Effective Knowledge s.r.l.

Success Story

ECLAP
European Library of performing arts (http://www.eclap.eu)

BEST PRACTICE NETWORK and SERVICE PORTAL

ECLAP provides to institutions a set of tools and services with high added value such as

- **Networking** and continuous link with colleagues, working groups, blogs, forums, mailing lists, etc.
- **Recommendation to users**, tips, social networks, connections, etc.
- **Content management**, publishing and promotion, IPR management , etc.
- **Content aggregation tools**, playlists, files, classes, annotations, etc..
- **Facilities for research**, indexing, search on multilingual metadata, technical metadata, QR codes, location-based content
- **Social Graph tool** explore, play, surf relations among users and content.
- **Access and organization of content** on mobile, Content Organizer app available for iPhone/iPad, Android and Windows Phone.

situation

The goal was to create an European digital library of performing arts that were to include an enormous variety of artistic contents from international institutions, Universities, foundations, museums, art schools and make them available on a single platform able to promote learning and research in the field of Arts and entertainment, facilitate European cultural enrichment and promote it.
These contents belong to different areas: theatre, dance, music, cinema and movies, shows and performances, costumes, sketches, designs, texts or posters, lectures, master classes, music sheets, instructional materials; the contents are available as: audio and video recordings, documents, images, animations, annotations, 3D reconstructions, interactive content, e-books, multimedia content.
The Effective Knowledge team, with more than 15 years of experience in International research projects and innovation in the field of artificial intelligence, knowledge management, data mining, social collaboration, management and distribution of intelligent content and social media, has been tasked to realize a Web platform that was a real "live" workshop that, in addition to providing services to the institutions in order to promote their content and their activities, would promote the contents on Europeana digital library sponsored by the European Commission that indexes millions of cultural content (*http://www.europeana.eu*).

the challenge

Among the challenges that the position required:

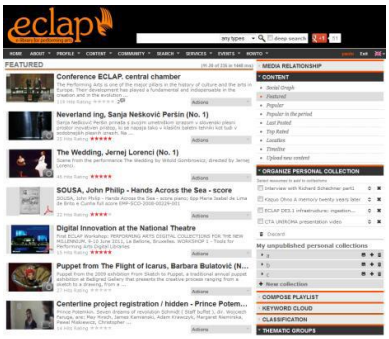
- ✓ raise tens of thousands of different content types, languages and formats from different international institutions and make them available in a single platform
- ✓ providing services to institutions in order to promote their own activities and contents
- ✓ promote contents on Europeana and via LOD
- ✓ promote content on social networks

eBrain:
• accelerates the creation, capitalization and sharing of knowledge;
• establishes and strengthens the community cohesion;
• promotes the sharing of information and ideas between users;
• improves brand awareness and customer loyalty;
• supports users on a wide range of devices, browsers and operating systems.
The solution was recently selected by the Agency for disseminating innovation technologies Agency for the promotion of Innovation Technologies of the Presidency of the Council of Ministers in the project "Italy of Innovators".

our answer

Effective Knowledge has developed a platform able to collect more than 120,000 separate contents from over 35 international institutions and make them available to a community of approximately 2,200 registered users distributed throughout the world, in 13 languages.

The platform has been designed in order to give broad support to cultural institutions in the field of the performing arts by leveraging the latest technologies for managing digital contents in order to satisfy the most different needs: dissemination and promotion to Europeana, to social media, promotion of contents on external web portals (embed), export metadata in linked open data, tools for education and distance learning.



For that, ECLAP was conceived not only as a Best Practice Network but also as a provider of contents and services to the Users and to the partners. And, boing ECLAP a Best Practice Network, the platform consists of a certain number of working groups divided into three main thematic areas:

- ✓ digital libraries on the performing arts
- ✓ management of intellectual property
- ✓ teaching and learning the performing arts in the digital age

ECLAP through forums and blogs, analyzes the State of the art and identifies best practices for creating guidelines to cope with the technical and strategic issues in the sector, on the other hand exploits the use of advanced technologies and solutions for social media and semantic computing in order to enrich the contents (with technical descriptions, translations into various languages, geographical location ...), aggregates and distributes content on multilingual performing arts on any platform and device.

The platform is able to highlight the relationships between published contents, concepts and Users, thanks to the use of the Social Graph tool, an application that enables you to view and navigate between ECLAP contents. An interactive graphic that shows for each object (User, group, content, etc.) the associated items, according to the existing relations in order to give the user a much more intuitive navigation, and social

membership.
Any content, taxonomy term, group, and user annotation on ECLAP is also available in a Linked Open Data (LOD) and can be accessed from any external tool via URI.

To resolve the problems relating to inconsistencies in names and places, ECLAP service has been implemented a service that allows the resolution of unique names of celebrities and of geographical names (cities, provinces, regions, States, etc.). The problem has been solved using analysis technologies of natural language that identify and extract from the metadata names, identify synonyms and look for the unique name on external databases like dbPedia for names of famous persons and Geonames for locations.

ECLAP provides Users with a set of tools that facilitate the networking and connection with social media and gives you the chance to create rich contents and aggregate in playlist, collections, e-learning courses, annotations and synchronization of different audiovisual segments using MyStoryPlayer.

