	2	0	1	0	0
Italy	0	1	0	0	0	0
<b>Total</b>	<b>299</b>	<b>176</b>	<b>266</b>	<b>220</b>	<b>260</b>	<b>158</b>



Market Intelligence & Consulting Institute

## Technology Enhanced Cultural Creativity Puts Taiwan under International Spotlight



The Institute for Information Industry (III) has collaborated with the National Palace Museum in organizing the *Giuseppe Castiglione - Lang Shining New Media Art Exhibition*, which opened in October 2015. This exhibition offers visitors a brand new viewing experience and provides insight into the life and paintings of Lang Shining.

When Italian missionary Giuseppe Castiglione came to China around three hundred years ago, he forged a unique style of painting by incorporating Western techniques of shading and perspective with traditional Chinese materials such as paper and silk that was adaptable to the emperor's taste. To emphasize the theme of "artistic exoticism," 4G connectivity and click-and-mortar new media technology were utilized to bring visitors on a journey "across time, space, and virtual reality" to experience the new aesthetics created through this extraordinary integration of Chinese and Western art.

Dozens of digital artists and creative teams with expertise in installation art, animation, sculpture, as well as technical, mechanical and mobile applications also contributed to this exhibition. In addition to new media art displays, the exhibition content also includes a smart-guide app, wearable devices, and 4K animated short films.

The smart-glass interactive guide provides visitors with a multiple-angle viewing and guiding experience. When a visitor approaches an artwork, the guide will automatically conduct image, text, and audio guides, and provide varying information according to the visitor's viewing angle.

The "Brush Master Lang Shining" app utilizes iBeacon smart-guide technology to impart real-time scientific knowledge on animal habitats, plants, and time-lapse flower blooming videos associated with the artwork on display.

The *Giuseppe Castiglione - Lang Shining New Media Art Exhibition* will be simultaneously exhibited in Taiwan and at Basilica of Santa Croce in Florence, Italy. By incorporating modern optical technology and animation art to reinterpret Lang Shining's paintings, this exhibition will inspire Italian visitors to learn more about their great ambassador of art, and is destined to become another glorious chapter in the history of Taiwan's technological and cultural creative industries.



Electric scooters are flexible, fast, convenient, environmentally friendly and regarded as the best energy-efficient transportation for short distances. However, elevated prices, prolonged battery charging durations, and safety concerns have hindered the popularization of their usage. In order to effectively increase the prevalence of electric vehicles, Institute for Information Industry (III) has revealed an innovative concept that seeks to "separate electric vehicle ownership from battery ownership," thus establishing a comprehensive industry supply chain and augmenting the development of emerging industries.



Smart Network System Institute

## Vehicle Battery Separate Ownership as a New Trend for Electric Scooters

To actualize the concept of separating battery ownership from electric vehicles and to resolve issues surrounding two wheeled electric vehicles, such as short cruising range, weak climbing power, long charging time, and expensive battery price, III has developed four critical technologies with the domestic industry—intelligent battery module technology, battery module logistics control solution, intelligent battery charging and exchange platform management technology, and scheduling technology for battery charging and exchange. These four technologies have already undergone empirical testing within the "Kenting National Park tourism zone."

Having conducted extensive testing for over a year, III has now verified the feasibility of the vehicle/battery separation business model and completed system installations on the Kenting peninsula and in Tainan's Anping District. The government has publicly announced that it is adopting this innovative service as a policy to establish a paradigm for local companies who wish to adopt similar business models. III hopes that this will stimulate and drive industry trends.

This model will be marketed to countries outside Taiwan, particularly those in Southeast Asia and Europe. For the Southeast Asian market, III is set to work with Japanese company Prostaff to develop electric tricycle taxis suited to these regions, and will cultivate the electric tricycle rental market in conjunction with power-management technologies and the vehicle/battery separation business model. In Europe, III will be working with German electric scooter supplier Govecs and Spanish electric scooter rental operator Cooltra on city tour applications. Integrated power-management technologies and vehicle-management platforms will provide tourism industries with smart transportation services.





## Servolution: the New Energy Management Solution for Machine Tools



As Taiwan's machine-tool industry approaches full maturity, this fourth largest machine-tool global exporter is focusing its powers on ICT technology, the key to intelligent machinery development. With existing integrated capacities in machinery production and ICT technological advantages, Taiwan is anticipated to play an integral part in the upcoming waves of the Industry 4.0 revolution and expand into the global markets as manufacturers become increasingly in demand for smart factories, manufacturing, and machinery.



Servolution, developed by the Institute of Industry Information, is able to transform manufacture facility signals and data into meaningful information that facilitate decision making for senior management, and provides application

service solutions for critical process data by using ICT to control factory mass data. Furthermore, it is able to convert machinery operational status into real-time production efficiency, detect and locate the reasons for equipment malfunction, and increase the data transparency of precision-machinery operations.

