Introduction to the Role of III as a Government Think Tank

Institute for Industry Information, III June 21, 2016
III Missions

- Propelling development in the ICT industry
- Innovating ICT applications
- Building an information society
- Being a dedicated government think tank
Coordinating associated ministries to effectively link to technology policies and allocate technology resources

Policy Formulation & Coordination
- Consultant Meeting
- SRB Meeting
- NICI Platform

Policy Review
- Steering Group (Cloud, Digital Content)
- Administrative policy priorities
- Resource allocation proportion
- Overall output and efficiency assessment

Technical Review
- Technology feasibility
- Budget rationality
- Individual implementation efficiency

Policy Implementation
- Ministry of Science and Technology
- Ministry of Culture
- Ministry of Science & Technology
- Ministry of Health and Welfare
- Ministry of Economic Affairs
- Ministry of Education
- National Communications Commission
- Academia Sinica
- Other Ministries
III Government Policy Milestones

- Facilitating Board of Science and Technology, Executive Yuan, to formulate and implement ICT policies
- Providing policy suggestions for the government and effective strategies for business management
- Observing and analyzing polices and guidelines of emerging technologies to provide policy- and strategy-based suggestions for the government

CTTI: CyberTrust Technology Institute
MIC: Market Intelligence and Consulting Institute
STLI: Science & Technology Law Institute
These 3 Institutes within III support government policy making
CyberTrust Technology Institute, CTTI
Facilitating Board of Science and Technology (BOST), Executive Yuan in planning and propelling major ICT policies and the scope of services is as follows:

**Industry Value Creation**
- e-Commerce environment optimization
- Mobile broadband service and industry developments

**Application and Service Innovation**
- Cloud-based applications
- Open Data & Big Data applications
- Smart Living applications

**Infrastructure Optimization**
- Increasing adoption of FTTH, optimizing broadband environment
- Optimizing ICT procurement environment
Promoting Mobile Broadband Service and Industry Development Initiative

- Establishing a broadband measurement mechanism to re-innovate 3G networks
- Convening a 5G SRB Meeting to carve out the future of 5G in Taiwan
- Convened a strategic meeting in January 2014 and promulgated key principles and solutions in May 2014
- Planning and propelling the 4G Mobile Broadband Service and Industry Development Plan
- Participating EU ICT 2015 in Lisbon to promote EU-Taiwan cooperation on 5G; several EU leaders and 5G PPP chairman have acknowledged Taiwan as one of 5G pioneering countries

### Major Ideas

- **Mobile broadband network deployment**
  - 4G population coverage level to reach 98% or 13 million users as KPI

- **Mobile broadband technology development**
  - Developing Taiwan's own B4G/5G key technologies

- **Mobile broadband innovation applications and services**
  - Enriching 4G video content, poaching talent, developing 4G business model and smart city apps

- **Mobile broadband talent cultivation**
  - Fostering mobile broadband talent possessing of knowledge, experience, and capabilities

- **Consumer rights & guarantees**
  - Enhancing 4G service quality to ensure cybersecurity while reducing digital divide in rural Taiwan

### Yearly Allocation

<table>
<thead>
<tr>
<th>Year</th>
<th>Allocated Funds (NT$)</th>
<th>Approved Funds (NT$)</th>
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<tbody>
<tr>
<td>2015</td>
<td>7 Billion</td>
<td>6.27 Billion</td>
</tr>
<tr>
<td>2016</td>
<td>4.5 Billion</td>
<td>4.25 Billion</td>
</tr>
<tr>
<td>2017</td>
<td>3.5 Billion</td>
<td>3.5 Billion</td>
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### Date & 4G Users

<table>
<thead>
<tr>
<th>Date</th>
<th>4G Users</th>
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<tbody>
<tr>
<td>2014/6</td>
<td>103,905</td>
</tr>
<tr>
<td>2014/12</td>
<td>3,449,307</td>
</tr>
<tr>
<td>2015/6</td>
<td>7,208,050</td>
</tr>
<tr>
<td>2015/11</td>
<td>10,799,493</td>
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Cloud Solutions Planning and Promotion
- Propelling 10 cloud-based applications such as Food Cloud, Police Cloud, Education Cloud

Open Data Policy Promotion
- Government: assisting the government in setting up an open information platform featuring 2,800 databases
- Industry: facilitating the establishment of Open Data Alliance

Big Data Application Promotion
- Technology: coordinating with Executive Yuan to promote Cloud Service Industrialization and Big Data Applications. Plan to lure more Big Data investment from the industry, academia, and research sectors
- Application: promoting value-added medical information, social network intelligence analysis on a test field basis

Smart Living Applications
- "Science and Technology Applications & Services Group" is added to MOEA's TDP (Technology Development Program)
Market Intelligence & Consulting Institute, MIC
With industry foresight in mind, MIC assists the government in craving out a brighter future with industry policies and technology development plans.

