## 行政院及所屬各機關出國報告

(出國類別:會議)

# 出席中東電子化政府會議(GOVTEC)報告

服務機關:行政院研考會

出國人 職 稱:副處長

姓 名:林裕權

行政院研考會 編號欄

出國地點:巴林

出國期間:95年2月12日至16日

報告日期:95年4月10日

## 行政院及所屬各機關出國報告提要

出國報告名稱:出席中東地區電子化政府會議(GOVTEC)報告

頁數:18 含附件:否

出國計畫主辦機關/聯絡人/電話:

行政院研考會/林裕權/02-23419066 轉 802

出國人員姓名/服務機關/單位/職稱/電話:

林裕權/行政院研考會/資管處/副處長/02-23419066 轉 802

出國類別:其他(出席會議)

出國期間:95年2月12日至16日 出國地區:巴林

報告日期:95年4月10日

分類號/目:

關鍵詞:電子化政府

內容摘要:

行政院研考會受邀派員出席於巴林舉行之中東電子化政府會議,報告 我國電子化政府推動情形。

# 目 次

肆	,	附錄	5
參	`	心得建議	4
貳	`	會議內容	4
壹	`	目的	4

## 壹、目的

為增進我國電子化政府國際能見度,行政院研考會受邀 派員出席於巴林舉行之中東電子化政府會議,報告我國電子 化政府推動情形,並與各國交換相關經驗。

## 貳、會議內容

- 一、本次會議內容主軸有三項,分別為:構建下一代的電子化政府;電子化政府的全球典範;中東電子化政府的發展,會議議程如附錄。
- 二、2月13日上午舉行開幕儀式後,依序展開各項報告, 分別有:阿拉伯國家電子化政府的發展差距;電子化政府 計畫評估與績效評比;安全的身分識別管理;政府流程自 動化;發展電子化政府夥伴關係。
- 三、 2月14日相關報告內容有:利用資通訊科技創新政府服務;政府資通訊應用發展趨勢;電子化政府創造競爭優勢;以電子化政府促進政府效能;2020年電子化政府展望;馬來西亞電子化政府;電子採購。
- 四、 2月15日相關報告內容有:巴林電子化政府開放標準;從電子化政府到行動政府;新加坡電子化政府;安全、 簡單、整合的電子化政府資通訊應用;埃及電子化政府; 台灣電子化政府。
- 五、 行政院研考會林副處長報告內容如附件。

## 参、心得建議

掌握國際電子化政府會議邀請機會,出席報告我國電子化政府發展情形,有助於我國電子化政府國際能見度提升,促進 與各國之經驗交流,爾後應加強推動。

## 肆、附錄:

## 一、 會議議程







# Conference programme

## MONDAY 13 FEBRUARY

Websites to the GOVTE, 2004 conference, the insequent bladde East e-government conference conference between the there is government or the Model East volume, new Interview and opportunities. GOVTE, is a packed, thought providing there day conference featuring intervalorable recognised experiment experts and excellent declaration of the application of CC in the government series and dealt with the broad range of issue, demands, opportunities and outsides conference experiment exists and dealt with the broad range of issue, demands, opportunities and outsides conference exists and outsides conference exists.

The importance and capital development of organization building and service in the region has been chosen by the region) and providing expanding and changing populations and constructed of the area. It is also by an agenda to reducing translation the delivery of public services through the employe of advantagement and constructions technology (ICT) to make the whole process of government more effective and efficient.

The conference has been split into three specific streams with detailed absolution within each those taking place on each day of the event, constru

- building the rest-generation o-government; critical sessors factors
   e-government; plobal perspectives and best practice
   e-government in the Middle East; echiconments and prospects.

