

出國報告(出國類別：出席研討會)

2015 年國際資訊安全與加密技術研討 會議報告

服務機關：國家發展委員會檔案管理局

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派赴國家：日本

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摘 要

2015 年國際資訊安全與加密技術研討會議 (ICISC- International Conference on Information Security and Cryptology) 於本(104)年 5 月 28 日、29 日舉行，由 WASET (World Academy of Science Engineering and Technology) 主辦，會議地點安排於日本成田機場附近之東武飯店。議程公布於該研討會官網 (<https://www.waset.org/conference/2015/05/tokyo/ICISC>)，該研討會旨在匯集資訊安全和密碼學等相關學術領域的研究成果，提供跨學科論壇，進行意見交流和經驗分享，與會者包括研究人員、從業人員以及教育工作者，討論最新創新技術、趨勢、關注議題、面臨的實際挑戰，以及資訊安全與密碼學領域解決方案等等。

基於我國電子化政府推動成果，使得各機關、學校、公司行號、組織團體，莫不依賴公文電子交換系統進行公文書傳遞交換，以加速交換時效及提升行政效率，該系統業經行政院於 103 年列為國家關鍵基礎設施資訊系統之一。由於資訊科技發展迅速，駭客攻擊行為變本加厲，處於敵暗我明之際，除了加強防禦措施，更應參與國際相關事務，以瞭解相關領域之研究發展，汲取經驗與知識，以提升本局整體資訊安全的防護能量。

第一章 前言

配合行政院組織改造，國家發展委員會檔案管理局(以下簡稱本局)新增職掌，負責全國公文電子交換系統推動業務，另依行政院 103 年 12 月 31 日院臺安字第 1030158383 號函示，將公文電子交換系統(以下簡稱本系統)列為國家關鍵基礎設施之一，為確保本系統資料及傳輸安全，國家安全局奉示協助本局導入相關加解密機制。又於機關推動公文上簽核作業之際，除要求公文時效及節紙效益之外，更須兼顧上簽核公文之完整性、可用性、鑑別性與不可否認性，完備的金鑰基礎建設(Public-Key Infrastructure, PKI) 有助提供線上加解密及身分鑑別技術。經由參與國際相關研討會，可汲取最新的資訊安全技術、應用及發展方向，有助於擴展本局同仁的國際視野，俾應用於資訊安全業務。

第二章 研討會及參訪行程

本次行程含括參加研討會、參訪日本國立公文書館及路程共計 5 日(如表 1)。

表 1 研討會及參訪行程表

日期	行程內容	所在地點	住宿地點
104/5/26(二)	啟程(臺北至東京)	臺北	東京
104/5/27(三)	1. 資料蒐集 2. 參訪日本國立公文書館 (National Archives of Japan)	東京	東京
104/5/28(四)~5/29(五)	報到、出席會議	東京	東京
104/5/30(六)	回程	東京	臺北

第三章 研討會重點

本次研討會的主題依據主辦單位 WASET 官網公布資訊，係包括存取控制與稽核 (Access Control & Audit)、生物識別技術 (Biometrics)、雲端計算安全 (Cloud Computing Security)、密碼分析 (Cryptanalysis)、數位取證 (Digital Forensics)、分散式系統安全 (Distributed Systems Security)、電子商務 (Electronic Commerce)、同態加密 (Homomorphic Encryption)、個人身分為基礎的密碼系統 (ID-based Cryptography)、入侵偵測和預防 (Intrusion Detection and Prevention)、行動安全 (Mobile Security)、公開金鑰加密系統 (Public Key Cryptography)、安全管理 (Security Management)、旁路攻擊和防禦 (Side Channel Attacks and Countermeasures)、社會網絡安全 (Social Network Security)、身分驗證和授權 (Authentication and Authorization)、資料區段加密法和資料流加密法 (Block and Stream Ciphers)、版權保護 (Copyright Protection)、加密協議 (Cryptographic Protocol)、數位簽章 (Digital Signature)、有效建置 (Efficient Implementation)、雜湊函數 (Hash Function)、身分管理 (Identity Management)、資訊隱藏 (Information Hiding)、金鑰管理 (Key Management)、隱私強化 (Privacy Enhancement)、多方計算安全 (Secure Multiparty Computation)、安全政策 (Security Policy)、智慧型設施安全 (Smart Device Security) 及軟體安全 (Software Security) 等。

赴研討會現場得知本研討會實為跨多個學術領域的研討會，其涵蓋面極為廣泛，並不侷限於資訊安全及密碼學領域，尚包括教育發展、物理力學、公共衛生、健康照護、地理地質、天災地震海嘯、組織領導與角色、任務績效、組織管理、文化資產、政經旅遊、金融危機、證券交易及電子商務等等林林總總的議題，計有 354 篇的學術論文發表，其中 1 篇為專題演講，253 篇口頭發表 (15 分鐘)，100 篇壁報發表；二天的會議，每天都是分 3 個廳同時進行 (議程如表 2)，可能是礙於場地之限，大會將壁報發表調整為 5 分鐘的口頭發表，因此，許多的壁報發表者皆缺席，而現場並無論文以壁報形式發表，會場實際發表篇數共計 175 篇 (部分作者發表 2 篇論文)。根據大會的簽到紀錄，本次研討會參與者共計有 173 人次。

表 2 研討會議程表

廳別	A 廳	B 廳	C 廳
日期	2015 年 5 月 28 日		
第 1 節時間	8:00~10:20	8:00~10:00	8:00~10:15
主持人	Isaac Gbadura Adanlawo, Asiha Muhammad Gadanya	Tung Liang Liao, Mei-Chu Ke, Chiung-Yao Huang	Sunantha Teyarachakul, Alan Lin
論文篇數	17	11	10
第 2 節時間	10:35~13:30	10:15~13:30	10:30~13:30
主持人	Md Kamal Uddin, Ni Yang	Zaimal Abu Zarim, A.K.M. Ahasanul Haque	Md Mizanur Rahman, Rong Liu
論文篇數	17	16	17
日期	2015 年 5 月 29 日		
第 1 節時間	8:00~10:30	8:00~10:30	8:00~10:00
主持人	Chien Chon Chen, Yi-Feng Lin	Gu Pang, Tai Mei Kin	Chun-Chuan Yang, Vadim Vagin
論文篇數	14	12	10
第 2 節時間	10:45~13:30	10:45~13:30	10:15~13:30
主持人	Ruichong Zhang, Ashok Tejankar	Celia Barreto Carvalho, Sung-Chun Tsai	Ahmad Termini, Mohd Md Noorani
論文篇數	13	19	19

茲將本次研討會與資訊系統、資訊安全、密碼學等相關論文，摘述如下：

一、以雲端為基礎的企業資源規劃系統效能分析研究

A Performance Analysis Study for Cloud Based ERP Systems

製造業和服務機構都須要使用企業資源規劃(Enterprise Resource

Planning, ERP)系統整合許多業務功能，如：從採購到倉儲、生產計畫到成本計算等。使用資訊整合的 ERP 系統，可以看到公司在盈利能力、生產力和效率方面的顯著優勢。在資通訊科技方面雲端運算是最顯著的變化之一。雲端運算的發展優勢，正吸引著商業界的青睞。雲端運算意謂著更大的儲存區域、更節省成本和更快的資料傳輸速率。除此，透過各種效能標準以檢驗分析雲端環境 ERP 系統效能，比較傳統的和雲端的 ERP 系統之間的差異，可以發現許多新的商業模式、新的研究領域和實務上可行的解決方案，未來仍可持續探討 ERP 系統的改造工程。

二、以蟻群優化演算法建構評估軟體

Software Assessment Using Ant Colony Optimization Algorithm

近年來，於看到軟體產業機構蓬勃發展之時，軟體品質問題亦已成為產業界的重要課題。因為，許多的機構都無法保證其產品的品質，因此，留給使用者許多的不確定性。確保品質做法之一，就是進行軟體驗證，意指品質的量測必需於軟體完成製作發版前進行驗證。透過軟體模型和產品驗證的品質保證策略，以解決軟體評估的問題，理想模式就是要改善緊湊度和模型的模糊規則，經由蟻群優化演算法 (Ant Colony Optimization, ACO)¹之使用，可以試圖從傳統單一規則的詮釋，找到良好的組合規則。以案例研究測試，結果說明了該模型在真實環境之可行性和實用性。

三、用以發掘 IPv6 芳鄰設備之輕量加密定址模式

Lightweight Cryptographically Generated Address for IPv6 Neighbor Discovery

受限於第 4 版網際網路協議 (IPv4) 的功能，有必要開發下一代的網際網路協議 (IPng) 以面對新的挑戰。IPng 也稱為第 6 版網際網路協議 (IPv6)，其係應用發掘芳鄰協議 (Neighbor Discovery Protocol, NDP) 執行地址自動配置、發掘路由器 (Router Discovery, RD) 和發掘芳鄰 (Neighbor Discovery, ND)。此外，NDP 也扮演重定向服務的角色，以檢測重複的地址，並檢測無法完成的

¹ 蟻群優化演算法：於 1992 年由 Marco Dorigo 提出，意指模仿螞蟻覓食行為的演算法，螞蟻覓食時，會沿途分泌留下特殊的賀爾蒙，以告訴其他螞蟻循著該路徑前往搬運食物。也有螞蟻會另闢新路，而找到更簡潔的路線。然該賀爾蒙會隨時間的經過而蒸發，為免路徑中斷，其他螞蟻循該路徑回巢時，會繼續分泌賀爾蒙補強之。因此，該賀爾蒙成為良好的食物指標，讓螞蟻齊心協力搬回食物。螞蟻演算法就是把好的組合規則比擬成螞蟻覓食的路徑，並不斷地局部調整組合規則，使之達到最佳組合規則。

服務。儘管假設 NDP 存在聯繫信任的節點，但有些關鍵的攻擊可能會影響協議。因此，網際網路工程團隊 (Internet Engineering Task Force, IETF) 建議確認可靠的發掘芳鄰協議 (Secure Neighbor Discovery Protocol, SEND) 以解決 NDP 的安全問題。SEND 主要用於驗證地址的權利、惡意反應的抑制技術及最終路由器的認證程序。有關這些任務的常態運作，SEND 採用了加密定址 (Cryptographically Generated Address, CGA)、RSA 簽章和時間戳記 (Timestamp) 等選項，惟 CGA 最大的缺點就是可能會產生額外的高成本。

四、應用協同式日誌基礎即時偵測應用層阻斷服務攻擊之入侵偵測系統

Real Time Detection of Application Layer DDoS Attack Using Log Based Collaborative Intrusion Detection System

近年來，網路和重要基礎設施的攻擊暴行不斷地上演與持續進行中。由於易於以低價獲取大量的殭屍網路電腦和普遍缺乏防禦作為，致使分散式拒絕服務 (Distributed Denial of Service, DDoS) 是最普遍且最容易的攻擊行為。應用層 DDoS 攻擊為 DDoS 的攻擊模式之一，其攻擊目標為網站伺服器 (Web Server)、應用系統伺服器 (Application Server) 或資料庫伺服器 (Database Server)，這類型攻擊更具複雜和挑戰性，因為他們會設法避開大多數傳統的網路安全設備，往往會將攻擊流量偽冒成正常流量，使得網路層無法偵測出異常現象。在面對複雜和多面且同步的攻擊，安全系統的慣用技術漸漸缺乏有效性。對網路設備公司而言，至關重要的就是要保護免於攻擊和入侵。為了克服這些議題，而提出了協同入侵偵測系統 (Collaborative Intrusion Detection System, CIDS)，當單一設備不足以偵測本身的惡意威脅時，就需要多重網路設備共享有價值的資訊，以辨識外來的攻擊行為，因此，CIDS 有助於分析來自不同來源的蒐集資訊，並採取應有的決定。這種新穎的攻擊偵測技術有助於偵測關鍵基礎設施的可用性，並提出解決方案，應可於事件發生初期讓相關團隊偵測到 DDoS 攻擊，並對攻擊採取反應對策，以確保服務的正常運行而不受影響。實驗評估顯示，該協同偵測方法比以前的單兵作戰方法更為有效率。

五、混合雲機密資源的新安全措施

New Security Approach of Confidential Resources in Hybrid Clouds

現今，公司變得愈來愈需要雲環境，這種新技術提供了在任何地方、任何

時間都可存取資料的機會，為資源優化和安全存取，給予儲存在平台中的資料更具安全性，有些企業不信任雲服務供應商(Cloud Providers)，在他們的觀點，認為雲服務供應商可以存取和修改其機密資料，如：銀行帳戶。雲服務供應商也意識到了這些狀況，因此採用加密方法確保資料的機密性，旨在加強供應商的服務品質及提高客戶的信任。

六、網路實體系統的防偽挑戰

Challenges in Anti-Counterfeiting of Cyber-Physical Systems

本文分析在網路實體系統(Cyber Physical Systems, CPS)的保護，CPS 是一種結合電腦運算、感測器和趨動器裝置的整合控制系統，其主要特徵意味著網際網路系統元件(components)，可以適應使用者和其環境的需要。CPS 具備了保護對抗反偽冒、技術訣竅損失及操作等全新、特定的需求，因為盜版攻擊更加多樣化，系統保護的要求就更高了，例如：首先，必須先辨識越來越多的介面或穿越網際網路的能力，下一步則是要符應現有的保護措施。由於發現新的保護措施發展有差距，必須強迫縮小差距。本文對介於選擇措施瞭解和最初結果呈現之間，都已獲得有效性的比較。

七、網路恐怖主義對國家安全潛在威脅之理論框架

The Potential Threat of Cyberterrorism to the National Security: Theoretical Framework

電腦和網路革命可能出現革命性的恐怖主義，同樣地也帶來了生活上的各項改變。於現代化的科技時代，每個國家都面臨著一系列新的安全挑戰，因為許多國家和潛在對手都有能力和潛力，發動網路攻擊。有些正在部署監視、蒐集、分析技術資訊，以及繪製對手的網路、節點及基礎設施，而這些都可能運用在未來的攻擊衝突之中。為了瞭解網路恐怖威脅，透過定量研究（調查）結果驗證理論框架的有效性。此理論框架有助於深入瞭解新的數位恐怖威脅；對於關鍵基礎設施的管理者及技術人員可能是一份實用指引，藉以瞭解和評估所面臨的威脅；也可能是建立國家策略以應對網路恐怖主義的基礎。首先，本研究提供相關資料的基本資訊，再進行資料清理、可靠性分析、探索性因素分析(Exploratory Factor Analysis, EFA)及驗證性因素分析(Confirmatory Factor Analysis, CFA)，再以結構方程模式(Structural Equation Modelling,

SEM) 檢驗理論模型，並評估該模型和所蒐集資料集之間的整體適配度。

八、電子護照身分驗證協議的 BAN 邏輯驗證

BAN Logic Proof of E-passport Authentication Protocol E-Passport

電子護照是一個相對較新的電子文件，它保持了護照功能，並提供更好的安全性。它部署了新的技術，如：生物識別和射頻識別 (Radio Frequency Identification, RFID)。國際民用航空組織 (The International Civil Aviation Organization, ICAO) 和歐洲聯盟定義的機制和協議，以提供安全，惟其解決方案仍存有許多威脅。在本文中，提出一個新的機制，以強化電子護照的安全性和認證過程。這個新的協議是以橢圓曲線、身分加密和實體之間秘密共享為基礎。在驗證方面的貢獻就是以 BAN 邏輯(BAN-Logic)驗證持有電子護照者和服務提供者在通訊過程中，達成鑑別效果及所建立交談金鑰(session key)的正確性，以提供一個更安全的資料儲存和認證機制。

九、物聯網虛擬平台事件資訊系統設計

Design of Incident Information System in IoT Virtualization Platform

以事件資訊系統為基礎而提出的物聯網(Internet of Things, IoT)虛擬化平台(Virtualization Platform)，是為了蒐集 IoT 資訊環境的各式資料而開發的平台，優點是在管理區域易於散佈 IoT 設備和便於分析從各地收集而得的資料；此外，也提供感測資料的事件資訊，並提供相同的輸入/輸出介面，如：UNIX 和 Linux 搭配於 IoT 設備的檔案系統目錄。因此，不僅可以應用在事件資訊，也可應用於不同的平台。本文提出的事件資訊系統，就是要即時識別緊急事項及提供各種可視覺化的資料。

十、公共網站使用數位資料新的資訊隱藏方法

A New Authenticable Steganographic Method via the Use of Numeric Data on Public Websites

經由公共網站數位資料之使用，提出一個具有自我鑑別能力的全新的資訊隱藏(Steganographic²)方法，此項技術是根據Shamir提出的秘密分享系統

²Steganographic 是由 steganos 和 graphein 兩個希臘字根組合而成，steganos 字義為遮蔽、隱藏 (covered)，graphein 則是 to write 兩個字合併，意指隱藏所寫的字。而密碼學之 Cryptography 亦由 Crypto 和 graphy 二個希臘字組成。Crypto 的希臘字義是 secret。因此，Steganography 的意義近似於 Cryptography。Cryptography 是隱藏訊息(message)的意義(meaning)，使他人看不懂涵意；而 Steganography 則是隱藏訊息本身的存在性(existence)，讓人完全不知有訊息的存在。

(Secret Sharing Scheme)，將秘密訊息轉換成部分分享(Partial Shares)，目的是為了兼顧安全性及方便性。秘密分享系統的基本概念是將一個主金鑰K拆成N份子金鑰(K,N)，若取得T份子金鑰，且 $T \leq K$ ，則主金鑰K可予以還原；若取得T-1份子金鑰，主金鑰K就無法還原。本文即基於前述原理，將Shamir (K,N)概念衍生運用於確保網站數位資料的安全性。在此秘密共享系統的門檻值(threshold)為 $n=K+1$ ，將網站的數位內容拆成K+1份的Partial Shares，然後嵌入選定網站的數位資料項目中；接著將一個接收器連接到網站，先將要隱藏的數位內容秘密計算成K+1份shares，每次從中萃取出每K個share，最後檢驗每個K+1份值有無一致性的現象，以確定萃取訊息之可信度，以達到萃取秘密訊息自我認證之目的，經由實驗結果和討論，證明該方法的可行性和有效性。

十一、發展支援物流安全之智慧型多重追蹤引擎系統

Development of Intelligent Smart Multi Tracking Agent System to Support of Logistics Safety

近來，使用GPS和無線通信技術確定貨物位置訊息，變得愈來愈方便。物聯網技術(IoT)和追蹤系統的發展，在所有的行業和社會環境中，使我們能夠確認是臨時性的現場情況。此外，使我們能夠運用資訊技術(Information Technologies, IT)於管理範圍。但是，由於難於及時辨識位置資訊及過於簡單的系統功能，致使在使用該系統時有許多的限制。全球化的相關物流追蹤系統仍有待進一步的研究，以解決前述問題。另一方面，本文設計及開發了以物聯網(IoT)和即時定位系統(Real Time Location Systems, RTLS)為基礎的智慧型多重追蹤引擎系統，使得相關的物流運輸更為安全、精確及可靠。

十二、採用瀑布模型開發具有成本效益方法的中型企業軟體

A Cost Effective Approach to Develop Mid-Size Enterprise Software Adopted the Waterfall Model

在第三世界國家已經顯著觀察到組織以電腦為基礎之資訊處理，因為電腦資訊處理的巨大利益，使得許多企業採取電腦化工作環境的重大措施。然而，對中小企業而言，設計和開發資訊資源管理軟體的預算成本和嚴格期限，都是軟體工程師的挑戰。因此，本文介紹了瀑布模型(Waterfall Model)，該模型為軟體發展生命週期(Software Development Life Cycles, SDLC)的一環，就是

以成本效益方法來設計中型企業軟體。為了實現研究目標，作者們開發了一個名為「BSK 管理系統」的軟體，以幫助企業軟體客戶的資訊資源管理和執行複雜的組織任務。應用瀑布模型的各階段，以確保所有的功能符合使用者需求、策略目標及達成目標。又導入豐富的畫面、結構化英語和資料字典，並以工程方式進行適度的調查。此外，也對 20 名參與者進行評估調查，調查該項軟體的可用性和效能。調查結果顯示，該系統的功能界面簡單、易於操作和維護、處理快速及交易具可靠性和準確性。

十三、具現代化的經濟價格調整軟體

Modernization of the Economic Price Adjustment Software

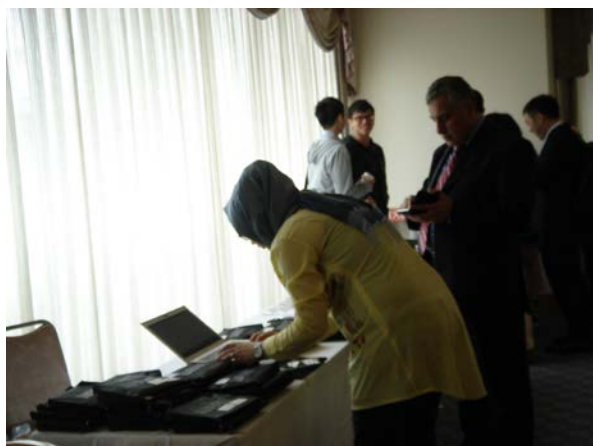
美國消費者物價指數(Consumer Price Indices, CPIs)測量了數百個的美國經濟項目，許多社會方案和政府福利指標都隨消費物價指數而調整。在 1990 年代中至 1990 年代末，大量的研究進入國會顧問委員會改變了 CPI。從研究觀之，其中一點就是如此，即除了有 CPI 的替代估計值，任何 CPI 根本性的變化都會影響到政府的許多方案。本文展示了一個小型的、可視覺化軟體產品的發展，該產品記錄了長期契約的經濟價格調整 (Economic Price Adjustment, EPA)。現有的工作簿無法提供彈性計算 EPAs，其差別在於以月為基礎及以月為選項，也未能提供自動檢查錯誤。此小型、可視覺化的軟體產品提供了額外的靈活性和錯誤檢查。

十四、管理資訊技術：資訊技術治理總評析

Managing Information Technology: An Overview of Information Technology Governance

目前，投資於資訊技術 (Information Technology, IT) 解決方案是大多數組織資本支出的最大項目，隨著對 IT 投資的持續增長，IT 管理者和策略師預期開發和付諸實施的有效決策模型(框架)，可以改善組織使用 IT 的決策過程，並優化 IT 解決方案的投資。更精確地說，組織不僅期望最大化 IT 解決方案的利益，也期望在快速引入技術變化時，可以避免許多相關的陷阱。不同組織取決於規模大小、解決方案複雜度需求及財務管理和預算編制的程序，可能使用不同的技術於管理 IT 解決方案的策略性投資。於組織內部使用 IT 的重要決策過程，常常被稱為 IT 治理 (或公司 IT 治理)。

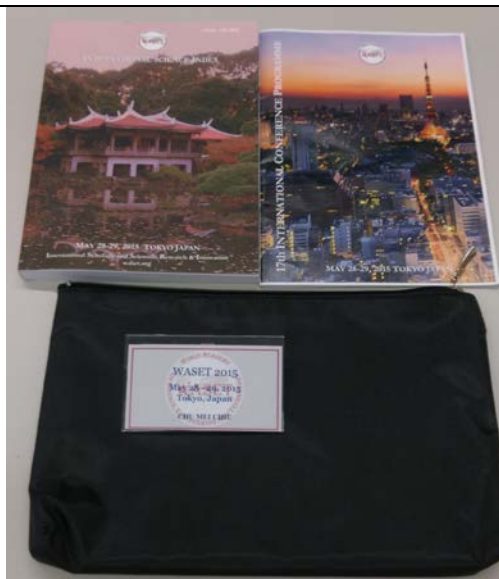
十五、研討會照片



研討會報到情形



研討會參加者名牌



研討會會議資料



研討會場外長廊及廳別指示標幟



研討會場B廳入口處



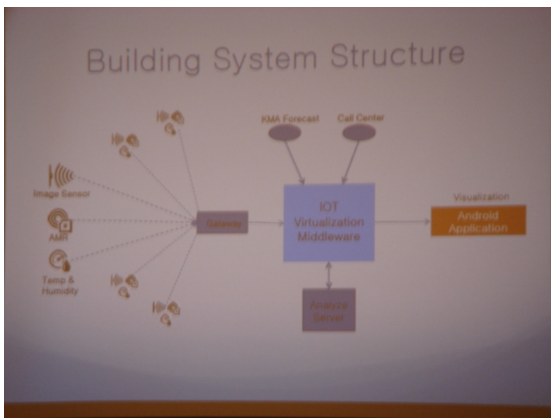
Keynote speech



研討會議中(1)



研討會議中(2)



研討會議中(3)



研討會議中(4)



研討會議中(5)



研討會議中(6)



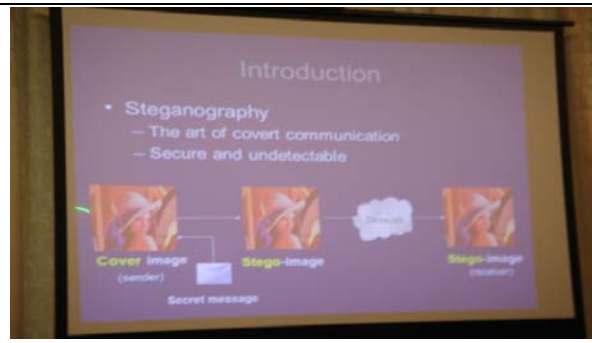
研討會議中(7)



研討會議中(8)



研討會議中(9)



研討會議中(10)

第四章 日本國立公文書館參訪

得本次研討會之利，特別安排於研討會前一天，前往日本國立公文書館參訪。距離上一次本局派員前往參訪已逾 10 年，藉由本次的訪視瞭解該館近年來的發展。最大的差異在於機關屬性的改變，本局籌備時期之施副主任宗英於民國 89 年率團訪問時，該館係日本總理府附屬機關，而於 2001 年(民國 90 年)改制為獨立行政法人。