Providing rigid and reliable industry intelligence and information for the continued sustainability of the industry.
## Track Record in Implementing Central and Provincial Government Plans

### National e-Infrastructure Construction
- National e-competitiveness development plan
- Top 10 IT application construction plan
- Bridging digital divide research plan
- Digital opportunities research plan

### Industry Upgrade & Transformation
- National smart handheld device development plan
- ICT security industry promotional plan
- Competitive advantage analysis of Taiwan’s ICT industry
- Five-year software industry development

### Emerging Industry Deployment
- 2020 Emerging industry development plan
- Cross-strait industry interaction strategies and risks
- ICT security industry research
- Cultural and creational industry research

### Mid- & Long-term Industry Strategic Planning
- Vision 2020 - Taiwan’s industry and technology development roadmap
- Vision 2025 - Taiwan’s future industry integration plan
- Research project of technology policy foresight time-map

### National Spatial Planning
- Mid- and long-term industrial park development strategy
- New Taipei City’s innovation technology park development strategy
- Taiwanese regional strength development

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Note: MIC has long participated in plans commissioned by Ministry of Economic Affairs, Council for Economic Planning, National Science Council, Board of Science and Technology, the Ministry of Culture, the New Taipei City, etc.
Executive Yuan promulgated the Guidelines for Industrial Development (April 2011), taking MIC's advices into consideration to map up the future for Taiwan becoming a global resource integrator, industry leader, and soft economy innovator with enhanced industry added-value and global competitiveness.

Following the assessment undertaken for 26 groups in the areas of biotechnology, semiconductor, energy, materials, ICT, and interdisciplinary technology, MIC has helped the governments and TDPs sort out the priorities of Foresight 2020; facilitating DOIT (MOEA) to create a proposal for a foresight TDP and set up a technical blueprint in a bit to poach vendors top-down to meet world-level standards; other provincial governments such as New Taipei City have also taken those advices into consideration when it comes to selecting an emerging industry.
Track Record in Policy Delivery and Intelligence Analysis

- Reporting directly to the heads of Executive Yuan, National Security Council, the Mainland Affairs Council, Council for Economic Planning, Science and Technology, the Ministry of Interior, the Ministry of Culture, and the Ministry of Economic Affairs on an average of five times per month; topics cover a range of areas, including cross-strait interaction and risk assessment, territory planning, industry policy, administrative visions, corporate bailout, technical cooperation, major investments, economic revitalization, and strategic foresight in the mid-to-long-term.

- Being invited to take part and/or serve as industry research advisor in numerous national-level meetings or taskforces such as Science and Technology Advisory Council, National Industrial Conference, Minister of Economic Affairs' Industrial Policy Meeting, MOEA's Adviser Conference, MOEA's Investment Promotion Conference, Three Industries-Four Reforms Plan, Investment reflux plan for Taiwanese companies investing in China, Revamped program for backbone enterprises in Taiwan, Review Committee for Chinese companies seeking to invest in Taiwan.

- Delivering real-time analyses and advices to assist the leaders of Ministries in understanding status quo and making effective responses, for instance, the impact of Japan's earthquake on the industry and supply chain, the influence of China's Red supply chain on Taiwan's contract manufacturing industry, and real-time DRAM industry updates, and renewed industrial structure analysis.
Science & Technology Law Institute, STLI
Focal Domains of STLI's Development

- Strategic analysis of IPRs
- IPR development plan
- Strengthening corporal IPR management
- Helping enterprises build a sound IPR management system
- Providing consulting and assistance programs to companies with global reach
- Integration and development of innovations in the digital content industry
- Legal supporting measures for mobile commerce and the distribution and identification of digital content
- Implementing laws, regulations, and supporting measures for the development of cultural and creative industry

- Optimizing the legal environment and policies for digital convergence
- Laws and regulations on social media smart technologies and services
- Legal research on the strategic development of the next-generation communications technologies
- Legal research on GMO produce
- Legal research on the tech applications of personal health and welfare data
- Participation in smart community demo site
- Policy research on energy ICT
- Mid- to long-term legal planning of energy management systems

