

# 21<sup>st</sup> Century Skills: The Role of CTE Leadership

Bob Regan

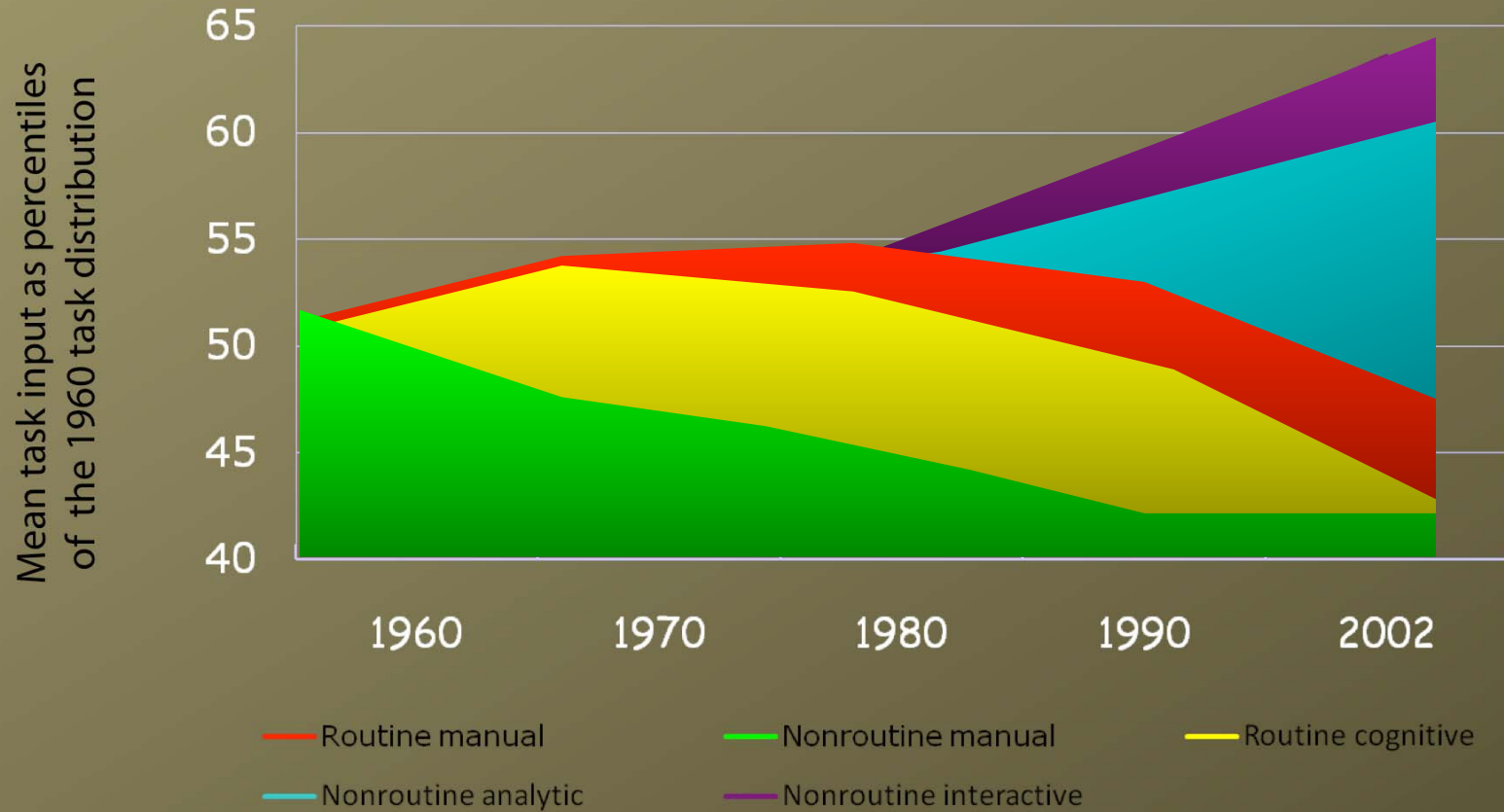
March 24, 2009



# Role of Education



# The Changing Nature of Work



# 21<sup>st</sup> Century Skills

What are the most important skills **today** when hiring College graduates?