一、參訪時間：104年5月27日上午10:00

二、公文書館接待人員：

(一)朽木真一先生

(二)松尾弘子小姐

三、傳譯人員：臺北駐日本經濟文化代表處政務組徐副組長鼎昌

四、訪談紀要：

(一)訪談地點：日本國立公文書館4樓會議室

(二)訪談時間：104年5月27日10時~12時

(三)參加人員：

1.日本國立公文書館：調整專門官朽木真一先生、公文書專門員岡本詩子小姐及該館亞洲歷史資料中心資料情報專門官松尾弘子小姐、研究員大野太幹先生、研究員佐久間健先生等人

2.臺北駐日本經濟文化代表處：徐副組長鼎昌

3.國家發展委員會檔案管理局：邱副組長菊梅、徐分析師姍茹

(四)訪談方式

本次訪談首先拜會國立公文書館次長佐佐木奈佳先生，贈送其本局電子檔案服務中心紀念品；接著以座談會方式進行本次的訪談拜會活動。由該館總務課調整專門官朽木真一先生、公文書專門員岡本詩子小姐及該館亞洲歷史資料中心的資料情報專門官松尾弘子小姐、研究員大野太幹先生、研究員佐久間健先生等人接待，由臺北駐日本經濟文化代表處政務組徐副組長鼎昌擔任翻譯工作。首先由雙方人員互換名片，朽木真一先生簡單介紹日本國立公文書館之業務現況，並播

放約10分鐘的介紹影片，讓我方參訪人員對該館有初步的認識後，雙方進行約80分鐘的意見交流，再由岡本詩子小姐帶領進行約40分鐘的實地導覽。

(五)日本國立公文書館簡介

1.地址：

(1)本館：東京都千代區北之丸公園3-2 (<http://www.archives.go.jp>)

(2)分館：茨城縣筑波市上澤6-6

(3)亞洲歷史資料中心：東京都文京區本郷3-22-5

住友不動產本郷大樓10樓

2.主要法令

(1)公文書館法(1987年12月15日法律第115號)

(2)國立公文書館法(1999年6月23日法律第79號)

(3)檔案等管理相關的法律(2009年7月1日法律第66號)

3.歷史沿革

(1)1971年7月1日合併內閣文庫，設立國立公文書館為總理府附屬機關。

(2)1998年設置筑波分館。

(3)2001年 4月 1 日獨立行政法人化(歸內閣府管轄)

(4)2001年11月30日設置亞洲歷史資料中心

將國立公文書館、外交省外交史料館及防衛省防衛研究所戰史研究中心收藏之近代現代日本和亞洲各國等關係之原始資料(檔案)進行數位化，並將資料庫(<http://www.jacar.go.jp/>)以網際網路方式公開給國內、外使用者。

4.收藏及公開情形(截至2014年3月31日止)

(1)1,353,053冊

●公文書(檔案) 873,553冊

●古書、古文書 479,500冊

(2)目錄公開99.0% ，資料庫登載：99.0%

(3)數位化檔案館提供的資料(檔案等)1,127,115冊 1,599萬影像(9.4%)

(4)拍攝轉制成微縮影片的書冊(檔案等)137,173冊

5.應用情況(2014年7月公布之2013年度情況)

- (1)展覽應用人數：年約4,500人次
- (2)閱覽冊數：年約69,200冊
- (3)複製件數：年約3,400冊
- (4)行政應用：年約700冊

6. 網站瀏覽人次

- (1)日本國立公文書館網站：年約297,300人次
- (2)亞洲歷史資料中心網站：年約656,700人次

(六) 座談重點

1. 電子檔案長期保存制度、策略與技術為何？請提供相關手冊與規定。

答：日本國立公文書館於 2010 年 6 月 22 日發行的「2010 新資訊和通信技術策略」（詳如後述），做為該館電子檔案長期保存制度、策略與技術之指引。該指引於網站上有英文版，請自行下載參閱。

2. 電子檔案轉置時機、流程及相關做法為何？

答：凡是移轉到中央資訊系統的電子檔案，在移入時就必須轉置成該系統自行訂定的檔案格式，轉置後的電子檔案並沒有進行品質的驗證，原則上移入系統一年之後，就會提供開放應用。

3. 電子檔案鑑定技術為何？

答：電子檔案的鑑定主要是依據系統的雜湊函數(hash function)產生的雜湊值來判斷是否完整，並沒有其他太多的鑑定作為，至於非電子檔案就聘請外部專家以人工方式進行鑑定工作。

4. 電子檔案如何進行線上移轉？移轉流程為何？

答：實務上日本政府機關移進國立公文書館的電子檔案數量很少，機關若需移轉電子檔案至該館，目前係先將其電子檔案上傳至下載區，再由館方人員自行下載處理，尚無明確的電子檔案移轉流程。

5. 是否有數位博物館？請問如何管理運用？

答：已建置數位資料館開放各界使用，本系統沒有任何的使用限制，更沒有封裝驗證處理，館方僅負責系統日常維運管理，至於使用者則依系統功能，自行檢索查詢所需檔案資料，完全是由使用者自負數位檔案的運用責任。

6. 是否有導入電子文書製作與線上簽核作業？相關電子簽章或身分驗證做法為

何？電子檔案封裝如何驗證其資料之完整性、真實性、機密性及不可否認性。

答：目前是由總務省負責推動線上簽核作業，館方系統雖已經建置完成，但仍處於理想階段，並無可供說明的運作案例，真正的運作仍待努力。

7. 資訊安全防護機制及相關做法為何？

答：已建置一個系統長期儲存電子公文的系統，此系統相關的安全做法也是參考「2010 新資訊和通信技術策略」。

8. 開放前提是否會先處理？

答：由於資料移轉進來之前，若有不適合開放的檔案，原保管機關均會先行處理，基本上，本館開放線上查詢的電子檔案資料並不會做任何遮掩處理。

(七) 參觀重點

本次參訪行程由岡本詩子小姐一人帶領及解說，徐副組長亦全程陪同翻譯，由於時間有限且該館可提供參訪或拍照的區域非常有限，僅實地參觀 2 樓閱覽室及 1 樓展覽空間，其他空間如編目作業區、檔案修復室、典藏庫房及數位化作業環境均未提供參觀，爰僅摘述閱覽室及展覽區如下：

1. 閱覽室位於 2 樓，門口設有置物櫃，供來訪者置物之用。於閱覽室為身障人士標幟了特別的座位，此與一般座位的差別，僅止於位置略為寬敞，並無其他任何輔助設施。此空間禁止拍照攝影，當日僅見一位工作人員及另有一位研究者在現場閱覽文件。
2. 展覽區設於 1 樓，面積不大，目測約為本局新莊辦公區 1 樓展覽區的三分之一，以一個回字型設計展覽空間，展覽設施極樸實，僅見將文書影印複製品以櫥窗及裱掛方式展出，未見任何電腦型式的線上主題展或其他形式的輔助展具。1 樓展區可攝影但禁用閃光燈。其鎮館之寶為大日本帝國憲法及二次世界大戰終戰後 70 年之終戰詔書特別展。

(八) 新資訊和通信技術策略簡介

為實現日本國立公文書館的目標，依 2010 年至 2020 年的時間框架，要求各部門具體執行相關措施，因而於 2010 年 5 月 11 日發行「新資訊與通信技術策略發展路線(The New Strategy in Information and Communications Technology(IT) Roadmaps)」(詳參網址：<http://japan.kantei.go.jp/policy/it/100622.pdf>)。

該份技術策略的框架共分成 30 個發展路線(roadmaps)，其範圍多與民眾息

息相關之 e 政策，如公民參與政策決定、醫療用藥照護、教育領域、振興社區、精進對抗災害犯罪及事故的處理措施、推動低碳及綠化貨物運輸、雲端運算安全、公共採購市場等諸多議題。每份發展路線藉由會計年度及重點事項，描述每一省廳(Ministry)的任務，且定義不同部門間應該如何相互合作，以達成優先措施。每份發展路線皆附有參考資料，描述每一省廳於短期(2010~2011 年)、中期(2012 年至 2013 年)和長期(2014 以後)時間表內所需達成的特定任務。茲列示 30 個發展路線如下：

1. 依據審查經驗評析先前 IT 相關投資及實施革新措施 (Reviewing Previous IT-Related Investments; and Implement the Measures Reform Based on the Lessons from Review)

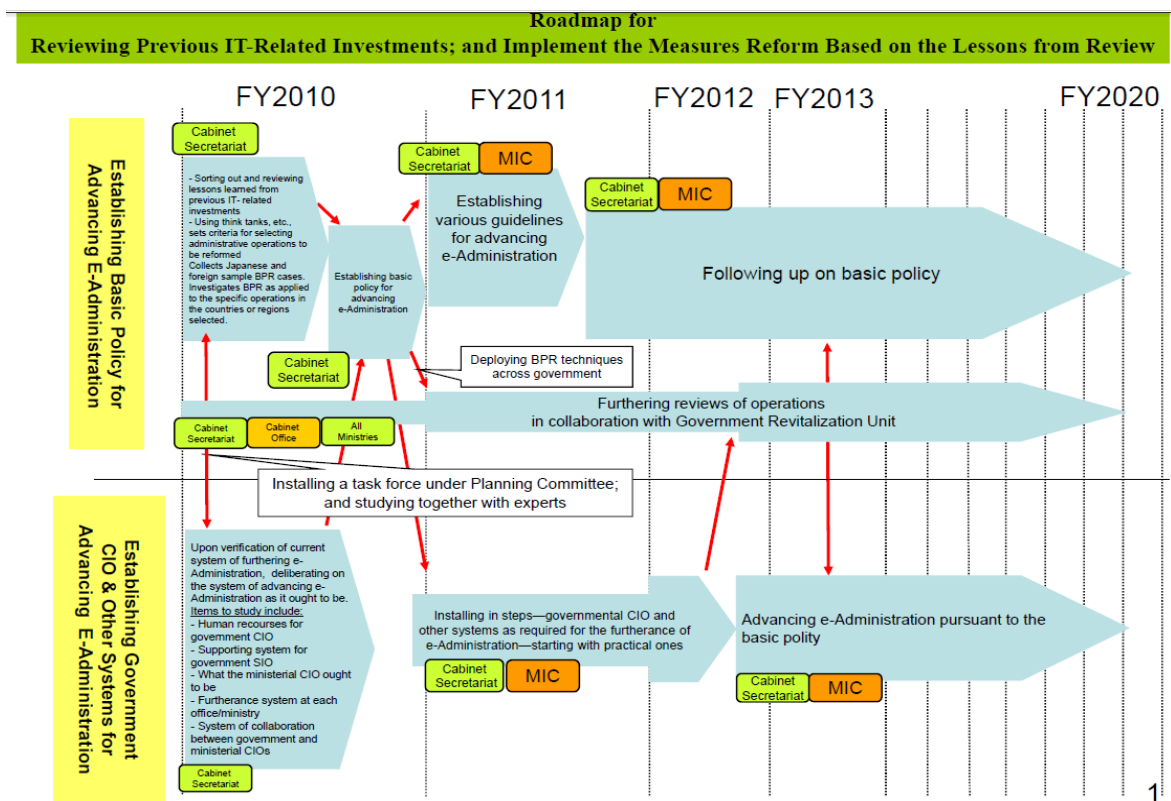


圖 1 依據審查經驗評析先前 IT 相關投資及實施革新措施

2. 發展線上存取管理服務的相關開發計畫

(Developing Plans Related to On-line Access to Administrative Services)

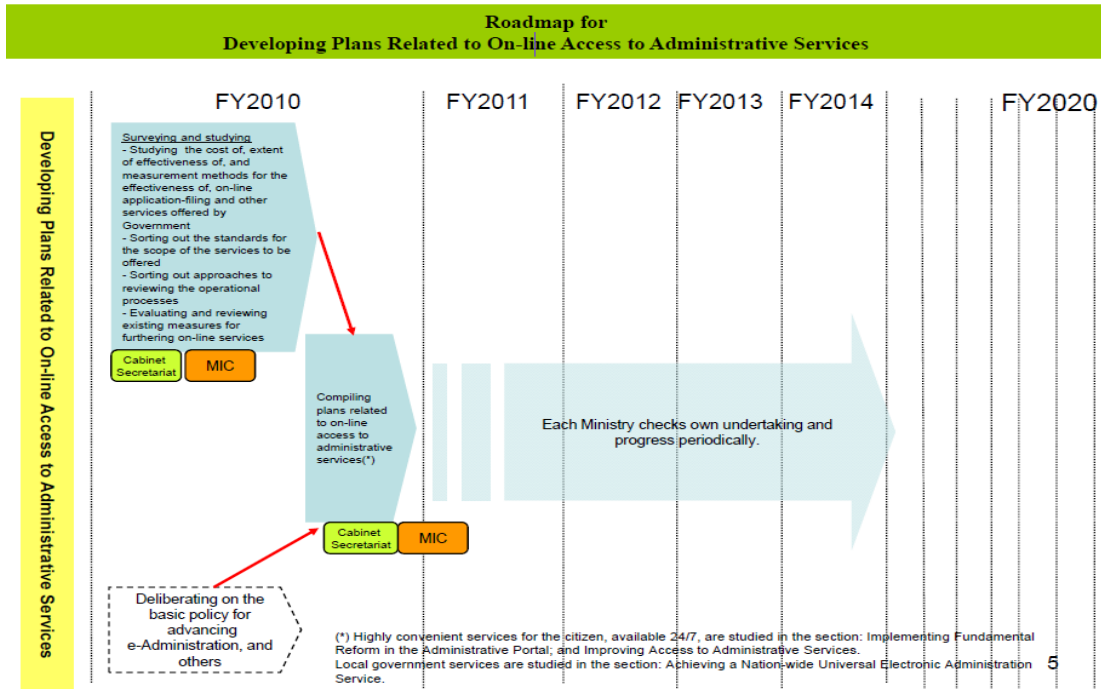


圖 2 發展線上存取管理服務相關開發計畫

3. 行政入口網基本變革建置及行政服務存取改善 (Implementing Fundamental Reform in the Administrative Portal; and Improving Access to Administrative Services)

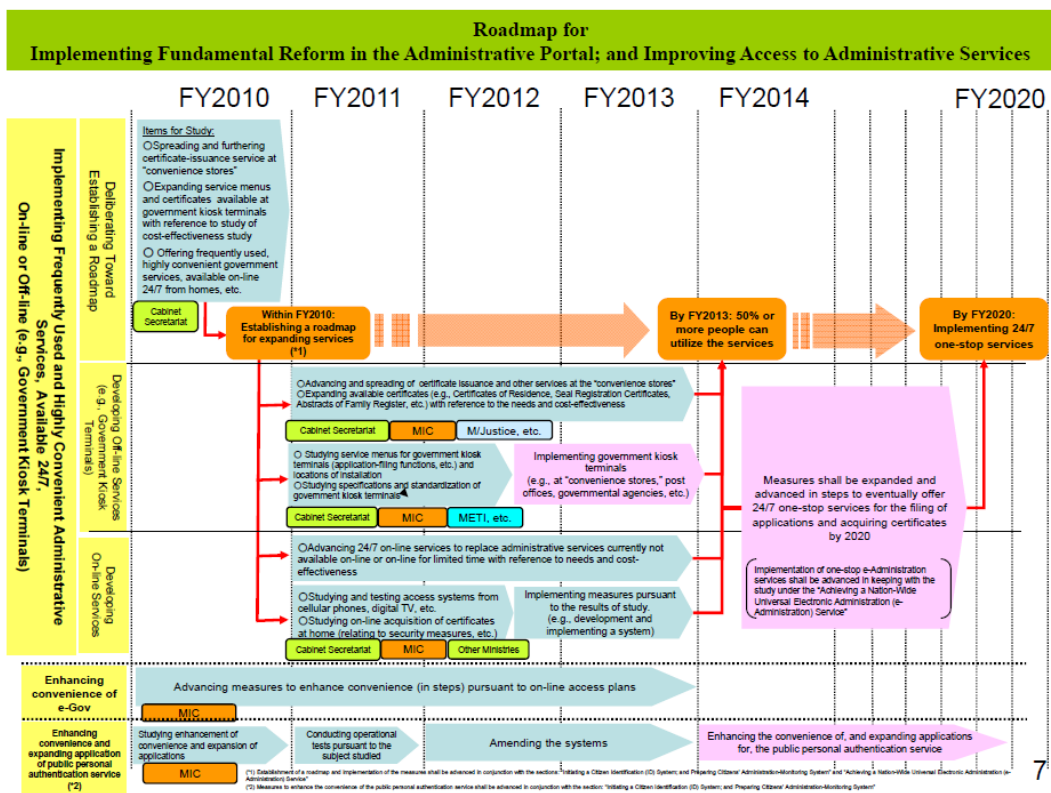


圖 3 行政入口網基本變革建置及行政服務存取改善

4. 啟動市民身分 (ID) 識別和預擬市民管理監控系統 (Initiating the Citizen Identification (ID) System; and Preparing Citizens' Administration-Monitoring System)

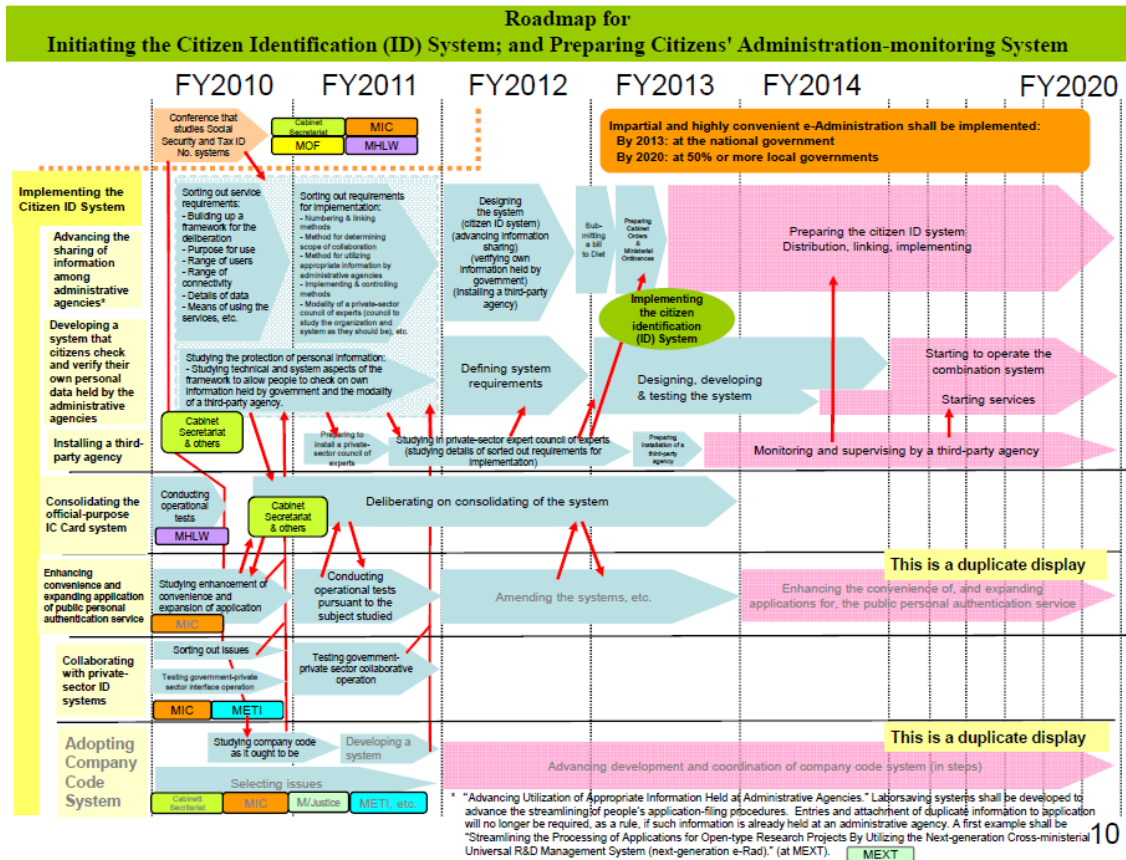


圖 4 市民啟動身分 (ID) 識別和預擬市民管理監控系統

5. 政府資訊系統強化和彙總

(Consolidating and Aggregating Governmental Information Systems)

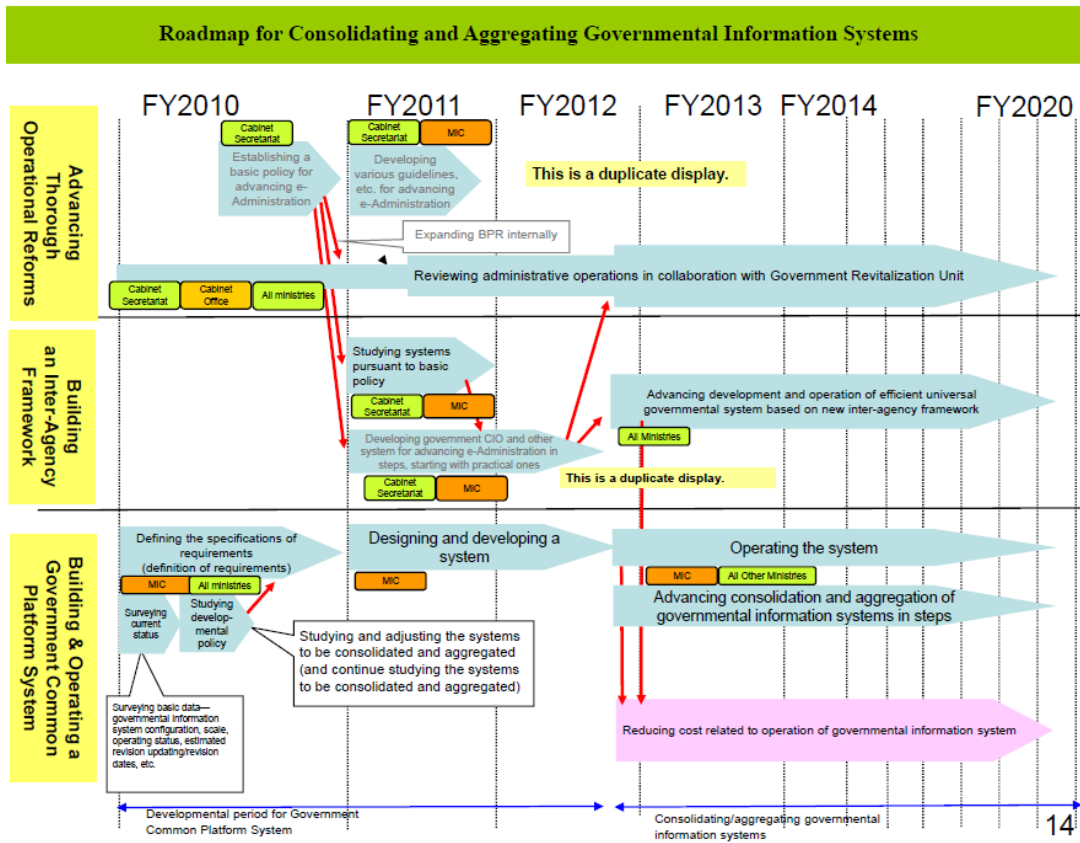


圖 5 政府資訊系統強化和彙總

6. 實現全國通用電子政務(e-政務)服務

(Achieving a nation-wide universal electronic administration (e-Administration) service)

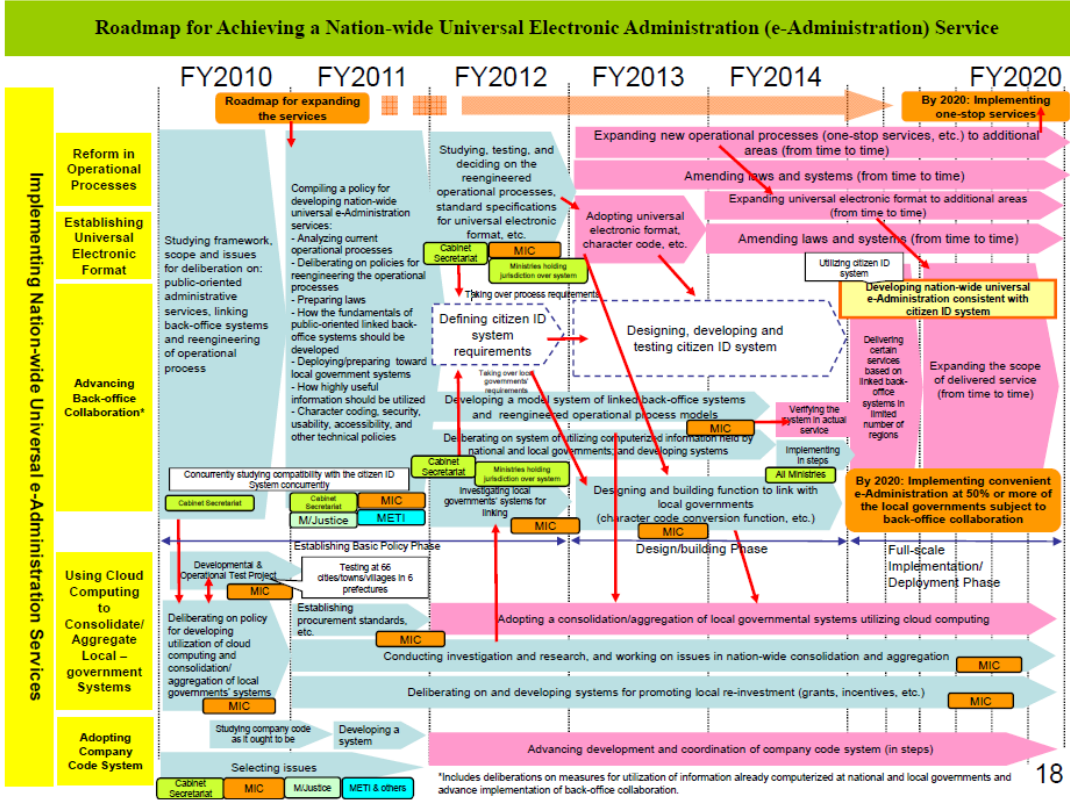


圖 6 實現全國通用電子政務(e-政務)服務

7. 促進行政資訊釋出及提供與提升政策制定及其他政治活動公民參與 (Promoting Release and Offering of Administrative Information; and Promoting Citizen Participation in Policy Making and Other Political Activities)

