

Microsoft Corporation

Connected Learning



We are Actively Learning Alaska...

Big Alaska

- Largest State by landmass
- Coastline larger than all states in lower 48 combined
- Bestowed with natural beauty

Unique Alaska

- Schools remote
- Limited Internet
- Teacher Hiring / Retention
- Teacher PD critical
- Native +
 academic
 knowledge key
 (e.g. North
 Slope)

We believe...

- Education is a People business
- Every student a Curious and
 Active Learner
- Every teacher supported in this mission
- Technology an enabler



Most Edu projects start with the technology acquisition...resulting in limited st

We Believe....

Online / Offline Cloud Services are critical

Devices/technologies need to be affordable

Educators are key

Students are Learners

Microsoft in Education

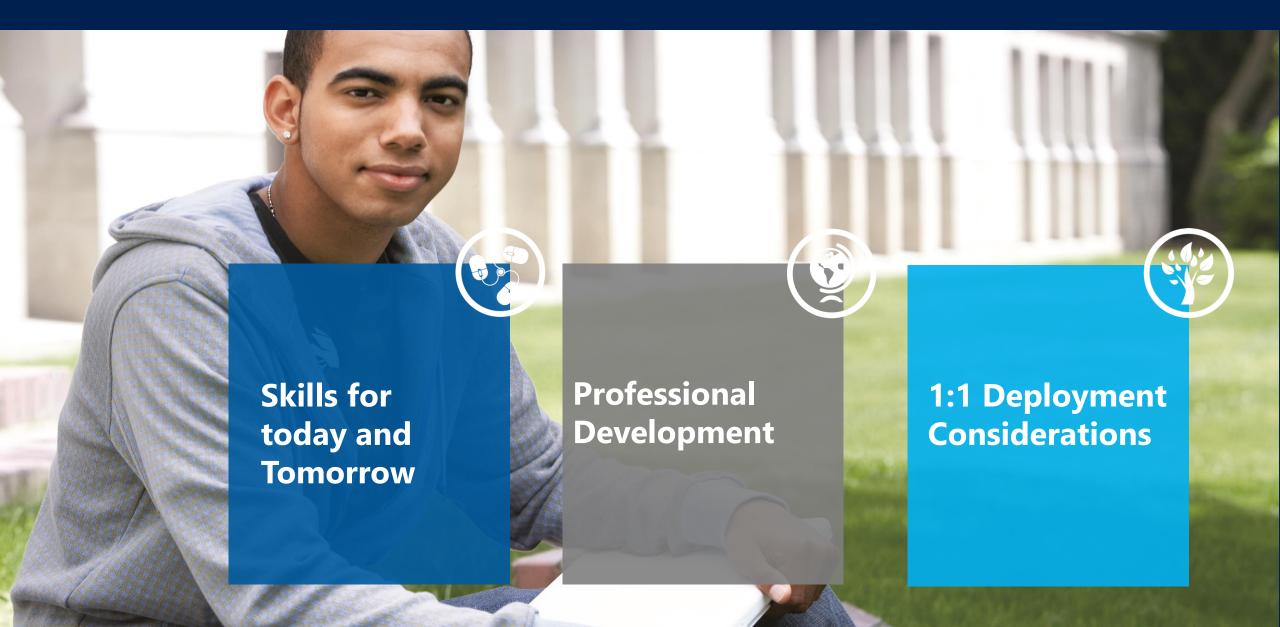








Our Shared Imperative – Discussion for Today



Skills for today and tomorrow





College and Career Trends impacting teaching and learning

Developing 21st Century Skills













Here and Now: Skills for tomorrow's workforce

Insights into transformative teaching practices



Problem solving & innovation



Global awareness



Skilled communication



Collaboration

IDC report: Skills requirements for tomorrow's best jobs

Comparison of Top Skills for High-Growth/High-Wage Occupations and All Occupations in the United States High-Gro 2020 Oral and written communication skills* Microsoft Office* Detail oriented* Problem solving* Self-starting/self-motivated eting Organizational skills* Work independently Microsoft PowerPoint* hing, Project management* วท Sales experience Trade Troubleshooting Customer service oriented Time management Business development Analytical skills* Microsoft Word* Bilingual/multilingual* Strong interpersonal skills* Work ethics jobs Jobs co Linux 12 14 16