### failiding the seat-generation e-government: utilitial success factors

The opening day of the conferency because of these contrapt, developed a e-government in course, planning and replanmentation. On the contract that course is the property of the course of the conference of the course of the contract that course is the contract that course of the contract that course is the course of the co

0.00	Augustion
09:20	Operang address H.E. Shallo Abreed bin Alegyaballah Al Khalla, Microso of Some for Colomo Africa and Head of the Consol Information Departments, Hingdom of Abrees.
00.00	Welcome message All Parameters: User Research Court and Alma (1989), Millionian Conjusters.
09.45	Wif preview of exhibition and receiving cuffee
10.25	Charmon's opening comments Or Costs Surges, Provided (Interior, Natio Schmidge matters, USA
19.39	Keywate address: Mind the gap - the e-government residation in the Arab world.  In term Moons, set often by visco on the progress of viscolaries, government adoption, in the Arab world. He will out visible in budging the gap between assentiation and delivery set studes and valid present to ment "verificingly theory" of government as one that he believe tool reflects the budget observed as one that he believe tool reflects the budget observed as the progress. The Characters to continue or the expension of the sequence of
11.00	Project assessment (inventors and benchmarking tools for a government)  In Challes before and project a comprehensive process of the project accounted benchmark and benchmarking tools for a government promets. Or believe will do so not be considerable depolerable and ordered benchmark and ordered benchmark and ordered benchmark and ordered benchmarked by Christian and Automatical Security (in the Christian Automatical Benchmark). Despite the Christian and Automatical Benchmark.  Description destinate, when of relaxed Automatical Report Management Securities, Eventual to substantial Benchmarks.
11.00	The read for secure identity management  Chris Hadden, Storage Considers and Preci J. Precisions: Other of the Depuis Stora Mining: Quant Regions About to)
13:00	Mark flow authoristics in government.  Serving Chalcollarity, the Possion and their Older Scientific Related Sings, Sale Completely Servin SM
12:30	Making pertnership work the future of PPF in a government. This presentation nell other an reviewe of the Orland Section Embed in creating according performance that gridges and public sections by the series of a veriety of a year report services and substance.  Taken Personal Commission of Future (trougs, Married) Godf.
13:00	Chairman's closing remarks, networking banch and close of day one
19.38	Gala diseas reception, Gall Hotel



### a-government: global purspectives and best practice

The second day of the centerative highlights the experiences of Asian and European governments. The day will begin with an impring beyonde address by the Costs Temper on the subject of alone boundary leadering, when is a concept developed by him and one that is houghly relevant to mark his order possessment department. Install to much independently, dayant from this processor of the day will find not proceed by the second are recording or the day of the delivered by Policy and the edge of the control of the delivered by Policy and the edge of the control of the order of the public sector believed by a paper from UNICHAD and DECL As review of the shadened on the Europe Trakes Not been published of the Dasset Refundagian installate. These bed processes a cludies in the animal or enter of employment architecture, using a nation's competitiveness and a processor of the Orien between the government of the Characteristic of the Dasset Refundagian installate.

#### 98.25 Chairman's opening comments

In Seven Mouse, 16x Chartan of the Commerce Relnadog Faces and Navagory Decid Development Research, 19

Expects address: bining information and communications technologies (KC) to bring information typowersent practice.

In funges will cultim how KC cut bit to the fluid repeate the and reprove harmachine. It can help factor, two organisations from all government and less employed a color-mannional term of because obtaining the parameter. It can help factor, two organisations from all government and white the constitution of the support of the constitution of the support of the constitution of the consti

- Dr Crette Faregas, President Errentus, Public Socknobigs essibute, 1044

#### 00100 e-governoused and largered: a look into government IT adoption totals.

this percentation and highlight the latest if secrets and contained the histopean and MEA (possessions) and lates. The magnitude of 19 speciety and social presents will be the daught for a decay took also if solution presents and test (1 consumption receible, SCC will present highlights, from the latest assumed an extending present and approximate to 10 latest and acceptance of an execution of the next past, at well as despite what governments are doing to optimize

## Mally van Haerder, fragsonina Managor to IT Sonicas and Norwals, ICC Maldo Gar & Africa, UAE

Governments as rule models for ICT adoptions exponentment or a tool for competitiveness.

ricks

11:00

12:00

Person Problem Dental of the Sensing Infrastructure for Development and Seas Officerry Densey, 104CTAS, Instantional

#### 19.00 generated for letter government

DECE country experience shows that the implementation of ET inclineration and particularly the use of the interest as a delivery channel for several is in reportant means for changing what generative is and how they do it. DECE countries have described five areas for achieving expressed governor.

