

BIG HISTORY @ CERN



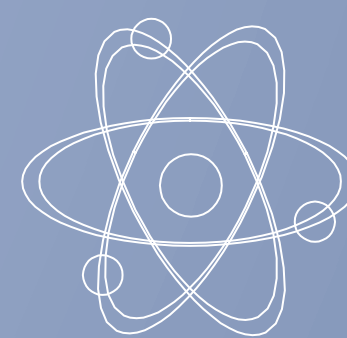
CURRENTLY

Institutions often struggle with keeping information accessible and engaging. This project was sponsored by CERN to document the history of the institution and demonstrate a process of reducing overly complex organization systems.

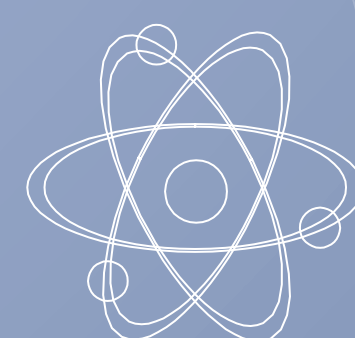
CHRONOZOOM

ChronoZoom aims to help remove information silos in academia and explore the interconnections between science and humanities¹. It is an online, open-source visual history presentation tool which explores the concepts of Big History—the history of all things.

DEVELOPMENT



Ontology Design: Taking the research results from our exploration of the highlights of history at CERN, the knowledge layer was then connected to the Information Layer through careful information management processes.



CHALLENGES

- ❖ Research and collocate materials for all comprehension levels
- ❖ Translate complex concepts in particle physics
- ❖ Design a method to engage the user and explore interdisciplinary connections

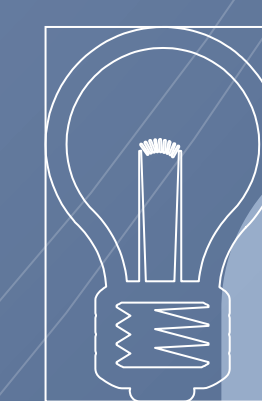
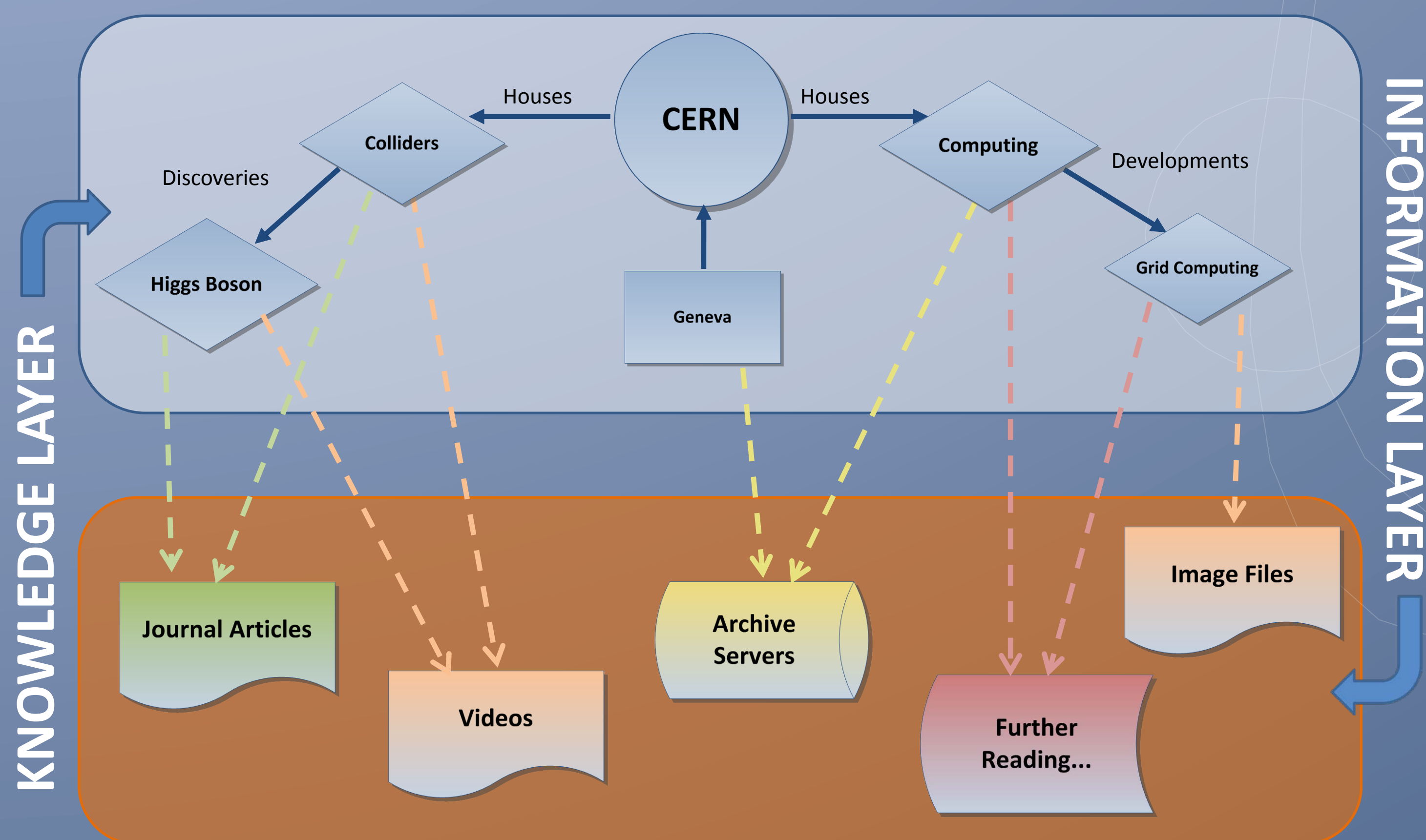
Tsara Borsting, MLIS

“Ontology: Classifying the types of concepts and relationships needed to describe everything in an application domain.”²

RESULTS

An interactive and visually stunning ontology based on an information organization system demonstrating the importance of resource retrieval, management, and collocation techniques to simplify digital asset systems.

USER CENTRIC ONTOLOGY



THINKING AHEAD

- ❖ Digital archive collection management.
- ❖ Tacit knowledge transfer and training for educators and the workforce.
- ❖ Interdisciplinary collaboration and exploration.
- ❖ Semantic web: creating machine-readable code connecting information silos.



¹ ChronoZoom Project: www.ChronoZoomProject.org

² Sowa, John (2000): *Knowledge Representation: Logical, Philosophical and Computational Foundations* (Brooks-Cole, Pacific Grove)

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