

OVERVIEW

WHOLE

VILLAGE

PROJECT

Yukon-Koyukuk School District- Alyeska Worldwide

The Whole Village Project

We are here at the encouragement of Bill Allen, USDA, and he has requested that we provide the attached briefing for Senator Ted Stevens.

The Whole Village Project

- 1 Provide services to rural Alaskan students
- 2 Provide portability to a child's education
- 3 Provide K-12 academic support, encouragement and guidance by Highly Qualified Teachers
- 4 Meet or exceed No Child Left Behind Legislation
- 5 Provide an alternative to Regional Learning Centers
- 6 Provide every student an Individualized Learning Plan
- 7 Increase social entrepreneurial and sustainable development skill-sets
- 8 Provide economic growth and community empowerment

Overview

"Planting seeds of entrepreneurship must begin early enough in a child's primary education to establish entrepreneurship as a lifelong choice."

Strengthening America's Communities Initiative

The Whole Village Project is founded on the belief that there is a reciprocal relationship between successful school and successful community. The mission of The Whole Village Project is to ensure that Alaskan children will be given opportunities, experiences and academic preparation needed for employment upon graduation. Creating a sustainable entrepreneurial culture in Alaskan native villages is essential. Our curriculum focuses on economics, entrepreneurship and commerce. Parents, students, community and industry leaders will play an integral part in helping students to successfully compete in the global entrepreneurial marketplace.

The quality of life in the villages of Alaska is tied to the ability to maintain a viable employment base. As younger rural residents continue to leave their communities and the state, the quality of life for those who remain, both young and old, is reduced. Alaska has one of the highest outmigration rates in the nation. A disproportionately large percentage of Alaska's young adults leave Alaska after graduating from high school or after completing some postsecondary education in the state. There is wide concern that the percentage of Alaskans who continue their education beyond high school is among the lowest in the nation as well.

The Whole Village Project offers students and parents an alternative to traditional public schools by providing home-based and school-based instruction that integrates e-commerce and entrepreneurial components. The Whole Village Project provides students with the opportunity to participate in a program that allows hands-on entrepreneurial learning within their school and/or community. Using an enhanced Junior Achievement model, students in grades K-12 have the opportunity to develop their own business plan, learn economic concepts, and develop merchandising skills that are directly applied to operating their own business. By beginning early in a child's life, our school model seeks to instill the value of self-reliance in every student.

Using proven educational methods, The Whole Village Project is designed to provide an environment that will enhance student learning and improve pupil achievement regardless of physical location. The project will help schools meet the NCLB requirements as well as serve as a plausible alternative to boarding schools that are currently under consideration of the state for youth in rural Alaska. It is an educational model that focuses on data, measuring change, and accountability. And, it offers a two-fold approach: a distance education program with individualized learning programs for every home schooled student and a program that offers services to rural Alaskan students attending traditional schools.

To meet the needs of rural Alaskan students, we offer portability combined with e-commerce and entrepreneurial training. The Whole Village Project is able to advance student performance by providing each child with a program of instruction tailored to the learning needs of that child. An educational training coach along with a certified

Highly Qualified Teacher will work with students in and out of the classroom using an Alaskan standards-based, online/offline curriculum supported by a host of web-based technology tools and resources. Using integrated methods of Peak Learning Model and Assets-Building, the project expands opportunities for experienced teachers by redefining daily responsibilities while increasing their ability to directly influence individual students. Technology-based solutions enable the development, management, delivery, and measurement of individual learning.

Parents and teachers work in partnership to develop a customized learning plan based on Alaska standards and is responsive to each student's needs and strengths. The learning plan includes goals for each subject area, identifies materials to be used, and how progress will be assessed. As teachers work with families to develop the Individual Learning Plans for the students, care is taken to ensure that appropriate grade level and course material are chosen to allow for success.

Based on technology centered solutions and customized student curriculum, The Whole Village Project will ensure Alaskan Native youth achieve success. We will integrate K12 online instruction and state standards to include entrepreneurship, ecommerce, and community internet empowerment strategies. An essential element of this program will be based on creating partnerships with the community through their school officials, students, parents and business and tribal leaders.

