

# Anatomy of a Cross Media Best Practice Network for Media Aggregation and Fruition

European Collected Library of Artistic Performance

<http://www.eclap.eu>

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# Overview

- Objective and overview ←
- Networking & Tools
- Content & Tools
- ECLAP Architecture

## FEATURED

(1-10 of 192 in 12365 ms)

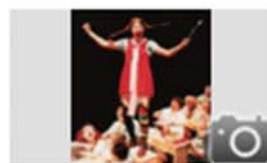


### A Cinema Lesson by Carole Roussopoulos

Swiss video director Carole Roussopoulos talks about her work and her life.

12 Hits Rating ★★★★★

Actions



### Scene from the performance Pippi No.2/2

Scene from the performance Pippi

2 Hits Rating ★★★★★

Actions



### Trasmissione forzata, 4° puntata

Dario Fo e Franca Rame tornano in Tv nel 1988, un quarto di secolo dopo essere stati cacciati da "Canzonissima", e ne mimano l'occupazione con una compagnia di

teatranti fra i quali Enzo

6 Hits Rating ★★★★★

Actions



### Lucinda Childs / Maggiodanza THE CHAIRMAN DANCE...

Video with excerpts from the dance performance "The Chairman Dances - Largo - L'Uccello di Fuoco" by Lucinda Childs for Maggiodanza within Festival Fabbrica Europa 2005 / choreographies: Lucinda

14 Hits Rating ★★★★★

Actions



### film dokumentalny pt. Okno pamięci

film dokumentalny pt. Okno pamięci Leszka Mądzika, w reżyserii Andrzeja Matyni, którego premiera odbyła się w 1989 roku

1 Hits Rating ★★★★★

Actions



### Scene from the performance Bartleby, the Scrivener

Bartleby The Scrivener is a surprisingly current short story by the American classical writer, Herman Melville, known almost exclusively for his novel Moby Dick. Bartleby, or "the most famous

8 Hits Rating ★★★★★

Actions

▶ MEDIA RELATIONSHIP

▼ CONTENT

- *Featured*
- *Popular*
- *Popular in the period*
- *Last Posted*
- *Top Rated*
- *Location*
- *Upload new content*

▶ ORGANIZE PERSONAL COLLECTION

▶ COMPOSE PLAYLIST

▶ ROOT

▶ KEYWORD CLOUD

▶ QUERY CLOUD

▶ CLASSIFICATION

▶ GROUPS

▶ POTENTIAL COLLEAGUES

▶ STATISTICS ON YOUR ACTIVITIES

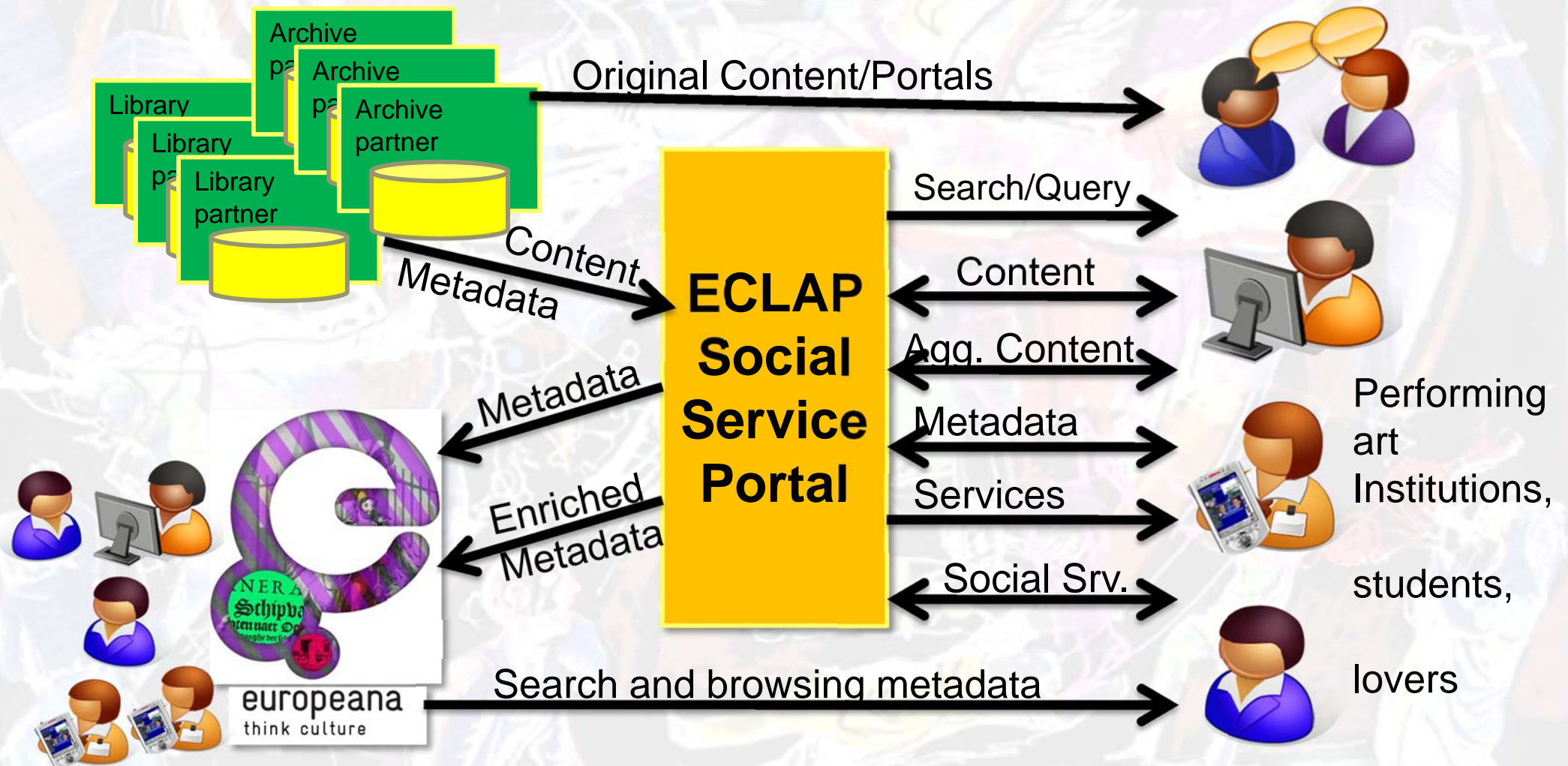
▶ STATISTICS ON YOUR GROUPS

▶ STATISTICS ON DOWNLOADS

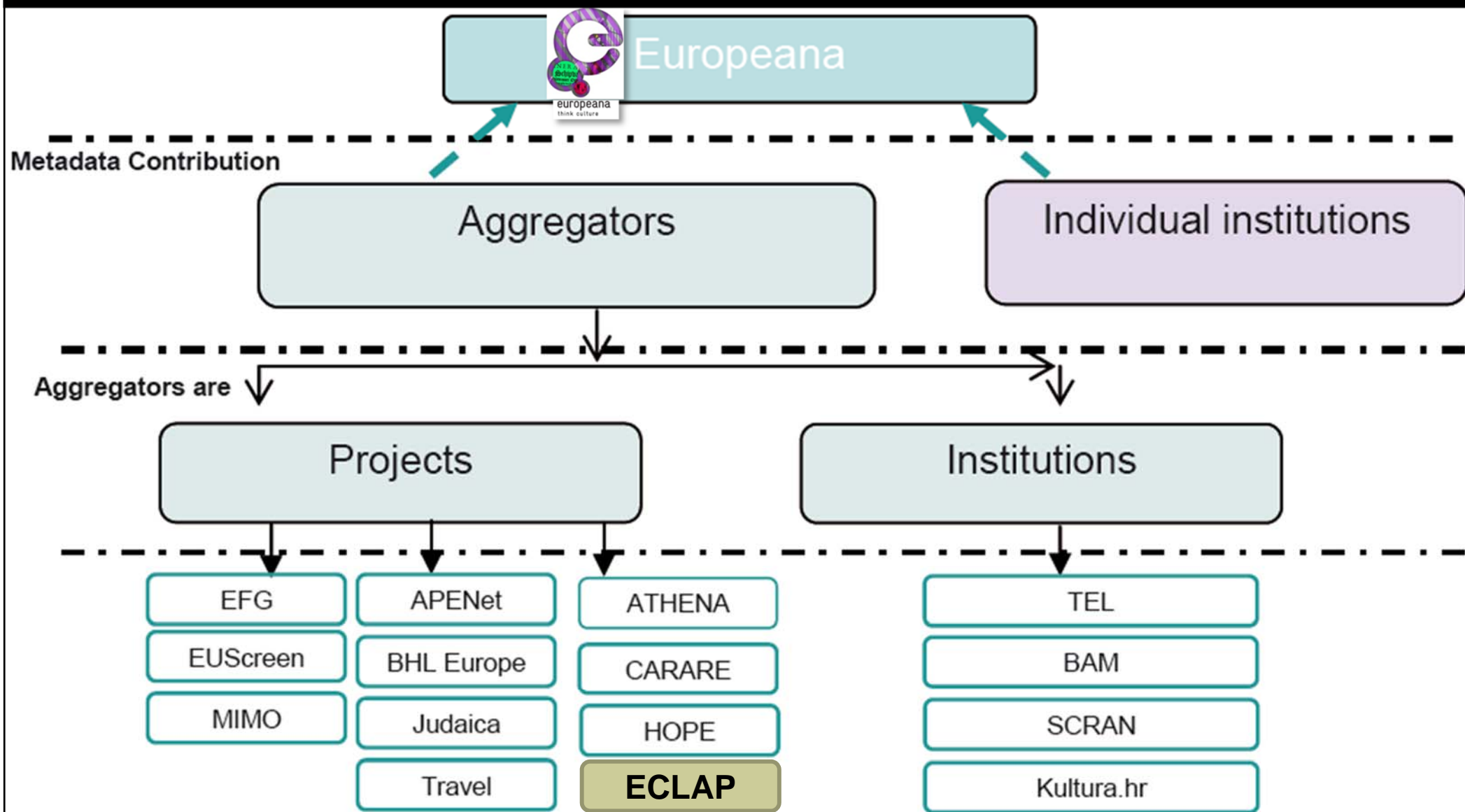
▶ STATISTICS ON QUERIES

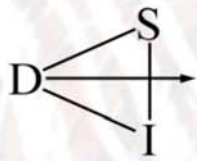
▶ STATISTICS ON ACTIONS

# Europeana vs ECLAP



# Europeana





CENTRO TEATRO ATENEIO  
CENTRO DI RICERCA SULLO SPETTACOLO



museum



SAPIENZA  
UNIVERSITÀ DI ROMA

ESMAE

POLITÉCNICO  
DO PORTO



UNIVERSITY OF AMSTERDAM



bellone  
maison du spectacle



INSTITUTE  
OF POLISH  
CULTURE  
University of Warsaw  
Faculty of Polish Studies

maa  
museum of  
archaeology &  
anthropology



University of Glasgow | Department of  
History of Art



Fondazione RINASCIMENTO  
digitale  
nuove  
tecnologie  
per i beni  
culturali

FILMS DE  
FEMMES



Diputació  
Barcelona

Institut del Teatre

mae

Centre de Documentació  
i Museu de les Arts Escèniques



arteia

AXMediaTech  
Content Management Technologies

országos  
színháztörténeti  
múzeum  
és intézet



Associazione Culturale Onlus  
ICT Ad Duas Lauros  
www.duaslauros.it - duaslauros@gmail.com