- and forcing in government making obstorm server many requirements the tends of observant businesses
   multi-channel server improving their between highlighed executives server in order to province server remediate and accurate server in the contract of the contr
- Fe business our be registerant receiving and developed the costs and brainly of C.I. austrance or once to provide and better manager
- Include control or confusion; in region; a whole of government perspective to organizement initiative, and their management, while taking into account control or c

#### 16.50 Exhibition and enemegatelise

## a-gavernment challenger: Sooking forecast to 2020 – a European perspective

- Where are we need in a government and where are we haveled?
   what do we seem a government in the and to do by JDDD?
- \* organization, challenge, and those

Jersey Millard. Series Cossultant, Cares for Competence, Analosis and It Conich Subschapped Analose, Develop,

## Case study. Architecting the customer-contric gaseronees—the experience of instant

The proceedant will review the role and calculation of technology or an model of transformation in the ecological algorithms of ingressives in trained. The po-yell review the phologype of collaboration, and transportability action complete formal station advisor the computed collision constitution and collision constitution and public appropriate process and public appropriate point appropriate process and public appropriate point and public appropriate points. Eight Bullet. Director of information Directly Parky, Department of the Section Physic Interior Indian

Gave study: responsed governorses for efficient delivery of government services - the Mulaysian experience
in the paper to tend and multiur the distinguit engineed by the Mulaysian organization to disting a visit range of amount. The appricant has desired from the delivery sharings will be calclased and encounter it fitted expensives as wall as at mension of the insure learned. Facure places of deciral delivery in Mulaysia.

Dr Muhammari Chayle Sin tenarii Janus son Assains, Soon-Econosis Chrokymen (Secur, Alutimaria Chrokymen Copositios, Malajaia

#### 12:30 Delicering cost seeings and efficient government through e-procurement.

- instruct connection (cost)
   inspected precharacteristics partition to pay some to-pay some
   automobility appetent partition to-pay some
   instruction of inspected baging

- spicyclist in Common is insuremental language, over my horge, sector, collowers only one no program specifie in mappy sector processor.
   specified of the Johns

for Milan, Paparene Destry of Intereses Scotters, Newton and Destry Senior Separates, Scotta September, Sonial

13:00 Chairman's cleaning remarks, settomorking lanch and slove of day two



### e-government in the Middle East; achievements and prospects

The Stud day of the contentions will present both international and regional experience and perspectives on expourament. The featured case studies all best presentations from sense expourament exponentiations from Studies and Studies are studies as a Claim agencial feature in a Power Table panel discussion, which brought representations representations of a generalized to discuss an action agencial feature of Middle Eaders a glosenomers.

#### Chairmen's opening comments. 88:25

#### 18,70

Case study: Suiting a government on open standards: the Sahnah experience
In the presentation for M. Americal author the experiences of the Cardial Information Dispression in Bulliant in the experiences of an exsolution band on Spen-standard. The paper will suit in tow at effective information before body interesting the standards was
government features goal and objective.

Michael A. Al Agent Director Director Debuggion Refrontage Control Education Departments, Nagability of Advisor

### Case study: The transition from a-government to migovernment

- tophong trades government retail ins.
   staturing the application shall benefit of workers technology
   what are the challenges winn deposing mobile and wholes technologies?
   staturing are 7% strategy with an earling of deployer.

### Salve Khanii, Al Shair, Sirects of Sentin, Data's processes, UKS

### Cose study: The Singaporesis a government experience 09.32

 For provinging, Ne Typ will notice the projection and development of Singapore appropriate. He will conside the support and consideration and development of Singapore in grant meet adulting out and as the challenger, philate and the significant benefits a support of the significant benefits as support of the significant benefits a support of the significant benefits as support of the significant benefits. Many Saw Ter. Deputy Desity, a government Pallins and Programmer Desitor, Government Chaff Information (Office, Information Desity Health Facility).

#### Cone study: The role of a-government in raising a nation's competitiveness - the Malaysian experience 19:00

- gittal terula toward: Size retrick e-guarenteer
   Malayler e-government organizate gust and prosent
   towards toment rated Malayler's competitiveness
   Issuemi lawraff and false (bestigment).

Abbased Schains Mohamed Sabit: Chief Security Office; AffiC Security: Street Sab Shift (ASSCR); Addison

#### 18:30 Exhibition and reunning roffse

11:00

#### Sesse, simplify and unity the rearegement of IT for e-government 11:00

Maria Mediestesa, Consulting Director, Computer Associates, Middle Dat and Africa.