In the face of global trends in energy conservation and carbon reduction, green energy has become one of the primary requirements in CNC machine-tool development. In 2015, by incorporating energy-management technology with Servolution solutions, III developed a visual platform for monitoring the energy use of CNC machine tools, established an energy-management platform with integrated machinery information, developed an application-oriented middleware, and enhanced precision machinery industry value through the use of ICT, in keeping with current industry trends and future orientations.

In the future, III will continue to provide assistance to industries, respond instantly to market changes, and promote the energy-efficiency management capabilities of domestic companies. Its next focus is on sheet-metal stamping companies in the automotive industry and large-scale press-equipment manufacturers. The goal is to assist them in the implementation of latest technologies and extensively employ these technical outcomes to all types of mechanical equipment and processing applications. III anticipates that this approach will reinforce the global competitiveness of Taiwan manufactured machine tools and create new green market opportunities that comply with energy laws and regulations.

## Empowering Taiwan's Technology Sector in International Performance



The government has been aggressively promoting its integrated export policy for information and communication systems, looking to create an export market blue ocean for integrated information and communication systems and to increase the diversity and variety of Taiwan's industrial output. Through localized technical options, export of integrated technology turnkey projects, market cultivation and trust building with local partners through resident site staff deployment, the goal is to highlight the success of overseas information and communication applications, and to increase Taiwan's global visibility.

As a technical adviser and mentor of the industry promotion platform, the Institute for Information Industry (III) has guided 10 manufacturers in the accomplishment of 15 export schemes in 8 countries, creating business opportunities worth NTD200 million. In 2015, III will expand its scope of international business to include South American regions such as Peru and Paraguay. Through international collaborative projects, III will enable Taiwanese ICT companies to provide customized services in regional markets across the globe.

Aid provided by Taiwan to its diplomatic allies in Central America and the Caribbean in the past have largely encompassed the aspects of agriculture, medicine and digital divide mitigation. III has incorporated support from the diplomatic system to upgrade viable methods of cooperation that will now include practical ICT projects (including electronic official document systems, server room installation, and information security), which will provide direct solutions to political and administrative issues in ally nations. III will continue to promote globalization by bringing business partners into the global market, cultivating international talent, and broadening the industry's global vision, all of which will facilitate future exports of integrated systems and developments in international business operations.

III will replicate this success model and apply it to emerging markets and other countries to effectively reduce the marketing cost of ICT solutions. III also hopes to sustain industry growth based on existing foundations, and enable Taiwan's domestic providers to step up onto the international stage as leaders of the industry.





## INTERNATIONAL COLLABORATION

III is engaged in international collaboration projects, bringing benefits of its engineering expertise and management skills to ICT projects across the globe.

To support internationalization of Taiwan's ICT & information service industries, III expands its global network and develops exchange platforms to create business opportunities through collaborations with significant strategic partners. Promoting international collaboration and business, as well as bridging the global digital divide are III's main goals.

