

Trends in Malaysia's e-Learning Policies and Projects

e-Learning Asia Conference
Transform Learning with Technology
Seoul, Korea (3rd - 4th September 2009)

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AGENDA

1. MSC Malaysia
2. e-Learning Trends in Malaysia
3. e-Learning Trends in Policies
 - 2.1a Human Capital
 - 2.1b Infrastructure
 - 2.1c MSC Malaysia
4. e-Learning Trends in Projects
 - 3.1a Government
 - 3.1b ICON
 - 3.1c Institute of Higher Learning
 - 3.1d K-12
5. Challenges
6. Way Forward

MSC MALAYSIA

ECONOMIC

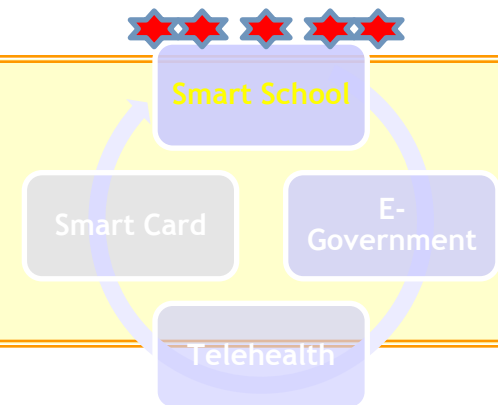


- ◆ Erosion of comparative advantages in traditional sectors
- ◆ Capitalise on ICT / Multimedia opportunities and create new growth engine

SOCIAL



- ◆ Digital Divide
- ◆ Roll-out ICT benefits



GLOBAL



- ◆ Challenge of globalisation

Migrate Malaysia Seamlessly into the Knowledge-Based Economy

MSC Malaysia Flagship Applications



SMARTSCHOOL



**TECHNOPRENEUR
DEVELOPMENT**



E-BUSINESS



R&D CLUSTER



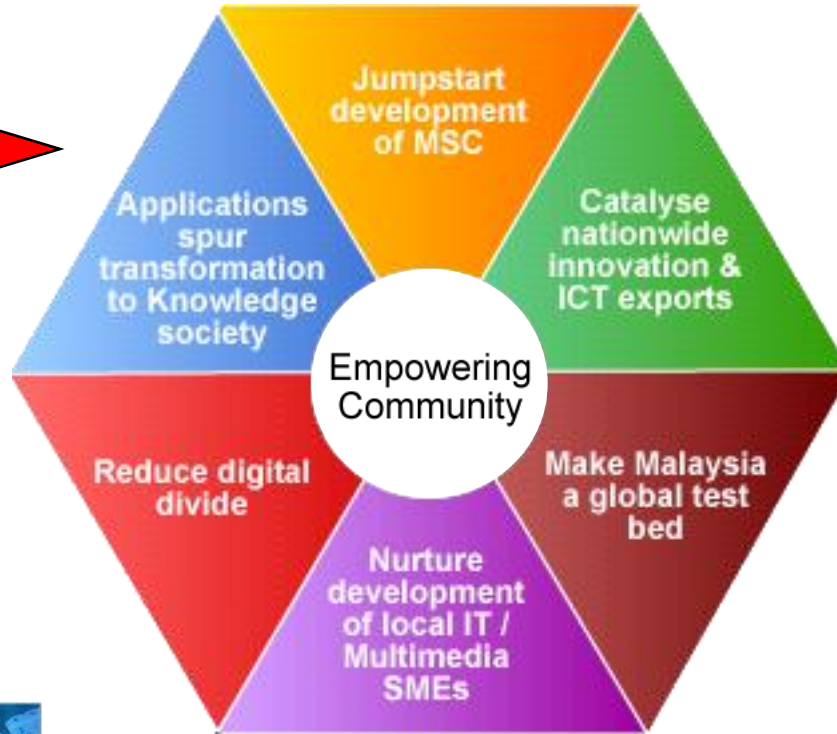
TELEHEALTH



**ELECTRONIC
GOVERNMENT**



SMARTCARD



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Global Definition of e-Learning

e-Learning is defined as: ... 'the use of technologies in *learning* opportunities'.