Teatro  
Napoletano

DIGITAL CULTURE



ACCADEMIA NAZIONALE  
DI SANTA CECILIA  
Fondazione

DARIO FO E FRANCA RAME

irtem | istituto di ricerca  
per il teatro musicale

FONDAZIONE  
FABBRICAEUROPA  
PER LE ARTI CONTEMPORANEE



UNIVERSITY  
of DERBY



NATIONAL  
AUDIOVISUAL  
INSTITUTE

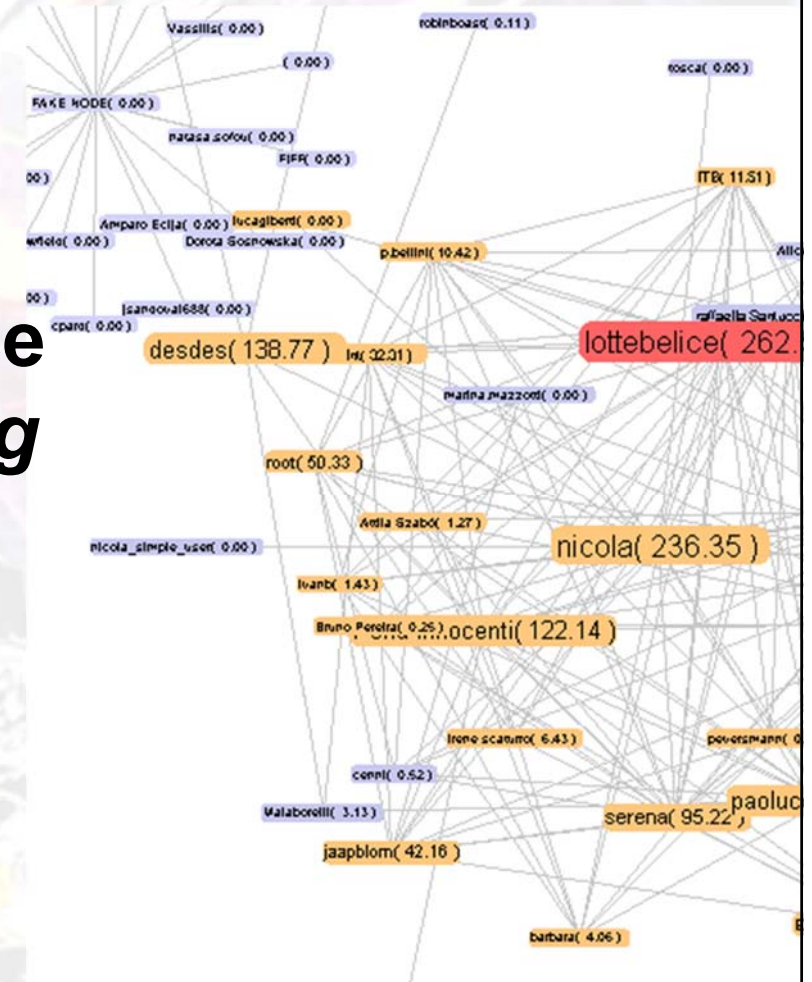
INSTYTUT  
THE GROTOWSKI  
IM. JERZEGO  
GROTOWSKIEGO

digiLab  
medioteca delle scienze umanistiche

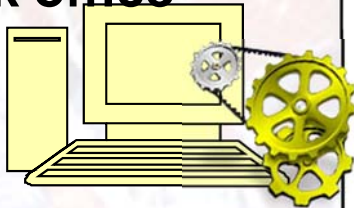
UNISA  
university  
of south africa

# ECLAP Social Service Portal

- **Content aggregators** to
  - Aggregate and Enrich content
  - prepare content for Europeana, and
  - distribute content to ECLAP users
- **Working Groups on best practice reports about *tools for performing art content for*:**
  - Education and Training
  - Intellectual Property and business models
  - Digital libraries and archiving



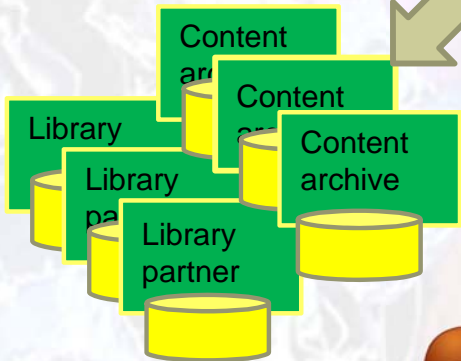
Automated  
Back office



ANY content



ANY content



UGC, web page,  
comments



Metadata



-PC, MACos, linux, ...  
-iPhone, iPod,  
Windows Mobile, .....

Search/Query

Agg. Content  
Content  
Services





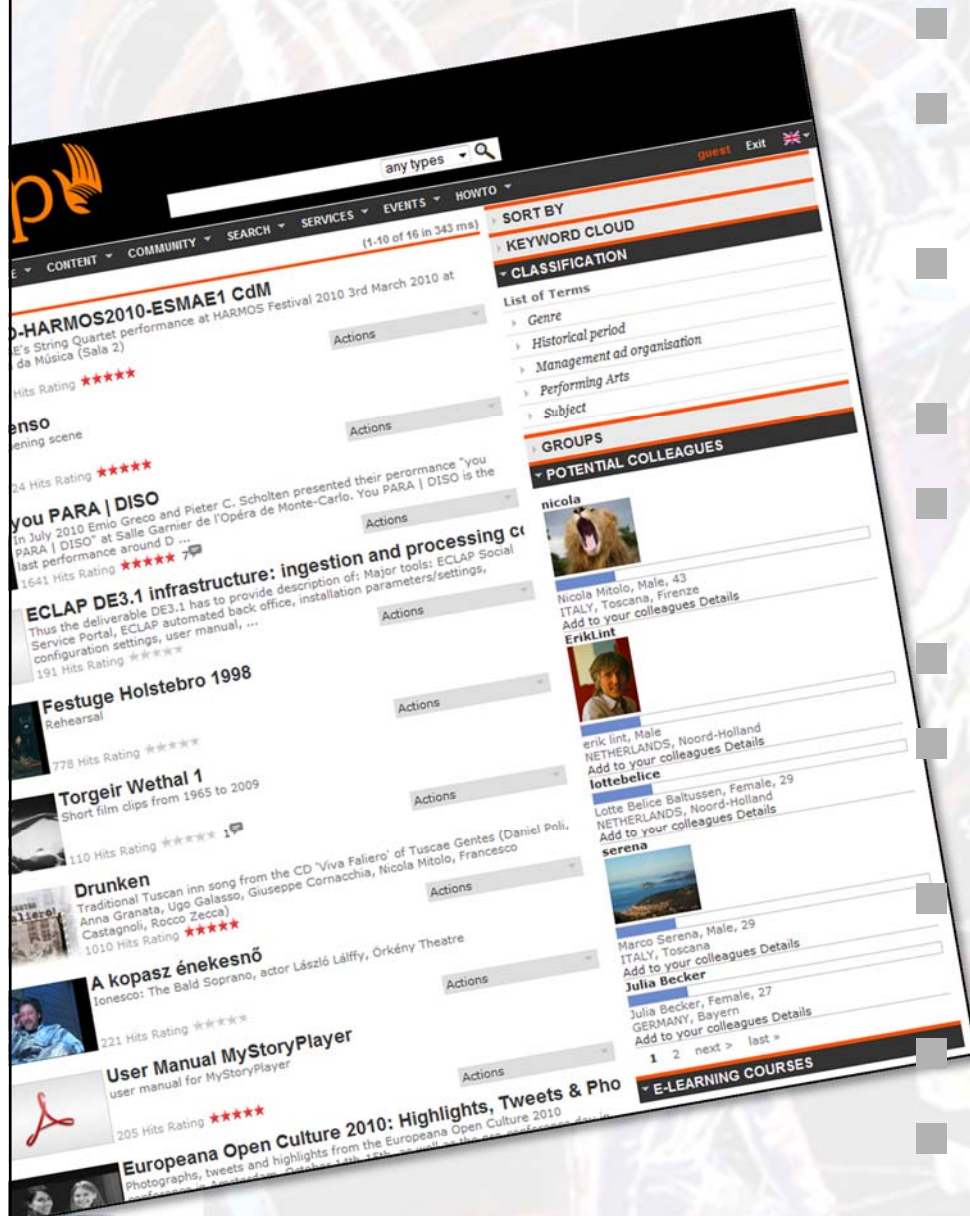
# Numbers

- >30 partner from Europe + Chile, Russia, South Africa
- >100.000 content, 300.000 items
- Descriptive metadata in 13 languages
- Interface in 21 languages
- Accessed from 184 Countries
  - Mainly from: Italy, UK, Spain, US, NL, B, SI, Hu, Fr, Pl, Pt, Gr, D, Bz, Ind, Sw, Au, Rs, Ca, etc.
- More than 35 groups
- More than 500 different file formats

# Overview

- Objective and overview
- Networking & Tools ←
- Content & Tools
- ECLAP Architecture

# ECLAP Social Networking



- 35 groups
- User groups, discussion, forums, mailing lists
- Connection with social network for share: Authentication, social icons
- Contact gathering
- Suggestions and recommendations to ECLAP users
- Events setup and management
- Mailing newsletters, notifications, suggestions ....
- Custom look and feel with group designer
- Embedding content on third party
- ...