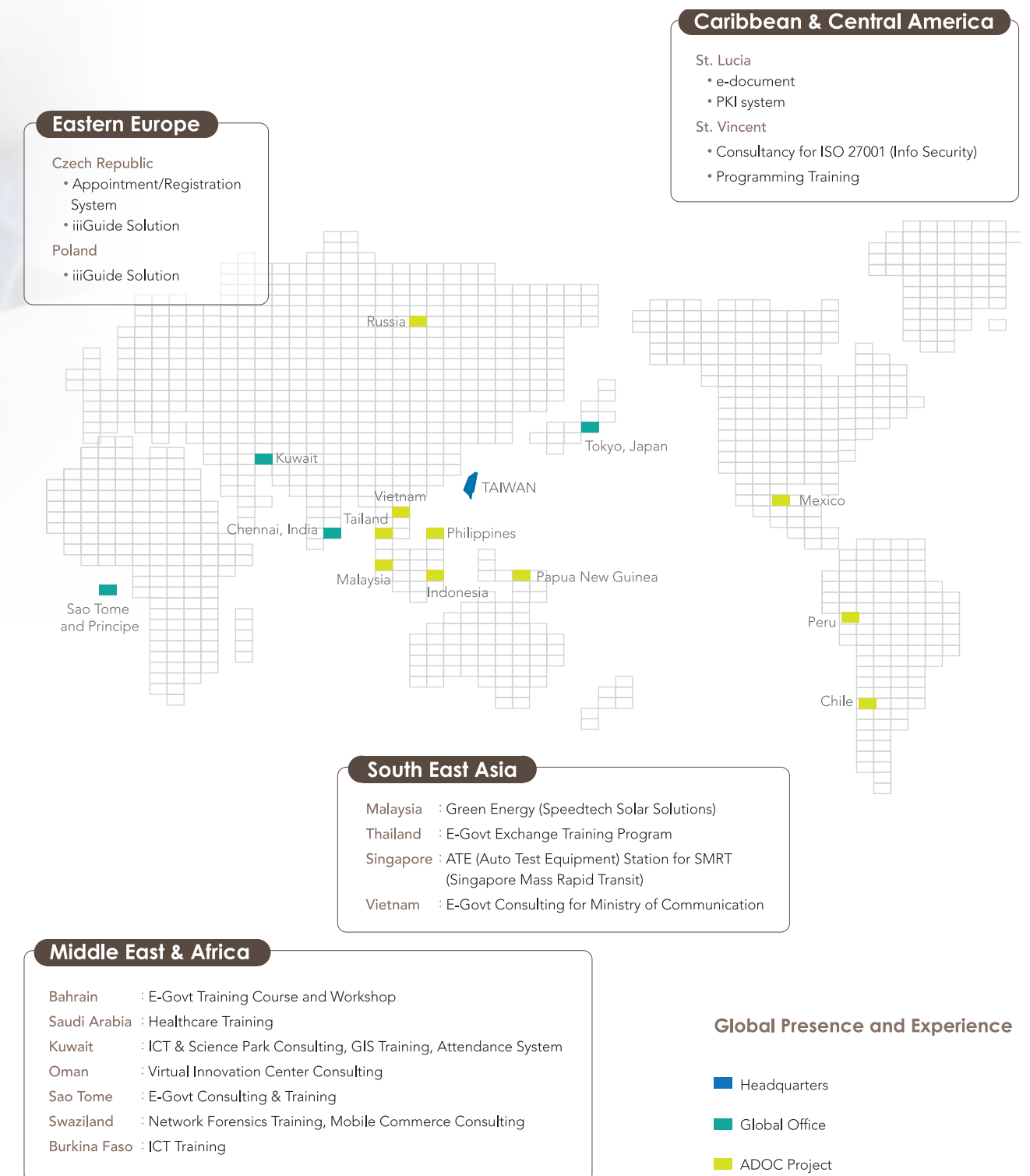
The focus of collaboration is to expedite R&D undertakings, research value and the expansion of international technology collaborations through strong cooperation with foreign enterprises and research institutes to study new emerging trends, set technological standards, and elevate the competitiveness of ICT applications.

To boost international business for Taiwan's ICT and information service industries, III cultivates professional talent for the domestic industry, promotes business incubation, market development, and mission exchanges. Besides supporting businesses, III also cooperates with the government to help bridge the global digital divide. III has helped Taiwan's ICT industry to explore emerging markets in Asia Pacific region through the establishment of the APEC Digital Opportunity Center (ADOC) network between 2004-2014.

III has also been aggressive in pushing forward the exchanges and cooperation between enterprises and local governments in Taiwan and Japan, promoting enterprise reciprocity, invigorating local economies as well as creating win-win opportunities and environments for the economic development of both Taiwan and Japan. Through deeply-rooted global interpersonal connections on the part of Japanese businesses, we hope to promote investment in Taiwan by globalized Japanese businesses, enlist SMEs with unique local features or outstanding techniques from Taiwan and Japan and promote III's domestic and international R&D items and awareness, in order to reach a deep and broad collaboration model between Taiwan and Japan.

## Global Presence and Experience

In order to actualize the vision of "Techno-Cultural Synergy, Innovation Unbounded", III actively seeks out international collaborations to introduce cutting-edge technologies and to elevate R&D capabilities. III works with the ICT industry to build an integrated marketing platform to accelerate business in the regional markets of Southeast Asia, India, the Middle East, Africa, Japan, and Greater China, to name just a few.





## International Partners

III has partnered with leaders from Government, Industry and Academia worldwide. III actively strives to establish international networks and platforms which are geared towards international exchange and to assist global strategic partners which can increase business opportunities.



## International Research Cooperation

III continues to seek strategic collaborative partners from the United States, Europe, and Japan, and all over the world, to undertake research and innovation collaboration. With international partners and overseas offices in Tokyo, Kuwait City, and Chennai India, III is able to remain globally competitive and connected. III is fully devoted to nurturing Taiwan's emerging domains of the ICT industry, such as smart cities, internet of things, convergent communication, and big data analytics, seeking true social impact by applying the R&D achievements.

Especially in the recent years, under the support of the Ministry of Economic Affairs (MoEA) Taiwan, III has cooperated with European research institutes and companies. Currently III has maintained a close relationship with more than 30 EU research institutes such as INRIA, TNO, Fraunhofer, and VTT, etc. III itself has participated or has been linked with Taiwan ICT enterprises to participate in more than 10 EU projects. In the 2013, the IoT Forum was established and III was invited to become one of the founding members. Through this network, III's research teams also joined the EU-funded IoT projects in the area of Smart Energy and Smart Commerce. III will continuously strengthen the cooperation with EU in the future.