Oral Communication	95%
Team Work Collaboration	94%
Written Communication	93%
Critical Thinking	92%
Writing	90%
Language	88%
Reading Comprehension	87%
Leadership	82%
IT Application	81%
Creativity	81%
Mathematics	64%
Science	33%

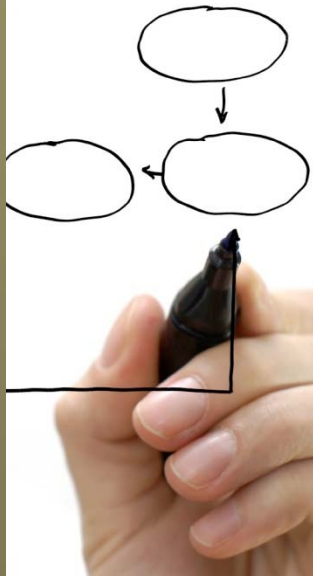
What skills and content areas will be **growing in importance** in the next five years?

Critical Thinking	78%
IT Application	77%
Team Work/Collaboration	74%
Creativity/innovation	74%
Diversity	67%
Leadership	67%
Oral Communication	65%
Mathematics	49%
Writing	45%
Reading Comprehension	41%
Science	39%
Language	33%

# New Workforce Skills



**Technology  
Literacy**



