



State of New Hampshire

Educational Technology Plan

October 2001
Revised Goals and Objectives

New Hampshire Department of Education
Office of Educational Technology
Within the Division of Program Support
101 Pleasant Street, Concord NH 03301

Visit the Tech Council on the web at: www.nheon.org/oet

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Introduction

In October 2001, the NH Statewide Educational Technology Council adopted the following set of goals and objectives for the state's educational technology plan. These five goals are aligned with the national plan for educational technology, *e-Learning: Putting a World Class Education at the Fingertips of All Children*.

The Council felt strongly that this new state plan should be clear and brief, in order to make it easier for all interested groups to work with as a "living document." Thus, the descriptive objectives and benchmarks for each of the five goals are deliberately kept brief. Readers may wish to visit the following web sites for related information:

National Technology Plan at: www.ed.gov/Technology/elearning
NH Technology Plan Web Page: www.nheon.org/oet

Five Goals

- Goal 1: Access to Technology
 - District Technology Planning
 - Technology Tools
 - Connectivity
- Goal 2: Teachers Using Technology Effectively
 - Professional Development
 - Teacher Standards
- Goal 3: Students Skills in Technology and Information Literacy
 - Student Standards
 - Instructional Opportunities
- Goal 4: Research and Evaluation
 - Dissemination of Research and Evaluation Information
- Goal 5: Digital Content and Networked Applications
 - Virtual Schools
 - Digital Resources

Each of these five goals is briefly described in the pages that follow.

Goal 1: All students and teachers will have access to information technology in classrooms, schools, communities and homes.

Note: This goal aligns with the previous NH plan (1998) objectives related to planning (1.1), hardware (1.2), and access (1.3).

District Technology Planning

- Each NH public school district will have an updated three-year district technology plan.
 - Plans will be approved by the NH Department of Education.
 - Plans will reflect integration with DEIP/LEIP and Master Professional Development Plans.
 - Plans will be referenced to components of the NHDOE Technology Planning Guide.
 - NHDOE will encourage and support districts in their efforts to update Local Tech Plans annually.
 - Each school will identify at least one contact person as recipient of regular electronic communications (ETNews) from the Office of Educational Technology.
- NHDOE will work with a team of technology coordinators to ensure that all district technology plans are reviewed within 45 days of receipt.
 - Plans will be reviewed by both NHDOE staff and technology coordinators to ensure local school district perspective.
 - Plan reviewers will meet quarterly to review newly submitted tech plans.
- NHDOE will update the Technology Planning Guide periodically to reflect recommendations for technology planning.
 - NHDOE will include in the guide information and recommendations on hardware, software, and integration support ratios.
 - NHDOE will develop an “online tech tools reference area” categorized by types of tech tools (wireless laptops, digital cameras, PDAs, etc.) with descriptions of effective educational uses and research citations.
- NHDOE will explore the feasibility of an online technology planning system that combines the online Technology Survey with the district Technology Plan. (Note: This item is a high priority as a web document.)
 - NHDOE will ensure that district data within this online survey/planning system is updatable on a yearly basis.

Technology Tools

- Each NH public school will have a ratio of 5:1 students per modern multimedia computers.
- Each NH public school teacher will have access to a modern multimedia computer and presentation system
- Each NH public school will identify a structure for providing technology support equivalent to one staff person for no more than 100 computers.
- Each NH public school district will provide a wide variety of technology tools (both hardware and software) available for use by staff, students and community.

Connectivity

- Each NH public school will have high bandwidth access to the Internet via broadband, wired, or wireless.
- Each NH public school classroom will have high bandwidth access to the Internet and school district WAN.
- Each NH public school district will offer community access to technology resources.
- NHDOE will collaborate with local and state policy makers to promote the development of a statewide network.

Goal 2: All teachers will use technology effectively to help students achieve high academic standards.

Note: This goal aligns with the previous NH plan (1998) objectives related to teacher professional development and support (1.5).

