

OUM Seminar Series 17 October 2017

Smart School Evaluation

Soon Seng Thah

Presentation Outline

- 1 Introduction
- Evaluation Methodology
- **3** Roles and Responsibilities
- 4 Instrumentation
- **5** Findings and Star Ratings
- Strategy for Sustainability
- Way Forward

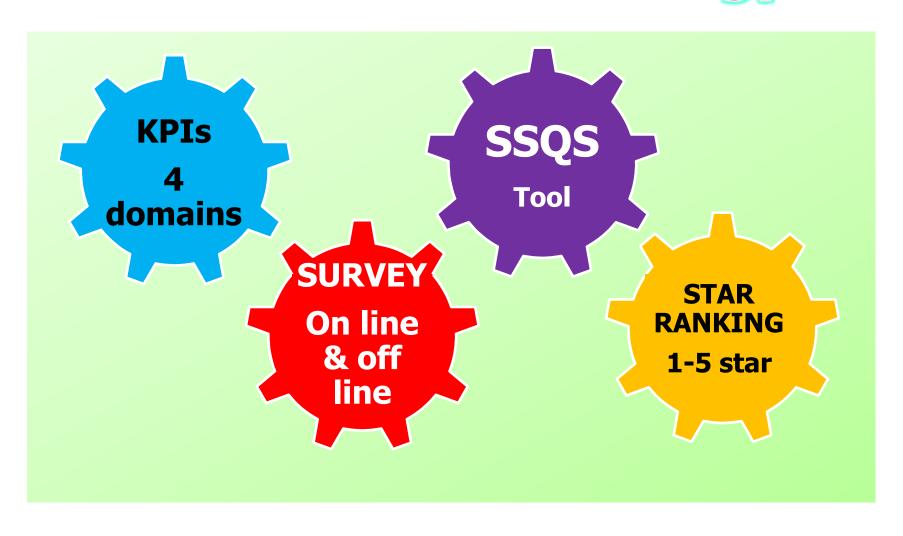
Introduction: Smart Schools

Studentcentred teaching & learning Catering to different learning styles Students
exhibit
Higher-Order
Thinking
Skills
Self-paced
Selfaccessed
Self-directed

Teachers, and Administrators skillful in using ICT in daily tasks Creative and innovative teachers using ICT as enabler and accelerator for better teaching and learning

Smart partnerships with various agencies

Evaluation Methodology



SSQS DOMAINS

Infrastructure
10%
9 Indicators
10%
7 indicators



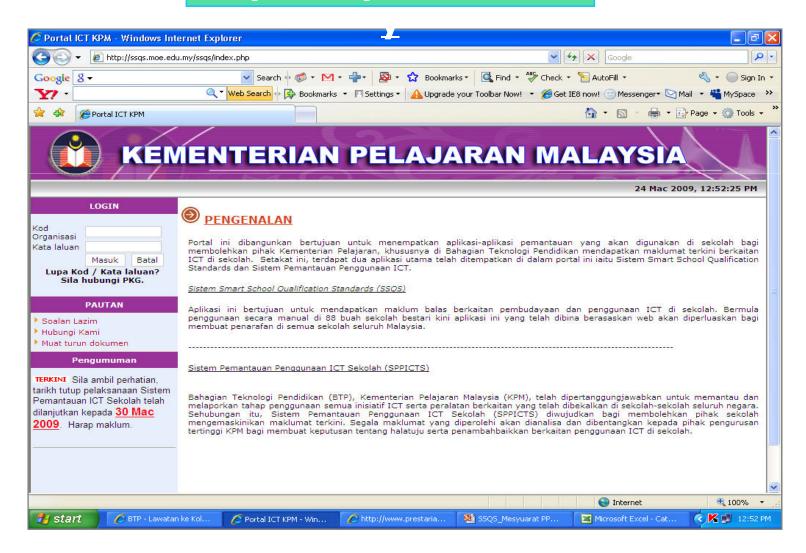
Human Capital 40% Utilization 40% indicators