GROUP OBJECTS LIST: DEVELOPMENT



ECLAP Kick-off meeting partners photo

Photo of the lock-off meeting with all ECLAP project partners (University of Florence, 13th July 2010)

1518 Hits Rating  2

Actions



playlist CTA

A demo playlist using CTA video content

225 Hits Rating

Actions



ECLAP Best Practice Network User Manual, This porta...

User manual of the ECLAP BPNET, updated version. It includes user manual of the tools on the ECLAP portal and mobiles devices.

4559 Hits Rating

Actions



Taormina theatre

Photo of Taormina theatre

49 Hits Rating

Actions



Europeana v1.0 - User and Functional Testing. Final re...

Europeana v1.0 - User and Functional Testing. Final report

29 Hits Rating

Actions



MINERVA - H

MINERVA - Handb

20 Hits Rating

Actions



Malan Bredemeyer

Malan Bredemeyer

24 Hits Rating

Actions



EuropeanaC

EuropeanaConnect

13 Hits Rating

Actions

- CONTENT
- ORGANIZE PERSONAL COLLECTION
- ROOT
- KEYWORD CLOUD
- QUERY CLOUD
- CLASSIFICATION
- GROUPS
- STATISTICS ON YOUR ACTIVITIES
- STATISTICS ON YOUR GROUPS
- STATISTICS ON DOWNLOADS
- STATISTICS ON QUERIES
- STATISTICS ON ACTIONS
- SOCIAL NETWORK ANALYSIS
- WHO ONLINE
- DEVELOPMENT
- USER SWITCH

Indows Phone Marketi, have a good ECLAP mo



Il primo miracolo di Gesù Bambino - camera frontale



RELOAD     ACTIONS

RELATED OBJECTS BY TEXT

- Gesù e le donne - 24 maggio 2007
- Gesù e le donne - 12 dicembre 2006
- Gesù e le donne - 27 dicembre 2006
- Gesù e le donne - 27 gennaio -2007
- Gesù e le donne - 8 gennaio 2001
- Gesù e le donne - 30 gennaio 2001

Dear root, you have been entitled to be a Query Validator. If this role has been assigned to you erroneously please send an email to info@eclap.eu. If you are interested in helping us to improve the query service, please tick ALL the contents you consider relevant to the performed query. Each tick is automatically registered. You can change them as you like. Thanks a lot in advance!

Sort by Relevance Sort by Upload Sort by Update

SEARCH RESULTS (1-10 of 105599 in 2433 ms)

**Manifestazione "Il Treno della Memoria" e relativa ca...**  
 Fotografie a colori della manifestazione itinerante "Il treno della memoria" sulle stragi di Stato, da Brescia a Roma, svoltasi il 12 e 13 dicembre 1999.  
 7 Hits Rating

**Mistero buffo - 1969, Giullarata popolare**  
 Lettera a Dario Fo dell' "Asociacion cultural Caballo de Bestos" di Madrid (Spagna): invito a presentare "Mistero buffo" al Primo Festival Internazionale di Teatro a Madrid (Spagna).  
 5 Hits Rating

**Gli arcangeli non giocano a flipper - 1959, Commedia i...**  
 Manifesto della commedia in tre atti "Gli arcangeli non giocano a flipper" di Dario Fo, messa in scena dalla Comedie de l'Ouest (Francia) in varie città francesi. Les Archanges ne jouent pas au ...  
 3 Hits Rating

**Partecipazioni, saggi, interventi e articoli di Dario Fo e...**  
 ...dedicati a Darwin.

Il primo miracolo di Gesù Bambino - camera frontale

**METADATA**

Metadata languages

**Title**  
Il primo miracolo di Gesù Bambino - camera frontale

**Subject**  
Prologo del Primo miracolo di Gesù bambino. D. Fo Il primo miracolo di Gesù bambino in idem, "Storia di una tigre e altre storie", Milano, La Comune, 1980, pp. 63-120.

**Description**  
Prologo del Primo miracolo di Gesù bambino, estratto dei primi 5 mn. Fo accorda la recitazione sulle reazioni del pubblico e prepara gli spettatori a riconoscere gli appuntamenti logici della storia che sta per narrare. Cfr. D. Fo, Manuale minimo dell' attore, Torino, 1987.

**Technical**

**Classification**

**IPR information**

**Location**

**ACTIONS**

**CONTENT**

**COMMENTS**

**POST NEW COMMENT**

Your name: root

Subject:

Comment: \*

**SEARCH FILTER**

- Resource category
- Format
- Type
- Group
- Classification - Genre
- Classification - Historical Period
- Classification - Management & Organization
- Classification - Performing Arts
- Classification - Subject
- Creator
- Content language
- Duration
- Video quality available
- Device
- Published by
- Original metadata language
- Upload time
- Solr Query

**CONTENT**

- Featured
- Popular
- Popular in the period
- Last Posted
- Top Rated
- Location
- Upload new content
- Search Results

**ORGANIZE PERSONAL COLLECTION**

**ROOT**

**KEYWORD CLOUD**

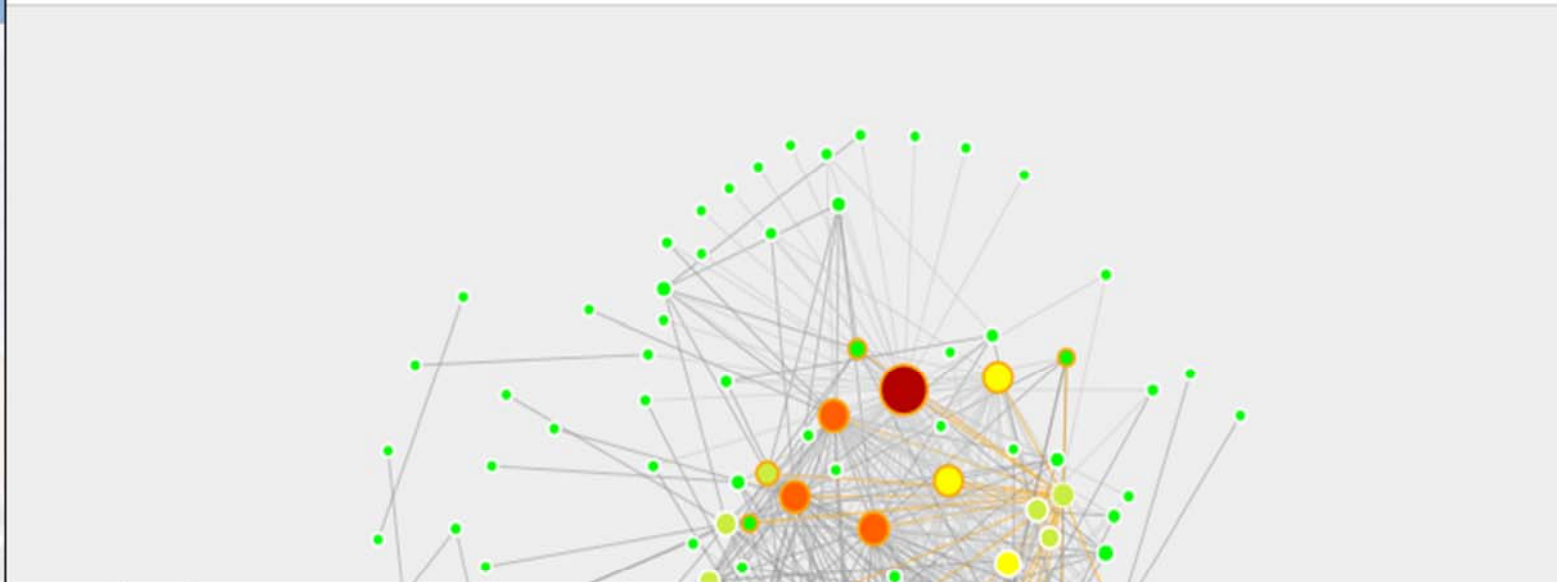
**QUERY CLOUD**

**CLASSIFICATION**

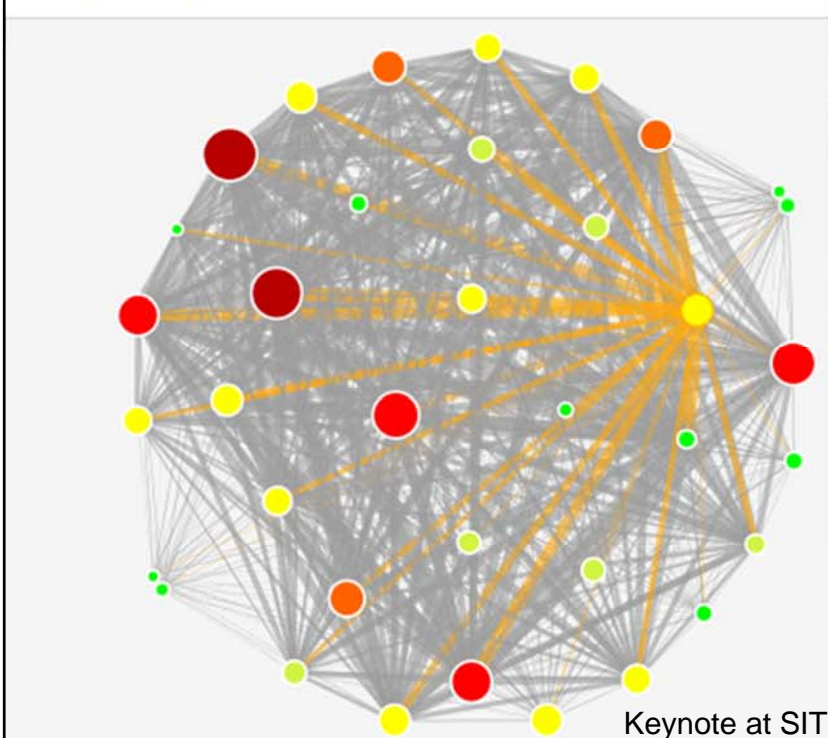
Group Designer

# Social Network Analysis

## User Metrics



## Groups Graph



Several Metrics for  
- Users  
- Group Coordinators

## Connection

Nodes: 1117  
Links: 418  
Isolated nodes: 1002

In this graph nodes represent the users of the entire social network and edges indicate friendship. The radius of nodes depends on the value of the metric. Click on the node which you want to know.

