Cloud in Education

National e-Learning Platform Enriched With Big Data Deployed On Cloud



Thareendra Kalpage Microsoft Sri Lanka Real Impact for Better Belle July Bullet Bengelidtion.

Some trends & challenges that are shaping the market today

The world is evolving

New global workforce trends means new demands placed on education

Global demand for higher education will expand from **97 million** students in 2000 to **263 million** students by **2025**.

77% of all jobs will require technical skills



over 80% of new apps will be distributed or deployed on clouds in 2012.





Shifting Workforce:

Demand for skilled workers means more students in higher education

Economic Realities & ROI:

Global economic pressures forcing institutions to do more with less, seek better ROI

Devices & Access:

Devices and online learning transforming learning and outcomes

21st Century Skills:

Increasing focus on impact of ICT on employability and workforce readiness

Products & Solutions:

New technologies and innovations coming from everywhere



The world's **mobile worker** population will reach

1.3 billion

—over **37%** of the total workforce—by **2015**.



65% of companies are deploying at least one Social software tool.



80% growth

of unstructured data is predicted over the **next five years**.



70% of businesses are either using or investigating cloud computing solutions

investigating **cloud computing solutions**Meaning they seek workers familiar with cloud solutions



21st century learning

Preparing students for the future

Blending formal and informal



Digital content revolution



Employability and readiness



Personalized Learning



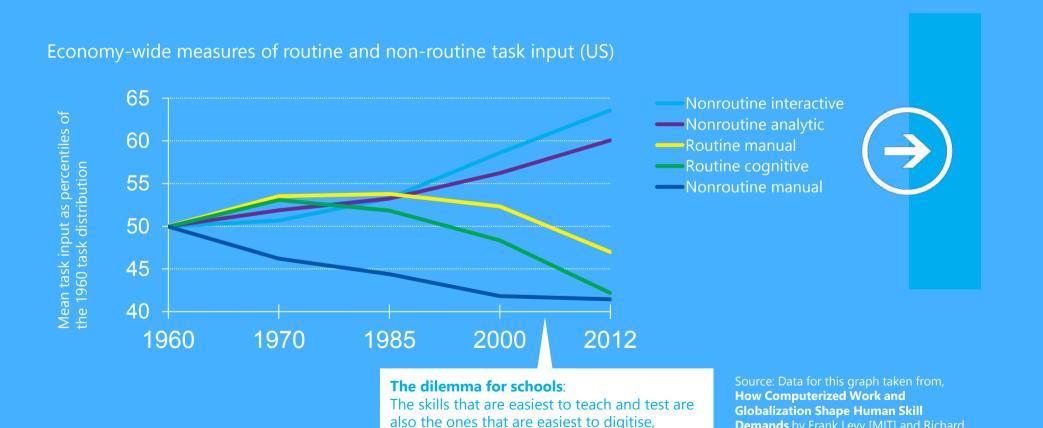
Technology moving online in synchronous and asynchronous deliveries

Availability of information and the notion of just in time learning

Big Media has gone micro –content being digitized and delivered in online formats

Increasing focus on employability and workforce readiness Increase in data and the relative affordability of computing resources Environment for each student where he/she learns best and most effectively

how the demand for skills has changed



automate and outsource.

Demands by Frank Levy [MIT] and Richard

Murnane [Harvard Graduate School of

Education], 2005 publication

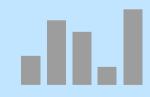


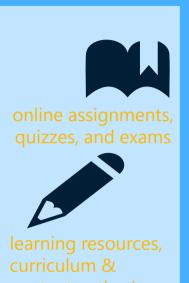
What can Schools do to cope with those trends and build towards their goals?

what is the education system looking for?



