Microsoft in Education

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Title: School Technology Innovation Center Manager
A Vision for Education

Corporate Mission
Microsoft helps individuals and businesses realize their full potential

Education Vision
Empower people to realize their social and economic potential by enabling access to quality education experiences for all through technology
<table>
<thead>
<tr>
<th>Traditional Learning</th>
<th>21st C Learning</th>
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</thead>
<tbody>
<tr>
<td>Teacher Centered</td>
<td>Student Centered</td>
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<tr>
<td>Single Media</td>
<td>Multimedia</td>
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<tr>
<td>Isolated Work</td>
<td>Collaborative Work</td>
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<tr>
<td>Information Delivery</td>
<td>Information Exchange</td>
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<tr>
<td>Factual, Knowledge-Based Learning</td>
<td>Critical Thinking and Informed Decision Making</td>
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<tr>
<td>Push</td>
<td>Pull</td>
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</tbody>
</table>

Source: ISTE National Education Technology Standards for Teachers (USA).
The Learning Process

1. Understand
2. Memorize
3. Apply in a creative way
EU 2020 Goals

1. Innovation Union
2. Youth on the move
3. A Digital Agenda for Europe
4. Resource Efficient Europe
5. An Industrial Policy for the Globalization Era
6. An Agenda for new skills and jobs
7. European Platform against Poverty
EU 2020 Goals

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Youth on the move

The largest global students technology competition. Last year 325,000 participated

Imagine Cup

Student to Business

Connecting more than 300,000 with new career skills

Aimed to increase youth mobility and professionalism

Cisco, Intel and Microsoft Education Alliance

help facilitate systematic education transformation, fostering innovation and enabling human capital development

Academic accreditation of certifications

The Shape the Future program

provide young people access to education and learning mobility
An Agenda for new skills and jobs

Skilling students for the labor force

• Need for 21st Century Skills:
  • Innovative Schools Program
  • Project based curriculum
  • Teacher communities

Re-skilling the labor force

• Need for IT Skills:
  • IT Academy
  • WW acknowledged certifications
  • Academic accreditation
Personalized learning – a global integration of new technology enables a new education system.
Learning Analytics – a Clear Line of Sight

- Students
- School/University
  - Curriculum use computers
- School/University Back Office
- Local Education Authority
- Ministry of Education
The Learners’ Digital World: integrated in the education system

Learner

Home

School
- Concept
- Coaching
- Infrastructure

Social environment
- Digital networks
- Local community

Media

Rich media
The Learners’ Digital World: integrated in the education system

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Media
A range of affordability scenarios are available to broaden access to educational computing.

**Choice of devices and user ratios**

- **1:Many**
  - MultiPoint™ Thin Client

- **Shared**
  - Computer Labs

**Choice of business model, such as:** Subsidized, Subscription, Financed
The Learners’ Digital World: integrated in the education system

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Learner

Media
Learning Management System (LMS) ELearningforce

One secured environment for all digital learning activities
Based on SharePoint

Structured Learning Path including SCORM Player
Shared Course Materials Repositories
Advanced Quiz Tool for Assessments including Certificates
Assignments with Anti Plagiarism checking
Assignments with ‘Single Action’ Grading and Workflow
Virtual Class Room using Live Meeting Office Communication Server
Web Parts for Announcements, Calendar, Assignments etc.
Grade Book recording and Reports of all Quiz Results, SCORM Learning Objects as well as overall time.
User Authentication via Active Directory or Forms Based Authentication.
The Learners’ Digital World: integrated in the education system

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Media

Live@edu
Office 365
The Learners’ Digital World: integrated in the education system

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Media
Assistive Technology – Accessibility examples for difficulties, impairments and dysfunctions …
Example – Sweden
Basics of personalized learning

Education matching the learner - not the learner matching education

Expand the curriculum and de learning domains

Developing intelligence, knowledge, competences and skills

Making choices – sooner but adjustable

The learner in the center of education
Example – Sweden
Kunskapsskolan – 1:1 project

- The learner gradually creates her or his way of learning and the roadmap
- Time related projects
- A weekly adaptable lesson scheme
Example - Denmark

Maglegårdsskolen

100 years old – strong in innovation
Example - Denmark

Complete re-design of the building and the learning concept

Achieving the national goals

Innovation in collaboration with the local government

Classes and teachers are grouped

Individual approach

Supported by government and companies

ICT is the main catalyst

**Learning**

Multiple ways of learning

Learn to learn

Challenging

Inclusion

Active learning

**Organization**

10 small sub-schools

Self-management for each sub-school

3 classes (70-75 students) with 5-7 teachers in their own physical environment

**The teacher**

Monitors the roadmap

Guides the learner

Team player

Shares with colleagues
Example - Denmark

10 sub-schools
750 students
Example - Denmark

Sub-schools, each in an own, modular space

48 m²
Example - Denmark

Sub-schools, each in an own, modular space

48 m²
Diverse centralized services: 
*Media Patrol – Portfolio – …*
Example – Netherlands
Dalton schools

Responsibility
Take - give

Accountability
Deliver - ask

Freedom in alignment
Independant collaboration

Confidence
offer - ask
Example – Netherlands Dalton schools

• A **clear structure**, combined with an ongoing **individual approach**.

• **Involving students** in daily activities, e.g. surveillance – kitchen service,

• The lesson structure consists of three phases: **instruction** – **individual and/or collaborative** work with diverse approach, e.g. summaries, searches/quests aligned to goals, work sheets, writing a paper… – **a short summary**.

• Students continuously plan their learning,

• **ICT is key**

• The school ensures a **gradual roadmap** helping students to grow to independent **self-regulated learning**.
• Information
and
• Communication
• Technology

… in education → (just) a tool !?
Learning ICT is similar to… learning a mother language

→ children cannot learn ICT just by themselves

<table>
<thead>
<tr>
<th>Disadvantages of “natural” learning</th>
<th>Mother language</th>
<th>ICT</th>
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<tbody>
<tr>
<td>Regional influences</td>
<td></td>
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<tr>
<td>Wrong usage of the language</td>
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<tr>
<td>Limited focus: Literature ?</td>
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<tr>
<td>Language science ?</td>
<td></td>
<td></td>
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<tr>
<td>Intuitive and partial use</td>
<td></td>
<td></td>
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<tr>
<td>Inefficient task solving</td>
<td></td>
<td></td>
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<tr>
<td>Limited focus: Games, Chat…</td>
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<td></td>
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<tr>
<td>Inappropriate behavior</td>
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| Advantages of dedicated courses   |                 |     |
| Correct spelling                  |                 |     |
| Better communication              |                 |     |
| Broader cultural insight          |                 |     |
| Correct use                       |                 |     |
| Most effective usage              |                 |     |
| Broader insight in all possibilities |               |     |
Programs & Information

Partners in Learning
http://www.microsoft.com/Education/PartnersinLearning.mspx

Innovative Teachers
http://www.microsoft.com/Education/InnovativeTeachers.mspx

Innovative Schools
http://www.microsoft.com/education/pil/ISc_home.aspx

Innovative Students – Microsoft Student
http://www.microsoft.com/education/pil/ISt_home.aspx

Learning Essentials
http://www.microsoft.com/Education/LearningEssentials.mspx

Live@edu
http://www.getliveatedu.com/

IT Academy
http://www.microsoft.com/education/msitacademy/default.mspx
Thank You