

# *Co-developing an Innovative Education Blueprint*



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Executive Director  
Hong Kong Education City



# Background of Hong Kong Education System

## K-12

15 years free education (kindergarten to K12)  
About 1,000 Primary and Secondary schools

## Education Budget

~ 90 billion or 18% of government budget, more than health, housing and infrastructure

## Internet City

Ranked 1st in mobile network coverage and 2nd in International Internet bandwidth  
*(source: World Economic Forum's Global Information Technology Report 2015)*

## School WiFi

ALL schools ALL classrooms with WiFi

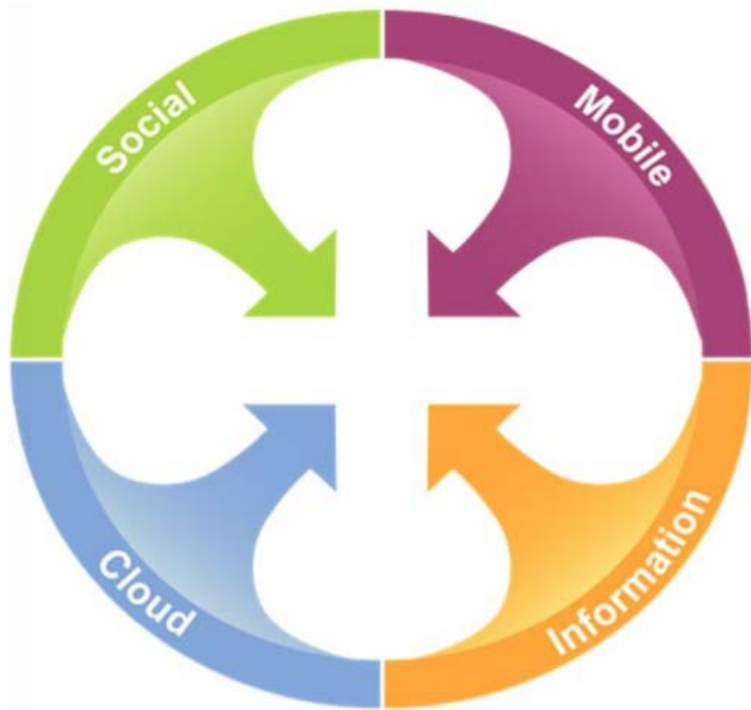
## International Culture

Bilingual, multi-culture

## PISA

Top 5 in Problem Solving, Mathematics and Digital Reading in PISA 2012

## Getting to the Internet of Everything: The Nexus of Forces



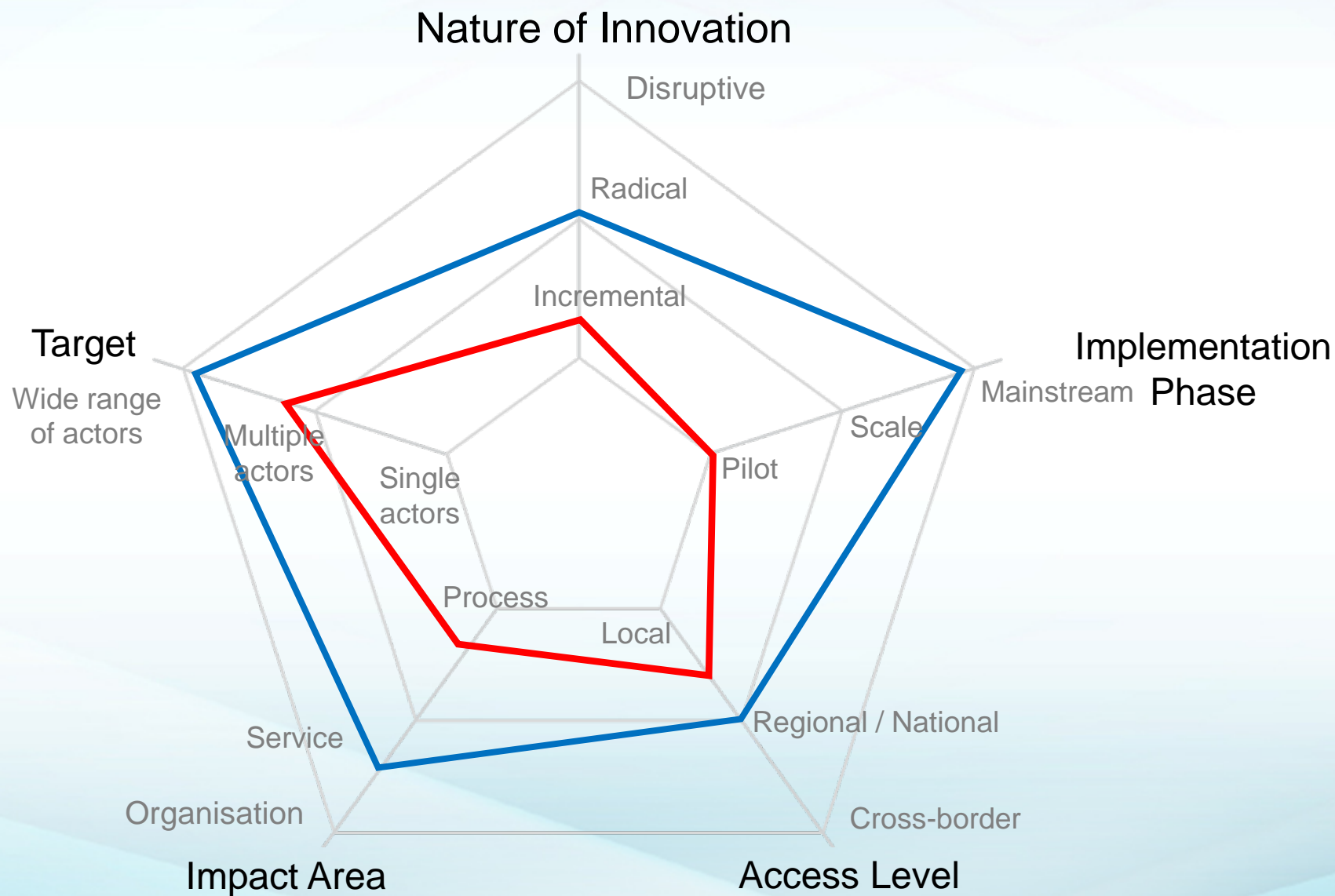
New Business Model after  
convergence of :

- Social media
- Mobility
- Cloud
- Big Data

*(Sounds familiar with FAAG?)*

Source :Gartner Research

# Innovation vs. Mainstream



# *Education Ecosystem*

# FinTech Ecosystem



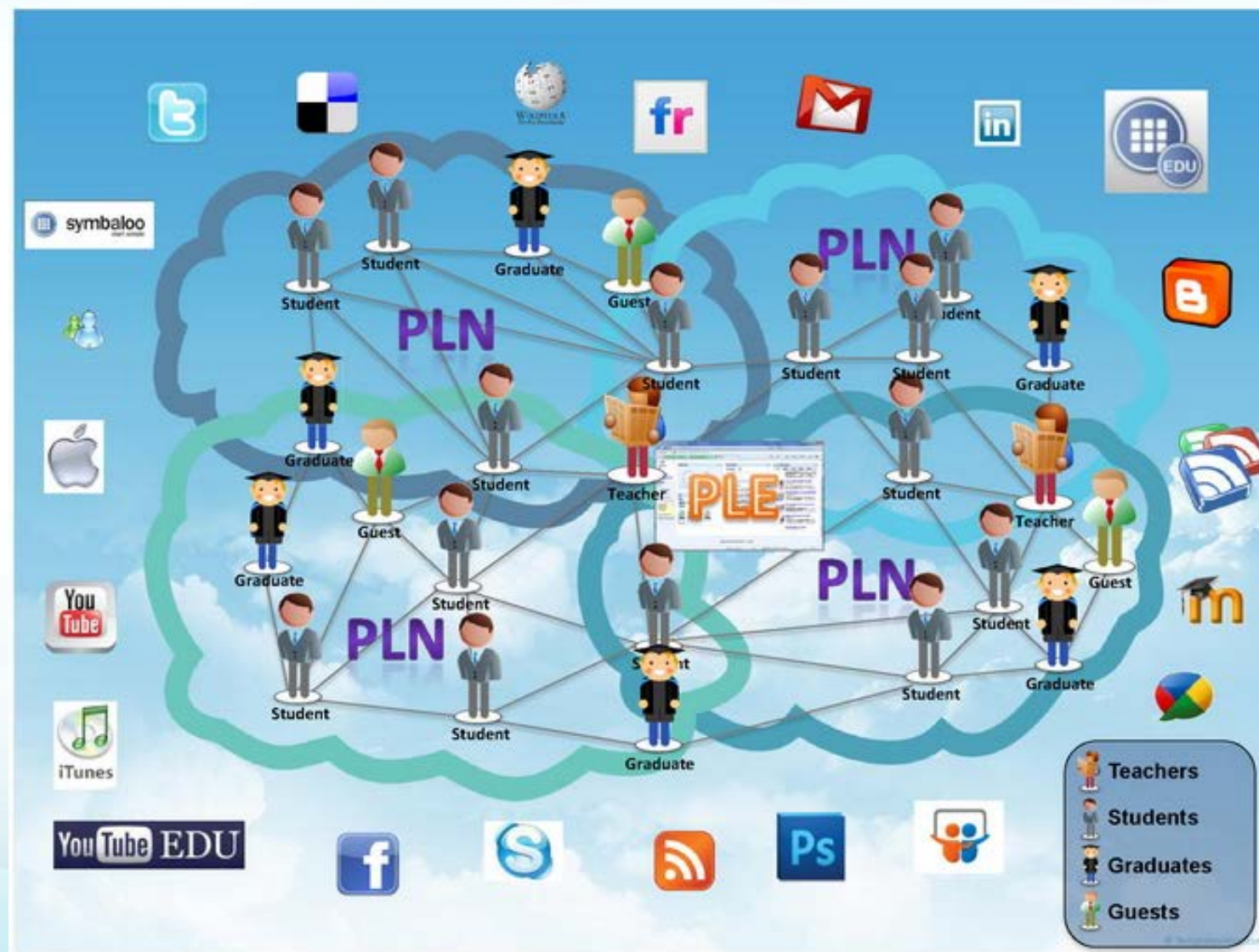
# *Education Ecosystem*

- Multiple players within the ecosystem.
- Objects have to interact and connect with one another.
- Educational resources need to seamlessly work together.