### Case study: Egyptian e-greenment - et/exandria-

Case shally figgether in government - infloranchia in the following partyper from the following processor from the following partyper from the following processor from the following partyper from the following partyper from the following and the following partyper from the following the following partyper from the following partyper following the following partyper following the following following the following following the following following following the following foll

- multi guitable estiquetiscie.

Dr Habert Filladt, Programme Director - Littal Genement Highermatics Programme, Administrate for Administrate Development, Egypt

#### Case study: a government in Toissan - status and relevant experiences 12:00

- regressment reading and plans
   regre organisms (propers
   development of planed services
   lessons learned and surface)

Michael No chart Life, Deputy Grecks; Deputy exist of Internation Management, Resident Amelianisms and Fallactic Committee. The Executive Name

#### 12:30 The Middle East e-government Power Table

- What become par Adulty Eartern is prevenuent from their global counterparts?

  What are the lay bean and from it is Middle Earlern in government?

  I have prevenue government agreement begreten work to develop an efficient counter of a government that part them in the top lengue?

#### Chairman's closing remarks, notworking lunch and store of conference 13:00

## 12 Speaker biographies





## Michael Yu-druan Lin Deputy Director, Department of Information Management, Research Devalopment and Evaluation Commission, The Executive Year,

Michael Yu-chain Lin is the Deputy Director of the Microston Malagerers Department under the Research, Development and Evaluation Commission (RDEC), WDEC is a renotheral opening

playing and the express to the property of a province agency playing and the express to Toman. Since Motive stated to work to appear to 1990, he has been eligible in a samely of e-preservent peacht. Some major projects to which he has combinated.

- planned and promoted the first and second phase in government programmes (1998-2004)
   established a government interest backlaine national-GSV.
- which has offered government wide internet services once 1997.
- developed e-government garaway spitems, which have provide cool-agency information excluding services since 1999.
   provided electronic official discurrent exchange.
   half a system to available government, well sites armady since
- 7995
- In an attempt to ofevers the digital divide, Michael Nes provided the establishment of selecement in rural areas since 1000
- · assessed the status of information systems development and evaluated the regor information systems plant of government agent/inc
- streekaged an e-government Common Retirem and promoted shared services.

Stated services in addition, in International conjugation in the field of digital divide and e-payment international conjugation. In September 2001, he forshed the implicit entition of an APEC behaves Program, which was an 18-month propert arming to bridge the digital divide in APEC region.

## 二、 行政院研考會林副處長報告內容

# e-Government in Taiwan: Status and Relevant Experiences (Slides Transcript)

Michael Yu-Chuan Lin yuchuan@rdec.gov.tw

Deputy Director, Department of Information Management Research, Development, and Evaluation Commission Executive Yuan, Taiwan

## Slide 3: About Taiwan

Taiwan is located in Eastern Asia at 23°30'N, 121°00'E, the main island of Taiwan, totaling to nearly 35,980 sq. km, is the largest land between Japan and the Philippines in the west side of the Pacific Ocean, with the Taiwan Strait separating it from mainland China, about 220 km at its widest point. The climate is subtropical while 24 percent of the land area is arable, with the eastern two-thirds of the land being mostly rugged forest mountains, sharply sloped to gently rolling rich alluvial plains in the west where communities, farming activities, and industries are concentrated. As for demographics, the population totaled 22.7 million as of December 2004; median age: 33.7 years; life expectancy: 77 years; literacy rate: 96.1 percent; and major languages: Mandarin (official), Taiwanese, and Hakka.

Turning to government structure, the Taiwanese government is a multiparty democratic regime headed by a popularly-elected president and unicameral legislature (the Legislative Yuan). The Executive Yuan (a.k.a. the Cabinet) is the executive branch headed by the Premier, appointed by the President based on recommendations. The capital is Taipei City.

Taiwan is a modern industrialized megalopolis clinging to the fringes of an ancient culture. It is one of East Asia's four tiger economies due to its industrial strength and economic prosperity, characterized by a dynamic capitalist economy, coupled with gradually decreasing government guidance for investment and foreign trade. Taiwan is famous for dominating world market shares of computer products and electrical equipment. In 2004, the economy grew at a rate of 4.1 percent in addition to a per capita GDP of USD14,032 in the same year.

