



“ELECTRONIC GOVERNMENT IN MALAYSIA”

By

**Salmah Khairuddin
Malaysian Administrative Modernisation
And Management Planning Unit (MAMPU)
Prime Minister’s Department, Malaysia**

*Perdana Putra
Photographed by Wong Suk Ham*



Agenda



- **Introduction**
- **E-Government Overview**
- **Project Description and Implementation Status**
- **Key Challenges and Lessons Learned**
- **The Malaysian Public Sector Strategic ICT Framework**
- **Moving Forward**





Introduction



- The implementation of ICT in Government agencies has been on going since the 1960's
- Various ICT systems have been implemented at tremendous costs
- Total expenditure of ICT project under the 8th Malaysia Plan (2000-2005) is about RM5.2 billion
- Growth of ICT implementation has continuously been given top priority by the Government of Malaysia



E-Government

How it all begun...





Vision 2020



- **Brainchild of Malaysia's former Prime Minister, Tun Dr Mahathir Mohamad.**
- **An optimistic and realistic national agenda that sets out specific goals and objectives for long term development of the nation.**
- **To build a fully developed, matured, balanced society and knowledge-rich Malaysia by 2020.**





The Multimedia Super Corridor - MSC

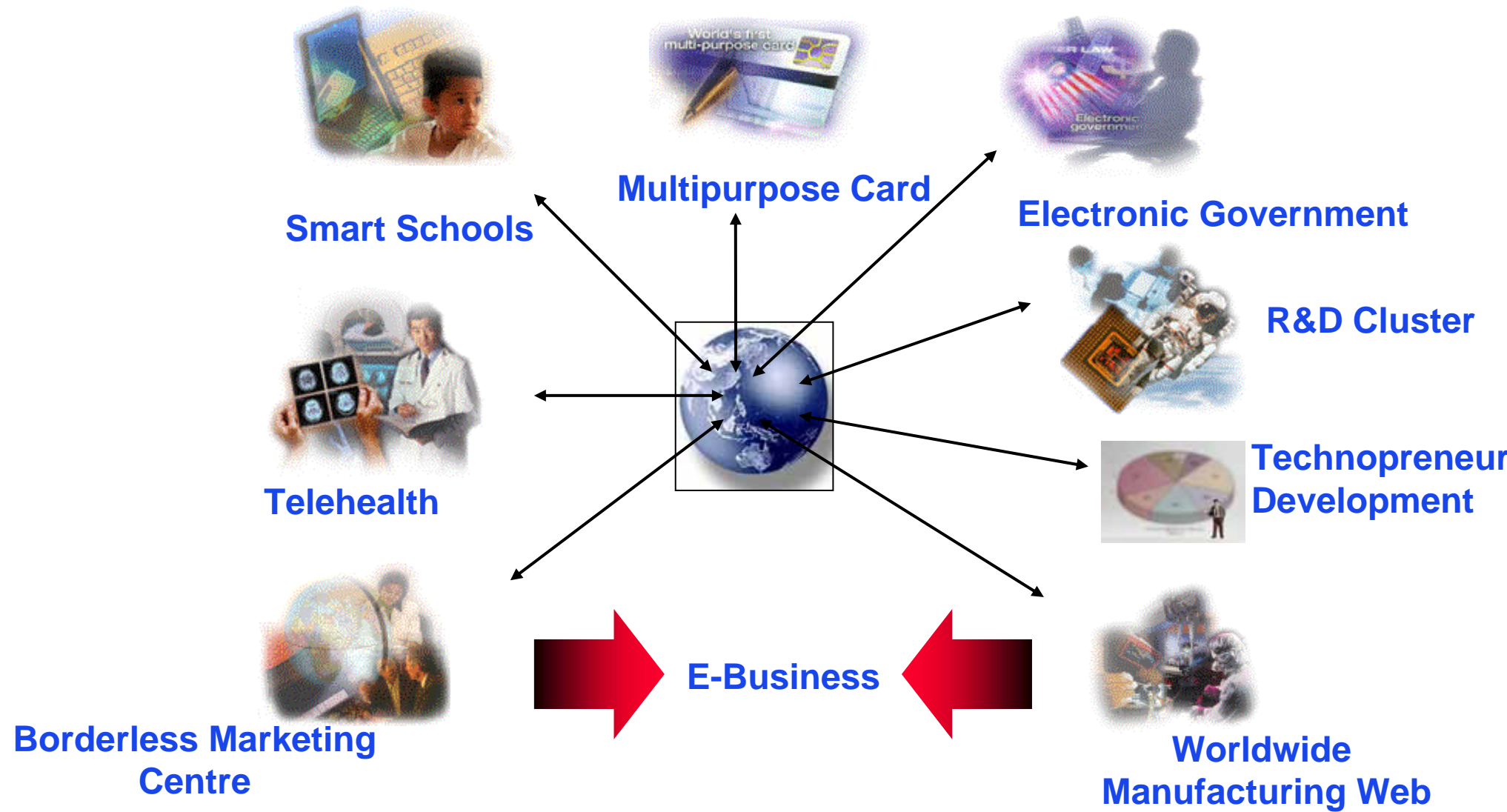


- 15x50 km garden corridor south of Kuala Lumpur.
- Special bill of guarantees, cyber laws, policies and practices tailored to enable residents to achieve the full promise of multimedia.
- World-class physical infrastructure and next-generation 2.5-10 Gigabit multimedia network





8 MSC “Flagship” Applications





Our Focus: E-Government Flagship



Scope of E-Government



- 28 Federal Ministries
- 219 Federal Departments / Federal Statutory Bodies

Government



About 900,000 employees

- 346 State Departments / State Statutory Bodies
- 142 Local Government Authorities



Businesses



Citizens



Vision for E-Government



“To transform administrative process and service delivery through the use of Information Communication Technology and multimedia”

STANDARDS

Government to Citizens/ Businesses

easy access, single window
enhanced quality of services
multi-channel service delivery

SECURITY

Intra Agency

process improvements
people development

Inter Agency

smooth information flow
enhanced capability for
analysis
enhanced use of multimedia

LEGISLATION



What We Went Through....





Conceptualization to Realization



- Public-Private Sector
- Collaboration
- E-Government Blueprint
- Concept Request for Proposals



