

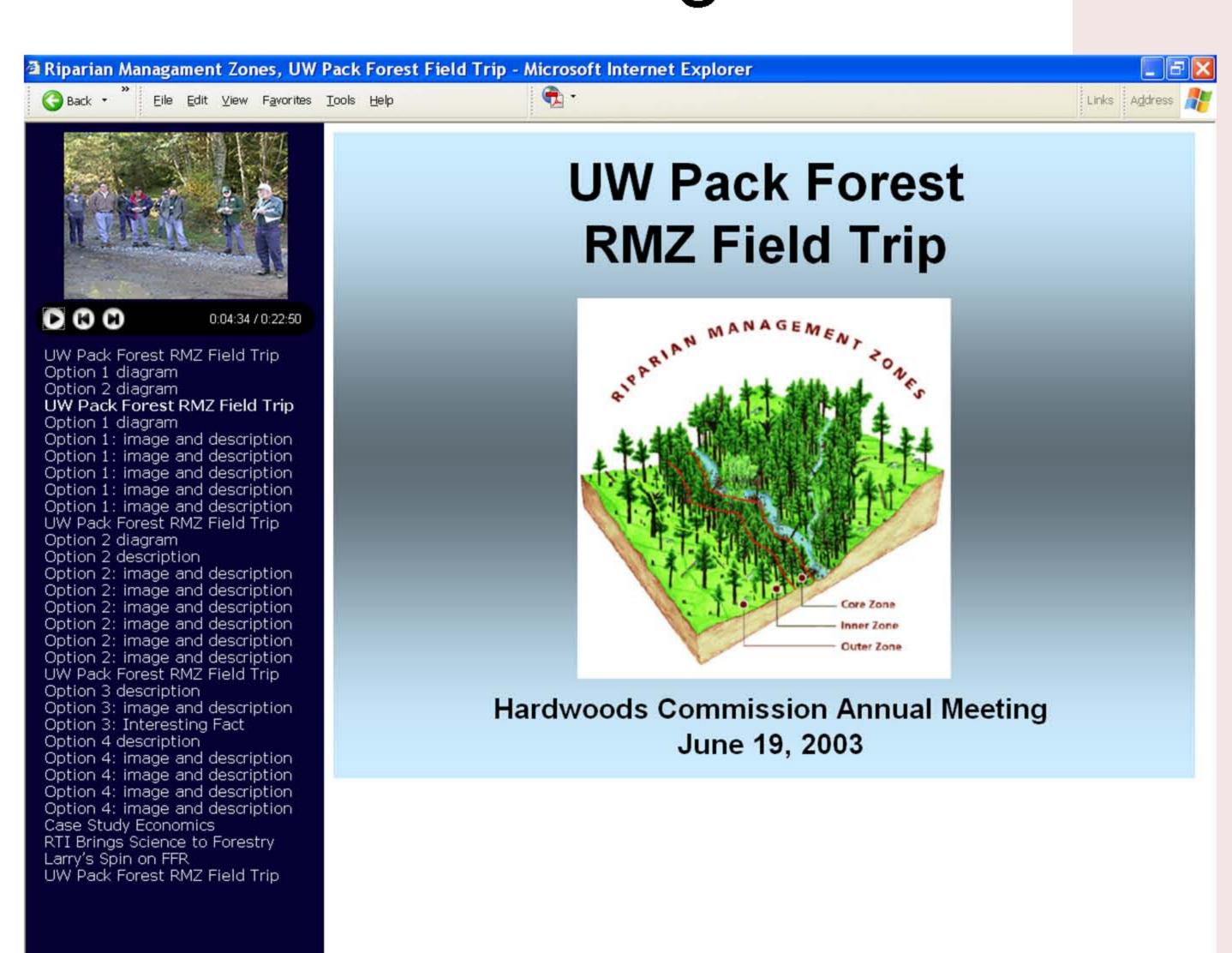
Home About RTI **Projects** Publications Presentations Streaming Video Tools GIS Contacts Comments Site Map

Links

http://www.ruraltech.org

Mission: Empower the existing infrastructure to use better technology in rural areas for managing forests for increased product and environmental values in support of local communities.