## Slide 6: e-Government Implementation Mechanism

Taiwan's central government consists of the Office of the President, and five branches (called "yuans"). The Executive Yuan is the highest level executive authority. Under the Executive Yuan, the Research, Development and Evaluation Commission (RDEC) is a ministerial agency responsible for e-government policy. The Information

Management Department under the RDEC is responsible for e-government related affairs, including overall planning, program and budget review, and coordination among government agencies. In addition, the National Information and Communication Initiative Committee (NICI) is a task force. It mainly coordinates among e-government, e-industry and e-infrastructure. In other words, the NICI plays the role of a CIO office in the government. A minister chairs it, which consists of deputy heads of major ministries and commissions. Under the NICI, several steering groups (SG) are established as well, such as e-government SG, infrastructure SG, standardization SG, etc.

## Slide 7: e-Government Action Plan (1998~2000)

To promote the widespread development of ICT applications, Taiwan established the NII Task Force in 1994. Then in 1997, the *NII Promotion Program* (1997 ~ 2001) was established for NII related strategies, measures, and implementation schedules. In 1998, the Research, Development and Evaluation Commission (RDEC) launched a three-year *e-Government Action Plan*, which highlighted the focus on Internet application development and relevant infrastructure establishment in government. There were ten major subprojects under this e-government plan, as illustrated here. Under such a Plan, some subprojects were successful, while some were not. Those successful subprojects include,

- ➤ Building a government Internet backbone—named as Government Service Network (GSN), which adopted a most cost effective way and dramatically finished the promotion for connecting all government agencies onto Internet in four years;
- Establishing a Government CA to provide network identification services for a variety of e-government online services;
- Developing several important killer applications such as e-procurement, e-official document exchange, online tax filing, online motor vehicle service, etc.;
- Developing a gateway system to promote information/data dissemination and sharing among government agencies.

Contrast to the success of above mentioned subprojects, the Integrated Smart IC Card Project was unfortunately not successful. This project tried to adopt a BOT model letting the contractor run a business/service both for national identification system and national health insurance system. Through such a project, two different cards—national identification card and national health insurance card were supposed to be integrated into one smart IC card. Eventually, due to the concern of privacy from civil society, the project was unlimitedly postponed. Instead, the government allotted NT\$4 billion—US\$120 million to implement an IC card project solely for national health insurance since 2002.

## Slide 8: e-Government Program (2001~2004)

To continue the ongoing implementation of e-government work, the government enacted an Electronic Government Program in April 2001 (2001 to 2004). Based on the foundation laid by the previous three-year e-Government Action Plan, the new four-year Program was able to proceed onto a larger scale fulfillment of e-government. There were total 132 measures implemented under the Program, which are illustrated as the diagram here.

Accompanying with a larger scale of implementation, in its first two year, the new e-government Program encountered with the difficulty to get sufficient budgeting support. To solve the problem, the government eventually established a new funding mechanism, which shared the budget originally allocated for public construction. From 2003 to 2007, the government allots NT\$3 billion—US\$85 million for the implementation of e-Government Program each year.

## Slide 9: e-Taiwan Program

While reviewing and evaluating the implementation of the Program, the RDEC addressed a problem that the majority of efforts were located on infrastructure, MIS, OA, and online service development, in the diagram of framework of measures above. Meanwhile, the efforts on cross agency information sharing/dissemination, policy planning and decision support were comparably low. To solve the problem and improve such situation, under an *e-Taiwan Project* and coordinating with other ministries, the RDEC launched several important innovative projects that focused the development of cross agency information sharing/dissemination and policy planning support. The most fundamental and important one is the project named *e-Government Common Platform*. Accompanying this project, a variety of cluster services have been under development.

## Slide 11: Government Service Network (GSN)

The Government Service Network (GSN) has been developed to link all government organizations/agencies. It is an Internet service provider dedicated for governmental usage. The RDEC is responsible for GSN's annual budget, and it was outsourced for operation and services. The establishment of GSN is a very successful strategy for e-government development in Taiwan. GSN not only effectively lowers down Internet usage threshold to speed up the progress of Internet application promotion but also provides high quality Internet services for government agencies. Since 2001, all government organizations, including local governments, have been connected to the Internet. The GSN provides very high bandwidth Internet services that enable government agencies to conveniently develop and use a variety of e-government multimedia applications on it, including videoconferences and VOIP.