- E-Government Pilot Projects



List of Possible Projects



Citizen-to-Government Project List

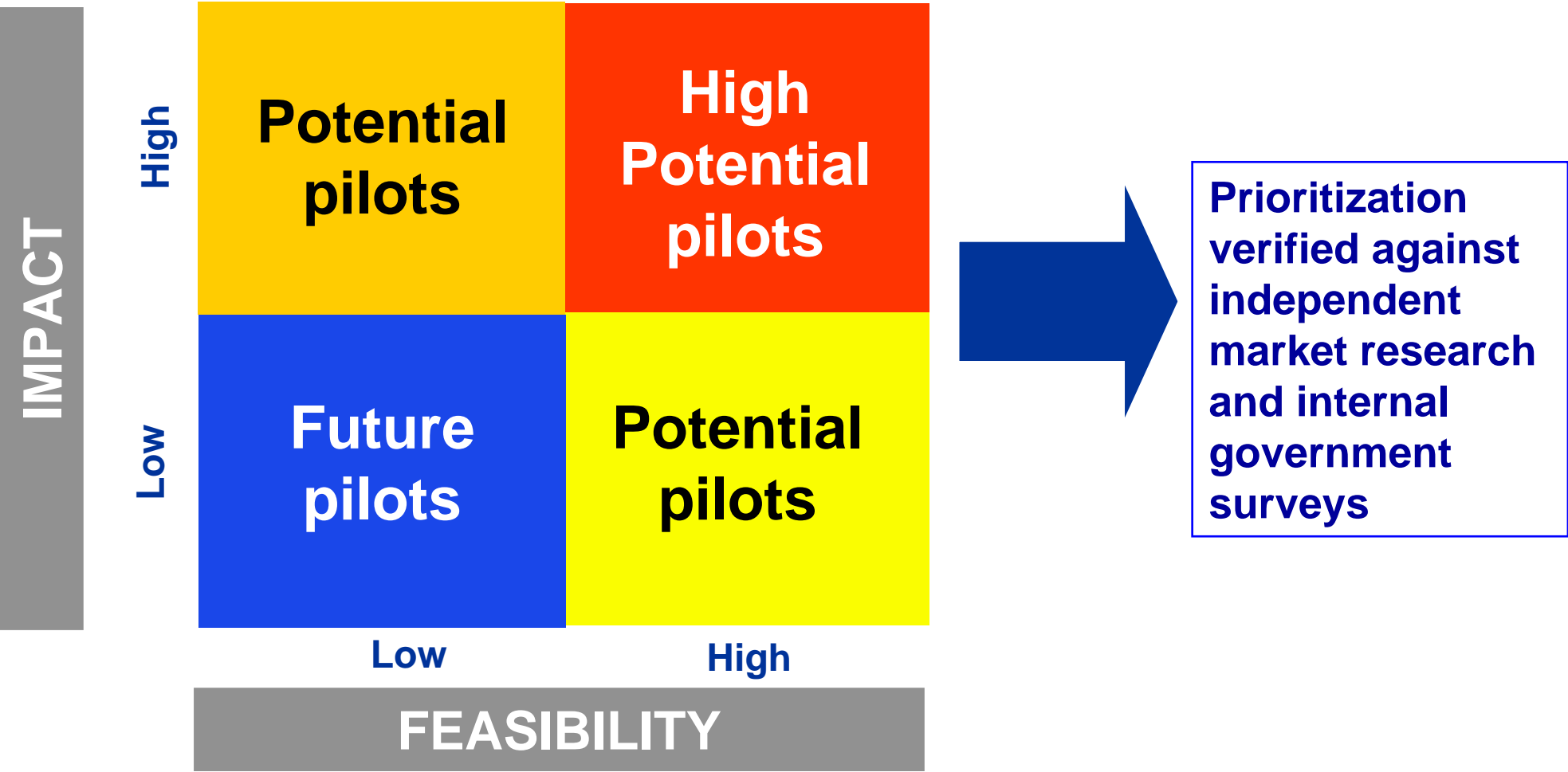
- Electronic driver's license issuance and renewal
- Integrated passport and visa processing
- Electronic tax payment and processing
- Smart traffic fine payment
- Electronic road tax and vehicle registration
- Electronic EPF/SOCSSO management
- Easy employment licensing/permitting
- Electronic IC renewal
- Electronic quit rent processing and payment
- Smart commercial vehicle licensing/permitting
- Electronic pension processing
- Integrated low cost housing management
- On-line consumer information
- On-line health information
- Electronic public complains information
- Electronic school/higher education registration
- Electronic polling/survey

Business-to-Government Project List

- On-line registration of company & business
- Electronic trade licenses/permits
- Electronic procurement and tendering
- On-line foreign trade information
- On-line entrepreneurial programs
- Electronic registration of society
- Information on demographics
- Information on agriculture
- Electronic GIS, land information & land zoning
- On-line environmental requirements information
- On-line rural programs information
- On-line information on tariffs & shipping schedule
- Electronic sponsorship information
- Operation permits
- On-line economic policies/info on projects status