## *Conditions for Education Ecosystem*

- Data Standard
- Interface Standard
- Integrate to facilitate new pedagogy
- Allow for multilateral expansion

# Personal Learning Environment

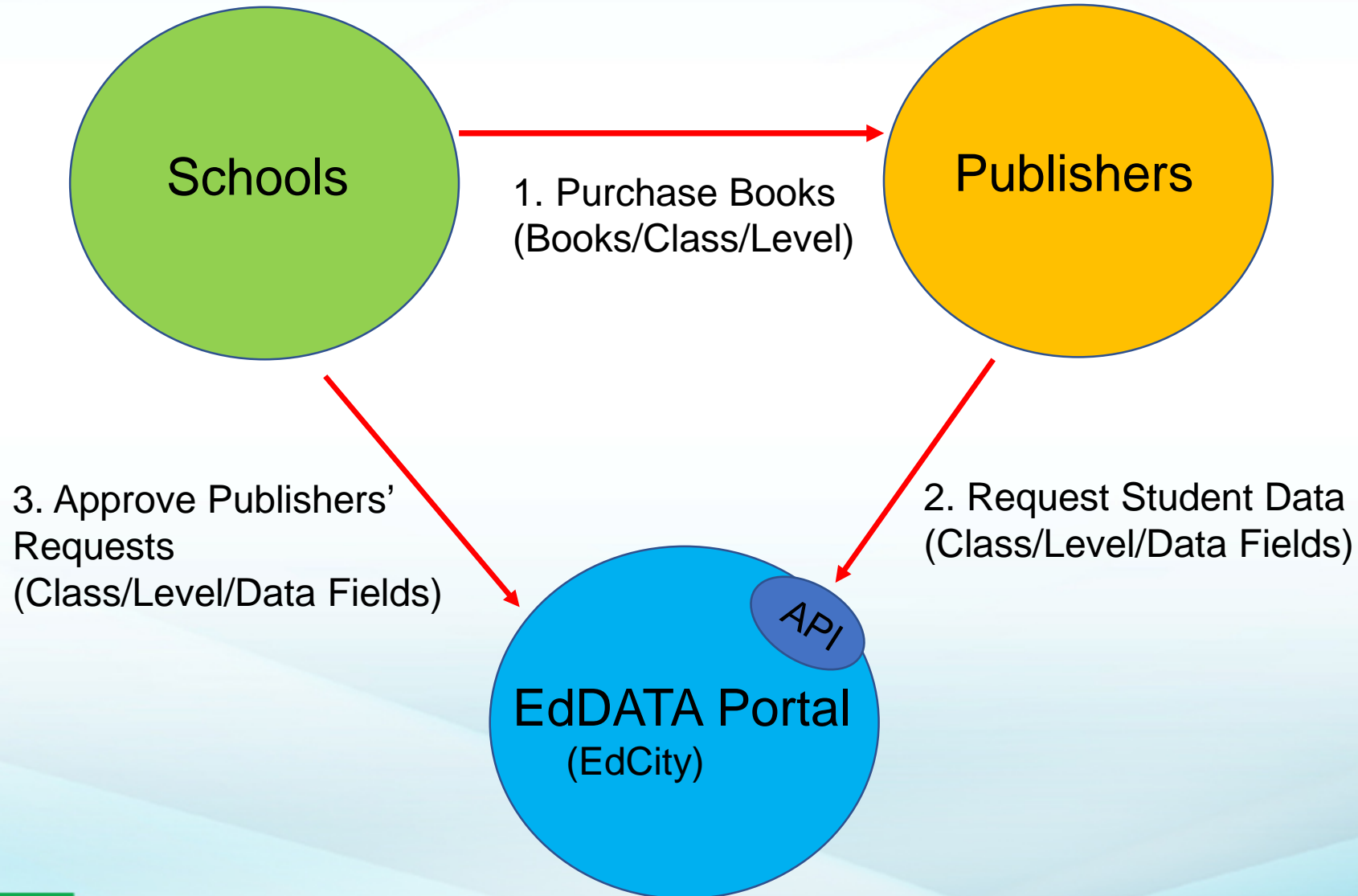


# *Standard Student Data (EdDATA)*

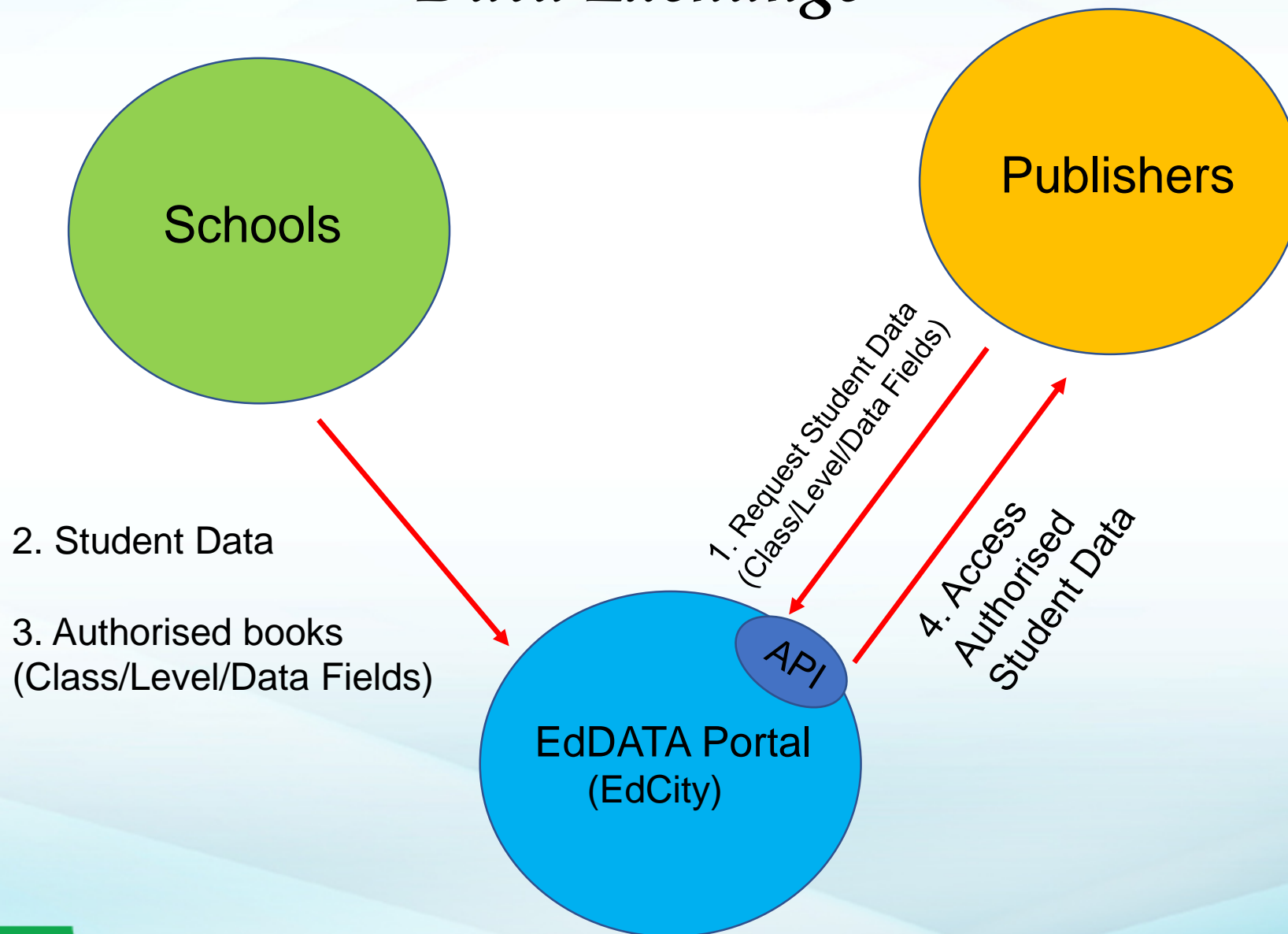
# *EdDATA Development*

- Single sign-on
- Publishers - use standard student data to serve all schools
- Schools - prepare one set of data for all publishers
- Consultation of Student Data Standard on 24 Aug 2018
- Proof of Concept and Tryout starting Jan 2019

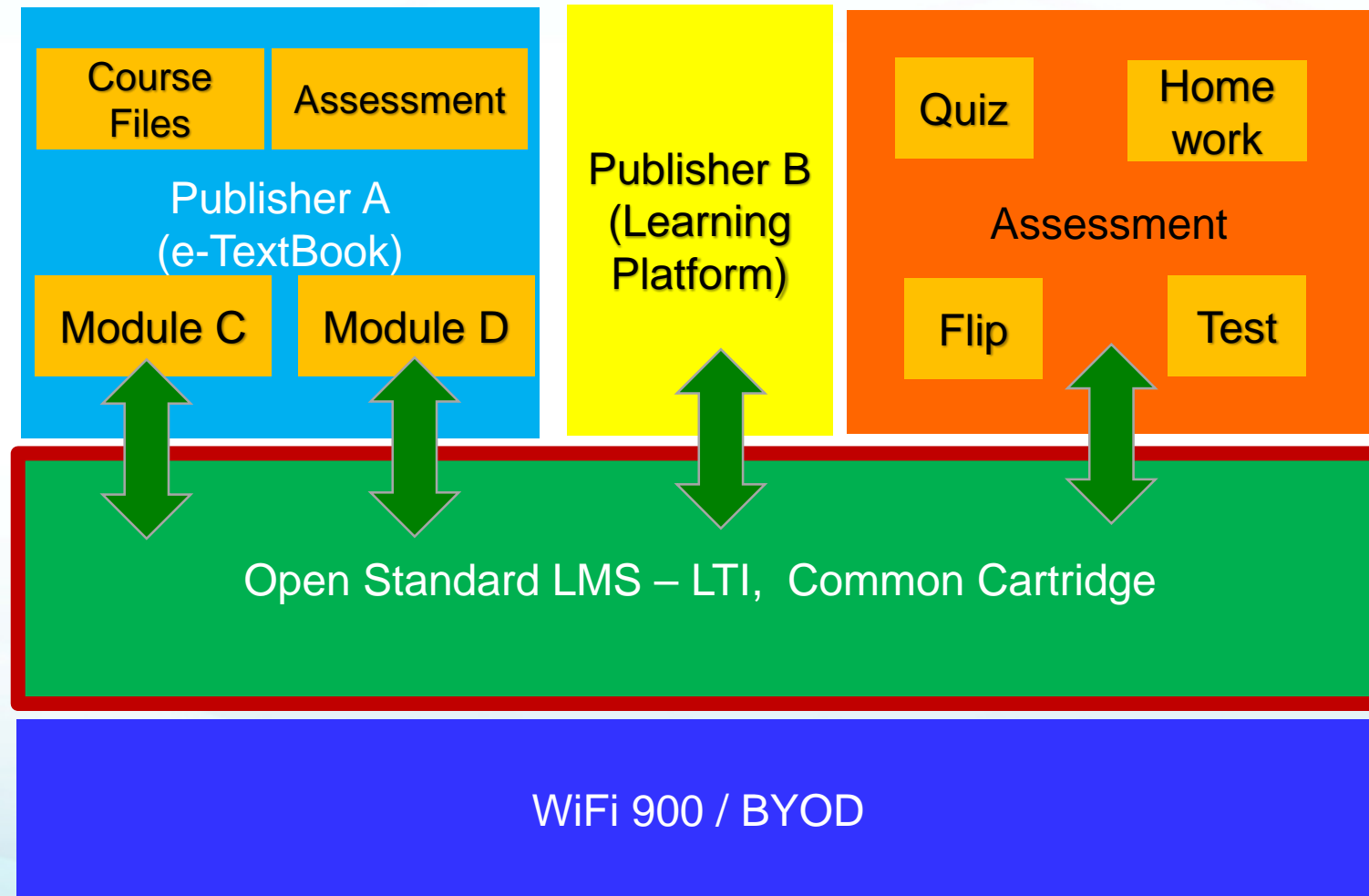
# Data Access Authorisation



# Data Exchange






# *eLearning Open Standards*







## Classroom App




Student Response System:

-  Nearpod
-  Edmodo
-  Kahoot!