What is Streaming Video Plus?



Streaming Video Plus is a new technology that allows video to be presented along with PowerPoint slides over the web. The advantages of this technology over previous web delivery methods is the ability to simulate a classroom environment for very little cost with a short turn around time. Typical presentations can be streaming from the web in as little as 4 hours from the time a presentation is finished.

The backbone of Streaming Video Plus is Microsoft's PowerPoint, Producer, and Windows Media technologies. Utilizing these three technologies, presentations can be published to the web very cost effectively. Traditional video presentations can cost up to \$30,000 for a one hour production. Utilizing off the shelf consumer grade digital camcorders, web-based video productions can cost as little as \$200.

This drastic reduction in cost affords more opportunity for natural resource professionals to utilize cutting edge media technology to deliver timely and relevant information to a global audience.

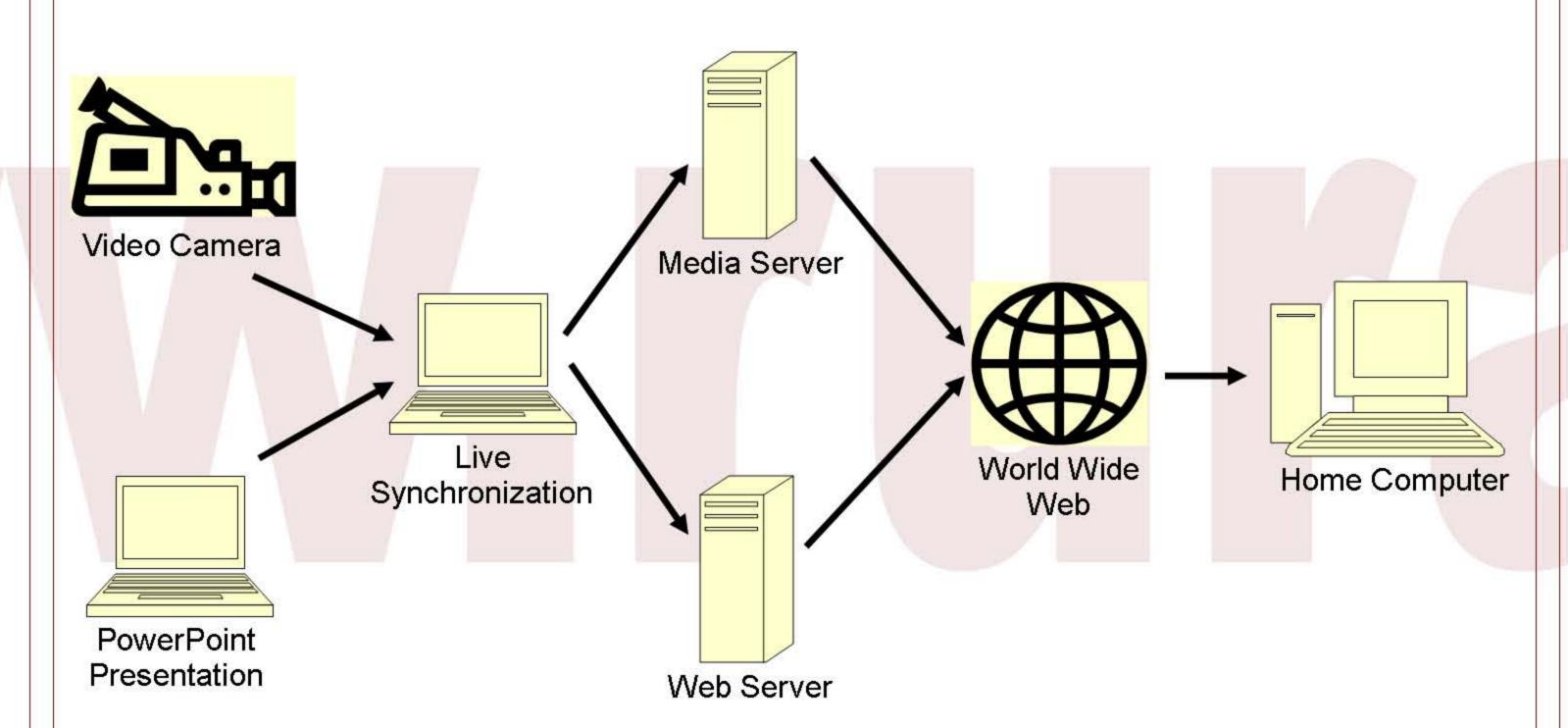
How does it work?