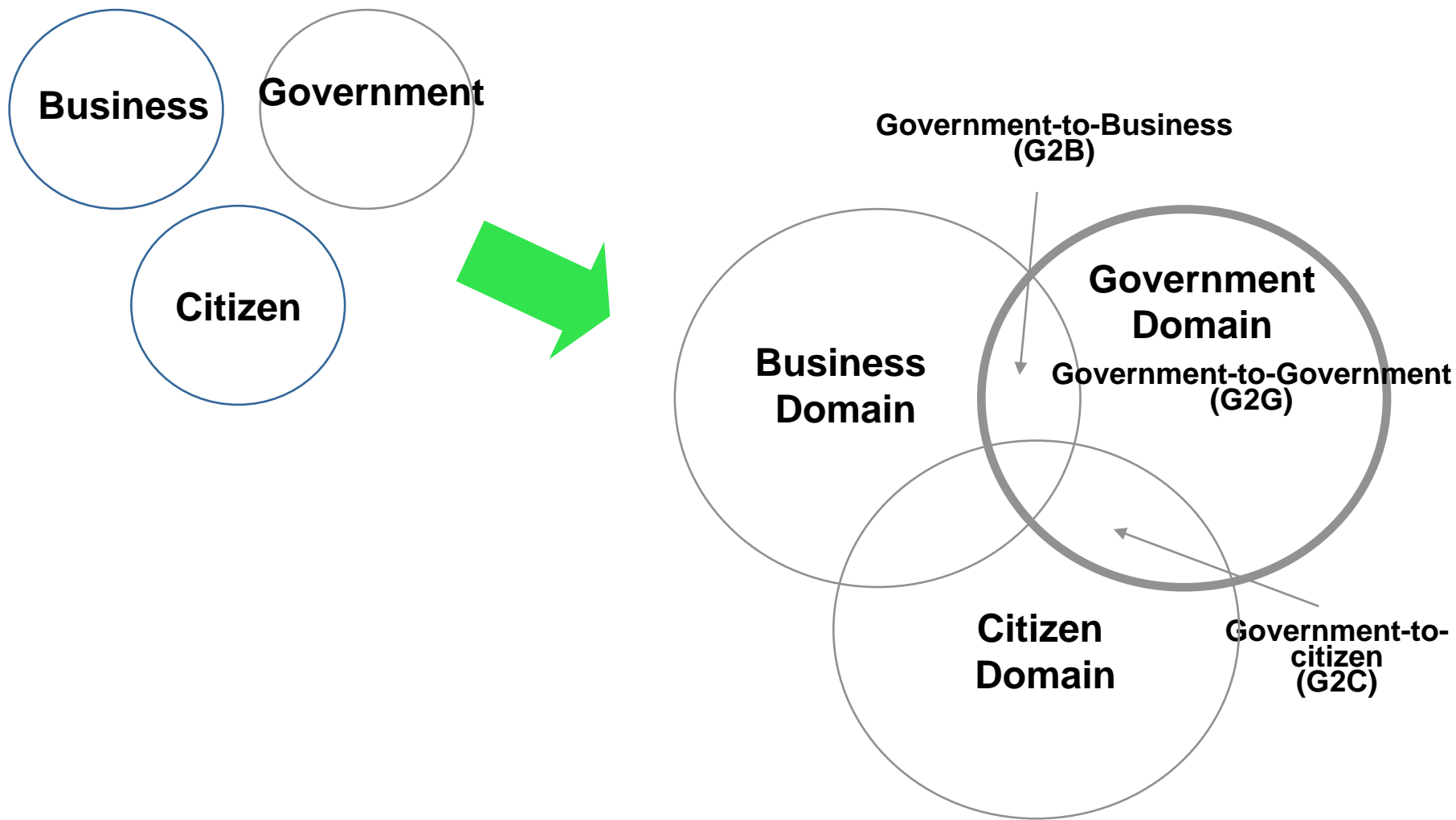


Identify and Prioritise Potential Pilot Projects



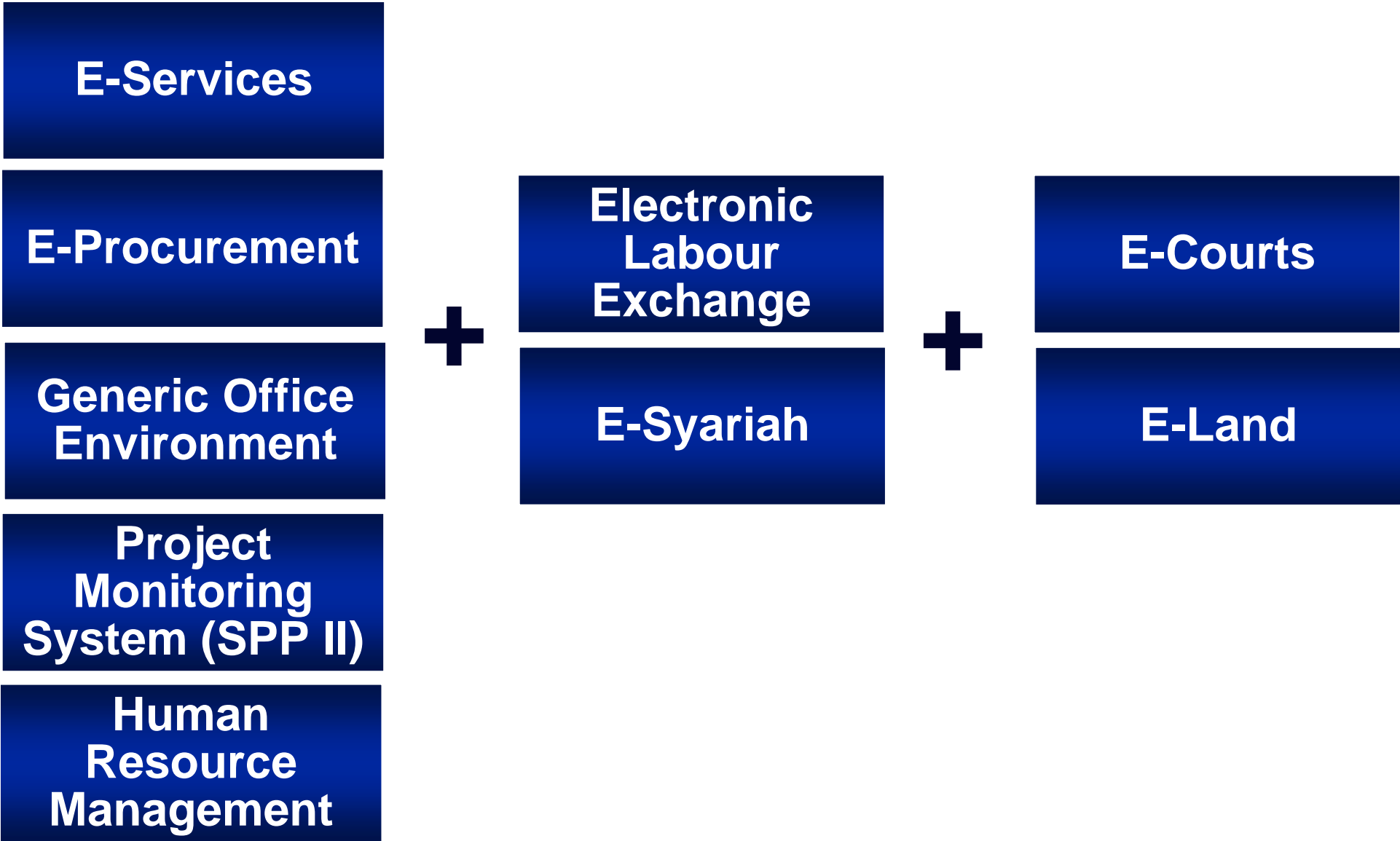


The E-Government Model





Current E-Government Projects





E-Services



Road Transport
Dept



Police



Utility Bill Payment

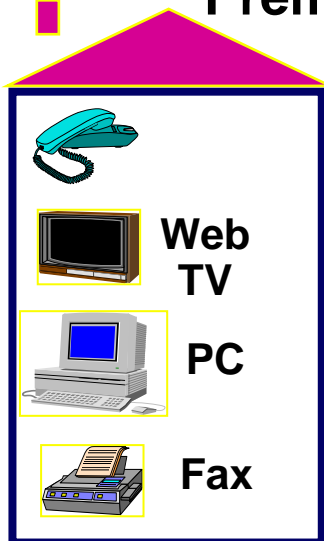


City Hall

Other Government
Services (MOE, MOH etc.)



Homes/ Business
Premises



Public Places
(kiosks)



Approved
Site



Service Providers

Gateway Provider

Payment
Consortium

Government
Multipurpose Card

Financial
Network



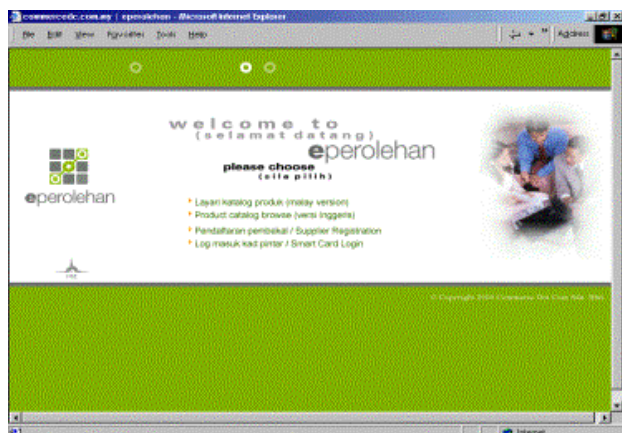
Enables citizens and businesses to conduct transactions through a one-stop service window

BENEFITS

- ✓ **Provides choice of multiple delivery channels**
- ✓ **Accessibility and convenience offered by extended hours, 24 hours, 7 days a week**
- ✓ **Multiple services via a single window of access**
- ✓ **Enhanced efficiency and effectiveness of Government services**



BUYING AND SELLING VIA THE NET



Electronic Procurement

Suppliers publish Catalogues on EP

Supplier Registration/
Central Contract

Suppliers receive orders from Government

Government Users browse catalogues
& place orders online

Government publishes Request For Tender on EP
for new supplies

Direct Purchase,
Quotation, Tendering

Government awards contract to Suppliers

Suppliers submit
quotations



Allows the Government to conduct procurement activities electronically via desktops and on-line Suppliers' Registration

BENEFITS

- ✓ **Faster turn-around time in processing procurement transactions**
- ✓ **Enables government to become a “smart buyer”**
- ✓ **On-line submission of Supplier's registration any day, anytime**
- ✓ **Cost saving to the Government & Suppliers**



An electronic office environment to enhance productivity through better information management, communications and collaboration

- Check electronic mail, meeting schedule, and filtered news
- Accessing documents online
- Assigning tasks electronically





Provides fully integrated, distributed & scalable paperless environment via open system platform

BENEFITS

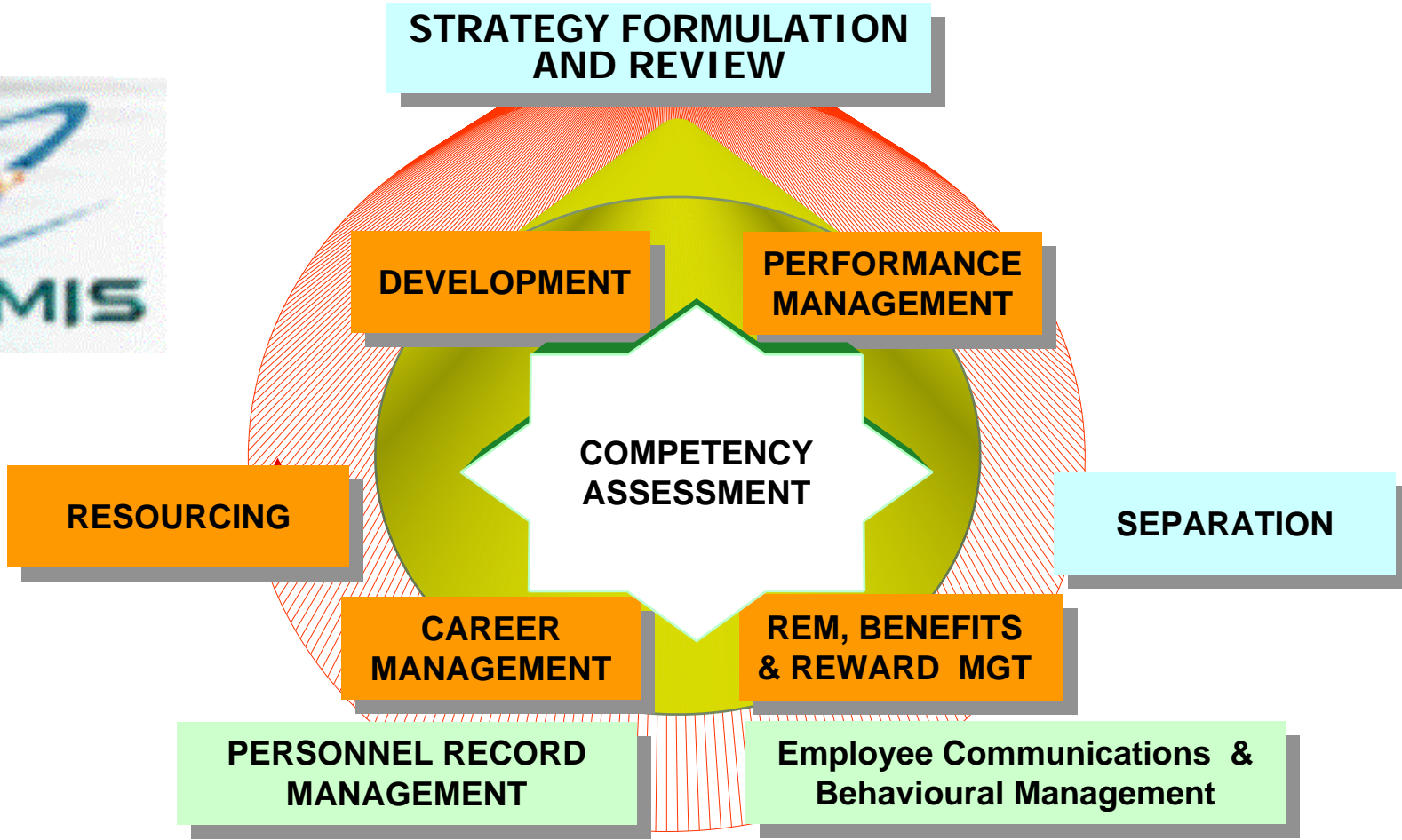
- ✓ **Enables transparency & timely decision making**
- ✓ **Ensures right information gets to the right people at the right time**
- ✓ **Enables effective collaboration across agencies**