Making All Schools Smart



SSQS ONLINE SYSTEM

http://ssqs.moe.edu.m

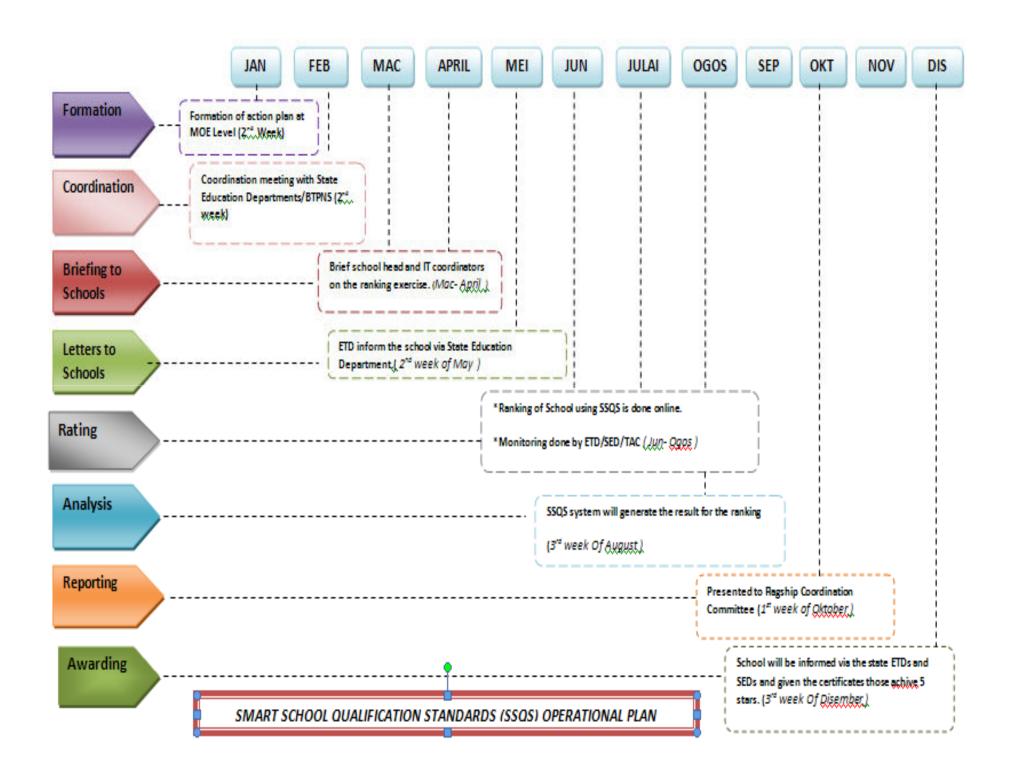


RESPONDENTS AT THE SCHOOL LEVEL

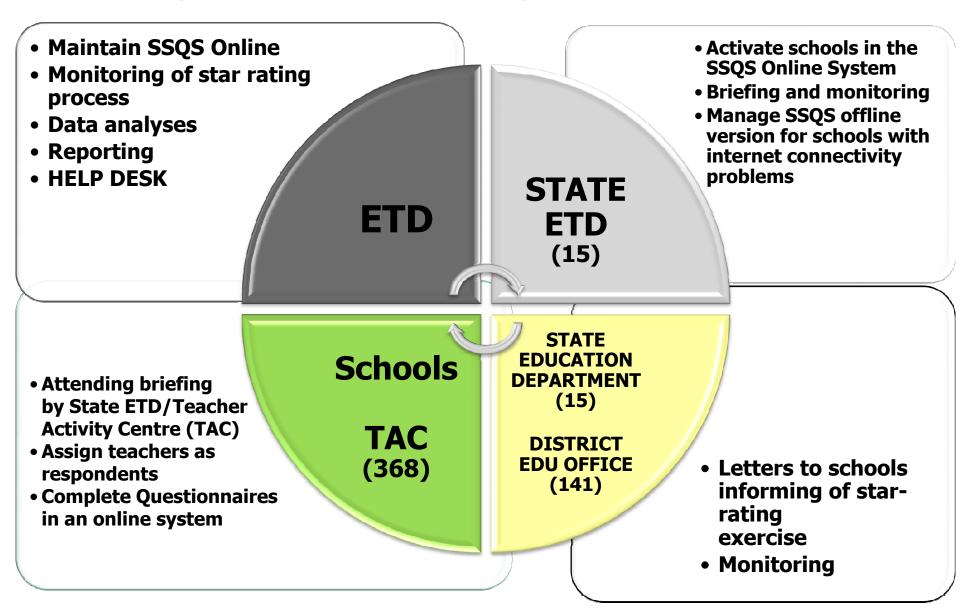
- **4** 1 Administrator
- **4** 1 IT Coordinator
 - 30 Teachers
 - 30 Students