There are 3 types of international research collaboration models that III engages in:

### Joint Research Collaboration

This type of research collaboration includes bilateral and multilateral international collaboration projects where individual participants will each contribute to the project goals collaboratively set by all participating parties, and each party is responsible for its own budget.

### Contract-Based Research Collaboration

III conducts technology research services, personnel training, and market analysis for international organizations and government agencies on a contract basis.

### Talent Exchange

The purpose of the talent exchange is to give engineers from III and partner institutes exchange opportunities so that participants can develop new experiences, competencies and relationships. Talent exchange provides hands-on experience for engineers from both sides of the participating parties.

## International Business Collaboration

III, in cooperation with Taiwanese institutes and industry partners endeavor to promote and deliver ICT technology, solutions and services to the international arena. The focus of the business collaboration has been on training, consulting services, proof of concept, proof of services, proof of business and other iterative services.

### Training and Marketing Events

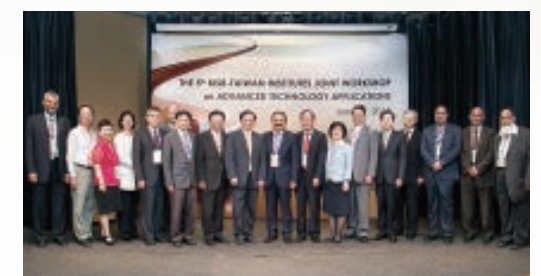
III and our industry partners have conducted technology training and marketing events in many fields and topics ranging from e-Government, Smart City, Internet of Things (IoT), Cybersecurity, Big Data and Cloud Systems, to name a few.

### Proof of Concept/Service/Business

III and our industry partners have implemented many successful international proofs of service projects in the fields of smart agriculture, e-Marketing, smart energy solutions and elearning, for instance.

### Project Consultancy Services

III and our industry partners have executed consultancy services for e-Government initiatives, Government network solutions, IT project management systems, reverse engineering workshop establishment and numerous other areas.





## Other Cooperation and Exchange

### Professional Cultivation

The ultimate vision is to upgrade the quality level of ICT professionals in Taiwan's industry and to help these individuals succeed in their personal careers by using the most effective learning methodologies.

III has been providing training solutions to assist the rapid development of the Taiwan information technology industry since 1979. With decades of experience in education and training, III has trained more than 460,000 professionals in their respective technical fields. The impact has spread to the government, academia and research institutions.

### Multinational Talent Exchange

III is aggressively pushing forward multinational entrepreneurship and collaboration between game industries in Taiwan and Japan in order to replenish outstanding cross-national talent for Japan's companies on one hand, while motivating young people from Taiwan and Japan to start their own business by leveraging youths from both countries who learn and carry on local techniques on the other hand.

### Market Intelligence Consultancy

III's Market Intelligence & Consulting Institute (MIC) is positioned to provide intelligence, insight, and unique perspective on ICT industry necessary for our clients in government and industry to make winning decisions. In a dynamic ICT environment, its regional insight uncovers nascent trends and untapped opportunities — regional insight that stands at the core of MIC's research.

### Research Reports

Research reports available for purchase include selected publications from our Industry Intelligence Programs. MIC's Research Reports include several report types, including statistical reports, topical reports, and Monographs - comprehensive research collections that give wide-ranging knowledge on various topics.

### Industry Intelligence Programs

MIC's Industry Intelligence Programs (IIP) are subscription-based programs that provide an in-depth look at a wide range of ICT sectors, including communications, computing, consumer electronics, and display. Subscribing to our programs will keep you up-to-date with the newest industry developments in your business area. IIP subscriptions are valid for one year and provide regular delivery of practical and informative MIC intelligence.

### International Events

Taiwan's information society development experience is internationally recognized as

a successful model for countries aiming to transform themselves into digital economies. Therefore, III organizes various events/workshops to share the "Core Competence and Experience" with international partners, which are primarily focused on R&D technical workshops, business matching, and entrepreneurship competition, etc.

Here are some examples:

#### • IDEAS Show

Launched in 2008, IDEAS Show serves as a significant annual event to cultivate entrepreneurship of innovative online services in Taiwan. Through a 6 minute demo/pitch and powerful publicity, Ideas Show offers a stage helping startups to penetrate the market, gain media attention increase users and attract funds. It also connects startups with international incubators and global venture capitals, to assist them entering international market.

During the past few years, this event has incubated more than 1,000 teams and accumulated a total investment of NTD 4.36 billion. III aims to provide the best support for startups and facilitate their development internationally. This event has been recognized and sponsored by APEC since 2016.

#### • Smart City Delegations

European cities are normally densely populated but have convenient public transportation system. Sustainable and low-carbon solutions are considered very important in these cities. Cultural transmission and citizen participation are the key points for the establishment of smart cities and these have also become the learning model for the promotion of smart cities around the world. As a result, III has organized delegations together with Taiwanese smart solution providers to visit European cities (i.e. Rome and Amsterdam), helping enterprises from both side to understand the current situation and needs of the smart city development in Taiwan and Europe through conferences and visits, and to further assist Taiwanese companies in generating the business opportunities in Europe.