Human Resource Management Information System



A system providing full HRM functionality for the Government to develop and manage its human capital





Human Resource Management Information System



**Provides a single interface for Government employees
to perform human resource functions**



BENEFITS

- ✓ **Facilitates effective HR management**
- ✓ **Enables horizontal integration & streamlined human resource functions**



Project Monitoring System (SPP II)



An on-line end-to-end project monitoring system creating a collaborative environment for better management of development projects

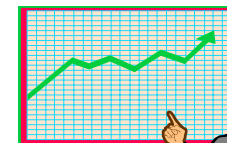
Consistent and timely information from centralised databases



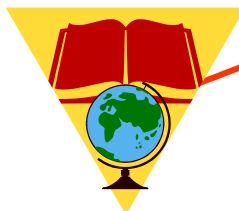
Information can be retrieved by agencies at any time



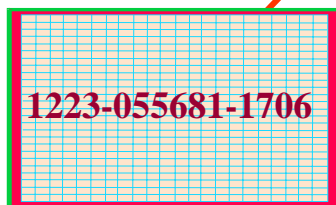
Capability to conduct social impact analysis and simulation & forecasting in Phase 2 of the project



Graphical and multimedia features and functions



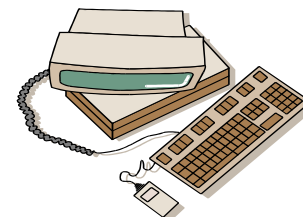
Standardisation of project codes for consistency



Flexibility to produce reports according to requirements



Sending of real time online information electronically





Project Monitoring System (SPP II)



Provides a mechanism for monitoring the implementation of development projects across agencies



BENEFITS

- ✓ **Timely and accurate project development status**
- ✓ **Paperless monitoring system**



Electronic Labour Exchange (ELX)



JOB SEEKERS

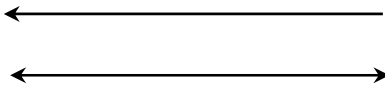


PROSPECTIVE EMPLOYERS



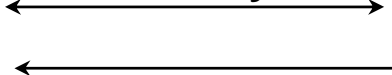
PLACEMENTS

**Job Counseling
Advice**



**Registration of
Job seeker**

**Registration of
Vacancy**



**Details of Job
Candidates**

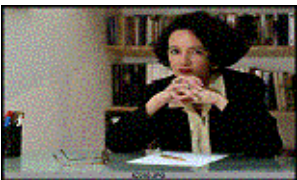
**Notification of
Placements**



**JOB COUNSELING &
COMPLAINT SERVICES**



**REGISTRATION
COUNTER SERVICES**



**JOB MATCHING &
INTERVIEW SERVICES**



LMD

- **Consolidation of prospective employment statistics from regional**

Data

JCS Processing Engine



- **Update registration of prospective employers and job vacancies**
- **Update registration of job seekers / applicants**
- **Distribute job seeker / application and vacancy information**
- **Perform job matching**
- **Distribute job matching**

A one-stop centre for labour market information and systematic matching of job seekers to job vacancies



Electronic Labour Exchange (ELX)



- **Electronic Labour Exchange contains three primary applications**
 - **Job Clearing System**

Free service to match vacancies to job seekers
 - **Labour Market Database**

Central repository of data for MOHR and its agencies
 - **Office Productivity System**

Office productivity tools and applications
- **ELX went live on 30th May 2002 and was fully rolled out to the Ministry of Human Resource and all state and district offices of Manpower Department and Labour Department totalling 119 sites.**



Electronic Labour Exchange (ELX)



To improve the mobilisation of the nation's human resources and to provide one-stop centre for labour market information



BENEFITS

- ✓ **Systematic matching of job seekers to job vacancies**
- ✓ **Accurate real time labour market data**
- ✓ **Enhanced Job Counseling Services**



- **Commencement Date: 18 April 2002.**
- **Target Locations: 102 sites.**
- **Implementation timeline: 3 years (2002-2005).**
- **Officially launched by the Prime Minister on February 7, 2003**

Objectives:

- **To improve the quality of services of *Syariah* Courts.**
- **To improve the effectiveness of JKSM in coordinating and monitoring their respective agencies.**
- **To improve the productivity and efficiency of *Syariah* Courts management nationwide.**
- **To uphold the Islamic values with the usage of ICT.**



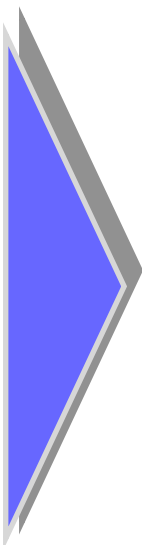
**Provides efficient and quality management of
Syariah Court**

BENEFITS

- ✓ **Speed up the judicial process under syariah law**
- ✓ **Facilitate the registration and management of Syarie Lawyers**
- ✓ **Information centre for Syariah Court community and public**



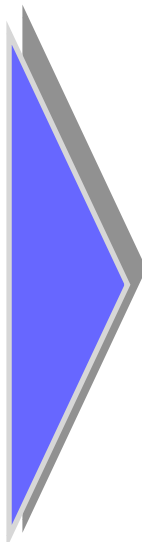
E-Courts and E-Land



E-Courts

Objective

To improve productivity and efficiency in the justice system through ICT



E-Land

Objective

To increase the efficiency and effectiveness of land administration.

Challenges...





Issues and Challenges



- ✓ **Reengineering and Streamlining of Current Processes**
- ✓ **Managing Diverse Technologies and Obsolescence**
- ✓ **Integration and Interoperability of E-Government, Other Flagship Applications and Legacy Systems**
- ✓ **Information Privacy and Security**





Issues and Challenges

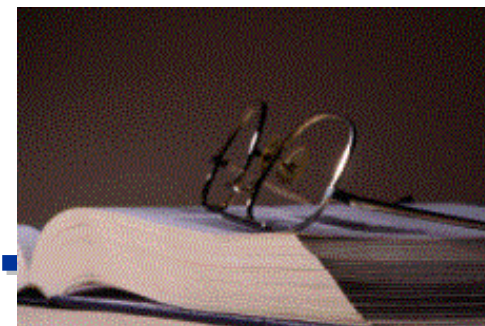


- ✓ **Education, Training and Accessibility**
- ✓ **Change Management**
- ✓ **Human Resource Implications**
- ✓ **Funding**





Lessons Learned...





Lessons Learned



- **Start small, deliver value**
- **Delivering technology is just a small portion of the BIG picture and it is the easy part**
- **Critical Success Factors and state of readiness are very critical**
- **Rome wasn't built in a day...expect slow progress**
- **Change management is vital...provide mindset change programme**



Lessons Learned



- **Lay the basic building blocks first**
- **Strong project management team**
- **Strong human resource development programme**
- **Develop a continuous marketing and promotion campaign**
- **Choice of contract model (outright purchase, BOT, BOO)**