ROLES AND RESPONSIBILITIES



Smart School Qualification Standards (SSQS)

Smart Ranking School Indicators	Indicators	BASIC ** (0 < x < 20%)	BASIC PLUS ★ ★ (20% ≤ x < 40%)	MEDIAN ★ ★ ★ (40% ≤ x < 60%)	ADVANCED ★ ★ ★ ★ (60% ≤ x < 80%	ADVANCED PLUS
UTILIZATION (40%)	Usage of ICT-based applications by administrators in school management	1 application	2 applications	3 applications	4 applications	≥ 5 applications
- ICT integration in teaching, learning and school administration	Usage of Web-based School Management System/other ICT-based system by administrators in school management	once a month	once in 3 weeks	once in 2 weeks	once a week	daily
	 Usage of ICT equipment (other than computer) by administrators in school management 	once a month	once in 3 weeks	once in 2 weeks	once a weeks	daily
	 Usage of electronic tools (email, SMS, etc) for dissemination of information by administrators 	once a month	once in 3 weeks	once in 2 weeks	once a week	daily
	Integration of courseware or ICT-based teaching materials by teachers in teaching & learning for each subject	≤1 period per month	2-3 periods per month	4-5 periods per month	6-7 periods per month	≥ 8 periods per month
	 Usage of Learning Content Management System by teachers in teaching & learning 	≤ 60 minutes per month	61-120 minutes per month	121-180 minutes per month	181-240 minutes per month	≥ 241 minutes per month
	Usage of Educational TV content by teachers in teaching & learning	1 period per month	2 period per month	3 periods per month	4 Periods per month	≥ 5 periods per month
	Usage of educational technology equipment (other than computer & TV) by teachers in teaching & learning	1 period per month	2 period per month	3 period per month	4 periods per month	≥ 5 periods per month
	 Usage of internet by teachers for seeking information in teaching & learning 	≤ 60 minutes per month	61-120 minutes per month	121-180 minutes per month	181-240 minutes per month	≥ 241 minutes per month
	 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
	 Student-PC contact hours during school hours for any subjects 	≤ 60 minutes per month	61-120 minutes per month	121-180 minutes per month	181-240 minutes per month	≥ 241 minutes per month
	12. Usage of Learning Content Management 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
	13. Usage of self-learning modules by student	1 title per month	2-3 titles per month	4-5 titles per month	6-7 titles per month	≥ 8 titles per month

Smart Ranking School Indicators	Indicators	BASIC ★ (0 < x < 20%)	BASIC PLUS ★ ★ (20% ≤ x < 40%)	MEDIAN ★★★ (40% ≤ x < 60%)	ADVANCED ★★★★ (60% ≤ x < 80%	ADVANCED PLUS * * * * * * (x ≥ 80%)
UTILIZATION (40%)	14. Student-PC contact hours after school hours for learning purposes	≤ 60 minutes per week	61-120 minutes per week	121-180 minutes per week	181-240 minutes per week	≥241 minutes per week
 ICT integration in teaching, learning and school 	15. Usage of Resource Centre/Access Centre for ICT-related work by student	Once a month	Once in 3 weeks	Once in 2 weeks	Once a week	Daily
administration	 Update of activities and data on the relevant modules by IT Coordinator in Web Based School Management System/ other ICT-based system 	Once a year	Once in 6 months	Once every 3 months	Monthly	Weekly
	17. Update of school portal by IT Coordinator	Once a year	Once in 6 months	Once every 3 months	Monthly	Weekly
HUMAN CAPITAL	ICT competency level of Administrator	Very Low	Low	Average	High	Very High
(40%) – ICT competency of Administrators.	Number of ICT-related courses attended by Administrator in the last 3 years	1	2	3	4	≥ 5
Teachers, IT Coordinators	Frequency of ICT Smart-partnership programme with community	once a year	twice per year	6 times a year	monthly	weekly
and Students	Number of in-house ICT training courses conducted	1-2 per year	3-4 per year	5-6 per year	7-8 per year	≥9 per year
	 Frequency of dissemination of information regarding ICT by Administrator 	once a year	twice a year	6 times a year	monthly	weekly
	 Frequency of change management conducted by Administrator 	once a year	twice a year	4 times a year	6 times a year	monthly
	 Number of types of ICT-related support from the community 	1 per year	2 per year	3 per year	4 per year	≥ 6 per year
	Number of innovative programmes conducted in schools	1 per year	2 per year	3 per year	4 per year	≥ 5 per year
	9. ICT competency level of teachers	Very Low	Low	Average	High	Very High
	 Additional ICT competency level of teachers 	Very Low	Low	Average	High	Very High
	11. Number of ICT-related courses attended by teachers in the last 3 years	1	2	3	4	≥ 5