Source: (www.wikipedia.com)

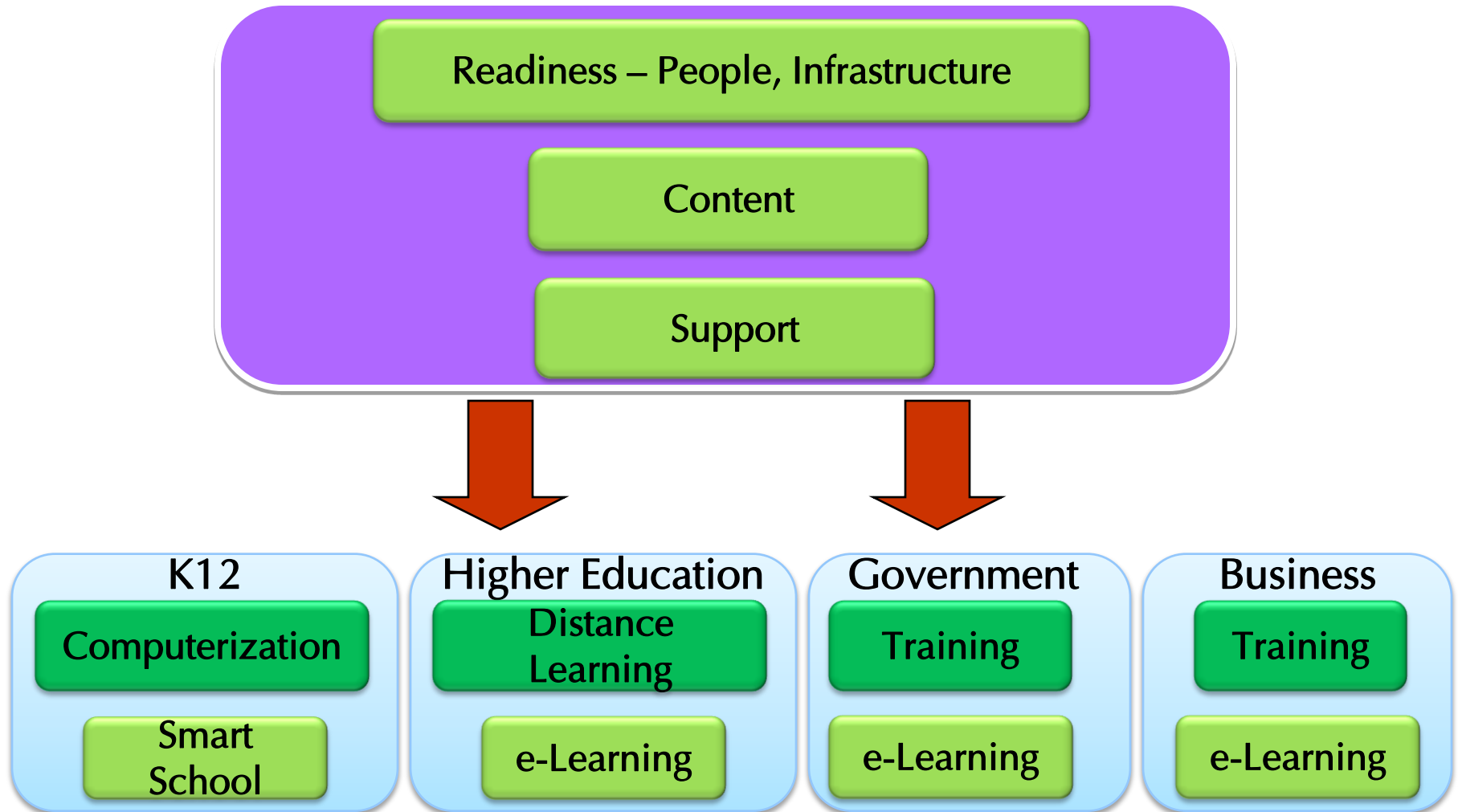
Definition of e-Learning in Malaysia

*The use of network
and multimedia technologies
to improve the quality of learning
by enabling access to knowledge
and remote resources
for the development of a K-society.*