CONSORTIUM FOR DIGITAL LEARNING
Preparing Alaska's Students for Success in the Global Economy

OUR WORLD HAS CHANGED

- The world has become flat. Rapid global changes have created a tipping point.
- Computers and the Internet have changed the way we work, communicate and collaborate.
- Commerce is web-based, economies are global, technological proficiency is essential.
- Jobs are migrating out of the U.S. to India, China, Russia, and other countries.
- Today's students will be competing for jobs with well-educated, technically proficient, highly motivated people from around the world.
- Younger generations are facing a competitive work environment that we cannot fully explain to them.
- We need to position ourselves to capitalize on known global changes so our children will have every advantage we can give them to succeed in the new "flat world" economy they will soon inherit.

OUR EDUCATION SYSTEM MUST ADAPT

- Education needs to be approached differently than it has been in the past. Systemic changes are needed.
- If we want students to enjoy fulfilling, well-paying jobs and a standard of living that we have come to expect, we must prepare them to compete.
- The quality of the workforce produced by public schools will determine how competitive future generations will be in the emerging global marketplace, as well as the overall health of the U.S. economy.
- Young adults entering nearly any field will be required to possess technology skills.
- Digital learning is currency of the future. Must insure our kids have sufficient currency to negotiate their way.
- A concerted effort is needed to help digital learning environments grow systemically in Alaska's schools.

DIGITAL LEARNING ENVIRONMENTS IN SCHOOLS

- The creation of 1 to 1 laptop computer learning environments and 24/7 wireless broadband Internet access incorporated across the curriculum in Alaska schools will help every student unleash their potential and raise their achievement levels.
- Far more than simply equipping students with laptop computers, this different means of teaching and learning will equip our young people with technology proficiencies to help them compete more successfully.
- This investment will soon produce a young, technology-immersed Alaska workforce that will be in a unique position to take advantage of unrealized economic development opportunities in all regions of our state.

DIGITAL LEARNING - NATIONAL RESULTS

- Significant academic gains have been realized in U.S. schools with digital learning environments: more time on task, higher levels of comprehension, greater pride in their work, absentee, dropout rates decreased, more students continuing on to college.

DIGITAL LEARNING - ALASKA RESULTS

- Since rolling out Alaska's first 1 to 1 laptop initiative in Denali three years ago, schools in the district show more effective engagement of students in the learning process, steady improvement in AYP scores, K-12 students performing at levels consistently above statewide averages in math, reading and writing.

CREATION OF A DIGITAL LEARNING CONSORTIUM FOR ALASKA

- AASB is proposing to create a Consortium for Digital Learning, through which state, federal governments and Alaska school districts can provide the opportunity for Alaskan students to:
 - Enjoy an enhanced quality of education through access to digital learning environments.
 - Raise their academic achievement levels
 - Unleash their tremendous potential
 - Arrive in the workplace well-versed in relevant employment skills,
 - Successfully compete in a global economy
- This initiative addresses workforce & economic development, standards of living, and national security.
- We face short timelines. As a show of good faith and commitment to this initiative, AASB is stepping up to the plate to form the Consortium for Digital Learning prior to receiving any funding.
- We are a learning consortium and a success initiative, dedicated to teaching people what is possible and helping them make it happen.

ROLE OF THE DIGITAL LEARNING CONSORTIUM

- Based on a shared commitment to excellence in education, AASB has chosen to work collaboratively with Apple, to take full advantage of their experience in implementing large-scale digital learning environments.
- Evaluate district proposals using criteria: Leadership, Learning, Infrastructure and Community readiness.
- Assign a Low-Medium-High readiness level to each applicant district. Cost differences at each readiness level determine the amount of "per classroom" funding available.
- Based on evaluation of readiness levels make site selections.
- Assist participating sites with the costs of implementing digital learning environments in their schools:
 - Leverage funding from federal, state and local sources.
 - Act as purchasing agent to broker technology-related services and equipment to participating sites.

APPLE'S HISTORY OF COMMITMENT TO EDUCATION

- When tech bubble burst, Apple invested in education. When market recovered, Apple was well positioned as a strong, innovative industry leader.
- Has assisted in the deployment of over 700 digital learning initiatives in schools and districts nationwide.
- Over 25 years experience developing learning and teaching solutions
- Offers a cost effective, holistic approach to digital learning.

