Creators & Consumers

Researchers and digital media

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Research & digital media (video, audio, images & cross media)

Many, very diverse research uses & users

Areas of commonality: objectives, challenges & types of support required

Much of this not unique to research users (familiar to users/managers of museum, archive, library & teaching collections?)

Much not even unique to digital sound & vision (good practice when making & using any kind of data?)

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National advisory service supporting the use of digital media in teaching & research

- Digital Video
- Digital Audio
- Digital Images
- Cross Media

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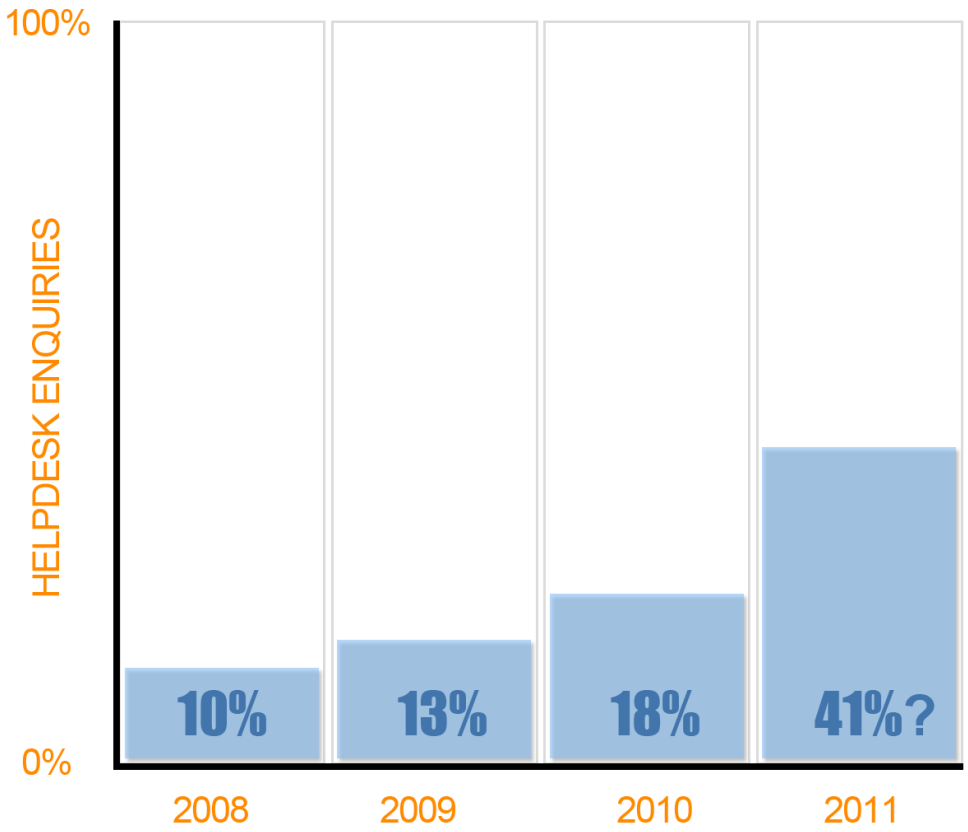
Calls for research support



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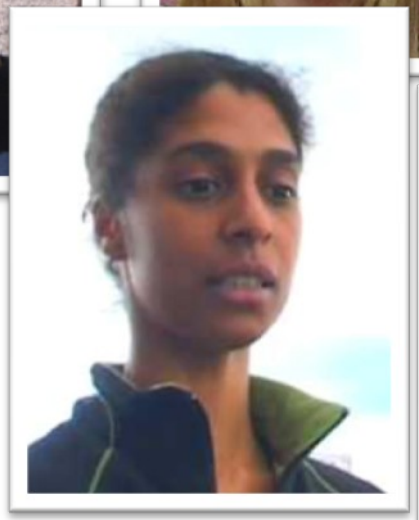
Who's using digital media in research?

Mike
Ahmed
Sarah
Barry
Bertha
Paul



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What where they doing with it?

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Work-in-progress:

‘Research user’ needs analysis

Initially for JISC use, now being adapted for institutional repository managers.

<u>Conducted via</u>

Interviews

Surveys

Analysis of existing user stats

<u>Has identified</u>

Areas of commonality

Shared challenges

Types of support required

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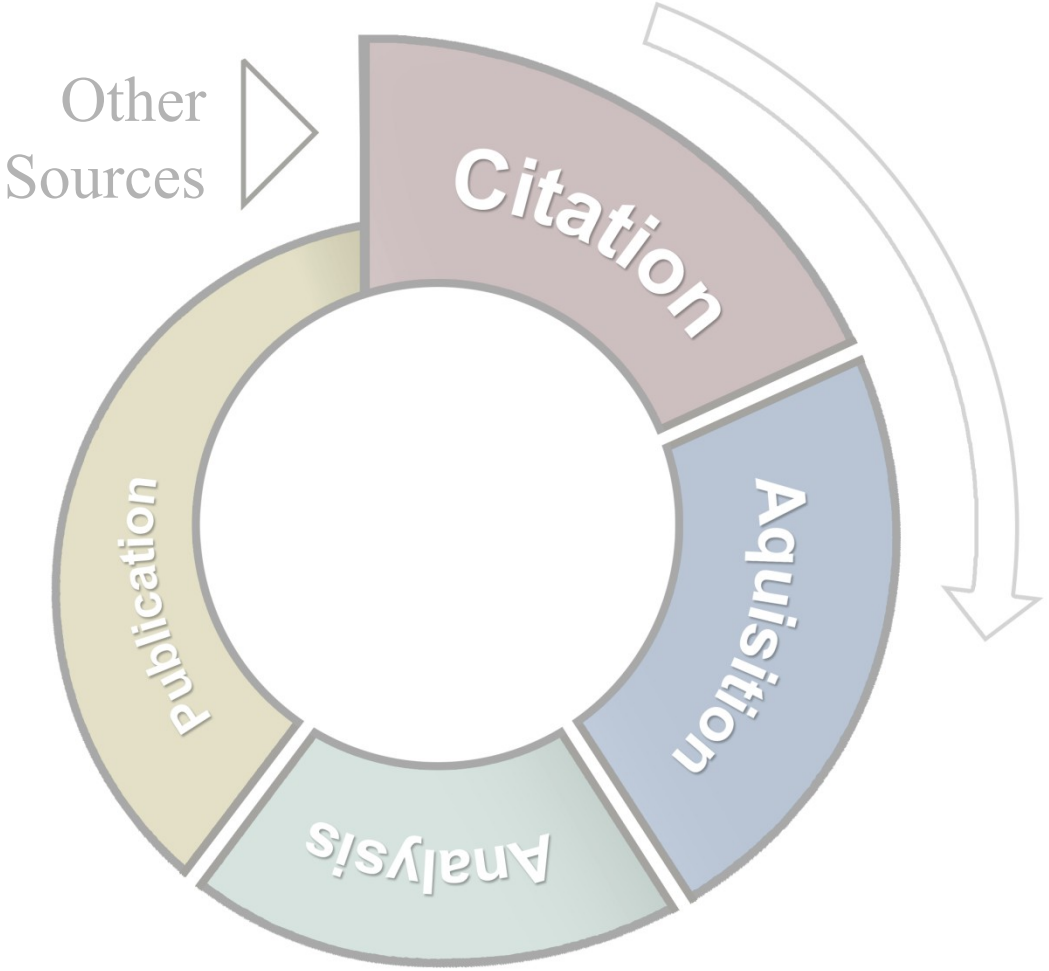
Supporting digital media use in research



