

# Migration of CAI Content for Online Delivery: 1963- 2003

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Year	Project	Innovation	Audience	Sponsor	Funding	Delivery System
1963	CERL Plato System <sup>1</sup>	Mainframe CAI System	Adults & K-12	University of Illinois	NSF	Mainframe via Serial telecom - terminals
1967	CCC <sup>2</sup>	Computer Curriculum Corporation	K-12	IBM	Private Investors	Mainframe via Serial telecom - terminals
1973	<i>ARPANet</i>	<i>Wide Area Connectivity</i>	<i>DARPA</i>	<i>DOD</i>	<i>DOD</i>	<i>High Speed Wide Area Network</i>
1974	<i>The Internet</i>	<i>Engineering Standards Published</i>	<i>DARPA</i>	<i>DARPA</i>	<i>DOD/NSF</i>	<i>Network Connectivity</i>
1976	CDC Markets PLATO Courseware	CDC gets Ownership PLATO Courseware	Adults & K-12	CDC	CDC w.U of IL	Mainframe via Serial telecom - terminal
1977	<i>Apple II Personal Computer</i>	<i>Apple Introduces first personal computer</i>	<i>Homes and schools</i>	<i>Apple Computer</i>	<i>Private Investment</i>	<i>None (floppy storage)</i>
1981	<i>IBM PC (Model 5150)</i>	<i>Industrial Microcomputer</i>	<i>Business &amp; University</i>	<i>IBM</i>	<i>IBM</i>	<i>None (floppy storage)</i>
1984	CDC PLATO/Wicat Systems Created	CDC PLATO joint venture with Wicat Systems, Inc.	K-12	Control Data Corporation	CDC/ - Wicat	Mainframe via modem/or 56K line.
1984	Dial-Up PLATO Interface	PC Access to PLATO Courseware	Adults	CERL	University of Illinois	Mainframe via modem/telecom - PC
1985	Marketing U of I CERL Courseware	University Communications Inc. (UCI)	Adults & K-12	CERL	University of Illinois; Competition: CDC	Telephone dial-up, satellite and dedicated 56K delivery
1986	NOVANet	CERL Courseware Migrated to LAN Servers	Adults and K-12	CERL	University of Illinois; Competition: CDC	Floppy disks, Telephone dial-up, satellite, dedicated 56K & ILS/LAN delivery
1989	<i>The World Wide Web</i>	<i>Global, Wide Area Data Network</i>	<i>Initially-Scientists &amp; Engineers</i>	<i>European Org. for Nuclear Research</i>	<i>CERN (Switzerland)</i>	<i>Global Shared Data Access via expanding TCP/IP Networks</i>
1989	CDC PLATO Acquisition <sup>3</sup>	TRO buys entire CDC PLATO courseware catalogue. <sup>4</sup>	Adults and K-12	The Roach Org., Inc.	Private Investors	Mainframe to terminal or PC; begin migration to local storage (floppy)
1993	<i>MOSAIC</i> <sup>5</sup>	<i>Free Web Browser w. Graphics (easy to use)</i>	<i>Adults &amp; K-12 (The World)</i>	<i>NCSA at University of Illinois</i>	<i>NSF</i>	<i>HPPT Servers over TCP/IP Internet</i>
1993	NOVANet	All U of I Courseware Systems Consolidated	Adults & K-12	U of I Board of Trustees	U of I System	Floppy disks, Telephone dial-up, satellite, dedicated 56K & ILS/LAN delivery
1993	CERL at UIUC Closed	Supported Terminated		U of I Board of Trustees	U of I System	All employee contracts end by July, 1994
1994	National Center for Educational Statistics <sup>6</sup> reports that only 35% of Public Schools have internet access.					
1994	<i>Netscape</i>	<i>Commercial, Browser &amp; Servers Released Successfully</i>	<i>Adults &amp; K-12 (The World)</i>	<i>Netscape Communications Inc.</i>	<i>Private Investors</i>	<i>HPPT Servers over TCP/IP Internet</i>
1995	National Center for Educational Statistics reports 50% of Public Schools have internet access.					
1996	National Center for Educational Statistics <sup>7</sup> reports 65% of Public Schools have internet access. ( <i>E-Rate program supporting internet access in public schools starts.</i> )					

<sup>1</sup> University of Illinois Archives/Graduate College/Computer-based Education Research Laboratory (<http://web.library.uiuc.edu/ahx/uaccard/adminhist/showsg.asp?rg=7&sg=13>)