PC AND APPLE COMPUTERS – BASIC DIFFERENCES

- **PC = Open Market System:** Company provides computer, operating system.
- Software and peripherals purchased separately in the open market not integrated, often not compatible with each other.
- **Results:** non-integrated components require more configuration, more tech support time (\$), a less user-friendly experience. Good for people who already understand technology.
- **APPLE = Holistic Integrated System:** Company provides computer, operating system, integrated software package, and peripherals (iPod, iSight videoconference camera, Airport wireless networking, etc).
- Integrated system components designed and built to be compatible, reliable and intuitive.
- **Results:** greater "plug and play" component compatibility and system reliability, less configuration, less tech support time (\$), a more user-friendly experience. Good for technology learners.
- Diverse skills learned on Apple computers are transferable to the PC environment and workplace.

BENEFITS OF APPLE'S HOLISTIC DIGITAL LEARNING SYSTEM

- Holistic, integrated system components include hardware, software, peripherals, tech support, professional development, and digital curriculum.
- Functional, reliable system users can have confidence in from inception to rollout, and beyond.
- Reliability = less down time, fewer frustrating tech support issues, more student/teacher time on class work.
- Intuitive, ease of use is good for all digital technology learners: students & teachers – natives & immigrants.
- Holistic implementation of digital school makes managing change less complex, more efficient.
- Evaluation of success based on established district readiness criteria used for site selection.

BENEFITS OF WORKING WITH AN EXPERIENCED INDUSTRY LEADER

- Will help school districts that are selected to capitalize on their assets/strengths, identify obstacles, mitigate weaknesses, and create success.
- Commitment to four key areas of district readiness: Leadership, Learning, Infrastructure, Community.
- Wisdom and experience in successfully managing change.