Common Phases:

Citing digital media

Acquisition of digital media

Analysis of digital media

Publication of digital media

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Citation

- Beginning & end for many researchers!
- Some challenges:
    - lack of standardised metadata (especially unique identifiers – DOI, ISBN, GUI etc)
    - online, social media platforms

‘Standard’ citation for media

Title (if part of series, list title then series name)
Year of recording
Format
Publisher/distributer (if applicable)
Channel (if applicable)
Creator (if applicable)
Place of recording / Country of origin (if applicable)
Unique Identifier (DOI, ISBN, GUI etc)

Mike

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Mike

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Mike

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Mike

"Community Theter Tape 3, November."

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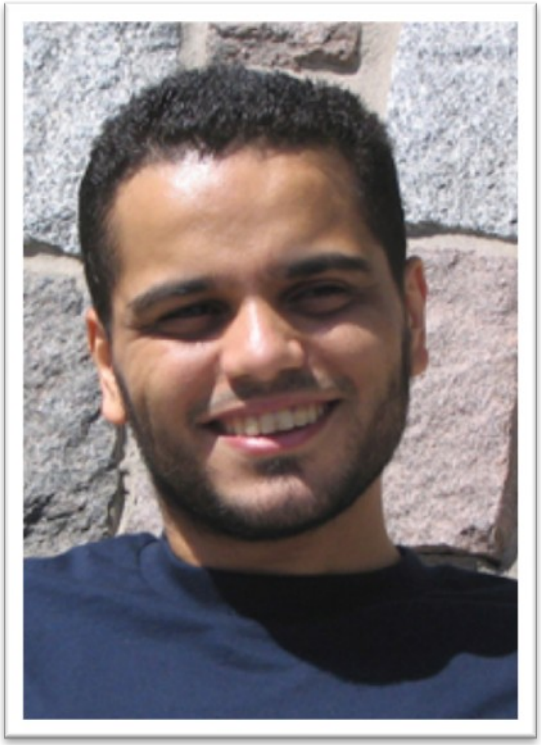
Alternative citation (Archival Source)

'Community Thetre, Tape 3, November', U-matic tape. The Folklore Archive, Park Street, Gloucester, Row G, Shelf 9, Box 22. Item Number 000332.

Ahmed



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Ahmed

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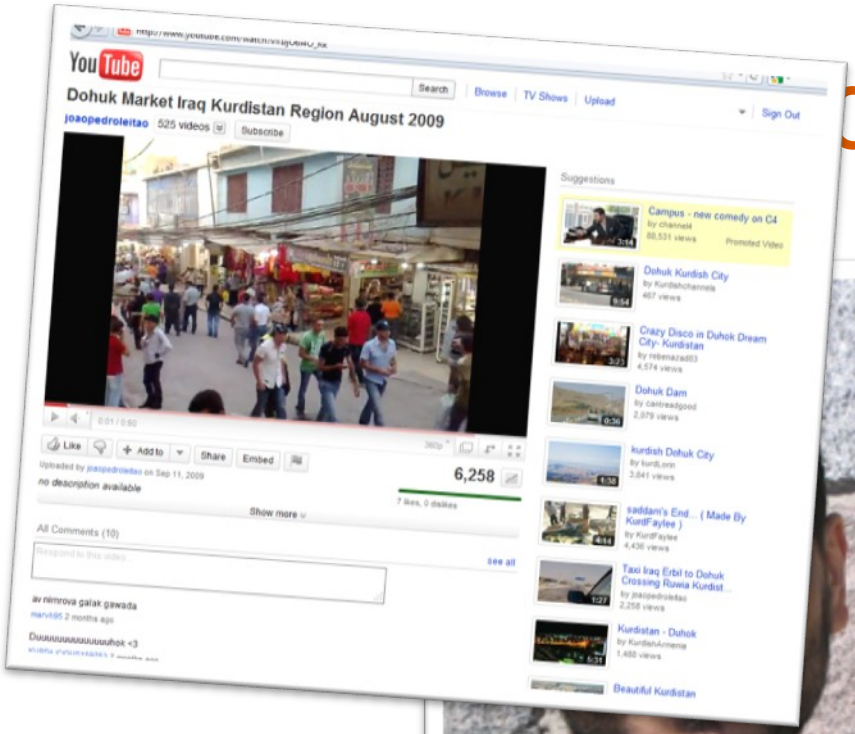