## Learning Platforms

-  LMS / VLE
-  Assignment
-  eAssessment
-  Flipped classroom

## Internet Resources

-  HKEdCity Resources
-  Education Ministry
-  Khan Academy

## eBook (Contents)

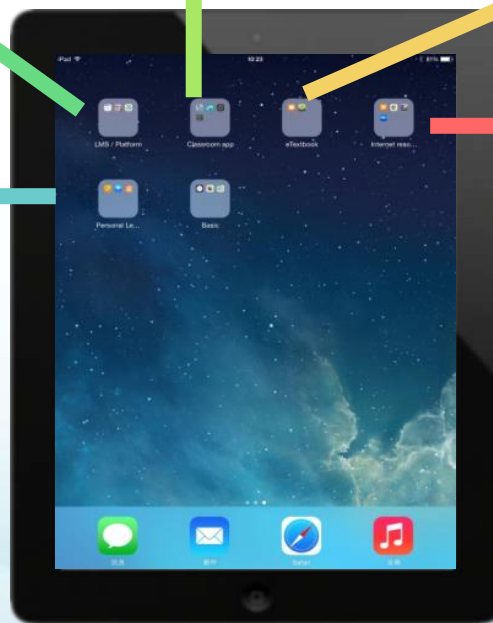
Contents

Multimedia



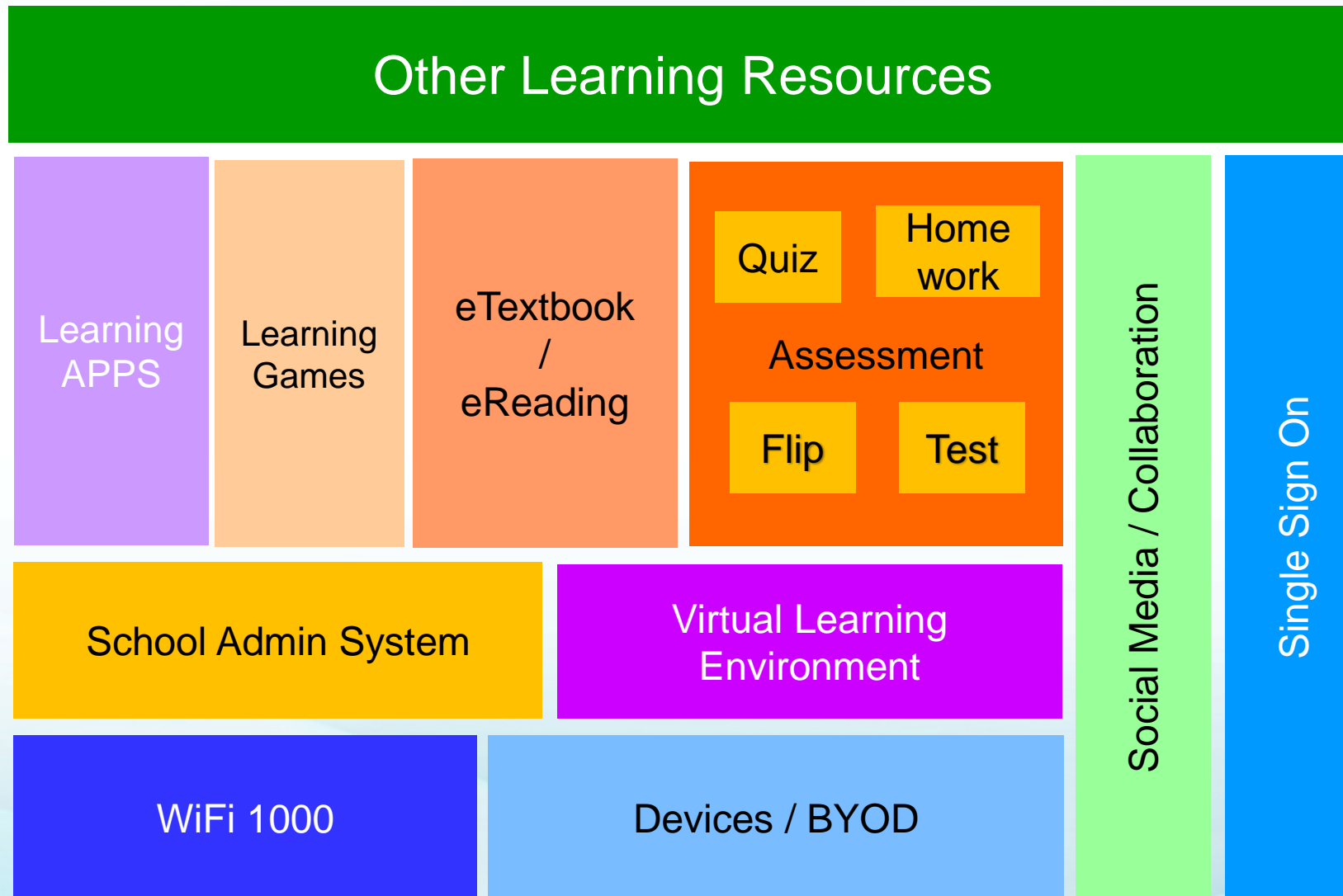
## Personal Learning Tools

-  Dictionary
-  Camera
-  Explain Everything
-  PowerPoint



*Student's View of eLearning Ecosystem*

# Holistic eLearning with BYOD (“Systemness”)



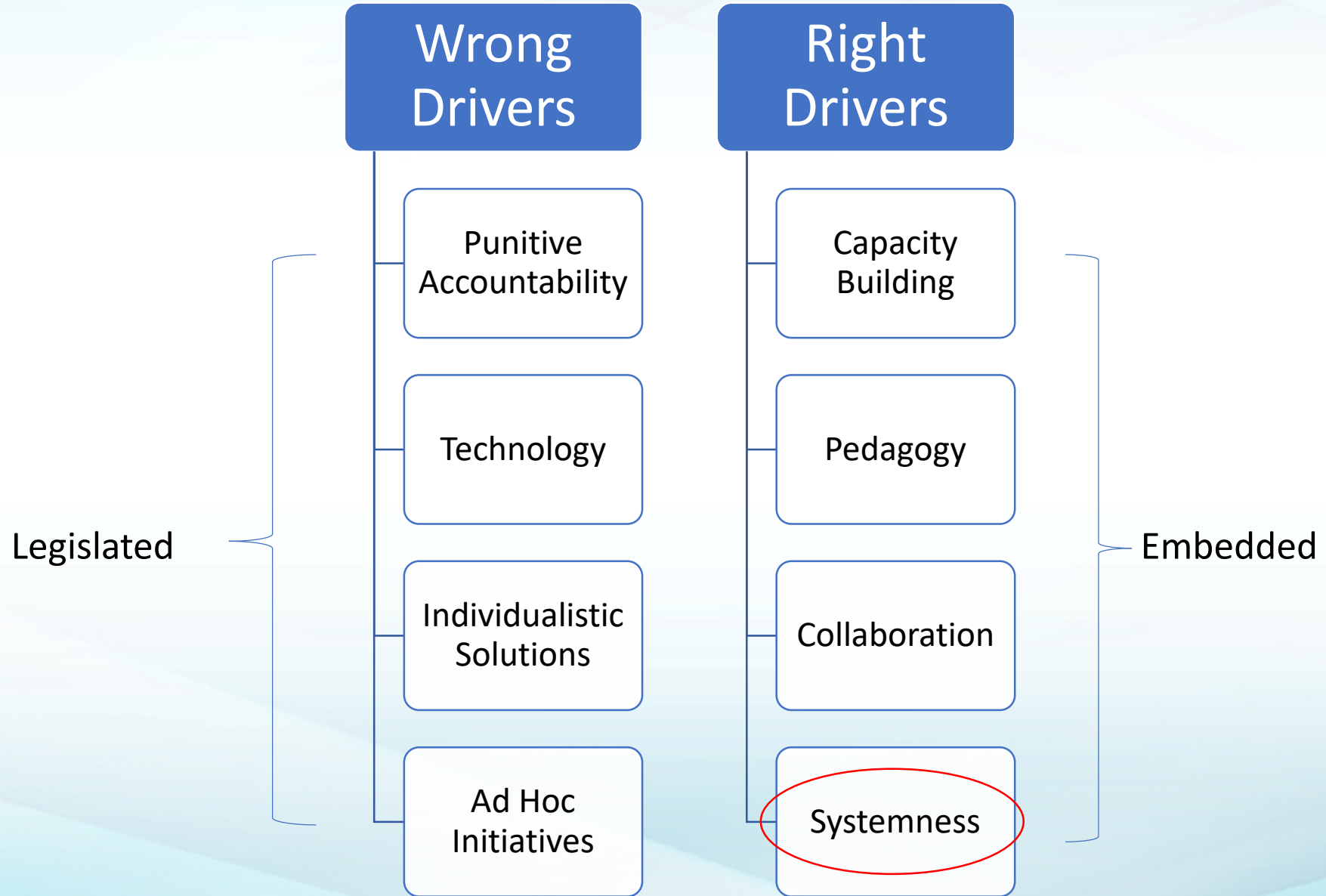