**Creativity**



**Effective  
Communication**



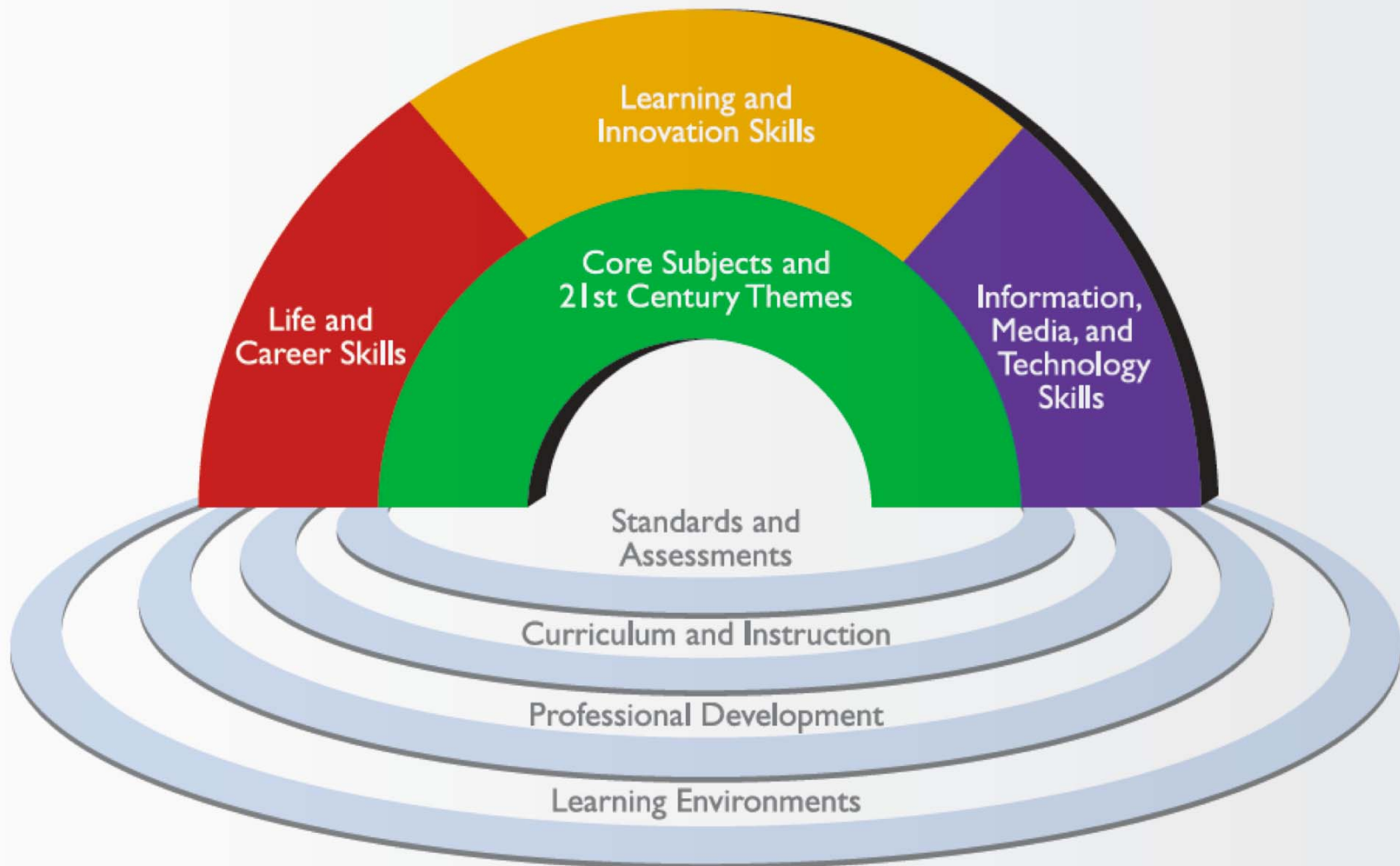
**Critical  
Thinking**



**Collaboration**

# 21<sup>st</sup> Century Skills

## 21st Century Student Outcomes and Support Systems



# Competition & Globalization



# Communication Age



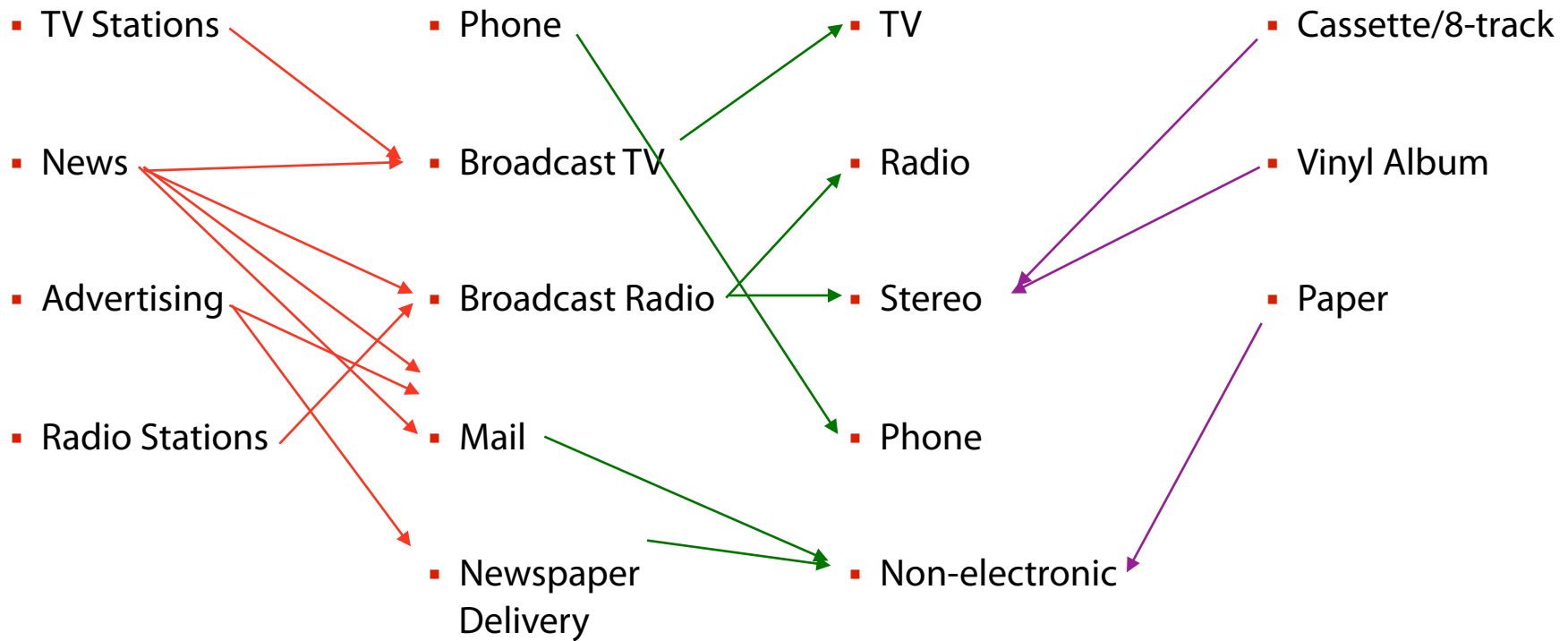