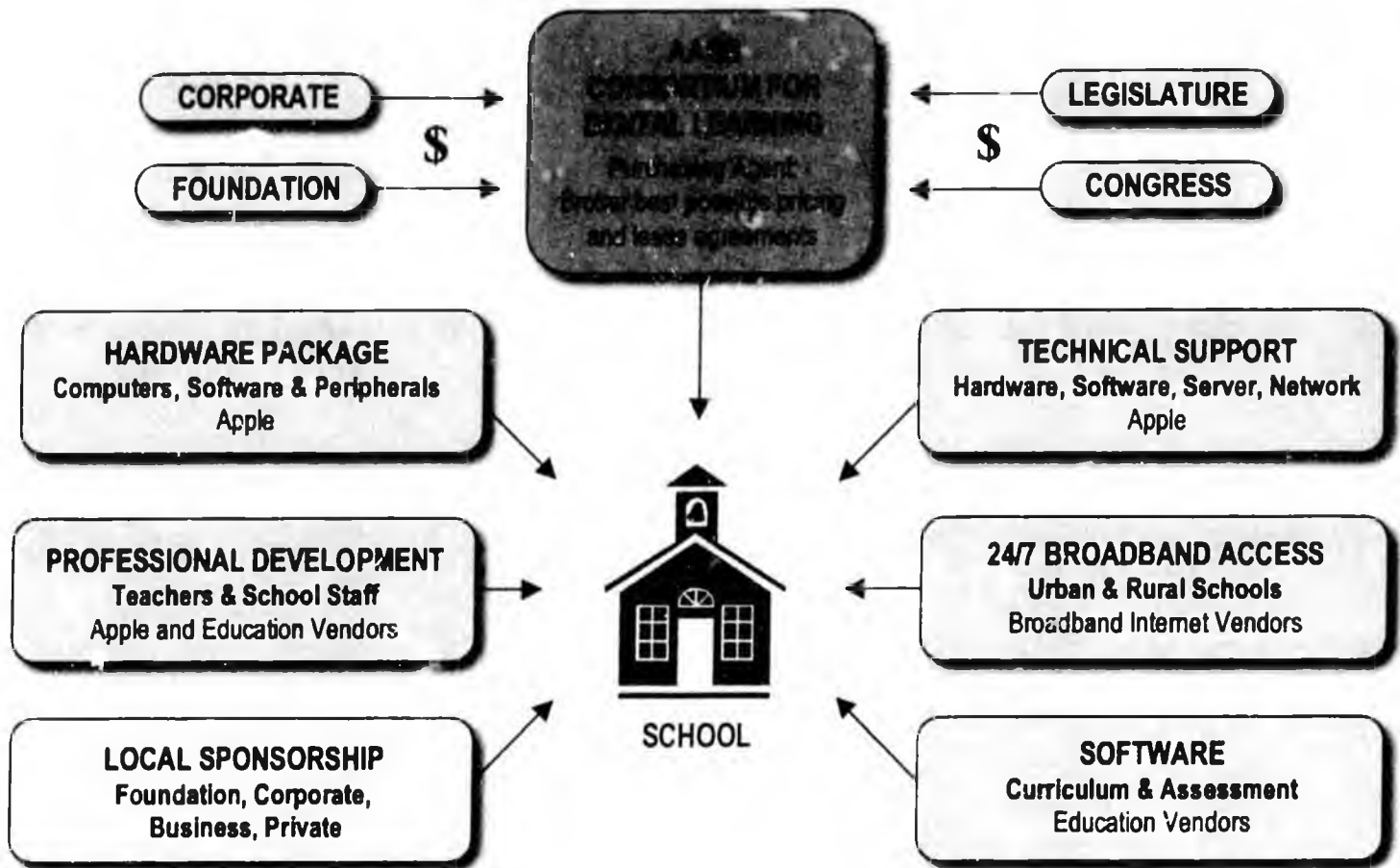
TIME FRAME

- Funding Disbursement: state fiscal year starts July 1, federal fiscal year starts October 1
- 2006-07 Site Implementation:
 - Summer teacher professional development, with 2-3 pilot classrooms running by fall '06.
 - Fall teacher professional development, with additional pilot classrooms running in Jan '07.
- For efficiency in future years, funding and implementation timelines need to match more closely.

MORE INFORMATION

View the podcast of Carl Rose's 3/21/06 presentation to the House Special Committee on Education about the Consortium for Digital Learning: <http://alaskaice.org/aasb-podcast/>

CONSORTIUM FOR DIGITAL LEARNING AN OVERVIEW



The Association of Alaska School Board's Consortium for Digital Learning

AASB is proposing an enhanced educational delivery system that will prepare Alaska's youth for the digital world. Using an inclusive approach, districts and schools will be supported in:

- Determining readiness levels
- Engaging their community
- Securing hardware, software, and peripherals
- Acquiring necessary technical support for a fully functional system
- Training staff
- Managing change

Many school districts have made significant strides in uses of technology. Rarely, however, has technology been instituted in a systematic fashion that will allow our youth to compete successfully in our increasing global economy. Through the digital learning consortium, AASB is proposing a holistic use of technology that will change the basic approach to K-12 education.

The Whole Village Project

Healthy Alaska Villages

- Safety
- Health
- Education
- Economic Development
- Social Services
- Culture
- Government
- Entertainment

Project Objectives

- The intent of our project is to integrate K-12 instruction for Alaskan youth to include entrepreneurship, ecommerce, culture, and community learning strategies for Rural Villages.
- "Planting seeds of entrepreneurship must begin early enough in a child's primary education to establish entrepreneurship as a lifelong choice."

Project Focus

- Education for At Risk Native Youth
 - Using proven ILP processes
- Rural Economic Development
 - Early development of entrepreneurial skills
 - Enhanced Junior Achievement
- Preservation of Native Culture
 - Providing options for village life
- Content Delivery Networking
 - Cost effectively disseminate content to villages

Introduction

- **Alaska Worldwide**
 - Kerry Boyd
 - Presentation Host
 - Project Management
- **WW IDEA**
 - Jim Foster
 - Not For Profit
 - Innovative Education
- **AASB**
 - Carl Rose
 - Digital Learning
- **Lone Eagle**
 - Frank Odasz
 - Rural Economic Development
 - Teacher of Teachers
- **DRS TAMSCO**
 - Fletcher Brown
 - Remote Solutions Deployment
 - Content Distribution Management