All positions

High-growth/high-wage positions



WHITE PAPER

SKILLS REQUIREMENTS FOR TOMORROW'S BEST JOBS Helping Educators Provide Students with Skills and Tools They Need

Sponsored by: Microsoft

Cushing Anderson October 2013

John F. Gantz

IDC OPINION

Local, state, and even national education leaders are charged with developing and administering educational curricula to best prepare our children and students for their tuture. Yet there can be tension between a curriculum that develops a "well-rounded" student and a cumculum that helps create a student who is "Job or career ready."

Most specifically, IDC has observed the use of technology in the classroom as an object of study or as a way to artificially capture and retain a student's attention by alluding to a path to postscholastic success. Unfortunately, this approach has the potential to take valuable class time away from common and widely valuable

IDC research suggests that skills and competencies that support a well-developed, discally competent student are the same skills that will be widely in demand by employers in 2020 and beyond, IDC analyzed 14.5 million job postings to identify the top stills required for the positions expected to have the highest growth and wages between now and 2020. These positions represent a set of common, core skills between flow and cucu. These puseums represent a sec of soft skills such as oral and written communication skills, attention to

IDC uncovered a subset of soft skills focusing on communication, integration, and Do univovered a subset of soft sense locusing on communication, integration, and presentation (CIP) skills, which are overwheimingly desirable in high-growth, high-wage presentation (CIP) sinis, which are overwineshingly debitative in Ingergrowth, Ingertage occupations. Further, Microsoft Office was the only software package to appear among the top 20 skills required for these high-growth/high-salary positions, coming in at the top Δu same required for street ingergrowner growth y processor. Various u in our number 3 on the list, and was cited as a required skill more than five times as often as

- E3 High school students require "job readiness" and not "job training" for success.
- The value of proficiency in common, frequently required skills is increasing. E3 Focus on real-world tasks like CIP capabilities fosters both a well-rounded FOCUS UN TEAMWORD MARKS THE CITY CASPAGNINGES TOURIES MOULD A METITIONER SUBJECT AND A METITIONE