Due to the unified and centralized implementation method, compared to using ordinary commercial ISP services, the cost savings from GSN is tremendous, around USD 35 million a year.

## Slide 12: E-Government PKI

The Government Root Certification Authority (GRCA) is designed as the single trust anchor for all CAs. It certifies the lower set of subordinate CAs. According to the government's different administrative functions, there are five different CAs under the GRCA. First, the Ministry of the Interior (MOI) established a MOICA for citizen certificate services. Second, the Ministry of Economic Affairs (MOEA) established the MOEACA for business and company certificate services. Third, the Research, Development and Evaluation Commission (RDEC) established three CAs, including a GCA for government agencies, a XCA for non-government organizations, and a TestCA for PKI related applications development. These CAs provide public key certification services needed in various types of application procedures.

## Slide 13: E-Government Killer Application-- Official Document Exchange

The electronic exchange of official documents began on a trial basis in July 2000, and today all government agencies, including local governments, have implemented electronic official document exchange. The promotion of electronic official document exchange has raised the widespread use of groupware applications in government. This step has not only drastically reduced document transmission time and raised the level of office automation; it was also regarded as a very important e-government killer application which effectively enhanced the information literacy inside government. As of November 2005, 78% and 63% of official documents were exchanged electronically in the central and local governments, respectively. According to statistics from the RDEC, about 100 thousand documents every day are exchanged electronically, a total reduction in annual postage costs of around USD 3.5 million.

## Slide 14: e-Government Online Services-- The Case of e-Tax Filing

The government has developed an online tax filing service to provide businesses and individuals faster and better tax services. (<a href="http://www.itax.com.tw/">http://www.itax.com.tw/</a>) Such a service was launched in 1998, accompanied by the establishment of the Government Certification Authority. The progress of online tax filing promotion was slow in the first five years. In 2003, in addition to using electronic certificates, the government alternatively allowed taxpayers to use their national ID numbers and household registration codes to file their income tax online. However, downloading personal income data is not allowed without using electronic certificate. This change brought

about a big breakthrough in online tax filing as illustrated in the diagram below, and revealed the difficulties in the promotion of PKI. In 2005, 34.59 percent of taxpayers filed income tax via the Internet, with 13.85 percent of them using electronic certificates. In 2005, the cost saving for taxation agencies and taxpayers is around USD 15 million.

## Slide 15: Citizens' Perspective

The gap between the Internet penetration rate in Taiwan, 64.78%, and online e-government services utilization rate, 23.9%, shows that the government needs to continue marketing e-government online services or to develop much better/valuable services to attract more users.

## **Slide 16: International Recognition**

In the surveys of e-government in 198 nations published by Brown University, Taiwan ranked first both in 2002, 2004 and 2005. In the Global Information Technology Report 2004-2005 published by the World Economic Forum, Taiwan ranked third in Government Readiness and fifth in Government Usage. The surveys by Brown University primarily assessed the service content and functionality of government websites. Taiwan was one of the few nations that use electronic certificates in e-government services.

## Slide 18: Gateway Systems

To lessen the need for redundant copies of official documents and to improve the efficiency of administrative procedures, in its first three-year e-government plan, the RDEC deployed a "Gateway System" to integrate interdepartmental information and simplify operating processes.

The gateway system has the disadvantage that it will bring up a messed connection environment when the number of joined parties grows, as the diagram illustrated below. Such situation definitely also causes the down of cost effectiveness of ICT investment.

## Slide 20: Integrated e-Government Service Framework

To improve the disadvantage of gateway system, the e-Government Common Platform plays as a single window dealing with a variety of requirement of information/data exchange from different parties, as the diagram shown here. The main objectives of the *e-Government Common Platform* are to provide a more cost effective way for cross agency information sharing/dissemination, and pave a good way for the development of innovative cluster services.

The Government Service Platform is used as a gateway to integrate and exchange needed information for the various agencies in order to provide innovative

one-stop service. This project plans to develop various innovative services which are classified into 12 categories: e-travel, e-business, e-care, e-health, e-employment, e-household, e-taxation, e-military service, e-housing, e-public safety, e-foreigner service, e-mainland policy service. Using the service platform, two pilot cluster services—*Business Registration Service* and *Travel Service*—were launched in 2004. By the end of 2005, four more innovative cluster services will be added: *Sightseeing Service*, *Medical Service*, *Household Registration* and *Government Employment Service*.

