



Video Remote Interpreting (VRI) Uses video-conferencing technology to provide interpreting services from off-site locations What's needed? Web camera(s) Display screen Microphone/speaker Software Fast internet connection Amy Hole, UNM Interpreter Coordinator, working in the particular metabolic.

Choosing VRI Effective strategy in areas without a large pool of qualified interpreters Requires good connectivity in classroom Class format – lecture or interactive group? One-way or two-way connections? Consider student participation Reading sign language from the screen may be more difficult than in person Firewalls may pose problems!

CART Communication Access Realtime Translation

- What is it?
 - Speaker's words displayed on screen or laptop
 - Usually a verbatim readout with disk/printout available after class
- When is it used in higher education?
 - Classroom settings, meetings, assemblies

CART Communication Access Realtime Translation

- Who's the typical student using it?
 - Student in courses with complex terminology; oral deaf or late-deafened individual
- Who provides it?
 - Skilled stenographers with additional training in captioning



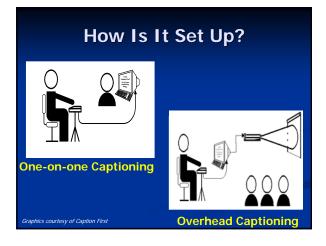
Speech-to-Text Systems

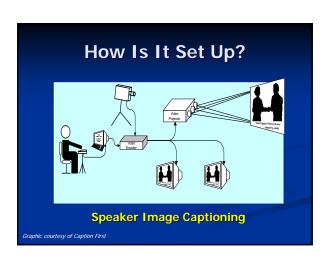
- What are they?
 - Speaker's words displayed on screen or laptop
 - Provides *meaning-for-meaning* translation
 - Uses word processing software aided by abbreviation software
- C-Print®
 - Developed at NTID, based on years of research
 - Automatic speech recognition available
 - Online training!
- TypeWell

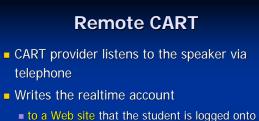
Speech-to-Text Systems

- Who's the typical student using them?
 - Students for whom English is their first language; hard-of-hearing, oral deaf or late-deafened individuals
- Who provides it?
 - Trained captionists who use laptops and software

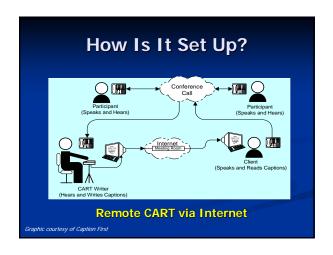








■ Text appears on the student's computer screen





C-Print® provided for student access

OR

- Service provider is at remote site
- Connections through phone lines and internet



Caption Mic



- Voice captioner uses a dictation mask or headset and "echoes" what is said in the classroom
- Speech recognition software converts speech into captions
- 4 -10 hours of speech model training required

Liberated Learning Initiative

- Instructor "teaches" speech recognition software to understand his/her speech
- Uses wireless microphone connected to computer
- Custom software converts spoken lecture into text
- Uses pauses in speech to create visual breaks
- Text is displayed in class



Captioning of Videos Process of converting the audio portion of a film,

- video, or CD-ROM into text
- Open captions vs. closed captions
 - Check equipment to make sure captions will show!
- Captioning existing materials?
 - Professional services available
 - Can purchase software for in-house use

Rear Window Captioning

- Movie-goer uses a transparent acrylic panel that attaches to the seat
- Captions are projected from rear of theater and appear to be superimposed on movie screen
- Panels are portable and adjustable



Communication Technologies



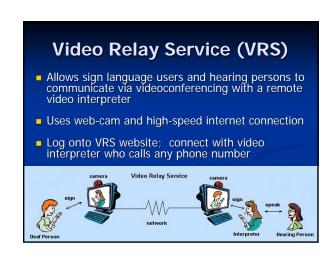
















Internet Relay - Advantages

- Larger text display area
- Up-front call instructions to the Communications Assistant (relay operator)
- Adjustable text sizes and colors for easier reading
- Split-screen mode to separate conversations

NexTalk



- Call or accept calls from a TTY
- Live, direct text communication
- Web-based service--anyone on browser can call
- Advantages:
 - Server handles calls; no relay operator needed
 - Free calls and downloadable software
 - TTYs not needed in offices to receive TTY calls
 - Training of staff is simplified
 - Conversations can be documented, printed, archived

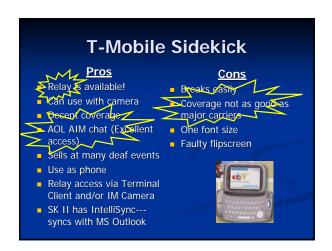
Captioned Telephone (CapTel)

