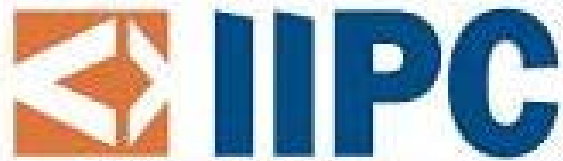


# Los Alamos National Laboratory Research Library

Herbert Van de Sompel  
Robert Sanderson



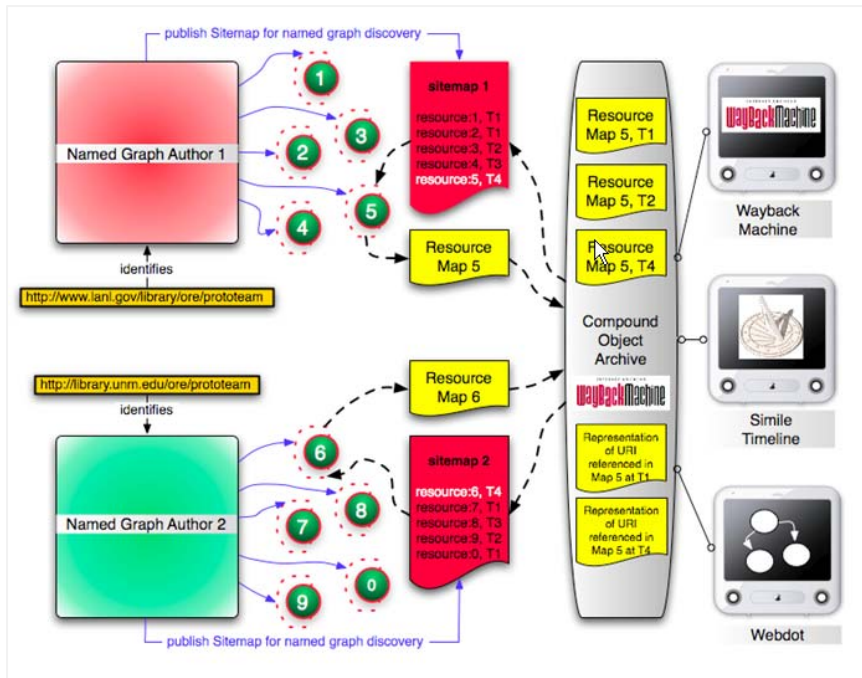
# New IIPC Member: Los Alamos National Laboratory, Research Library



Well, almost ...



# Digital Preservation Interest Exemplified



- aDORe repository for long term storage & access to the Research Library literature collection
- mod\_oai plugin for Apache servers (Tools for a Preservation Ready Web – With Old Dominion U.)
- Increased obsession with (lack of) Time and the Web, cf. OAI-ORE Aggregations
- Memento “Time Travel for the Web”

[http://www.ctwatch.org/quarterly/multimedia/11/ORE\\_prototype-demo/](http://www.ctwatch.org/quarterly/multimedia/11/ORE_prototype-demo/)