## Slide 22: The Roadmap for E-Government Common Platform

To develop each cluster service, a working group was formed and comprises representatives from different ministries/departments. The cluster services need to deal with not only information/data flow but also process integration/reengineering among government agencies. Beyond technology issue, the good communication and coordination among government agencies/departments during the development of cluster services are critical successful factors. Meanwhile, the impact on relevant regulations has been also seen.

### Slide 31: Barriers of e-Government

1. Legislative and regulatory issues

Through an Electronic Signature Law, Taiwan has enacted legislation on electronic identification and authentication. The Personal Information Protection Law has also enhanced privacy protection. However, the existing guidance helps more on providing technical "how to" support for ministries and agencies already engaged in new initiatives, but still helps less on providing many incentives or a "push" to launch initiatives.

2. Government IT professional and organization issues

Due to the good performance of IT professionals inside government, the e-government in Taiwan has made good progress in the past years. However, the establishment of a formal IT unit inside an agency has yet been a priority for government, which tells that most of IT units of ministries and commissions are still task forces. A disadvantage due to such situation is the aging IT professionals inside government. How to establish a mechanism with incentives that could recruit new IT professionals into government should be a priority for advance e-government.

## 3. Budgetary barriers

In Taiwan, a tight fiscal environment and a decentralized system of IT spending with central monitoring of resources characterize the budgetary context for e-government. Central one-time funds from e-Taiwan Program have been crucial

for developing electronic service delivery frameworks and may provide a model for setting up new incentive funds to foster innovation. An important challenge is the use of budgetary processes to enhance the availability of cross-agency funding in support of integrated online services.

## 4. Technological barriers

Technical issues regarding privacy and security, the need to account for rapid technological change, the lack of standards and internal integration have all been recognized as important challenges for ministries and agencies. Taiwan has established an e-Government Service Platform, which adopts new technologies, such as XML and web services, for developing cross-agency information and service integration. To enable ministries and agencies to use this common system, the government needs to plans to promote accompanying services.

## 5. The digital divide

Although Taiwan is doing well in terms of providing access to Internet, access to and possession of information technology still differ markedly across generations, family types and regions in Taiwan. E-government needs to deliver its services across the digital divide that its performance and benefit could be further raised.

### Slide 33: e-Gov Partners with Business

## 1. Spreading risk

Due to the very rapid development of ICT, e-government needs continuous investments to renew its various information systems, which is expensive. It is difficult and risky for government to fulfill such a requirement by itself. Partnerships can bring in needed expertise and help to spread the risk of e-government-related initiatives.

## 2. Cost saving

Innovative partnerships can simplify administrative processes for both the administration and users at a relatively low start-up cost to the administration. In the *Government IT Outsourcing Guideline* of Taiwan, there are three different outsourcing models which bring cost saving.

3. Accelerating the development of e- government

The lack of budget and new ICT expertise used to slow down the development of e-government. Since government owns a lot of valuable raw data, many information systems could be developed with self-funded or cost shared through value adding by partnerships. This would effectively solve the budgetary problem and accelerate the development of e-government.

4. Fostering the growth of local ICT industry

Government's investments used to share an important part for the economic development. More government investments will bring more business opportunities.

When government investments are constrained by its budget, partnerships can effectively help to increase the investments, which will foster the growth of local ICT industry.

## Slide 34: Main Drivers of the Partnerships of e-Government and Business

- 1. Publics' demand for a better government
  - The development of Internet not only creates new opportunities but also brings challenges for e-government. The convenience that the publics enjoy from Internet causes their stronger demand for better services from government. To respond to the publics' demand, and to efficiently and effectively tackle the rapid development of ICT, government cannot succeed by itself without partnering with private sector.
- Policies create the environment
   Good leadership built in relevant ICT policies can effectively help to create a good
   environment for e-government and business partnerships, such as the outsourcing
   policy.
- 3. Business response changed policies and generate new opportunities
  Government's policies sometimes cannot reflect the rapid development of ICT. In
  Taiwan, the government used to take the suggestions and advice made by private
  sector to formulate relevant ICT policies. The private sector needs to play an active
  role keeping participating in policy making.