Smart Ranking School Indicators	Indicators	BASIC * (0 < x < 20%)	BASIC PLUS ★ ★ (20% ≤ x < 40%)	MEDIAN ★ ★ ★ (40% ≤ x < 60%)	ADVANCED * * * * (60% ≤ x < 80%	ADVANCED PLUS * * * * * (x ≥ 80%)
HUMAN CAPITAL (40%) - ICT competency of Administrators, Teachers,	Number of in-house ICT training courses conducted by teachers	1 per year	2 per year	3 per year	4 per year	5 per year
	 Frequency of dissemination of information regarding ICT by teachers 	once a year	twice a year	6 times a year	monthly	weekly
IT Coordinators	14. ICT competency level of IT Coordinator	Very Low	Low	Average	High	Very High
and Students	 Number of ICT-related courses attended by IT Coordinator in the last 3 years 	1	2	3	4	≥5
	16. Number of in-house ICT training courses conducted	1-2 per year	1-4 per year	5-6 per year	7-8 per year	≥ 9 per year
	 Frequency of dissemination of information regarding ICT by IT Coordinator 	once a year	twice a year	6 times a year	monthly	weekly
	18. ICT competency level of students	Very Low	Low	Average	High	Very High
	 Additional ICT competency level of students 	Very Low	Low	Average	High	Very High
	20. Number of sources Student refers to for ICT-related knowledge	1	2	3	4	5
APPLICATION	Must have modules for school management	3	4	5	6	> 6
(10%) – IT Coordinator	2. Must have application for the school	1	2	3	4	>4
for the schools	 Must have a system to manage learning content for teaching and learning 	1	- 1	.1	1	1
	Must have software for the development of teaching and learning materials	1	2	3	4	>4
	 Must have courseware/ICT-based learning material 	1 type	2 types	3 types	4 types	> 4 types

Smart Ranking School Indicators	Indicators	BASIC * (0 < x < 20%)	BASIC PLUS ★ ★ (20% ≤ x < 40%)	MEDIAN ★ ★ ★ (40% ≤ x < 60%)	ADVANCED ★★★★ (60% ≤ x < 80%	ADVANCED PLUS
APPLICATION (10%) - IT Coordinator for the schools	Must have a website for the school Must have an email application for the school	One website Email application	One website and updated Email application	One website, updated with one of the following criteria: • maintained • interactive • downloadable materials Email application	One website, updated with two of the following criteria: • maintained • interactive • downloadable materials Email application and directory for the school	One website, updated with all of the following criteria: • maintained • interactive • downloadable materials Email application, directory and email groups for the school
INFRASTRUCTURE (10%)	Number of functioning computers in the school	5-10	11-15	16-20	21-30	≥31
- Administrators	2. Computer: Pupil ratio	1:>12	1: 10-12	1: 6-9	1: 3-5	1: 2
and IT Coordinators	3. Computer/Notebook: Teacher Ratio	1: >8	1: 6-8	1: 4-6	1: >2-4	1≤2
	4. LCD Projector: Class Ratio	1:>20	1: 16-20	1: 11-15	1: 5-10	≤ S
	5. Accessible computer locations	1	2	3	4	5
	Percentage of Computers not working more than 24 hours	≥ 50%	30% - < 50%	20% - < 30%	10% - < 20%	< 10%
	7. Local Area Network connectivity	≤2	3-4	5-6	>6	≥7 & wireless
	8. Standard maximum downtime	>7 times/week	5-6 times/week	3-4 times/week	1-2 times/week	0 time/rarely
	9. Internet accessibility	1 location	2 locations	3 locations	4 locations	≥5 locations
	10. Maintenance activity	Once a month	Once every 3 weeks	Once every 2 weeks	Once a week	Daily

SSQS Star Ratings

ADVANCED PLUS (5*)

Highest approval ranking; Smart Schools with advanced conditions for most indicators

ADVANCED (4*)

Smart Schools with good or advanced conditions for most indicators

MEDIAN (3*)