# Home Media Ecology - 1975

Product

Route to Home

Display

Local Storage



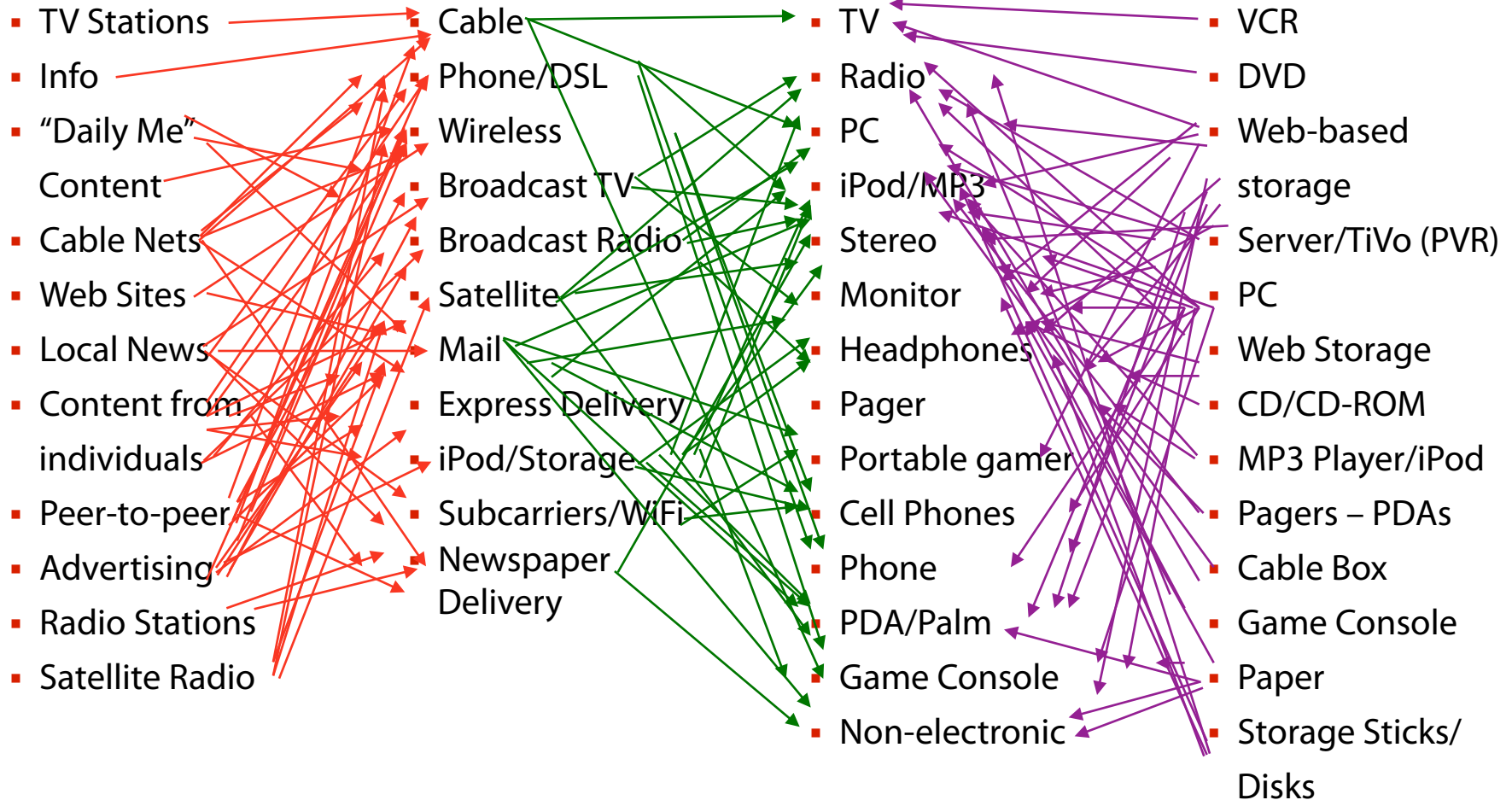
# Home Media Ecology - Today

## Product

## Route to Home

## Display

## Local Storage



# Digital Natives



**Live on the Web**



**Individualized**



**Devices**

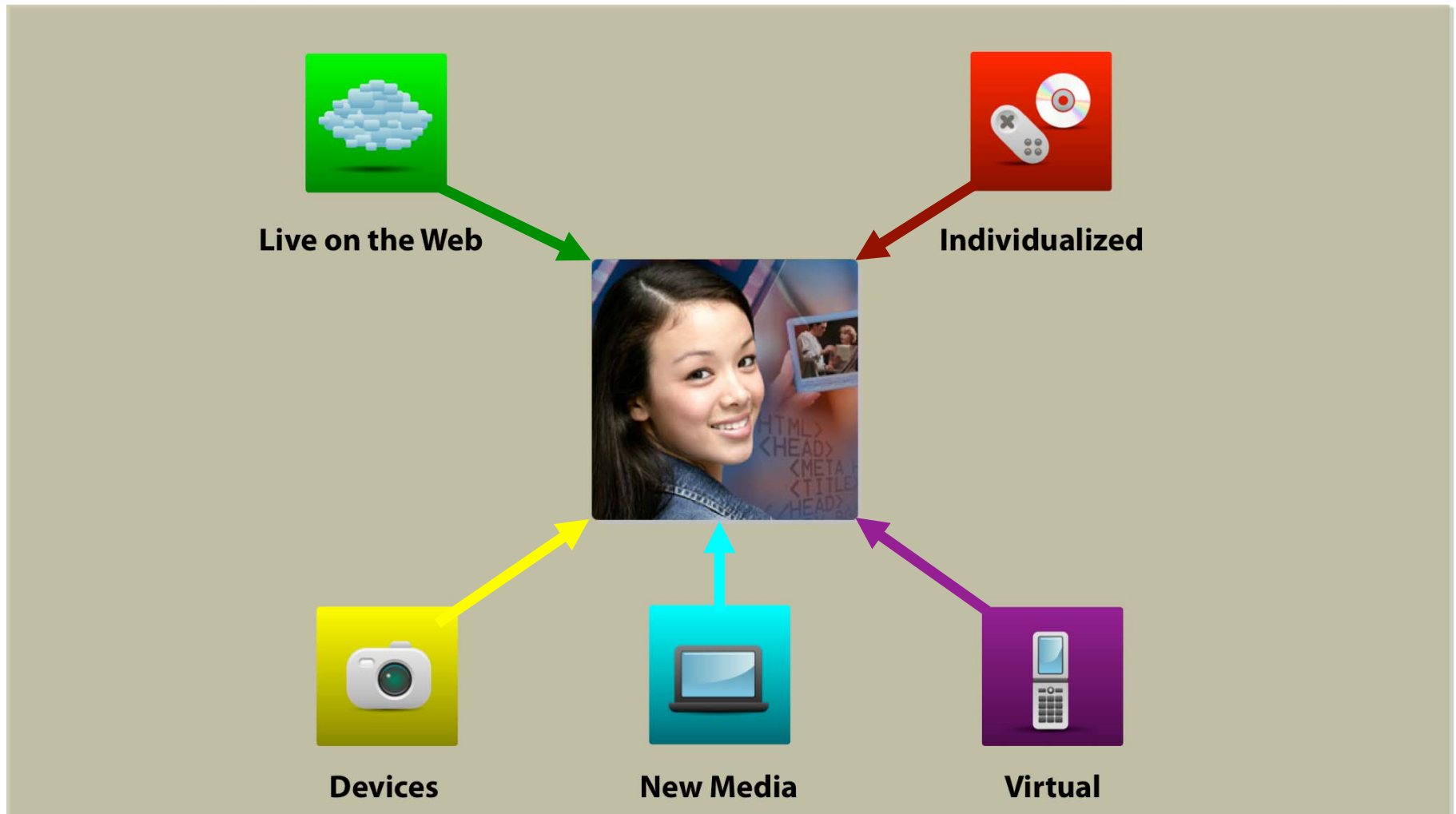