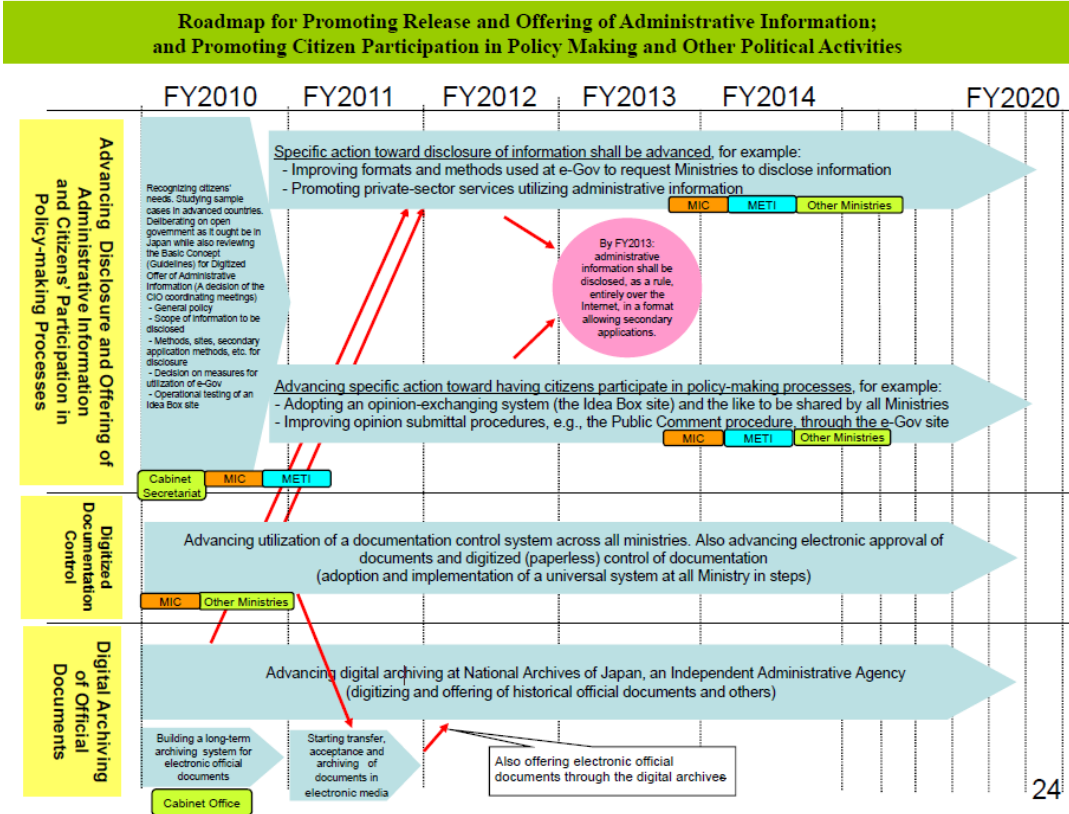


圖 7 促進行政資訊釋出及提供與提升政策制定及其他政治活動公民參與

8. 行政機關管有資訊的運用

(Utilizing Information Held by the Administrative Agencies)

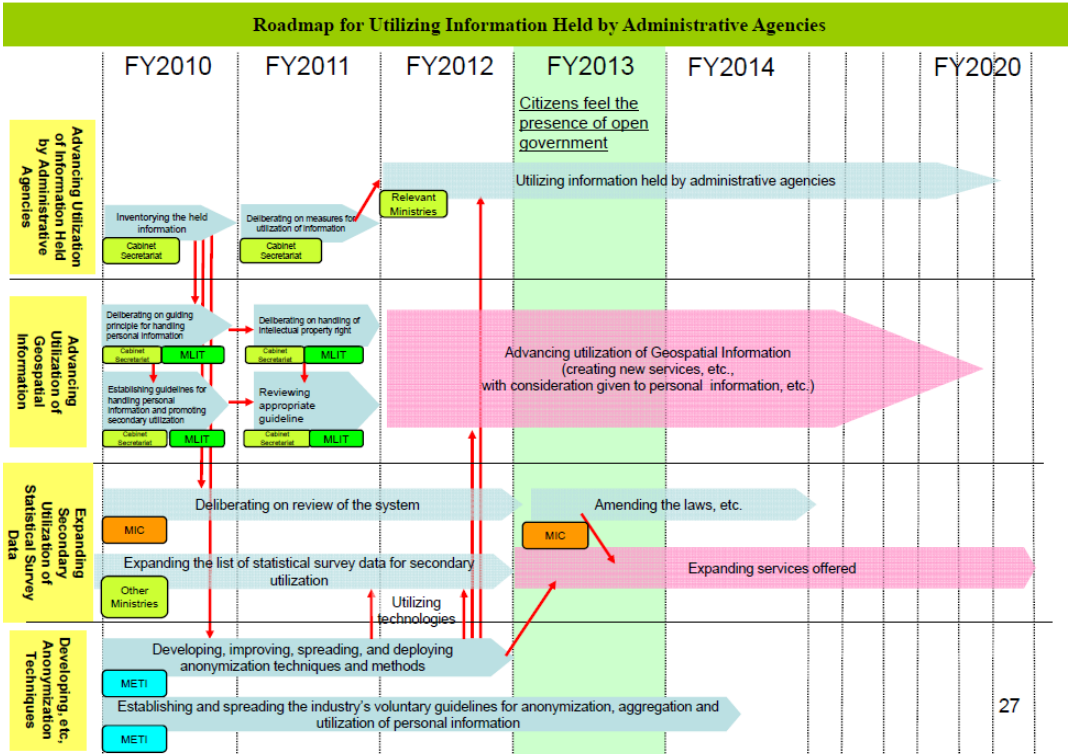


圖 8 行政機關管有資訊的運用

9. 現實世界導入「我的醫院無所不在」之概念 (日本個人健康紀錄服務)

Bringing the “My Hospital Everywhere” Concept into Reality (Japan's Personal Health Record service)

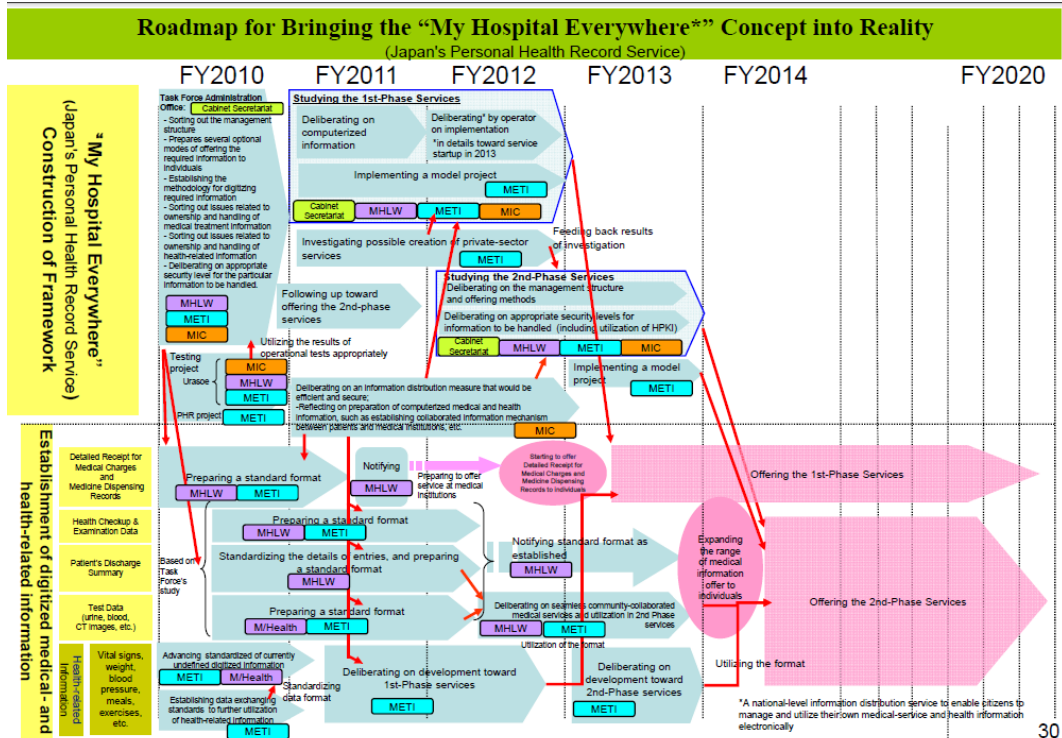


圖 9 現實世界導入「我的醫院無所不在」之概念

10. 實施無縫社區合作醫療服務

(Implementing Seamless Community-collaborated Medical Services)

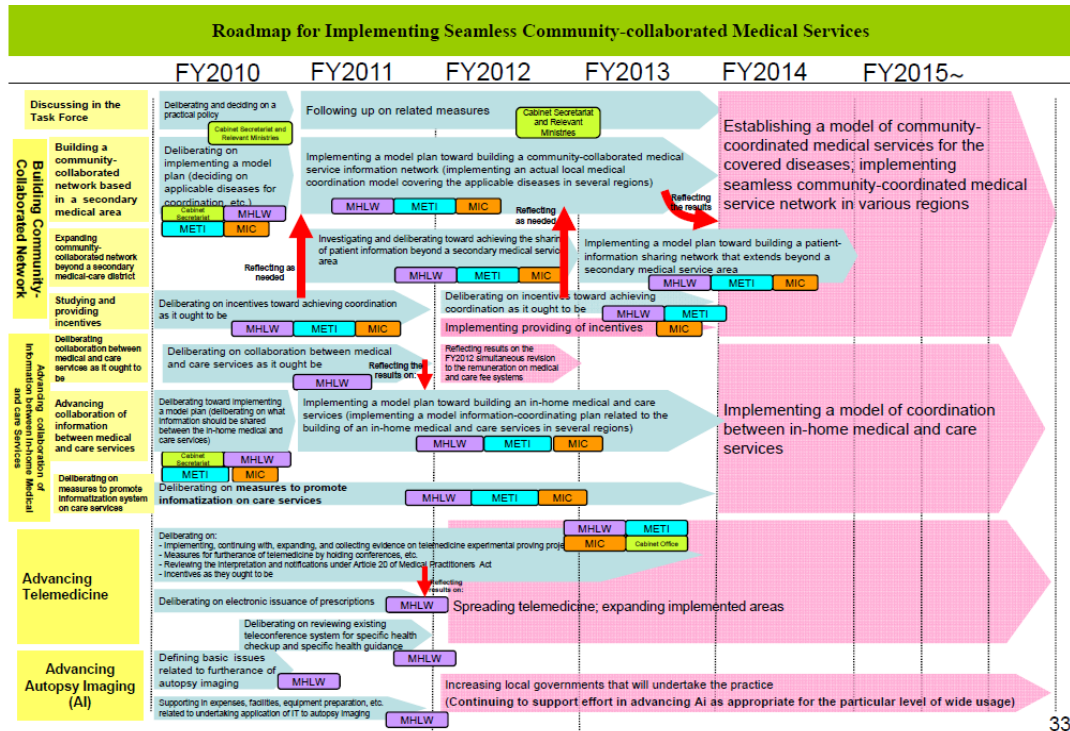


圖 10 實施無縫社區合作醫療服務

11. 利用醫療保險索賠數據及相關資料規劃高效率醫療服務

(Planning for Efficient Medical Services Using Medical Insurance Claim Data and Others)

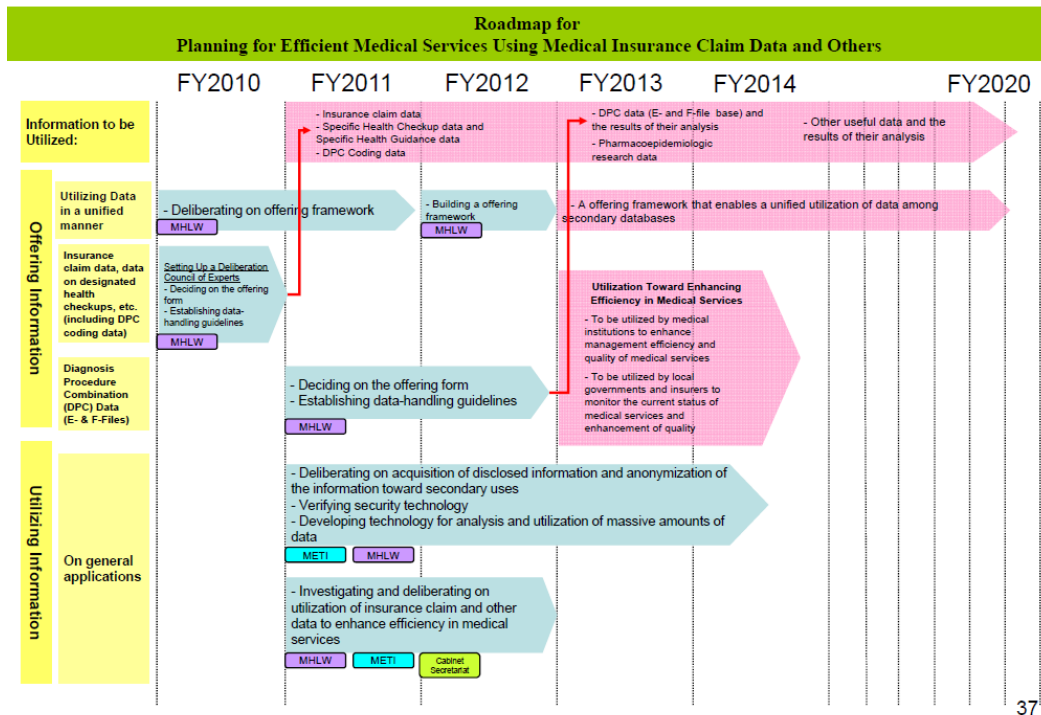


圖 11 利用醫療保險索賠數據及相關資料規劃高效率醫療服務

12. 利用醫療資料庫提升藥物安全

(Promoting Pharmaceutical Safety Through the Use of Medical Information Database)

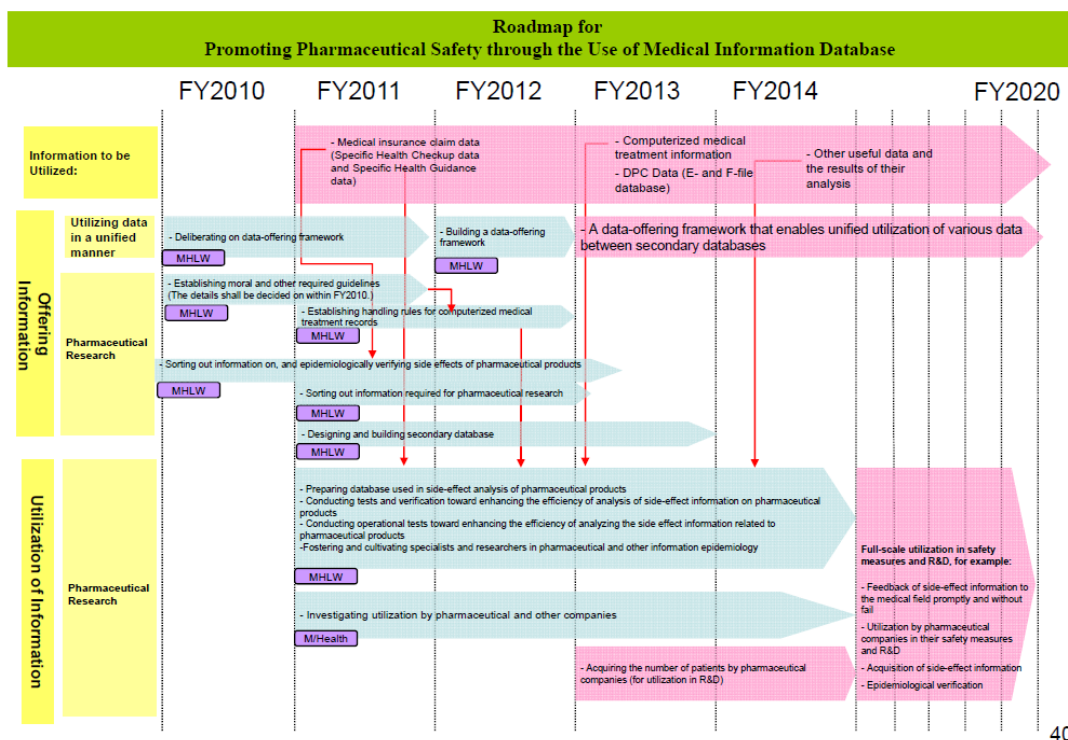


圖 12 利用醫療資料庫提升藥物安全

13. 精進老人居家醫療、照顧、看護及其他服務

(Advancing In-home Medical, Care, Watching, and Other Services for the Aged)

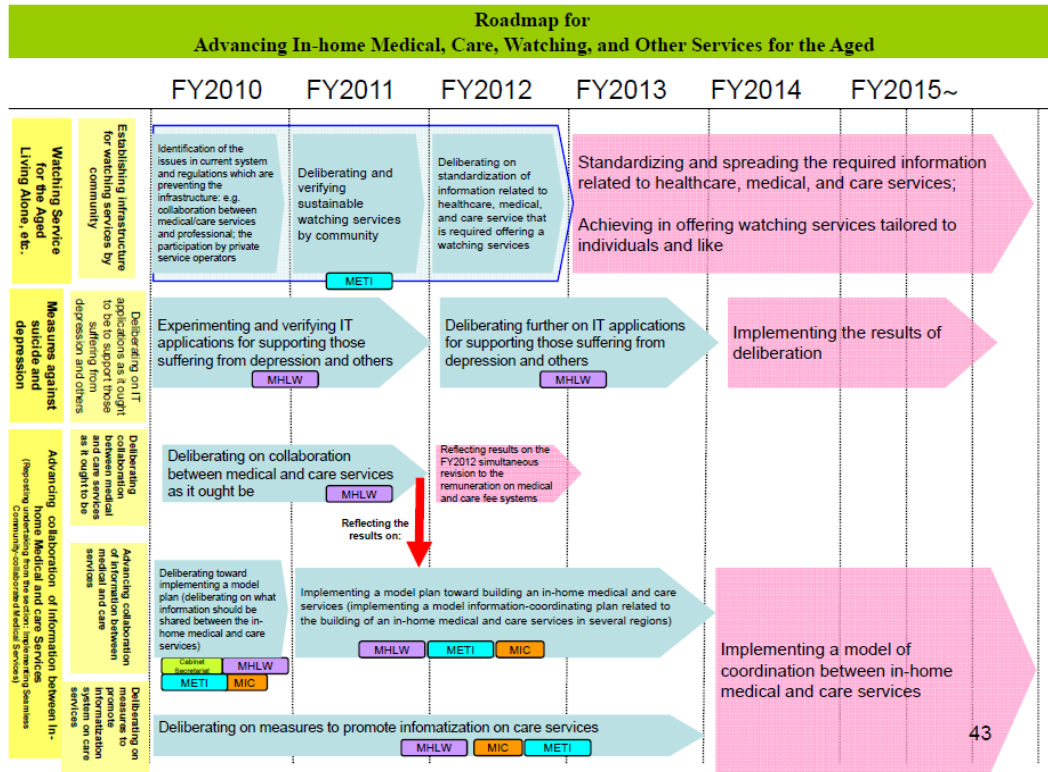


圖 13 精進老人居家醫療、照顧、看護及其他服務

14.發展和傳播對老年和身障者具親和性之硬軟體 (Developing and Disseminating Hardware and Software Friendly to Senior Citizens and the Persons with Disabilities)

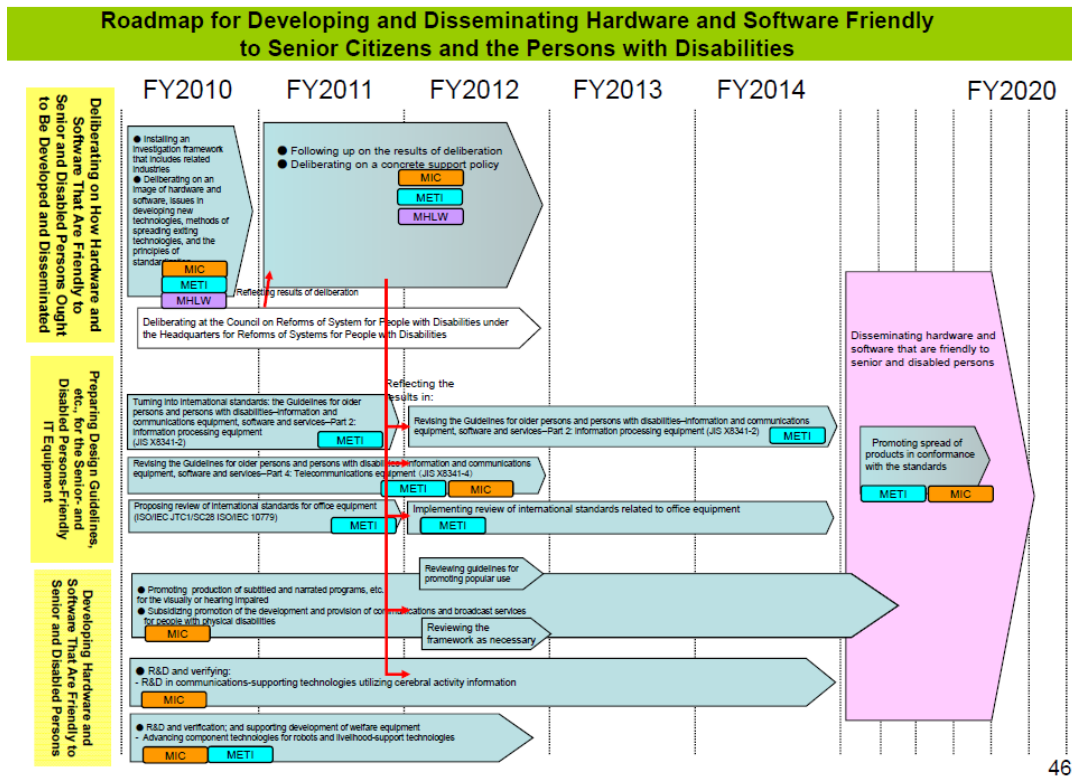


圖 14 發展和傳播對老年和身障者具親和性之硬軟體

15. 推動遠距辦公(Promoting Teleworking)

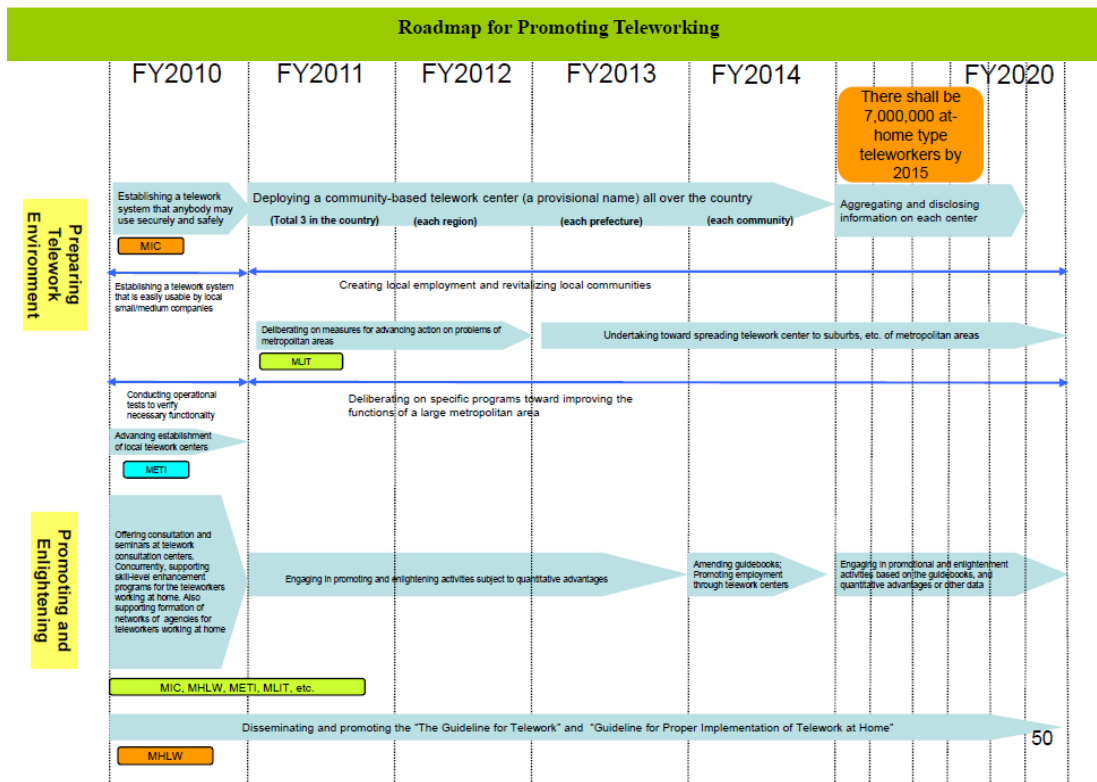


圖 15 推動遠距辦公

16. 教育界的任務(Undertaking in the Educational Field)