- eLR Research WG (Feb 9, 2004)

Source: (As referred to by e-Learning Readiness in Malaysia –
A Joint Study by KTAK & OUM)

E-Learning Trends in Malaysia



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Human Capital Development

Key Delivery System

Ministry of Human Resource



Ministry of Higher Education



Ministry of Education



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Infrastructure

Extending the Reach and Sustainability of Broadband Services

High Speed
Broadband
Infrastructure
(HSBB)

Delivering 10Mbps to 1Gbps to urban and sub-urban area through new optical infrastructure

Driving broadband adoption through private sector content initiatives

Online Content
Ecosystem
Roadmap
(OCER)



BROADBAND PENETRATION

2010
50%
of Households

Delivering up to 2Mbps through various technologies in areas not covered by HSBB

2007
15.5% of 5.5 Million Households

Public Sector Content
Initiatives

Driving broadband adoption through public sector content initiatives

Broadband to
General
Population
(BBGP)



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MSC Malaysia in the Education Continuum

SUPPLEMENTARY DELIVERY SYSTEM

Smart
School

K-12



K-Workers
Development

Tertiary



Technopreneur
Development

Post-Tertiary



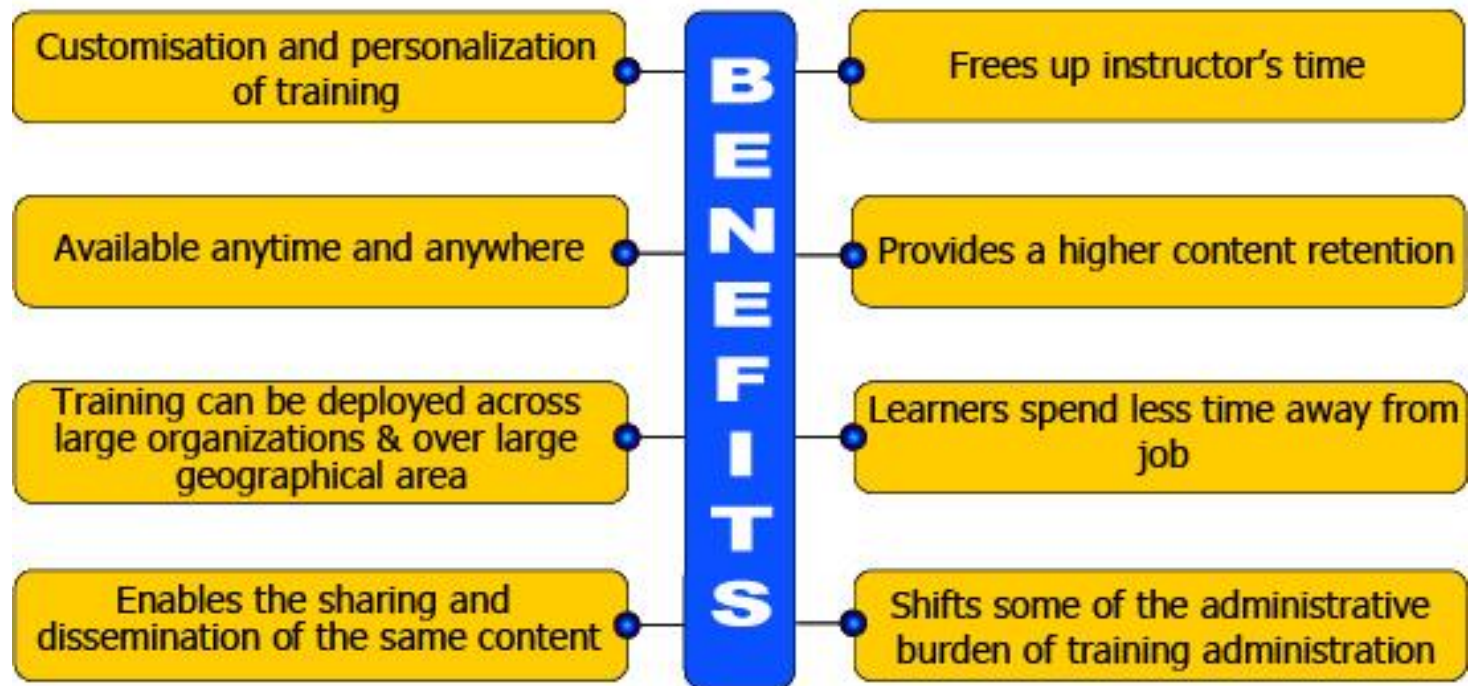
e - L e a r n i n g

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E-Learning for Public Sector (EPSA)

- ❖ **Public Sector e-learning portal with state-of-the-art communication, collaboration, content delivery and learner assessment capabilities.**

