
BREAL in real life : the OJV use case

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Abstract

BREAL (Big data REference Architecture and Layers), as a European reference architecture for Big Data, aims to guide Big Data investments by NSIs. It also helps the development of solutions and services in order to be standardized and shared within the European Statistical System. In this way the solutions using Big Data in statistics production processes can be compared and shared.

BREAL was built within the ESSNet Big Data 2 Enterprise Architecture work package, in relationship with other work packages dedicated to implementing specific use cases on “web intelligence” pipelines (online job vacancies, enterprise characteristics) and “Sensor data” ones (smart energy, tracking ships). Each of these experimental initiative brought concrete materials and effective examples of Big Data statistical processes that were set up, either at national or European level, with the scope of being implemented in a growing number of European Member States.

Among these different initiatives, the goal of the online job vacancies (OJV) project is to produce statistical estimates for online job vacancies and especially to develop methodologies, prototypes and capacities which can be integrated into statistical production. Joint work done between the OJV and BREAL working groups highlight the way empirical implementation and theoretical modelisation can feed each other.

Both OJV and BREAL projects firstly work together in a “top-down” way to verify the usability of the generic BREAL representation to describe a specific concrete case. This work was secondly completed in a “bottom-up” approach in order to define shareable and reusable components and services used in OJV processes, by using BREAL model. Based on several implementation levels (European with the CEDEFOP project, national ones), the OJV project provided a rich and advanced case study to assess the relevance of the BREAL model.

Keywords

BREAL ; Big data ; Web Intelligence

Model (please specify name of at least one of models (i.e. GSBPM, GSIM, GAMSO and CSPA) that your abstract is related to)

BREAL : Big Data REference Architecture and Layers ; GSBPM