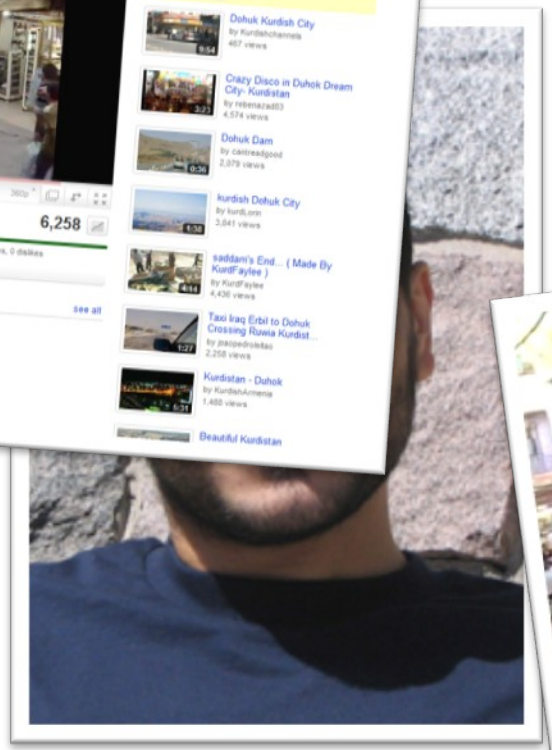

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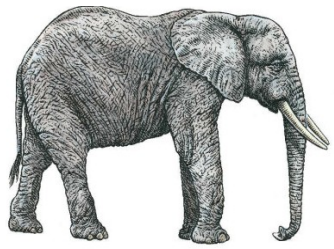
Alternative citation (Online resource)

Dohuk Market Iraq Kudistan Region August 2009, online video, accessed 20 June 2010, <http://www.youtube.com/watch?v=RY1rRmNbRWI>.

Cite as Online Resource?

Ahmed: “That’s OK but it will get taken down. Can I download a copy (for research purposes)?”

JISC: “Ask the Poster then YouTube. But probably not.*”



*We’re working on it!

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2. Acquisition

Mobile phone Steadycam!

Acquisition: Digital media ‘in’

Unlimited number of ways to generate new media via research:

“*From CCTV footage through deep sea trawls to CGI and endoscopy.*”

Many benefit from a common approach…

Sarah

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Sarah

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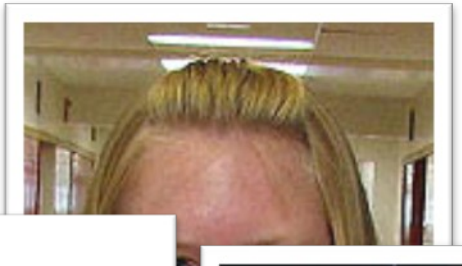
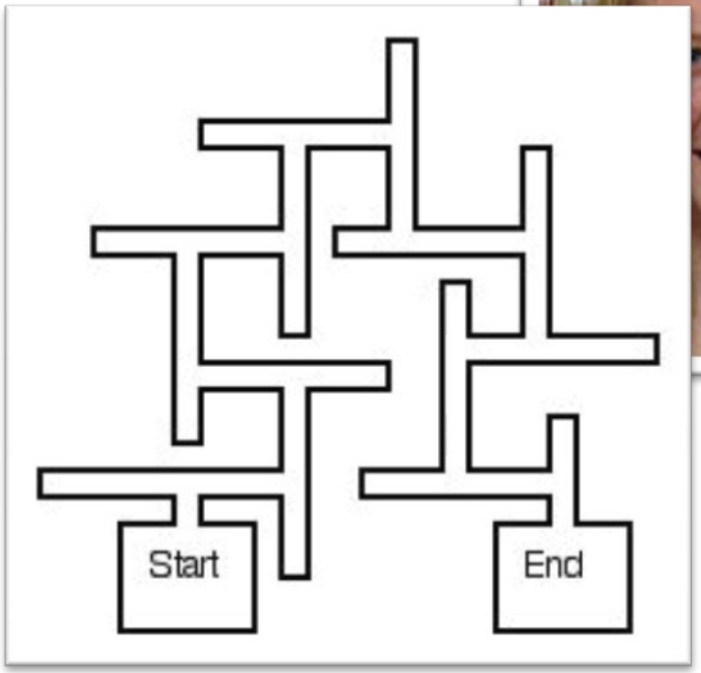
Sarah





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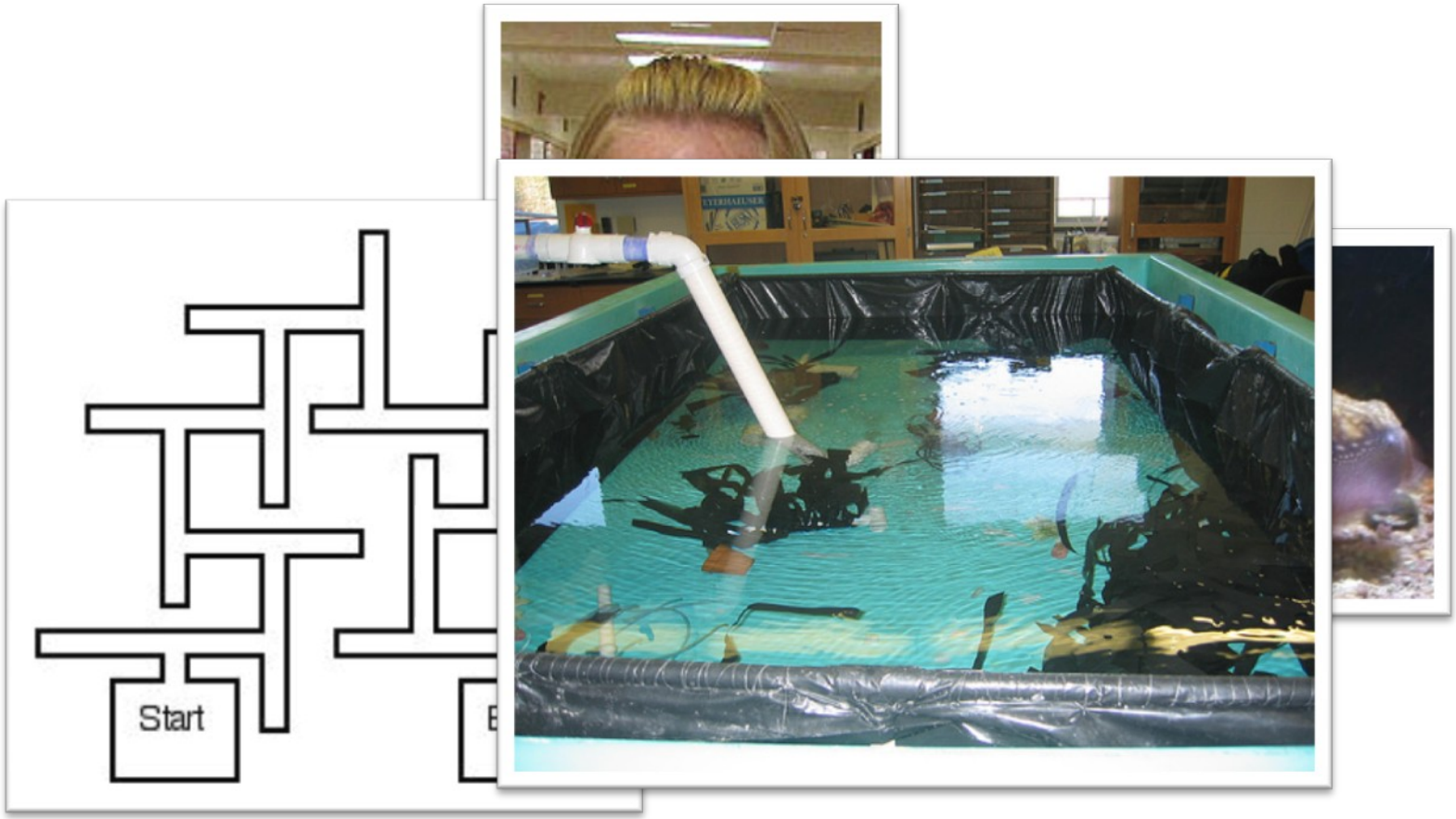
Sarah