<sup>2</sup> Hayes (1999)

<sup>3</sup> PLATO Learning Inc.; *About Us* ([http://www.plato.com/aboutus/company\\_history.asp](http://www.plato.com/aboutus/company_history.asp))

<sup>4</sup> Note: Wicat eventually sold to Jostens Learning Corporation. (Noble, 1996)

<sup>5</sup> Borland, Festa, Becker & Yamamota (2003)

<sup>6</sup> National Center for Educational Statistics (2005)

<sup>7</sup> National Center for Educational Statistics (2006)

1997	NOVANet Learning Inc.	For-profit company created to market NOVANet	Adults & K-12	U of I Board of Trustees	U of I System & Private Investors	Floppy disks, Telephone dial-up, satellite, dedicated 56K & ILS/LAN delivery (Internet content migration starts)
1999	NCS NOVANet <sup>8</sup>	NCS Inc. acquires NOVANet Learning Inc.	Adults & K-12	National Computer Systems Inc.	National Computer Systems Inc.	Telephone dial-up, dedicated 56K, ILS & Internet access .(Less use floppy disks.)
2000	National Center for Educational Statistics reports 98% of Public Schools have internet access, but only 77% of classrooms.					
2000	CCC – NOVANet Created <sup>9</sup>	Pearson Acquires both NCS NOVANet and CCC	Adults & K-12	NCS / Pearson	NCS / Pearson; competition TRO	Telephone dial-up, dedicated 56K, ILS, & Internet access.(Decreasing floppy storage use.)
2000	PLATO Learning Inc. Expansion	TRO acquires CyberEd science courseware; changes name..	Adults & K-12	The Roach Organization (TRO)	Private Investors; Pearson	Telephone dial-up, dedicated 56K, ILS & increasing Internet access. (Floppy storage rare but still supported.)
2001	National Center for Educational Statistics reports nearly 100% of Public Schools have internet access and 87% of classrooms.					
2001	Expansion: PLATO Learning Inc.	PLATO Learning Inc. acquired WASACH & TeachMaster	Add Adult Remedial and K-12 standards-based content.	The Roach Organization (TRO)	Private Investors	ILS, Internet access; less other tecom, w. occasional use floppies
2001	NCS Learn: Marketing	Rename: NCS NOVANet	Adults & K-12	Pearson Learning	Pearson Learning; competition TRO	Internet access; ILS, less tecom, & little use floppies
<b>2001</b>	<b>No Child Left Behind Education Act<sup>10</sup></b>	<b>Improving Educational Services for K-12</b>	<b>K-12</b>	<b>Congress</b>	<b>Federal Funds</b>	<b>All delivery systems.</b>
2002	National Center for Educational Statistics reports 92% of classrooms in American public schools have internet access.					
2002	Expansion: Plato Learning Inc.	Acquires NetSchools Corporation	Adults & K-12	The Roach Organization (TRO)	Private Investors; Competition Pearson	Internet
2002	NCS: NOVANet Marketing	Rename to: Pearson Education Technology	Adults & K-12	Pearson	Private Investors; Competition TRO	Internet
2002	PLATO Learning Inc. Expansion	Acquires Learning Elements (FOCUS Reading & Language Program)	Add Materials for K-3 Readers	The Roach Organization (TRO)	Private Investors; Competition Pearson	Internet
2003	National Center for Educational Statistics reports 93% of classrooms in American public schools have internet access.					
2003	PLATO Learning Inc. Expansion	Merger with Lightspan Inc. & Acquires New Media Holdings	Elementary / Post Secondary Curr. & Sci. Sims	The Roach Organization (TRO)	Private Investors	Internet

Note: New product development, acquisitions and mergers continue for both Pearson Digital Learning and PLATO Learning Inc.. They remain the two largest commercial K-12 online content providers serving eSchools today.

<sup>8</sup> EMC ([http://software.emc.com/about\\_us/customer/profiles/ncslearn.htm](http://software.emc.com/about_us/customer/profiles/ncslearn.htm) )

<sup>9</sup> Pearson Digital Learning: *Press Releases* (<http://www.pearsondigital.com/press/>) & *In the News* (<http://www.pearsondigital.com/news/>)

<sup>10</sup> U.S. Department of Education PL 107-110 (<http://www.ed.gov/policy/elsec/leg/esea02/index.html>)