

E-quilt prototype: research of experiment in scenario of data sharing

Abstract

Changes are occurring in the scientific communication area, from an analogical perspective to the digital, emerging the e-Science as a new scientific paradigm. This possibility can bring different perspectives of use, reuse and access of scientific research information through the use Digital Information and Communication Technologies and with new possibilities of scientific publication with the rise of different digital formats and media. Development of scientific cycle, open data sharing, metadata patterns, protocols of interoperability and data aggregation models and information systems are necessary this context. Data sharing brings whole news possibilities of convergences, connectivity and collective interactive research. The goal this poster is bring of a relate of an experiment research, called e-Quilt prototype, in development in the PhD thesis, in Graduate Program Information Science, in Federal University of Paraíba, João Pessoa, Brazil e with partner of the University of Tennessee, Knoxville (UTK), through College Communication & Information Science. This research has a Qualitative and Quantitative research approach. The used method is Quadripolar. The quadripolar research dynamics have purpose of an interaction between the epistemological, theoretical, technical and morphological poles. Has this research exploratory and experimental character.

Keywords: Data Sharing. Scientific Data life cycle. Experiment research. E-Quilt prototype. Enhanced publication.

What is e-Quilt?

The research experiment is named e-Quilt prototype. The e-Quilt prototype will be used as an electronic management platform to create scientific papers with enhanced characteristics and sharing data. This experiment aims to develop a scientific paper prototype with extended features, whose ambience will serve as an experimental platform of inputs for the survey and definition interoperability, digital technologies, share data, partners, interoperability and intellectual property issues adopted in the ambience of an Enhanced Publication.

The prototype objective is the development of a scientific paper with enhanced characteristics, with the focus of the collect, pattern, aggregation, curation, management, interoperability and intellectual property of research data generated. So with experiment of a prototype Enhanced Publication, will be able provide the aggregation, convergence, interaction and integration management and dissemination (use and reuse) of research data in the same framework.

Where: universe of the experiment

The **first stage** of experiment was development in Brazil, in the Federal University of Paraíba. The experiment is being development with participation research in Health field in the Department of Clinical and Social Dentistry, Federal University of Paraíba, Campus I, João Pessoa, Paraíba. The data collect is being realizing in Health Department (Prefeitura de Caaporã, Paraíba, Brazil) with students between 5, 12, 15 and 19 years. The project name is the epidemiological survey in School of Oral Health of the City of Caaporã - PB, Brazil, registered at the Research Group on Pediatric Dentistry and Integrated Clinic, the CNPq.

The **second stage** of experiment is been development in The University of Tennessee, Knoxville (UTK) in semester 2015, with goals to improve the prototype with a computational framework able to provide aggregation, sharing, dissemination (use and reuse), as well as, study the metadata patterns, interoperability protocols, aggregation models for data, scientific life cycle and management systems for this scenario. From the tools, standards and experience of DataOne, we will seek to increase the e-Quilt. In this stage is been yet implement tool called DMPTool (Data Management Planning) that will be adopted for management and systematizing data ambience e-Quilt prototype. This stage research we will intend to end in July 2015.

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