# *Education System Change*

# System Change

- Community of Practice
- Systematic Evaluation
- Leadership Involvement



*Wrong and Right Divers of Education Reform  
- California Experience*

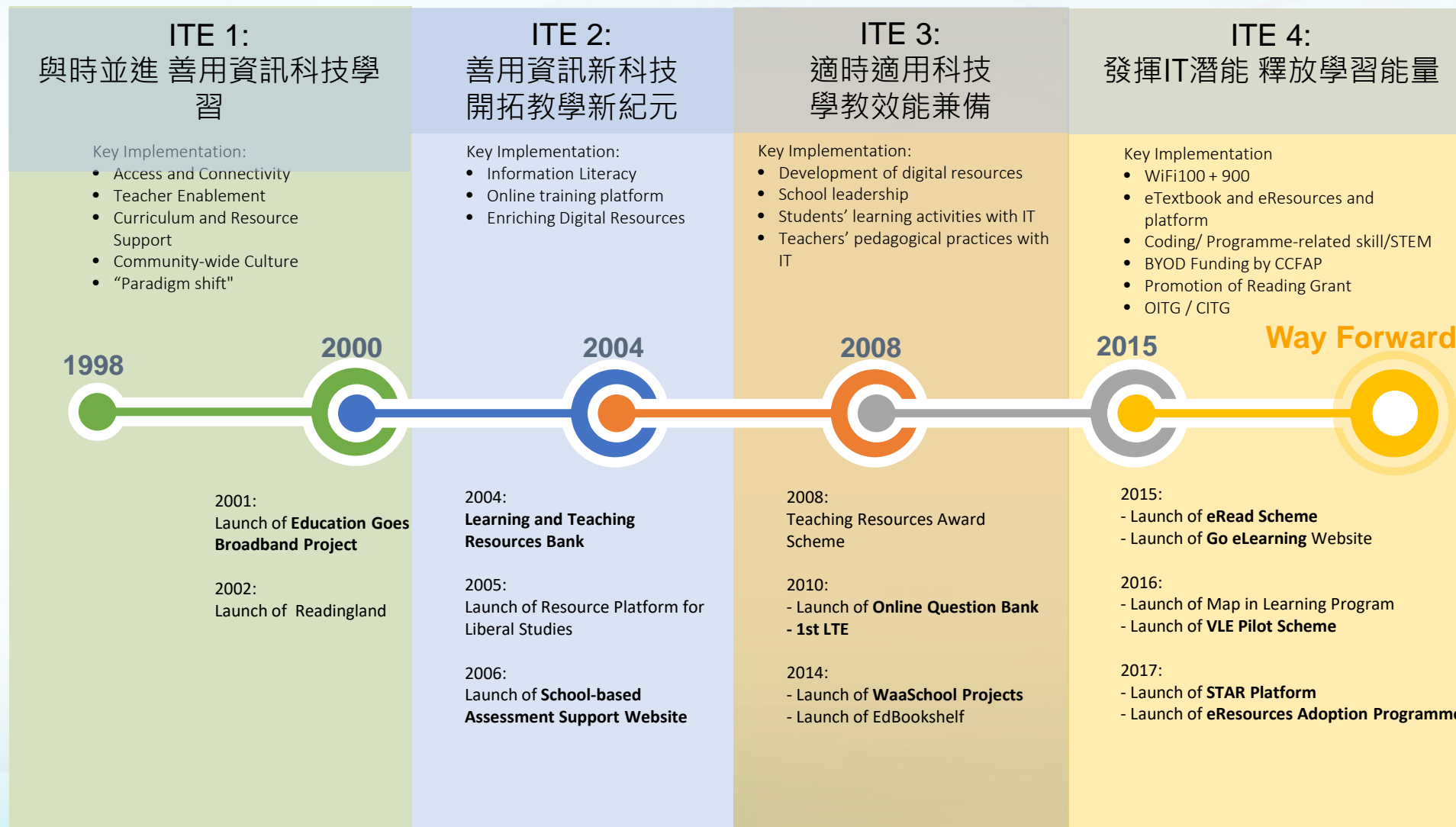


Source :*Michaelfullan.ca*

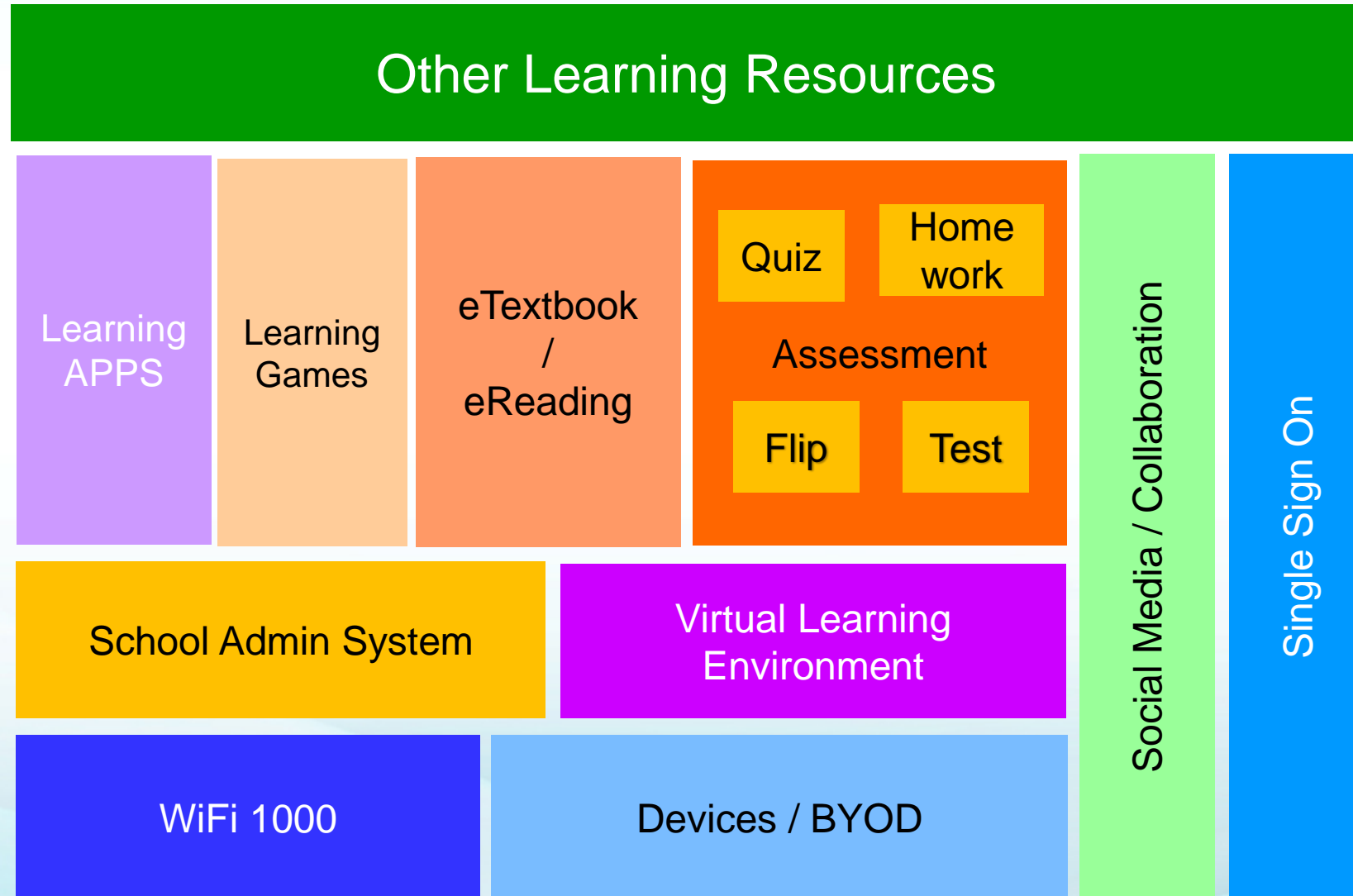
# Conditions for Sustainable Change



*Education System Change -  
Hong Kong ICT in Education Strategy 2015*



# Holistic eLearning with BYOD (“Systemness”)



# HKEdCity Services for Students

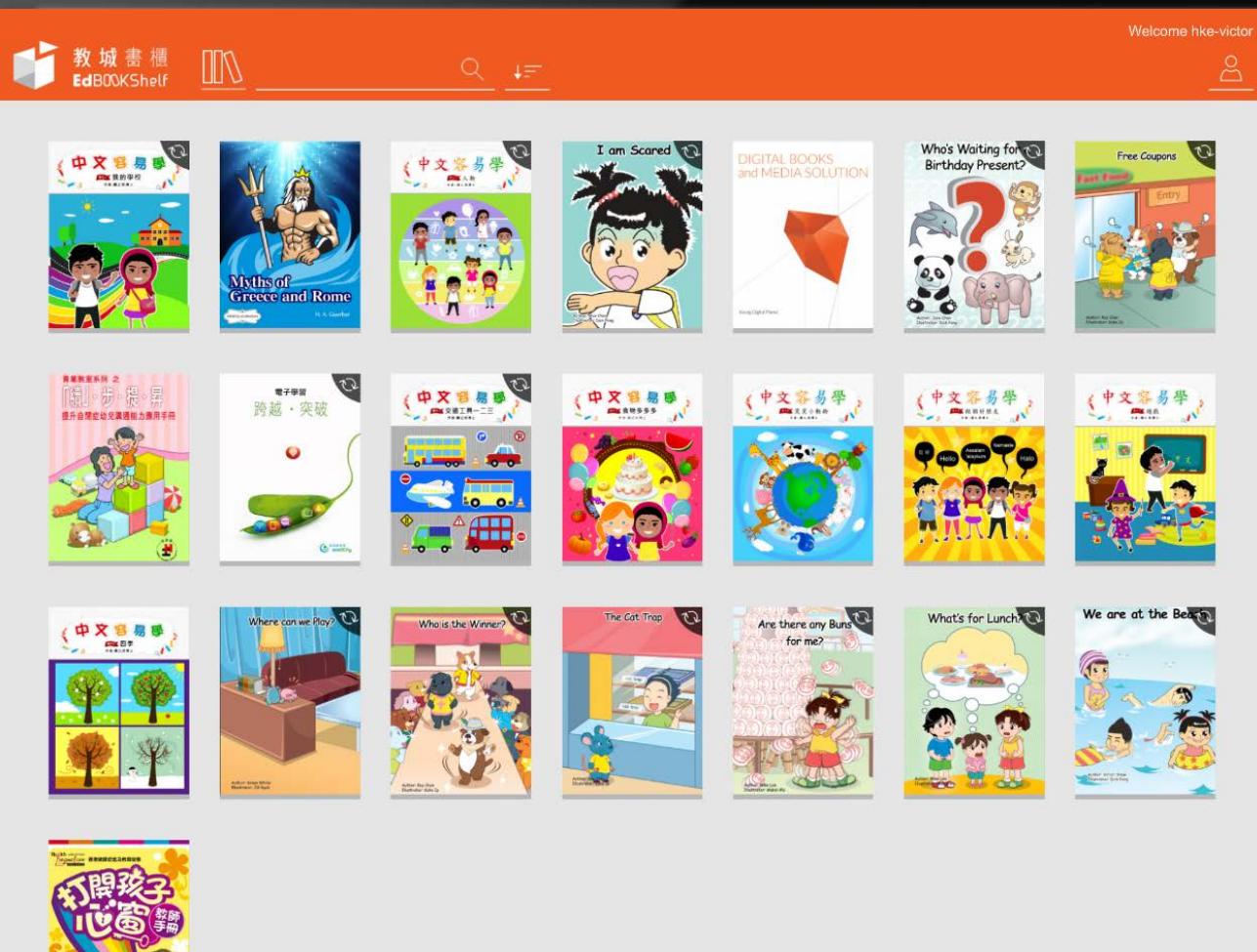