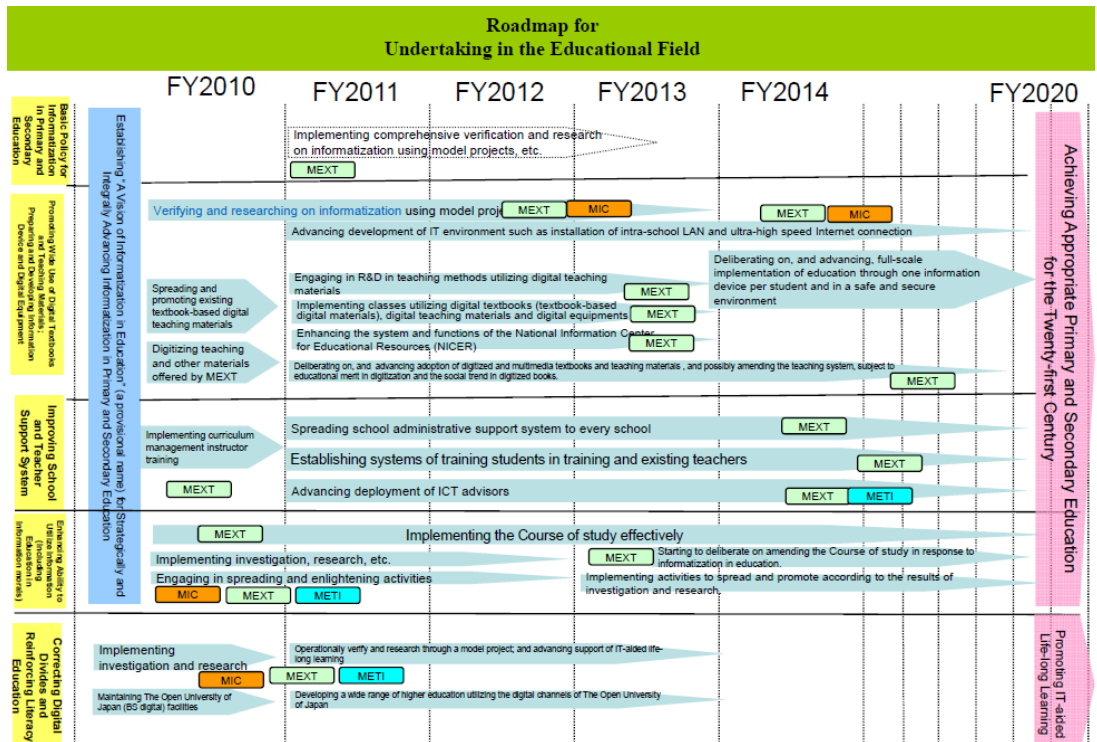


圖 16 教育界的任務

17. 振興在地社區 (Revitalizing Local Communities)

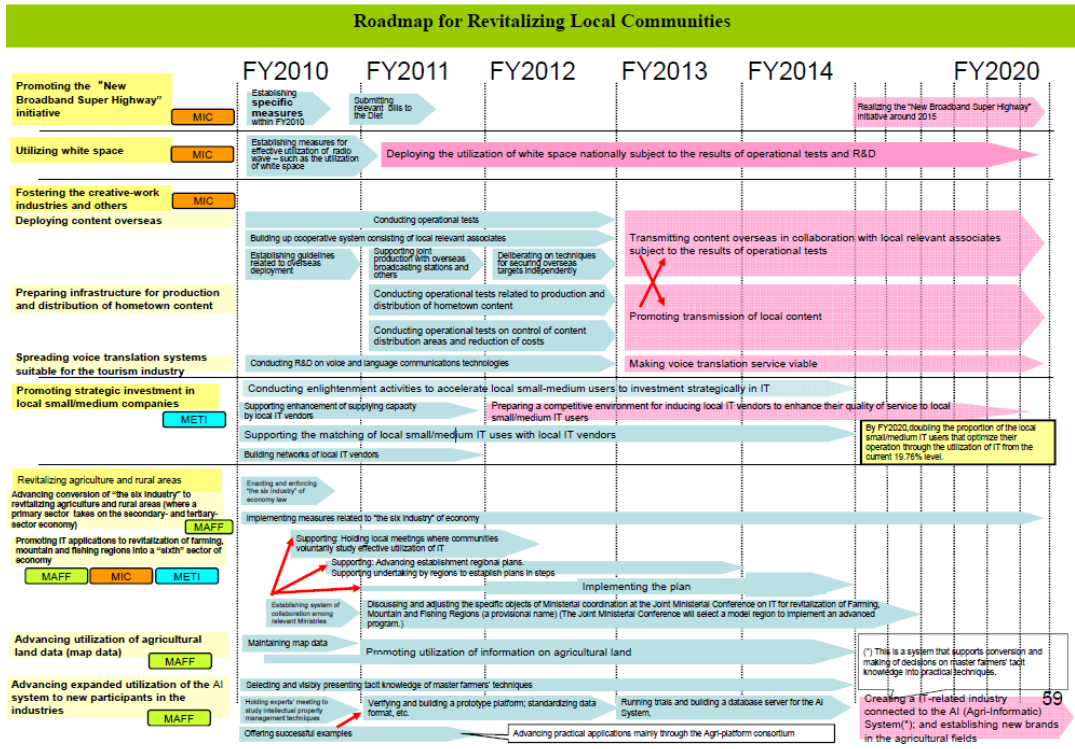


圖 17 振興在地社區

18. 精進防災及犯罪、事故防制處理措施

Advancing Measures against Disasters, Crimes and Accidents

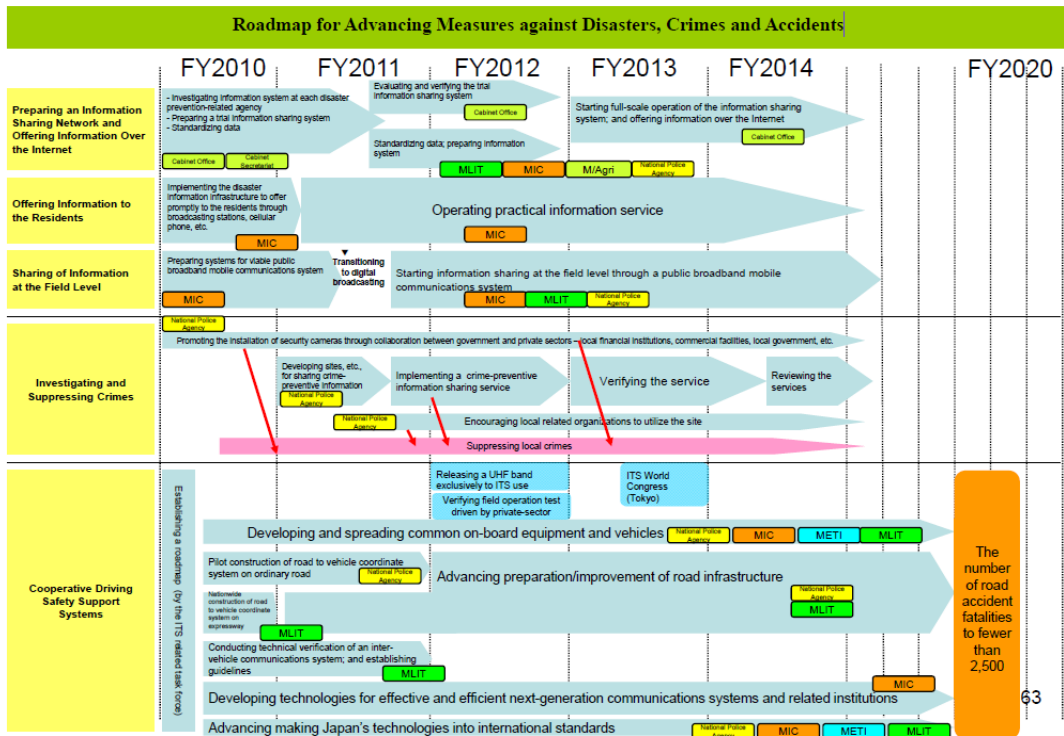


圖 18 精進防災及犯罪、事故防制處理措施

19. 推動智慧電網及低碳家庭和辦公室

(Promoting Smart Grid and Low-carbon Homes and Offices)

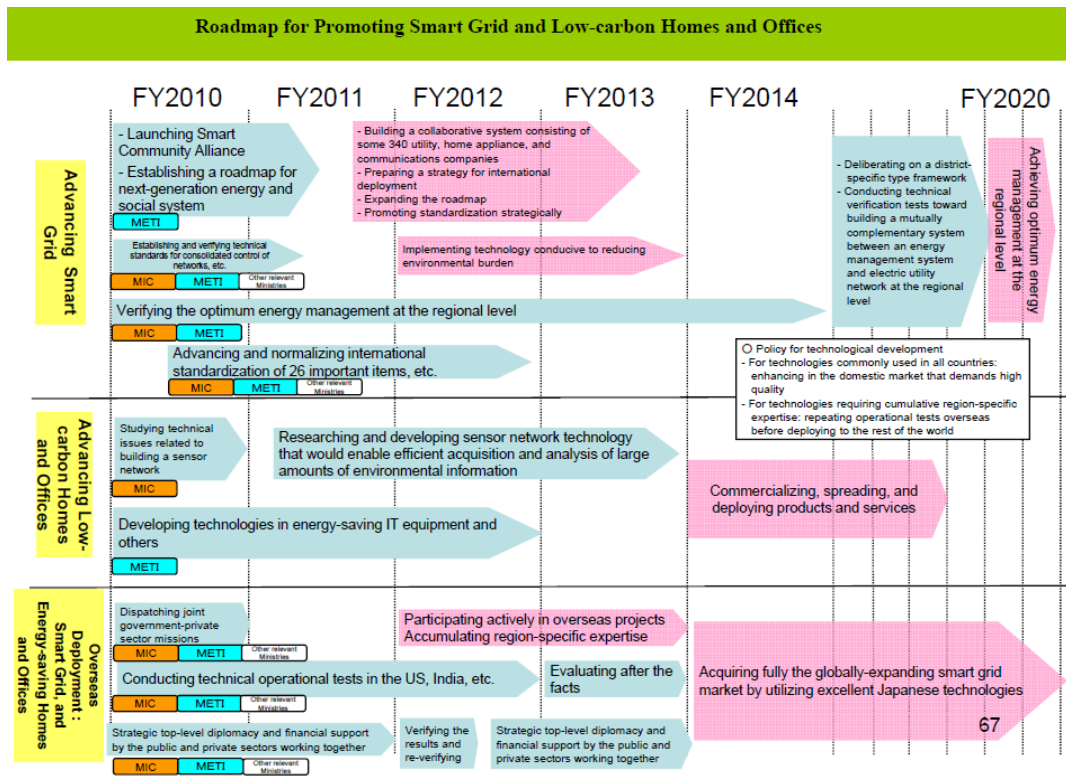


圖 19 推動智慧電網及低碳家庭和辦公室

20. 運輸人員及貨物的綠化

(Greening the Transport of People and Goods)

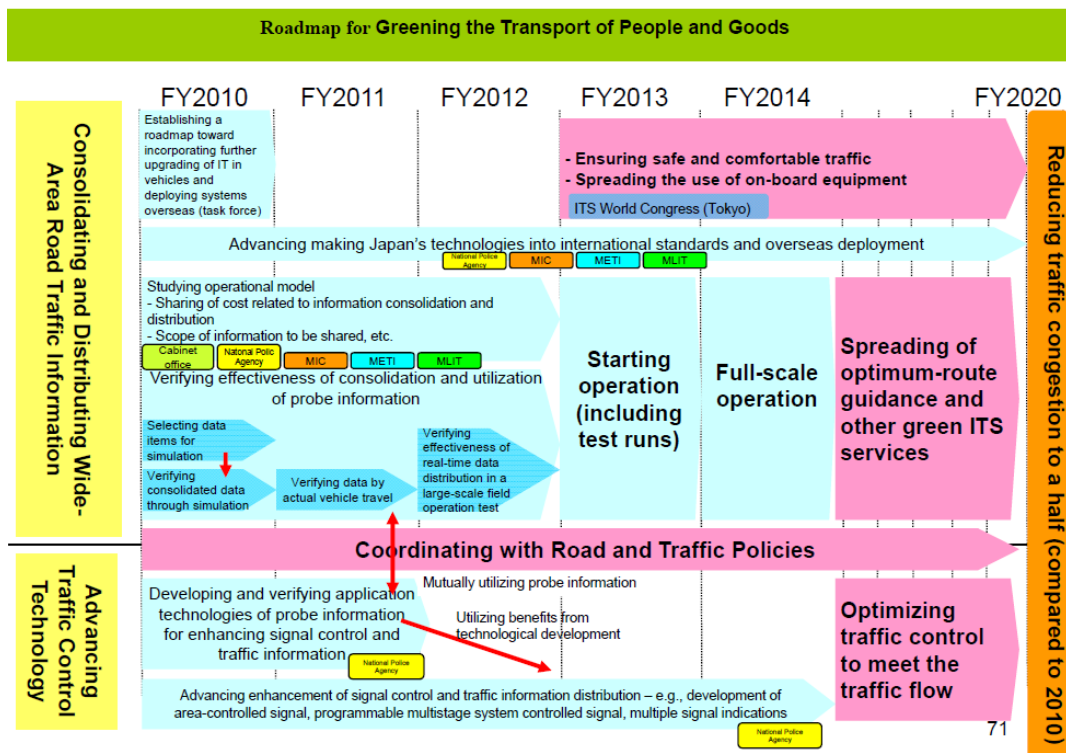


圖 20 運輸人員及貨物的綠化

21. 藉由 IT 領域降低環境負擔

(Reducing Environmental Burden by the IT Field)

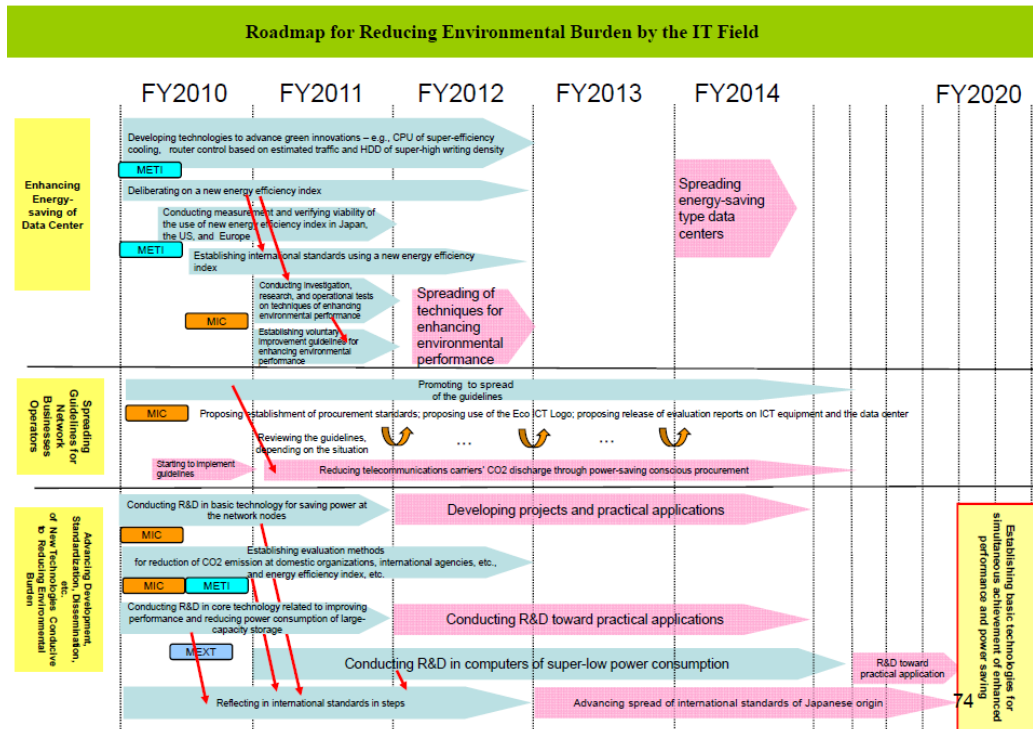


圖 21 藉由 IT 領域降低環境負擔

22. 精進日本擅長的 IT 相關研發事業領域

(Advancing IT-related R&D Where Japan Excels)



圖 22 精進日本擅長的 IT 相關研發事業領域

23. 數位內容市場極力擴展情形

(Expanding the Digital Content Market Dramatically)

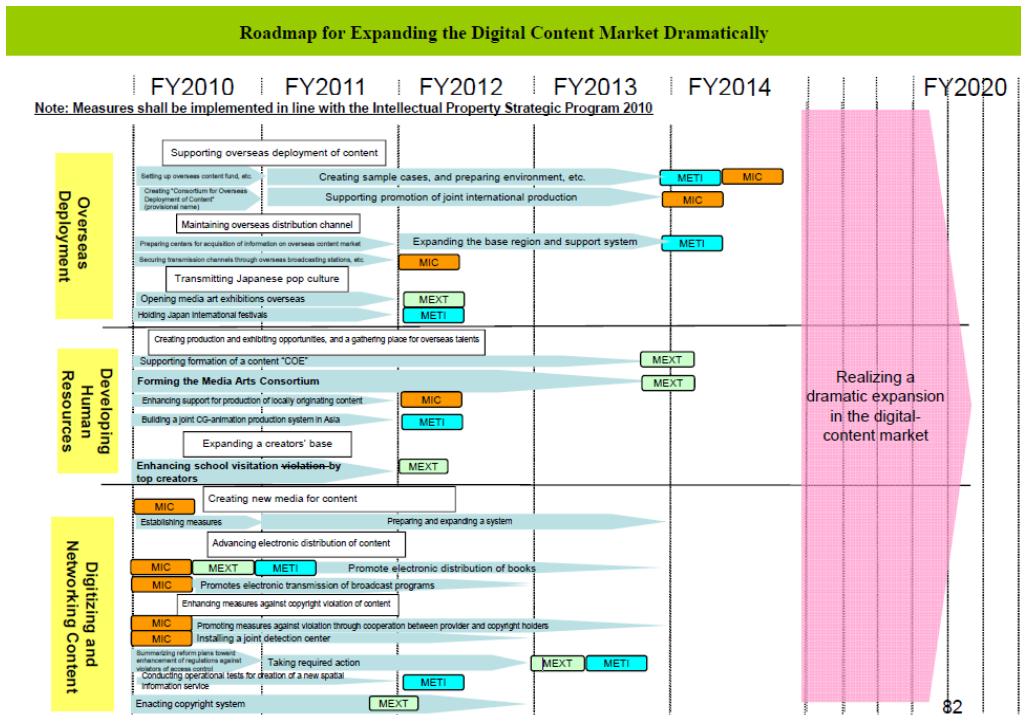


圖 23 數位內容市場極力擴展情形

24. 利用空間資訊服務和其他數位資訊創造新市場

(Creating New Markets Using Spatial Information Services and Other Digital Information)

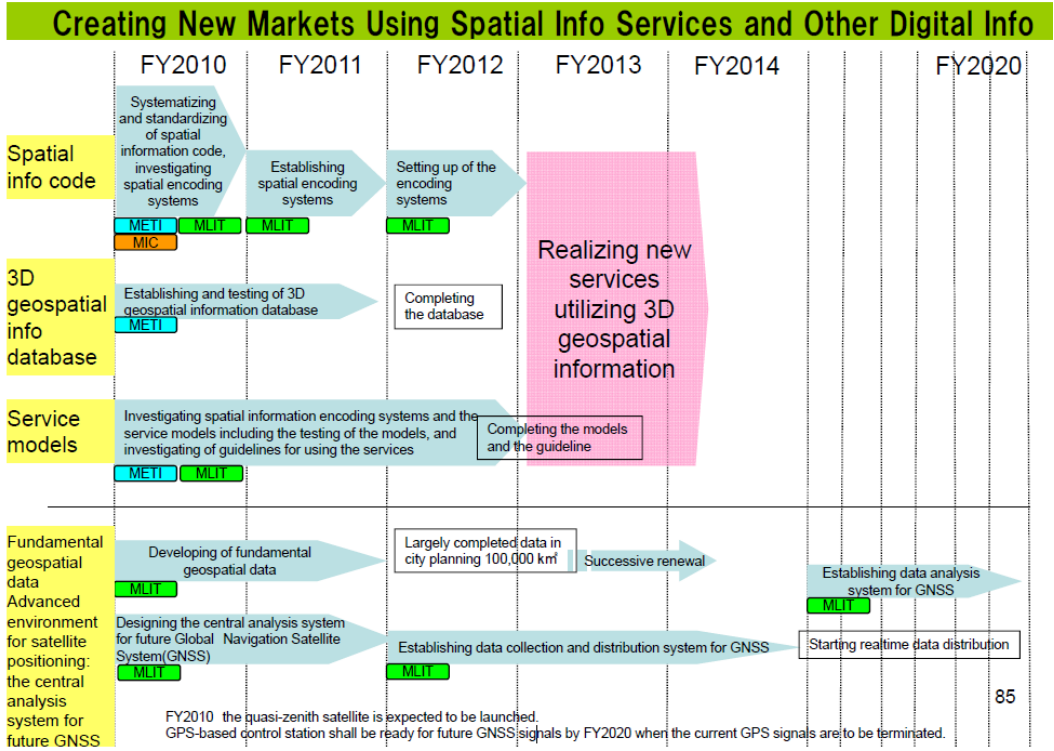


圖 24 利用空間資訊服務和其他數位資訊創造新市場

25. 發展精進資通訊相關產業的人力資源

(Developing Human Resources Related to Advanced IT)

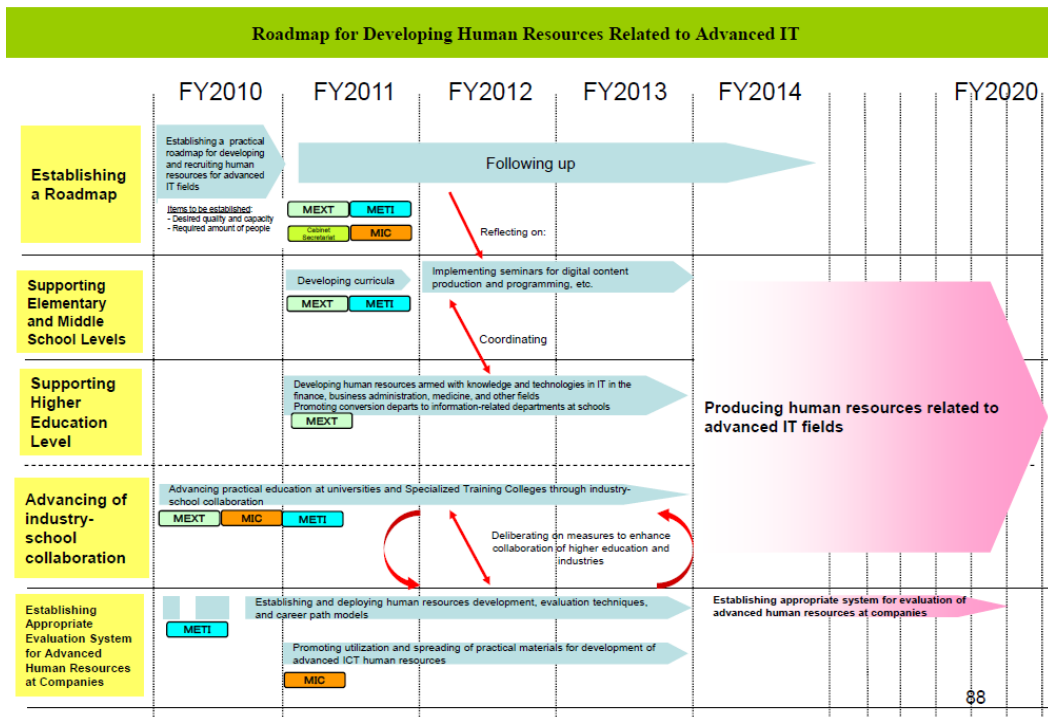


圖 25 發展精進資通訊相關產業的人力資源

26. 鞏固雲端運算服務的競爭力

(Securing Competitiveness of Cloud Computing Service)

Roadmap for Securing Competitiveness of Cloud Computing Service

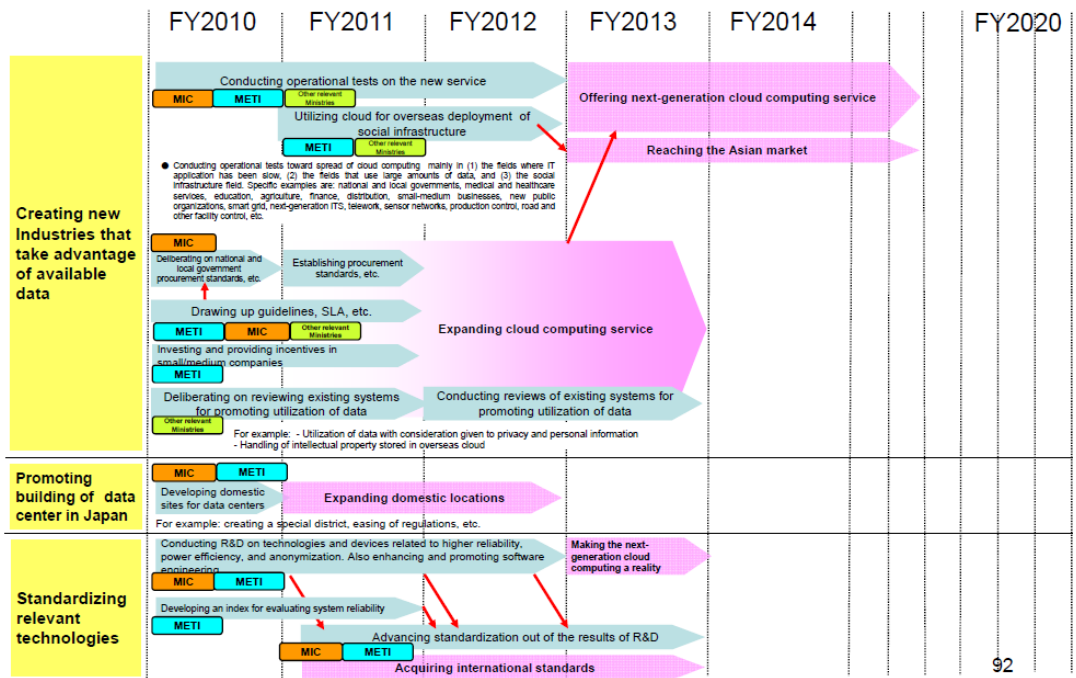


圖 26 鞏固雲端運算服務的競爭力

27. 亞太地區的任務

(Undertaking in the Asia-Pacific Region)