puter that records all of the timings associated with their presentation. In a one-person operation these timings are recorded into a file for later use in syn-

chronizing the	Event	Slide# Effect	Time	Presentation Elapsed
	Next Slide	1	11/14/2003 1:31:29 PM	0.2
presentation. This	Next Slide	2	11/14/2003 1:31:32 PM	2.664
looved the video	Next Slide	3	11/14/2003 1:31:33 PM	4.006
leaves the video-	Next Slide	4	11/14/2003 1:31:34 PM	4.587
grapher free to	Next Slide	5	11/14/2003 1:31:35 PM	5.448
	Next Slide	6	11/14/2003 1:31:35 PM	6.079
focus on re-	Next Slide	7	11/14/2003 1:31:36 PM	6.59
a a radius ar the a	Next Slide	8	11/14/2003 1:31:37 PM	7.351
cording the	End Show	0	11/14/2003 1:31:37 PM	
event.				

In a two-person operation, a laptop is connected directly to the digital video camera and slide timings are recorded directly into the synchronization software along with the digital video. Immediately following the conclusion of the presentation, the video, audio, and PowerPoint slides can be published directly to a streaming media web server and made available to a world wide audience.



Benefits of the Technology

Learner Benefits:

- Provides the "exact lecture" as a live delivery with all of the emphasis and body language of the lecturer.
- Provides the ability to interact with the lecture materials through the process of the lecture out-
- Provides an alternative learning format, allowing the learner to comprehend the information at their own time, place, and speed.
- Allows the learner to review materials later for increased retention.
- Allows the learner to obtain the lecture materials if they miss the class.
- Allows the learner to share information with neighbors and colleagues.

Delivery Benefits:

- Efficient program delivery; one recording can be presented multiple times at multiple locations maximizing audience exposure and minimizing government cost.
- Promotes Collaboration among educational cooperators: such as between universities and state and federal agencies and private organizations.
- Allows program developers to get materials to larger crowds than would be allowed in lecture
- Low cost equipment and software means broad availability.
- Minimal video technology expertise is required to develop. Train the trainers; short courses in streaming video technology empower field agents, local school districts, conservation non-profits, and others to pursue innovative information exchange.

How do I start using it?

Wireless Microphone (\$200—\$800)

Digital Video Camera, Endurance Batteries & Charger(\$400—\$2000)



Tripod with Remote (\$100—\$200)

9 Volt Rechargeable batteries & Charger (\$50)

Computer Hardware:

Laptop for live productions (\$2000) Video editing workstation (\$2000) Streaming Media Server (\$2500) Web Server (\$2500)

Computer Software:

Microsoft Windows 2000 or XP Microsoft PowerPoint 2002 or 2003 Microsoft Producer for PowerPoint Microsoft Windows Media Server Microsoft Internet Information Server

For more information contact the Rural Technology Initiative at the University of Washington. We train individuals in the use of the technology for natural resource outreach and education. The RTI is a cooperative program of WSU, UW and USFS.







RTI (Rural Technology Initiative) was established in January 2000 by a federal grant as a pilot project to accelerate the implementation of new technologies in rural forest resource-based communities. Increasing complexity from changing environmental regulations, such as the new Forest and Fish Agreement in Washington State, and the recognition that new research findings were well ahead of implementation suggested the need for more successful technology transfer. University of Washington (UW) and Washington State University (WSU) Cooperative Extension developed RTI as a cooperative program with the support of a Rural Advisory Board. Funding was made possible by a Congressional Appropriation through USDA - Forest Service Cooperative Programs.