Links length: 120

Charge: -100

Gravity: 0.2

Friction: 0.4

Enter the rate of connected nodes to display in the graph, according to the metric value.

100

Go

All nodes

Back

## Color map

Color	Value range
Green	0 - 10.67
Yellow	10.67 - 21.33
Orange	21.33 - 32
Red	32 - 42.67
Dark Red	42.67 - 53.33
Black	53.33 - 64

# Recommendations

		Recipient of the suggestions		
		User	Content (played by a user)	Group (leader or members)
<b>Suggested elements</b>	<b>Users</b>	Proposing to a user possible colleagues / friends $D(U(s,d);U(s,d))$	--no sense--	Proposing at a group responsible possible interested colleagues to be invited
	<b>Contents</b>	Proposing to a user possible interesting contents	Proposing at a play of a content similar content items $D(C(s);C(s))$	Proposing at a group members possible interesting content (not much different with respect to C-C combination)
	<b>Groups</b>	Proposing to a user possible interesting groups	Proposing at a play of a content possible interesting groups in which similar contents are discussed	--no sense--
	<b>Ads</b>	Proposing to a user possible interesting ads	Proposing at a play of a content the possible interesting ads	Proposing at a/all group member/s possible interesting ads

# Recommended Colleagues

## ▼ POTENTIAL COLLEAGUES

### rosariaguerra



rosaria guerra, Female, 41  
ITALY, Lazio  
Spoken languages: Italian  
You have a similar profile  
Are you interested in getting in contact?  
Add to your colleagues Details

### Cristina Riccati

Cristina Riccati, Female, 42  
ITALY, Piemonte, Torino  
Spoken languages: English, French  
You have a similar profile  
Are you interested in getting in contact?  
Add to your colleagues Details

### carolinamadriz

Ana Carolina Madriz Zuniga  
COSTA RICA  
Spoken languages: Catalan, English, Spanish, French  
You have a similar profile  
Are you interested in getting in contact?  
Add to your colleagues Details

### SS5NemboKid

Roberto Bandini  
ITALY  
Member of: ECLAP Best Practice Network, WG:  
Intellectual Property and Business Models for Content  
Work as: Student  
Are you interested in getting in contact?  
Add to your colleagues Details

<first <previous 1 2 3 4 5 6 7 8  
9 ... next > last >

## ■ Why ?

- They have the similar age, lang, localtion, ..
- Access/play similar content
- Provide similar content
- Have similar interests
- Have similar friends
- ...
- **Different SNs present different users' intentions**

# U→U Recommendations

$$\text{suggestion}(A, B) = \text{proximity}_{\text{dynamic}}(A, B) \times \gamma_d + \text{proximity}_{\text{static}}(A, B) \times \gamma_s$$

■  $\text{proximity}_{\text{static}}(A, B) =$   
 $F(v_{\text{language}}(A, B), v_{\text{location}}(A, B), v_{\text{friends}}(A, B), v_{\text{groups}}(A, B), v_{\text{age}}(A, B), v_{\text{taxonomy}}(A, B))$

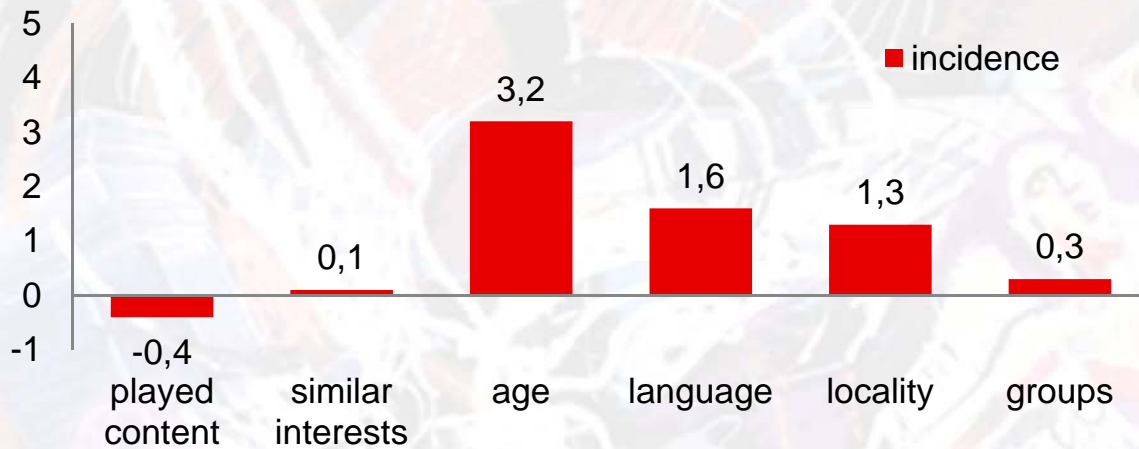
$$\begin{aligned} y(A, B) = & v_{\text{language}}(A, B) \cdot P_{\text{language}} \cdot \gamma_{\text{language}} + v_{\text{location}}(A, B) \cdot P_{\text{location}} \cdot \\ & \gamma_{\text{location}} + v_{\text{friends}}(A, B) \cdot P_{\text{friends}} \cdot \gamma_{\text{friends}} + v_{\text{groups}}(A, B) \cdot P_{\text{groups}} \cdot \gamma_{\text{groups}} + \\ & v_{\text{age}}(A, B) \cdot P_{\text{age}} \cdot \gamma_{\text{age}} + v_{\text{taxonomy}}(A, B) \cdot P_{\text{taxonomy}} \cdot \gamma_{\text{taxonomy}} + \\ & \text{proximity}_{\text{dynamic}}(A, B) \cdot P_{\text{proximity}_{\text{dynamic}}} \cdot \gamma_{\text{proximity}_{\text{dynamic}}}(A, B) \end{aligned}$$

Hyp:

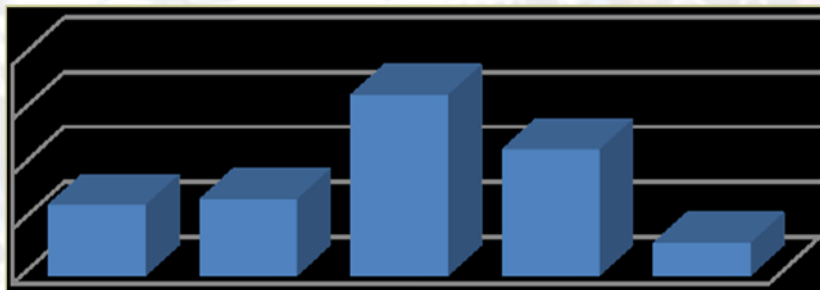
- Acceptance of Static based suggestions: age, location, language, . . .
- Acceptance of Dynamic Suggestions based on similarity of interests
- Acceptance of Random Suggestions
- Acceptance of Strategic Suggestions based on # of connections....



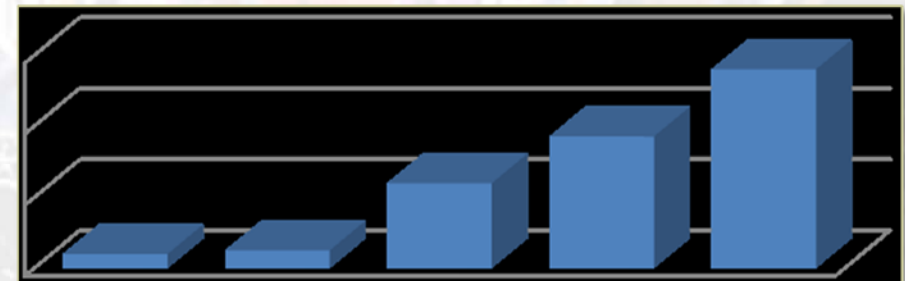
# Suggestion model Validation



regression	
R multiple	0,9624
F - Value	131,7795
Sign of F	2,3389E-33



Random selection



Strategic

✓ Number of friends

Deduction of (i) the mostly accepted suggestion kinds and of (ii) the best weighting factors

# Overview

- Objective and overview
- Networking & Tools
- Content & Tools ←
- ECLAP Architecture

# ECLAP Content

- **Cross media content, any content kind**
- **Metadata model, Metadata Editor**
- **Multilingual Indexing and Search, Faceted, multilingual**
- **Recommendations**
- **Content Aggregation: playlists, collections, courses**
- **AudioVisual relationships among content MyStoryPlayer**
  
- **Automated and Scalable content management**
  
- **Content IPR modeling and CAS**

# ECLAP ANY content kind

## ■ Informative Content

- Video, audio, images, documents
- 3D, animations, Braille
- Slide, Video-Slide, courses
- eBook, ePub, Mpeg21, intelligent

## ■ Aggregated Content:

- Playlist, Collections
- Annotations, Synchronization

## ■ Support and networking content:

- Blog, WebPage, Events, comments, forum, votes, messages, ...

- Performance
- Master classes
- Scene Sketches
- Scenography
- Scenes
- Private lives of artists
- Scores
- Braille
- BackStage Stills
- Choreography
- Morals
- Poster
- Booklets
- Magazines Music
- Audio ballets

comments

rating

relationships

technical

Dynamic

recommend

.....

# Metadata

- **Describe the ECLAP content**
  - **Dublin Core:** general, multilingual and multi-instances (e.g., title, authors, description, subjects, ..)
  - **Semantic:** content description, taxonomy, tags, annotations, etc., multilingual & multi-instances
  - **Groups:** one or more groups
  - **Technical:** duration, file format, dimension, editor, publisher, any IDs, etc. etc.
  - **Augmented Reality:** GPS, QR,..
  - **Intellectual Property:** IPR, licences for MD, licences for profiling the conditional access
  - Workflow metadata: status, dates, versioning, etc.
  - Etc.