Roadmap for Undertaking in the Asia-Pacific Region

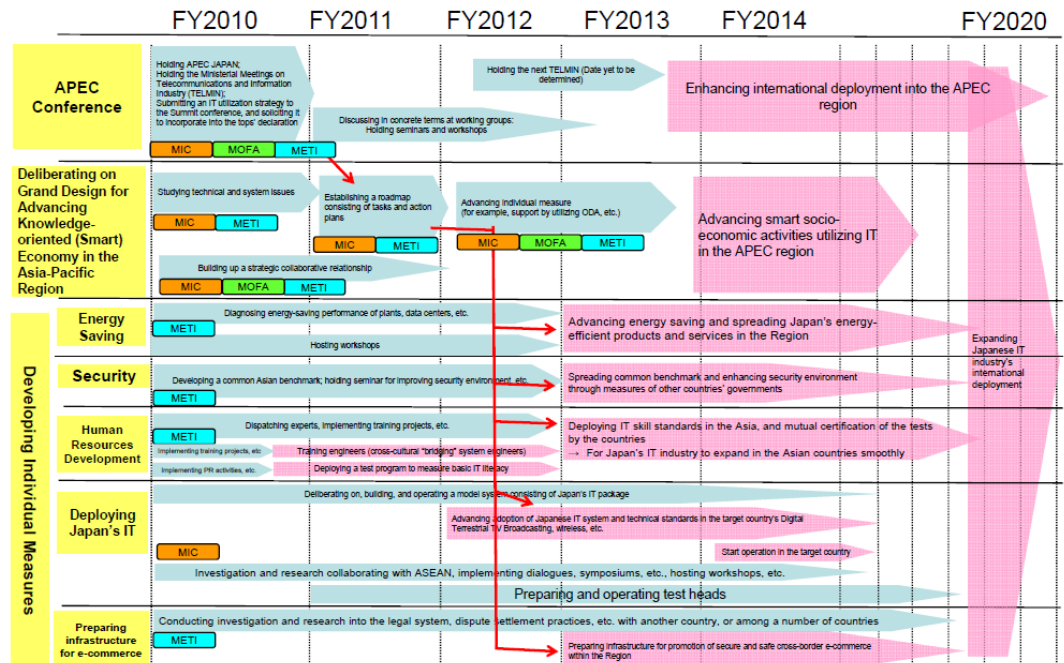


圖 27 亞太地區的任務

28. 構建國際分配銷通路之共通性貨物追蹤網路

(Constructing a Common Cargo Tracking Network for International Distribution System)

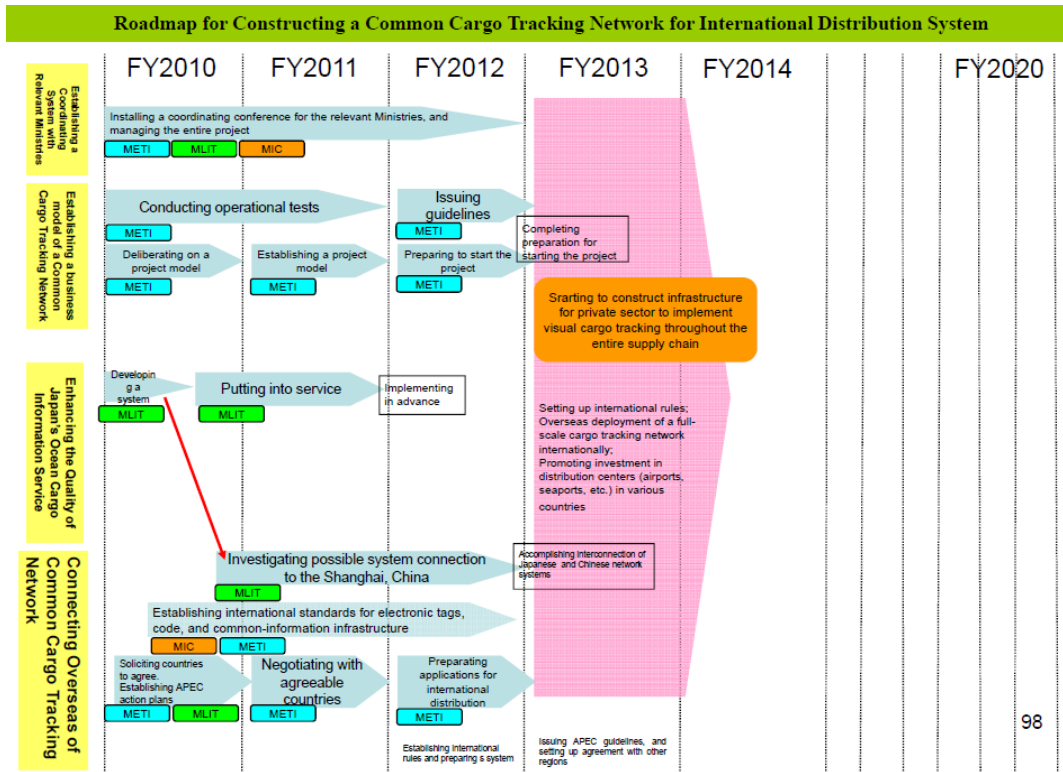


圖 28 構建國際分配銷通路之共通性貨物追蹤網路

29. 支持成立全球 IT 聯盟

(Supporting the Establishment of a Global IT Consortium)

Roadmap for Supporting the Establishment of a Global IT Consortium

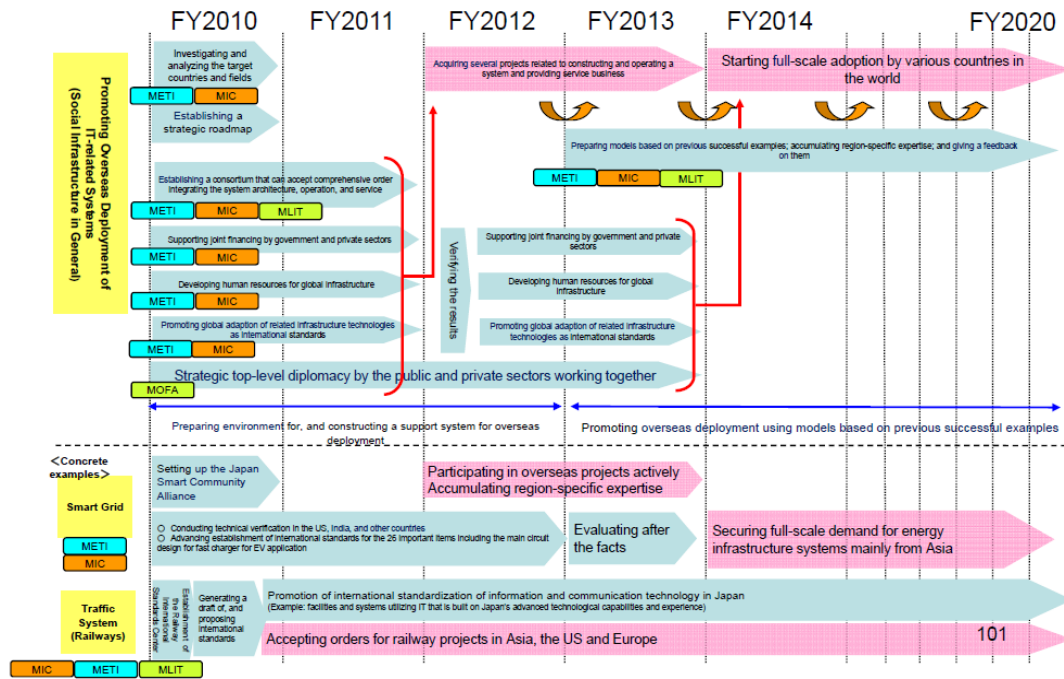
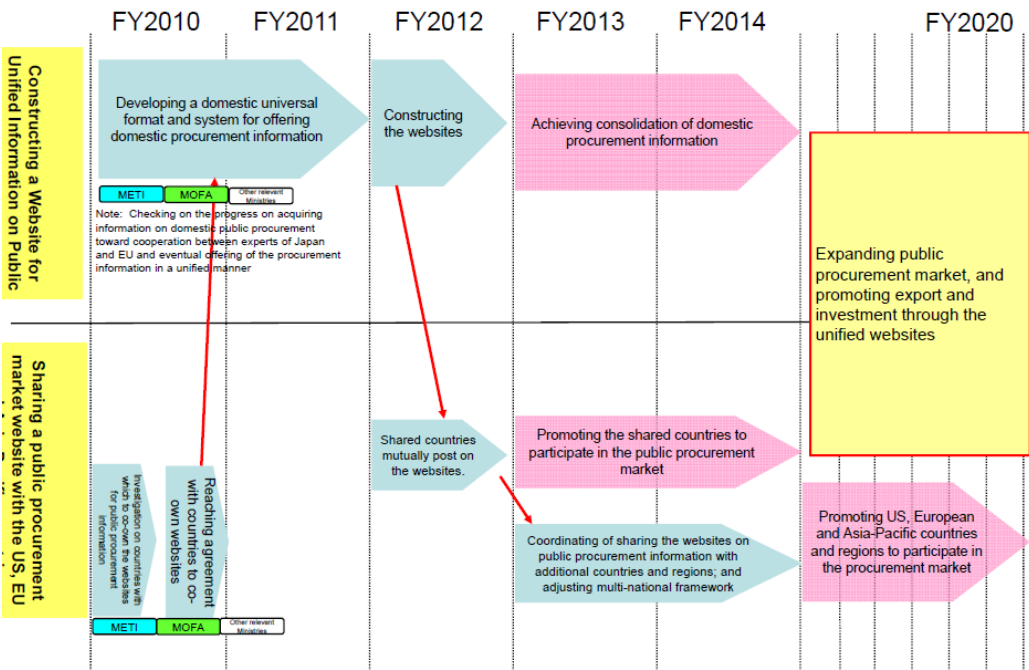


圖 29 支持成立全球 IT 聯盟

30. 經由 IT 擴展公共採購市場

(Expanding Public Procurement Market through IT)

Roadmap for Expanding Public Procurement Market through IT



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圖 30 經由 IT 擴展公共採購市場

五、參訪照片



日本國立公文書館外觀(東京)



日本國立公文書館樓層介紹看板



致贈本局紀念品予日本國立公文書館
次長佐佐木奈佳先生代表接受



日本國立公文書館外觀(東京)



訪賓入館證



本局參訪人員與國立公文書館參與人員合影



訪談會議(1)



訪談會議(2)



訪談會議中(3)



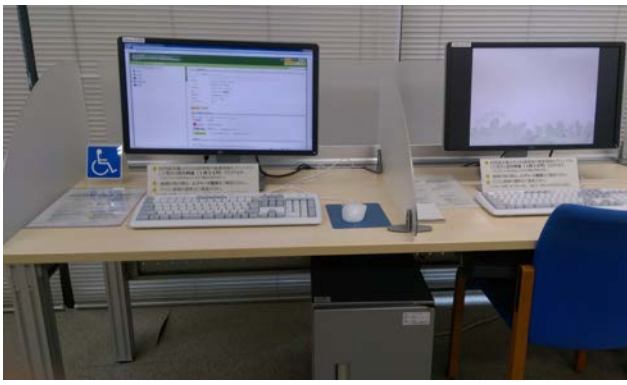
松本岡子小姐導覽解說(1)



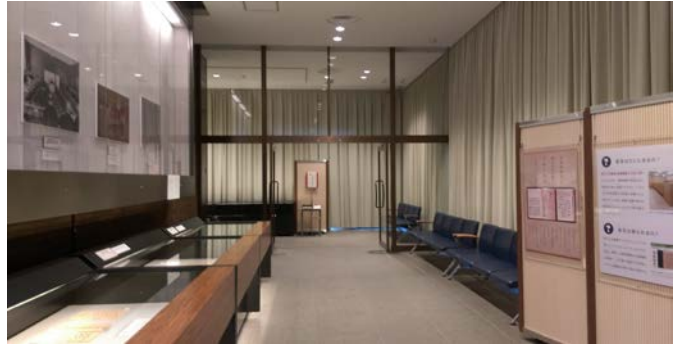
松本岡子小姐導覽解說(2)



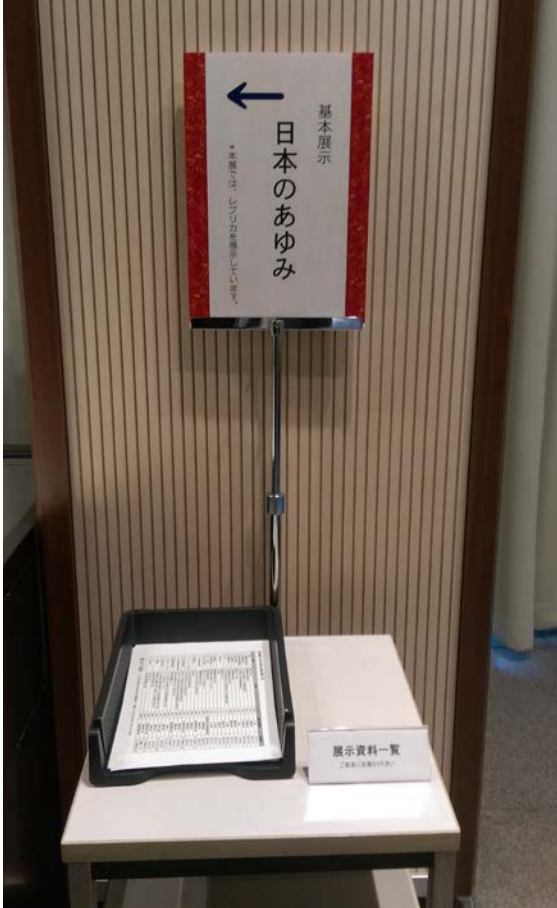
本局參訪人員與解說人員合影



日本國立公文書館資查詢系統-身障者專用



日本國立公文書館展覽區



日本國立公文書館閱覽室



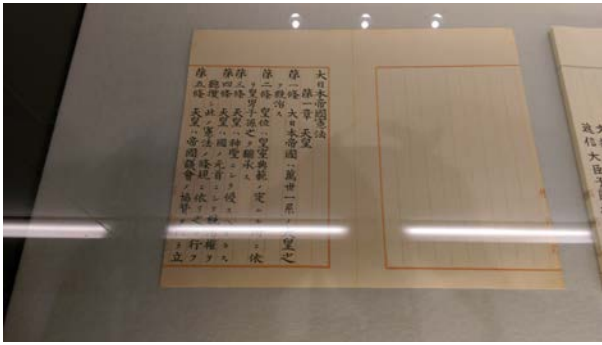
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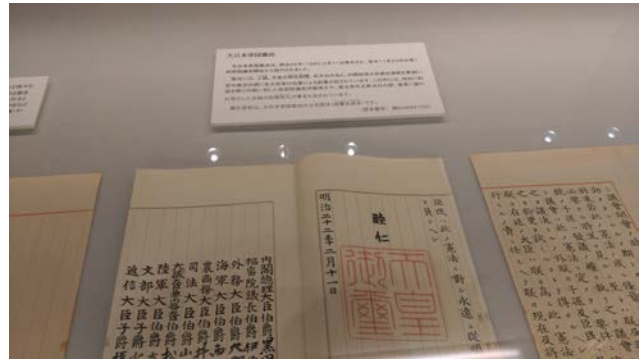
日本國立公文書館展件(1)-終戰的詔書



日本國立公文書館展件(2)-終戰的詔書



日本國立公文書館展件(3)-大日本帝國憲法



日本國立公文書館展件(4)-大日本帝國憲法



日本國立公文書館展件(5)-憲法發布式



日本國立公文書館展件(6)-修復前後對照



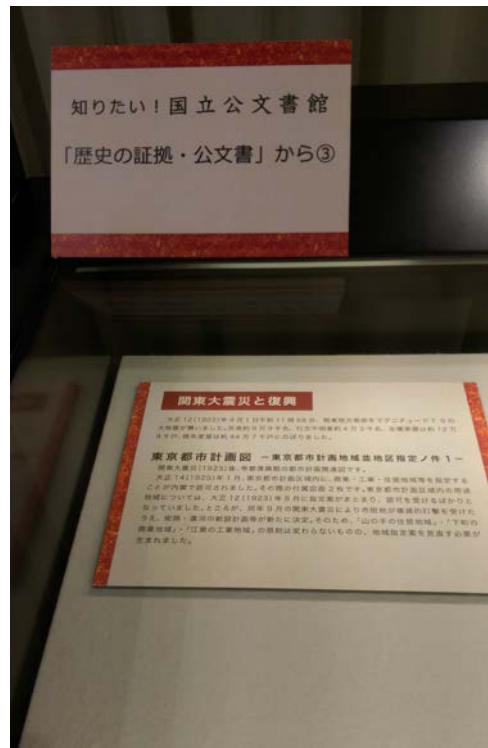
日本國立公文書館 1 樓展廳入口處看板



日本國立公文書館特別展展示目錄



日本國立公文書館1樓展區壁掛展件



日本國立公文書館1樓展區櫥櫃展件

由於本局此次日本國立公文書館的拜訪行程，該館亞洲資料中心資料情報專門官松尾弘子小姐及研究員大野太幹先生於104.06.25回訪本局。以下為其來訪照片。



張副局長致贈本局文宣品



由本局張副局長主持訪談會議



於本局1樓展覽區參觀留影



於本局1樓展覽區參觀留影

第五章 結論與建議

繼 2014 年在泰國舉辦之密碼學與安全國際年會，今(2015)年在日本的年會，為本局持續 2 年派員參加之國際年會，與前屆同仁參與研討會經驗相較，今年所探討資訊安全、密碼學相關之雲端運算安全、行動裝置管理、數位鑑識應用、網路安全及電子檔案管理等相關議題，相對少了一些。本次研討會並非專屬資訊安全與密碼學之單一性質研討會，而是綜合各領域研究成果的發表會，其議題範疇甚為廣泛，諸如社會議題之組織發展、組織變革、績效管理、人力資源管理、社會網絡分析、遊戲策略、隔代教養、領導者人格發展、敬業度影響、五大避稅國家、金融危機等；醫療議題之心理健康、老年照護、醫療資源、風濕性疾病、C 型肝炎、行為與肥胖、老年失智、代謝性疾病、遺傳分析、腫瘤用藥與抗氧化、抗過敏等、環保議題如氣候變遷、水資源管理、水資源政策、水淨化、水文分析、降雨分析、節電、減少家庭垃圾、空氣污染、地下水處理、土壤侵蝕潛、土壤潛在污染與重金屬、地震海嘯等；工業議題之機械廠房設施佈局、建築技術、玻璃陶瓷磨邊加工技術、自然通風煙囪效能、電源控制等；物理化學議題如鋁合金摩擦、磁性和力學性能、伽瑪輻照效應、氧化石墨烯裝配的微觀結構、銅錳鉻催化劑等，農業議題如有機農業、水稻品種萌發等；教育議題如青少年拒絕與心理調適、初中生行為預測、兒童行為評量、大學生自尊心與社會壓力、解夢有效性、認知障礙等；人文議題如建築遺產、跨文化比較、文化距離、文化遺產認知等。

經由本次參加研討會發現，部分國家的研究議題，針對中國大陸，如「中國遊客在曼谷的旅遊購物行為」、「文化距離的影響和對外國直接投資選擇的制度：以土耳其和中國為證據」，而在日本參訪與研討會期間，無論於電車、街道商店或研討會場飯店，處處可見許多中國簡體字，較之筆者 10 年前日本行，非日語行不通的景象，顯有極大差異，足見中國大陸之崛起，身處臺灣之中華民國，絕不能輕忽。謹以本次參訪日本國立公文書館及參與國際研討會經驗，對本局文檔資訊業務提出 3 點建議：

一、應持續參與相關國際會議

隨著資訊科技不斷躍進，資訊人員應學習的領域知識日增，所謂不進則退，因此必須經常接觸相關的研究發展，藉由參與國際研討會，堪稱與國際接軌、吸取新知與技術的絕佳管道。在本次研討會發現，其實國內學術研究機構也有很多的研

究，值得我們進一步瞭解，並可探討學術與政府部門是否有合作機會。縱使本次國際研討會所發表之論文，與原定密碼學相關議題之論文篇數較少，惟藉由其他主題論文之參與，還是有預期之外的收穫。過往本局亦主辦多次電子檔案管理相關議題之研討會，在整體經費有限情況下，本局也可考量邀請國內外學術機構或實務機關之專家學者，召開小型研討會，讓參與者得以充分討論、暢所表達觀點與論述，無需每次都以廣邀機關派員方式辦理，不僅可大幅縮減經費支出，又能獲得較具體的研討成果，或許對於非本國的出席者(觀眾)，可考量採適度的收費機制。

二、參訪國外機關仍屬必要

雖然本次參訪日本國立公文書館未能進入該館典藏庫房或看到核心作業區域，惟從其展廳及閱覽室樸實無華、整齊清潔的佈置，略可窺見該機構(目前為法人化機構)之嚴謹。所到之處、所見之人均為輕聲細語，經由本次的拜訪，結識該館亞洲歷史資料中心資料情報專門官松尾弘子小姐及研究員大野太幹先生，二位即利用參加本年6月22日至24日中央研究院舉辦之研討會的機會，旋於6月25日下午來局參訪，同時經由我國駐日本代表處之居中協助，希望可以建立雙方長期合作機會，諸如輪流舉辦研討會、互派人員交流訪問實習等。

三、擴展及建立友好合作夥伴關係

本局歷經行政院組織改造後，自行政院研究發展考核委員會改隸至國家發展委員會，組織職掌增列行政院與所屬各機關公文時效管制之規劃及推動、文書與檔案管理資訊系統之規劃及協調推動，原檔案資訊組更名為文書檔案資訊組，是以自101年起開始承接公文電子交換系統、文書編輯製作、基層公文管理系統等及研提節能減紙續階方案，並持續辦理各項推動作業，諸如電子會議、公文線上簽核、跨機關陳核會稿及行動簽核等業務，該等文件檔案之編輯製作、傳遞轉送、儲存管理，均與資訊系統之處理及資訊安全有密切關係。藉由參與國際研討會之機，可以廣泛接觸其他國家之相關學者專家，擴展國際人脈。此外，藉由參訪國外機關，相互交流，進而選定目標，強化接觸，也許有機會締結姐妹關係，建立長期友好合作夥伴，彼此分享電子檔案保存管理技術之研發成果，互謀利基。

附錄一 2015 年國際資訊安全與加密技術研討會議程表

2015 : 17th International Conference on Information Security and Cryptology

Program Chair

Prof. Dr. Eric Goh

Universiti Sains Malaysia,

MY CONFERENCE REGISTRATION

May 28, 2015 from 07:30 to 11:00

May 29, 2015 from 07:30 to 11:00

HALL A

Session I - May 28, 2015 Room : A 08:00-10:20

Coffee Break : 10:20 - 10:35

Chair: Isaac Gbadura Adanlawo, Aisha Muhammad Gadanya

篇名	作者
[Keynote Talk]: World Class Higher Education and Academic Accreditation	Eric Goh Universiti Sains Malaysia, Malaysia
The Biomechanics Analysis of Single-Thread and Multiple-Thread Dental Implant	Hung-Chih Chang, Chau-Hsiang Wang, Chih-Han Chang, Hung Wei-Ching, Hung-Yuan Li National Cheng Kung University, Taiwan
Influence of Stress Relaxation and Hysteresis Effect for Pressure Garment Design	Chia-Wen Yeh, Ting-Sheng Lin, Chih-Han Chang National Cheng Kung University, Taiwan
Anti-inflammatory and Antioxidant Activity of Heliotropium indicum Linn. Used for Cancer Patients Treatment	Jitpisute Chunthong-Orn, Thana Juckmeta, Onmanee Prajuabjinda, Arunporn Itharat Thammasat University, Thailand

篇名	作者
	(e-Poster)
Saponins from the Fruits of <i>Solanum anguivi</i> Reverse Hyperglycemia, Hyperlipidemia and Increase Antioxidant Status in Streptozotocin Induced Diabetic Rats	Isaac Gbadura Adanlawo, Olusola Olalekan Elekofehinti Ekitit State University, Nigeria (e-Poster)
The Anti-allergic Activity of Prasaproyai Preparation Extract After Accelerated Stability Testing	Sunita Makchuchit, Arunporn Itharat Thammasat University, Thailand (e-Poster)
Cytotoxicity of Flavonoid Compounds from <i>Smilax corbularia</i> Kunth Against Cholangiocarcinoma Cell Line	Pakakrong Thongdeeying, Srisopa Ruangnoo, Arunporn Itharat Thammasat University, Thailand (e-Poster)
Cytotoxic Activity of <i>Parkia javanica</i> Merr. and <i>Parkia speciosa</i> Hassk. Against Human Cancer Cell Lines	Srisopa Ruangnoo, Arunporn Itharat Thammasat University, Thailand (e-Poster)
Regulation of Apoptosis in Human Lung Cancer NCI-H226 Cells through Caspase - Dependent Mechanism by Benjakul Extract	Pintusorn Hansakul, Ruchilak Rattarom, Arunporn Itharat Thammasat University, Thailand (e-Poster)
Cytotoxic Activity against Hepatocarcinoma and Cholangiocarcinoma Cells of Four Cathartic Herbal Medicines	Pranporn Kuropakornpong, Srisopa Ruangnoo, Arunporn Itharat Thammasat University, Thailand (e-Poster)
In Vitro Antioxidant and Cytotoxic Activities Against Human Oral Cancer and Human Laryngeal Cancer of <i>Limonia acidissima</i> L. Bark Extracts	Kriyapa Iairungruang, Arunporn Itharat Thammasat University, Thailand (e-Poster)