The Malaysian Public Sector Strategic ICT framework





Framework To Achieve Vision



ICT Framework

Governing Structure

Shared ICT Infrastructure

Single Gateway

Multiple Delivery Channels

Government-Wide Common Systems

Standards and Guidelines

Policies and Legislation

ICT Skills and Knowledge Personnel



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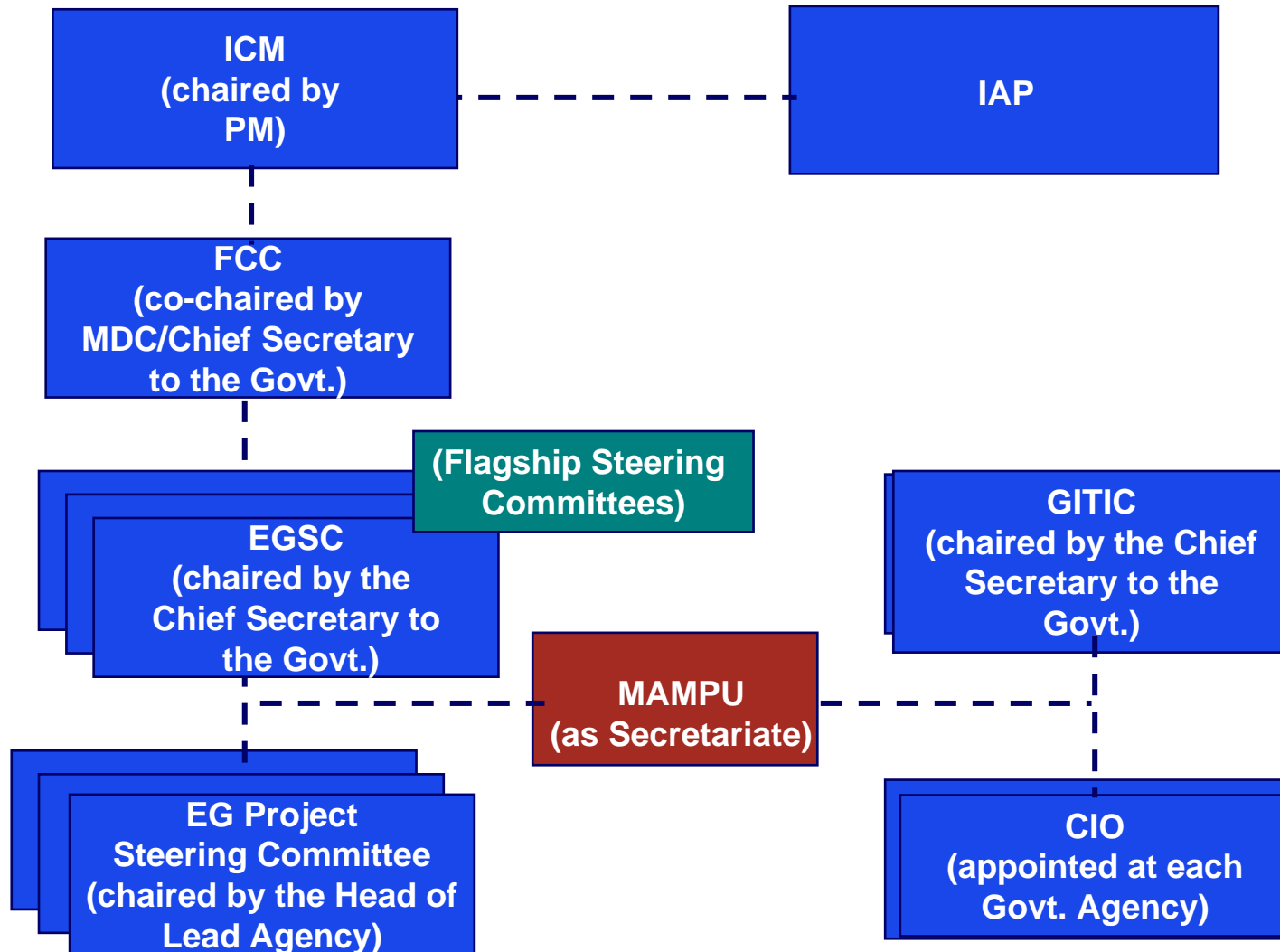
Government-Wide Common Systems

Standards and Guidelines

Policies and Legislation

ICT Skills and Knowledge Personnel

Administrative Mechanisms and implementation struture





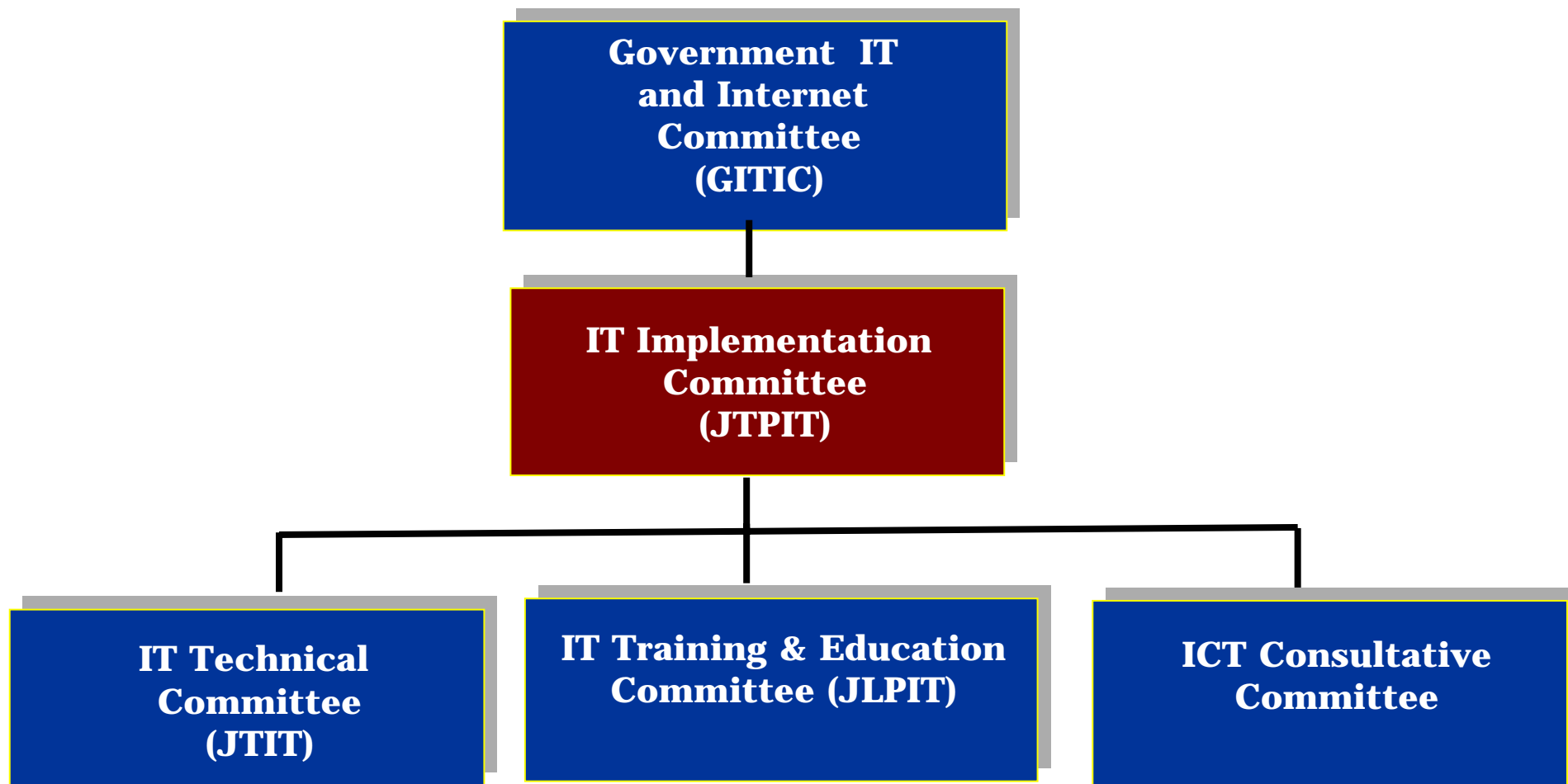
- To date, 180 CIOs have been appointed.
- Number of CIOs by type of agency:

Ministry	25
State Governments	13
Federal Departments	79
Federal Statutory Bodies	63