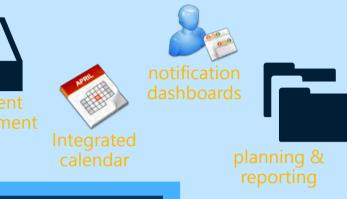
collecting data





















management



friendly platforms



parent & alumni involvement





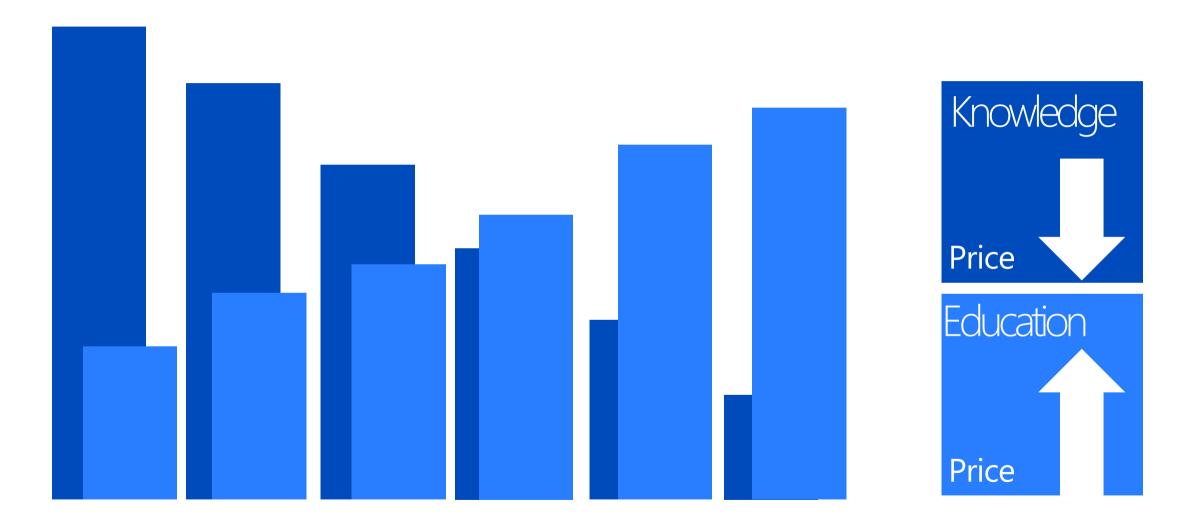
learning platform administration





Students protection, Secure devices, Integrity

The Education Challenge





What is e-Learning?

Use of electronic media and ICT in education

✓ Inclusive of all electronic media including VLEs ✓ Inclusive of all types of media, ie text, audio, images ✓ Web based sharing & collaboration platforms ✓ Self paced & flexible learning, for blended learning e-learning... ...a pillar in building knowledge societies

The key elements of e-Learning

The three pillars that make a digital campus tick



8

EMPOWER

ENGAGE

EXPOSE

Understanding the benefits

Key benefits of e-Learning across the new digital campus



Dashboard

More information





Nicolaus Copernicus



Burning magnesium



Drought-resistant grass



Spray-on skin cells



Why use a pool cover?



Jenolan Caves



Chips and a drink please?



Expanding joints



Rabbits eat Macquarie Island



Murrumbidgee River



Popcorn bounce!



Between sky and sea



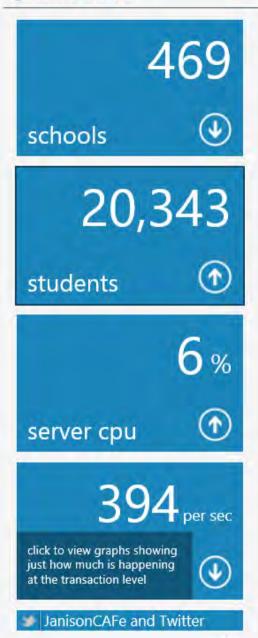
There's an emu in the sky!