Supporters

- **Alaska Manufacturing Extension Partnership – Eric Downey**
 - Existing e-commerce program – 16 centers
 - Focus on Native art sales as tool for cultural sustainability
 - Hosting an e-commerce conference on April 24
- **North Star Television Network – Dr. Dan Etulain**
 - Using TV to educate Natives on their e-commerce opportunities

WW IDEA, Inc

Jim Foster

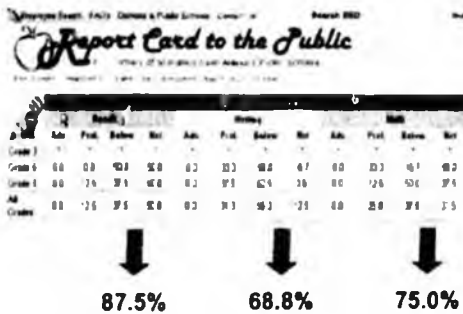
WW IDEA, INC

- Jim Foster – Background
- Collaborative
- Successful
- Replicable
- Sustainable

Two Paradigm Shifts

- Trained teachers to teach differently
- Created an environment where students are successful

Another Village School

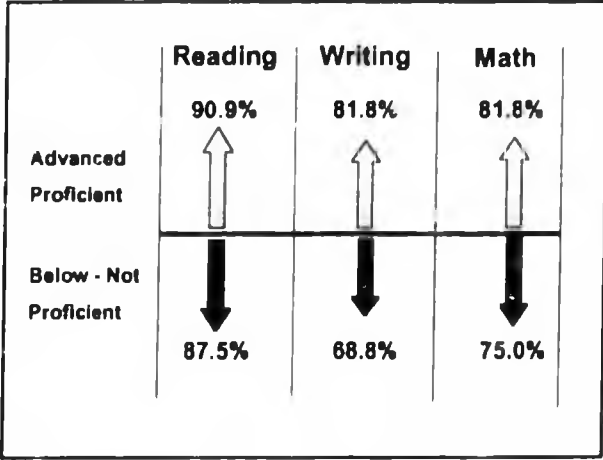


Galena Benchmark Scores

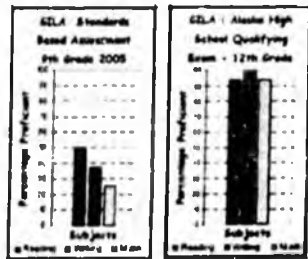
Report Card to the Public
 Department of Education - Anchorage School District

Grade	Reading				Writing			
	Adv	Prof	Below	Not	Adv	Prof	Below	Not
Grade 1	28.1	59.0	12.7	0.0	23.1	46.2	28.2	0.0
Grade 2	33.7	55.4	11.1	0.0	23.6	70.6	0.0	0.0
Grade 3	44.8	54.8	14.4	0.0	34.8	54.8	14.4	0.0
Grade 4	51.1	51.1	0.0	0.0	47.2	47.2	0.0	0.0





Achievement Success in a Regional Learning Center



Focus on The Problem

- Schools Are FAILING
- Low (unacceptable) Standardized Test Scores
- Federal Takeover
 - Does not address root problems
 - Most likely lead to continued failure

Solutions do exist!

ILP Model Works!

- Developing Individual Learning Plans for each student
 - Must involve
 - Teacher
 - Student
 - Parent
- Must be relevant to the State testing standards (GLE)
- Requires significant automation to maximize the potential
 - ILP development for each student
 - ILP execution, tracking and reporting
 - Distribution and management of content

Solutions Exist

- Develop Enhanced ILP Model for Alaska
- Replicate Success
- Specific Projects & Concepts
 - Assets Building
 - Researched Based Instruction
 - Implement ILP (Individual Learning Plan)
 - Track Imbedded State standards (GLE)
 - Develop Economic Development Training Standards

**Lone Eagle
Frank Odasz**

Rural Economic Development

DRS TAMSCO Introduction
Fletcher Brown

Remote Communications Solutions

About DRS TAMSCO

- SDB founded 1982
- 8(a) certified 1984
- 2005 Sales: \$330M
- 865 Employees
- 15 CONUS and OCONUS locations