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Type of support required

- Media produced must be **fit-for-purpose**. Consider **usage & the users** (e.g. analysis/publication)
- Think about how data will **perform** and which **properties** of it are **significant**
- Make **informed decisions** on things like: setting up a workspace, resolution, compression, efficient workflows

Sarah's plan included:

1. Selection of recording hardware & software
2. Selection of video resolution & file format
3. Specifying a camera position
4. Specifying lighting
5. Ensuring good colour contrast
6. A consistent workflow

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Approaches to analysis

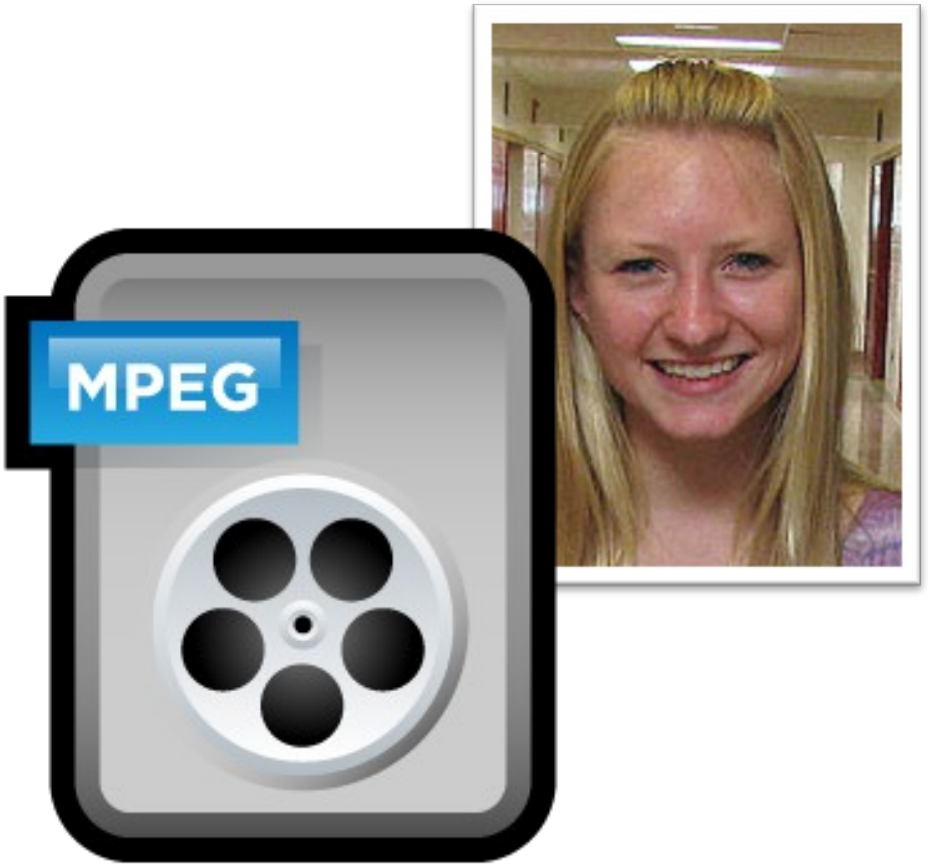
Quantitative (typically automated)

Qualitative (typically manual)

Hybrid (semi-automated)