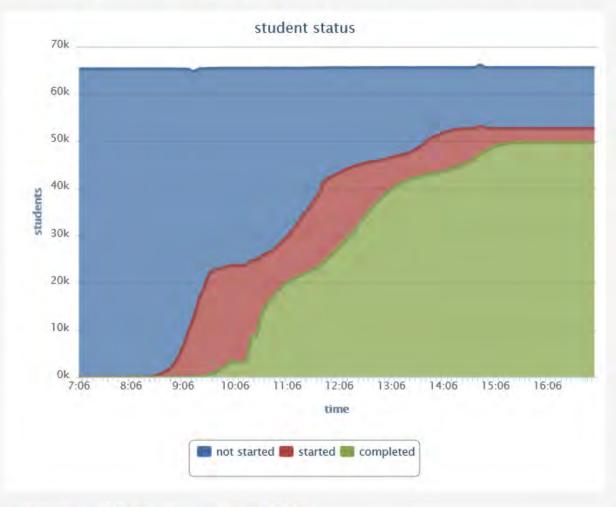
What does your heart do?



Exit survey



student status active students stuc



reviewing 13th november 2012



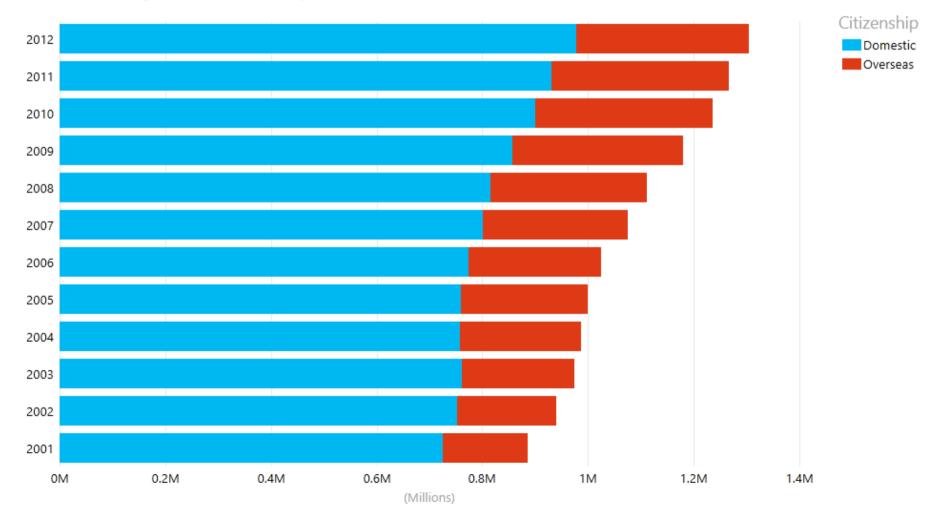




show student count by year, by citizenship

Show student count and citizenship sorted by year descending



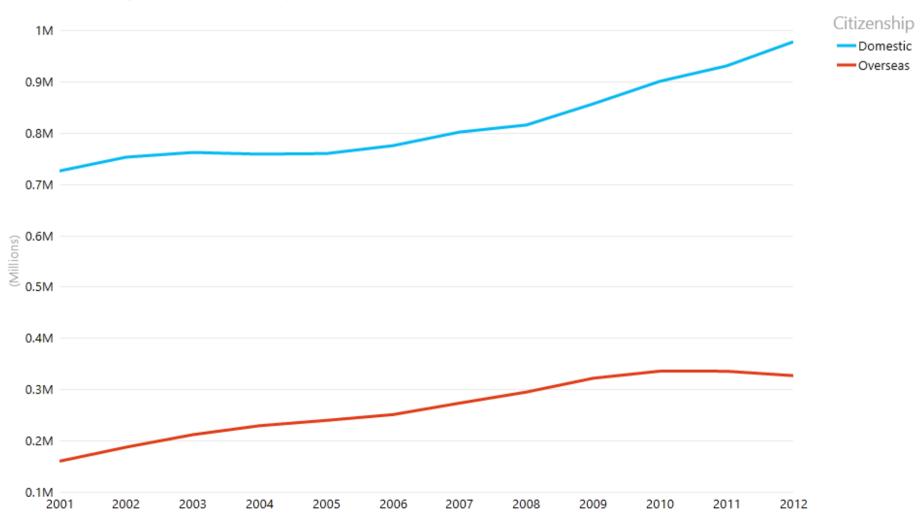




show student count by year, by citizenship, as line chart

Show student count and citizenship sorted by year descending as line chart



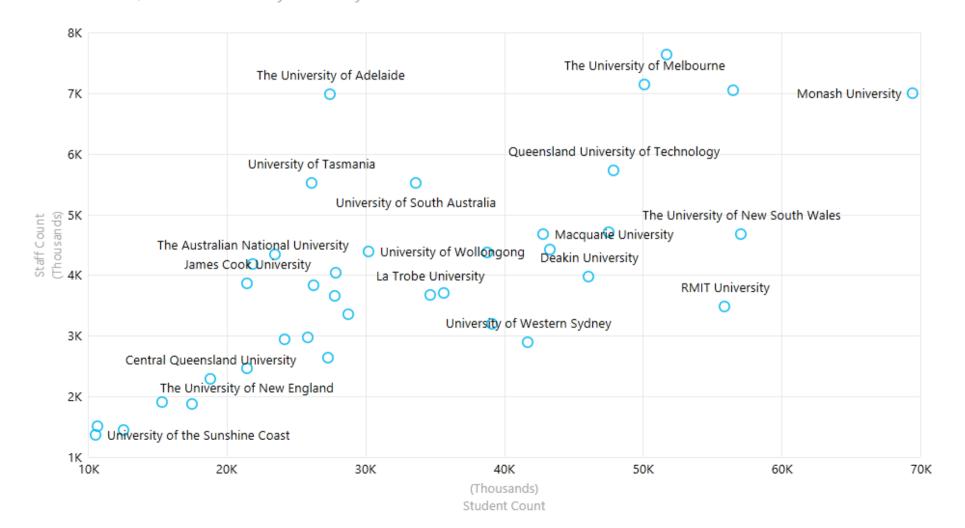