Governing Structure

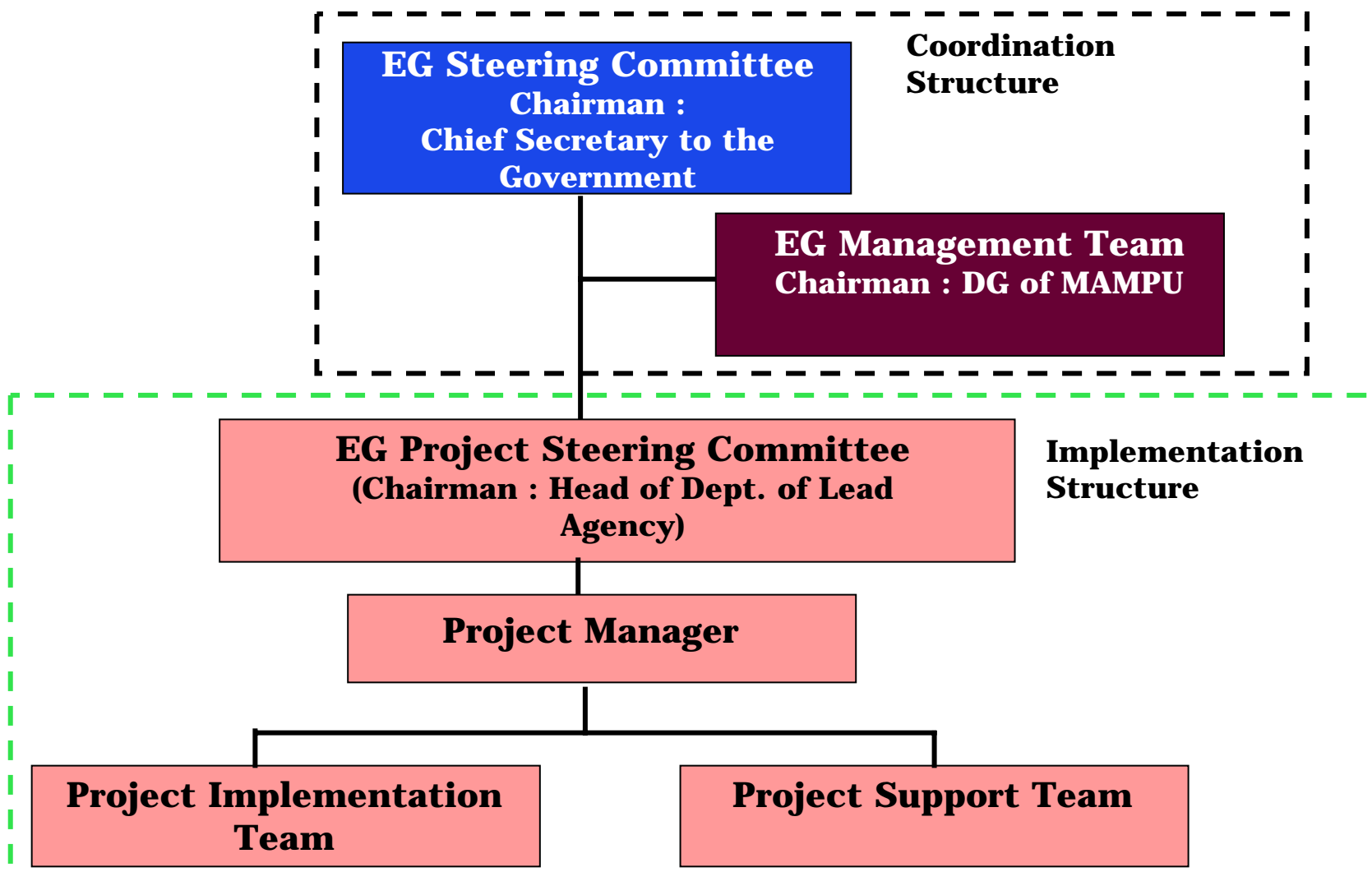
Governing Structure Under GITIC





Governing Structure

Governing Structure Under Electronic Government





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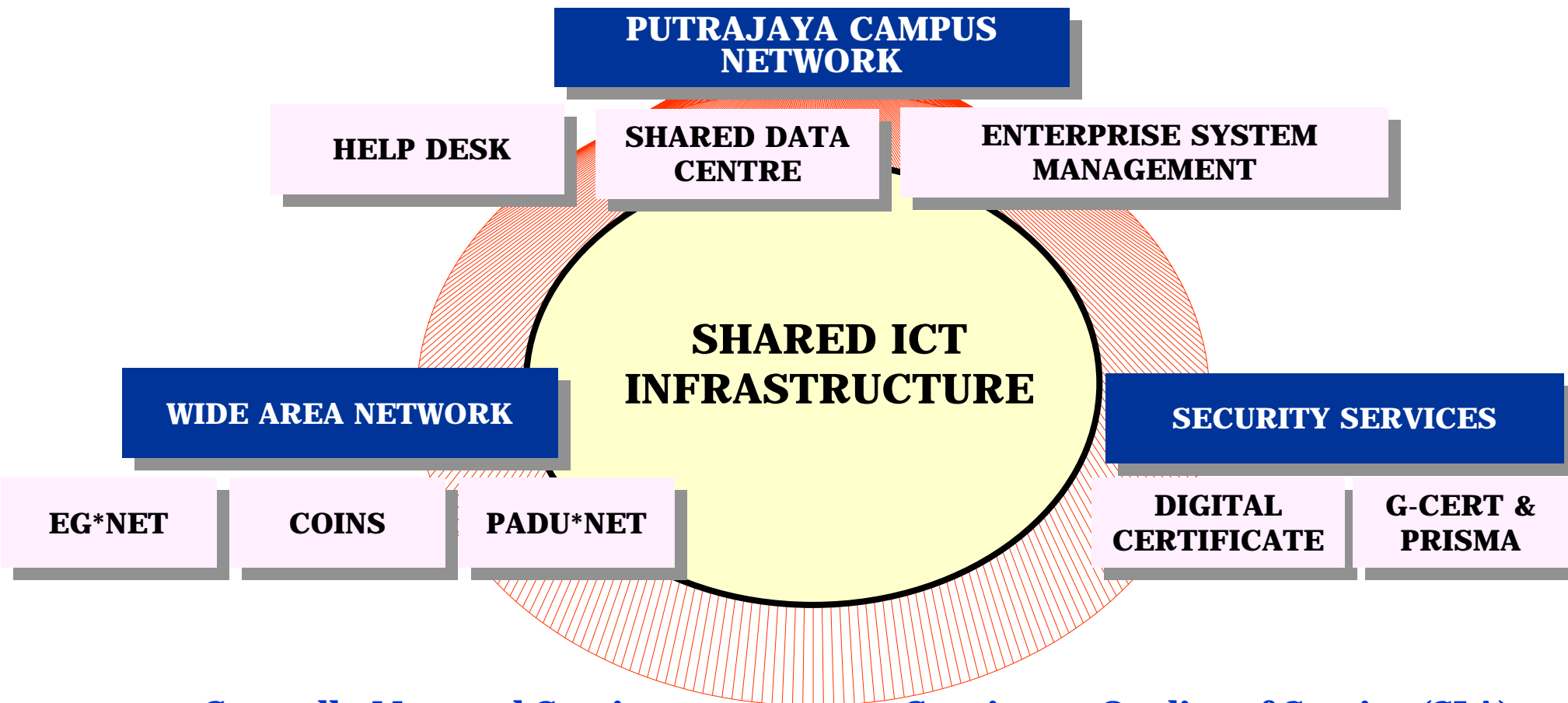
ICT Skills and Knowledge Personnel