Quantitative: Back to Sarah

Quantitative: Back to Sarah



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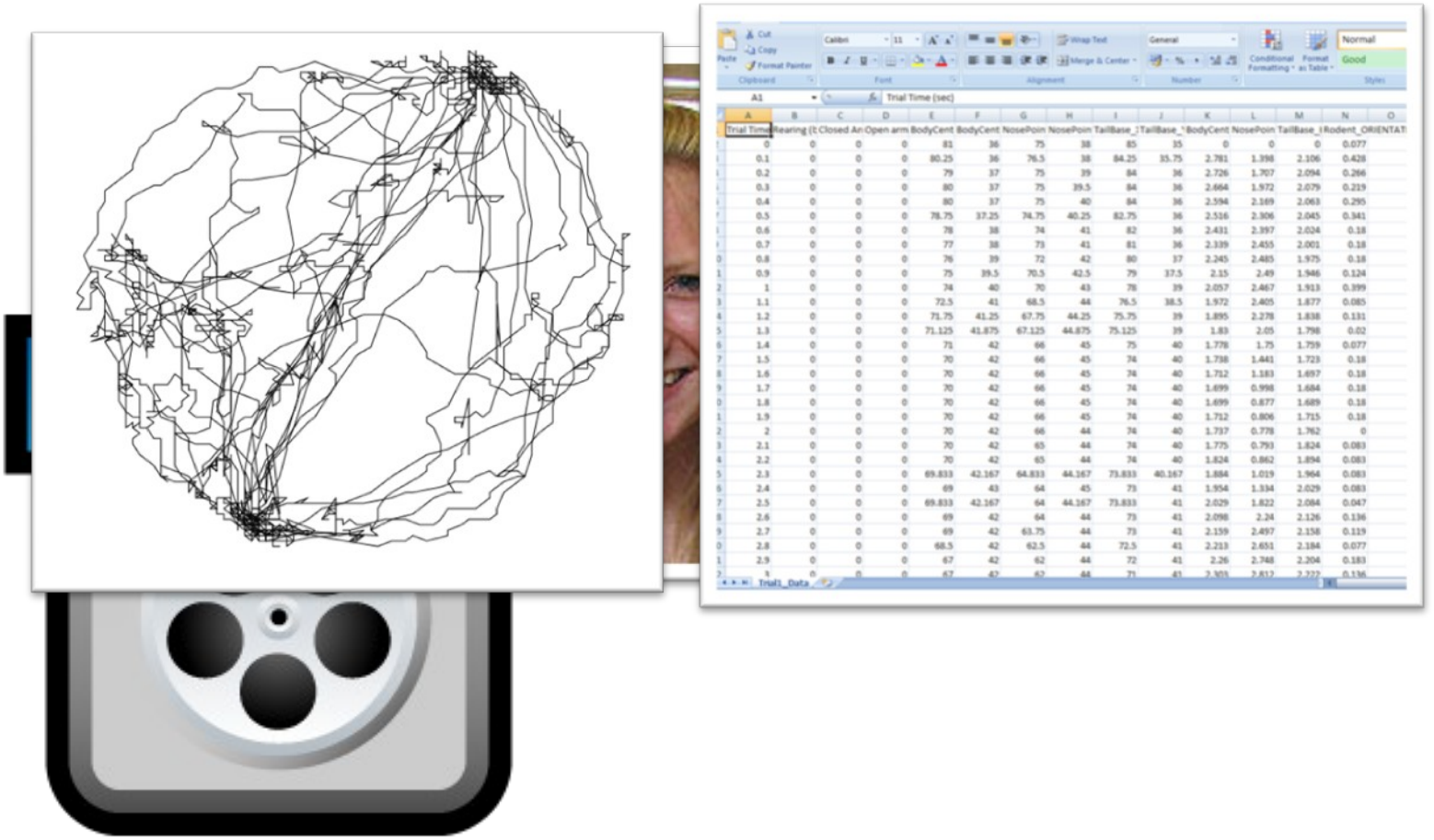
Quantitative: Back to Sarah



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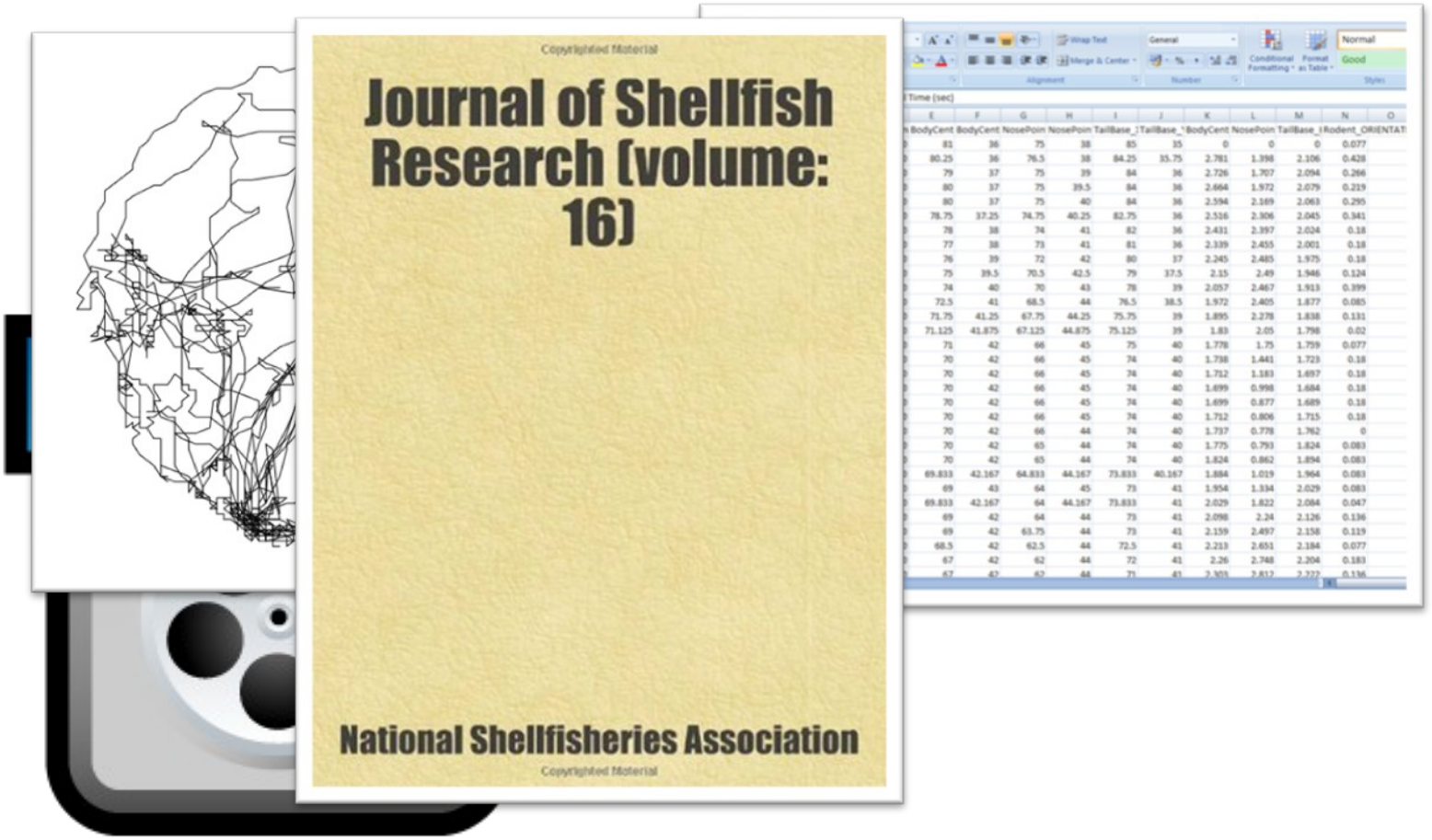
Quantitative: Back to Sarah