School-based



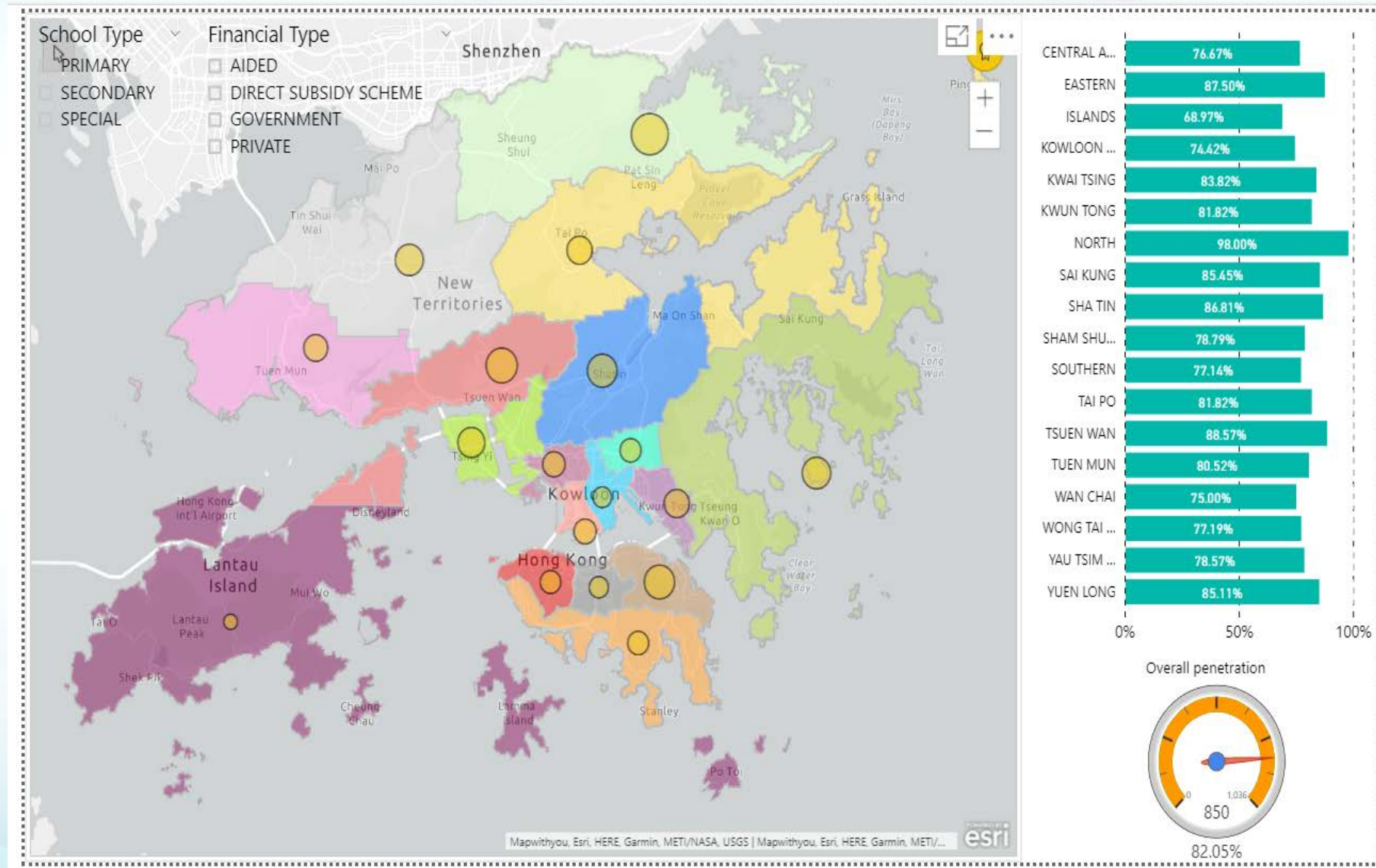
Student-based





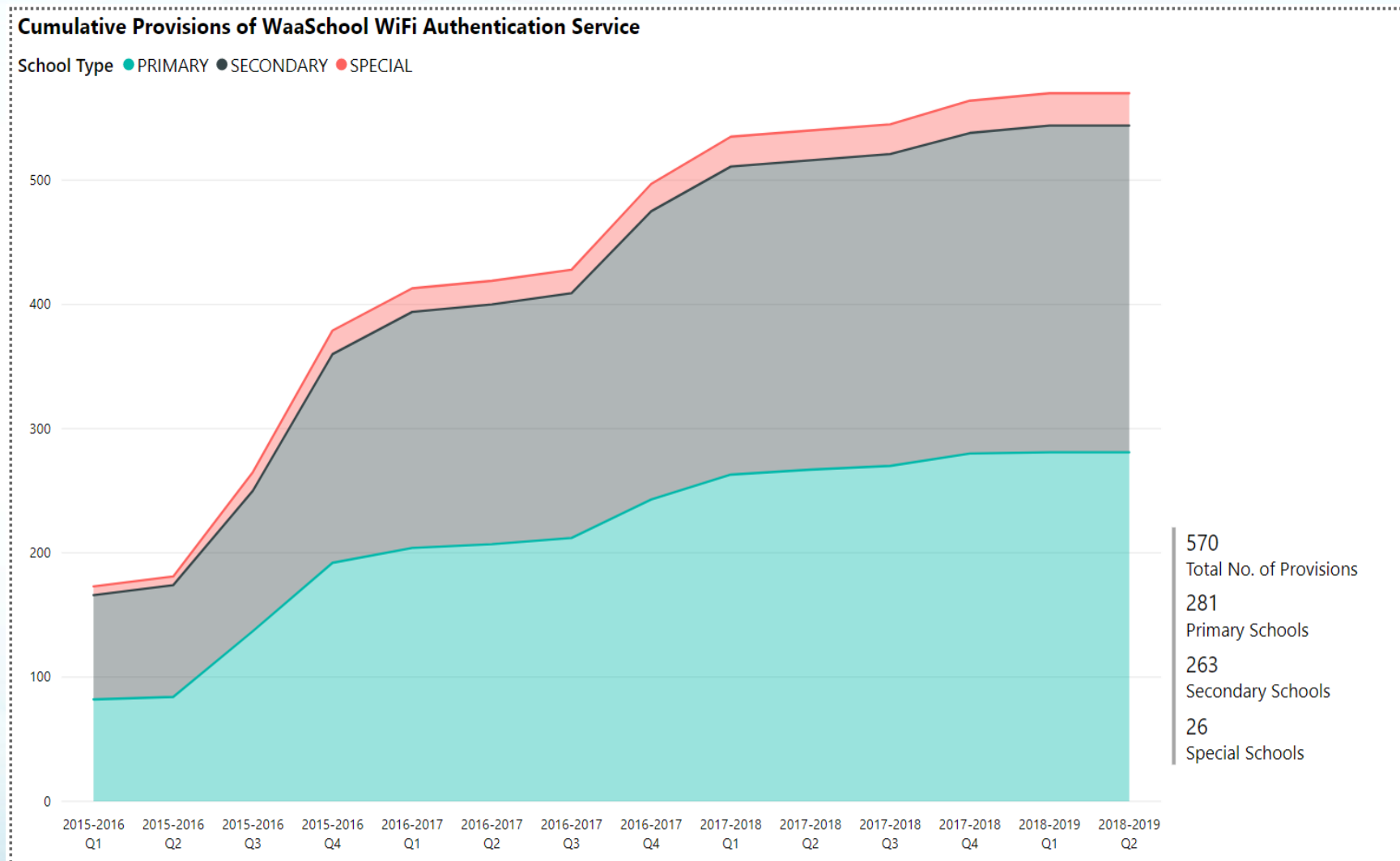
# HKEdCity Member Schools

82.05%



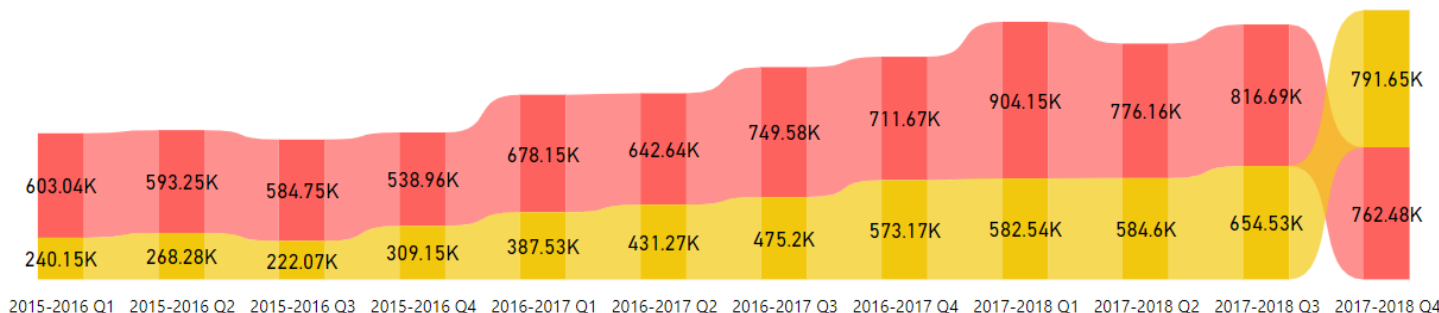
# WiFi as a Service (WaaSchool)

99% schools with WiFi  
57% standardized model



Pageview by Mobile and Tablet on Quarters of Year (2015-2018)

Device ● Mobile ● Tablet



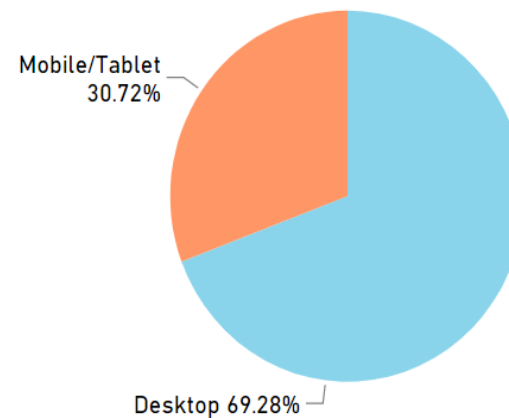
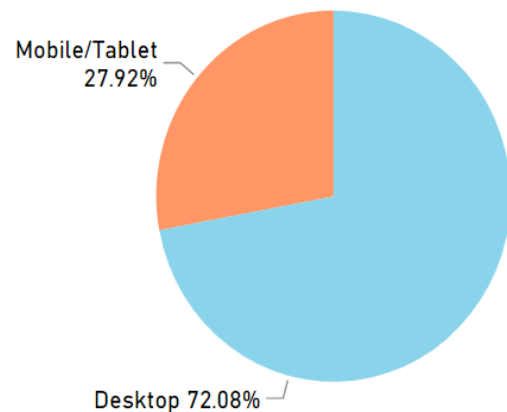
**74.80%**  
Increase in Mobile Usage