Shared ICT Infrastructure



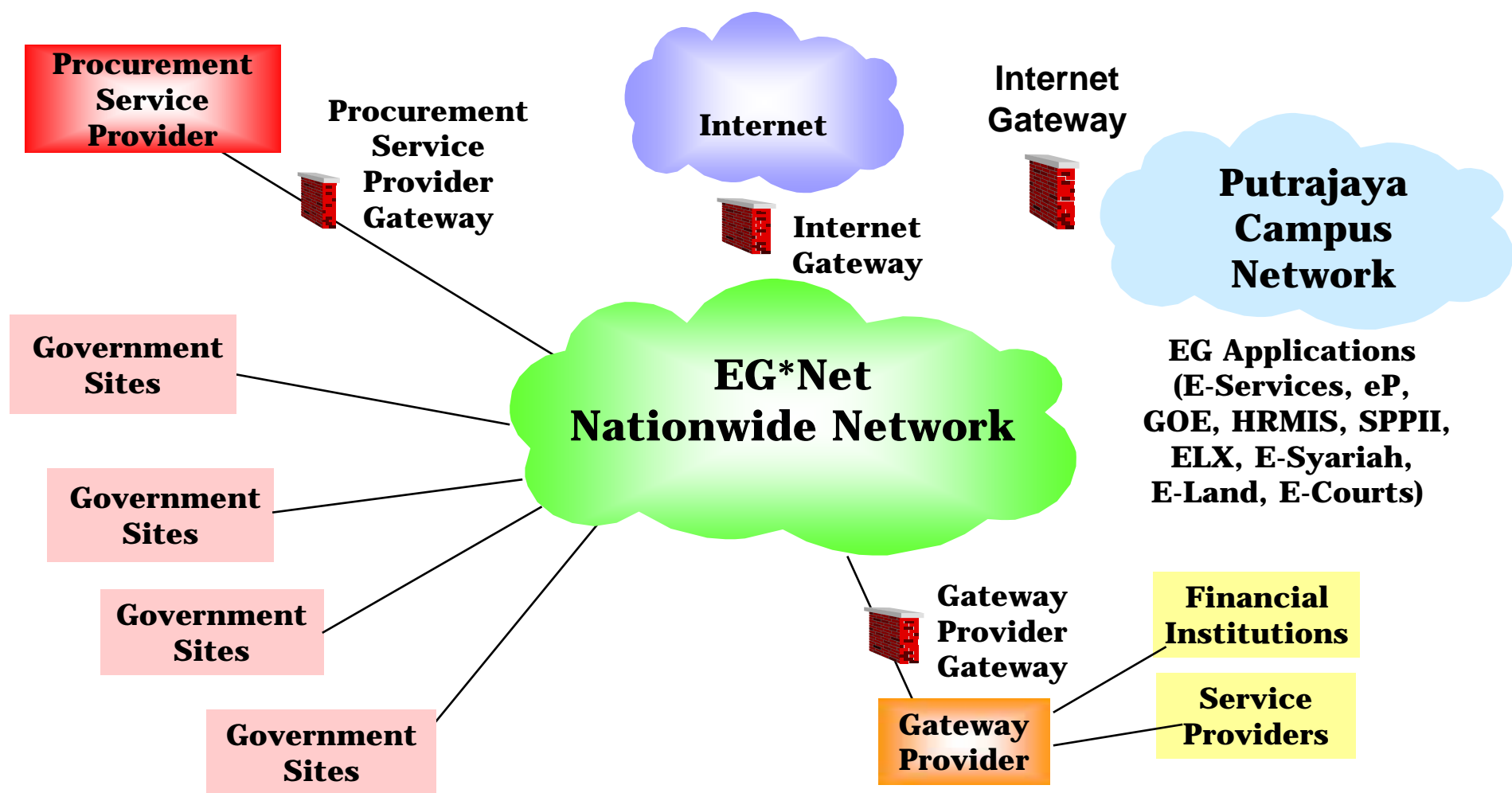
Shared Infrastructure Initiatives



- Centrally Managed Service
- Consistent Quality of Service (SLA)
- Effective Sharing of Resources
- Comprehensive Security Services

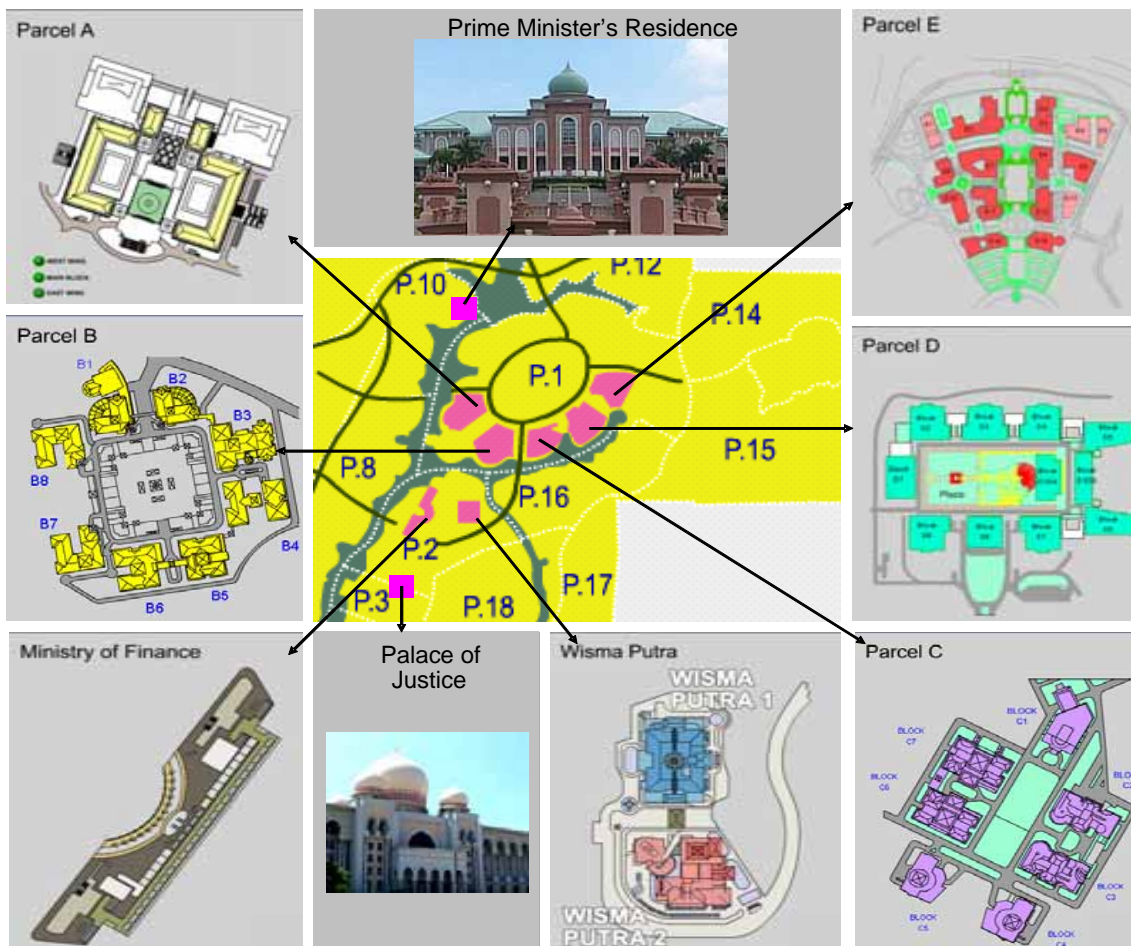


Wide Area Network





Putrajaya Campus Network (PCN)



Putrajaya Campus Network

- **78 agencies**
- **25,038 users**
- **2,600 network switches**
- **Targeted 99.5% service availability**



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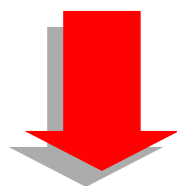


Single Gateway



Public Service Portal (PSP)

**900 websites across
Federal, State and Local
Authorities, Malaysian Civil
Service Link (MCSL)**



myGovernment Portal :

- **Citizen-Centric & Business Community Portal**
- **Single access to multiple communities**
- **1966 forms and 218 online services**





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Multiple Delivery Channels



- **Web**
- **Telephony/
IVR**
- **Kiosks**
- **SMS**
- **Face-To-Face**

e.g. E-Services

JPJ Electronic Test Taking

- ✓ **Before – Once a week, 50 candidates per week**
- ✓ **After – 8 Sessions per day, average 560 candidates a week.**

Enquiry and Payment of Traffic Summons

- ✓ **Before – Inquiry via POLISinfoline & SMS, payment office hours at counters**
- ✓ **After – Inquiry & payment online via the Internet, 24 X 7**

e.g. PBT

Payment by credit card & through banks

e.g. JUPEM

Sale of maps via pre-paid mode



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Government-Wide Common Systems



E-Government

Impact

Transform the administrative processes

Completed & Rolled-Out

SPPII

GOE

E-SPKB

E-Syariah

E-Procurement

In Progress

HRMIS

E-Courts

E-Land

GFMAS

Multimedia Super Corridor (MSC)

Impact

Provide amenities improving citizens' quality of life

Smart Schools

MyKad

Telehealth



Government-Wide Common Systems



Numerous agency-specific applications enhancing back-end operations, improving public-facing service delivery...

Other Systems

Impact

Shorter processing time

Impact

Improved agencies' operational functions

Front-end systems...

Land Application and Monitoring System (LAMS)

Traffic Compound Online Payment System (COPS)

Sistem Informasi Kenderaan dan Pemandu (SIKAP)

Sistem Kawalan Imigresen

Sistem Pasport dan Dokumen Perjalanan

Back-end systems...