Professional Development

- Each NH public school will administer the Level of Technology Integration (LoTI) Teacher Self Assessment Survey each year for all teaching staff.
 - NHDOE will assist districts in analyzing the results of LoTI to enable them to offer appropriate professional development opportunities.
 - Local districts will be encouraged to offer professional development opportunities by providing reasonable access, support and incentives to their staff.
- Each NH public school will have at least one teacher trainer familiar with resources available through the NH Educators Online (NHEON) web portal.
- Each NH public school will be provided opportunities to access professional development programs funding through federal technology programs.
- Each NH public school will provide a structure and support for technology integration into the curriculum.
- Each NH school district will provide technology professional development opportunities for administrators.
- Mentor teachers at PT3 Project school partner sites will engage in project activities and assist in the creation of online resources available to all NH educators through the NHEON web portal.
- NHDOE will coordinate training to school districts in the use of the resources provided through the NHEON web portal.
- NHDOE will partner with statewide providers to provide frequent high quality professional development opportunities to NH teachers.

Teacher Standards

- NHDOE will ensure that the NH teacher certification standards and the process for teacher preparation program approval incorporates National Educational Technology Standards for Teachers (NETS-T) and Information Power Standards.
- NHDOE will ensure that teacher standards information is made available online via ETNews and the NHEON web portal.
- NHDOE will ensure that technology standards continue to be addressed within Local School District Master Professional Development Plans.

Goal 3: All students will have technology & information literacy skills.

Note: This goal aligns with the previous NH plan (1998) objective related to effective and engaging software and online resources (1.4).

Student Standards

- Each NH public school district will identify and implement student technology and information literacy competencies including an assessment component.
- NHDOE will ensure that NH curriculum frameworks incorporate technology and information literacy competencies.
- NHDOE will explore the feasibility of updating the NH student technology literacy standards within the NH School Minimum Standards.
- NHDOE will ensure that NH student competencies information is made available online.
- NHDOE will identify models of technology curricula and disseminate via ETNews and the NHEON web portal.

Instructional Opportunities

- NHDOE will explore the feasibility of creating a state secondary school focused on math, science, and technology.
- NHDOE will assist schools with the development of policy and practice in the use of online courses, tutoring, and online alternative programs.
- NHDOE will collaborate with statewide providers to develop an online learning policy and practice resource guide, made available through the NHEON web portal and via ETNews.

Goal 4: Research and evaluation will improve the next generation of technology applications for teaching and learning.

This goal aligns with the previous NH plan (1998) objectives related to teacher professional development (1.5) and to effective, engaging software and online resources (1.4).

Dissemination of Research and Evaluation Information

- NHDOE will ensure dissemination to NH educators of research findings from research studies conducted as part of the PT3 project.
- NHDOE will ensure dissemination of key research and evaluation information through a variety of means, including ETNews, the NHEON web portal, conferences, and periodic meetings with educators and organizations.
- NHDOE will explore the feasibility and usefulness of collaboration with NH higher education institutions to develop a statewide technology research agenda within each graduate education program
- NHDOE will promote action research, when possible, using available funding streams.

Goal 5: Digital content and networked applications will transform teaching and learning.

This goal aligns with the previous NH plan (1998) objectives related to teacher professional development (1.5) and to effective, engaging software and online resources (1.4).

Virtual Schools

- NHDOE will explore the feasibility of developing online high school(s).

Digital Resources

- NHDOE will collaborate with other statewide providers and educational organizations to ensure a statewide effort to digitize rich education materials and make available through NHEON web site.
 - NHDOE will explore the possibility of creating a virtual museum with primary sources available through the NH State Library, NH Historical Society, and local historical sources.
- NHDOE will work with Technology Council members to explore the feasibility of aggregating demand for digital content and networked applications.
- NHDOE will assist schools in the development of policy and practice in the use of student information systems (both local and web based) to provide access to grades, etc.
- NHDOE will collaborate with statewide providers to develop an educational technology policies and practice resource guide and will disseminate the guide through ETNews and the NHEON web portal.

FUNDING STRATEGIES

This section provides possible sources for funding the goals of this state technology plan.

District funding -- Many districts already provide a specific line item within their budgets for technology expenditures. Other districts only budget periodically for technology specific expenses.

Federal funding – As in previous years, federal technology funds, as well as other funds, administered by the NHDOE can be targeted to the goals of this plan.

Grant resources – Grant center web sites can be used to identify various funding resources. Particular focus might be placed on acquiring funds for special applications and delivery modes, such as distance learning, satellite, wireless, and PDAs in the classroom.

CITS Program – The Governor’s Computers in the Schools (CITS) program can continue to assist in meeting the hardware goals of this plan by providing low cost equipment to schools in need.

E-Rate -- E-Rate funding can continue to assist schools in meeting their connectivity needs.

Coordination between State Agencies and Providers – The state can work with Internet providers to ensure that affordable high bandwidth is accessible throughout the state.