IT Academy – U.S. State Adoptions

North Carolina

Every high school across the state



Hawaii

Libraries statewide – first in the world



Arkansas

Every high school and workforce agencies



Georgia

Every high school across the state



Utah

High schools and Higher Education statewide



Washington

Every high school -- statewide ITA and certifications



Virginia

Every high school across the Commonwealth



Louisiana

High schools statewide



Alabama

High schools in every local education agency in state



Florida

High schools *and middle* schools statewide



Microsoft's Value Proposition











Immersive experience

Modern skills development

Safety of children

Teacher development

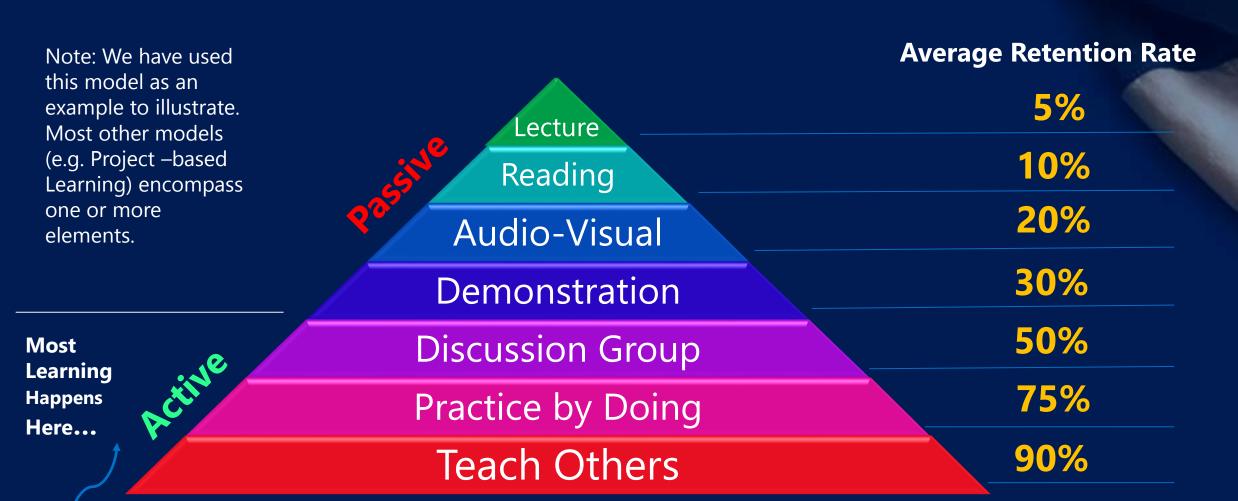
Collaboration Tools

- Involved learning environment
- Integrated technology in all aspects of the classroom
- Cross-student and cross-classroom collaboration
- Effective communication
- Global awareness
- Creative problemsolving

- Proven Device Security
- Easy Application Management
- Secure **User** authentication

- Free access to proven teacher development programs
- Online resources at PIL network.
- Increased productivity with Office 365
- Facilitated collaboration to SkyDrive
- Enhanced communication through Skype

The Learning Pyramid – only one of many...



Our best teachers operate here too...

Source: National Training Laboratories

AROUND THE WORLD IN 80 SKYPES (A Distance Education and Active Learning Class)

Class

 4th/5th Graders in Atqasuk

Goal

- 80 Skypes with Researchers or other Classes around the world
- Plan to cover 80 topics

Format

- Mystery Skype: To guess the city of the class
- Culture
 - Foods
 - Customs
 - Celebrations, etc

Mrs. Megan Gunderson, Teacher Meade River School Atgasuk, Alaska



Skype uses Peer-to-Peer Networking – Great for low-bandwidth environments. And it is free.



Teacher driven phenomenon. Over 3,000 lessons posted from teachers in 160 countries.



Relevant and topical lessons posted daily, following trends and news of the world.

Three ways to use Skype in the classroom



Collaborate with other classes, no matter where they



Find guest speakers and invite them into your classroom



Take a virtual field trip anywhere in the world

Breaking down geographic and economic barriers to allow world class learning for all students.



Easy search and navigation to hundreds of partners, guest speakers and collections available to all

A Day in the Life...

Unit: African Savanna Ecosystem

Goal: To understand the causes of the catastrophic decline of the Lion

population

Guest: Professor Craig Packer (Serengeti Lion Project)

A Look at a Day in the Life of an Active Learning Classroom...

A Day in the Life...Lecture

- Lesson Planning: Ms. Sanchez plans her lesson with Microsoft OneNote and posts it onto her Office365 Class Site.
- Lesson Plan Dissemination: Students can go to the Office365 Class Site online any time to preview the next day's lesson and reading references.





A Day in the Life...Reading

- Students are excited about meeting Prof Craig to hear about the new litter that were just born
- Safe Search: They use Bing for Schools to safely search for a background on the Lions
- Interactive Textbooks: They also use their Kno Interactive Textbooks



A Day in the Life...Audio-Visual

- Videos: Students view videos about the Serengeti from the African Wildlife Foundation or go to Discovery Channel
- Active Note Taking: In preparation for their project, students make notes, copy links, voice record into Microsoft OneNote. They then save their notes into their secure, personal Office365 Digital Locker.
- Interactive Apps: The also downloaded an application about Africa from the Windows App Store.





A Day in the Life...Demo/Discussion Group

- Online Collaboration: Students see a demo of feeding time with the Lions with Prof Craig Parker using Skype for Classrooms
 - They also get to ask Prof Craig Packer questions over Skype
 - · They also can ask questions through Instant Messenger via Microsoft Lync
- Peer Discussion Group: They share drafts of their work with their peers using Microsoft Yammer (discussion forums)





A Day in the Life...Practice by Doing

- Writing the Proposal: Students now use Microsoft Word to develop their proposals for Saving the Lions (Content, Biblio, etc)
- Analyzing Data: They do a cost / benefit analysis of designating and building out a Lion Sanctuary using Microsoft Excel
- Proposal Submission: They post their proposals onto the Office365 Class Site.
- Peer Review: They peer review each other; making comments into Microsoft Word.





