

Enhancing Self-Directed and Collaborative Learning through the Use of 1-to-1 Computing

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ELIS

The banner at the bottom of the slide features a blue-tinted city skyline of Singapore, including the Esplanade - Theatres on the Bay and the Marina Bay Sands. In the foreground, there is a network diagram with white nodes and connecting lines. The ELIS logo, consisting of the letters 'ELIS' in white on a red circular background, is positioned in the bottom left corner of the banner.

OVERVIEW

- **Demands of the 21st CC learner**
- **21st CC skills targeted in using 1:1 Computing**
- **SAMR Model**
- **Tools used in lessons**



TOPIC OF DISCUSSION

Are our teaching methods and strategies on par with the changing demands of the 21st Century learner?



DEMANDS OF A 21ST CENTURY LEARNER

- Independent (Self-directed learners)
- Information at their finger tips
- Tech-savvy
- Visual learners
- Shorter attention span
- More interactive content



WHAT DOES IT MEAN FOR TEACHERS?

- **Facilitate** self-management and scaffolding for students' learning
- **Creating** conducive environment for students
- **Creating** opportunities through multiple platforms for students to develop necessary skills



S.A.M.R MODEL

Developed by Dr. Ruben Puentedura



An Icon of Excellence and Pride of the Community

TOOLS EXPLORED

- iBook
- Pages
- iTunesU Course
- Keynote
- iMovie



iTUNES U COURSE

- Filled with countless learning resources
- Platform for educators to:
 - > Deliver material(s)
 - > Create assignment(s)
 - > Submission of assignment(s)



PAGES

- Substitution tool for note-taking
- Modified Journal with tasks

iMOVIE

- End product / assessment that was previously inconceivable with paper and pen





Direct substitution, no functional change

Uploading chapters of textbook onto iTunes U Course.



Direct substitution, functional improvement

Adding videos / links relevant to the chapters into iTunes U Course.



Significant task re-design

Using Pages as a form of production booklet, adding photos and videos as part of the reflection process.



Creation of new tasks, previously inconceivable

iMovie trailer as a term project.



iBOOKS

- **Flipped Classroom (Self-Directed Learning)**