- Legal environment of the virtual world and Internet cyber innovations
- Legal research on EC technologies and cloud-based innovative applications
- Promotion of personal information management systems for EC companies
- Promotion of cloud-based applications and data services
- Foresight research on science and technology laws for the government
- Improvement in government's legal environment for software procurement
- Technology service innovations/Value chain information applications for the manufacturing industry
- Information security and App security laws and regulations

- Developing a legal environment for the industry innovation system/Helping establish a comprehensive system to manage R&D results of TDP
- Research on the R&D mechanisms in major advanced countries
- Legal consultant on academic TDP promotion & management
- Talent incubation of legal professionals in technology industry
- SMBs' environment readiness for emerging technologies
- Promotion of technology startups
- Cooperation between industry and academic on optimizing the legal environment for innovations and entrepreneurship
Aside from introducing innovative practices to promote civil participation in adjusting laws to adapt to the virtual world, STLI also has propelled the legislation on closed limited-liability companies and crowdfunding.

Cooperating with the major online community GOV to set up the open platform vTaiwan, which gathers public opinions and enables real-time dialogue between social media users, government, industries, academia, and research institutes.

vTaiwan has accumulated over 920,000 page views, 277 opinion posts, and 1,267 articles, focusing on important industry issues to attract international vendors' participation. Topics include:

- Closed Companies
- Crowdfunding
- Taxation of Online Sales
- Distance Education
- e-Health
- Telework
- Guidelines for Paid Use of Open Data
- Use and De-identification of Personal Data
- Information Security Management
- Cyberbullying (Facebook)
- UberX
- Airbnb
- Guidelines for Paid Use of Open Data
- Use and De-identification of Personal Data
- Information Security Management
- Cyberbullying (Facebook)
- UberX
- Airbnb

Propelling the legislation on:
- Closed Limited-liability Companies under the Company Act
- Equity Crowdfunding: law adjustments including supporting laws related to third-party payment, and amendment to the Act Governing Issuance of Electronic Stored Value Cards.

Online Consulting Conferences Held by the Executive Yuan
- 8 meetings held during March and October 2015
- Accumulated views: 9,443

Domestic and Global Recognition
- join.gov
- Paris City Council
- Open Government Initiative of the United States
Responding to the needs of SMEs and young entrepreneurs, STLI has helped bring about adjustment and improve preparedness of the legal environment for innovators, entrepreneurs, and SMEs in Taiwan, to create a more friendly environment for entrepreneurs and build up the domestic momentum of innovation and entrepreneurship.

- Drafting the amendment to the Act for Development of Small and Medium Enterprises
- Implementing Regulations Governing Application of Investment Credit to SME R&D Expenses (9 Feb 2015)
- Implementing Regulations Governing Application of Tax Incentive to SMEs Increasing Employment (6 Feb 2015)
- Interpretations of laws governing tax credit

- Legal consultant in the promotion of Young Entrepreneurs Program and the Board of Innovation and Entrepreneurship

- Providing SMEs with legal information to cope with emerging technologies; preparing Taiwan's overall legal environment for innovation and entrepreneurship
Leveling the Playing Field for Taiwan's Digital Convergence Industry

Improving the current digital convergence development plan; reviewing what have been done or need improvements

Six conferences were held between Feb and Apr 2015 to gather opinions from experts and professionals in telecom, communications, and digital content industries

Assisting NCC in cross-ministerial negotiation and discussion; inviting all Ministries to give advice on the content and outlook of the development plan

Suggestions for the revision of the digital convergence development plan

Major Topics of the Revised Version

- Preparing Infrastructure Resources
- Building a Friendly Environment to Digital Convergence Services
- Enriching Audiovisual Content Services
- Regulatory Coherence of Digital Convergence Legal Environment
- Digital Inclusion
Establishing Comprehensive Laws for the Development of Taiwan's Cultural & Creative Industry

Industry Surveys

- Seeking Professional Legal Advice
- Gathering Opinions from the Industry
- Government Agencies to Identify Doubts