**New Media**



**Virtual**

# Engaging Today's Digital Natives



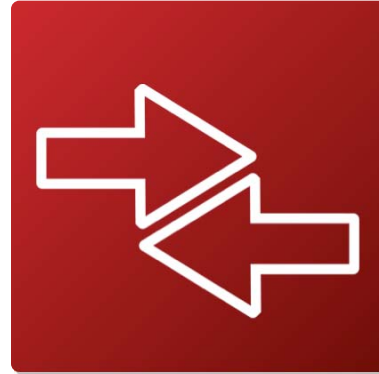
# How Will Education Evolve



**Personalized**



**Distributed**

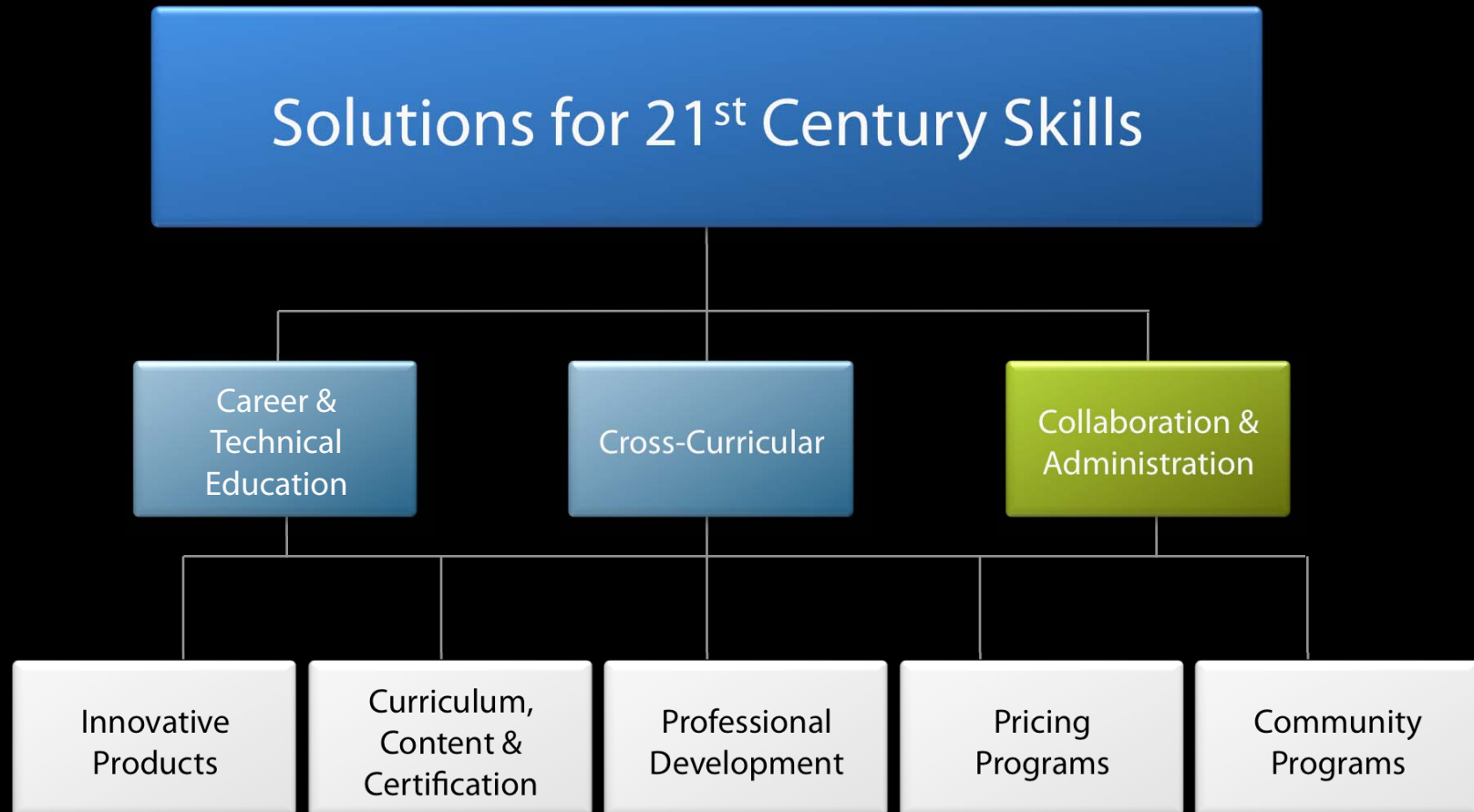


**Collaborative**

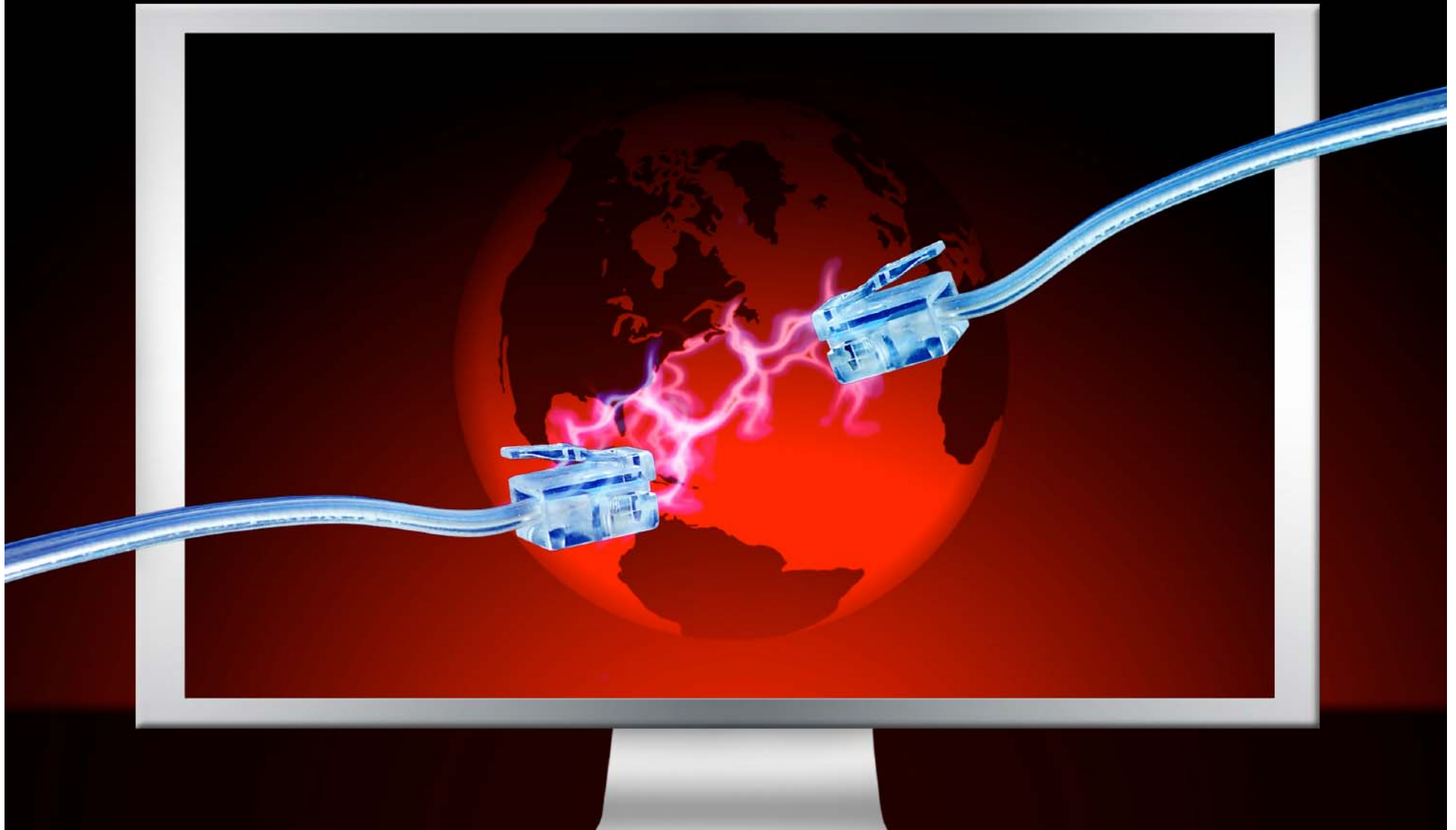


**Creative**

# Adobe Solutions for 21<sup>st</sup> Century Skills



# The Change is Already Happening



# Case Study: F.J. Reitz High School



**Creative**



- Provides students with high-level, interactive learning tools
- Teaches teamwork and job-like learning approach
- Supplies a bridge across history with engaging technology
- Enriches community involvement