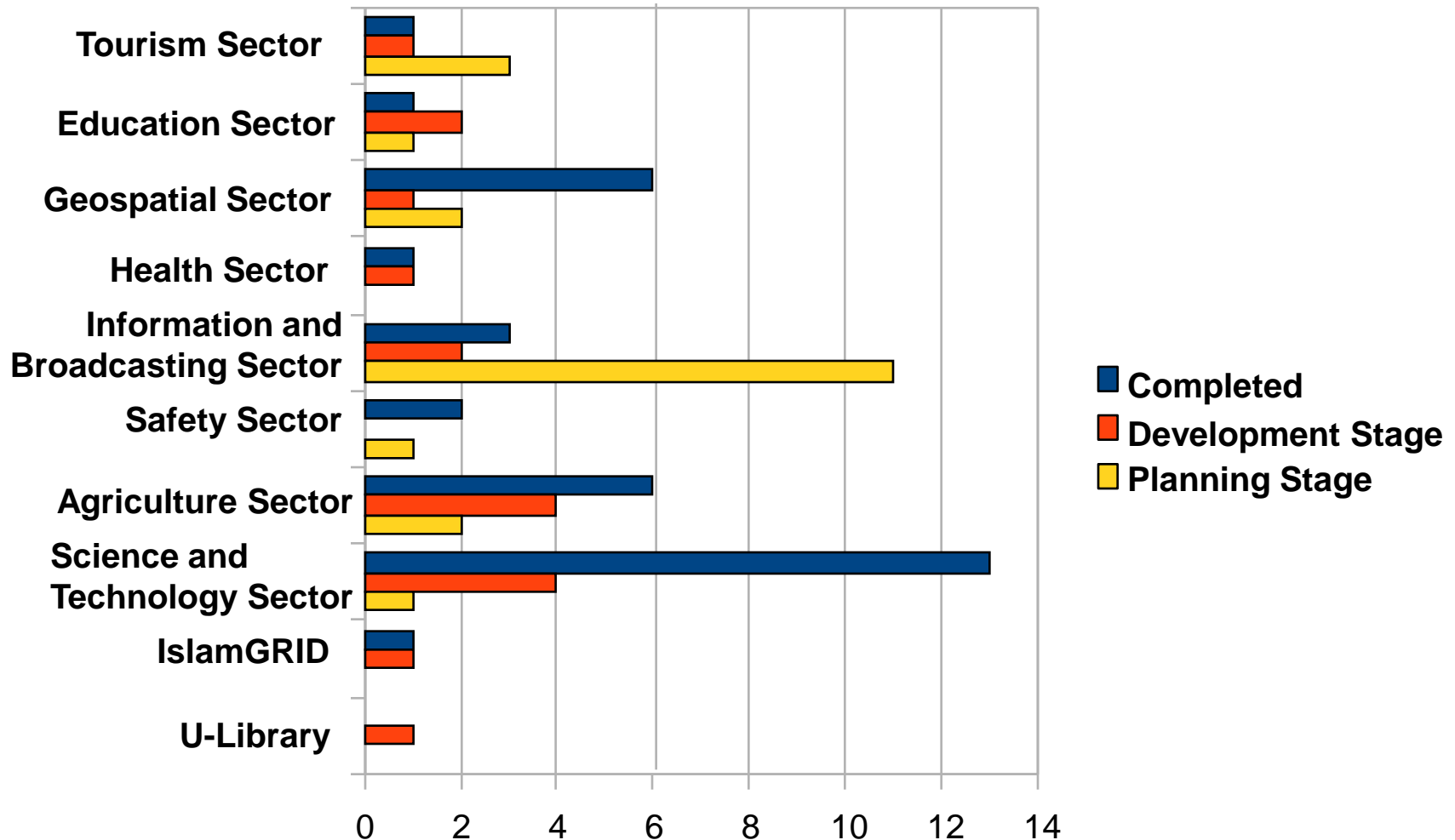


(Source: <http://www.epsa.intan.my/wps/portal>)

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ICON PROJECT

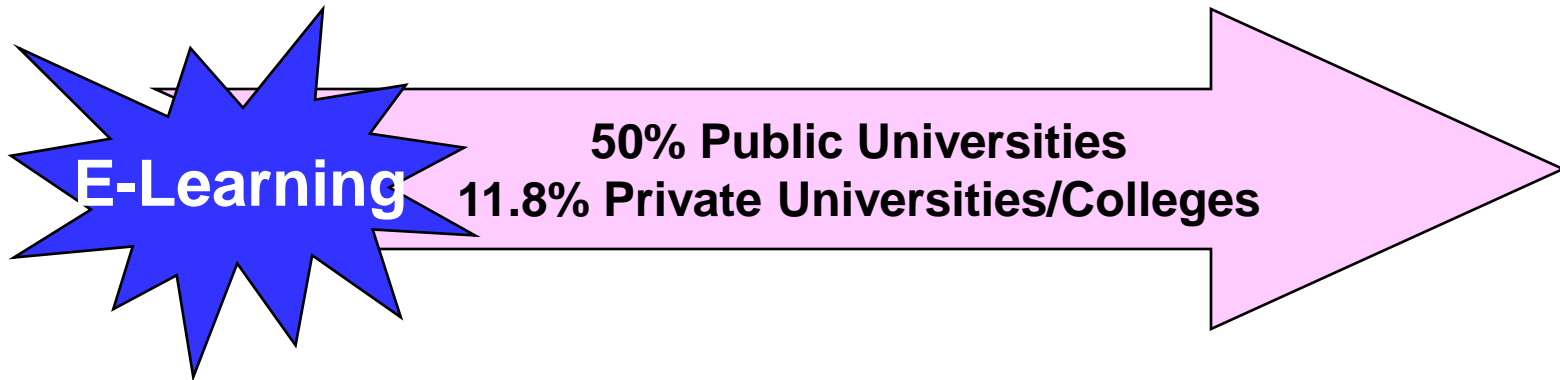


Source: Malaysian Administrative Modernisation and Management Planning Unit (MAMPU)

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Institute of Higher Learning



(Source: <http://www.mohe.gov.my>)

Institute of Higher Learning: University Tun Abdul Razak (UNITAR)

Virtual University



Access to Educational
Applications



Equitable
Educational
Access and
Services



Skilled Workforce
and Professionals



Intranet



Learning
Technologies

(Source: <http://www.unitar.edu.my/>)

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The MSC Malaysia Smart School: Implementation Wave for K-12

Wave
1

Pilot Phase (1999 – 2002)
88 school nationwide selected

Wave
2

Post-Pilot (2002 – 2005)
Massive computerization phase to all 10,000
schools

Wave
3

Making All Schools Smart (2005 -
2010)
Leveraging all ICT initiatives

Wave
4

Consolidate & Stabilize (2010 –
2020)
Innovative practices using ICT enculturated