篇名	作者
Marketing and Pharmaceutical Analysis of Medical Cosmetics in Bulgaria and Japan	V. Petkova, V. Valchanova, D. Grekova, K. Andreevska, S. T. Geurguiev, V. Madgarov, D. Grekov Faculty of Pharmacy, Medical University - Sofia, Bulgaria (e-Poster)
Biodegradable Polymeric Vesicles Containing Magnetic Nanoparticles, Quantum Dots and Anticancer Drugs for Drug Delivery and Imaging	Fei Ye, Åsa Barrefelt, Manuchehr Abedi-Valugerdi, Khalid M. Abu-Salah, Salman A. Alrokayan, Mamoun Muhammed, Moustapha Hassan King Abdullah Intrnational Medical Research Center, Saudi Arabia (e-Poster)
Inhibitory Effect on TNF-Alpha Release of Dioscorea membranacea and Its Compounds	Arunporn Itharat, Srisopa Ruangnoo, Pakakrong Thongdeeying Faculty of Medicine, Thammasat University, Thailand (e-Poster)
Anti-Allergic Activities of Smilax Glabra Rhizome Extracts and Its Isolated Compounds	Arunporn Itharat, Kamonmas Srikwan, Srisopa Ruangnoo, Pakakrong Thongdeeying Faculty of Medicine, Thammasat University, Thailand (e-Poster)

HALL A

Session II - May 28, 2015 Room : A 10:35-13:30

Lunch Break : 13:30

Chair: Md Kamal Uddin, Ni Yang

篇名	作者
Effect of Oral Administration of "Gadagi" Tea on Activities of Some Antioxidant Enzymes in Rats	A. M. Gadanya, M. S. Sule Bayero University Kano, Nigeria
Effect of Oral Administration of "Gadagi" Tea on Superoxide Dismutase Activity in Humans	A. M. Gadanya, B. A. Ahmad, U. Maigatari Bayero University Kano, Nigeria
Phyllanthus nuriri Protect against Fe ²⁺ and SNP Induced Oxidative Damage in Mitochondrial Rich Fractions of Rats Brain	Wei-Ting Kuo, Feng-Huei Lin National Taiwan University, Taiwan (e-Poster)
A Platform to Screen Targeting Molecules of Ligand-EGFR Interactions	Wei-Ting Kuo, Feng-Huei Lin National Taiwan University, Taiwan (e-Poster)
Associations of the FTO Gene Polymorphism with Obesity and Metabolic Syndrome in Lithuanian Adult Population	Alina Smalinskiene Janina Petkeviciene, Jurate Klumbiene, Vilma Kriaucioniene, Vaiva Lesauskaite Lithuanian University of Health Science, Lithuania (e-Poster)
Antimutagenic Activity of a Protein, Lectin Fraction from Urtica Dioica L.	Nijole Savickiene, Antonella Di Sotto, Gabriela Mazzanti, Rasa Starselskyte, Silvia Di Giacomo,

篇名	作者
	Annabella Vitalone Lithuanian University of Health sciences, Lithuania (e-Poster)
Salinity Effects on Germination of Malaysian Rice Varieties and Weedy Rice Biotypes	Md Kamal Uddin, Hj Mohd Dandan, Ame Hj Alidin Universiti Malaysia Sabah, Malaysia
Analysis of a Lignocellulose Degrading Microbial Consortium to Enhance the Anaerobic Digestion of Rice Straws	Supanun Kangrang, Kraipat Cheenkachorn, Kittiphong Rattanaporn, Malinee Sriariyanun King Mongkut's University of Technology, Thailand
Optimization of Diluted Organic Acid Pretreatment on Rice Straw Using Response Surface Methodology	Rotchanaphan Hengaroonprasan, Malinee Sriariyanun, Prapakorn Tantayotai, Supacharee Roddecha, Kraipat Cheenkachorn King Mongkut's University of Technology, Thailand
Selection of <i>Pichia kudriavzevii</i> Strain for the Production of Single-Cell Protein from Cassava Processing Waste	Phakamas Rachamontree, Theerawut Phusantisampan, Natthakorn Woravutthikul, Peerapong Pornwongthong, Malinee Sriariyanun King Mongkut's University of Technology, Thailand (e-Poster)
Effect of Aqueous Enzymatic Extraction Parameters on the <i>Moringa oleifera</i> Oil Yield and Formation of Emulsion	Masni Mat Yusoff, Michael H. Gordon, Keshavan Niranjana University of Reading, United Kingdom

篇名	作者
Impact of Flavor on Food Product Quality, A Case Study of Vanillin Stability during Biscuit Preparation	N. Yang, R. Linforth, I. Fisk University of Nottingham, United Kingdom
Effect on Nutritional and Antioxidant Properties of Yellow Alkaline Noodles Substituted with Different Levels of Mangosteen (<i>Garcinia Mangostana</i>) Pericarp Powder	Mardiana Ahamad Zabidi, Nurain Abdul Karim, Nur Shazrinna Sazali Universiti Teknologi Mara, Malaysia
Genetic Analysis of the Endangered Mangrove Species <i>Avicennia Marina</i> in Qatar Detected by Inter-Simple Sequence Repeat DNA Markers	Talaat Ahmed, Amna Babssail Qatar University, Qatar
Mitochondrial Energy Utilization is Unchanged with Age in the Trophocytes and Oenocytes of Queen Honeybees (<i>Apis mellifera</i>)	Chia-Ying Yen, Chin-Yuan Hsu Chang Gung University, Taiwan (e-Poster)
Cellular Degradation Activity is Activated by Ambient Temperature Reduction in an Annual Fish (<i>Nothobranchius rachovii</i>)	Cheng-Yen Lu, Chin-Yuan Hsu Chung Gung university, Taiwan (e-Poster)
Screening of Indigenous Rhizobacteria for Growth Promoting and Antagonistic Activity against <i>Fusarium Oxysporum</i> in Tomato	Mohammed H. Abu-Dieyeh, Mohammad M. Zalloum Qatar University, Qatar

HALL B

Session III - May 28, 2015 Room : A 08:00-10:00

Coffee Break : 10:00 - 10:15

Chair: Tung Liang Liao, Mei-Chu Ke, Shu-Hui Chuang, Chiung-Yao Huang

篇名	作者
Testing the Value and Momentum Strategies with SD Approach	Tung Liang Liao, Chuan-Hao Hsu, Kuan-Ting Li Feng Chia University, Taiwan
The Impact of Financial Crisis on Different Types of Investors: Evidence from the Taiwan Stock Exchange	Mei-Chu Ke, Ming-Hui Wang National Chin-Yi University of Technology, Taiwan
Governance Structure of Islamic Philanthropic Institution: Analysis of Corporate WAQF in Malaysia	Nathasa Mazna Ramli, Nurul Husna Mohd Salleh, Nurul Aini Muhamed Universiti Sains Islam Malaysia, Malaysia
Managing Information Technology: An Overview of Information Technology Governance	Mehdi Asgarkhani CPIT New Zealand, New Zealand
Authentic Leadership, Task Performance, and Organizational Citizenship Behavior	C. V. Chen, Y. H. Jeng, S. J. Wang National Central University, Taiwan
Empirical Study on the Organizational Role Stress and its Effect on Private and Government Sector Employees	Rashmi Shahu RCOEM, India
The Impact of Market Orientation on the Adoption of E-Marketing and Value Co-Creation	Shu-Hui Chuang, Shao-Chun Chiu, Shu-Hsin Chuang Asia University, Taiwan (e-Poster)
The Impact of Environmental Corporate	Chiung-Yao Huang, Yu-Cheng Lin,

篇名	作者
Social Responsibility (ECSR) and the Perceived Moral Intensity on the Intention of Ethical Investment	Chiung-Hui Chen National Yunlin University of Science & Technology, Taiwan (e-Poster)
The Approach to Develop Value Chain to Enhance the Management Efficiency of Thai Tour Operators in Order to Support Free Trade within the Framework of ASEAN Cooperation	Yalisa Tonsorn Suan Dusit Rajabhat University, Thailand
The Performance Of Emotion Management Within The Thai Spa Industry	Winayaporn Bhranmanachote, Adelina Broadbridge University of Stirling, United Kingdom
Discussion of Leadership Styles and Performance Management in MNEs	Yin-Tsuo Huang Toko University, Taiwan

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Session IV - May 28, 2015 Room : A 10:15-13:30

Lunch Break : 13:30

Chair: Zainal Abu Zarim, A. K. M. Ahasanul Haque

篇名	作者
International Tourism Demand of Thailand: The ARDL Approach to Cointegration	Anothai Harasarn, Surachai Chancharat Khon Kaen, Thailand
An Examination of Thai Tourists' Motivation Behavior and Perception of Cultural Heritage in Chiang Mai Province	Sujui Yang, Peeraya Somsak, Markus Blut Ramkhamhaeng University, Thailand
The Capacity Building in the Natural	Eakarat Boonreang

篇名	作者
Disaster Management of Thailand	National Institute of Development Administration, Thailand
The Effects of Cultural Distance and Institutions on Foreign Direct Investment Choices: Evidence from Turkey and China	Nihal Kartaltepe Behram, Göksel Ataman, Dila Okçu Marmara University, Turkey
Key Success Factors for Malaysian SMES Companies' Entrepreneurial Leader	Zainal Abu Zarim, Hafizah Omar Zaki Multimedia University, Malaysia
Influence of Organizational Context and Follower's Disposition on Effectiveness of Transformational Leadership	Jessie Ho Hong Kong Polytechnic University, Hong Kong (e-Poster)
Managerial Leadership Styles of Deans in Indonesian Universities	Jenny Ngo, Harry De Boer, Jurgen Enders Sekolah Tinggi Teknik Surabaya, Indonesia
Towards Innovation Performance among University Staff	Cheng Sim Quah, Sandra Phek Lin Sim Institute Aminuddin Baki, Malaysia
How to Affect Brand Attitude with Authenticity in Advertising	Tang, Yun-Chia, Chiu, Hung-Chang National Tsing Hua University, Taiwan
The Role of Brand Loyalty in Generating Positive Word of Mouth among Malaysian Hypermarket Customers	S. R. Nikhashemi, Laily Haj Paim, Ali Khatibi Business School, Department of Marketing, Sunway University, Malaysia
Gamification as a Tool for Influencing Customers' Behaviour	Beata Zatwarnicka-Madura University of Technology, Poland (e-Poster)

篇名	作者
Using Facebook as an Alternative Learning Tools in Malaysian Higher Learning Institutions: A Structural Equation Modelling Approach	Ahasanul Haque, Abdullah Sarwar, Khaliq Ahmed International Islamic University Malaysia, Malaysia
Choosing between the Regression Correlation, the Rank Correlation, and the Correlation Curve	Roger L. Goodwin US Government Printing Office, United States
Modernization of the Economic Price Adjustment Software	Roger L. Goodwin US Government Printing Office, United States
Real Options and Probability Distributions	Linda Peters University of Antwerp, Belgium
Investigating Dynamic Transition Process of Issues Using Unstructured Text Analysis	Myungsu Lim, William Xiu Shun Wong, Yoonjin Hyun, Chen Liu, Seongi Choi, Dasom Kim, Namgyu Kim Kookmin University, Korea, Republic Of

HALL C

Session V - May 28, 2015 Room : A 08:00-10:15

Coffee Break : 10:15 - 10:30

Chair: Sunantha Teyarachakul, Alan Lin

篇名	作者
Symbiotic Organism Search (SOS) for Solving the Capacitated Vehicle Routing Problem	Eki Ruskartina, Vincent F. Yu, Budi Santosa, A. A. N. Perwira Redi National Taiwan University of Science and Technology, Taiwan
The Optimal Order Policy for the Newsvendor Model under Worker Learning	Sunantha Teyarachakul MacEwan University, Canada
Predicting Medical Check-Up Patient Re-Coming Using Sequential Pattern Mining and Association Rules	Rizka Aisha Rahmi Hariadi, Chao Ou-Yang, Han-Cheng Wang, Rajesri Govindaraju National Taiwan University of Science and Technology, Taiwan
A Strategic Performance Control System for Municipal Organization	Emin Gundogar, Aysegul Yilmaz Sakarya University, Turkey
A Study of Quality Assurance and Unit Verification Methods in Safety Critical Environment	Miklos Taliga Budapest University of Technology and Economic, Hungary
Layered Fiberconcrete Element Building Technology and Strength	Vitalijs Lusis, Videvuds-Arijs Lapsa, Olga Kononova, Andrejs Krasnikovs Riga Technical University, Latvia (e-Poster)
Eliminating Cutter-Path Deviation For Five-Axis Nc Machining	Alan C. Lin, Tsong Der Lin National Taiwan University of Science and Technology, Taiwan

篇名	作者
Nonlinear modeling of the PEMFC based on NNARX approach	Shan-Jen Cheng, Te-Jen Chang, Kuang-Hsiung Tan, Shou-Ling Kuo Army Academy R.O.C, Taiwan
A Performance Analysis Study for Cloud Based ERP Systems	Burak ErKayman Ataturk University, Turkey
Cyclostationary Gaussian Linearization for Analyzing Nonlinear System Response Under Sinusoidal Signal and White Noise Excitation	R. J. Chang National Cheng Kung University, Taiwan

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Session VI - May 28, 2015 Room : A 10:30-13:30

Lunch Break : 13:30

Chair: Md Mizanur Rahman, Rong Liu

篇名	作者
Three Dimensional Large Eddy Simulation of Blood Flow and Deformation in an Elastic Constricted Artery	Xi Gu, Guan Heng Yeoh, Victoria Timchenko The University of New South Wales, Australia
Experimental Investigation on the Optimal Operating Frequency of a Thermoacoustic Refrigerator	Kriengkrai Assawamartbunlue, Channarong Wantha Kasetsart University, Thailand
Experimental Study to Determine the Effect of Wire Mesh Pore Size on Natural Draft Chimney Performance	Md. Mizanur Rahman, Chu Chi Ming, Mohd Suffian Bin Misaran University Malaysia Sabah, Malaysia
Simulation Studies of Solid-Particle and Liquid-Drop Erosion of NiAl Alloy	Rong Liu, Kuiying Chen, Ju Chen, Jingrong Zhao, Ming Liang

篇名	作者
	Carleton University, Canada
Machining Stability of a Milling Machine with Different Preloaded Spindle	Jui-Pin Hung, Qiao-Wen Chang, Kung-Da Wu, Yong-Run Chen National Chin-Yi University of Technology, Taiwan
Application of Ultrasonic Assisted Machining Technique for Glass-Ceramic Milling	S. Y. Lin, C. H. Kuan, C. H. She, W. T. Wang National Formosa University, Taiwan (e-Poster)
The Design of Acoustic Horns for Ultrasonic Aided Tube Double Side Flange Making	Kuen-Ming Shu, Jyun-Wei Chen National Formosa University, Taiwan (e-Poster)
Electrical Characteristics of SiON/GaAs MOS Capacitor with Various Passivations	Ming-Kwei Lee, Chih-Feng Yen MingDao University, Taiwan (e-Poster)
Corrosion Monitoring of Weathering Steel in a Simulated Coastal-Industrial Environment	Thee Chowwanonthapunya, Junhua Dong, Wei Ke Burapha University, Thailand
Ferrites of the MeFe ₂ O ₄ System (Me = Zn, Cu, Cd) and Their Two Faces	B. S. Boyanov, A. B. Peltekov, K. I. Ivanov University of Plovdiv, Bulgaria (e-Poster)
The Study of Magnetic and Transport Properties in Normal State Eu _{1.85+y} Ce _{0.15-y} Cu _{1-y} FeyO ₄ + α - δ	Risdiana, D. Suhendar, S. Pratiwi, W. A. Somantri, T. Saragi Padjadjaran University, Indonesia
An EBSD Investigation of Ti-6Al-4Nb Alloy	Anna Jastrzebska, K.S. Suresh, T.

篇名	作者
Processed by Plan Strain Compression Test	Kitashima, Y. Yamabe-Mitarai, Z. Pakiela Warsaw University of Technology, Poland
Effect of Rare Earth Elements on Liquidity and Mechanical Properties of Phase Formation Reaction Change in Cast Iron by Cooling Curve Analysis	S. Y. Park, S. M. Lee, S. H. Lee, K. M. Lim Korea Institute of Industrial Technology, Korea, Republic Of
Evaluation of tribological performance of aged and unaged biodiesel	Yuan-Ching Lin, Tian-Yi Huang, Ming-Jhe Hsieh National Taiwan University of Science and Technology, Taiwan (e-Poster)
Tribological Study of TiC Powder Cladding on 6061 Aluminum Alloy	Yuan-Ching Lin, Sin-Yu Chen, Pei-Yu Wu National Taiwan University of Science and Technology, Taiwan (e-Poster)
A Study on the Magnetic and Mechanical Properties of Nd-Fe-B Sintered Magnets According to Sintering Temperature	J. H. Kim, S. Y. Park, K. M. Lim, S. K. Hyun InHa University, Korea, Republic Of (e-Poster)
Gamma Irradiation Effect on Structural and Optical Properties of Bismuth-Boro-Tellurite Glasses	Azuraida Amat, Halimah Mohamed Kamari, Che Azurahaman Che Abdullah, Ishak Mansor Universiti Putra Malaysia, Malaysia

HALL A

Session VII - May 29, 2015 Room : A 08:00-10:30

Coffee Break : 10:30 - 10:45

Chair: Chien Chon Chen, Yi-Feng Lin

篇名	作者
The TiO ₂ Refraction Film for CsI Scintillator	C. C. Chen, C. W. Hun, C. J. Wang, C. Y. Chen, J. S. Lin, K. J. Huang National United University, Taiwan
Comparison of Processing Conditions for Plasticized PVC and PVB	Michael Tupý, Jaroslav Císař, Pavel Mokrejš, Dagmar Měřínská, Alice Tesaříková-Svobodová Brno University of Technology, Faculty of Civil Engineering, Czech Republic
The Catalytic Activity of Cu ₂ O Microparticles	Kanda Wongwailikhit Rangsit University, Thailand
The Different Roles between Sodium and Potassium Ions in Ion Exchange of WO ₃ /SiO ₂ Catalysts	Kritsada Pipitthapan Chulalongkorn University, Thailand
Alumina Supported Cu-Mn-Cr Catalysts for CO and VOCs oxidation	Krasimir Ivanov, Elitsa Kolentsova, Dimitar Dimitrov, Petya Petrova, Tatyana Tabakova Agricultural University, Bulgaria (e-Poster)
Influence of MgO Physically Mixed with Tungsten Oxide Supported Silica Catalyst on Coke Formation	Thidaya Thitiapichart Chulalongkorn University, Thailand
Kinetic Study of 1-Butene Isomerization over Hydrotalcite Catalyst	Sirada Sripinun Chulalongkorn University, Thailand

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The Effect of Aging of ZnO, AZO, and GZO films on the Microstructure and Photoelectric Property	Zue-Chin Chang National Chin-Yi University of Technology, Taiwan
Water-Repellent Mesoporous Aerogel and Macroporous Nanofibrous Membranes for CO ₂ Capture in Membrane Contactor	Yi-Feng Lin Chung Yuan University, Taiwan
Hydrothermal Synthesis of ZIF-7 Crystals and Their Composite ZIF-7/CS Membranes for Water/Ethanol Separation	Kai-Sheng Ji, Yi-Feng Lin Chung Yuan Christian University, Taiwan (e-Poster)
Preparation of Ceramic Hollow Fiber Membranes for CO ₂ Capture	Kai-Wei Huang, Yi-Feng Lin Chung Yuan Christian University, Taiwan (e-Poster)
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Effect of Microstructure of Graphene Oxide Fabricated through Different Self-Assembly Techniques on Alcohol Dehydration	Wei-Song Hung Chung Yuan University, Taiwan (e-Poster)

HALL A

Session VIII - May 29, 2015 Room : A 10:45-13:30

Lunch Break : 13:30

Chair: Ruichong Zhang, Ashok Tejankar

篇名	作者
Preliminary Seismic Hazard Mapping of Papua New Guinea	Hadi Ghasemi, Mark Leonard, Spiliopoulos Spiro, Phil Cummins, Mathew Moihoi, Felix Taranu, Eric Buri, Chris Mckee Geoscience Australia, Australia
Bond-Slip Response of Reinforcing Bars Embedded in High Performance Fiber Reinforced Cement Composites	Lee Siong Wee, Tan Kang Hai, Yang En-Hua Nanyang Technological University, Singapore
Designing Offshore Pipelines Facing the Geohazard of Active Seismic Faults	Maria Trimintziou, Michael Sakellariou, Prodromos Psarropoulos National Technical University of Athens, Greece
Quantification of Site Nonlinearity Based on HHT Analysis of Seismic Recordings	Ruichong Zhang Colorado School of Mines, United States
Fast Algorithm to Determine Initial Tsunami Wave Shape at Source	Alexander P. Vazhenin, Mikhail M. Lavrentiev, Alexey A. Romanenko, Pavel V. Tatarintsev University of Aizu, Japan
The Impact of Passive Design Factors on House Energy Efficiency for New Cities in	Mahmoud Mourad, Ahmad Hamza H. Ali, S.Ookawara, Ali Kamel Abdel-Rahman,

篇名	作者
Egypt	Nady M. Abdelkariem Egypt-Japan University of Science and Technology, Egypt
Comparison of Chemical Coagulation and Electrocoagulation for Boron Removal from Synthetic Wastewater Using Aluminum	Kartikaningsih Danis, Yao Hui Huang National Cheng Kung University, Taiwan
Effect of Infill Walls on Response of Multi Storey Reinforced Concrete Structure	Ayman Abd-Elhamed, Sayed Mahmoud Helwan University, Egypt
Potential of Lavender (<i>Lavandula vera</i> L.) for Phytoremediation of Soils Contaminated with Heavy Metals	Violina Angelova, Dimitar Grekov, Veselin Kisjov, Krasimir Ivanov Agricultural University, Bulgaria (e-Poster)
Water Management of Erdenet Mining Company	K. H. Oyuntungalag, Scott Kenner, O. Erdenetuya Research Center of Erdenet Mining Company, Mongolia
Role of Geohydrology in Groundwater Management-Case Study of Pachod Village, Maharashtra, India	Ashok Tejankar, Rohan K. Pathrikar Deogiri College Aurangabad, India
Anthropogenic Impact on Surface and Groundwaters Quality in the Western Part of the River Nile, Elsaff Village, Giza	Mohamed Elkashouty, Mohamed Yehia, Ahmed Tawfuk Cairo University, Egypt

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Session IX - May 29, 2015 Room : A 08:00-10:30

Coffee Break : 10:30 - 10:45

Chair: Gu Pang, Tai Mei Kin

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Challenges in Anti-Counterfeiting of Cyber-Physical Systems	Daniel Kliewe, Arno Kühn, Roman Dumitrescu, Jürgen Gausemeier Fraunhofer Institute for Production Technology IPT, Project Group Mechatronic Systems Design, Germany
Alignment of CTOs: A Systematic Literature Review	The Roles, Strategic Coordination, and Shailendra Natraj, Kristin Paetzold, B. R. Katzy University der Bundeswehr, Munich, Germany
Forecasting Container Throughput: Using Aggregate or Terminal-Specific Data?	Gu Pang, Bartosz Gebka Newcastle University, United Kingdom
Developing the Principal Change Leadership Non-Technical Competencies Scale: An Exploratory Factor Analysis	Tai Mei Kin, Omar Abdull Kareem Institute Aminuddin Baki, Malaysia
The Applications of Toyota Production System to Reduce Wastes in Agricultural	P. Larpsomboonchai Suan Dusit University, Thailand

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Products Packing Process: A Study of Onion Packing Plant	(e-Poster)
Impacts of Financial Development and Operational Scale on Bank Efficiencies in Taiwan	Ying-Hsiu Chen, Pao-Peng Hsu Yuanpei University of Medical Technology, Taiwan (e-Poster)
Electroencephalography Activity during Sensory Organization Balance Test	Tariq Ali Gujar, Anita Hökelmann Otto-von-Guericke University Magdeburg, Germany
Chinese Tourists 's Behaviors towards Travel and Shopping in Bangkok	Sasitorn Chetanont Suan Sunandha Rajabhat University, Thailand
Behavior and Obesity: The Perception of Healthcare Professionals Concerning the Role of Behavior on Obesity	Saeed Wahass College of Medicine, Dammam University, Saudi Arabia
Development of an Integrated Criminogenic Intervention Programme for High Risk Offenders	Yunfan Jiang Singapore Prison Service, Singapore
Gift Economy: Neighbour Effects in Giving	Zamira Noh, Paul Goddard, Patrick Hylton, Adrian Parke University of Lincoln, United Kingdom

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Session X - May 29, 2015 Room : A 10:45-13:30

Lunch Break : 13:30

Chair: Célia Barreto Carvalho

篇名	作者
Should a Leader Focus on Issues or	Li-Fang Chou, Sung-Chun Tsai,

篇名	作者
Personal Character?	Chun-Jung Tseng National Cheng Kung University, Taiwan
Hallucinatory Activity in Schizophrenia: The Relationship with Childhood Memories, Submissive Behavior, Social Comparison, and Depression	Célia Barreto Carvalho, Carolina da Motta, José Pinto-Gouveia, Ermelindo Bernardo Peixoto University of Azores, Portugal
Characterization and Predictors of Community Integration of People with Psychiatric Problems: Comparisons with the General Population	J. Cabral, C. Barreto Carvalho, C. da Motta, M. Sousa Universidade of Azores, Portugal
Development and Validation of the Response to Stressful Situations Scale in the General Population	Célia Barreto Carvalho, Carolina da Motta, Marina Sousa, Joana Cabral, Ana Luísa Carvalho, Ermelindo Peixoto University of Azores, Portugal
Characterization and Predictors of Paranoid Ideation in Youths	Marina Sousa, Célia Barreto Carvalho, Carolina da Motta, Joana Cabral, Vera Pereira, Suzana Nunes Caldeira, Ermelindo Peixoto University of Azores, Portugal
Functional Dyspepsia & Irritable Bowel Syndrome: Life sketches of Functional Illnesses (Non-Organic) in West Bengal, India	Urmita Chakraborty H. M. M. College for Women, Kolkata, India
What Is the Matter of Identity to Leadership Behavior: Leader-Subordinate Relational Identity and Paternalistic	Sung-Chun Tsai, Li-Fang Chou, Chun-Jung Tseng School of Continuing Education