With MyStoryPlayer Users can annotate and/or links between segments of audiovisual content (images, video, audio) and determine video sequences, synchronize the execution of video segments, create annotations of an audiovisual segment using another segment, etc. All through a simple online tool.

Once submitted, annotations and/or links can be shared with Users and be run by MyStoryPlayer that allows you to navigate between the various annotations and relationships between annotated content.

This approach allows you to create multiple versions of multimedia contents and annotations that can be used both in order to practice than for educational purposes.

Also through a Timeline you can navigate between the individual dates associated with the contents published on

Thanks to the publication of the Athenaeum Theatre Archives our collections are now fully available and searchable online through ECLAP and Europeana. ECLAP is not only a springboard for digitization of our audiovisual heritage, but has also led to the enrichment of our metadata records. Moreover thanks to MyStoryPlayer, our teachers and students have access to CTA audiovisual materials for their courses at fingertips.

the portal as the publication date on ECLAP, date of the show, publication, etc.

Thanks to IPR WIZARD tool contents owners in ECLAP can define and manage the licenses associated with their contents and can set in detail the restrictions and permissions relating to the access and use of contents.
ECLAP also allows to trace and have access to a complete set of statistics and analysis at different levels. General statistics on accesses, downloads and uploads, about queries, the user's actions, general social network analysis and networking, group statistics on content enrichment, personal stats, etc.

Thanks to the Content Organizer App available for free, ECLAP contents can be downloaded and used on iPhone, iPad, iPod, Android and Windows Phone 7.

benefits for the User

- ✓ increase their visibility
- ✓ promote their activities and their contents
- ✓ organising e-learning courses
- ✓ an extensive archive available to design and implement educational activities related to the performing arts
- ✓ a personal web page where to upload your own self-managed material, participate in working groups, communicate with experts, etc.
- ✓ promotion of own contents on Europeana and social media

The chance for Users to interact with each other and the content is great!

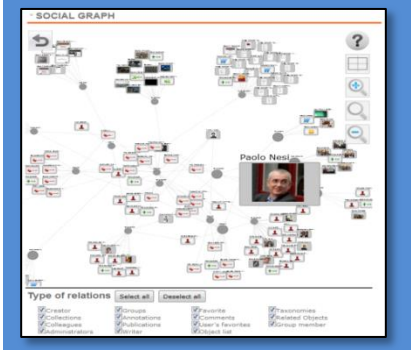
Technologies used

ECLAP is based on Effective Knowledge's eBrain solution of. e-Brain is the platform that leverages the technologies of artificial intelligence in order to improve organizational performance and training by integrating tools and solutions of: knowledge management, data mining, social collaboration, project management, intelligent contents and social media.

e-Brain is a solution suitable for different applications such as:

- ✓ best practice networks, knowledge management and business intelligence
- ✓ social media network, collaborative work on the

The Europeana Widget is well designed and do not distract Users from the ECLAP page, but at the same time gives you a chance to explore its online heritage.



contents and their distribution
- ✓ social learning management system with any type of content and accessible on any device
- ✓ enterprise social network, project management
- ✓ obtaining and managing skills and semantically organized information
- ✓ community management for institutions, companies and public bodies
- ✓ WebTV, IPTV users enabled
- ✓ support for contents distribution for PC and mobile devices

e-Brain accelerates the stages of acquisition, distribution and capitalization of knowledge, establish and strengthen the cohesions within the practice community, promotes the sharing of information and ideas between Users, the emerge of individual and team skills, improves users' loyalty and awareness in the brand.

TECHNOLOGIES:

- ✓ Drupal
- ✓ Moodle
- ✓ MySQL
- ✓ RDF Store
- ✓ Solr
- ✓ SPARQL
- ✓ AXCP AXMEDIS
- ✓ Natural Language Processing
- ✓ GroNames
- ✓ dbPedia
- ✓ Java Script

eBrain ADDITIONAL MODULES:

- ✓ *Social Graph*, for viewing and navigating of contents and relationships
- ✓ *MyStoryPlayer* for handling multi-camera views, used for displaying multiple views, events, etc.
- ✓ *Suggestions and reccommendations*,
- ✓ *Linked Open Data*, for the export of contents and metadata as Linked Open Data
- ✓ *QR code*, access and download of content with QR code
- ✓ *Normalization dates*, date search in texts and documents in order to normalize their values to standard formats and order these documents on a

timeline

- ✓ *resolving geographic locations*, geographical locations search form associated with their geographical location on the map accessible via web and mobile AXMEDIS AXCP, scalable support based on GRID for automating back-office processes
- ✓ *resolving names*, name of people and celebrities search form in texts and documents that establishes a link with the same users or with their pages on dbPedia
- ✓ *Content Organizer*, mobile Content Organizer tool for iPhone, iPad, Android for access to content, chat, access via QR, etc.
- ✓ saving and loading of *SCORM* contents to export and import to/from other systems
- ✓ *management of surveys and questionnaires* during and at the end of residential or remote events, reviews, opinions, and verification, certification etc.
- ✓ *CAS-DRM*: Advanced Control System and protection of content, includes IPR Wizard.
- ✓ *eLearning*, creation and advanced management of courses and training contents, questionnaires and Users complying with regulatory requirements
- ✓ *Europeana Module* for automatic connection and metadata exports towards the European Digital Library

REFERENCES:

ECLAP: http://www.eclap.eu