Invenio is an integrated digital library system originally developed at CERN to run the CERN Document Server, currently one of the largest institutional repositories worldwide. It was started over 15 years ago and has been matured through many release cycles.

Invenio is a GPL2 Open Source project based on an Apache/WSGI+Python+MySQL architecture. Its modular design enables it to serve a wide variety of usages, from a multimedia digital object repository, to a web journal, to a fully functional digital library. The development strategy used to implement Invenio ensures it is flexible in any layer. Being based on open standards such as MARCXML and OAI-PMH 2.0 its interoperability with other digital libraries is guaranteed.

Being originally designed to cope with the CERN requirements for digital object management, Invenio is suitable for middle-to-large scale digital repositories (100K~10M records). Invenio has been chosen by several big institutions or projects. Among them it is about to be used to serve the SPIRES High Energy Physics information through the recently launched INSPIRE service, that will become the repository of reference for high energy physics. It is used by the EPFL (the Ecole Polytechnique Fédérale de Lausanne) to power Infoscience, their institutional repository. ADS (the SAO/NASA Astrophysics Data System) has expressed interest to move to an Invenio-based platform, while starting a collaboration at the data level between astrophysics and high energy physics worlds. For example in Spain, Invenio is already used by the Dipòsit Digital de Documents (DDD) (Universitat Autònoma de Barcelona) and by the “Repositorio Digital de la Universidad de Zaragoza” (University of Zaragoza). Recently the European Commission has chosen Invenio to become part of two important projects D4ScienceII, and OpenAIRE, with the latter having the goal to set up a portal where all the EC funded research project documents will be available. This presentation will introduce the different features of Invenio, their usage in the CERN context and how other institutions and projects are also driving some of its development.