Vittorio Gassman Macbeth nascosto/3



00:15 / 12:48

METADATA

Metadata languages

Title  
Vittorio Gassman Macbeth nascosto/3

Description  
Colore Videoregistrazione in tempo reale delle prove per la messinscena del Macbeth di Shakespeare tradotto, diretto e interpretato da Vittorio Gassman. E' probabilmente l'unica registrazione del metodo di lavoro di Gassman, dalla prima prova a tavolino fino alla prova generale in costume. La prima dello spettacolo, prevista per il 30 giugno a Firenze, Palazzo Pitti Maggio Musicale Fiorentino, non ha luogo, causa rottura di due costole di Gassman durante le ultime prove. Debutta quindi a Verona, al teatro romano, il 14 luglio 1983. "Vittorio Gassman - Macbeth: attore e regista", a cura di Valentina Valentini

Technical

Classification

IPR information

Performing arts metadata

Location

ACTIONS

All tags: None

Login or register to tag items

Average:

Your rating: None

Recommend

Add to Playlist

View for PC

View MPEG21 for PDA Windows Mobile 6.5

View MPEG21 for PC

View QR code for this content

RELATED OBJECTS BY TEXT

Vittorio Gassman Macbeth nascosto/4

Vittorio Gassman Macbeth nascosto/2

Vittorio Gassman Macbeth nascosto/5

Vittorio Gassman Macbeth nascosto/1

Vittorio Gassman prova Macbeth/1

MORE

POPULAR IN THE PERIOD

(1-10 of 387 in 2276 ms)

C. Bene, E. De Filippo: Incontro con gli studenti/1

Colore Stereo Videoregistrazione in tempo reale dell'incontro-dibattito con Carmelo

Technical

N° accesses 28

Format video

Type video

Duration 00:12:48.0

Video quality available LD MD

Available platforms PC, iPhone/iPad, Android, Windows Phone 7, Windows Mobile 6.5

Upload date Sun, 2012-01-15 04:08

Group

Centro Teatro Ateneo, University of Rome La Sapienza, UNIROMA, Italia

Published by CTA-UNIROMA

Upload user marcomaci

Original filename ITUR1CTAVGA09074.mov

Workflow type Europeana

Content-url link to this content

QR code



axoid urn:axmedis:00000:obj:03b7454d-6b7f-464a-9050-1d42e98cff88

Classification

IPR information

Technical

Classification

Type Videosintesi e materiali di prove dello spettacolo, a cura di Valentina Valentini

Language Ita

Source BVU

isPartOf Vittorio Gassman

Original metadata language it

IPR information

Rights

Ferruccio Marotti, Centro Teatro Ateneo - "Sapienza" Università di Roma, Eredi Gassman

IPR owner page link to page

Europeana rights Europeana: Unknown copyright status

Public No

PC permission

	Public	Group	Educ.	Trusted
Download HD PC	No	No	No	Yes
Play HD PC	Yes	Yes	Yes	Yes
Download LD/MD PC	No	No	No	Yes
Embed	No	No	No	Yes
Play LD/MD PC	Yes	Yes	Yes	Yes

Mobile permission

	Public	Group	Educ.	Trusted
Download mobile browser	No	No	No	Yes
Play mobile browser	Yes	Yes	Yes	Yes
Download mobile app	No	No	No	Yes
Play mobile app	Yes	Yes	Yes	Yes

Performing arts metadata

Location

Performing arts metadata

First performance date 1983-07-

Performance place Teatro Ateneo

Performance city Roma

Performance country Italia

Performing Arts Group Compagnia del Teatro Manzoni diretta da Vittorio Gassman, con la collaborazione del 46° Maggio Musicale Fiorentino, della Bottega Teatrale di Firenze e dell'Estate Teatrale Veronese

Performers and crew Riprese: A. Muschietti; Tecnico audio e video: S. Casaluci; Interpreti e personaggi: Alessandro Esposito (Duncan, re di Scozia, un portiere), Danilo De Girolamo (Malcom), Roberto Medina (Donalbain), Vittorio Gassman (Macbeth), Carlo Montagna (Banquo), Luciano Virgilio (Macduff), Gian Franco Baroni (Lennox), Stefano De Sando (Ross), Luca Lazzareschi (Angus), Sergio Basile (Seward, conte di Northumberland, un capitano, un sicario), Lorenzo Gioielli (figlio di Seward, Fleance, figlio di Banquo), Alessandro Nisivoccia (un medico), Sergio Meogrossi (primo sicario), Federico Grassi (un sicario), Annamaria Guarnieri (Lady Macbeth), Giovanna Carcasci (Lady Macduff), Regina Senatore, Gabriella Chiari, Francesca Tardella, Franco Concilio, Franco Felici, Federico Grassi, Luca Lazzareschi, Stefano Molinari, Guido Paternesi (streghe). Scene e costumi: Paolo Tommasi; Musiche: Gianandrea Gazzola; Regia: Vittorio Gassman

Genre Teatro

Historical period XX Secolo

Location



## LOCATION MAP



### Federal Republic of Germany

(1-10 of 26 in 4163 ms)



#### Tutta casa, letto e chiesa -1977, Monologhi satirici sull...

Manifesto dello spettacolo "Tutta casa, letto e chiesa" Nur Kinder, Küche, Kirche

1 Hits Rating ★★★★★

Actions



#### Disegni, bozzetti e dipinti non collegati a opere particol...

Dario Fo: serie di disegni raffiguranti le sorelle Monteros, note ballerine di flamenco. Le sorelle Monteros.

1 Hits Rating ★★★★★

Actions



#### rejestracja akcji Miasta Równoległe/ Ciudades Paralela...

rejestracja akcji Miasta Równoległe/ Ciudades Paralelas/ Parallele Staedte. Edycja: Berlin. Koncepcja projektu: Lola Arias / Stefan Kaegi. Opis projektu: ...

1 Hits Rating ★★★★★

Actions



#### Estero - Documenti vari e corrispondenza relativa a Pa...

Dario Fo e Franca Rame incontrano il pubblico del teatro tedesco Berliner Ensemble in una conversazione con il regista Peymann Claus.

1 Hits Rating ★★★★★

Actions

## CONTENT

- Featured
- Popular
- Popular in the period
- Last Posted
- Top Rated
- Location
- Upload new content