#### • 2015 Bridge-building Forum for Enterprise Collaboration between Taiwan and Japan

On July 21, in conjunction with the Association of East Asian Relations and the Interchange Association, Japan, III organized the second bridge-building forum between Taiwan and Japan, focusing on the main themes of biotech medicine and pharmaceuticals and the healthcare industry. During the forum, an MOU to promote collaboration in the design and production of external preparation products and ingredients was signed between Taiwan's Chung Mei Pharma Group and Japan's Bankyo Pharmaceutical, turning over a new leaf for the collaboration between local Taiwanese and Japanese SMEs in the pharmaceutical industry.





## International Projects

### Sao Tome and Principe G-Net (Government Network) Project

<b>Location</b>	▶ Sao Tome and Principe (STP)
<b>Project name</b>	▶ STP G-Net (Government Network)
<b>Client</b>	▶ Sao Tome and Principe, STP government
<b>Project Duration</b>	▶ (2013-2015)

The main focus of this project is to help STP to construct a sufficient basic network infrastructure and the foundation for the Cloud based applications. In addition, this project helped STP to deploy a Desktop Cloud and Digital Opportunity Center (DOC) that will create an environment for Cloud based computing and ICT development in the future.

The G-Net Infrastructure entailed building of a backbone network for major government agencies interconnection using microwave and Super Wi-Fi technology and to install and deploy VOIP IP/video phone for government employees and officials.

It was customized to provide a high stability and an Uninterruptible Power Supply (UPS) system for a network communication system.

It also provided a software phone in a tablet or Smartphone with call out capabilities.



### Business Opportunity Meet-Up in Okinawa

<b>Location</b>	▶ Okinawa Prefecture, Japan
<b>Project name</b>	▶ Business Opportunity Meet-Up in Okinawa
<b>Client</b>	▶ Okinawa Prefecture Government, Okinawa Industry Promotion Public Corporation
<b>Project Duration</b>	▶ (2014-2015)

In Feb. 2014, the Institute for Information Industry (III) signed a cooperation MOU with the Okinawa Industry Promotion Public Corporation (OIPPC) to facilitate cooperation between the IT industries of Taiwan and Japan. On Jan. 20 and 21, 2015, the III, the Okinawa County government, and the OIPPC held business opportunity meet-ups in Taipei and Taichung, respectively. The event involved a variety of industries including the construction, machinery, green energy, cosmetics and pharmaceutical, information and communication technology, and shipping industries, allowing Japanese and Taiwanese firms to work together in procurement, marketing, technology and other areas. A total of 260 participants from 103 firms participated in this meet-up. In the future, the Taiwanese and Japanese governments will continue to actively promote this cooperative relationship, bringing new vitality and a new role to Taiwan.

### France Taiwan IoT Collaboration Project

<b>Location</b>	▶ France
<b>Project name</b>	▶ France Taiwan IoT-LAB collaboration Project
<b>Client</b>	▶ INRIA, UPMC
<b>Project Duration</b>	▶ (2013-2016)

One of III's research institutes has signed a collaboration MOU with INRIA and UPMC of France to set up an IoT-LAB in Taiwan. In August 2015, III's test lab has established connection with UPMC's Onelab, becoming the very first one in Asia. This cooperation can help the network of local companies, universities and research institutes in Taiwan to conduct large-scale testing for IoT applications and services leveraging the network's extensive 3,000 node testing infrastructure.

III built a small-scale IoT-LAB testbed through INRIA assistance and collaborating with the Strasbourg iCube lab and INRIA Urbanet team to work on Low Power Communication (LPC) and Delay Tolerant Network (DTN) Technologies in Wireless Sensor Network.

### Kuwait KISR Reverse Engineering Unit (REU) Project

<b>Location</b>	▶ Kuwait
<b>Project name</b>	▶ Reverse Engineering Unit Consulting Project
<b>Client</b>	▶ Kuwait Institute for Scientific Research (KISR)
<b>Project Duration</b>	▶ (2014-2015)

The Kuwait Institute for Scientific Research (KISR) is a long-standing partner with III.

The main goal of this project is to establish a highly professional and fully functional reverse engineering unit. According to ISO standards, at the conclusion of this project phase, KISR's Reverse Engineering Unit will be furnished with the latest equipment, instruments and engineering software such as 3D, CAD, CAM, CAE, and others which are capable of delivering high quality product prototypes as well as blueprints for potential commercialization purposes.

The REU consulting team has verified and prepared SOPs for over 20 major equipment items during the execution of the project. This has also included skills training for the REU staff.

