

Integrating Knowledge in glossaLAB: A Framework and Critical Review

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Abstract. glossaLAB has progressively transformed from a multilingual glossary platform into a semantically enriched environment for the interdisciplinary co-creation of knowledge. This paper critically examines its development through three major phases: glossaLAB, glossaLAB.edu, and glossaLAB.dixit, and the tight connection to other long-term projects, highlighting the conceptual and technical transitions involved. Theoretical underpinnings that frame knowledge integration in glossaLAB are analysed, and a conceptual framework is proposed that draws on established metrics of epistemological diversity, integration, veracity, and clarity. Rather than reporting empirical findings, a validation strategy is presented that will support the development of a sustainable integration model within the glossaLAB.dixit. This paper thus contributes to ongoing debates on how conceptual systems can be evaluated and guided across disciplinary frontiers in digital knowledge infrastructures.

Keywords: Knowledge Integration, Interdisciplinary Platforms, Epistemological Diversity, GlossaLAB, Semantic Modelling, Conceptual Systems.

1. Introduction

As the complexity of scientific and societal challenges increases, the need for platforms that enable meaningful integration of heterogeneous knowledge becomes ever more pressing. Although many digital infrastructures support data sharing and repository linking, few directly addresses the epistemological challenge of building conceptual coherence across disciplinary boundaries.

GlossaLAB is one such initiative. It originated in glossariumBITri –developed since 2009– as an open multilingual interdisciplinary-glossary platform devoted to the understanding of information, enabling collaborative edition and publication according to the model discussed in [1, 2, 3]. The concept of *interdisciplinary-glossaries* (ID-G) represented itself an innovative approach to the problem of merging different knowledge frameworks in interdisciplinary settings. Though terminological convergence might be an ideal of knowledge integration, the interdisciplinary elucidation of the knowledge systems merging into the understanding of a subject that crosses different disciplines (as in the interdisciplinary study of information) also exhibits terminological divergence [3]. Thus, ID-G focused on both epistemological