A Day in the Life...Teach Others

- Student Presentation ("teach"): Students now "teach" their peers their findings by doing a presentation with Microsoft PowerPoint.
- Online Presentation: Students also present their findings to Prof Packer through Skype.





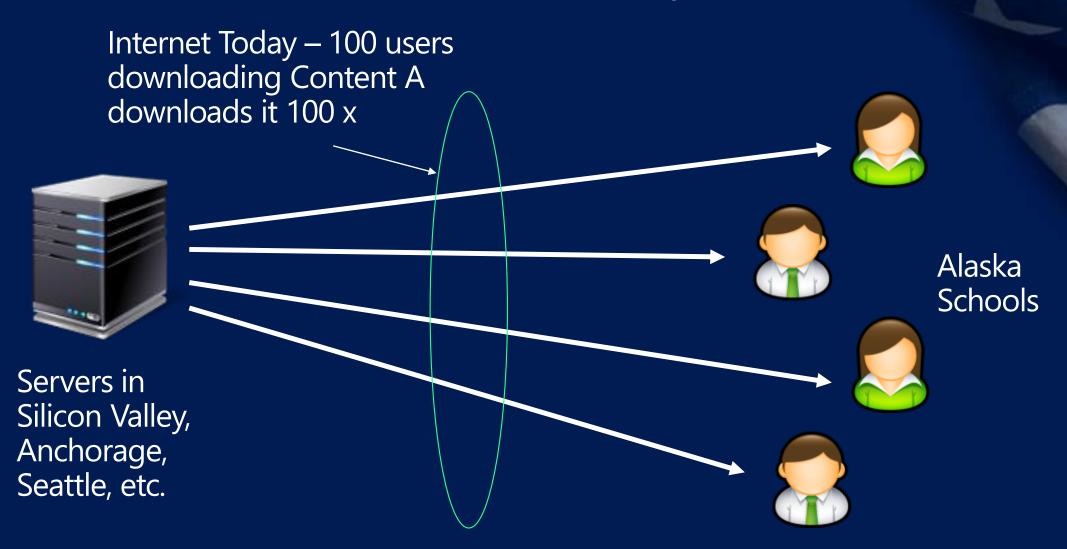
Recommend that every teacher given support to deliver 1 "Active" Lesson per Week. Microsoft PIL can help support.

One Final Note...

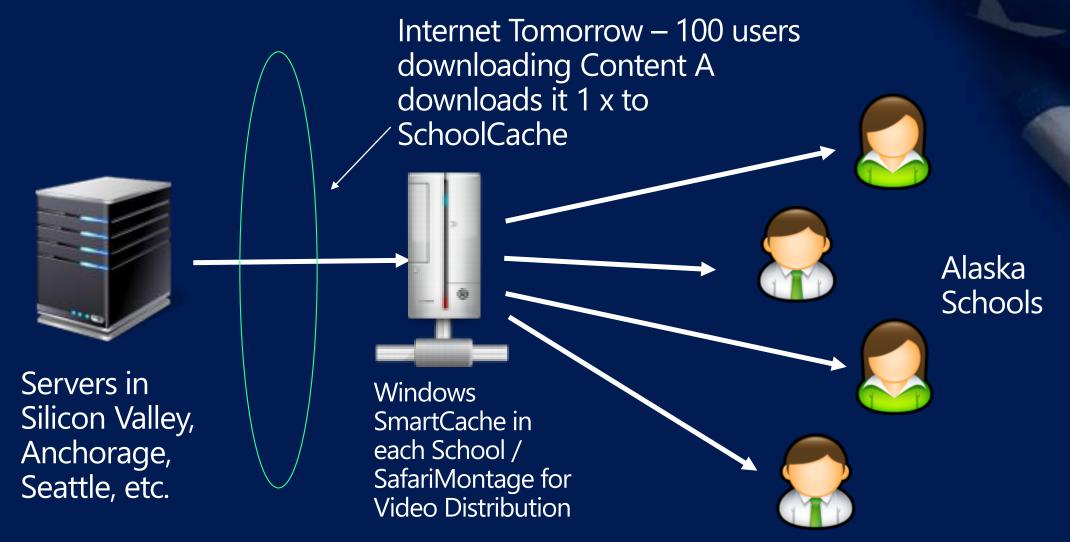
- Teacher Professional Learning Communities: Teachers use Microsoft Yammer to participate in online Professional Learning communities.
- Informing Instruction: Teachers use Microsoft Analytics to capture formative and summative evaluation to inform instruction