Mobile device usage

↑ 74.8%

2015-2016 Pageview

2017-2018 Pageview

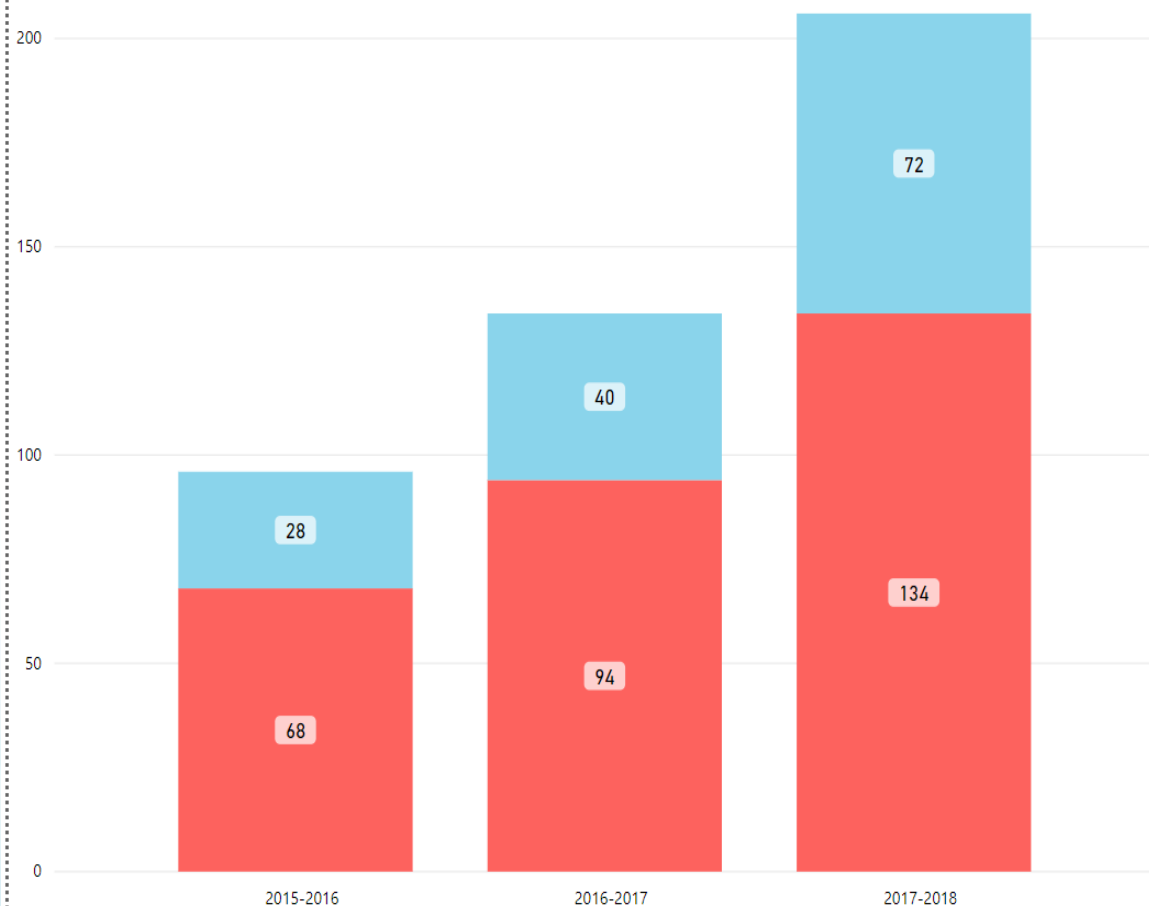


# Multiple Actors Teachers Sharing

Technical  
subjects vs  
non-technical  
subjects

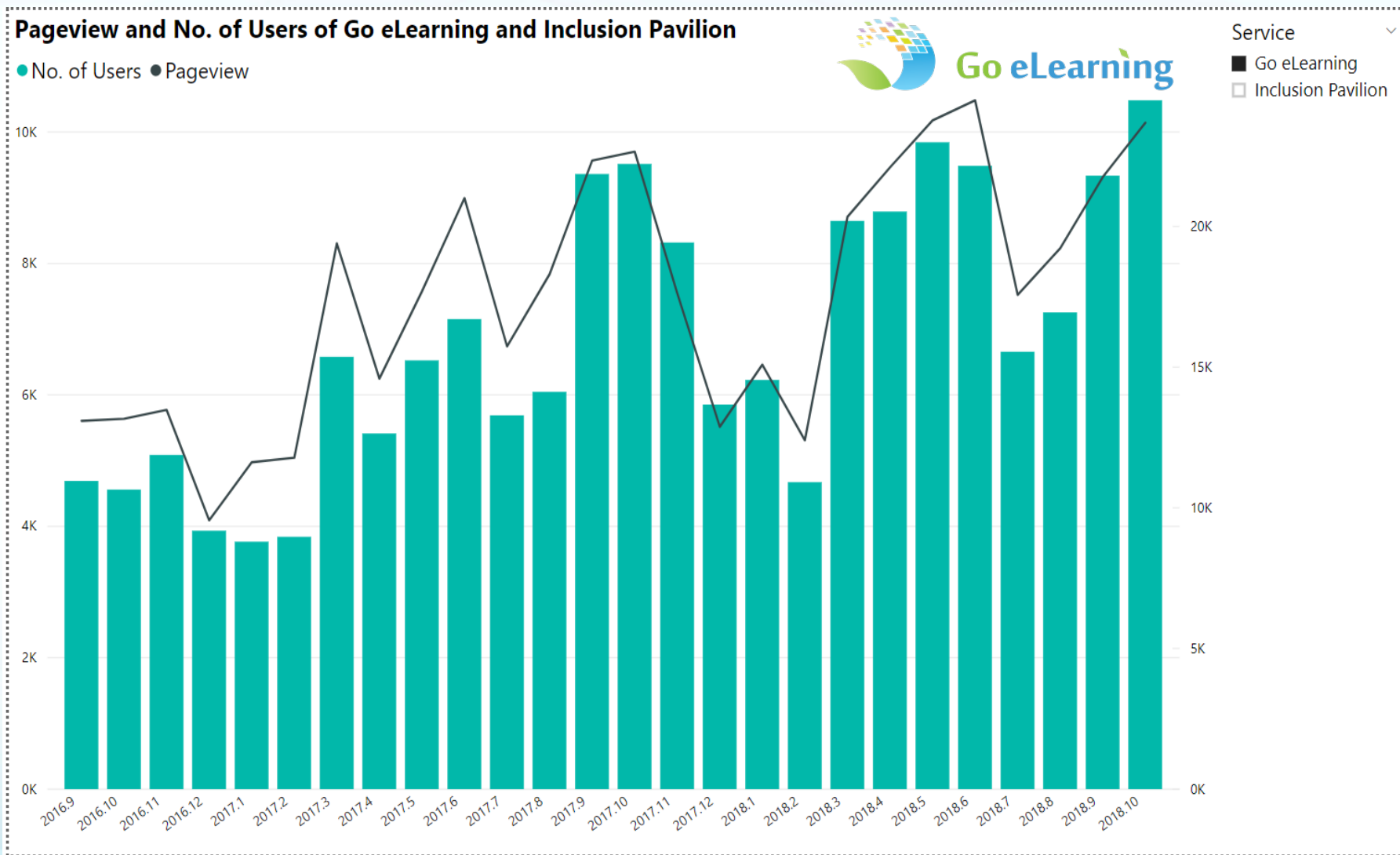
No. of Teacher Sharing by School Year (2015-2018)

● Non-tech Subject ● Tech Subject

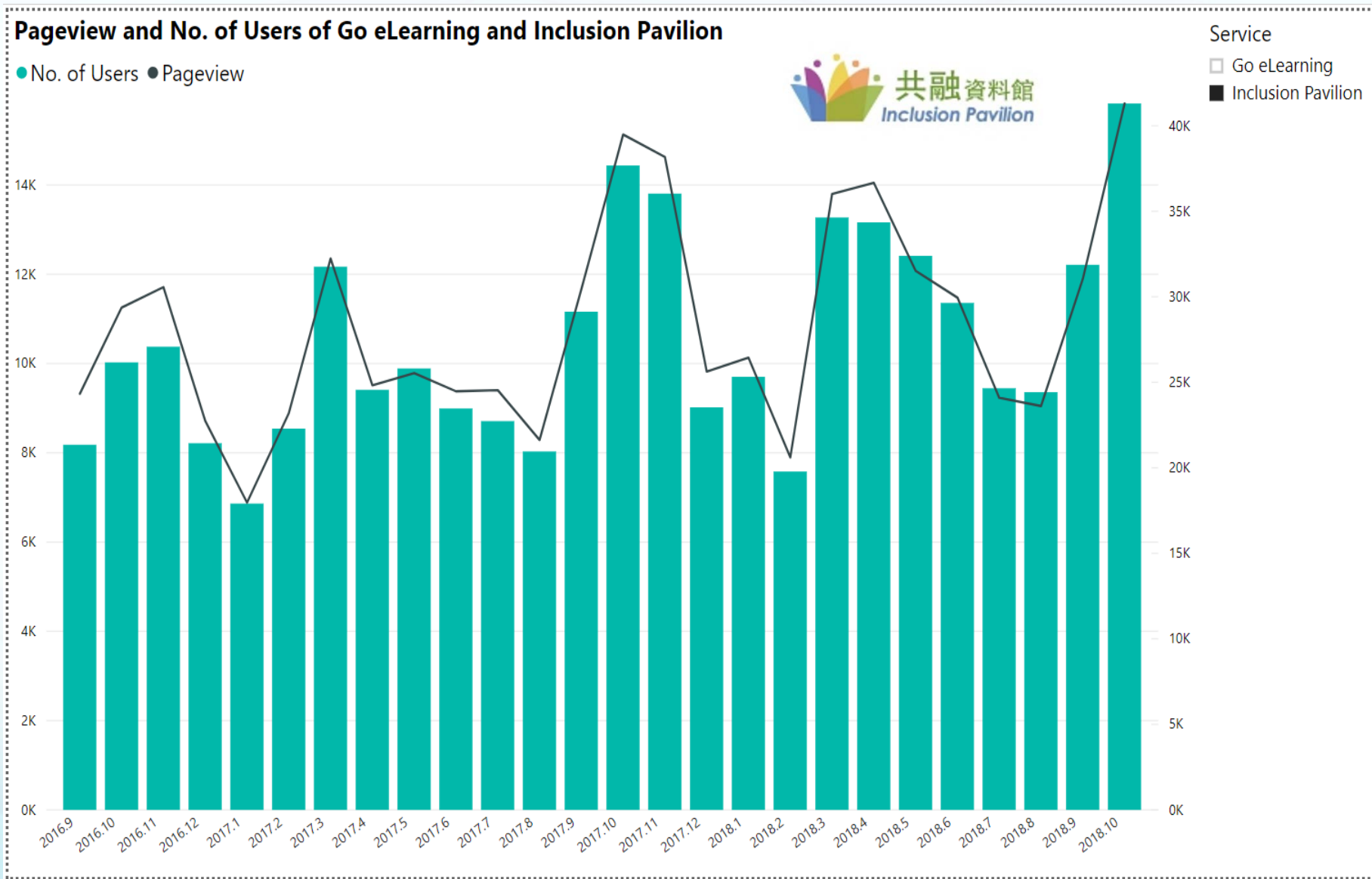


**97.06%**  
Increase of Non-tech Sharing

# Teacher Community



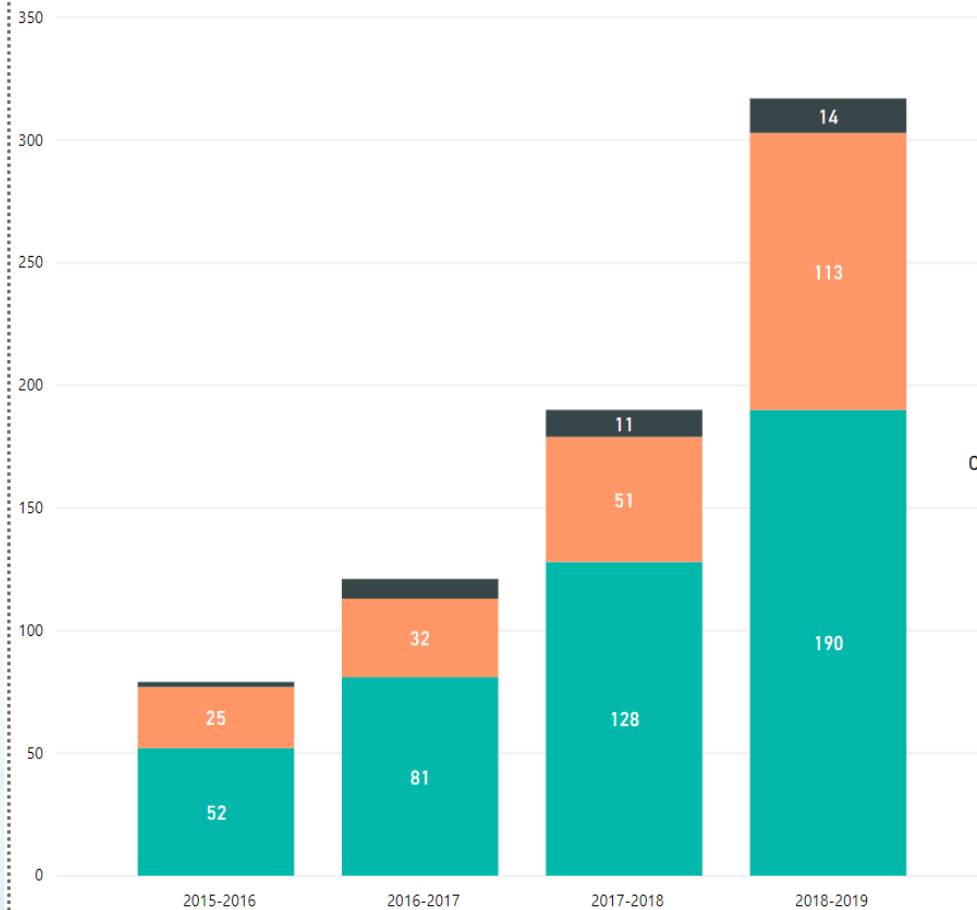
# PD – Special Education Needs



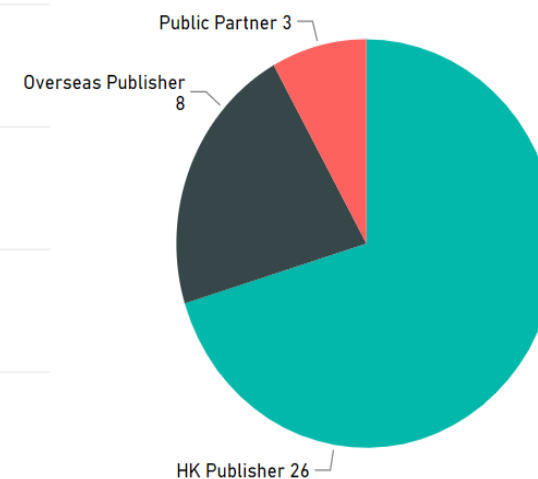
# Digital Reading Transformation

Subscription of eRead Scheme by School Year (2015-2018)