## ORGANIZE PERSONAL COLLECTION

## ROOT

## KEYWORD CLOUD

## QUERY CLOUD

## CLASSIFICATION

## GROUPS

## POTENTIAL COLLEAGUES

### boloska

stefania bolognesi, Female

ITALY

Add to your colleagues Details

### Alessandra

Alessandra MARFOGLIA, Female, 38

ITALY

Add to your colleagues Details

### carolinamadriz

Ana Carolina Madriz Zuniga

COSTA RICA

Add to your colleagues Details

### @borja

Carol Borja, 33

MEXICO, Michoacán

Add to your colleagues Details

### Valentina Valentini

Valentina Valentini, Female

ITALY

Add to your colleagues Details

1 2 3 4 5 6 7 8 9 next > last >

## STATISTICS ON YOUR ACTIVITIES

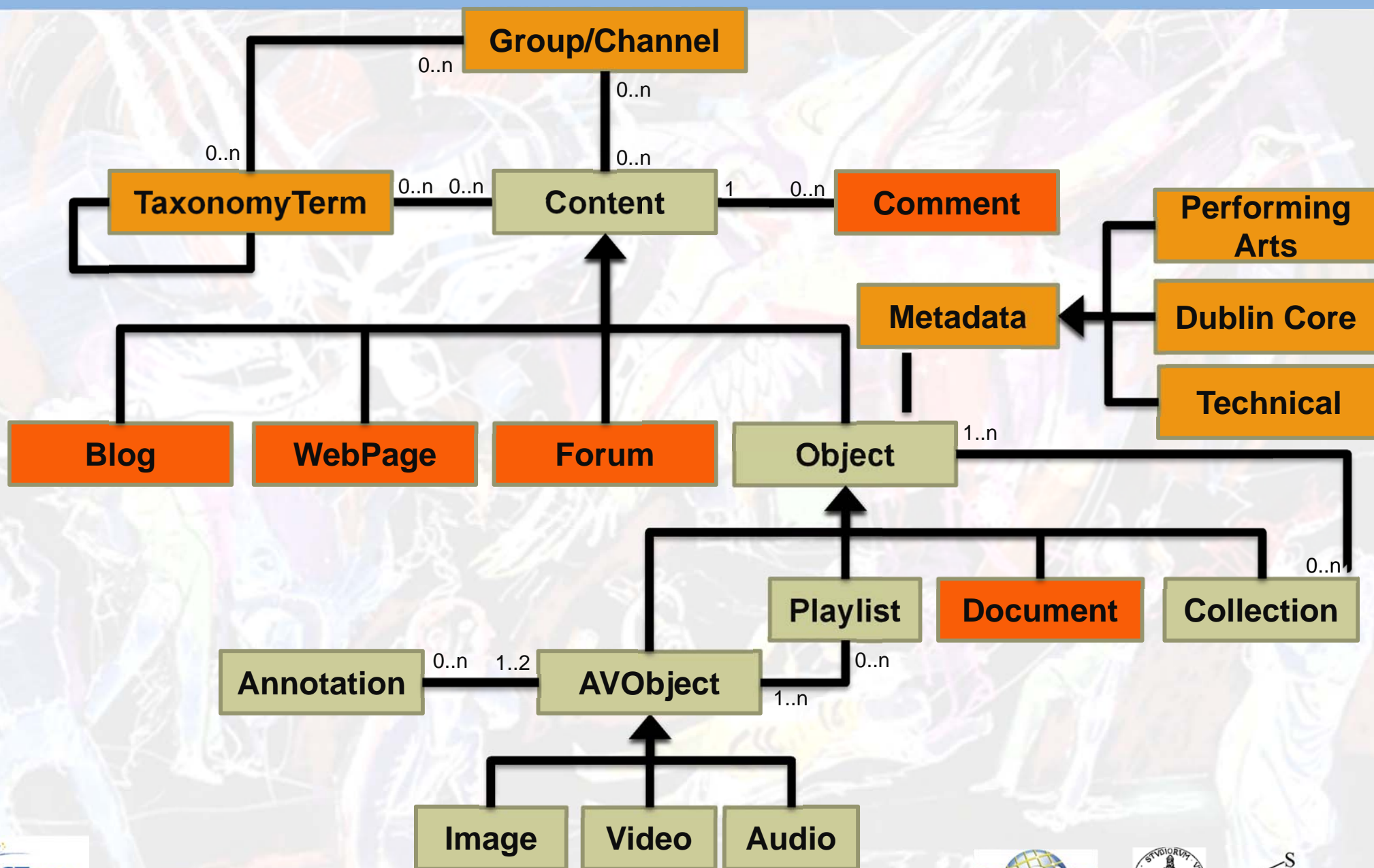
## STATISTICS ON YOUR GROUPS

## STATISTICS ON DOWNLOADS

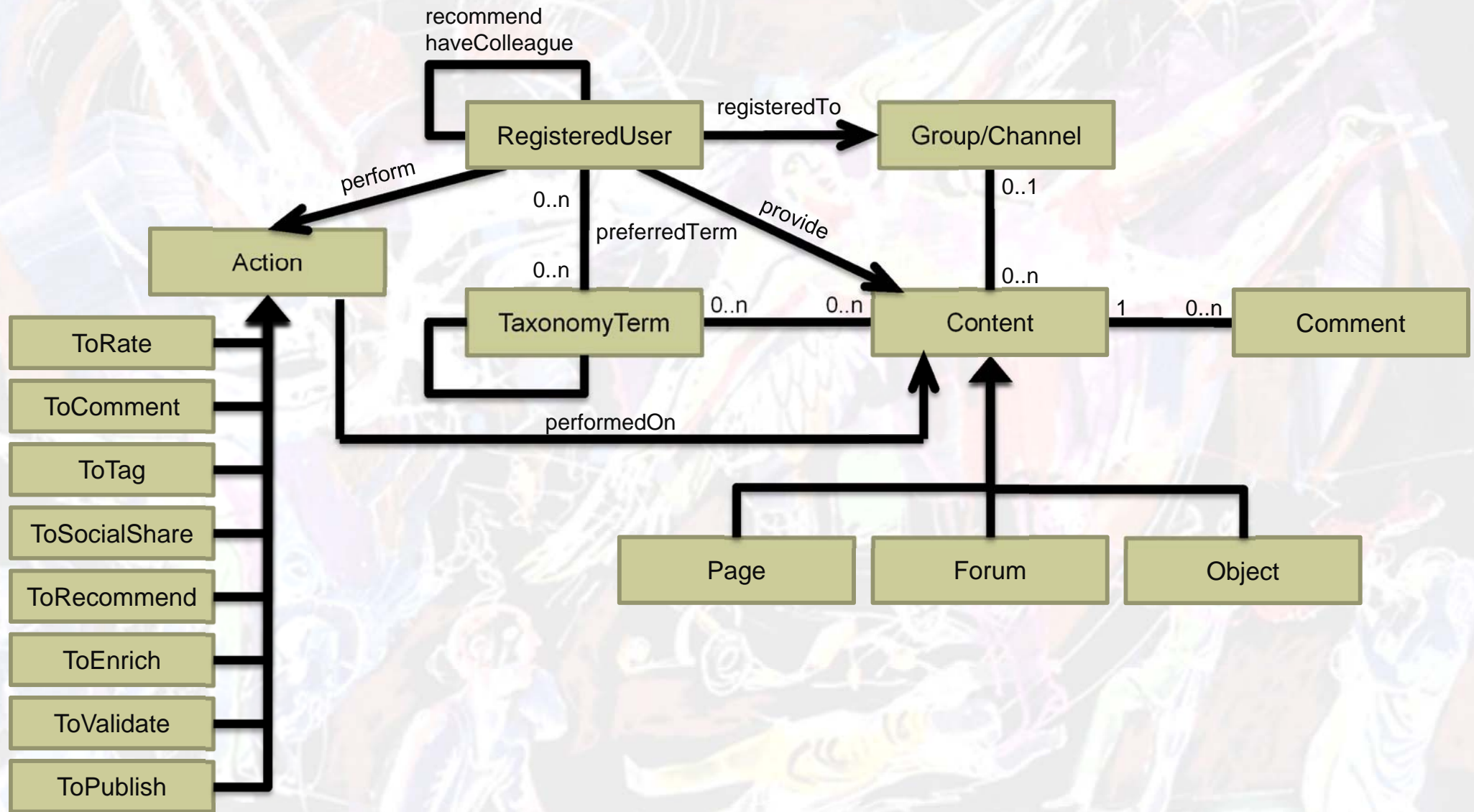
## STATISTICS ON QUERIES



# ECLAP semantic model (a part)



# BPN: User based semantic model



# Indexing

- **Indexing & Search system**
  - Based on Apache Solr
- **Multilingual aspects**
  - Translate the metadata or translate the query?
  - We use metadata translation
- **Indexing schema**
  - Dublin Core + DCTerms (multi language)
  - Performing Arts
  - Technical (provider, content type, GPS, IPR, duration, quality, ...)
  - Groups associations (multi language)
  - Taxonomy associations (multi language)
  - Comments & multi language tags
  - FullText of the textual digital resources

# Cross Media Indexing

Media Types	DC (ML)	Technical	Performing Arts	Full Text	Tax, Group (ML)	Comments, Tags (ML)	Votes
# of Index Fields*	468	10	23	13	26	13	1
Cross Media: html, MPEG-21, animations, etc.	$Y_n$	$Y$	$Y$	$Y$	$Y_n$	$Y_m$	$Y_n$
Info text: blog, web pages, events, forum, comments	$T$	$N$	$N$	$N$	$N$	$Y_m$	$N$
Document: pdf, doc, ePub	$Y_n$	$Y$	$Y$	$Y$	$Y_n$	$Y_m$	$Y$
Audio, video, image	$Y_n$	$Y$	$Y$	$N$	$Y_n$	$Y_m$	$Y_n$
Aggregations: play lists, collections, courses, etc.	$Y_n$	$Y$	$Y$	$Y/N$	$Y_n$	$Y_m$	$Y_n$

- Y: only one metadata set;
- Y/N: metadata set not complete
- T: only title of the metadata set,
- $Y_n$ : yes with n possible languages (i.e., n metadata sets);
- $Y_m$ : m different comments can be provided, each of them in a specific language.



Sort by Relevance Sort by Upload Sort by Update

## SEARCH RESULTS

(1-10 of 210 in 336 ms)



### Il Comico, Seminario di Dario Fo g.1/2

Colore Stereo Seconda parte della prima giornata. Dario Fo racconta la storia della "Parpaja topola" e recita un brano del racconto. Ferruccio Marotti fa una domanda sull'uso del ...

0 Hits Rating ★★★★★

Relevance 88.23



### Il Comico, Seminario di Dario Fo g.1/1

Colore Stereo Ferruccio Marotti introduce il terzo ciclo di seminari sul comico (dopo quelli con Alberto Sordi e con Roberto Benigni), dedicato a Dario Fo. Partecipa Maurizio Grande e Franca Rame ...

0 Hits Rating ★★★★★

Relevance 88.2



### Il Comico, Seminario di Dario Fo McA g.2/4 tot

Colore Stereo Seconda parte del secondo seminario di Dario Fo a cura di Ferruccio Marotti (4 febbraio 1985) con la partecipazione di Maurizio Grande e Franca Rame.

0 Hits Rating ★★★★★

Relevance 88.04



### Il Comico, Seminario di Dario Fo McB g.2/7 pp

Colore Stereo Seconda e ultima parte della seconda giornata del seminario di Dario Fo sul comico a cura di Ferruccio Marotti (primi piani), con la partecipazione di Maurizio Grande e Franca Rame ...

0 Hits Rating ★★★★★

Relevance 88.01



### Il Comico, Seminario di Dario Fo McA g.2/5 tot

Colore Stereo Ultima parte della seconda giornata del seminario (4 febbraio 1985). Dario Fo parla delle sue difficoltà con la critica teatrale (end a 00:03:00). Poi immagini di Dario Fo tra gli ...

0 Hits Rating ★★★★★

Relevance 88



### Il Comico, Seminario di Dario Fo McB g.2/6 pp

Colore Stereo Inizio della seconda giornata di seminario (4 febbraio 1985). Prima parte del secondo seminario sul comico di Dario Fo, a cura di Ferruccio Marotti, con la partecipazione di ...

0 Hits Rating ★★★★★

Relevance 87.9



### Il Comico, Seminario di Dario Fo McA g.2/3 tot

Colore Stereo Prima parte del secondo seminario sul comico di Dario Fo, con la partecipazione di Maurizio Grande e Franca Rame (4 febbraio 1985). Introduzione di Ferruccio Marotti al lavoro ...

0 Hits Rating ★★★★★

Relevance 87.87



### Dario Fo e Franca Rame, evento 20 ottobre 2011, live

Dario Fo e Franca Rame, evento 20 ottobre 2011, live

## SEARCH FILTER

Resource category

Format

video (210)

Type

Group

Classification - Genre

Classification - Management & Organization

Classification - Performing Arts

Creator

di Franca Rame e Dario Fo (4)

Jean Paul Denizon (3)

Libera Università di Alcatraz (3)

M. Serena, M. Pizza, P. Bellini (2)

Content language

Duration

Long > 20 minutes (141)

Il Comico, Seminario di Dario Fo McB g.2/7 pp

Short < 4 minutes (15)

Video quality available

Device

Published by

Original metadata language

Upload time

## EUROPEANA

Search: dario fo

Dario Fo à la Comédie Fra...



Dario Fo;Institut National de l'Audiovisuel

Molière mis en scène par ...



Richard Fontana;Institut National de l'Audiovisuel

Fabnlages obscènes de Dario Fo...

FACETED RESULTS

# Faceted Results

SEARCH FILTER

Resource category

Format

- video (394)

Type

Group

Classification - Genre

Classification - Management & Organization

Classification - Performing Arts

Creator

- Dario Fo (30)
- Ferruccio Di Cori (21)
- CTFR (11)
- Magyar Televízió (5)

Content language

Duration

Video quality available

- Low definition (394)
- Medium definition (193)
- High definition (7)

Device

Published by

- CTFR (206)
- CTA-UNIROMA (175)
- DSI (8)
- OSZMI (5)

Original metadata language

Upload time

■ Search for:  
“dario fo”,  
Video

■ 394 results

■ Of which:

■ ....