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Type of support required

- Open vs. proprietary software
- File formats for analysis
- File naming for analysis
- (Shared) media management system

Qualitative: Barry

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Qualitative: Barry

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Qualitative: Barry

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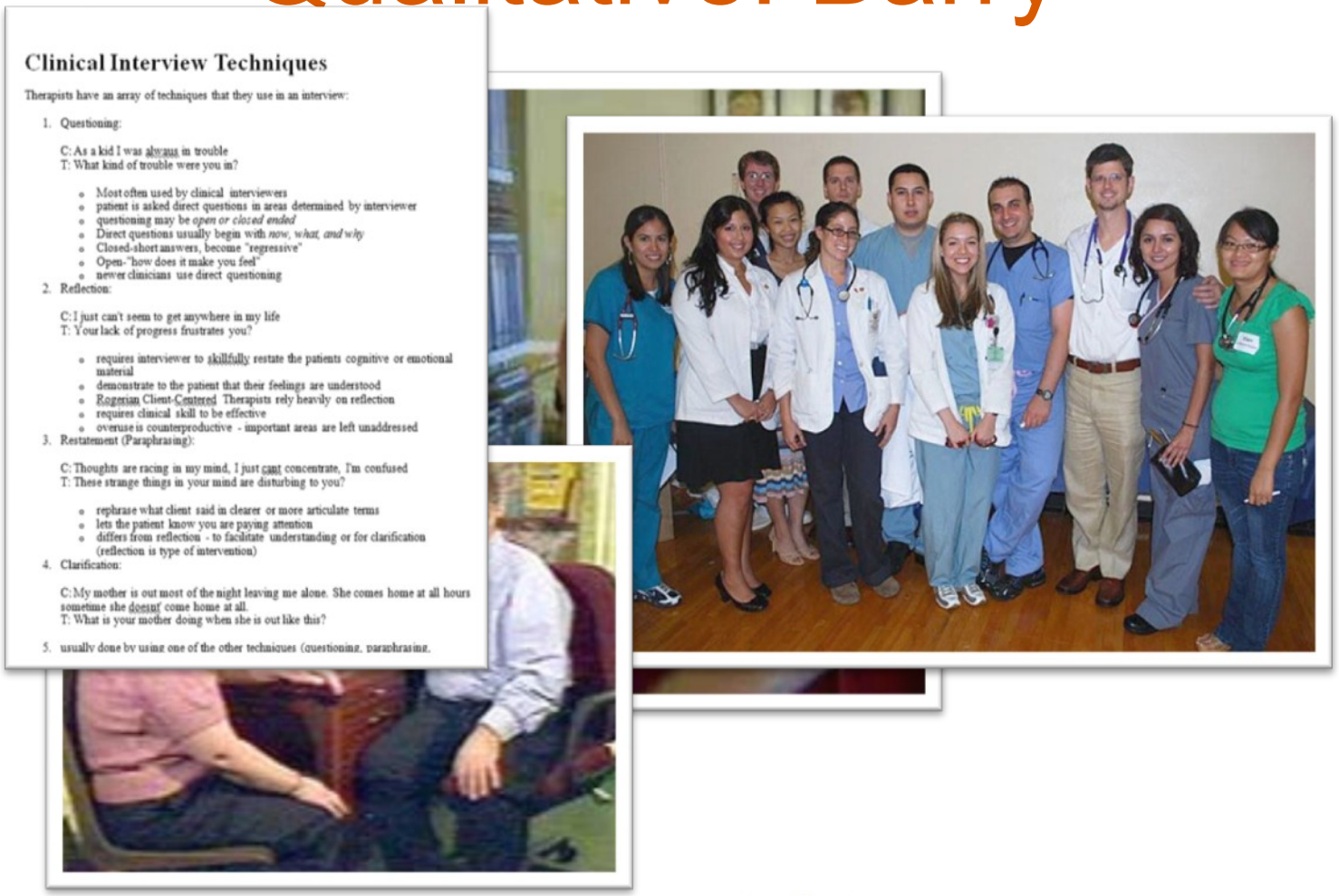
Qualitative: Barry



Clinical Interview Techniques

Therapists have an array of techniques that they use in an interview:

1. Questioning:

   C: As a kid I was always in trouble
   T: What kind of trouble were you in?

   - Most often used by clinical interviewers
   - patient is asked direct questions in areas determined by interviewer
   - questioning may be *open or closed ended*
   - Direct questions usually begin with *now, what, and why*
   - Closed-short answers, become "regressive"
   - Open-"how does it make you feel"
   - newer clinicians use direct questioning

2. Reflection:

   C: I just can't seem to get anywhere in my life
   T: Your lack of progress frustrates you?

   - requires interviewer to skillfully restate the patients cognitive or emotional material
   - demonstrate to the patient that their feelings are understood
   - Rogerian Client-Centered Therapists rely heavily on reflection
   - requires clinical skill to be effective
   - overuse is counterproductive - important areas are left unaddressed

3. Restatement (Paraphrasing):

   C: Thoughts are racing in my mind, I just cant concentrate, I'm confused
   T: These strange things in your mind are disturbing to you?

   - rephrase what client said in clearer or more articulate terms
   - lets the patient know you are paying attention
   - differs from reflection - to facilitate understanding or for clarification (reflection is type of intervention)

4. Clarification:

   C: My mother is out most of the night leaving me alone. She comes home at all hours sometime she doesnt come home at all.
   T: What is your mother doing when she is out like this?