Memento wants to make it easy  
to access to Web of the Past

Memento is funded by  
The Library of Congress



Digital Preservation Award

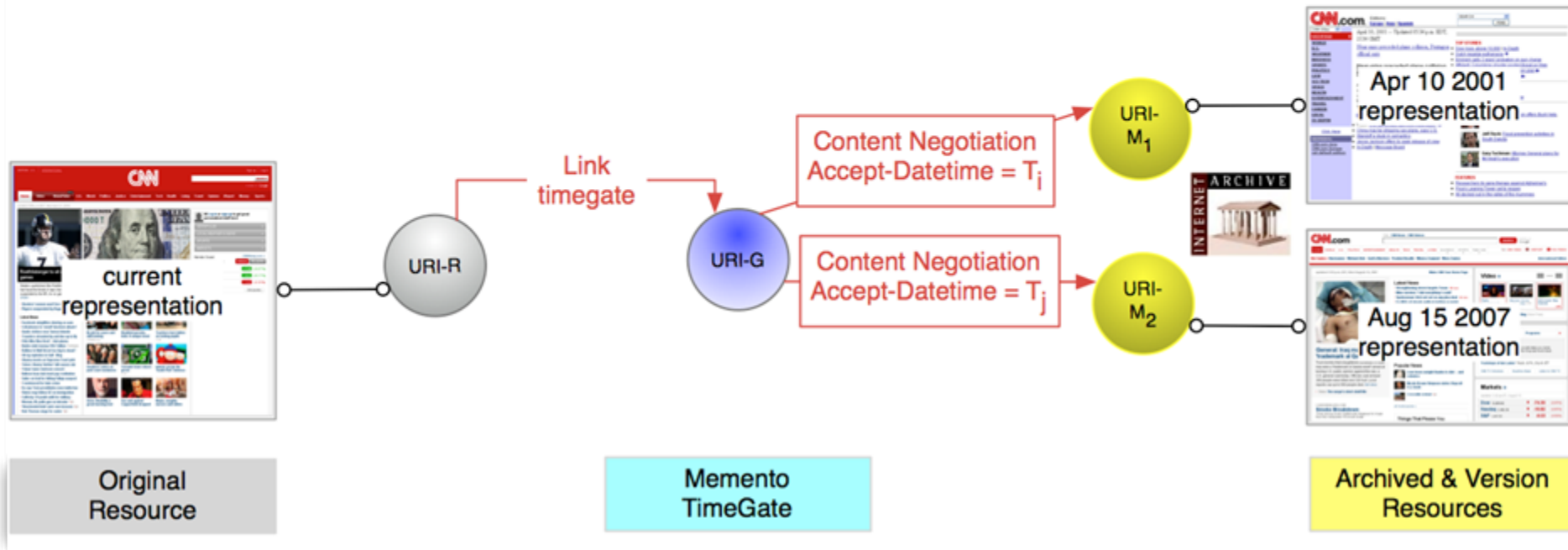
2010



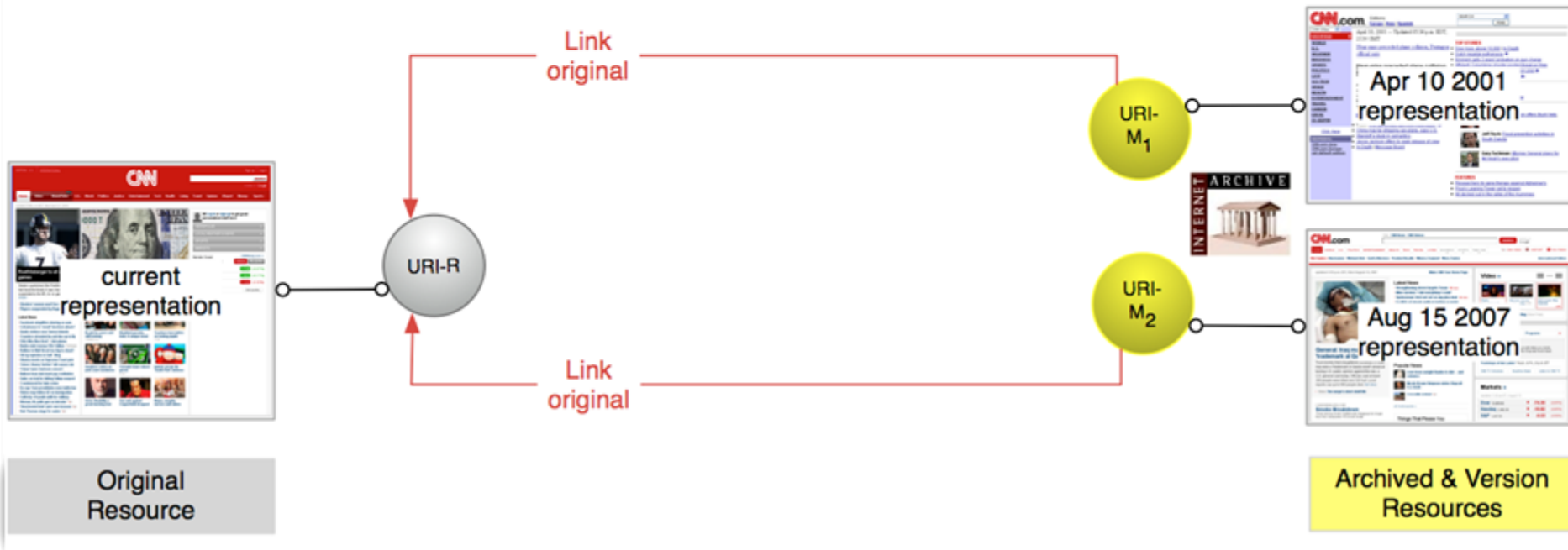
# Original Resources and Mementos



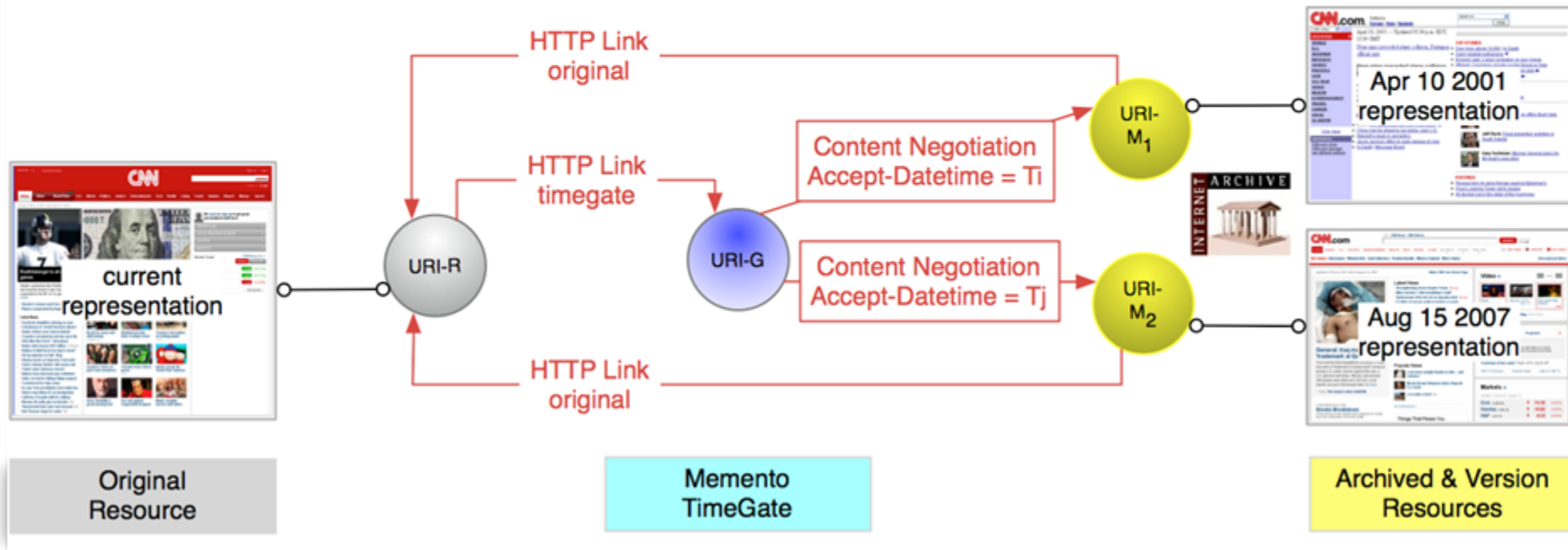
# Bridge from Present to Past



# Bridge from Past to Present



# Memento Framework





# Memento Progress

## DBpedia Archive @ mementodepot.org

### Archive Content

This archive contains prior versions of [DBpedia](#). It is based on data available from the [DBpedia Downloads page](#), and covers the following DBpedia dumps:

- DBpedia 3.7, DBpedia 3.6, DBpedia 3.5.1, DBpedia 3.5, DBpedia 3.4, DBpedia 3.3, DBpedia 3.2, DBpedia 3.1, DBpedia 3.0, DBpedia 3.0RC, DBpedia 2.0
- The English (en) version of all Core Datasets. No other languages are available.

### Memento Protocol Information

The archive is accessible via the [Memento](#) "Time Travel for the Web" protocol. Hence, it supports datetime negotiation to access a version of an RDF description as it existed at a specific moment in time. Check out the [brief introduction to Memento](#) if you are not familiar with it.

Presuming the Original Resource (current version) is <http://dbpedia.org/data/Oaxaca>, then the resources that are relevant for the Memento protocol are:

- TimeGate: <http://dbpedia.mementodepot.org/timegate/document/http://dbpedia.org/data/Oaxaca>
- Memento: <http://dbpedia.mementodepot.org/memento/20080103/http://dbpedia.org/data/Oaxaca> ; <http://dbpedia.mementodepot.org/memento/20110701/http://dbpedia.org/data/Oaxaca> ; etc.
- TimeMap: <http://dbpedia.mementodepot.org/timemap/link/http://dbpedia.org/data/Oaxaca>
- TimeBundle: <http://dbpedia.mementodepot.org/timebundle/http://dbpedia.org/data/Oaxaca>