Drafting Amendment Suggestions

Solve

Implement

Draft Amendment

Suggestions

- Definition and Categories
  Re-define each industry's scope with additional explanation in notes
  Proposing mid- to long-term industry merging plans
- Tax Incentives
  Simplify the verification procedure of donations to cultural & creative industry
  Suggestions for investment credit to R&D and talent cultivation
- Regulations about Awards & Subsidies
  Provide subsidies for rent to encourage private sectors to provide space for the industry
Industry Development Augmentation Division, IDAD
### Focal Domains of STLI's Development

<table>
<thead>
<tr>
<th>Major Achievements</th>
<th>Industry Impact</th>
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<tbody>
<tr>
<td><strong>Government Policy Consultant</strong></td>
<td><strong>Removing Obstacles to e-Commerce Development Through Cross-Ministerial Collaboration</strong></td>
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<tr>
<td>● Helping with the e-Commerce section in the White Paper on Taiwan's Internet Policies</td>
<td>● Helping the Minister without Portfolio Tsai Yu-ling and Department of Commerce, MOEA, host 8 cross-ministerial meetings, proposing a comprehensive plan to promote e-commerce development, coordinating issues about the opening of online sales of medical equipment and alcohol, and cultivation of talents</td>
</tr>
<tr>
<td>● Assisting in the operation of the e-Commerce Taskforce under the Executive Yuan</td>
<td></td>
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<tr>
<td><strong>Holding the Online Shopping Festival in Line with the Government's Mandate to Stimulate Domestic Economy</strong></td>
<td><strong>Boosting Taiwan's Online Transaction Value</strong></td>
</tr>
<tr>
<td>● Complying with MOEA's policy to stimulate the food industry, IDAD held the second Taiwan Online Shopping Festival with the cooperation of 45 online/mobile companies and bakeries</td>
<td>● With vendors' cooperation, transaction value of the Taiwan Online Shopping Festival totaled NT$15.6 billion. Due to the outstanding result, MOEA asked IDAD to hold a similar festival again in December of the same year to boost Taiwan's economy.</td>
</tr>
<tr>
<td><strong>Promoting Cross-border e-Commerce</strong></td>
<td><strong>Helping Taiwanese e-Commerce Industry Go Abroad</strong></td>
</tr>
<tr>
<td>● Helping 6 companies obtain cross-border settlement qualification and apply to Taiwan's FSC (Financial Supervisory Commission)</td>
<td>● Taiwanese vendors can run cross-border online business legally and pay the taxes as required under government authority's supervision. A total of NT$2.5 billion in transaction value has been created.</td>
</tr>
<tr>
<td>● Holding the Cross-Strait Bridge-Building Project; holding exchange activities between e-commerce companies in Taiwan and the Philippines</td>
<td>● Matchmaking of e-commerce vendors: 22 cases between Taiwan and China; 6 cases between Taiwan and the Philippines.</td>
</tr>
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</table>
Highlighted Achievement: Establishing Innovative Mechanism for Government R&D Policy Tools

New
- Encouraging cooperation between industry, academia, and research institutes to accelerate the dissemination of R&D results in industries
- Strengthening domestic and global connection of resources to build a better industrial ecosystem

Key
- Familiar with the planning and design of government policy tools
- Rich practical experience
- Ability to rapidly connect the industry, academic, and research sectors

Impact
- Promoting R&D investment and industry competitiveness
- Propelling the development of emergent applications and services to improve public welfare

Evidence
- Promotion of the Global Innovation Partnership Program since 5 May 2015
- Announcement of 11 advanced projects including cloud computing and big data technologies on 10 Dec 2015

Promoting the development of emerging industries

BIGDATA
Strengthening Cooperation
Colleges, Universities; Research Institutes

Smart Connection
Meeting the Needs of Industry and Technology Development
Multinational Companies; Local Governments

Mobile Apps

Cloud Application

Accelerating industry transformation and upgrade

A+ Industrial Innovative R&D Program

Industry Upgrade and Innovations Platform Program

Industrial Value Creation Program for Academia

4G Smart City Broadband Application Subsidy Program

Innovative Policy Tools/Implications

Lining Domestic & Global Resources

IDAD

Innovation, Compassion, Effectiveness

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III has been a trust-worthy government think tank for a long time and has dedicated to coping with the rapid changes in the industry to live up to the expectations of the government and the society.

Over the years, III has promoted important laws and regulations for Taiwan's ICT industry, and provided industry insights and advice to the government. In the future, III will continue to shoulder the responsibility of a dedicated think tank, help the government propel the development of the industry, and play the role of an enabler of the transformation and upgrade of every industry in Taiwan.
THANK YOU