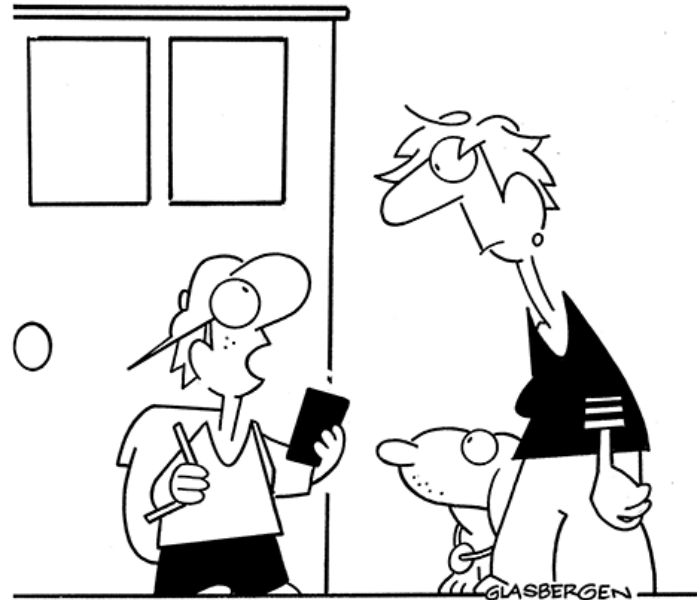


Effect of technology on children's education

Alex Grushetsky, Swapnil Hajela, Matthew Wiggins

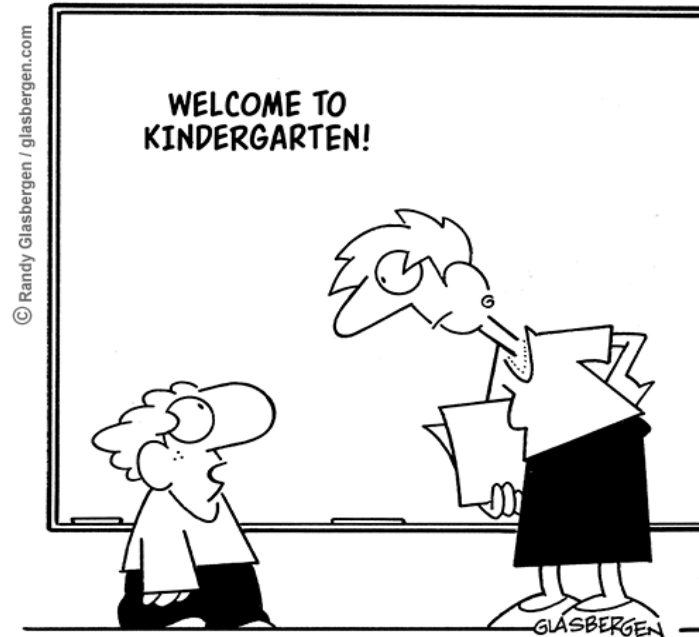
Children's Tech Proficiency

© Randy Glasbergen / glasbergen.com



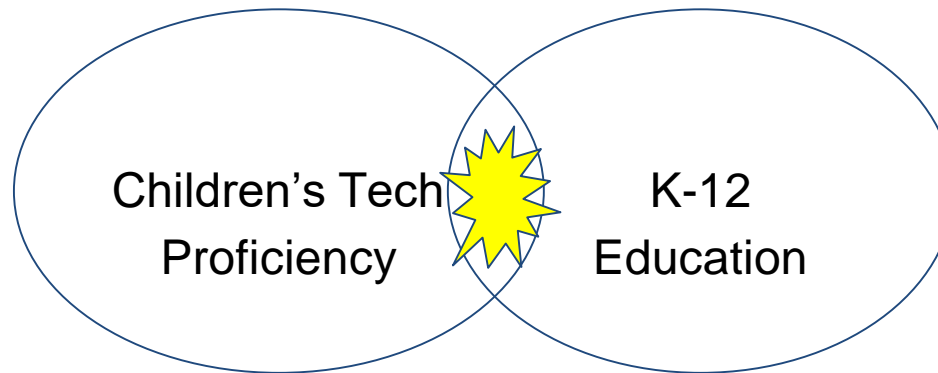
“Why am I going to school if my phone already knows everything?”