REU has identified and confirmed three study cases to produce for the following research centers within KISR as initial projects: the Energy and Building Research Center (EBRC), the Water Research Center (WRC), and the Petroleum Research Center (PRC). Upon the successful completion of these projects, we plan to collaborate with other research centers within and outside of KISR for future projects and business opportunities.





# APPENDIX

## 2015 HONORS

### • 2015 eAsia Award

Campus food ingredients trace system, developed by DigiTech-Enabled Applications & Services (IDEAS) of III, won the top prize in the Bridging Divide category at the 2015 eASIA Awards. **1 2**

### • 2015 APICTA Awards Information Security Gold Winner Award

CIA (Cloud-threat Intelligent Appliance), developed by Cyber Trust Technology Institute (CTTI) of III, won Gold Winner Award in the security sector of the 2015 APICTA Awards. **3**

### • 2015 ASOCIO Digital-Government Award

Campus food ingredients trace system, developed by Innovative DigiTech-Enabled Applications & Services (IDEAS) of III, received 2015 ASOCIO Digital-Government Award. **4**

### • Frost & Sullivan Taiwan M2M Entrepreneurial Company of the Year

Institute for Information Industry (III) spin-off professional technical service group, Servetech, won the “Taiwan M2M Entrepreneurial Award of the Year” in recognition of its innovative product “Servolution,” which is a solution for industrial management. **5**

### • 2015 Brandon Hall Best Use of Games and Simulations for Learning

Gyrigym which is providing brain fitness services across all platforms innovated by Digital Education Institute (DEI) of III, received Bronze Medal of 2015 Brandon Hall Best Use of Games and Simulations for Learning. **6**

### • 2015 EUROINVENT Gold Medal

In-Light (Intelligent Street Lighting Monitoring System), developed by Smart Network System Institute (SNSI) of III, won 2015 EUROINVENT Gold Medal. **7**

### • 2015 ACL Chinese Semantic Analysis Champion

SER API platform, developed by Innovative DigiTech-Enabled Applications & Services (IDEAS) of III, applied to over 150 ICT companies and received 2015 ACL Champion in Chinese semantic analysis.

### • 2015 INTARG PLATINUM AWARD

In-Light (Intelligent Street Lighting Monitoring System), developed by Smart Network System Institute (SNSI) of III, won the Platinum award of International Fair of Economic and Scientific Innovations. **8**

### • 29<sup>th</sup> World Genius Convention Golden Medal

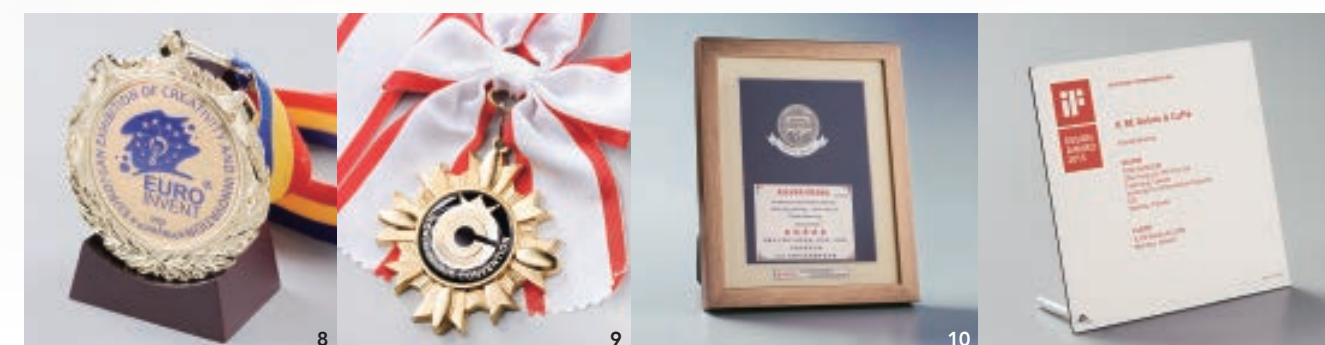
In-Light (Intelligent Street Lighting Monitoring System), developed by Smart Network System Institute (SNSI) of III, received 29<sup>th</sup> World Genius Convention Golden Medal. **9**

### • 2015 INPEX Silver Medal

iFamily-Home Energy Management Solution, developed by Smart Network System Institute (SNSI) of III, received INPEX 2015 Silver Medal. **10**

### • 2015 iF DESIGN AWARD — Communication

Central Industry Research & Service Division (CID) of III, collaborated with Ton Horizon Design to rebuild the brand, “IL • IR”, by service-oriented design thinking, and won 2015 iF Communication Design Award. **11**





## ▶ APPENDIX

## 2015 Major Events

2015/ 1/23

III collaborated with National Museum of History this time curating "Cultural Creativity Encountered with Pu Xinyu". This exhibition integrated technology with cultural creativity and perfectly combined all museum services. <sup>1</sup>

