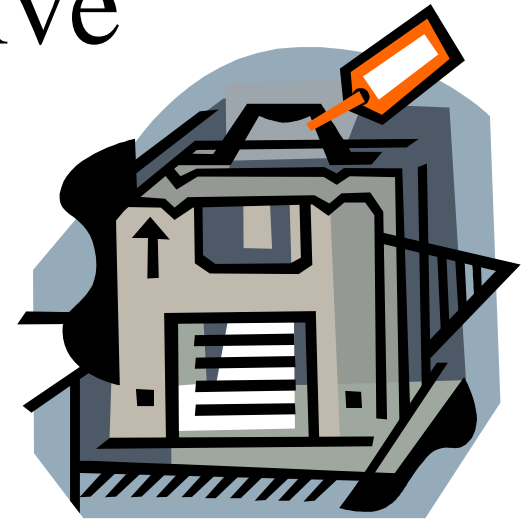# Not a Graveyard: The Olive Archive Project
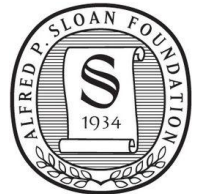
Erika Linke, Associate Dean of University Libraries

Dan Ryan, Curator of Executable Content

Carnegie Mellon University

Preserving.exe - May 21, 2013

INSTITUTE *of* **Museum** and **Library** SERVICES

Overview of Olive

Olive seeks to close a gap in the ability of academic libraries to meet the preservation requirements of constituents producing executable content.

- There is a high demand for access to and execution of early computer applications and games
- Preservation of data or code alone is insufficient – users must be able to actually manipulate this content in its original environment
- Olive will provide for precise replication of research operations

Two Threads Coming Together

- Computer Science Research

- Libraries/Archives Preservation Mission

Early activities

- Preliminary discussions at CMU & IBM 2009, 2010

- Convene thought group - 2010

- Identify advisory group 2011

- Grant writing 2011-12

Funding

- IMLS Leadership Grant-October 2012
  - Award: $497K over 2 years
  - Goal: To understand what types of content can be ingested into Olive and to determine how an executable content archive can fit into existing trusted repository standards such as OAIS, OCLC, CRL and JISC

- Sloan Foundation Grant-January 2013
  - Award: $400K over 2 years
  - Goal: To develop the technical framework for Olive which supports the long term preservation of executable content; To plan for an effective organizational structure to sustain the archive and provide access to executable content

Test Cases

Great American History Machine

Built by Prof. David Miller at CMU in the 1980's, provides GIS for early census data

ChemCollective

Award winning educational software built by Prof. David Yaron

Mystery House

Apple II game for which experimental metadata was generated under IMLS-funded *Preserving Virtual Worlds 2*

Doom

Popular PC game with heavy graphics released in 1993

Information Systems

Special issue of the Elsevier journal which will include executable content

Organizational model

- White paper to determine the best organizational structure to maintain and support Olive in the long term. Awarded to ITHAKA.

- Convene Summit - a coalition of interested parties in the public, private, and academic fields together to come to a consensus about the future of Olive. Fall 2013

Questions?