School Type ● PRIMARY ● SECONDARY ● SPEICAL

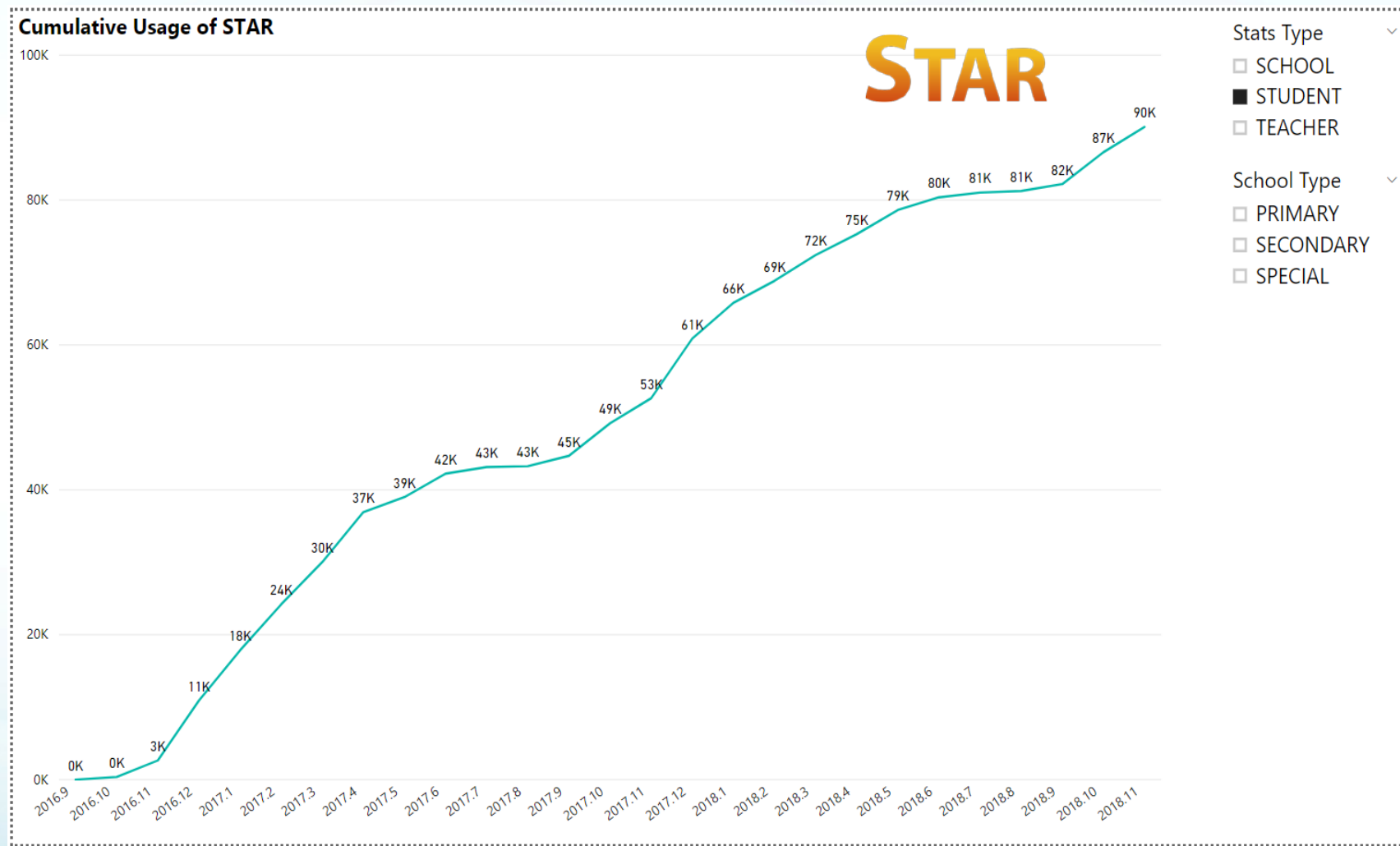


Partners of eRead Scheme



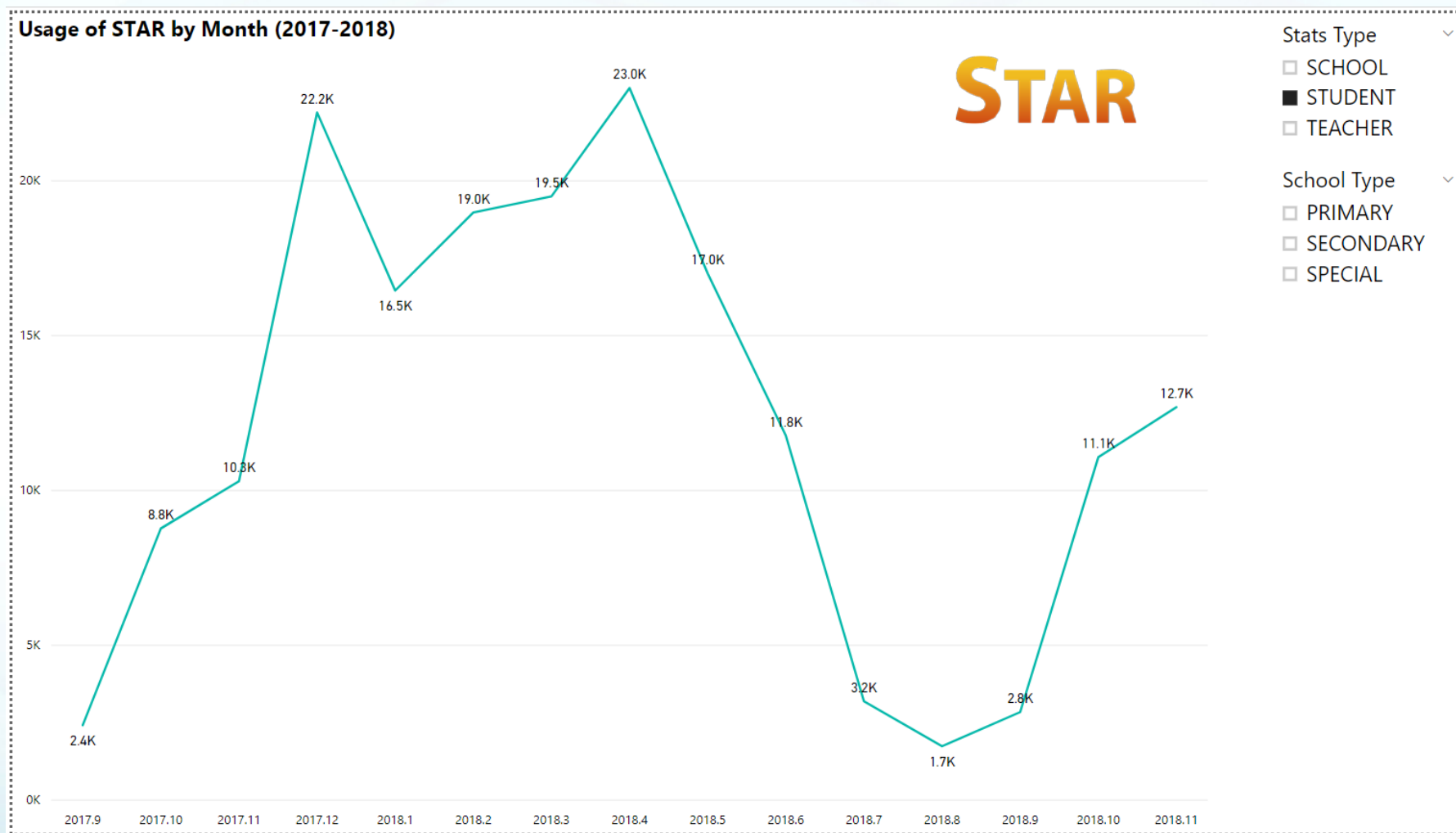
# Digital Assessment Transformation

90,000 students in 1.5 year



# Digital Assessment

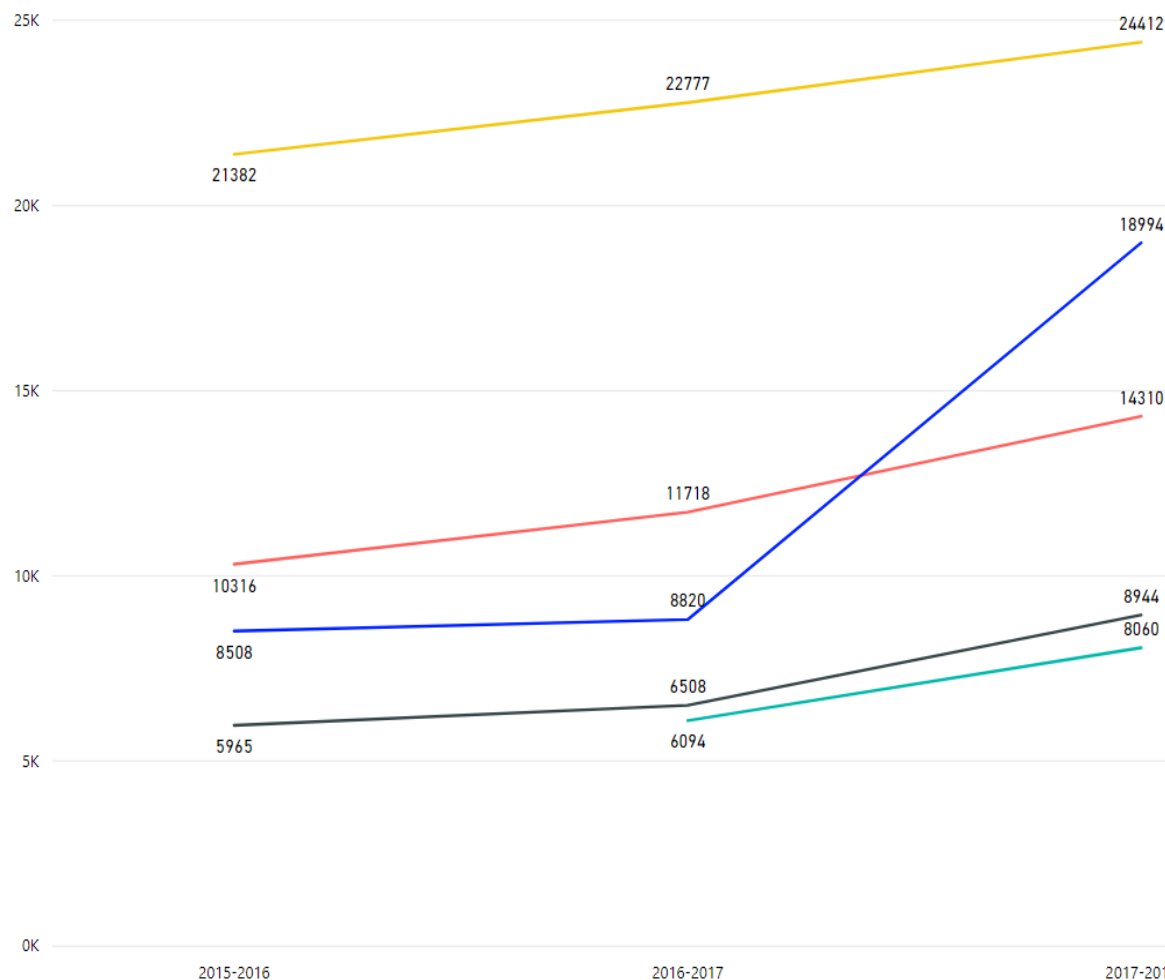
Assessment  
“of,” “as”, “for”  
learning?