2015/ 3/31

III signs contract with MIT Media Lab creating collaborative opportunities for young start-up teams in Taiwan and the U.S. <sup>2</sup>



2015/ 4/22

Directed by Industrial Development Bureau, Ministry of Economic Affairs, III and Unity Technology collectively held "UNITE 2015 TAIPEI" to facilitate the development of Taiwan game industry. <sup>3</sup>

2015/ 4/24

III, Inspiring Super Ideas, and National Chiao Tung University collectively held the "StarMaker Dream and Star Creation Platform Orientation x Future Star Entrepreneurial Party" activity series following the "2015 Emerging Industry Incubation Acceleration Project." <sup>4</sup>

2015/ 5/30

To facilitate the promotion of government startup policies, collaborating with Fullon publishing, one of the subsidiaries of Tai Tien Electric CO., LTD., III held the 3<sup>rd</sup> "Maker Faire Taipei" & the 1<sup>st</sup> "Maker Conference - FUSIONERA" over two consecutive days. <sup>5</sup>



2015/ 6/15

The 5<sup>th</sup> KISR-Taiwan Institute Joint Workshop on Advanced Technology Applications comes to a satisfying end. The amount of business match facilitated by III reaches more than 100 million NTDs. <sup>6</sup>

2015/ 7/23

III and the Taiwan Division of International Game Developers Association (IGDA) collectively held the 4<sup>th</sup> Taipei Game Developers Forum (TGDF) and declared the beginning of the event on July 23<sup>rd</sup> in Taipei. The event was one of the most large-scale idea exchanging meetings for game developers in Taiwan. <sup>7</sup>

2015/ 8/12

III Holds "2015 e-Government and Smart ICT Workshop" at Yangon, pioneers in information & communication industry to create business opportunities for Myanmar and Taiwanese companies.

2015/ 8/20

To facilitate the technology leap and development of the digital content industry in Taiwan, III assisted US digital multimedia technology corporation AVID Technology to establish a R&D center in Taiwan. <sup>8</sup>

2015/ 11/27

Taiwan III and Paraguay PTI Sign MOU to export information and communication solution packages regarding smart city, digital learning, and energy management. <sup>9</sup>

2015/ 11/30

6 major hotels and 1 telecom firm jointly with III created the "Smart Tourism Island" device and services helps travelers to explore the ubiquitous 4G tourists' experiences. <sup>10</sup>

2015/ 12/08

Manila holds 2015 Philippines-Taiwan E-commerce seminar and B2B meeting. III facilitates contract signing and expands ASEAN business market. <sup>11</sup>



## Financial Reports

### Statement of Revenue and Expenditures

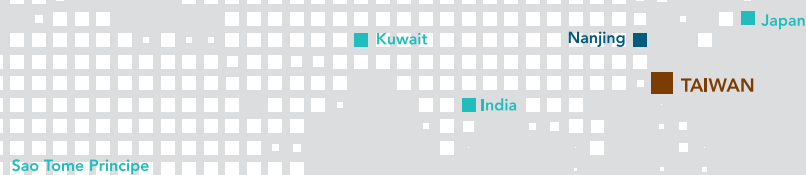
In Millions of Dollars (NTD)

Account	2015	2014
<b>Total Revenue</b>	<b>\$ 5,265</b>	<b>\$ 4,429</b>
Technology Project	1,969	1,634
Industrial Contract Service	3,135	2,668
Technology Transfers	85	63
Non-Operating Revenue	76	64
<b>Total Expense</b>	<b>5,199</b>	<b>4,372</b>
Technology Project	2,010	1,651
Industrial Contract Service	3,086	2,633
Technology Transfers	85	63
Non-Operating Expenses	14	21
Income Taxes	4	4
<b>Net Income after Income Taxes</b>	<b>\$ 66</b>	<b>\$ 57</b>

### Balance Sheet

In Millions of Dollars (NTD)

Account	2015	2014
<b>Assets</b>		
Current Assets	\$ 3,340	\$ 2,739
Cash	1,843	1,575
Notes and Accounts Receivable, Net	915	677
Prepayments	45	117
Other Current Assets	537	370
Funds and Investments	1,657	1,625
Property and Equipment	607	605
Intangible Assets	295	306
Other Assets	108	111
<b>Total Assets</b>	<b>\$ 6,007</b>	<b>\$ 5,386</b>
<b>Liabilities</b>		
Current Liabilities	\$ 1,835	\$ 1,341
Accounts Payable	\$ 1,204	\$ 984
Receipts in Advance and Other Payable	377	298
Other Current Liabilities	254	59
Other Liabilities	469	434
<b>Total Liabilities</b>	<b>2,304</b>	<b>1,775</b>
<b>Net Worth</b>		
Funds	700	700
Other Surplus	3	2
Retained Earning	3,000	2,935
Cumulative Translation Adjustments	0	(26)
<b>Total Net Worth</b>	<b>3,703</b>	<b>3,611</b>
<b>Total Liabilities and Net Worth</b>	<b>\$ 6,007</b>	<b>\$ 5,386</b>