Addressing the Questions of Bandwidth and the Teacher shortage...

Internet Bandwidth (Today)



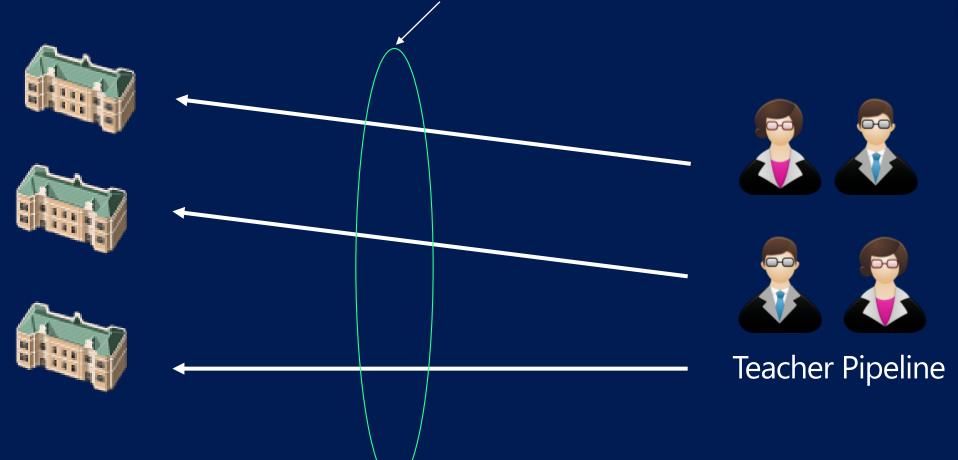
Better Internet Bandwidth (Tomorrow)



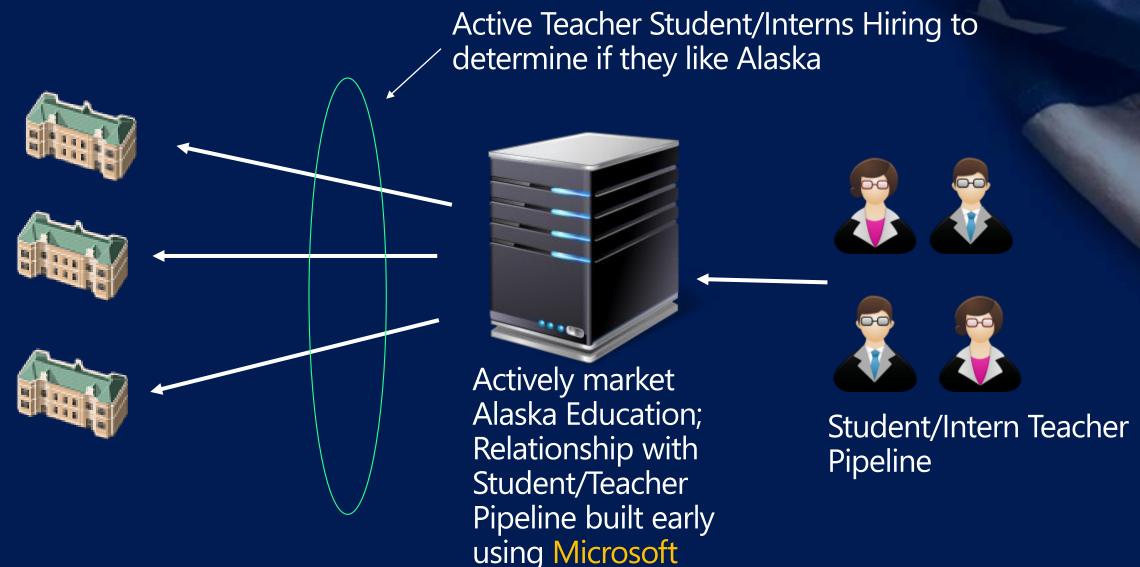
Recommend 1 SmartCache per school.

