A Modern Digital Library System for Grey Literature

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http://invenio-software.org
What is Invenio?

Free, open-source (GNU GPL) repository software

- User
- Approve loan items
- Share
- Submit
- Search
- Comment, review
- Subscribe

- Librarian
- Send overdue letters
- Check
- Edit
- Import, harvest
- Merge
- Convert
- Extract keywords
- Export
- Monitor
- Script
- Customize

- Admin

Jérôme Caffaro & Samuele Kaplun – CERN Document Server team

GL12 - Twelfth International Conference on Grey Literature [7th December 2010]
1954 CERN (European Center for Nuclear Research) is born. 12 initial member states (20 + 15 observers today; About 10'000 persons; > 500 universities)

1989 Tim Berners-Lee invents the Web at CERN.

1991 SPIRES (SLAC) first database available on the web.


1993 CERN Preprint Server on the Web: institutional repository.

1996 CERN Library Server (weblib): added books, periodicals and "other material".
2000 CERN Document Server: multimedia material, internal notes)


2006 changed name to CDS Invenio

2007 started collaboration with SPIRES

2008-2010 many new features, optimizations, change of development model and code stabilization for Invenio 1.0

started collaboration with NASA-ADS
Grey literature is a major channel of communication in the High-Energy physics community[1]

CERN is the world's largest particle physics laboratory, and has developed Invenio as a mean to archive produced material and make it accessible to the largest possible audience

Feature-Full Digital Library

Librarian & Admin tools

Collaborative tools

Multi-language

Fast search + Browse

Alerts (emails, RSS)

Commenting + reviewing

Multiple files formats support

Circulation

OAI-PMH MARCXML
OpenURL XSLT EndNote
BibTeX OpenSearch

Standards support

Web journals, OCR, and more...

For Grey Literature too!

INVENIO

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A case study: CERN Document Server (powered by Invenio)

• Reports, notes

• Slides, posters

• Photos, videos (movies, rushes, lectures, etc.) & audio archives

• Museum objects

• Agreements, contracts

• etc.

Data: 2nd November 2010
• MARCXML as core metadata format
  • Flexible to adapt to about any material
  • Understood and loved by our librarians
  • Same powerful cataloguing tool to curate grey and non-grey material

• Flexible metadata-formatting layer
  • Map your material to any HTML/XML representation
• Customizable workflows engine
  • Handle complex workflows
  • Living documents are immediately searchable and made available in their dedicated collection
  • Support for authors or community-based revision of files and metadata
  • Possibility to integrate with commenting system
Invenio for grey literature

• Powerful search engine
  • Support large repositories
  • "Google-like" search speed
  • Simple and advanced search syntax.

• Collaborative tools
  • Commenting and reviewing system
  • Notifications (email, RSS) of new material or new comments
  • Support for groups and sharing of material
• Interoperability
  • Harvest and disseminate using OAI-PMH
  • Multiple/customizable exports
  • SWORD export (coming soon)

• Integrated digital library
  • One system: IT infrastructure simplified; easier maintenance
  • Does not cost more to actively support grey material in addition to other library material
• Invenio is designed from the ground for a community heavily relying on grey literature.

• Invenio is an established, open-source software for diverse medium to large sized repositories.