篇名	作者
Leadership	Chinese Culture University, Taiwan
Predictive Factors of Exercise Behaviors of Junior High School Students in Chonburi Province	Tanida Julvanichpong Burapha University, Thailand (e-Poster)
Self-Esteem on University Students by Gender and Branch of Study	Antonio Casero Martínez, María de Lluç Rayo Llinas Universidad de las Islas Baleares, Spain (e-Poster)
Spatial Working Memory Is Enhanced by the Differential Outcome Procedure in a Group of Participants with Mild Cognitive Impairment	Ana B. Vivas, Antonia Ypsilanti, Aristeia I. Ladas, Angeles F. Estevez University of Sheffield International Faculty, Greece (e-Poster)
Diagnostic Contribution of the MMSE-2:EV in the Detection and Monitoring of the Cognitive Impairment: Case Studies	Cornelia-Eugenia Munteanu The Medical Centre of Diagnosis and Treatment, Romania (e-Poster)
The Role of Team Efficacy and Coaching on the Relationships between Distributive and Procedural Justice and Job Engagement	Yoonhee Cho, Gye-Hoon Hong Ewha Womans University, Korea, Republic Of (e-Poster)
The Development of the Self-concept Scale for Elders in Taiwan	Ting-Chia Lien, Tzu-Yin Yen, Szu-Fan Chen, Tai-chun Kuo, Hung-Tse Lin, Yi-Chen Chung, Hock-Sen Gwee National University of Tainan, Taiwan (e-Poster)

篇名	作者
Dream Work: Examining the Effectiveness of Dream Interpretation in Gaining Psychological Insight into Young Adults in Korea	Ahn Christine Myunghee, Sim Wonjin, Cho Kristina, Ahn Mira, Hong Yeju, Kwok Jihae, Lim Sooyeon, Park Hansol Sogang University, Korea, Republic Of
The Impact of Job Meaningfulness on the Relationships between Job Autonomy, Supportive Organizational Climate, and Job Satisfaction	Sashank Nyapati, Laura Lorente-Prieto, Maria Peiro University of Valencia, Spain (e-Poster)
Theory of Mind and Its Brain Distribution in Patients with Temporal Lobe Epilepsy	Wei-Han Wang, Hsiang-Yu Yu, Mau-Sun Hua Taipei Veterans General Hospital, Taiwan (e-Poster)
The Research of Female Teacher, Career Expectation, Work and Family Conflict in Taiwan	Lee-Min Wei, Der-Hsiang Huang, An-Ni Hsi Taichung University, Taiwan, Taiwan (e-Poster)
Standardization of the Behavior Assessment System for Children-2, Parent Rating Scales - Adolescent Form (K BASC-2, PRS-A) among Korean	Christine Myunghee Ahn, Sung Eun Baek, Sun Young Park Sogang University, Korea, Republic Of
The Influence of Gender Role Ideologies in Women`s Careers	Carmen Inoa Vazquez NYU School of Medicine, United States

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Session XI - May 29, 2015 Room : A 08:00-10:00

Coffee Break : 10:00 - 10:15

Chair: Chun-Chuan Yang, Vadim Vagin

篇名	作者
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A Cost Effective Approach to Develop Mid-Size Enterprise Software Adopted the Waterfall Model	Mohammad Nehal Hasnine, Md Kamrul Hasan Chayon, Md Mobasswer Rahman Tokyo University of Agriculture and Technology, Japan
Forecasting of Grape Juice Flavor by Using Support Vector Regression	Ren-Jieh Kuo, Chun-Shou Huang National Taiwan University of Science and Technology, Taiwan
Multi-Channel Information Fusion in C-OTDR Monitoring Systems: Various Approaches to Classify of Targeted Events	Andrey V. Timofeev LPP Equalizoom, Kazakhstan
A Medical Resource Forecasting Model for Emergency Room Patients with Acute Hepatitis	R. J. Kuo, W. C. Cheng, W. C. Lien, T. J. Yang National Taiwan University of Science and Technology, Taiwan
Temporal Case-Based Reasoning System for Automatic Parking Complex	Alexander P. Ereemeev, Ivan E. Kurilenko, Pavel R. Varshavskiy National Research University "MPEI" , Russian Federation
Application of Argumentation for Improving the Classification Accuracy in	Vadim Vagin, Marina Fomina, Oleg Morosin

篇名	作者
Inductive Concept Formation	Moscow Power Engineering Institute (Technical University) , Russian Federation
A Study on the Assessment of Prosthetic Infection after Total Knee Replacement Surgery	Chun-Lang Chang, Chun-Kai Liu National Formosa University, Taiwan (e-Poster)
Development of Intelligent Smart Multi Tracking Agent System to Support of Logistics Safety	Umarov Jamshid, Ju-Su Kim, Hak-Jun Lee, Man-Kyo Han, Ryum-Duck Oh Korea National University of Transfortation, Korea, Republic Of
Design of Incident Information System in IoT Virtualization Platform	Amon Olimov, Umarov Jamshid, Dae-Ho Kim, Chol-U Lee, Ryum-Duck Oh Korea National University of Transportation, Korea, Republic Of

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Session XII - May 29, 2015 Room : A 10:15-13:30

Lunch Break : 13:30

Chair: Ahmad Termimi Ab Ghani, Mohd Salmi Md Noorani

篇名	作者
An Optimized RDP Algorithm for Curve Approximation	Jean-Pierre Lomaliza, Kwang-Seok Moon, Hanhoon Park Pukyong National University, Korea, Republic Of
New Security Approach of Confidential Resources in Hybrid Clouds	Haythem Yahyaoui, Samir Moalla, Mounir Bouden, Skander ghorbel Faculty of Science of Tunis, Tunisia

篇名	作者
A New Authenticable Steganographic Method via the Use of Numeric Data on Public Websites	Che-Wei Lee, Bay-Erl Lai National Kaohsiung Marine University, Taiwan
Structured Access Control Mechanism for Mesh-based P2P Live Streaming Systems	Chuan-Ching Sue, Kai-Chun Chuang National Cheng Kung University, Taiwan
Is Swaziland on Track with the 2015 Millennium Development Goals?	A. Sathiya Susuman University of the Western Cape, South Africa
On the Analysis of Strategies of Buechi Games	Ahmad Termimi Ab Ghani, Kojiro Higuchi Universiti Malaysia Terengganu, Malaysia
Stability Analysis of SEIR Epidemic Model with Treatment Function	Sasiporn Rattanasupha, Settapat Chinviriyasit King Mongkut's University of Technology Thonburi, Thailand
The Classification Performance in Parametric and Nonparametric Discriminant Analysis for a Class-Unbalanced Data of Diabetes Risk Groups	Lily Ingsrisawang, Tasanee Nacharoen Kasetsart University, Thailand
Study on the Central Differencing Scheme with the Staggered Version (STG) for Solving the Hyperbolic Partial Differential Equations	Narumol Chintaganun King Mongkut's University of Technology Thonburi, Thailand
Interval Estimation for Rainfall Mean in Northeastern Thailand	Nitaya Buntao Rajabhat Mahasarakham University, Thailand

篇名	作者
New Segmentation of Piecewise Linear Regression Models Using Reversible Jump MCMC Algorithm	Suparman Ahmad Dahlan University, Indonesia
Capture-recapture to Estimate Completeness of Pulmonary Tuberculosis with Two Sources	Ratchadaporn Ungcharoen, Lily Ingsrisawang Kasetsart University, Thailand
A Wireless Sensor System for Continuous Monitoring of Particulate Air Pollution	A. Yawootti, P. Intra, P. Sardyoung, P. Phoosomma, R. Puttipattanasak, S. Leeragreephol, N. Tippayawong Chiang Mai University, Thailand
Automatic Music Score Recognition System Using Digital Image Processing	Yuan-Hsiang Chang, Zhong-Xian Peng, Li-Der Jeng Chung Yuan Christian University, Taiwan
Automatic Motion Trajectory Analysis for Dual Human Interaction Using Video Sequences	Yuan-Hsiang Chang, Pin-Chi Lin, Li-Der Jeng Chung Yuan Christian University, Taiwan
Some Results on Cluster Synchronization	Shahed Vahedi, Mohd Salmi Md Noorani Universiti Kebangsaan Malaysia, Malaysia
Application on Metastable Measurement with Wide Range High Resolution VDL Circuit	Po-Hui Yang, Jing-Min Chen, Po-Yu Kuo, Chia-Chun Wu National Yunlin University of Science and Technology, Taiwan (e-Poster)
Design Optimisation of Compound Parabolic Concentrator (CPC) for Improved	R. Abd-Rahman, M. M. Isa, H. H. Goh Universiti Tun Hussein Onn Malaysia,

篇名	作者
Performance	Malaysia
Lightweight Cryptographically Generated Address for IPv6 Neighbor Discovery	Amjed Sid Ahmed, Rosilah Hassan, Nor Effendy Othman Universiti Kebangsaan Malaysia, Malaysia (e-Poster)

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2	Oral	Reflector Arrangement Effect on Ultraviolet Lamp Performance by CFX Simulation 由 CFX William Sidharta, Chin-Tu Lu Southern Taiwan University of Science and Technology Taiwan
3	Poster	Relationship between Extrusion Ratio and Mechanical Properties of Magnesium Alloy C. H. Jeon, Y. H. Kim, G. A. Lee Korea institute of Industrial Technology Korea, Republic Of
4	Poster	A Proposal of Local Indentation Techniques for Mechanical Property Evaluation G. B. Lim, C. H. Jeon, K. H. Jung Korea Institute of Industrial Technology Korea, Democratic People's Republic Of
5	Oral	A Performance Analysis Study for Cloud Based ERP Systems Burak Erkayman Ataturk University Turkey
6	Oral	Nonlinear modeling of the PEMFC based on NNARX approach Shan-Jen Cheng, Te-Jen Chang, Kuang-Hsiung Tan, Shou-Ling Kuo Army Academy R.O.C Taiwan

7	Oral	<p>Simulation Studies of Solid-Particle and Liquid-Drop Erosion of NiAl Alloy</p> <p>Rong Liu, Kuiying Chen, Ju Chen, Jingrong Zhao, Ming Liang Carleton University Canada</p>
8	Oral	<p>Consensus Problem of High-Order Multi-Agent Systems under Predictor-Based Algorithm</p> <p>Cheng-Lin Liu, Fei Liu Jiangnan University China</p>
9	Oral	<p>Cyclostationary Gaussian Linearization for Analyzing Nonlinear System Response Under Sinusoidal Signal and White Noise Excitation</p> <p>R. J. Chang National Cheng Kung University Taiwan</p>
10	Oral	<p>Three Dimensional Large Eddy Simulation of Blood Flow and Deformation in an Elastic Constricted Artery</p> <p>Xi Gu, Guan Heng Yeoh, Victoria Timchenko The University of New South Wales Australia</p>
11	Oral	<p>Optimal Power Distribution and Power Trading Control Among Loads in a Smart Grid Operated Industry</p> <p>Vivek Upadhayay, Siddharth Deshmukh NIT Rourkela India</p>
12	Oral	<p>Handling Complexity of a Complex System Design: Paradigm, Formalism and Transformations</p> <p>Hycham Aboutaleb, Bruno Monsuez ENSTA ParisTech France</p>
13	Oral	<p>Experimental Investigation on the Optimal Operating Frequency of a Thermoacoustic Refrigerator</p> <p>Kriengkrai Assawamartbunlue, Channarong Wantha</p>

		Kasetsart University Thailand
14	Oral	Experimental Study to Determine the Effect of Wire Mesh Pore Size on Natural Draft Chimney Performance Md. Mizanur Rahman, Chu Chi Ming, Mohd Suffian Bin Misaran University Malaysia Sabah Malaysia
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16	Poster	Application of Ultrasonic Assisted Machining Technique for Glass-Ceramic Milling S. Y. Lin, C. H. Kuan, C. H. She, W. T. Wang National Formosa University Taiwan
17	Poster	The Design of Acoustic Horns for Ultrasonic Aided Tube Double Side Flange Making Kuen-Ming Shu, Jyun-Wei Chen National Formosa University Taiwan
18	Poster	Layered Fiberconcrete Element Building Technology and Strength Vitalijs Lasis, Videvuds-Arijs Lapsa, Olga Kononova, Andrejs Krasnikovs Riga Technical University Latvia
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		Alan C. Lin, Tsong Der Lin National Taiwan University of Science and Technology Taiwan
21	Oral	Comparison of Due Date Assignment Rules in a Dynamic Job Shop Mumtaz Ipek, Burak Erkeyman Sakarya University Turkey
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24	Oral	Achieving Household Electricity Saving Potential Through Behavioral Change Lusi Susanti, Prima Fithri Andalas University Indonesia
25	Oral	Improving Library Service Quality in Local City of Indonesia Prima Fithri, Afri Adnan, Verra Syahmer ANDALAS UNIVERSITY Indonesia
26	Oral	Design of Agricultural Machinery Factory Facility Layout Nilda Tri Putri, Muhammad Taufik Andalas University Indonesia
27	Oral	The Optimal Order Policy for the Newsvendor Model under Worker Learning Sunantha Teyarachakul MacEwan University Canada
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33	Oral	Effect of Chemical Modifier on the properties of Polypropylene (PP) / Coconut fiber (CF) in Automotive Application K. Shahril, A. Nizam, M. Sabri, A. Siti Rohana, H. Salmah UNIVERSITI KUALA LUMPUR Malaysia
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		<p>Various Passivations</p> <p>Ming-Kwei Lee, Chih-Feng Yen</p> <p>MingDao University Taiwan</p>
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		National Taiwan University of Science and Technology Taiwan
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57	Oral	Water-Repellent Mesoporous Aerogel and Macroporous Nanofibrous Membranes for CO ₂ Capture in Membrane Contactor Yi-Feng Lin Chung Yuan University Taiwan
58	Poster	Prussian Blue/Chitosan Mixed-Matrix Membranes with Improved Separation Performance of Ethanol/Water Mixtures Ting-YuLiu, Yi-Feng Lin Chung Yuan Christian University Taiwan
59	Poster	Indium Oxide/Scandium Doping Yttria-Stabilized Zirconia Composite Films as Electrolytes for Solid Oxide Fuel Cells Yong-Jie Lin, Yi-Feng Lin Chung Yuan Christian University Taiwan
60	Poster	Alumina Supported Cu-Mn-Cr Catalysts for CO and VOCs oxidation Krasimir Ivanov, Elitsa Kolentsova, Dimitar Dimitrov, Petya Petrova, Tatyana Tabakova Agricultural University Bulgaria
61	Oral	Preparation and Characterizations of Natural Material Based Ceramic Membranes

		In-Hyuck Song, Jang-Hoon Ha Korea Institute of Materials Science Korea, Republic Of
62	Oral	The Catalytic Activity of CU₂O Microparticles Kanda Wongwailikhit Rangsit University Thailand
63	Oral	The Different Roles between Sodium and Potassium Ions in Ion Exchange of WO₃/SiO₂ Catalysts Kritsada Pipitthapan Chulalongkorn University Thailand
64	Oral	Influence of MgO Physically Mixed with Tungsten Oxide Supported Silica Catalyst on Coke Formation Thidaya Thitiapichart Chulalongkorn University Thailand
65	Oral	Kinetic Study of 1-Butene Isomerization over Hydrotalcite Catalyst Sirada Sripinun Chulalongkorn University Thailand
66	Oral	Central Composite Design for the Optimization of Fenton Process Parameters in Treatment of Hydrocarbon Contaminated Soil using Nanoscale Zero-Valent Iron Ali Gharaee, Mohammad Reza Khosravi Nikou, Bagher Anvaripour, Ali Asghar Mahjoobi Shahid Hasheminejad Gas Processing Company Iran, Islamic Republic Of
67	Poster	Photons, Corpuscles with Mass and Negative Electrostatic Charge Ioan Rusu Electrica Serv Romania
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68	Oral	Development of Portable Water Jet Cutter Mobile Hand Tool: Analysis of Nozzle Geometries and Materials Razali Bin Abidin National Defence University Malaysia
69	Poster	Polygeneration Solar Air Drying Binoy Chandra Sarma, S. K. Deb Guwahati University India
70	Oral	Groundwater Treatment of Thailand's Mae Moh Lignite Mine A. Laksanayothin, W. Ariyawong Electricity Generating Authority of Thailand Thailand
71	Oral	Comparison of Chemical Coagulation and Electrocoagulation for Boron Removal from Synthetic Wastewater Using Aluminum Kartikaningsih Danis, Yao Hui Huang National Cheng Kung University Taiwan
72	Oral	Water Management of Erdenet Mining Company K. H. Oyuntungalag, Scott Kenner, O. Erdenetuya Research Center of Erdenet Mining Company Mongolia
73	Oral	Adsorption of Cu (II) Ions from Aqueous Solution Using Adlai Shell (Coix lacryma-jobi. L) Edgar D. Flores, Mark Daniel G. de Luna, Ming-Chun Lu University of the Philippines Philippines
74	Oral	Comparison of Statistical Methods for Estimating Missing Precipitation Data in the River Subbasin Lenguazaque, Colombia Miguel Cañon, Darwin Mena, Ivan Cabeza Universidad Santo Tomas Colombia
75	Oral	Design of Low-Cost water purification system using Activated Carbon.

		Nayan Kishore Giri, Ramakar Jha NATIONAL INSTITUTE OF TECHNOLOGY India
76	Oral	Hydrological Analysis for Urban Water Management Ranjit Kumar Sahu, Ramakar Jha NIT ROURKELA India
77	Oral	Critical Appraisal of Different Drought Indices of Drought Predection and Their Application in KBK Districts of Odisha Bibhuti Bhusan Sahoo, Ramakar Jha National Institute of Technology,Rourkela India
78	Poster	The Effectiveness of Sulfate Reducing Bacteria in Minimizing Methane and Sludge Production from Palm Oil Mill Effluent (POME) K. Abdul Halim and E. L.Yong Universiti Teknologi Malaysia Malaysia
79	Oral	Mathematical Model for Flow and Sediment Yield Estimation on Tel River Basin, India Santosh Kumar Biswal, Ramakar Jha National Institute of Technology, Rourkela India
80	Oral	Feasibility of Small Hydropower Plants Odisha Sanoj Sahu, Ramakar Jha National Institute of Technology, Rourkela India
81	Oral	Estimation of Soil Erosion and Sediment Yield for ONG River Using GIS Sanjay Kumar Behera, Kanhu Charan Patra NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA India
82	Oral	Studies on Performance of an Airfoil and Its Simulation Rajendra Roul National Institute of Technology,Rourkela India
83	Oral	Effect of Infill Walls on Response of Multi Storey Reinforced

		<p>Concrete Structure</p> <p>Ayman Abd-Elhamed, Sayed Mahmoud</p> <p>Helwan University Egypt</p>
84	Oral	<p>Impact of Lined/Unlined Canal on Groundwater Recharge in the Lower Bhavani Basin, Tamilnadu, India</p> <p>K. Mirudhula, R. Saravanan</p> <p>SNS COLLEGE OF ENGINEERING India</p>
85	Poster	<p>Potential of Lavender (<i>Lavandula vera</i> L.) for Phytoremediation of Soils Contaminated with Heavy Metals</p> <p>Violina Angelova, Dimitar Grekov, Veselin Kisjov, Krasimir Ivanov</p> <p>Agricultural University Bulgaria</p>
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86	Oral	<p>Malaysia National Water Resources Policy (NWRP): A Review Based on the Advocacy Coalition Framework</p> <p>Junaida Ismail</p> <p>UITM Malaysia</p>
87	Oral	<p>Removal of Copper Ions From Wastewater by Using Electroplating</p> <p>Ricky Priambodo, Yao-Hui Huang</p> <p>National Cheng Kung University Taiwan</p>
88	Poster	<p>Risk Reduction of Household Refuse, a Case Study of Shagari Low-Cost, Mubi North (LGA) Adamawa State, Nigeria</p> <p>Maryam Tijjani Kolo</p> <p>YOBE STATE UNIVERSITY DAMATURU Nigeria</p>
89	Oral	<p>Climate Change as Wicked Problems towards Sustainable Development</p> <p>Amin Padash, Mehran Khodaparast, Saadat Khodaparast</p>

		University of Tehran Iran, Islamic Republic Of
90	Oral	Developing a Green Strategic Management Model with regarding HSE-MS Amin Padash, Gholam Reza Nabi Bid Hendi, Hassan Hoveidi University of Tehran Iran, Islamic Republic Of
91	Oral	Environmental Risk Assessment of Mechanization Waste Collection Scheme in Tehran Amin Padash, Javad Kazem Zadeh Khoiy, Hossein Vahidi University of Tehran Iran, Islamic Republic Of
92	Oral	An Approach to Integrated Water Resources Management, a Plan for Action to Climate Change in India H. K. Ramaraju Dayananda Sagar College of Engineering, Visveswaraya Technical University India
93	Oral	Groundwater Geophysical Studies in the Developed and Sub-Urban BBMP Area, Bangalore, Karnataka, South India G. Venkatesha, Urs Samarth, H. K. Ramaraju, Arun Kumar Sharma Dayananda Sagar College of Engineering, Visveswaraya Technical University India
94	Oral	The Impact of Passive Design Factors on House Energy Efficiency for New Cities in Egypt Mahmoud Mourad, Ahmad Hamza H. Ali, S.Ookawara, Ali Kamel Abdel-Rahman, Nady M. Abdelkariem Egypt-Japan University of Science and Technology Egypt
95	Oral	Role of Geohydrology in Groundwater Management-Case Study of Pachod Village, Maharashtra, India Ashok Tejankar, Rohan K. Pathrikar Deogiri College Aurangabad India

96	Oral	<p>Enhancing Institutional Roles and Managerial Instruments for Irrigation Modernization in Sudan: The Case of Gezira Scheme</p> <p>Mohamed Ahmed Abdelmawla</p> <p>NEW HALFA AGRICULTURAL ORGANIZATION Sudan</p>
97	Oral	<p>Anthropogenic Impact on Surface and Groundwaters Quality in the Western Part of the River Nile, Elsaff Village, Giza</p> <p>Mohamed Elkashouty, Mohamed Yehia, Ahmed Tawfuk</p> <p>Cairo University Egypt</p>
98	Oral	<p>Pharmacognostical, Phytochemical and Biological Studies of Leaves and Stems of Hippophae Salicifolia</p> <p>Bhupendra Kumar Poudel, Sadhana Amatya, Tirtha Maiya Shrestha, Bharatmani Pokhrel, Mohan Prasad Amatya</p> <p>Tribhuvan University Nepal</p>
99	Oral	<p>Effect on Nutritional and Antioxidant Properties of Yellow Alkaline Noodles Substituted with Different Levels of Mangosteen (Garcinia Mangostana) Pericarp Powder</p> <p>Mardiana Ahamad Zabidi, Nurain Abdul Karim, Nur Shazrinna Sazali</p> <p>Universiti Teknologi Mara Malaysia</p>
100		<p>"Gurza Incinerator" : Biomass Incinerator Powered by Empty Bunch of Palm Oil Fruits as Electrical Biomass Base Development</p> <p>Andi Ismanto</p> <p>Bogor Agricultural University Indonesia</p>
101	Oral	<p>Effect of Aqueous Enzymatic Extraction Parameters on the Moringa oleifera Oil Yield and Formation of Emulsion</p> <p>Masni Mat Yusoff, Michael H. Gordon, Keshavan Niranjan</p> <p>University of Reading United Kingdom</p>
102	Oral	<p>Impact of Flavor on Food Product Quality, A Case Study of Vanillin Stability during Biscuit Preparation</p>

		N. Yang, R. Linforth, I. Fisk University of Nottingham United Kingdom
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104	Oral	Effect of Oral Administration of "Gadagi" Tea on Activities of Some Antioxidant Enzymes in Rats A. M. Gadanya, M. S. Sule Bayero University Kano Nigeria
105	Oral	Effect of Oral Administration of "Gadagi" Tea on Superoxide Dismutase Activity in Humans A. M. Gadanya, B. A. Ahmad, U. Maigatari Bayero University Kano Nigeria
106	Oral	Assesment of Genetic Fidelity of Micro-Clones of an Aromatic Medicinal Plant <i>Murraya koenigii</i> (L.) Spreng. Ramesh Joshi and Nisha Khatik Government college, Ajmer India
107	Poster	Constitutive Flo1p Expression on Strains Bearing Deletions in Genes Involved in Cell Wall Biogenesis Lethukuthula Ngobese, Abin Gupthar, Patrick Govender University of KwaZulu-Natal South Africa
108	Poster	Saponins from the Fruits of <i>Solanum anguivi</i> Reverse Hyperglycemia, Hyperlipidemia and Increase Antioxidant Status in Streptozotocin Induced Diabetic Rats Isaac Gbadura Adanlawo, Olusola Olalekan Elekofehinti

