



## EDTC622: Topic Proposal

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### **Working Title:**

Snapshot of Video Services and Utilization at NJEDge.Net

### Research Questions

#### **Topic 1: Readiness**

*Are members ready to utilize the services emerging from NJEDge.net initiatives? What are the services? Do they meet the requirements for use? What is holding back use?*

CS: Page: 1

There are a lot of sub questions here—basically relating to what you mean by “ready.” You might also want to explore the “barriers” to use. This is not only a practical ‘fall back’ but it would be the kind of data needed IF use is not up to expectations.

#### **Topic 2: Utilization**

*What are the members of NJEDge doing with audio/video integration in the classroom? How much of it is already adapted to ipVideo? What can be readily adapted to ipVideo that isn't?*

CS: Do you think you'll find a lot here?

### Purpose & Rational

The purpose of the study is to determine the general state of readiness of the members of NJEDge.net for the emerging video services being offered by the state of New Jersey. This information would be relevant to the organization and useful in guiding NJEDge in targeting appropriate support in areas that may need attention. The study will also provide a broad look at the level of expertise working on the project and which disciplines are using the services. The members can use this information as a guide to for future projects. On the state level, this study will also provide a map for future expenditures.

#### *Limitations*

1. Any limitations imposed by the NJEDge Executive Board.
- 2.

#### *Delimitations*

1. This study is restricted to the members of NJEDge.net. Specific questionnaires will be issued to:
  - a. Video Representatives (40)

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<sup>1</sup> Image: Microsoft Clip-Art Online, 9/14/2003 2:02:49 PM

b. Faculty Sampling (very large population)

2. Time is a critical issue.
- 3.

*Terms & Definitions*

Term	Definition
ATM	Asynchronous Transfer Mode. A transmission protocol common to very large data network backbones.
Ethernet	A local hardware protocol to interface with data networks.
H.320	Protocol for transmission of audio/video over ISDN
H.323	Protocol for video conferencing transmission over the Internet.
InteractiveTV	
ipVideo	a.k.a. <i>streaming video</i> . The transmission of video over a TCP/IP or ATM data network at various bit rates and formats depending on the application. The transmission generally includes audio formats.
MPEG-2	High Bandwidth compression & transmission protocol for audio/video over the Internet. Also used for encoding DVD media. The sub-specification for audio compression (Layer 3) is also a common format for MP3 players.
MPEG-4	Low Bandwidth compression & transmission protocol for audio/video over the Internet.
QOS	“Quality of Service” tag within the ATM protocol. It is emulated in TCP/IP v4 and adopted into the TCP/IP v6 specification. QOS prioritizes ipVideo packets so they move quickly over the Internet.
Remote Classroom	
Services	Includes Video Conferencing, Video on Demand, and Video Broadcasting; and combined multi-media.
TCP/IP	The Internet’s transmission protocol. It is common for TCT/IP to travel within an ATM network.
Video Broadcast	
Video Conference	
LATA	“Local Access & Transport Area” (Acronym Finder). In this paper, the term represents the three telephone & data communications networks that represent the state of New Jersey.

## Research Questions

### Readiness

Do the members have the required hardware to access services? Do members have appropriate bandwidth for desired level of service? Is there appropriate commitment at each institution?

### *Subquestions*

1. Suggestions?
- 2.

### **Utilization**

What are the available services? What is the most used service? Which discipline makes the most use of the service? What factors are preventing use? What is the level of integration into the course curriculum?

### *Subquestions*

1. Suggestions?
- 2.

## Research Hypothesis

Options:

- Utilization of video services is greater among institutions that built the appropriate infrastructure for its support.
- No relationship exists between the level of readiness and utilization.
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## Related Information

### **Search Terms**

- video class
- video education

### **Secondary Sources**

- University Business Magazine
- Syllabus Magazine
- (three more)

### **Primary Sources**

- Eric Academic Search Premiere
- (two more)

## Data and Sources

### **Elements**

1. (Events or *conditions* of the present, i.e. Discriptive Research, Ch.11)  
(*compare with* Action Research, Ch.13)
2. Types of Data
  - a. Statements

- b. Opinions
3. Anticipated Sources of data
  - a. Participants
  - b. Informants
  - c. Records

## Participants & Data Collection

- Type of Sample: Cluster (for VRGs) and Convenience (Faculty). (see Ch. 7)
- How will I select sample? (Opportunistic – no guarantees on responses.)
- Expectations of participants: fill out a survey.
- Data will be obtained by questioning and followup verbal interviews.
- Most questions will be asked by survey through a web form. The survey may include rating scales to measure level of interest in specific services.
- Data will be accumulated by Categorization and Tallies
- Legitimacy assumed by the targeted audience. Preliminary questions will be asked that verify the person is qualified to answer, and to present the appropriate survey.
- Accuracy is also assumed by the targeted audience. Accuracy of convenience will be determined through the questionnaire.

## Data Analysis

Qualitative?, see Ch. 8

## Report Format

General format

- Specification of the Problem
- Review of Related Literature
- Procedures and data collection
- Data analysis
- Findings
- Conclusions
- As adopted by the EdTech Department...