show student count versus staff count, by university for 2012

Show student count, staff count, and university, where year is in 2012

Student Count, and Staff Count by University





low student staff ratio vs attrition rate, by university for domestic for 2011

Show student staff ratio, attrition rate, and university, where citizenship is domestic and year is in 2011

StudentStaff Ratio, and Attrition rate by University





show me national schools in map

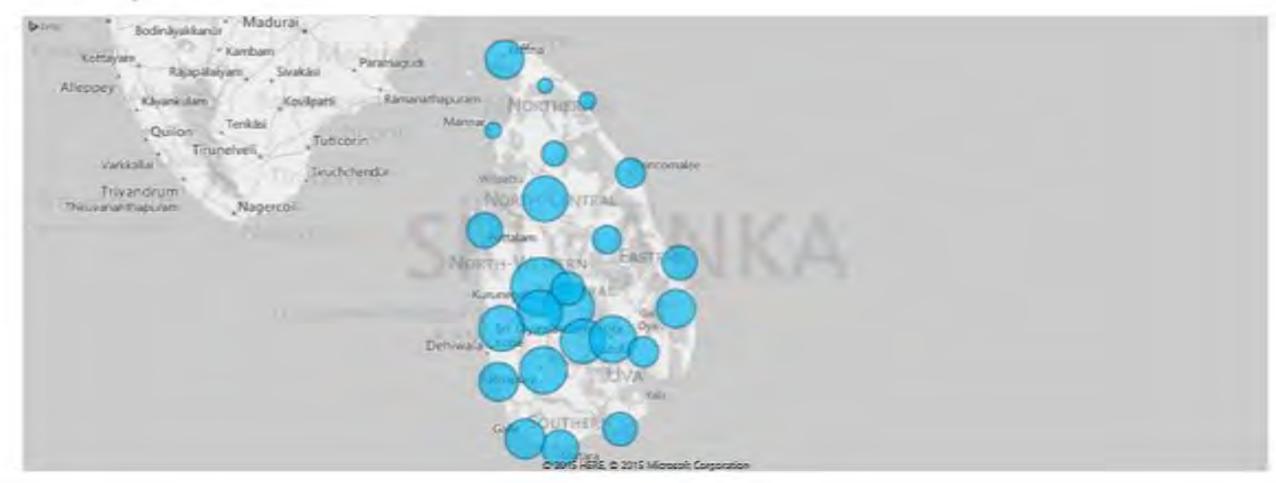
圖:





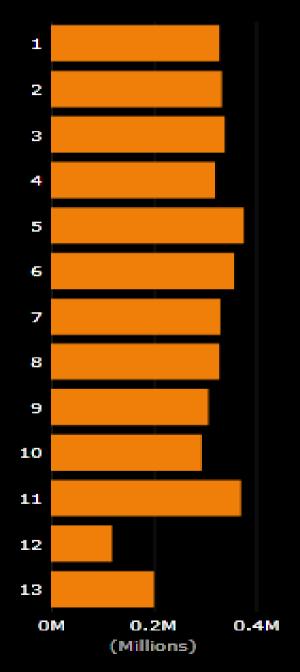
Show table 6s and their school as map

Schools by District



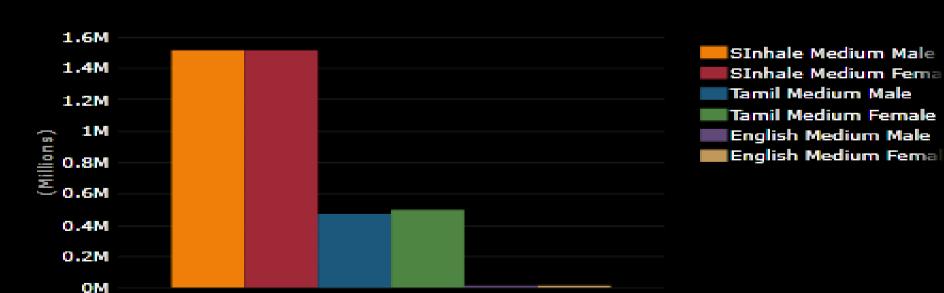
Total Students by Gra

Dashboard on Grade



1512205 SInhale Medium Male Students 471188 Tamil Medium Male 1081 English Medium Male

1511228
SInhale Medium Female Students
495460
Tamil Medium Female
1252
English Medium Female



A day in the life of a student (SCENARIO)

Prepare for School

Learn at School

Learn Outside of School

Work on Group projects

Entertainment & Hobbies

Gain Skills to prepare for real world

- At night student
 reviews next day
 activities
 including sports,
 what materials to
 bring for external
 and teamwork
 activities
- Prints and Save
 Group
 presentation or
 Notes to study
 for exam to
 review on school
 bus of Frence Partial

- Takes and share
 notes or copy notes
 from the best
 student of the class
- Interact with

 facebook and twitter
 about the class and
 after school
 activities
- <u>Create</u> documents for classes and capture information from different internet sources

- <u>Search for</u> <u>information</u> to do homework
- Review audio & video recorded in class
- Creates documents
 while visiting other
 friends or while using
 the parent computer
 at their work
- Share notes, information and ideas while in the car driving (parents) back home

- Shares documents, information in real time with other students
- Calls and video conference with other students from their school or other school
- Video Gaming,
 Robotics,
 Astronomy,
 Photography and
 Art activities
 outside the school
- Agenda with friends fo schedule group activities related to a sport
- Studies extra curricular material and topics including other languages or technology related topics like Mobile and web development, databases, Graphic Design