Standard Accounting System for Govt Agencies (SAGA)

Agency Link Up System (ALIS)

Sistem Informasi Rekod Penduduk Negara (SIREN)

Sistem Kutipan Hasil



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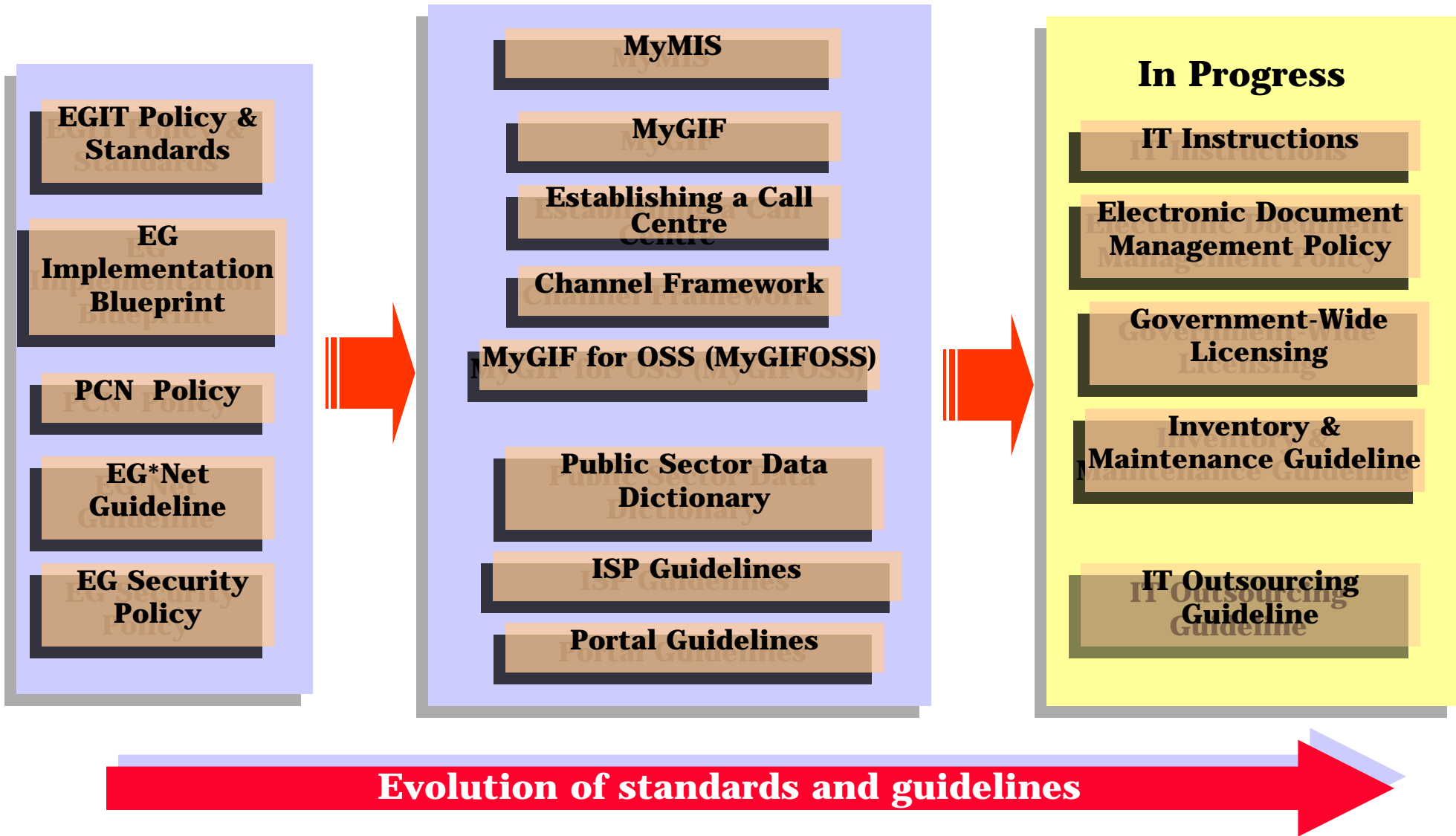
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Standards & Guidelines





Framework To Achieve Vision



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ICT Skills and Knowledge Personnel



Policies & Legislation



Completed



Digital Signature Act 1997



Copyright (Amendment) Act 1997



Computer Crimes Act 1997



Telemedicine Act 1997



Communications & Multimedia Act 1998

In Progress

**Electronic
Government
Activities Act (EGAA)**

**Electronic
Transactions Act
(ETA)**

**Personal Data
Protection Act**





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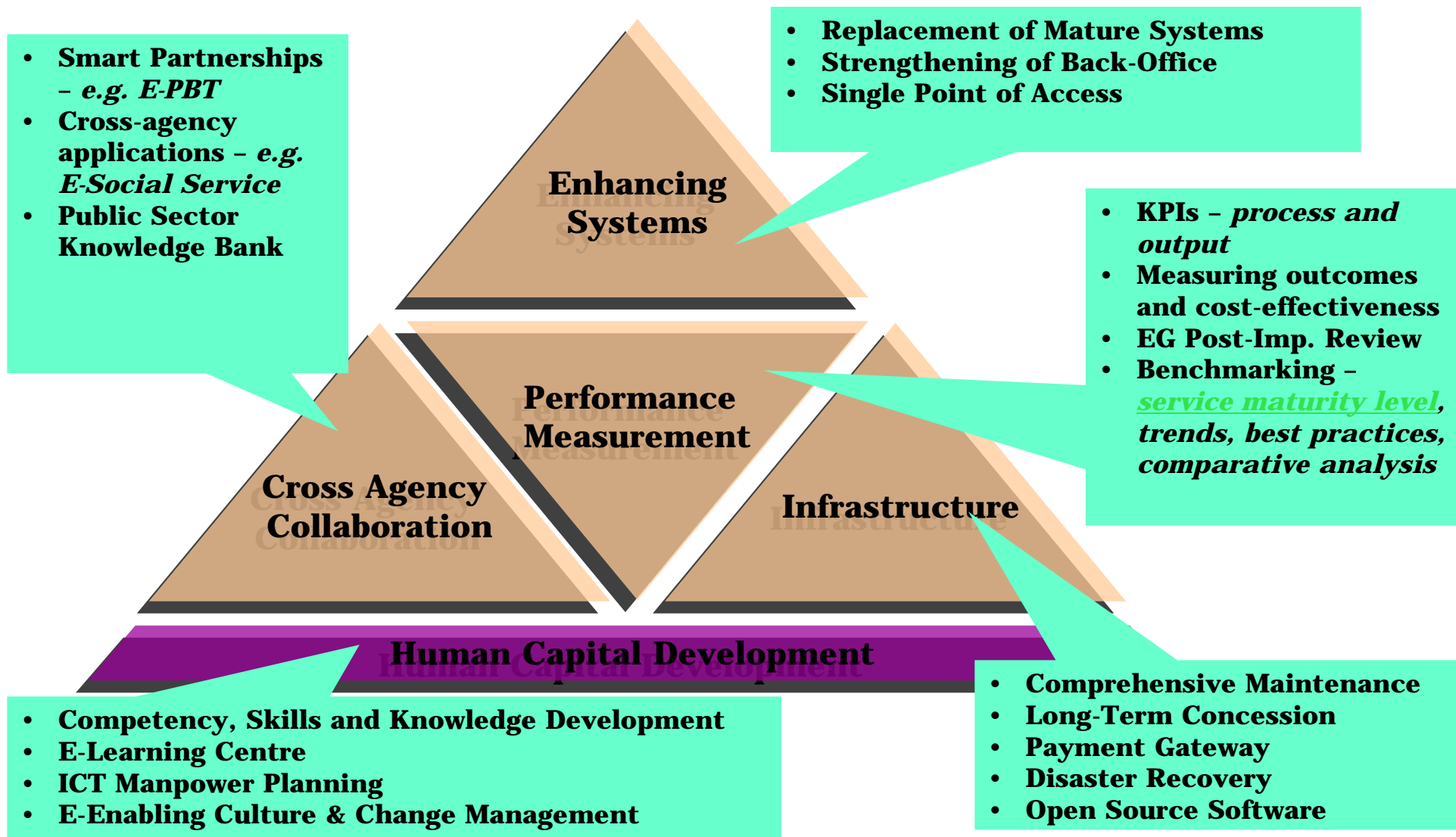


Efforts towards ICT human capital development ...

- **ICT Manpower Study** – *to identify the ICT human resource requirements in the Public Sector*
- **ICT Skills and Competency Assessment** – *to develop competency model to support Human Resource Management Information System (HRMIS)*
- **Setting up of INTAN Management and Technology Centre (IMATEC)** – *to enhance the training of ICT skilled and knowledge workers as well as ICT professionals in the Public Sector*



Moving Forward





“E-Government is well advanced and has become an integral component of a much broader service delivery agenda in Malaysia”





THANK YOU