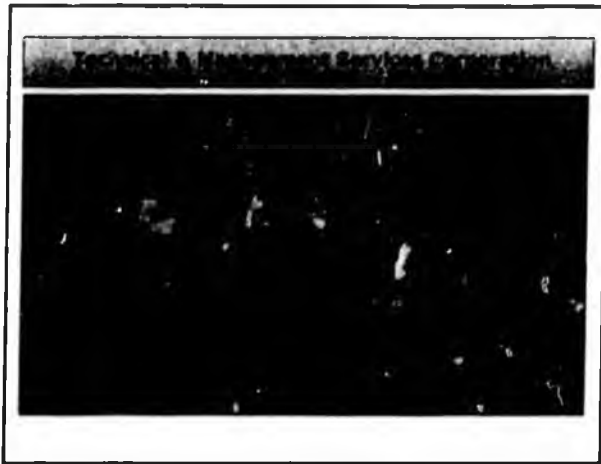


Native Economic Development

- Tribally Owned Native American Companies
- Alaska Native Corporations (ANCs)

- Initiated Native Work in 1992

- Brought 750 million + in revenue to Native Companies
 - Primary work in communications
 - Virtual work in remote or rural areas

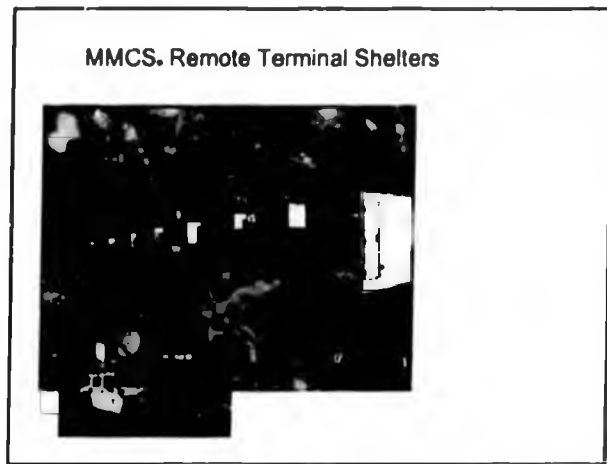


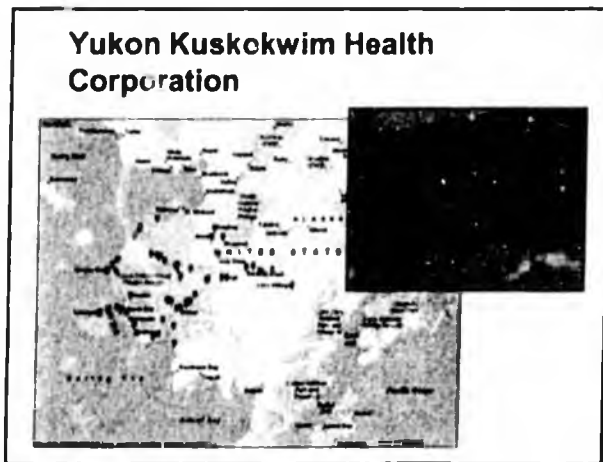
About TAMSCO
Telecommunications (Army Ops)
Telecommunications Design, Integration,
Operation and Maintenance

- ✓ Military & Commercial SATCOM
- ✓ 24-7 Operations and Maintenance Support
- ✓ Position any where within 24 hours
- ✓ Secure & Non-Secure