## Slide 35: Developed the Partnerships of e-Government and Business

- 1. Implementation of e-government programs through IT outsourcing Responding to the rapid ICT development, government agencies have adopted outsourcing strategy for e-government implementation. Instead of doing the system programming and maintenance by themselves, government IT personnel have shifted their works into managing their private sector contractors.
- 2. Established the *Government IT Outsourcing Guideline* (2002)

  The *Government IT Outsourcing Guideline* (2002) was established to enhance the promotion of government IT outsourcing. This Guideline raises its objectives for building a mechanism with incentives to encourage the private sector to participate in major e-government projects; accelerating the development of e-government; enhancing the improvement of administrative efficiency and effectiveness; helping to raise the level of local IT software industry and to promote the development of IT service industry. It clearly defines the scope of government IT outsourcing, as a mandatory requirement to government agencies. It also set outsourcing as a baseline, which urges government agencies should adopt outsourcing unless the private sector cannot provide such services or the outsourcing cannot provide better

performance. To ensure the success and quality of outsourcing, the Guideline also set some principles, such as rightsizing outsourcing; doing *Request for Information* (*RFI*) or *Request for Comment* (*RFC*) for the *Request for Proposal* (*RFP*); separating the bid into consultation, planning, implementation, and Independent Verification and Validation (IV&V); adopting software quality assurance, etc. The Guideline urges government agencies should refer five strategies for their IT outsourcing, as below:

- Adopt IT service procurement instead of hardware/software procurement
- Adopt service level requirement instead of hardware/software requirement
- Develop long-term partnership instead of one-time procurement relationship
- Focus the value instead of price
- Adopt total solution instead of partial problem solving

The Guideline also provides five IT outsourcing models as below for reference.

- Share-in-saving: The contractor shares the profit resulted from the cost saving of the implementation of information systems in government.
- Self-funded:
  - Government provides data to the contractor to build up IT services, and the contractor charges transaction fee.
  - Government licenses specific services to the contractor and charge the license fee.
- Self-funded-hybrid: The contractor build and provide the IT services with self-funded. Government helps the promotion and guarantees the minimum amount of usage.
- Operation outsourcing: Government builds the IT system, and contract out its management and maintenance. The contractor shares the revenue with government from the service.
- Application-service-provider (ASP): Traditional IT system development outsourcing.
- 3. Vast IT investments of E-Taiwan Program

The E-Taiwan Program invests NT\$ 6 billion (US\$ 180 million) a year since 2003, which has created more ICT business opportunities and build better partnerships with private sector.

## Slide 38: Challenges for e-Government

1. Vision and planning

Taiwan has formulated its e-government vision in relevant programs. However, the government has been less successful in effectively informing and mobilizing government employees around its central vision. The lack of wide ownership of the e-government vision has resulted in confusion at the agency level over their role

and the actions required to move forward the overall government agenda. Planning for e-government at the ministerial and organizational level needs be required, in order to increase the taking of responsibility and encouraging organizations' commitment to the e-government vision.

### 2. Online services

Taiwan was ranked first on its government website services in the global e-government surveys conducted by Brown University in 2002, 2004, and 2005, respectively. As of November 2005, more than 800 online transaction services have been provided. Rather than focusing the overall number of online services available, the government needs to focus more on service quality, relevance and access in its e-government program, although an e-Government Service Platform has been launched since October 2004.

## 3. E-Engagement

Improving online access to information and citizen consultation and participation in policy-making is an important dimension of e-government. According to a survey on citizens' usage of government websites in Taiwan, there were only 11% citizens who submitted feedback or comments via government websites in 2004. This represents that the government still need to make more efforts on the openness and citizen' participation in public affairs via Internet.

## 4. Back-office changes

In Taiwan, back office changes related to e-government have been slow to take place. Further cultural change in the administration is required to maximize e-government benefits. This includes the willingness to collaborate across agencies. The next stage of e-government implementation demands a broader, whole-of-government perspective in order to deliver seamless services. Enhancing leadership at all organizational levels is a priority for the development of e-government. In addition, ensuring co-ordination to promote cross-agency collaboration and managing public-private partnerships are also very important aspects of back-office changes related to e-government implementation.