5. usually done by using one of the other techniques (questioning, paraphrasing,

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Type of support required

- Ethical considerations & legislation
  - Plans for encryption of video
  - Setting up authenticated access
  - Documenting permissions

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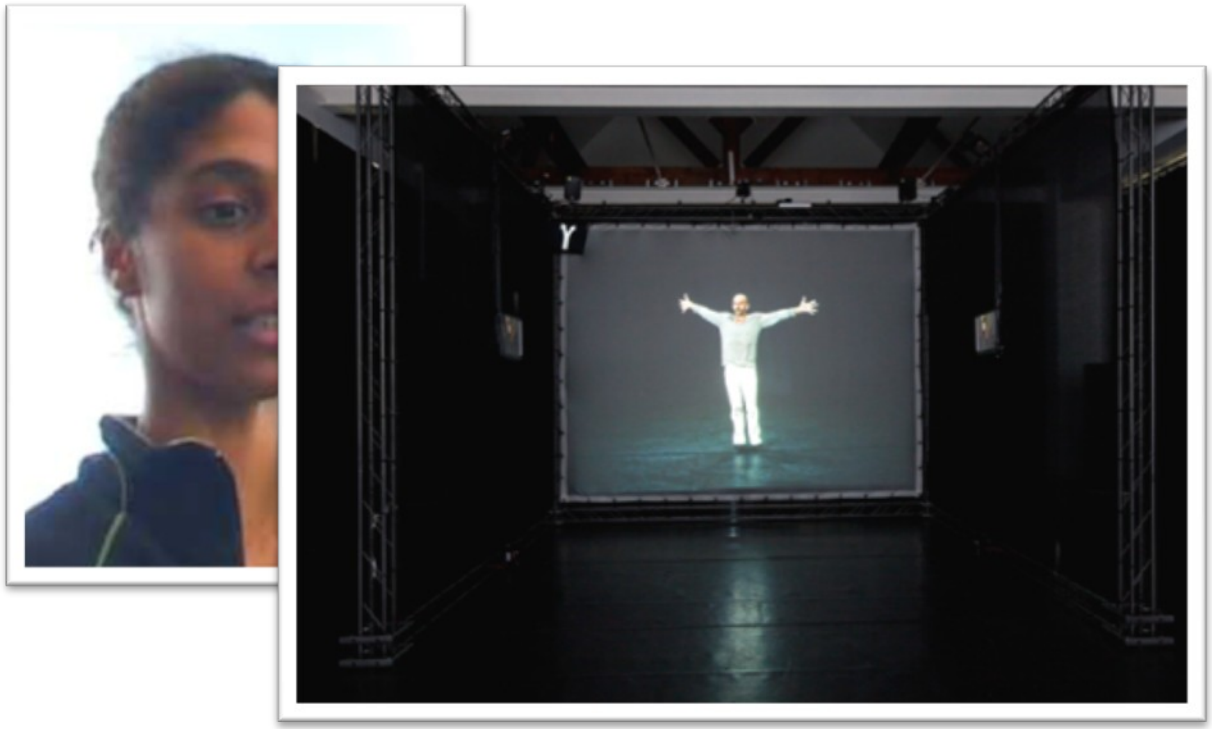
Publication

- Very little research published as a multimedia research output:
  - ***Enhanced publications*** an exception
  - Direct submission for ***external assessment*** another

Enhanced publication: Bertha

Enhanced publication: Bertha



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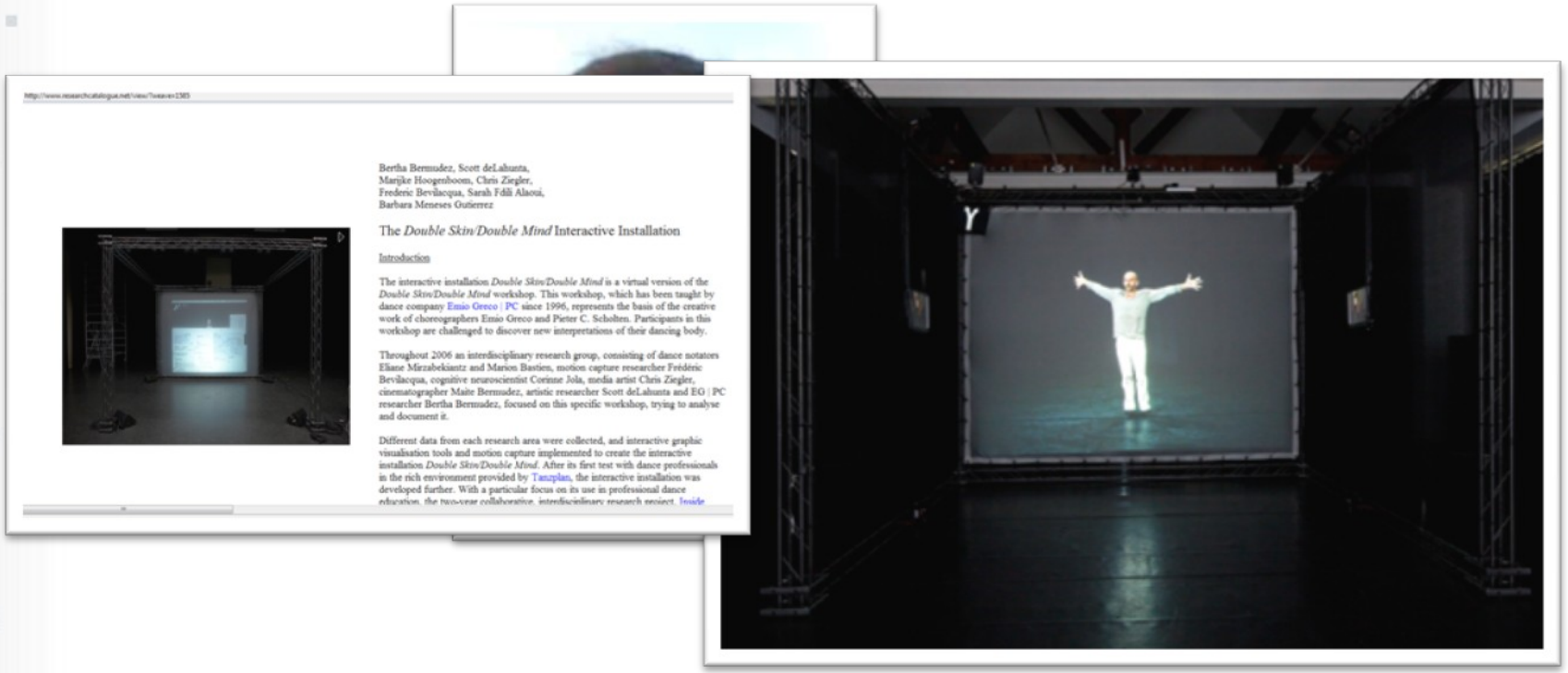
Enhanced publication: Bertha



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Enhanced publication: Bertha

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Type of support required

- Licensing (out)
- Versioning & file management
- File formats, compression & resolution
- Streaming media