■ Combining the  
filtering

■ 51 results

■ Of which...

SEARCH FILTER

Resource category

Format

Type

Group

Creator

- Dario Fo (30)
- Ferruccio Di Cori (21)
- CTFR (11)
- Magyar Televízió (5)

Content language

Duration

Video quality available

- Low definition (51)
- Medium definition (49)

Device

Published by

- CTA-UNIROMA (49)
- CTFR (2)

Original metadata language

Upload time

# Propagation of query on Europeana



dario fo

video



deep search



35

HOME ABOUT PROFILE CONTENT COMMUNITY SEARCH SERVICES EVENTS HOWTO

root Exit

Sort by Relevance Sort by Upload Sort by Update

## SEARCH RESULTS

(1-10 of 394 in 9323 ms)



### Il Comico, Seminario di Dario Fo g.1/2

Colore Stereo Seconda parte della prima giornata. Dario Fo racconta la storia della "Parpaja topola" e recita un brano del racconto. Ferruccio Marotti fa una domanda sull'uso del grammelot

7 Hits Rating ★★★★★

Actions

Relevance 36.53



### Il Comico, Seminario di Dario Fo g.1/1

Colore Stereo Ferruccio Marotti introduce il terzo ciclo di seminari sul comico (dopo quelli con Alberto Sordi e con Roberto Benigni), dedicato a Dario Fo. Partecipa Maurizio Grande e nella

370 Hits Rating ★★★★★ 1

Actions

Relevance 36.5



### Il Comico, Seminario di Dario Fo McA g.2/4 tot

Colore Stereo Seconda parte del secondo seminario di Dario Fo a cura di Ferruccio Marotti (4 febbraio 1985), con la partecipazione di Maurizio Grande e Franca Rame. Dario Fo parla in forma

1 Hits Rating ★★★★★

Actions

Relevance 36.33



### Il Comico, Seminario di Dario Fo McB g.2/7 pp

Colore Stereo Seconda e ultima parte della seconda giornata del seminario di Dario Fo sul comico a cura di Ferruccio Marotti (primi piani), con la partecipazione di Maurizio Grande e Franca

3 Hits Rating ★★★★★

Actions

Relevance 36.3



### Il Comico, Seminario di Dario Fo McB g.2/6 pp

Colore Stereo Inizio della seconda giornata di seminario (4 febbraio 1985). Prima parte del secondo seminario sul comico di Dario Fo, a cura di Ferruccio Marotti, con la partecipazione di

0 Hits Rating ★★★★★ 1

Actions

Relevance 36.19

## SEARCH FILTER

### EUROPEANA

Search: dario fo

#### Fabulazzo osceno, tre monologhi di ...



Dario Fo e Franca Rame; ECLAP, e-library for Performing Arts

#### Tavole Giotto



Dario Fo e Franca Rame; ECLAP, e-library for Performing Arts

#### Dario Fo à la Comédie Fra...



Dario Fo; Institut National de l'Audiovisuel



Powered by Europeana

## CONTENT

## ORGANIZE PERSONAL COLLECTION

## ROOT

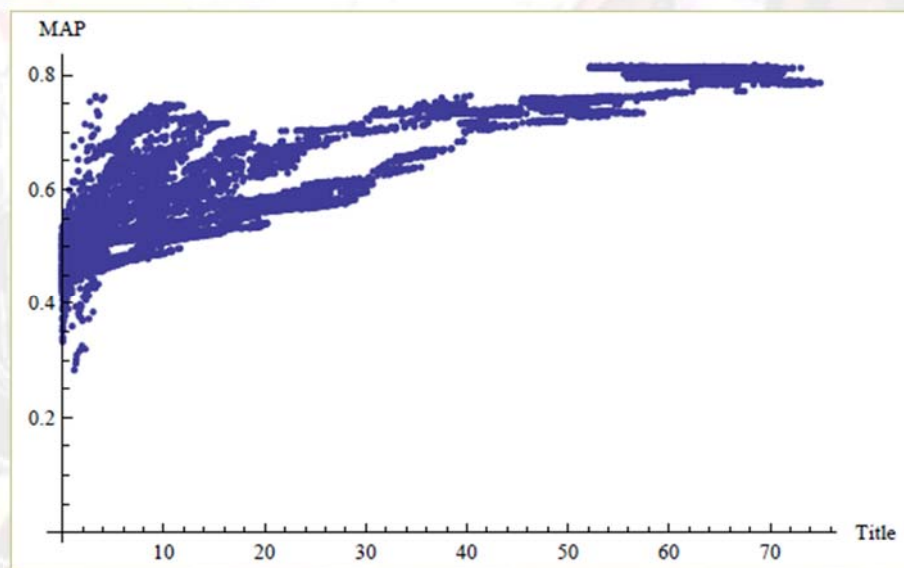
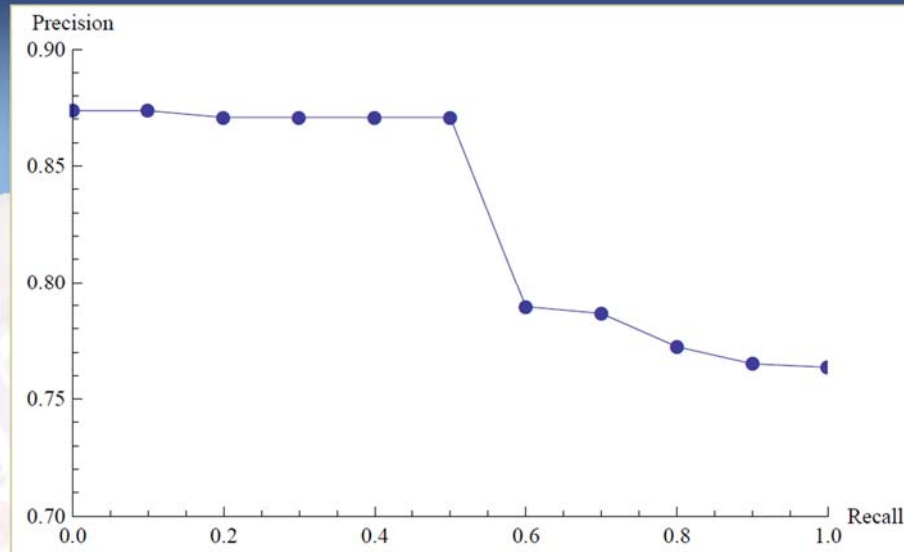
## KEYWORD CLOUD

## QUERY CLOUD

## CLASSIFICATION

# Indexing optimization

Metadata Type	# fields	Multilingual	Index fields	# fields/item
Performing Arts	23	<i>N</i>	23	<i>n</i>
Dublin Core	15	<i>Y</i>	182	<i>n</i>
Dublin Core Terms	22	<i>Y</i>	286	<i>n</i>
Technical	10	<i>N</i>	10	10
Full Text	1	<i>Y</i>	13	1
Thematic Groups	1	<i>Y</i>	13	20
Taxonomy Terms	1	<i>Y</i>	13	231
Pages Comments	1	<i>N</i>	1	<i>n</i>
<b>Total</b>	74	—	541	—



$$b := (title: q)^{w1} \vee (body: q)^{w2} \vee (description: q)^{w3} \\ \vee (subject: q)^{w4} \vee (taxonomy: q)^{w5} \\ \vee (contributor: q)^{w6} \vee (text: q)^{w7}$$

- Optimisation Obtained by using Simulated Annealing
- $w1 = 68:4739$ ,  $w2 = 31:7873$ ,  $w3 = 0:2459$ ,  $w4 = 9:8633$ ,
- $w5 = 13:2306$ ,  $w6 = 2:1720$ ,  $w7 = 3:9720$
- MAP, Mean Average Precision = 0,82