Managing the Teacher Pipeline (Today)

Hiring happens after graduation



Managing the Teacher Pipeline (Tomorrow)



Dynamics XRM

Recommend: Active Teacher Recruitment Campaign in Alaska

Educational Resources from Microsoft

Creativity



Critical Thinking







Movie Maker

Kodu



Office Web Apps



Local Language Tools



World Wide Telescope



Touch Develop



OneNote



Lync



Song Smith



Microsoft Math



Office 365



Skype



Photosynth



Excel



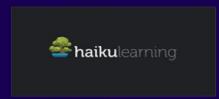
Bing Translator

Elementary

Start



School Apps









Science





Star Chart





Math









English







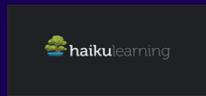


Middle School

Start



School Apps









Productivity







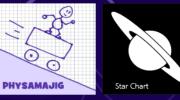


Science









English









Secondary

Start



School Apps





Calendar







Productivity



w







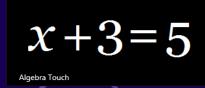




Math







CC BOOK Mathematics

Geometry: Circumference and Arc Length



English









Demos

- Numeracy and Literacy for Elementary Students with Windows 8 Apps
- Distance Learning with Lync Video Conferencing
- Real-time Collaboration for Student Projects with Microsoft OneNote
- STEM Learning with microscopes and PowerPoint
- Sharing Class-created Content on a Office 365 Class Site

Professional Development

Supporting the Whole System

Innovative Teaching and Learning Project

Innovative School Program





Microsoft Innovative School

Microsoft's Approach to Teacher Professional Learning

Teacher Effectiveness

Product Training

Teacher Benefits

- MIE Program
- Digital Literacy
- Teaching with Technology
- 21st Century Learning Design
- Peer Coaching

- Windows in the Classroom
- Reimagine Teaching and Learning with Windows 8
- Get More out of Office2013 with Office Web Apps and SkyDrive
- In the Cloud: File Storage,
 Collaboration, and
 Communication with Office
 365
- The Ultimate Collaboration
 Tool: An Introduction to
 OneNote

- **✓** Badges
- **✓ Certificates**
- ✓ Certification
- ✓ Opportunities for leadership through the MIE program
- ✓ Connecting with a larger community of educators through the PIL Network

PIL Network - www.pil-network.com

Select language ▼ Join | Sign in

Microsoft Partners in Learning

resources hot topics community professional development for educators for schools

Monthly Virtual Educator Webcast Series

Presented by Microsoft & International Society for Technology in Education

LEARN MORE (>)