RAE submission: Paul

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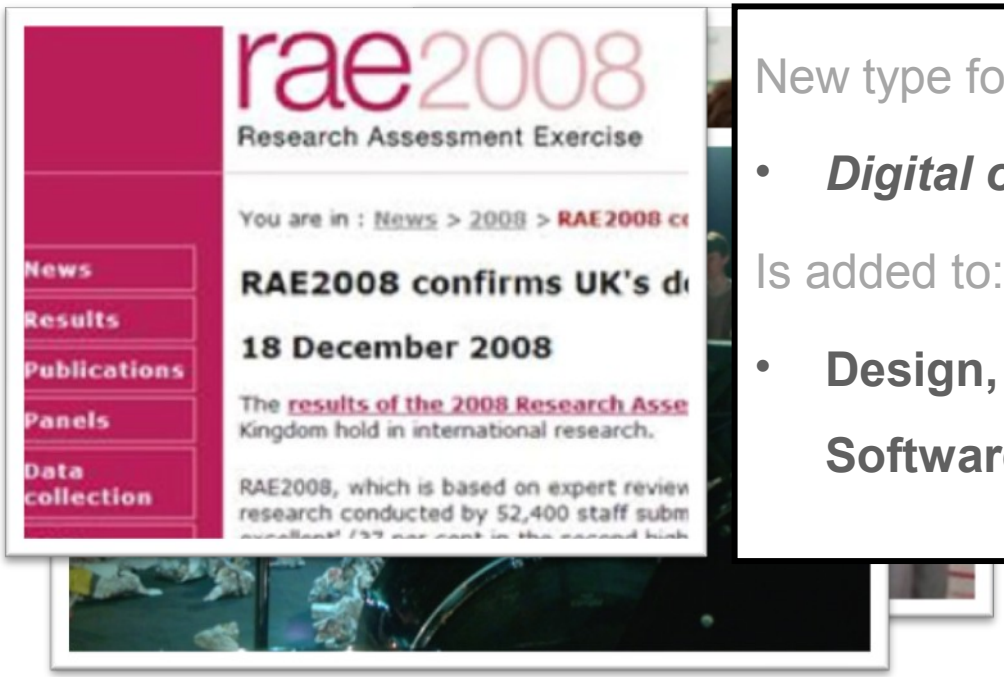

New type for 2008:

- ***Digital or Visual Media***

Is added to:

- **Design, Exhibition, Performance, Software & 'Other'**

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RAE

Media

n, Performance,

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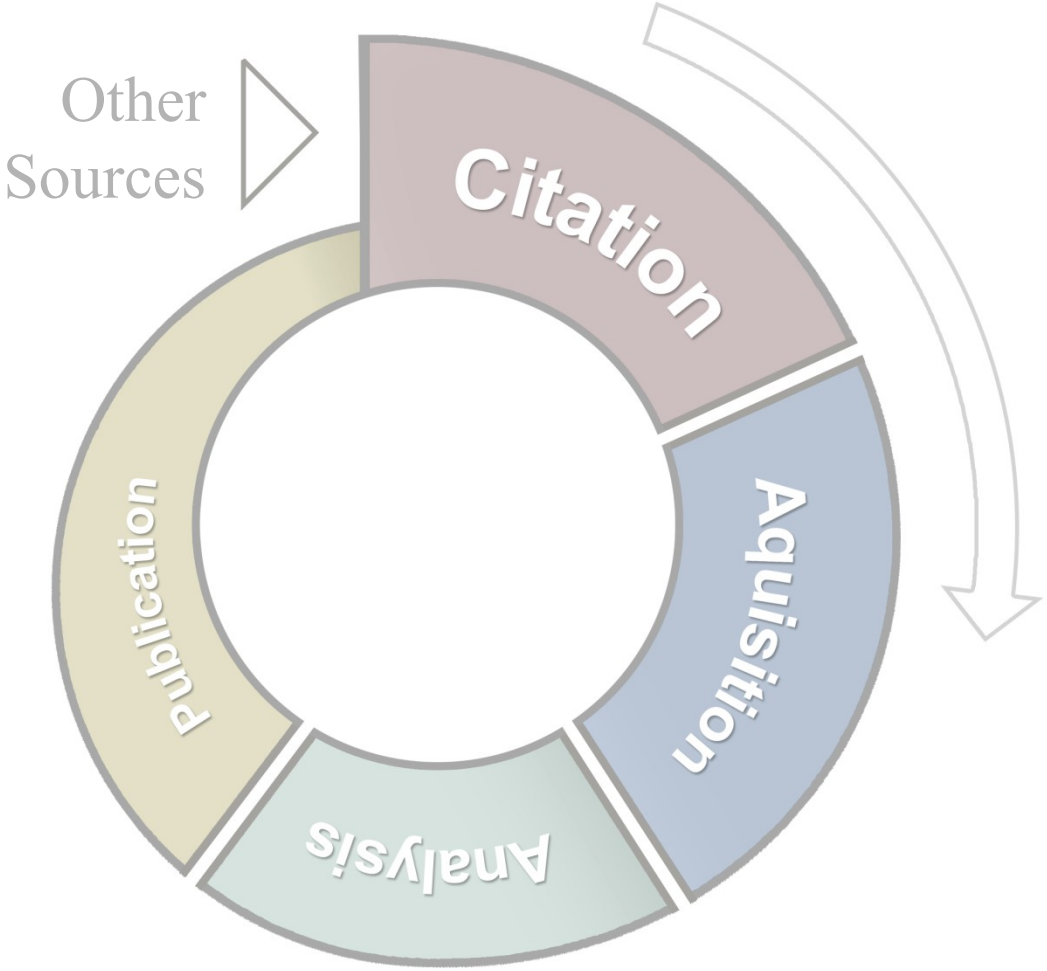
Type of support required

- Finding a long-term home for multimedia research data
- Self archiving & ‘micro-digital preservation’
- Maximising impact through sharing
- Usage / download stats
- Open data & Creative Commons

Digital media in the research cycle



Common Phases:

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Concluding points

- What researchers 'do' with digital media can be mapped & supported
- Good (basic?) digital preservation/data management advice hasn't yet reached the average researcher
- The 'open' publication of multimedia as research is growing in significance
- Legislation is struggling to keep up with research use of media

Plug…

Chapter of Digital Curation Centre's manual:
"*Managing Digital Video Research Data*"

By S Gray & A Whyte

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