## APPENDIX

# Domestic & International Offices

### Taiwan Offices

#### Smart Network System Institute (SNSI)

7F., No.133, Sec. 4, Minsheng E. Rd., Songshan District,  
Taipei City 105, Taiwan, R.O.C.  
886-2-6607-3888

#### Innovative DigiTech-Enabled Applications & Services Institute (IDEAS)

<http://www.ideas.iii.org.tw/>  
8F., No.133, Sec.4, Minsheng E. Rd., Songshan District,  
Taipei City 105, Taiwan, R.O.C.  
886-2-6607-2000

#### Data Analytics Technology & Applications Research Institute (D.A.T.A.)

Rm. D, 5F., No.133, Sec. 4, Minsheng E. Rd., Songshan  
Dist., Taipei City 105, Taiwan, R.O.C.  
886-2-6607-2900

#### CyberTrust Technology Institute (CTTI)

10F., No. 106, Sec. 2, Heping E. Rd., Taipei 106, Taiwan, R.O.C.  
886-2-6631-8355

#### Digital Education Institute (DEI)

<http://w3.iiiedu.org.tw/>  
11F., No.153, Sec. 3, Xinyi Rd., Taipei 106, Taiwan, R.O.C.  
886-2-6631-6666

#### Market Intelligence & Consulting Institute (MIC)

<http://mic.iii.org.tw/>  
19F, No. 216, Sec. 2, Dunhua S. Rd., Taipei 106, Taiwan, R.O.C.  
886-2-6631-1200

#### Science & Technology Law Institute (STLI)

<http://stli.iii.org.tw/>  
22F, No.216, Sec. 2, Dunhua S.Rd., Taipei 106, Taiwan, R.O.C.  
886-2-6631-1000

#### International Division (ID)

9F., No.106, Sec. 2, Heping E. Rd., Taipei 106, Taiwan, R.O.C.  
886-2-6631-8500

#### Industry Development Augmentation Division (IDAD)

11F.-1, No.3-1, Park St., Nangang Dist., Taipei City 115,  
Taiwan R.O.C. (Nankang Software Park Building G)  
886-2-6607-6000

#### Southern Industry Service Division (SID)

<http://sid2.iii.org.tw/main.php>  
3F-3, No. 2, Fuxing 4th Rd., Kaohsiung, 80661 Taiwan, R.O.C.  
886-7-966-7299

#### Central Industry Research & Service Division (CID)

No.2, Wenxian Rd., Nantou City, Nantou County 540,  
Taiwan, R.O.C.  
886-49-600-3775

#### Taiwan Japan Industry Center (TJIC)

Rm. C, 5F., No.133, Sec. 4, Minsheng E. Rd., Songshan  
Dist., Taipei City 105, Taiwan, R.O.C.  
886-2-6607-6800

### Overseas Offices

#### Japan

3F, TTD Bldg., 1-2-18 Mita, Minato-Ku, Tokyo 108-0073, Japan  
+81-3-5419-3858

#### India

Flat #208 II floor, Eldams Square 167/36 Eldams Road,  
Alwarpet Chennai 600018, T.N. India  
+91-44-42156099

#### Sao Tome Principe

Gabinete do Primeiro Ministro Rua Eng Salustino da Graca  
S. Tome, Sao Tome Principe  
+239-994-4343

#### Kuwait

P.O. Box 24885 Safat, 13109 Kuwait  
+965-9920-8895

### Overseas Exhibition Center

#### Nanjing

Nanjing Zijin Technology Incubation Special Park, Jiangning  
District, Nanjing City Innovation Park for Cross-Strait Small  
and Medium Sized Enterprises  
+86-25-6822-7399  
+86-25-6853-2305



## What is a "kaleidocycle"? ►

The structure of a kaleidocycle is called a "ring of myriad flowers". The word "kaleidocycle" is made of the Greek words *kálos* ("beauty"), *eîdos* ("shape"), and *kyklos* ("ring"). Kaleidocycles can continually rotate and change, offering a colorful and magical visual experience similar to that provided by kaleidoscopes.

The diversity of colors provided by kaleidoscopes symbolize the creative energy of the Institute for Information Industry, using new and innovative technologies to enable everyone to find the beautiful and extraordinary things in life.

## How to make a kaleidocycle ►

1. Cut along the black lines
2. Fold all white lines to form creases
3. Glue the appropriate parts together to form a cylinder
4. Press the gray areas inward
5. Press the blue areas inward
6. Press the image areas inward
7. Press the orange areas inward, and
8. Glue the image areas to the gray areas.  
You're done!





財團法人資訊工業策進會  
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Facebook Fanpage : [www.facebook.com/weloveIII](https://www.facebook.com/weloveIII)