MDeC'S ROLE IN MAKING ALL SCHOOLS SMART (1999 - current)

2006 - 2008

Smart School
Qualification
Standards
(SSQS)

Best Practices
on Integration of
ICT in Teaching
& Learning

Innovative Tools
in Teaching &
Learning

Professional
Development
Modules

Centralised
Service Desk
(CSD)

Implementation
Model

10,000
schools

88
BENCHMARKED
SMART SCHOOLS

50
BENCHMARKED
RURAL SMART
SCHOOLS

Human capital
for the 21st
century

OUTCOMES

INCREASED IN ICT
PERFORMANCE AND
EFFICIENCY
INCREASED IN ICT
UTILIZATION AND
ACCEPTANCE

Integration of ICT

✓ Est. 3000 CDRI Courseware
 ✓ E-Bahan – 1293 titles
 ✓ WebTV Content

Utilization Strategies
 • E.g. Using ICT in T&L

School Ranking	Indicators	BASIC	BASIC PLUS	MEDIAN	ADVANCED	ADVANCED PLUS
Smart School Indicators		★ (0 < x < 20%)	★★ (20% ≤ x < 40%)	★★★ (40% ≤ x < 60%)	★★★★ (60% ≤ x < 80%)	★★★★★ (x ≥ 80%)
UTILIZATION (40%) - ICT integration in teaching, learning and school administration	Usage of ICT-based content by teachers to develop new teaching materials	Once in 2 months	Once a month	Once in 3 weeks	Once in 2 weeks	Once a week
	Usage of learning content mgmt. system by student	1 assignment per month	2-3 assignments per month	4-5 assignments per month	6-7 assignments per month	≥8 assignments per month

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HUMAN CAPITAL (40%) - ICT competency of Administrator, Teachers, IT Coordinators and Students	ICT competency level of teachers	Very Low	Low	Average	High	Very High

Application
 • E.g. School website

ICT Plan

Human Capital
 • E.g. Level of ICT Competency of teachers

School Ranking	Indicators	BASIC	BASIC PLUS	MEDIAN	ADVANCED	ADVANCED PLUS
Smart School Indicators		★ (0 < x < 20%)	★★ (20% ≤ x < 40%)	★★★ (40% ≤ x < 60%)	★★★★ (60% ≤ x < 80%)	★★★★★ (x ≥ 80%)
APPLICATION (10%) - IT Coordinator for the schools	Must have a website for the school	One website	One website and updated	One website, updated with one of the following criteria: • Maintained • Interactive • Downloadable materials	One website, updated with two of the following criteria: • Maintained • Interactive • Downloadable materials	One website, updated with one of the following criteria: • Maintained • Interactive • Downloadable materials

Infrastructure
 • E.g. Internet Accessibility

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Smart School Indicators		★ (0 < x < 20%)	★★ (20% ≤ x < 40%)	★★★ (40% ≤ x < 60%)	★★★★ (60% ≤ x < 80%)	★★★★★ (x ≥ 80%)
INFRASTRUCTURE (10%) - Administrator and IT Coordinators	Internet accessibility	1 location	2 locations	3 locations	4 locations	≥ 5 locations

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Challenges

❖ **People**

- ✓ Not ready due to skill and lack of confidence with an online approach
- ✓ No critical mass
- ✓ Lack of confidence

❖ **Infrastructure**

- ✓ Limited access to broadband
- ✓ Unreliable support

❖ **Content**

- ✓ Not differentiated from face-to-face approach
- ✓ Not sustainable

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Way Forward

E-LEARNING POTENTIAL IN MALAYSIA

INNOVATION-LED
ECONOMY

HIGH SPEED
BROADBAND (HSBB)

DIGITAL CONTENT
DEVELOPMENT

DEMAND
CREATION

NEW
SOURCES OF
GROWTH IN
ICT

Thank You



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