Get free tools for the classroom



Tutorials



Office 365 in the Classroom with Windows 8 Added 10/16/2013

Popular Discussions



ENERAL

Surface in Education

Stay connected

twitter facebook



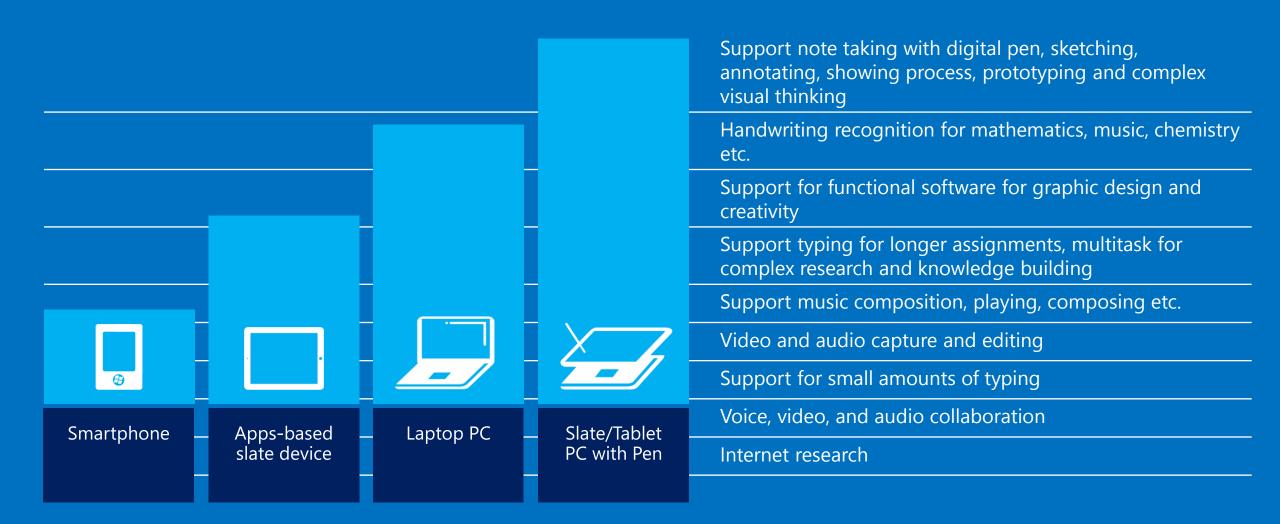
"Education is the most powerful weapon which you can use to change the world"

Deployment Factors



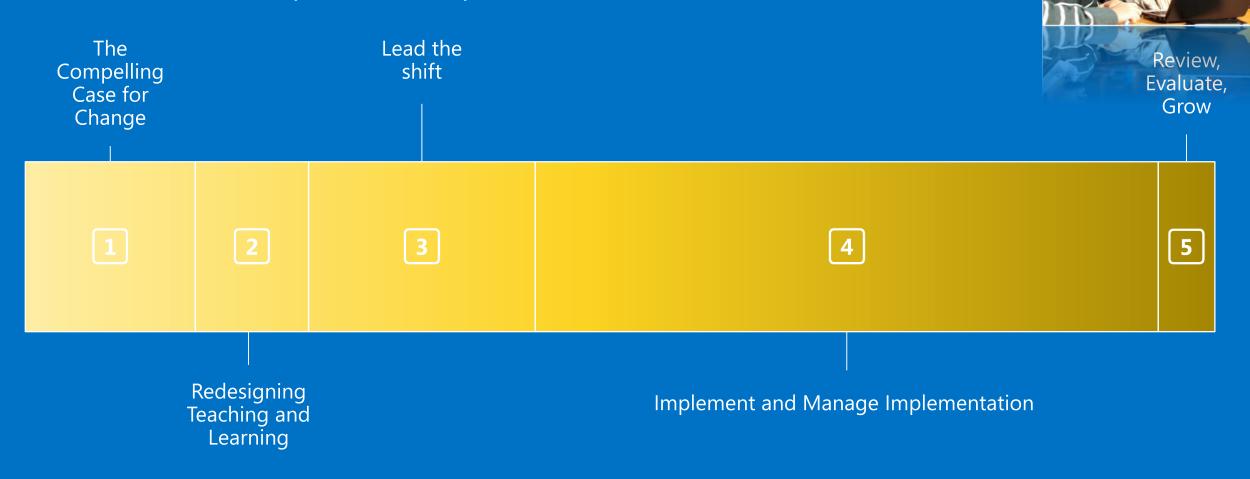
Computing Capability

Pedagogical potential for today's learning environment



Microsoft Design and Deployment Guide

The Microsoft Education Design and Deployment Guide is for schools and school districts as they envision, plan, implement, evaluate and expand 1:1 learning in their schools. There are five phases to this process:



Microsoft education

design and deployment guide A framework for change

Cornerstones of Professional Development For personal and relevant learning

Active learning and 21st Century Skills

Clear goals and champions to lead sustained change

Job-embedded, peer-to-peer local and global communities

Culture of innovation and inquiry

Thank You