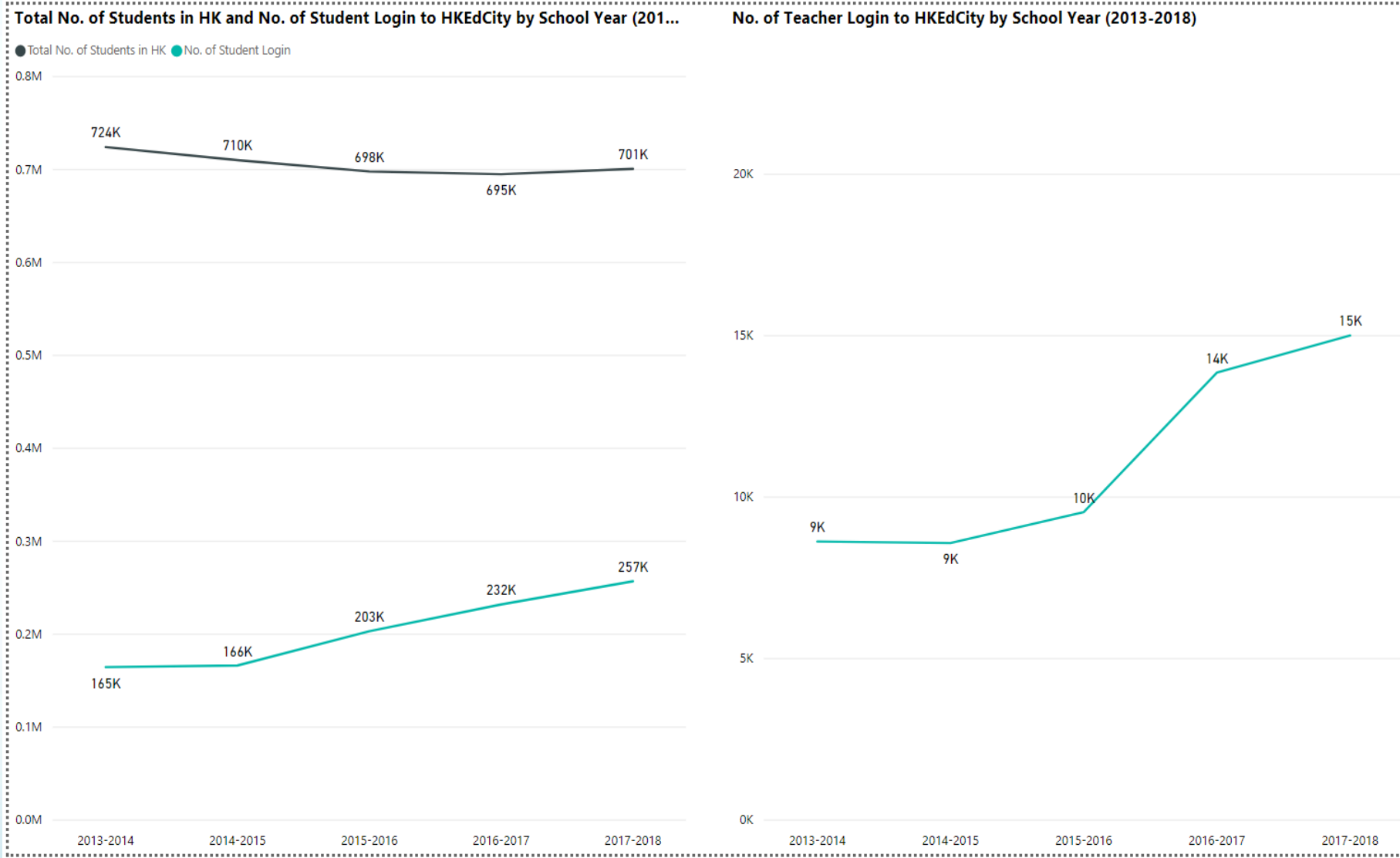
# Student Schemes

No. of Students Participated in Student Schemes by School Year (2015-2018)

Service ● Chinese Master ● Summer English ● 10-Minute Science ● Summer Science ● EdbookShelf

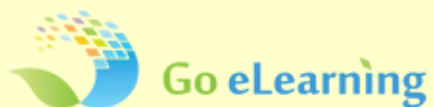


# Active Students & Teachers



# STAR

STAR  
[star.hkedcity.net](http://star.hkedcity.net)



**Go eLearning**  
[www.hkedcity.net/goelearning](http://www.hkedcity.net/goelearning)

Strategic  
Services for  
Innovative Learning



**eRead Scheme**  
[www.hkedcity.net/ereadscheme/](http://www.hkedcity.net/ereadscheme/)

# VLE

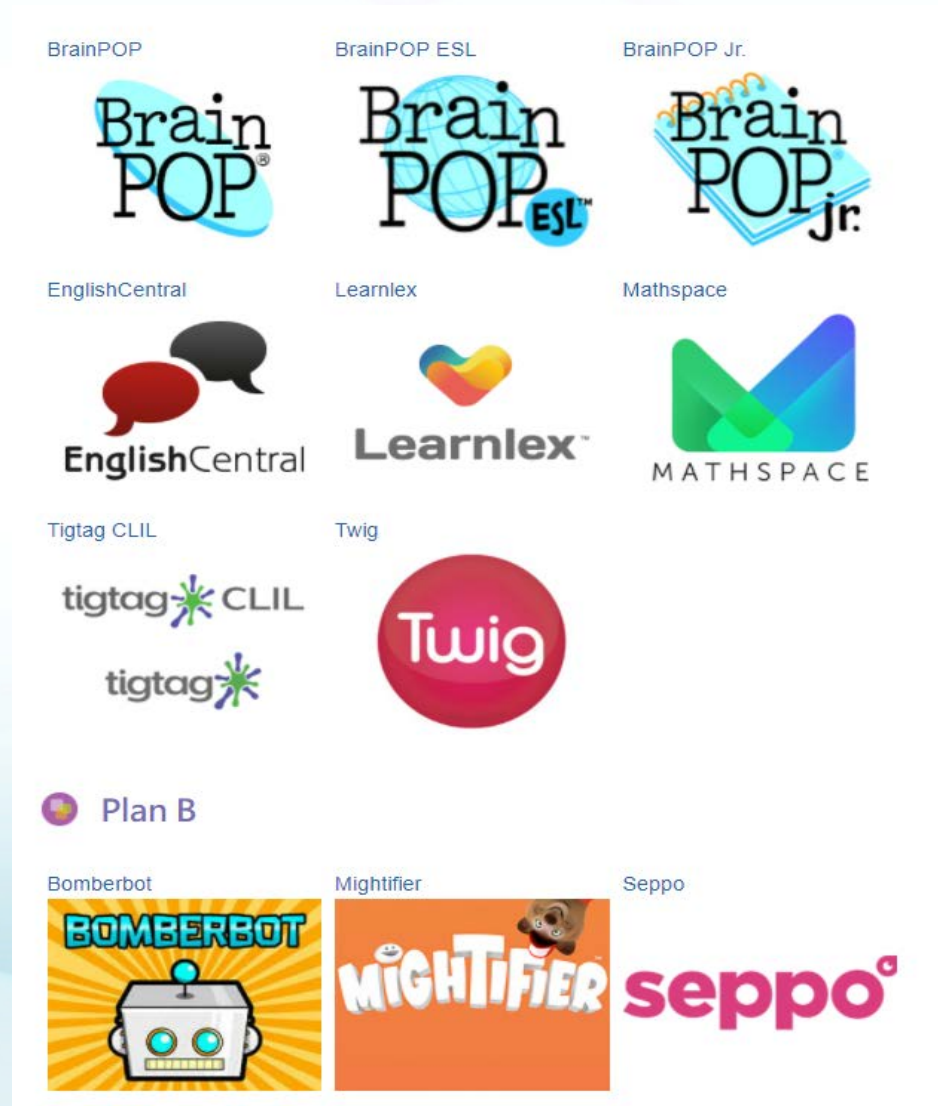
VLE  
[vle.hkedcity.net](http://vle.hkedcity.net)

# eREAP

eREAP  
[www.hkedcity.net/ereap](http://www.hkedcity.net/ereap)

# *eResource Adoption Program (eREAP)*

- Global acquisition of quality eResources for large scale adoption
- >240 schools participated
- Coordinated evaluation
- Centralized tendering



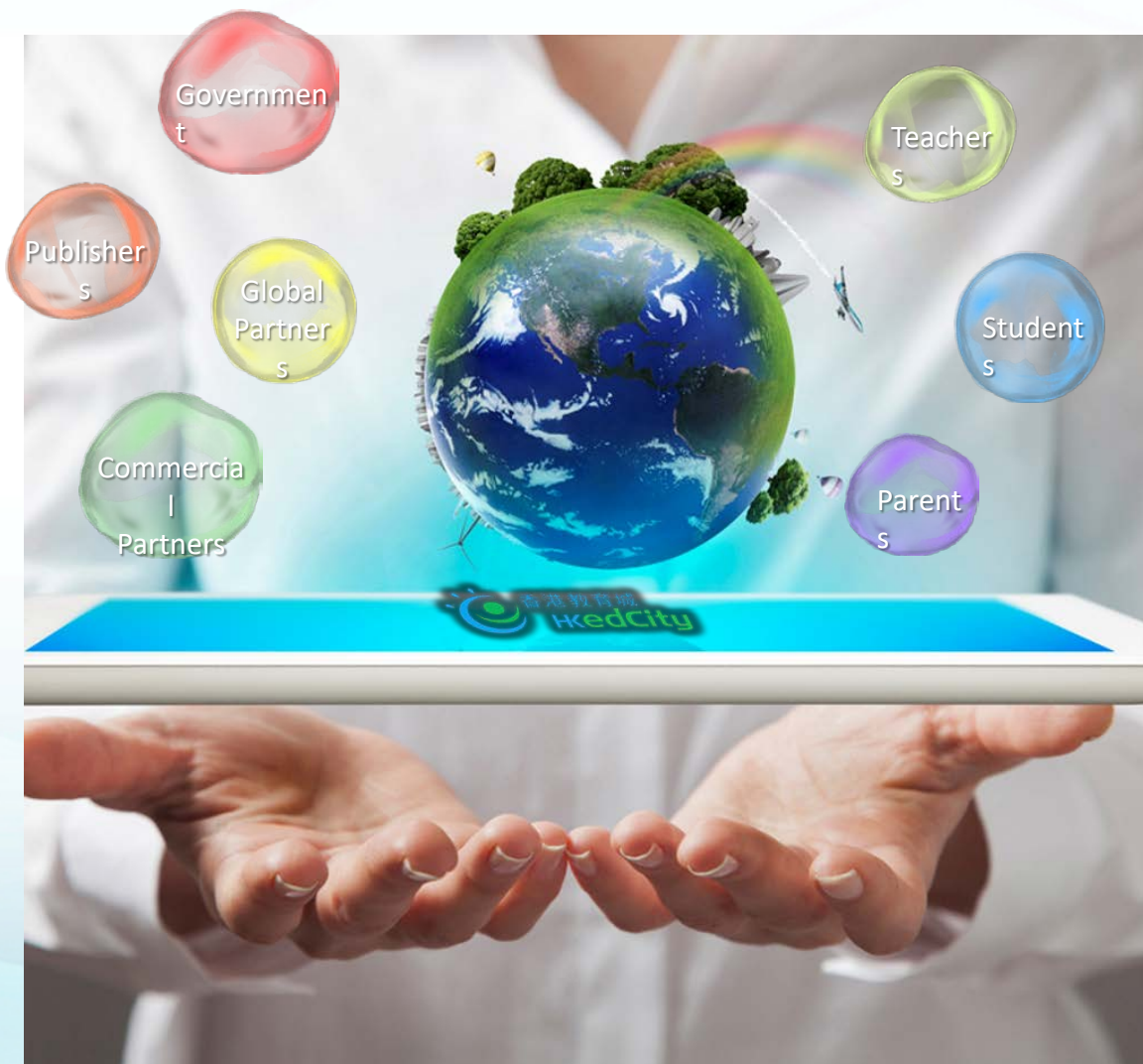
# International collaboration



England  
France  
Australia  
Austria  
Taiwan  
Finland  
China  
Sweden  
Singapore



# *Co-developing an Innovative Education Blueprint*



תודה  
Dankie Gracias  
Спасибо شكراً  
Merci Takk  
Köszönjük Terima kasih  
Grazie Dziękujemy Děkojame  
Ďakujeme Vielen Dank Paldies  
Kiitos Täname teid 谢谢  
**Thank You** Tak  
感謝您 Obrigado Teşekkür Ederiz  
Σας ευχαριστούμε 감사합니다  
Bedankt ඔබට  
Děkujeme vám  
ありがとうございます  
Tack