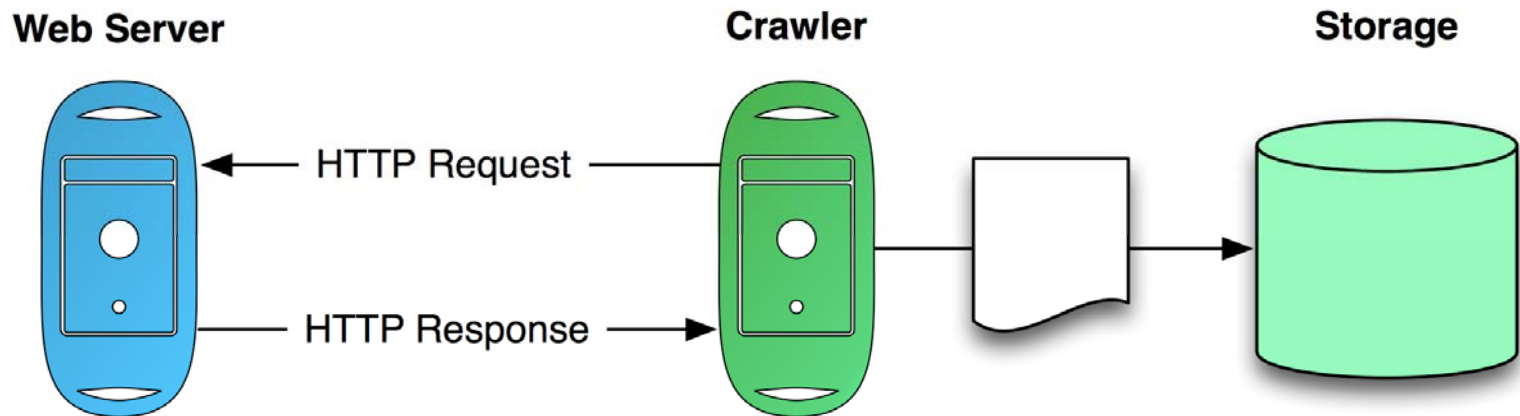
<http://mementoweb.org/depot/>

- Collaboration with IA on improved Memento integration in Wayback
- Collaboration with Old Dominion University on improved MementoFox Firefox add-on
- Linked Data archives: DBpedia & Live DBpedia
- Work with Wikipedia aimed at native Memento support
- Collaboration with IIPC on Memento Aggregator



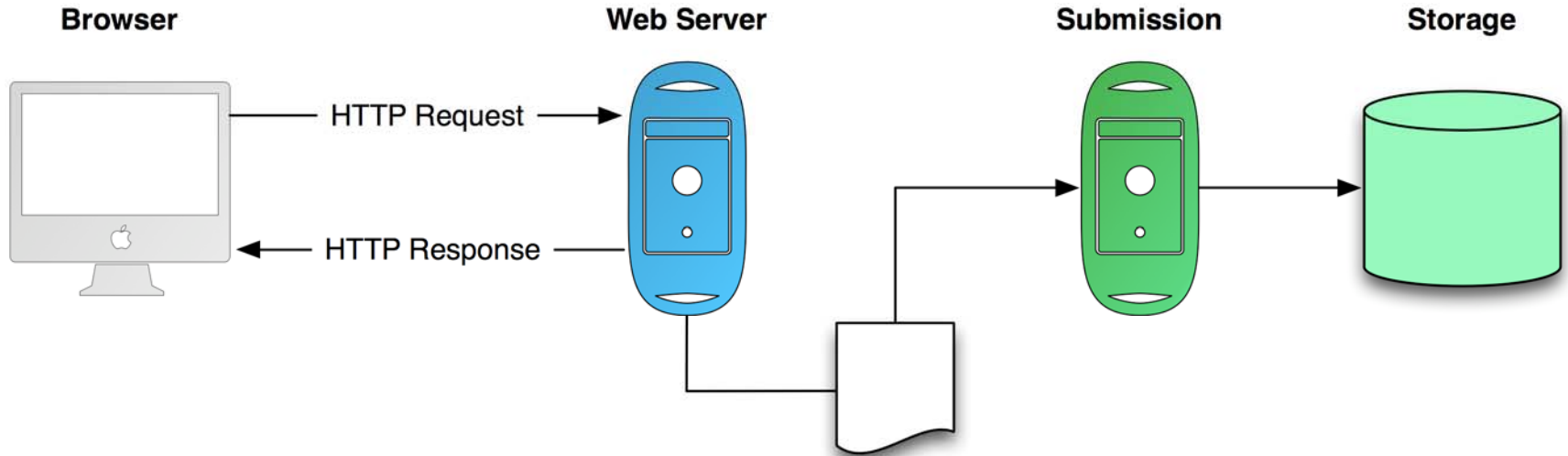
## Transactional Web Archive: Another Approach to Archiving the Web

# Crawl-Based Web Archiving



For example: Heritrix crawler for Internet Archive

# Server-Side Transactional Web Archiving



For example: TTAapache, PageVault, Vignette Web Capture

# LANL Transactional Web Archive Software



- Open source release upcoming
  - 1+ year development
  - Tested in various environments
  - Memento compliant
  - Deduplication optimizations
  - Offload to WARC files
- Of interest to institutions that want to pro-actively archive their Web presence
- Of interest regarding archiving dynamic Web content (see Thursday's Workshop)