# Adobe Innovation Awards



**Creative**



- Winner of the 2008 Adobe School Innovation Award Program – using PSE/PRE Elements projects
- High school students collaborate on a science project involving creative problem solving skills
- Engaging technology supports language arts, media & visual literacy and communication skills through project-based learning

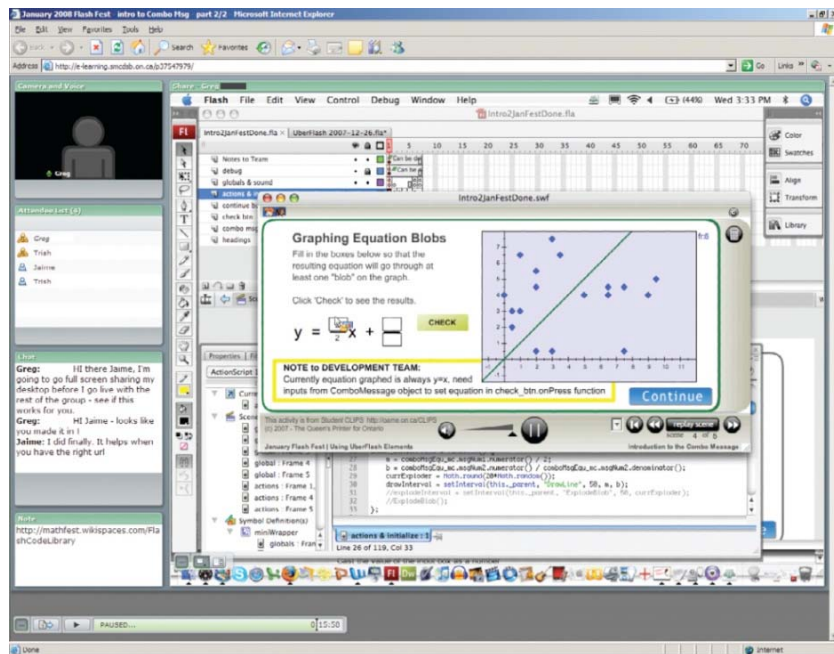
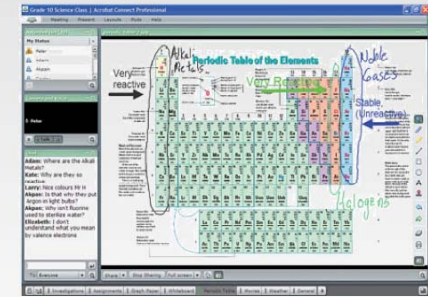
# Case Study: Ontario Ministry of Education



Distributed



ADOBE® ACROBAT® CONNECT™

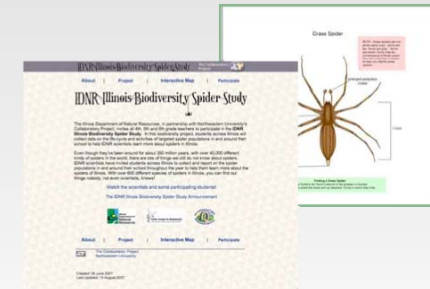
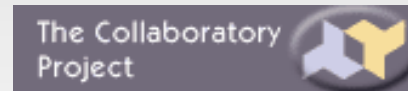


- The Ontario Ministry of Education serves over two million students in more than 5,000 elementary and secondary schools, including more than 115,000 teachers
- Adobe solution helps carry out the Ministry's three-pronged mission: support high levels of student achievement, reduce gaps in student achievement, and build strong public confidence in the publicly funded education system

# Case Study: Collaboratory Project in Evanston, Illinois



**Personalized**



- The Collaboratory is a web-based collaborative environment teachers use to develop project-based activities that are linked to Illinois Learning Standards.
- Students are engaged through visually stimulating learning material
- Offering students the opportunity to create and share their work in engaging real-world projects



**Adobe**