Smart Schools with fair or average conditions of all indicators

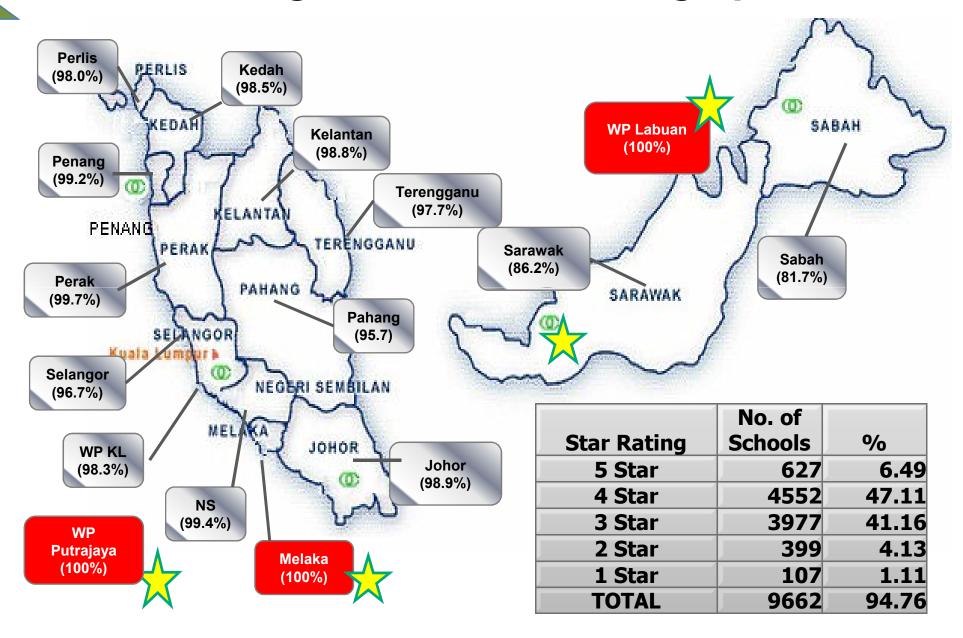
BASIC PLUS (2*)

Schools with below average conditions for all indicators

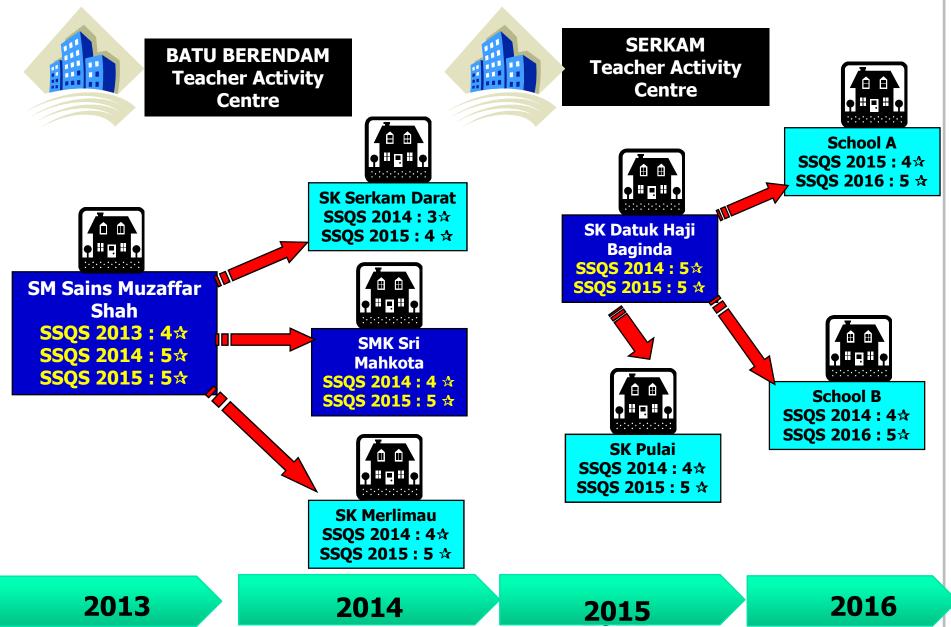
BASIC (1*)

Schools with merely basic conditions across all indicators

Findings for Star Awarding System



Strategy For Sustainability



Way Forward



Upgrading of infrastructure such as the broadband and hardware

Instilling the ownership of the Smart School initiatives among stakeholders

Changing the mindset of teachers and stakeholders

Alignment of objectives at all levels required, within the Ministry and between Ministries/agencies



Thank You Email: soon@oum.edu.my