K-12 Education



**“You’re telling me it will take 13 years
to install my education! What kind of
outdated software is this school using?”**

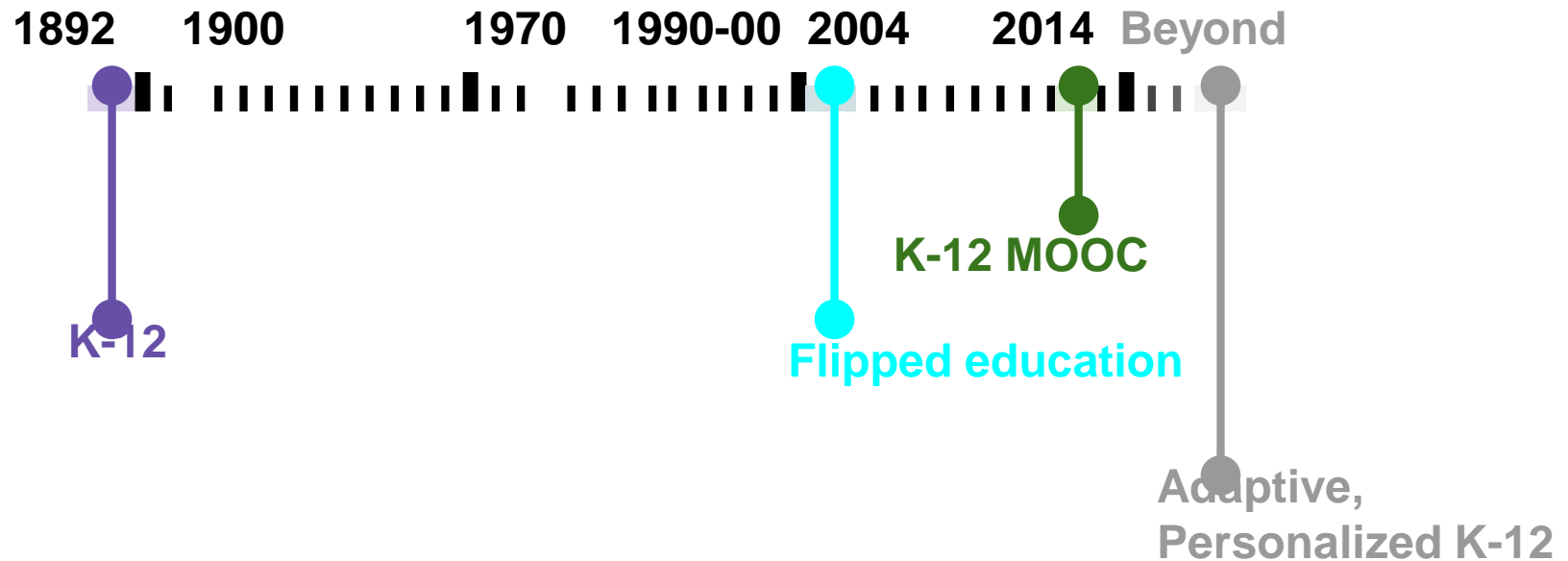
Observation of Change



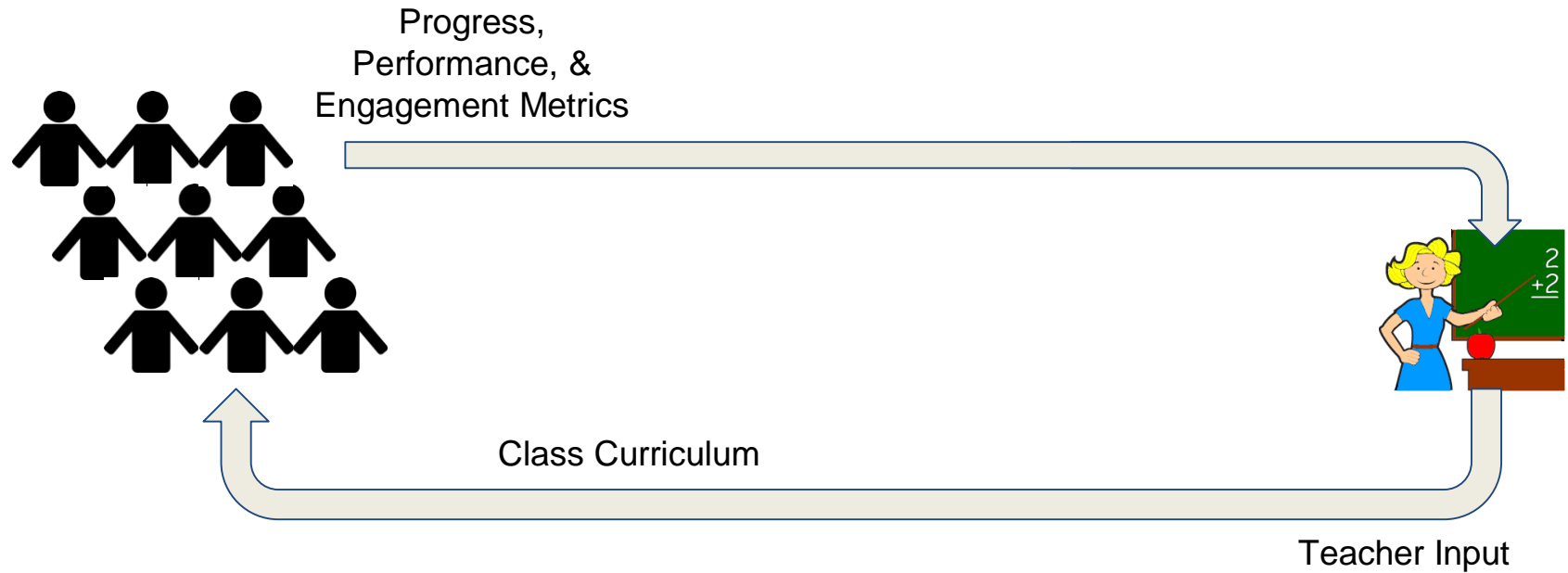
- Children are now familiar with digital devices and networked communications
- K-12 education is not yet fully utilizing these new capabilities

Hypothesis: Adaptive, personalized curricula will soon revolutionize K-12.