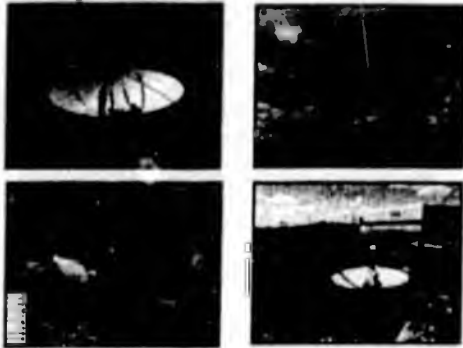




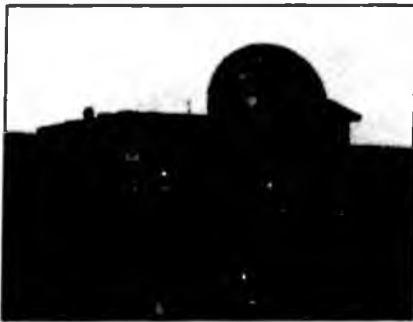




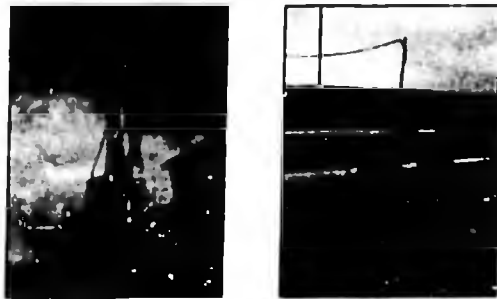
Yukon Kuskokwim Health Corporation



Bethel iDirect Hub



Yukon Kuskokwim Health Corporation



Yukon Kuskokwim Health Corporation



YKHC VoIP/LAN Deployment



The Bandwidth Myth

- "There will never be enough bandwidth to satisfy the needs of rural and remote villages in Alaska"
- More effective utilization of the bandwidth an organization can afford is the only answer
- Very little attention is given to this problem
- How can resources be used more effectively?

The Bandwidth Myth

- Circuit switched communications not efficient
- Packet switched (IP) communications is more efficient
 - Shared resources (subscription rates) - Good
 - Grossly over subscribed rates - Bad
- NOT capable of providing high quality content to remote areas>
 - High Quality Live Training
 - Rich Multimedia Distribution
- Go ahead - Try it - Brings network to its knees

Just Buy More Bandwidth

- The cost of satellite RF spectrum
 - 2,500 to 6,000 per Mhz
 - T-1 = 1.5 Mhz out and 1.5 Mhz in = 3.0 Mhz
 - 3.0 Mhz x 2,500/6,000 = 7,500 to 18,000
- This leads us right back to bandwidth sharing
- NOT capable of providing high quality content to remote areas>
 - Live Training
 - Multi Training

More Effective Utilization

- Multicast Data and Multimedia Capabilities
 - Create highly efficient multi-media content
 - Use one IP stream to hit 100 sites
- Use bandwidth efficient tools to improve functionality
 - Collaboration Servers
 - Terminal Services (Citrix ICA)
 - DVD (Digital Video Broadcast)
- Use Content Management Systems

Content Management

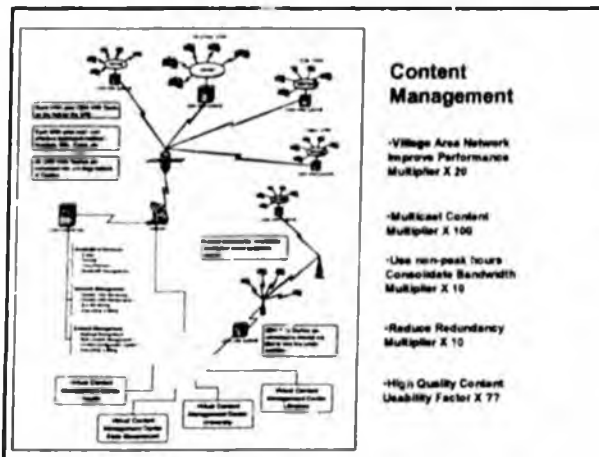
- What is Content? (Types)
 - Voice
 - Video
 - Text
 - Data

- What are some examples? (Uses)
 - Audio Discussions
 - Interactive Training Sessions
 - Forms
 - Books
 - Course material
 - Web sites (the entire site)
 - Combinations of all of the above (Multi-Media)

Content Management

- Healthy Village Content Areas (HVCA)
 - Safety
 - Health
 - Education
 - Economic Development
 - Culture
 - Social Services
 - Government
 - Entertainment

- Establish Virtual Content Management Centers
- Establish Content Management Architecture



