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#4. The implications that digital media has upon data access and distribution

- Module 4: Moving and Distributing Data -- This module discusses the new concerns that the connected world will have upon a storage architecture. Among the new concerns are performance, new media types, and the explosion of multiple copies of data.

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An Interesting Question: How Will Societal Changes Impact Access and Distribution?

- IBM Architecture Experience
  - Business requirement to harvest and reuse IP/IC across the SW Group Enterprise
  - Formed an architecture board
  - Prepared specs and documents for reuse
  - Delivered to SW Group Developers: Nothing happened
  - ➔Problem was a generational communication difference
  - Changed approach to accommodate SW developers: Facebooks, Twitters & Meritocracy
  - Began to achieve results
- What will collaboration look like in the future?
- How will researchers who text, RSS, Facebook, tweet, and 2nd life collaborate in the future?
- How will their approach to collaboration impact access and distribution?

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Another Interesting Question: How are we to deal with rich media documents?

- Stating the obvious, rich media documents are not like books
- Their information is potentially located all over
- Some times – for instance video and audio – aren't book friendly
- How do we ensure the document is complete (e.g. no broken links)?
- How do we ensure the document hasn't changed (media, referenced by link, at time of "publication" are unaltered)

- Saving the digital information, though necessary, is not sufficient for playback
  – there are other considerations
  – Suggests a trade
    • Shall we save the digital media, transformed somehow, in canonical form
    • Or shall we preserve the digital media and all of the HW/SW environment

Recommend an activity to develop an architectural study of these issues