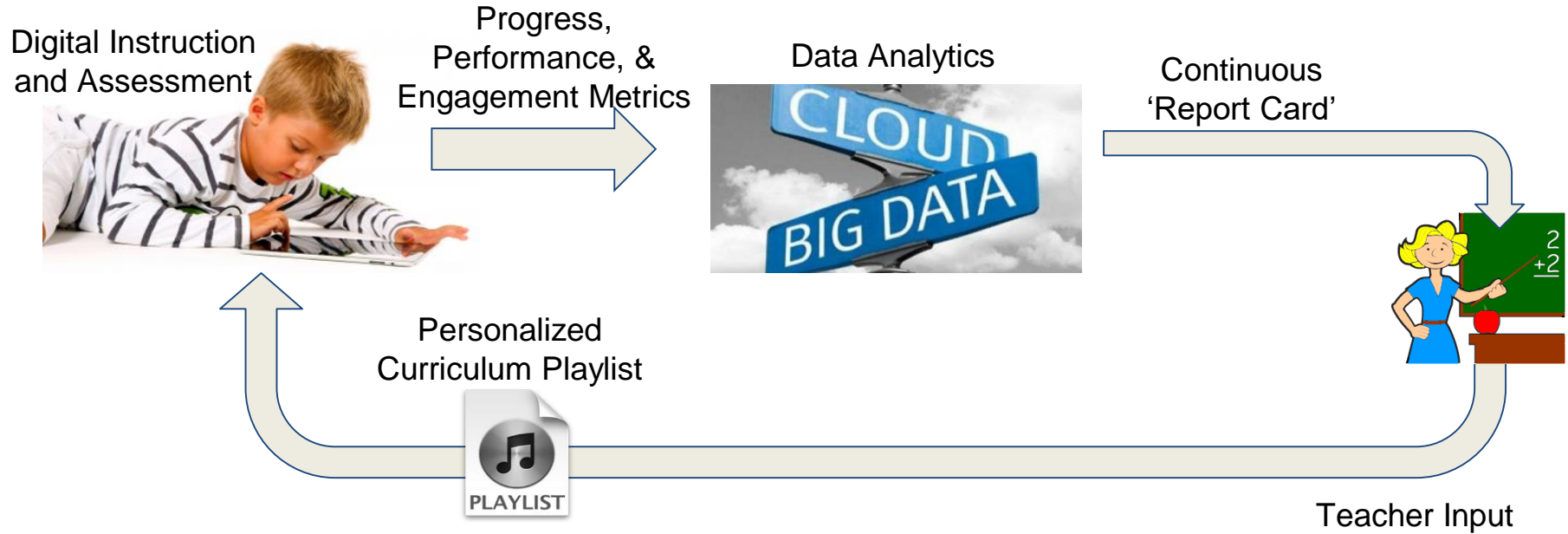
K-12 Education timeline



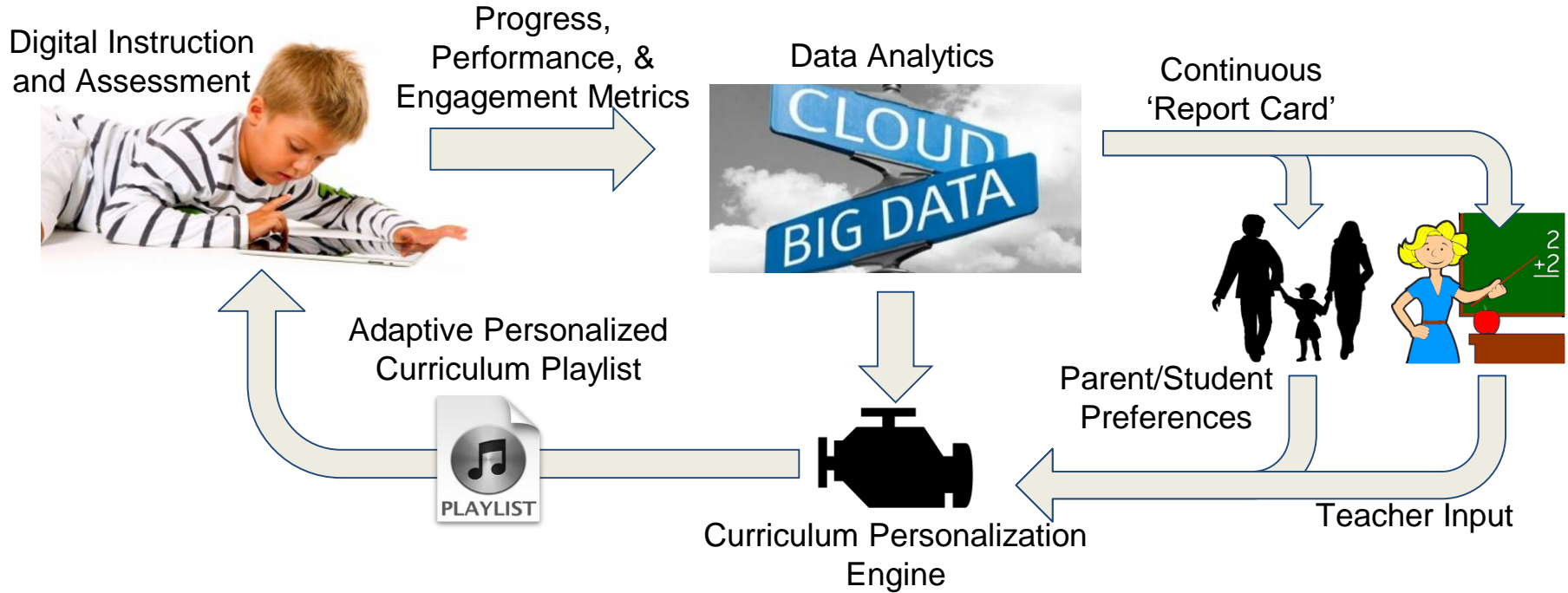
Traditional Curricula



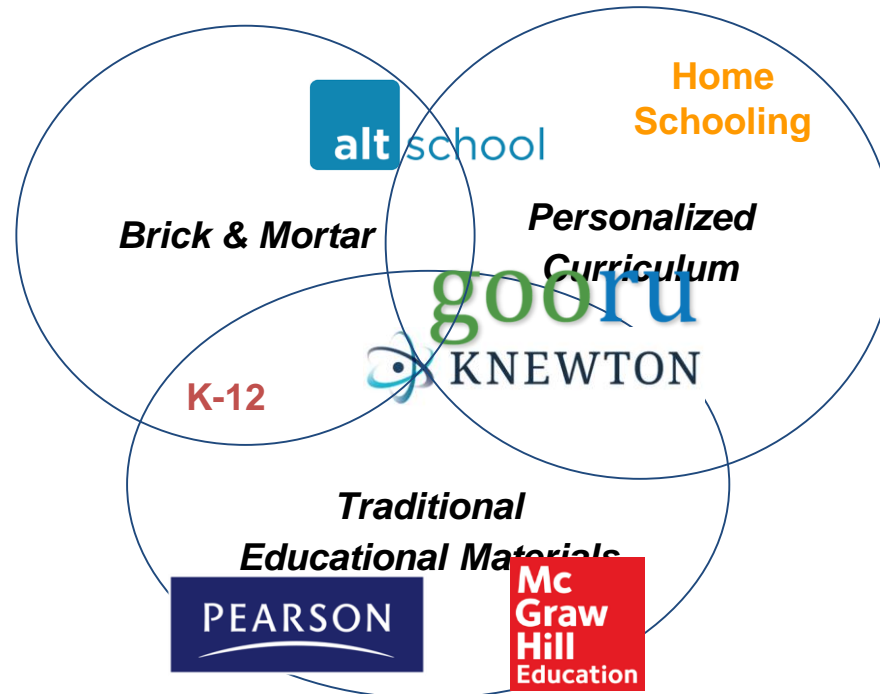
Personalized Curricula



Adaptive Personalized Curricula



Ecosystem Players




Societal Factors

- Resistance to change
 - Parents - unfamiliar format; security/privacy
 - School districts - funding; social skill development; special needs; coexistence with K12
 - Teachers' union - new skills, roles, and responsibilities
- Acceptors of change
 - Taxpayers - reduced costs per student
 - Universities - better prepared students
 - Employers - better prepared workers
- Equalization Effect
 - Levels the playing field
 - Real Estate values



Predictions

-  KNEWTON best positioned for this \$10B+ market
- 10 year evolution toward
 - **better educated students** - increased college attendance, preparation, and specialization
 - **increased efficiency** - reduced cost per student while covering more material
- Significant shift in K-12 institution
 - Adaptive Personalized Curricula via tablets
 - Less stratified by grade-level
 - School district and educators - evolve to support non-academics (physical fitness/extracurriculars) and special needs

Conclusion