Content Management - Examples

- AMEP - Initial and Recurrent Training
 - Hooper Bay

- Alaska Association of School Districts
 - Web Site - With video

- Health Aid Training
 - Initial
 - Recurrent

- Governance: Tanana Chiefs Conference
 - Annual Meeting
 - Multicast to all TCC villages

Preparing Requirements

- Focus on Function (Not Solution)
 - State Objectives
 - Define WHAT you want to achieve
 - Reveal the HOW to achieve it

- Make Industry put their thinking caps on

- Don't just buy "Bandwidth"

Summary

Summary

- Education for At Risk Native Youth
 - Using proven ILP processes
- Rural Economic Development
 - Early development of entrepreneurial skills
 - Enhanced Junior Achievement
- Preservation of Native Culture
 - Providing options for village life
- Content Delivery Networking
 - Cost effectively disseminate content to villages

Four Phase Plan

- Phase I Planning
- Phase II Proof of Concept
- Phase III Limited Operational Deployment
- Phase IV Expanded Deployment

Lone Eagle Consulting

- Big Sky Telegraph - 1988-1998
- Reach for the Sky - 1994 Online Teacher Mentoring and Lesson Plan Sharing (Annenberg/CPB)
- First YKSD Internet workshops 1997
- Online Graduate Courses for Alaska Pacific University since 1998
- USDA - Developed Online Rural Ecommerce, Wireless Mobile Laptop Labs, Collected Success Stories
- USDOL Demonstration Project - Refining the Community Awareness Raising Process
- Americorps C™ VISTA Project - National Community Networking Resource Coordinator
- Involved with International Indigenous Internet Issues

In Times of Change,
Learners Inherit the Earth

-Eric Fromm

Presenting for
"Strengthening the Links Between
Our Rural Communities" - British
Columbia Rural Summit Conference,
April 21st

Presenting on the BEST Indigenous
Broadband Applications for 23
Nations in Calgary April 25 for the
Asia Pacific Economic Council's
Telecommunications Working Group.



The BEST Broadband Application for Alaskans is Self-Actualization:

Maximizing Our Full Collective Potential for Learning, Innovation, and Collaboration.

We're Limited Only By Our Imaginations

The Internet has Unleashed a Global Explosion of Entrepreneurial Creativity

The Absolute BEST Indigenous Broadband Application would be to keep up to the same instant of progress on the latest indigenous Internet innovations as they occur worldwide.

**"BEST" Broadband Applications
will be defined by the community
or individual based on**

what they have learned about

"Broadband Applications."

Alaska Manufacturing Extension

Partnership's

E-RAVEN Ecommerce Portal

- Rural Alaskan Village Ecommerce Network (RAVEN)
- Supported by the Alaska Dept. of Commerce
- 18 Village Ecommerce Centers,
24 more planned for Fall 2008
- Participatory Research to identify Best Practices
for Ecommerce and Training
- Creating Village Pilot Projects to Model Success

- Partnering with the Alaska Native Arts
Foundation to create sustainable village
economies through global E-marketing of Alaska
Native Art.

**AMEP and Alaska Native Arts
Foundation**

**Sustaining Communities Through the Sale of
Art**

- 722 artists signed on ANAF website
- \$450,000 in ANAF art purchases
- 18 centers established
- 42 communities trained or visited

An Alaskan Village Sustainability Action Plan

- Assuring educational success for Native youth through Effective Online K12 Instruction matched to standards, and
- Youth Entrepreneurship/Entry-Level Ecommerce matched to Technology Standards, and
- Culturally Appropriate Community Learning with
- Multi-generational Digital Storytelling

Key Alaskan Governmental Policy Challenges

- Politics of Control, Advocacy, Transparency (Accountability on Genuine Outcomes)
- Authenticity of Citizen/Community Buy-in and Participation
 - Real Benefits for Real People
- Motivating All Potential Innovators and Entrepreneurs
- Efficiently gathering and sharing the best ecommerce success stories, mentoring expertise, fast-track training resources with all citizens on an ongoing basis
- The Need for Continual Reinvention and Innovation Sharing.

Broadband Without a Plan?

"Build it and they will come" has proved to be a "Field of Dreams."

...the Broadband Myth....
