Laureates‘ Seminar of
UNESCO King Hamad Bin Isa Al-Khalifa
Prize for the Use of ICTs in Education
13 January 2016, UNESCO HQ, Paris
In Singapore, we have:

- 365 public schools
- ~480,000 students
- ~33,000 teachers
The Education Service’s Mission is to mould the future of the nation.

MOE’s vision:
“Thinking Schools, Learning Nation”
The Ministry Of Education, Singapore:

- **formulates and implements** education policies; and
- **oversees** the 365 Government and Government-aided primary schools, secondary schools, junior colleges, and a centralised institute.
ETD’s Vision:
Harnessing ICT, Transforming Learners
OSP@SG is a digital library containing Java, JavaScript and Tracker resources.

- The open source codes are freely shared online to support the teaching and learning of Physics.
- Website: [http://iwant2study.org/ospsg/](http://iwant2study.org/ospsg/)
Development of OSP@SG

OSP@SG:

- Started in 2012
- Involvement:
  - 1 ETD specialist
  - 12 schools
  - ~100 teachers
  - ~9800 students
  - Open Source Physics Community
Students’ proposed ideas can be modelled for comparison with the real life data.
Mathematical Modelling

- Simulated data
- Student’s proposed model
Key Feature: Source codes can be edited directly

Resources can be customised to suit the needs of the curriculum.
Key Feature: Resources are translatable

Example: Translation to French (By Google)

There is potential for the resources to be translated to many other languages.
Key Feature: Resources are exportable

E.g. Resources can be embedded within interactive textbooks (iBook and Google Book).

Interactive chapter-textbooks on Gravity and Simple Harmonic Motion are currently being tested in 4 schools.
The OSP@SG project is accessible, adaptable & affordable.

‘[OSP@SG] provides education stakeholders with opportunities to improve the quality of, and expand access to, textbooks and other forms of learning content, to catalyse the innovative use of content, and to foster knowledge creation.’
(Qingdao Declaration, 2015)
Thank You

Twitter: @lookang
Email: Lawrence Wee@moe.gov.sg