- CapTel phone used to place/receive calls
- Connects with captioning service
- Caller uses own voice; reads captions
- What's needed?
 - Captioned telephone
 - CapTel service
- Similar to 2-line VCO, but uses only 1 line and 1 device









Using Pagers with Students

- Ongoing communication between students and DSS staff
 - Use of email instead of phone or face-to-face interactions
- Just-in-time communication
 - Notification of schedule changes
- Document exchange
 - Class notes or transcripts
- Scheduling and alarm features

Interpretype®

 Two pre-programmed laptop style computer devices



- Each device sends and displays typed messages to other device
- Log on to have a conversation by reading and typing
- Aids face-to-face communication

AlphaSmart



- Low Cost
- Long Battery Life (700 hours on 3 AA batteries)
- Lightweight rugged design (less than 2 lb.)
- 4-line by 40-character LCD display
- International character support for Danish, Dutch, French, German, Italian, Portuguese, Spanish and Swedish

Communication Assistant

- Provides text captions through a transmitter
- Tiny, wearable display for access to public events and places
- Developing at Georgia Tech Rehabilitation Engineering Research Center (RERC) – not yet available

 $http://www.wireless rerc.gatech.edu/projects/development/d2_survey.html$

Instant Messaging

Benefits

- Cheap information and community tool
- Promotes efficiency in getting answers to questions
- Supports multi-user conversations

Drawbacks

- Often misused
- Concerns about security

Signaling Devices

Signaling Devices Used on Campus Visual smoke detectors and flashing fire alarms Residence halls (common areas; student rooms) Campus buildings Door knockers Residence hall use Portable units available Captioned TVs in common areas



Where to Get More Information? PEPNet Resource Center http://prc.csun.edu



Resources: Captioning of Videos Captioned Media Program, SC www.cfv.org Closed Caption Maker, MD www.ccmaker.com NCI (National Captioning Institute), VA www.ncicap.org WGNH/National Center for Accessible Media, MA http://ncam.wqbh.org Captioning Web http://www.captions.org/softlinks.cfm

Remote CART http://www.cartinfo.org/remotecart.html http://www.captionfirst.com/ http://www.captionsunlimited.com/pages/1/index.htm http://www.educaption.net/

Remote C-Print ® Wisconsin: Panther project http://www.uwm.edu/Dept/DSAD/SAC/February2003 SAC_NEWS.html Shannon Aylesworth Ginny Chiaverina aylessr@uwm.edu ginnyc@uwm.edu Maine: Lisa Sorenson 207-282-3421 act@maine.rr.com

Resources: Video Remote Interpreting (VRI)

- http://www.interpretersinc.com/services.htm#2
- http://www.signonasl.com/video.htm
- http://mason.cuir.uwm.edu/panthercom/quidelines.html
- http://www.cacdhh.org/video_interpreting_services.html
- http://www.signtalkamerica.com/pages/1/index.htm
- http://www.caninterpreters.com/
- http://www.sorensonvrs.com/what/faq.php
- http://www.interpretingsolutionsinc.com/Services.asp

Resources: Speech-to-Text Systems

- C Print ® www.ntid.rit.edu/cprint
- Typewell www.typewell.com
- Viable Technologies www.viabletechnologies.com

Resources: Internet Relay Service Providers

ATT: <u>www.consumer.att.com/relay</u>

CSD: <u>www.c-s-d.org</u>

 $Hamilton\ Telecommunications:\ \underline{www.hiprelay.com}$

MCI: <u>www.ip-relay.com/index.htm</u>

Sorenson: <u>www.s-vision.com</u>

Sprint: <u>www.sprintvrs.com</u>

Resources: Video Relay Services (VRS)

ATT: <u>www.consumer.att.com/relay/video</u>

Communication Access Center for

Deaf and Hard of Hearing: www.cacdhh.org
CSD: www.c-s-d.org

CSD: www.c-s-d.org

Hamilton Telecommunications: <u>www.hipvrs.com</u>

Hands On Sign Language:

https://secure.hovrs.com/VRS_SSL/hovrs.aspx

MCI (IP-Relay): www.ip-relay.com/index.htm
Sorenson: www.s-vision.com

Sprint: <u>www.sprintvrs.com</u>

Video Relay Service (VRS)

Demos:

http://www.relaycall.com/national/index.html

http://www.ip-vrs.com/videorelay.jsp

Face-to-Face Communication

Interpretype: <u>www.interpretype.com</u>

AlphaSmart: <u>www.alphasmart.com</u>

Communication Assistant:

www.wirelessrerc.gatech.edu/projects/developm ent/d2_survey.html

Resources: Instant Messaging

- AOL Instant Messenger http://www.aim.com/
- MSN Messenger http://www.msnmessenger-download.com/
- Yahoo Messenger http://messenger.yahoo.com/