		Ekitit State University Nigeria
109	Poster	<p>Implication of ATP synthase β subunit in chikungunya virus entry into insect cells.</p> <p>Chanida Fongsaran, Krit Jirakanwisal, Atichat Kuadkitkan, Nitwara Wikan, Phitchayapak Wintachai, Chutima Thepparit, Sukathida Ubol, Narumon Phaonakrop and S. R. a. D. R. Smith Mahidol University Thailand</p>
110	Poster	<p>Phyllanthus nuriri Protect against Fe²⁺ and SNP Induced Oxidative Damage in Mitochondrial Rich Fractions of Rats Brain</p> <p>Olusola Olalekan Elekofehinti, Isaac Gbadura Adanlawo, Joao Batista Teixeira Rocha Adekunle Ajasin University Nigeria</p>
111	Oral	<p>Analysis of a Lignocellulose Degrading Microbial Consortium to Enhance the Anaerobic Digestion of Rice Straws</p> <p>Supanun Kangrang, Kraipat Cheenkachorn, Kittiphong Rattanaporn, Malinee Sriariyanun King Mongkut's University of Technology Thailand</p>
112	Poster	<p>Selection of Pichia kudriavzevii Strain for the Production of Single-Cell Protein from Cassava Processing Waste</p> <p>Phakamas Rachamontree, Theerawut Phusantisampan, Natthakorn Woravutthikul, Peerapong Pornwongthong, Malinee Sriariyanun King Mongkut's University of Technology Thailand</p>
113	Oral	<p>Salinity Effects on Germination of Malaysian Rice Varieties and Weedy Rice Biotypes</p> <p>Md Kamal Uddin, Hj Mohd Dandan, Ame Hj Alidin Universiti Malaysia Sabah Malaysia</p>
114	Oral	<p>Optimization of Diluted Organic Acid Pretreatment on Rice Straw Using Response Surface Methodology</p>

		Rotchanaphan Hengaroonprasan, Malinee Sriariyanun, Prapakorn Tantayotai, Supacharee Roddecha, Kraipat Cheenkachorn King Mongkut's University of Technology Thailand
115	Oral	The Evaluation of Antioxidant Activity of Aloe Vera (Aloe barbadensis miller) R. A. Akande, M. L. Mnisi The University of Limpopo South Africa
116	Oral	Single-Molecule Optical Study of Cholesterol-Mediated Dimerization Process of EGFRs in Different Cell Lines Chien Y. Lin, Jung Y. Huang, Leu-Wei Lo National Chiao Tung University Taiwan
117	Poster	Mitochondrial Energy Utilization is Unchanged with Age in the Trophocytes and Oenocytes of Queen Honeybees (Apis mellifera) Chia-Ying Yen, Chin-Yuan Hsu Chang Gung University Taiwan
118	Poster	Cellular Energy Metabolism Decreases with Age in the Trophocytes and Oenocytes of Honeybees (Apis Mellifera) Chin-Yuan Hsu, Yu-Lung Chuang Chang Gung University Taiwan
119	Poster	Cellular Degradation Activity is Activated by Ambient Temperature Reduction in an Annual Fish (Nothobranchius rachovii) Cheng-Yen Lu, Chin-Yuan Hsu Chung Gung university Taiwan
120	Oral	Hyper-Production of Lysine through Fermentation and Its Biological Evaluation on Broiler Chicks Shagufta Gulraiz, Abu Saeed Hashmi, Muhammad Mohsin Javed university of veterinary and animal sciences Pakistan

121	Poster	<p>Serological Assay and Genotyping of Hepatitis C Virus in Infected Patients in Zanjan Province</p> <p>Abdolreza Esmaeilzadeh, Maryam Erfanmanesh, Sousan Ghasemi, Farzaneh Mohammadi</p> <p>Zanjan university of medical sciences, Faculty of medicine Iran, Islamic Republic Of</p>
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Chair : Shitalkumar Patil

122	Poster	<p>ANA Negative but FANA Positive Patients with Clinical Symptoms of Rheumatic Disease: The Suggestion for Clinicians</p> <p>Abdolreza Esmaeilzadeh, Mehri Mirzaei</p> <p>Zanjan university of medical sciences, Faculty of medicine Iran, Islamic Republic Of</p>
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123	Poster	<p>Associations of the FTO Gene Polymorphism with Obesity and Metabolic Syndrome in Lithuanian Adult Population</p> <p>Alina Smalinskiene Janina Petkeviciene, Jurate Klumbiene, Vilma Kriaucioniene, Vaiva Lesauskaite</p> <p>Lithuanian University of Health Science Lithuania</p>
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124	Poster	<p>Antimutagenic Activity of a Protein, Lectin Fraction from Urtica Dioica L.</p> <p>Nijole Savickiene, Antonella Di Sotto, Gabriela Mazzanti, Rasa Starselskyte, Silvia Di Giacomo, Annabella Vitalone</p> <p>Lithuanian University of Health sciences Lithuania</p>
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125	Poster	<p>A Platform to Screen Targeting Molecules of Ligand-EGFR Interactions</p> <p>Wei-Ting Kuo, Feng-Huei Lin</p> <p>National Taiwan University Taiwan</p>
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126	Poster	<p>Genetic Diversity Analysis in Triticum Aestivum Using</p>
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		<p>Microsatellite Markers</p> <p>Prachi Sharma, Mukesh Kumar Rana eternal university India</p>
127	Oral	<p>Theoretical Modeling of Mechanical Properties of Eco-Friendly Composites Derived from Sugar Palm</p> <p>J. Sahari, S. M. Sapuan Universiti Malaysia Sabah Malaysia</p>
128	Oral	<p>Seroprevalence of Cytomegalovirus among Pregnant Women in Islamabad, Pakistan</p> <p>Hassan Waseem Quaid-i-Azam University Pakistan</p>
129	Oral	<p>Genetic Analysis of the Endangered Mangrove Species Avicennia Marina in Qatar Detected by Inter-Simple Sequence Repeat DNA Markers</p> <p>Talaat Ahmed, Amna Babssail Qatar University Qatar</p>
130	Oral	<p>Screening of Indigenous Rhizobacteria for Growth Promoting and Antagonistic Activity against Fusarium Oxysporum in Tomato</p> <p>Mohammed H. Abu-Dieyeh, Mohammad M. Zalloum Qatar University Qatar</p>
131	Poster	<p>Water Use Efficiency of Sunflower Genotypes Under Drip Irrigation</p> <p>Adel M. Mahmoud Assiut University Egypt</p>
132	Oral	<p>Formulation and Evaluation of Lisinopril Microspheres for Nasal Delivery</p> <p>S. S. Patil, R. M. Mhetre, S. V. Patil Ashokrao Mane College of Pharmacy, Peth-vadgaon, Kolhapur India</p>
133	Oral	<p>Novel Emulgel of Piroxicam for Topical Application with Mentha</p>

		<p>and Clove Oil</p> <p>S. V. Patil, P. S. Dounde, S. S. Patil</p> <p>Ashokrao Mane College of Pharmacy, Peth-vadgaon, Kolhapur India</p>
134	Poster	<p>Identification of Natural Liver X Receptor Agonists as the Treatments or Supplements for the Management of Alzheimer and Metabolic Diseases</p> <p>Hsiang-Ru Lin</p> <p>National Kaohsiung Normal University Taiwan</p>
135	Poster	<p>Exploration of the Potentiated Anti-Atherosclerotic Effect of Lion's Mane Mushroom Extract (<i>Hericium erinaceus</i>) on EA.hy 926 Endothelial Cells</p> <p>Jian-You Pan, Jih-Hao Pan, Meng-Chang Shieh, Hsin-LinYang, You-Cheng Hseu, Hebron C. Chang</p> <p>Asia University Taiwan</p>
136	Poster	<p>Functionalized SPIO Conjugated with Doxorubicin for Tumor Diagnosis and Chemotherapy Enhanced by Applying Magnetic Fields</p> <p>Po-Chin Liang, Yung-Chu Chen, Chi-Feng Chiang, Yun-Ping Lin, Wen-Yuan Hsieh, Win-Li Lin</p> <p>Nationl Taiwan University Taiwan</p>
137	Poster	<p>Anti-Allergic Activities of Smilax Glabra Rhizome Extracts and Its Isolated Compounds</p> <p>Arunporn Itharat, Kamonmas Srikwan, Srisopa Ruangnoo, Pakakrong Thongdeeying</p> <p>Faculty of Medicine, Thammasat University Thailand</p>
138	Poster	<p>Inhibitory Effect on TNF-Alpha Release of Dioscorea membranacea and Its Compounds</p> <p>Arunporn Itharat, Srisopa Ruangnoo, Pakakrong Thongdeeying</p> <p>Faculty of Medicine, Thammasat University Thailand</p>

139	Poster	Regulation of Apoptosis in Human Lung Cancer NCI-H226 Cells through Caspase - Dependent Mechanism by Benjakul Extract Pintusorn Hansakul, Ruchilak Rattarom, Arunporn Itharat Thammasat University Thailand
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Chair : Srisopa Ruangnoo		
140	Poster	In Vitro Antioxidant and Cytotoxic Activities Against Human Oral Cancer and Human Laryngeal Cancer of Limonia acidissima L. Bark Extracts Kriyapa lairungruang, Arunporn Itharat Thammasat University Thailand
141	Poster	Cytotoxic Activity against Hepatocarcinoma and Cholangiocarcinoma Cells of Four Cathartic Herbal Medicines Pranporn Kuropakornpong, Srisopa Ruangnoo, Arunporn Itharat Thammasat University Thailand
142	Poster	The Anti-allergic Activity of Prasaprophyai Preparation Extract After Accelerated Stability Testing Sunita Makchuchit, Arunporn Itharat Thammasat University Thailand
143	Poster	Cytotoxicity of Flavonoid Compounds from Smilax corbularia Kunth Against Cholangiocarcinoma Cell Line Pakakrong Thongdeeying, Srisopa Ruangnoo, Arunporn Itharat Thammasat University Thailand
144	Poster	Cytotoxic Activity of Extracts from Hibiscus sabdariffa Leaves against Women' s Cancer Cell Lines Patsorn Worawattananutai, Srisopa Ruangnoo, Arunporn Itharat Thammasat University Thailand
145	Oral	The Biomechanics Analysis of Single-Thread and Multiple-Thread

		<p>Dental Implant</p> <p>Hung-Chih Chang, Chau-Hsiang Wang, Chih-Han Chang, Hung Wei-Ching, Hung-Yuan Li</p> <p>National Cheng Kung University Taiwan</p>
146	Poster	<p>Cytotoxic Activity of <i>Parkia javanica</i> Merr. and <i>Parkia speciosa</i> Hassk. Against Human Cancer Cell Lines</p> <p>Srisopa Ruangnoo, Arunporn Itharat</p> <p>Thammasat University Thailand</p>
147	Poster	<p>Isolate Cytotoxic Compound from <i>Tectona grandis</i> Stem for use as Thai Medicinal Preparation for Cancer Treatment.</p> <p>Onmanee Prajuabjinda, Pakakrong Thondeeying, Jipisute Chunthorng-Orn, Bhanuz Dechayont, Arunporn Itharat</p> <p>Thammasat University Thailand</p>
148	Poster	<p>Anti-inflammatory and Antioxidant Activity of <i>Heliotropium indicum</i> Linn. Used for Cancer Patients Treatment</p> <p>Jitpisute Chunthorng-Orn, Thana Juckmeta, Onmanee Prajuabjinda, Arunporn Itharat</p> <p>Thammasat University Thailand</p>
149	Oral	<p>Influence of Stress Relaxation and Hysteresis Effect for Pressure Garment Design</p> <p>Chia-Wen Yeh, Ting-Sheng Lin, Chih-Han Chang</p> <p>National Cheng Kung University Taiwan</p>
150	Oral	<p>Using the Micro Computed Tomography to Study the Corrosion Behavior of Magnesium Alloy at Different pH Values</p> <p>Chia-Jung Chang, Sheng-Che Chen, Ming-Long Yeh, Chih-Wei Wang, Chih-Han Chang</p> <p>National Cheng Kung University Taiwan</p>
151	Poster	<p>Marketing and Pharmaceutical Analysis of Medical Cosmetics in</p>

		<p>Bulgaria and Japan</p> <p>V. Petkova, V. Valchanova, D. Grekova, K. Andreevska, S. T. Geurguiev, V. Madgarov, D. Grekov</p> <p>Faculty of Pharmacy, Medical University - Sofia Bulgaria</p>
152	Poster	<p>Biodegradable Polymeric Vesicles Containing Magnetic Nanoparticles, Quantum Dots and Anticancer Drugs for Drug Delivery and Imaging</p> <p>Fei Ye, Åsa Barrefelt, Manuchehr Abedi-Valugerdi, Khalid M. Abu-Salah, Salman A. Alrokayan, Mamoun Muhammed, Moustapha Hassan</p> <p>King Abdullah Intrnational Medical Research Center Saudi Arabia</p>

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Chair : Po-Hui Yang

153	Oral	<p>Analysis of the Application Current X2 Interface Handover Process in LTE Technology</p> <p>Uke Kurniawan Usman, P.Eka Putri, Abram Rimanady</p> <p>Telkom University Indonesia</p>
154	Oral	<p>Analysis of Universal Mobile Telecommunications Service (UMTS) Planning Using High Altitude Platform Station (HAPS)</p> <p>Yosika Dian Komala, Uke Kurniawan Usman, Yuyun Siti Rohmah</p> <p>Telkom University Indonesia</p>
155	Poster	<p>Application on Metastable Measurement with Wide Range High Resolution VDL Circuit</p> <p>Po-Hui Yang, Jing-Min Chen, Po-Yu Kuo, Chia-Chun Wu</p> <p>National Yunlin University of Science and Technology Taiwan</p>
156	Oral	<p>Dielectrophoretic Characterization of Tin Oxide Nanowires for Biotechnology Application</p> <p>Ahmad Sabry Mohamad, Kai F. Hoettges, Michael Pycraft Hughes</p>

		University of Kuala Lumpur Malaysia
157	Poster	<p>OMTHD Strategy in Asymmetrical Seven-Level Inverter for High Power Induction Motor</p> <p>Rachid Taleb, M' hamed Helaimi, Djilali Benyoucef, Ahmed Derrouazin</p> <p>Hassiba Benbouali University, Laboratoire Génie Electrique et Energies Renouvelables (LGEER) Algeria</p>
158	Oral	<p>Design Optimisation of Compound Parabolic Concentrator (CPC) for Improved Performance</p> <p>R. Abd-Rahman, M. M. Isa, H. H. Goh</p> <p>Universiti Tun Hussein Onn Malaysia Malaysia</p>
159	Oral	<p>Induction Motor Analysis Using LabVIEW</p> <p>E. Ramprasath, P. Manojkumar, P. Veena</p> <p>K.S.Rangasamy College of Technology India</p>
160	Poster	<p>Lightweight Cryptographically Generated Address for IPv6 Neighbor Discovery</p> <p>Amjed Sid Ahmed, Rosilah Hassan, Nor Effendy Othman</p> <p>Universiti Kebangsaan Malaysia Malaysia</p>
161	Oral	<p>Analysing Industry Clustering to Develop Competitive Advantage for Wualai Silver Handicraft</p> <p>Khanita Tumphasuwan</p> <p>Chiang Mai University Thailand</p>
162	Oral	<p>Standardized Framework for Digital Preservation based on Artifacts in Large Infrastructure Oriented System and Serendipity Context</p> <p>Lucia Carrion Gordon, Zenon Chaczko</p> <p>UTS Australia</p>
163	Oral	Empirical Prediction of the Effect of Rain Drops on Dbs System

		<p>Operating in Ku-Band (Case Study of Abuja)</p> <p>Tonga Agadi Danladi, Ajao Wasiru Bamidele, Terdue Dyeko Hussein Adamu Federal polytechnic Kazaure Jigawa State Nigeria</p>
164	Oral	<p>Multi-Channel Information Fusion in C-OTDR Monitoring Systems: Various Approaches to Classify of Targeted Events</p> <p>Andrey V. Timofeev LPP Equalizoom Kazakhstan</p>
165	Oral	<p>Automatic Motion Trajectory Analysis for Dual Human Interaction Using Video Sequences</p> <p>Yuan-Hsiang Chang, Pin-Chi Lin, Li-Der Jeng Chung Yuan Christian University Taiwan</p>
166	Oral	<p>Automatic Music Score Recognition System Using Digital Image Processing</p> <p>Yuan-Hsiang Chang, Zhong-Xian Peng, Li-Der Jeng Chung Yuan Christian University Taiwan</p>
167	Oral	<p>Structured Access Control Mechanism for Mesh-based P2P Live Streaming Systems</p> <p>Chuan-Ching Sue, Kai-Chun Chuang National Cheng Kung University Taiwan</p>
168	Poster	<p>The Analysis of Split Graphs in Social Networks Based on the k-Cardinality Assignment Problem</p> <p>Ivan Belik Norwegian School of Economics Norway</p>
169	Poster	<p>A Hybrid Watermarking Scheme Using Discrete and Discrete Stationary Wavelet Transformation For Color Images</p> <p>Bülent Kantar, Numan Ünalđı HUTEN/HHO Turkey</p>
170	Oral	<p>Software Assessment Using Ant Colony Optimization Algorithm</p>

		Saad M. Darwish Alexandria University Egypt
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Chair : Chun-Chuan Yang		
171	Oral	Improving Fault Tolerance and Load Balancing in Heterogeneous Grid Computing Using Fractal Transform Saad M. Darwish, Adel A. El-Zoghabi, Moustafa F. Ashry Alexandria University Egypt
172	Oral	Sleep Scheduling Schemes Integrating Relay Node and User Equipment in LTE-A Chun-Chuan Yang, Jeng-Yueng Chen, Yi-Ting Mai, Hsieh-Hua Liu National Chi Nan University Taiwan
173	Oral	Forecasting of Grape Juice Flavor by Using Support Vector Regression Ren-Jieh Kuo, Chun-Shou Huang National Taiwan University of Science and Technology Taiwan
174	Oral	Application of Argumentation for Improving the Classification Accuracy in Inductive Concept Formation Vadim Vagin, Marina Fomina, Oleg Morosin Moscow Power Engineering Institute (Technical University) Russian Federation
175	Oral	Temporal Case-Based Reasoning System for Automatic Parking Complex Alexander P. Eremeev, Ivan E. Kurilenko, Pavel R. Varshavskiy National Research University "MPEI" Russian Federation
176	Oral	A Medical Resource Forecasting Model for Emergency Room Patients with Acute Hepatitis R. J. Kuo, W. C. Cheng, W. C. Lien, T. J. Yang

		National Taiwan University of Science and Technology Taiwan
177	Oral	The Personalized Job Recommendation Framework Based on Data Mining Techniques and Dynamic User Profile for E-Recruitment System C. Kaensar Ubon Ratchathani University Thailand
178	Poster	Real Time Detection of Application Layer DDos Attack Using Log Based Collaborative Intrusion Detection System Farheen Tabassum, Shoab Ahmed Khan EME NUST Pakistan
179	Poster	The Potential Threat of Cyberterrorism to the National Security: Theoretical Framework Abdulrahman S. Alqahtani The University of Hull United Kingdom
180	Poster	A Study on the Assessment of Prosthetic Infection after Total Knee Replacement Surgery Chun-Lang Chang, Chun-Kai Liu National Formosa University Taiwan
181	Oral	BAN Logic Proof of E-passport Authentication Protocol Safa Saoudi, Souheib Yousfi, Riadh Robbana Tunisian polytechnic school Tunisia
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		Puttipattanasak, S. Leeragreephol, N. Tippayawong Chiang Mai University Thailand
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202	Oral	Stability Analysis of SEIR Epidemic Model with Treatment Function Sasiporn Rattanasupha, Settapat Chinviriyasit King Mongkut's University of Technology Thonburi Thailand
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208	Oral	Identifying the Malaysian Perception on the Self-Build Home Concept: Provision of Affordable Housing for MIG N. M. Tawil, A. R. Musa, A. I Che-Ani, H. Basri Universiti Kebangsaan Malaysia Malaysia
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		College of Medicine, Dammam University Saudi Arabia
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327	Oral	<p>Indonesia: Top Five Tax Haven Countries as the Strategy to Tax Avoidance</p> <p>Maya Safira Dewi</p> <p>Bina Nusantara Indonesia</p>
328	Oral	<p>Discussion of Leadership Styles and Performance Management in MNEs</p> <p>Yin-Tsuo Huang</p> <p>Toko University Taiwan</p>
329	Oral	<p>How to Affect Brand Attitude with Authenticity in Advertising</p> <p>Tang, Yun-Chia, Chiu, Hung-Chang</p> <p>National Tsing Hua University Taiwan</p>
330	Oral	<p>Climate Change and Rural-Urban Migration in Brazilian Semiarid Region</p> <p>Linda Márcia Mendes Delazeri, Dênis Antônio Da Cunha</p> <p>Federal University of Viçosa Brazil</p>
331	Oral	<p>The Performance Of Emotion Management Within The Thai Spa Industry</p>

		Winayaporn Bhrammanachote, Adelina Broadbridge University of Stirling United Kingdom
332	Oral	The Principles of Democracy and Development: The Political and Philosophical Foundations of Development-Development in Africa Fadeke E. Olu-Owolabi, Fayomi Oluyemi Covenant University Nigeria
333	Oral	Investigating Dynamic Transition Process of Issues Using Unstructured Text Analysis Myungsu Lim, William Xiu Shun Wong, Yoonjin Hyun, Chen Liu, Seongi Choi, Dasom Kim, Namgyu Kim Kookmin University Korea, Republic Of
334	Oral	Analysis of the Relationship between Micro-Regional Human Development and Brazil's Greenhouse Gases Emission Geanderson Eduardo Ambrósio, Dênis Antônio Da Cunha, Marcel Viana Pires Federal University of Viçosa Brazil
335	Oral	Persuasive Competence of Alignable and Non-Alignable Attributes on Consumer Product Evaluation Sherin Shaji, Sandhya Gopalakrishnan, Amrita University Amrita University India
336	Oral	Nepal Himalaya: Status of Women, Politics, and Administration Tulasi Acharya Florida Atlantic University United States
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337	Oral	An Examination of Thai Tourists' Motivation Behavior and Perception of Cultural Heritage in Chiang Mai Province Sujui Yang, Peeraya Somsak, Markus Blut

		Ramkhamhaeng University Thailand
338	Oral	<p>Presenting a Knowledge Mapping Model According to a Comparative Study on Applied Models and Approaches to Map Organizational Knowledge</p> <p>Ahmad Aslizadeh, Farid Ghaderi Yadegar-e-Emam Khomeini (RAH) Branch, Islamic Azad University Iran, Islamic Republic Of</p>
339	Oral	<p>The Impact of Financial Crisis on Different Types of Investors: Evidence from the Taiwan Stock Exchange</p> <p>Mei-Chu Ke, Ming-Hui Wang National Chin-Yi University of Technology Taiwan</p>
340	Oral	<p>Testing the Value and Momentum Strategies with SD Approach</p> <p>Tung Liang Liao, Chuan-Hao Hsu, Kuan-Ting Li Feng Chia University Taiwan</p>
341	Poster	<p>The Applications of Toyota Production System to Reduce Wastes in Agricultural Products Packing Process: A Study of Onion Packing Plant</p> <p>P. Larpsomboonchai Suan Dusit University Thailand</p>
342	Oral	<p>Authentic Leadership, Task Performance, and Organizational Citizenship Behavior</p> <p>C. V. Chen, Y. H. Jeng, S. J. Wang National Central University Taiwan</p>
343	Oral	<p>Impact of Personality on Vengeance and Forgiveness in Young Adults</p> <p>Marium Javaid Bajwa, Ruhi Khalid Beaconhouse National university Pakistan</p>
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344	Oral	<p>Quantification of Site Nonlinearity Based on HHT Analysis of Seismic Recordings</p> <p>Ruichong Zhang Colorado School of Mines United States</p>
345	Oral	<p>A Numerical Study for Damage Detection of a Thin Plate Using Pseudo Local Flexibility Method with Rotary Measurement</p> <p>Ting-Yu Hsu, Wen-I Liao, Yi-Cheng Shi National Center for Research on Earthquake Engineering Taiwan</p>
346	Oral	<p>Preliminary Seismic Hazard Mapping of Papua New Guinea</p> <p>Hadi Ghasemi, Mark Leonard, Spiliopoulos Spiro, Phil Cummins, Mathew Moihoi, Felix Taranu, Eric Buri, Chris Mckee Geoscience Australia Australia</p>
347	Oral	<p>Designing Offshore Pipelines Facing the Geohazard of Active Seismic Faults</p> <p>Maria Trimintziou, Michael Sakellariou, Prodromos Psarropoulos National Technical University of Athens Greece</p>
348	Oral	<p>Fast Algorithm to Determine Initial Tsunami Wave Shape at Source</p> <p>Alexander P. Vazhenin, Mikhail M. Lavrentiev, Alexey A. Romanenko, Pavel V. Tatarintsev University of Aizu Japan</p>
349	Oral	<p>Bond-Slip Response of Reinforcing Bars Embedded in High Performance Fiber Reinforced Cement Composites</p> <p>Lee Siong Wee, Tan Kang Hai, Yang En-Hua Nanyang Technological University Singapore</p>
350	Oral	<p>Ground Response Analysis at the Rukni Irrigation Project Site Located in Assam, India</p> <p>Tauhidur Rahman, Kasturi Bhuyan NIT Silchar India</p>

351	Poster	<p>Specific Earthquake Ground Motion Levels That Would Affect Medium-To-High Rise Buildings</p> <p>Rhommel Grutas, Ishmael Narag, Harley Lacbawan</p> <p>Philippine Institute of Volcanology and Seismology Philippines</p>
352	Oral	<p>Earthquake Identification to Predict Tsunami in Andalas Island, Indonesia Using Back Propagation Method and Fuzzy TOPSIS Decision Seconder</p> <p>Muhamad Aris Burhanudin, Angga Firmansyas, Bagus Jaya Santosa</p> <p>Institut Teknologi Sepuluh Nopember Indonesia</p>
353	Oral	<p>Downward Vertical Evacuation for Disabilities People from Tsunami Using Escape Bunker Technology</p> <p>Febrian Tegar Wicaksana, Niqmatul Kurniati, Surya Nandika</p> <p>Institut Teknologi Sepuluh Nopember Indonesia</p>
354	Oral	<p>Influence of Foundation Size on Seismic Response of Mid-rise Buildings Considering Soil-Structure-Interaction</p> <p>Quoc Van Nguyen, Behzad Fatahi, Aslan S. Hokmabadi</p> <p>University of Technology Sydney Australia</p>