School Environments of the Future

Monday, May 14, 2018
Session Outline:

- Technology
- Population (Demographics and Shifts)
- Curriculum
- Financial Pressures
- Future Employment Opportunity for Students
- Challenges and Opportunities for Bus Operators

(Small and Large Group Discussion)
Setting the Stage...

https://www.ontario.ca/page/discussion-paper-new-vision-student-transportation
Technology - Predictions for the Future

- Self-Driving Cars.
- Clean Energy.
- Virtual and Augmented Reality.
- Drones and Flying Cars.
- Artificial Intelligence.
- Pocket Supercomputers for Everyone.
- Cryptocurrencies.
- High-Quality Online Education.
Population Demographics

Proportion of people aged 14 and under and 65 and older in Canada

- 0 to 14 years
- 65 and older

Data: Statistics Canada, 2016 Census of population
Population Demographics

- In 2016, the number of seniors outnumbered children 14 years of age and younger.

- By 2031, 1 in 4 Canadians will be over 65.

- Baby boomers getting older, life expectancies increasing and lower fertility rates
Population Demographics

- Population growth will be augmented by immigration.

- By 2031, Ontario’s population will include 40% visible minorities.

- India and China are the largest source of new Canadians (who typically immigrate to Quebec, Ontario or B.C. with Ontario being the preferred destination).

- Mostly move to large urban centres.
Population Shifts (Stats Can)

- Nearly half of Canadians in metropolitan areas live in low-density neighbourhoods.
- Fewer households in high-density central neighbourhoods have children 18 yrs or younger. (Eg. 2001 Montreal - 38%)
- Most households in low-density areas have children 18 yrs or younger. (Eg. 2001 Montreal - 58%)
- Families have continued to migrate out of high-density areas to low-density neighbourhoods. (housing costs)
Financial

- From 2006 to 2015 the Ontario Ministry of Education’s spending per student has increased 23.4%, but with a 5% drop in enrolment.

- Continued pressure to move $ into per pupil funding and employment contracts, i.e. teachers, EA’s, ECE’s, etc.

- Election in Ontario coming up!
Curriculum

- Today’s JK student’s vocabulary is 5X greater than that of a similar aged child in the 1960s.
- Virtual Reality classrooms; global vs local experiences
- High powered personal devices that eclipse today’s cell phones
- Curriculum that continues to be compacted (interesting literature re the importance of collaboration, communication, social skills, etc. given the importance of digital education)
- Flexible days
- Student-interest driven
- Increased expectations and outcomes
- Audio/video/social media access is 24/7
Employment Opportunities for Today’s Student

- 70% of the employment opportunities for today’s JK student have yet to be developed.
- Today’s secondary school graduate can expect to be employed in about 10 different jobs throughout their employment history.
- Continued erosion of the middle class.
- Areas of need will be: Health Field, Education, Skilled Trades, IT Security, Software Development.
Small and Large Group Discussion (20 to 30 minutes)

Think, Pair Share Activity

- What will be the main challenges for your industry in the next 5 to 10 years?

- Given the information shared, what are some opportunities your industry can create? What strengths can be built upon?