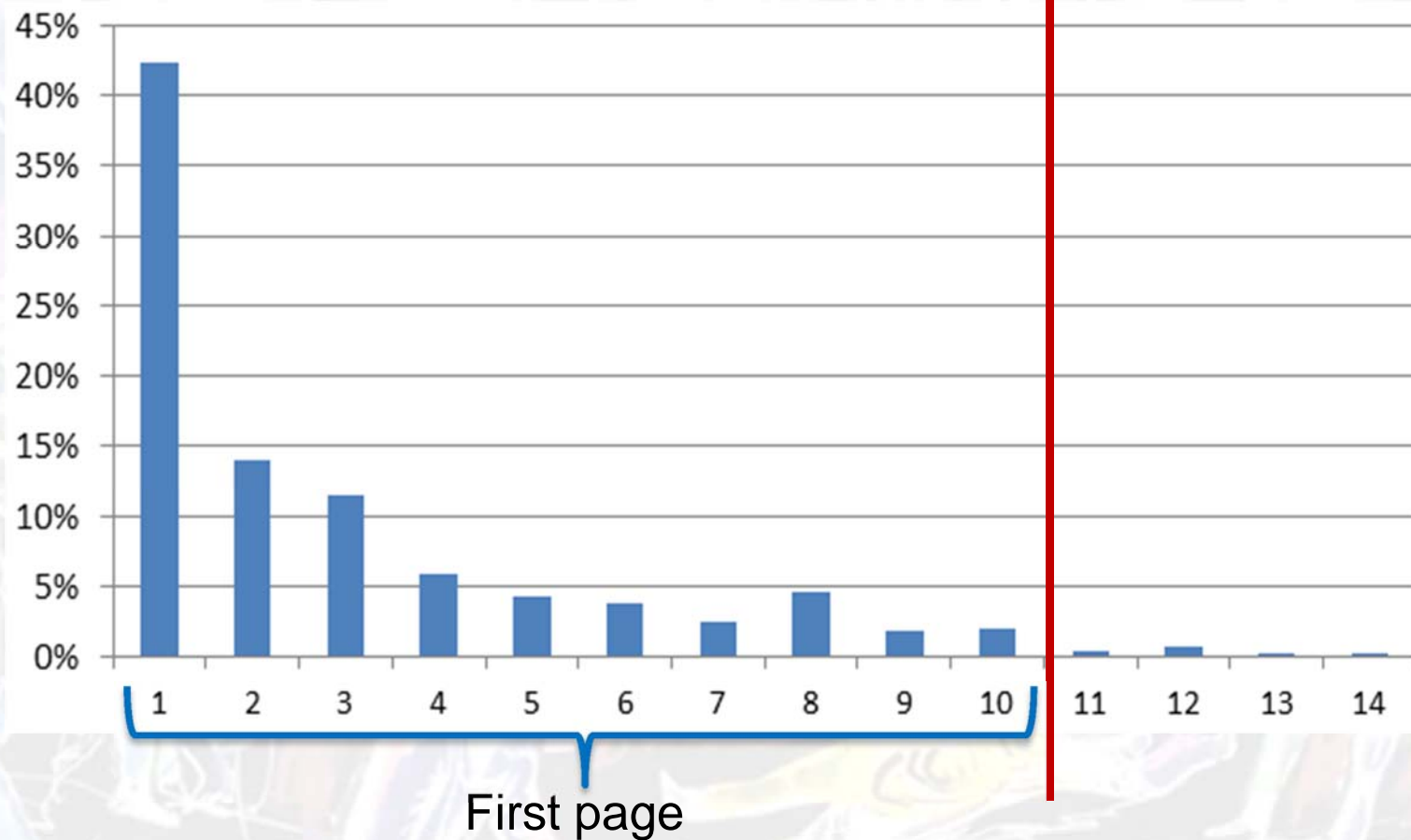


# Search Facility Assessment

users	# Full Text Query	# Faceted Query	# Last Posted List	#Featured List	# Popular List
simple registered	323	24	4	22	17
partners	1094	21	27	19	9
anonymous	2634	147	234	302	213
<b>Total</b>	<b>4051</b>	192	265	343	239
Clicks after query/list	1564	200	318	2799	231

# Search Facility Acceptance

## ■ Click order distribution



# C→C Recommendations

- **Similarity by taxonomical classification**
  - Hierarchical clustering solutions
- **Similarity by Text, MD**
  - Frequency of keywords
- **Similarity by Content, CBIR**
  - Several algorithms
- **Next Steps**
  - combinations

Vittorio Gassman Macbeth nascosto/3



## RELATED OBJECTS BY TEXT



Vittorio Gassman Macbeth nascosto/4   Vittorio Gassman Macbeth nascosto/2   Vittorio Gassman Macbeth nascosto/5   Vittorio Gassman Macbeth nascosto/1   Vittorio Gassman prova Macbeth/1

# Content based Information Retrieval

## DISIT CBIR Demo

Distributed Systems and Internet Technology Laboratory  
Documentation - Validation



1257.62 ms

Search results for query: CEDD

2.294	2.188	2.114	2.1	2.037	
2.021	2.014	2.013	1.973	1.962	
1.948	1.936	1.929	1.911	1.902	
1.9	1.895	1.883	1.881	1.88	
1.861	1.859	1.856	1.853	1.851	
1.85	1.848	1.841	1.836	1.834	

## DISIT CBIR Demo

Distributed Systems and Internet Technology Laboratory  
Documentation - Validation



1092.07 ms

Search results for query: DISITZ

1.2049796	0.89767384	0.89139628	0.81641936	0.8108337	
0.7859342	0.7819109	0.74730504	0.72368228	0.72218204	
0.7017734	0.70064556	0.69588948	0.66441644	0.6325419	
0.62471176	0.61127854	0.58755172	0.58343076	0.57726716	
0.56828284	0.56663	0.56489814	0.5633782	0.55872512	
0.5379462	0.53387296	0.53032196	0.529945	0.5130342	

<http://www.eclap.eu/cbir>

# Content Aggregations

- Play Lists
- Collections
- essay
- Courses

- Without resource change

- Diff. models
- Diff. Semantic to play them
- MD as content

**eclap**  
e-library for performing arts

playlist

HOME ABOUT PROFILE CONTENT COMMUNITY SEARCH SERVICES EVENTS HOWTO paolo Exit

## Social Dinner

**METADATA**

**Title**  
Social Dinner

**Subject**  
Social Dinner

**Description**  
dinner time in Florence during the KickOff Meeting

**Technical**

**Classification**

**IPR inf**

**PLAYLIST'S PLAYBACK**

ECLAP Kick off meeting pictures

- ▶ 1. Social Dinner 05'
- 2. Eclap Women 05'
- 3. ECLAP Kick-off meeting 05'

3 items Loop: [ ]

**SORT BY**

**ACTIONS**

Average:  
☆☆☆☆☆  
not yet ranked, be the first one to rate this content.

Facebook Twitter YouTube Dribbble SoundCloud LinkedIn G+

Add Annotation

Recommend

Add to Playlist

Remove Favorite

Mark as featured

Download for PC

Download MPEG21 for PDA Windows Mobile 6.5

Download MPEG21 for PC

**SIMILAR OBJECTS**

**Jay Pritzker Pavilion, Millenium Park, Chicago**  
Frank Gehry, winner of the National Medal of Art, applied his signature style to this revolutionary outdoor concert venue. The Pavilion stands 120-feet high, with a billowing headdress of brushed stai ...  
126 Hits Rating ★★★★★

**Beeld en Geluid**  
The atrium of the Beeld en Geluid building in Hilversum. (source wikimedia commons)

Keynote at SITIS 2012 Conference, 26/11/2012

# Play List and Collectios

## ■ Playlist

- Sequence of segments of videos and/or audio and images kept for a time duration
- They are show/played in sequence (the images have an associated duration imposed by the creator)

## ■ Collection

- A set of content (audio/video/images, docs, playlist, animations, 3D, etc., any kind)
- They can be downloaded from mobile content organizer

- **Playlists/Collections** have their specific metadata which are indexed as regular content

# MyStoryPlayer

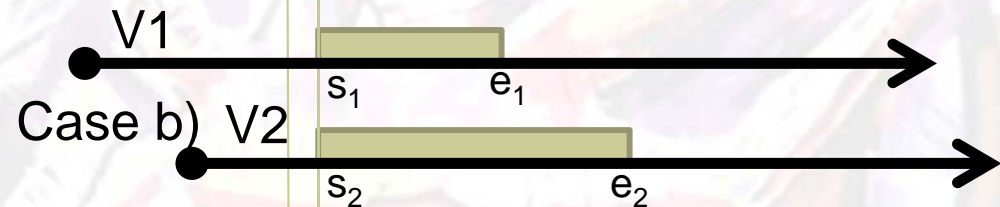
- Use Cases:
  - Multiple views of the same action
  - Comment audiovisual segment with others audiovisual segments: comparison, scene analysis, etc.
- Formalize relationships among media
  - RDF model
  - RDF progressive player

# Media Relationships

- One2One



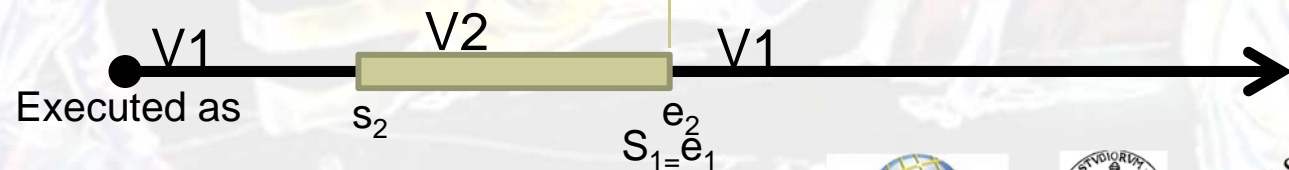
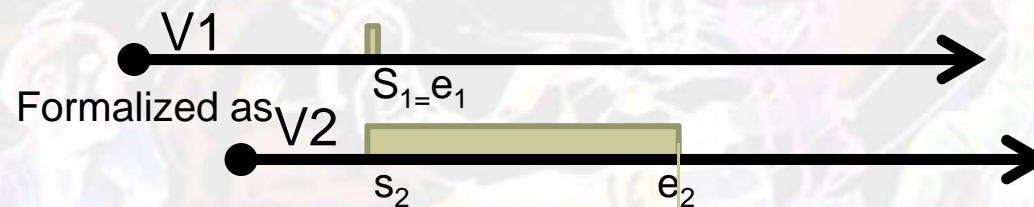
- Synchronization



- Sequences



- Explosive





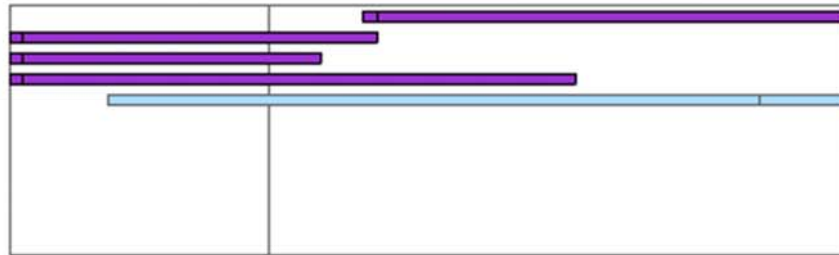
# MyStoryPlayer

HOME ABOUT ▾ PROFILE ▾ CONTENT ▾ COMMUNITY ▾ SEARCH ▾ SERVICES ▾ EVENTS ▾ HOWTO ▾

root Exit

## MYSTORYPLAYER



**Annotation info**  
**Dario Fo dirige il coro delle risate**  
Start-end: 00:00:07 - 00:00:59  
Duration: 00:00:52

Choose amongst these classifications:



Dario Fo dinanzi al pubblico della Palaz



### SEARCH FOR ANNOTATIONS

Description contains:

Classification:  ▾

Refers to:  ▾

### SEARCH FOR EXPERIENCES

### SEARCH RESULTS

- Found 79 annotations in 57 video
- Image A kopasz énekesnő
  - Video you PARA | DISO
    - 00:00:00-00:00:13 this is a dance performance
    - 00:00:01-00:06:17.7 this is a test annotation
    - 00:00:01-00:06:17.7 annotation video on video
    - 00:00:01-00:06:17.7 you paradiso and european presentation reproduced synchronously
    - 00:00:01-00:06:17.7 this is a dance performance
    - 00:00:02-00:04:17 you paradiso and Richard Schechner about performing arts
    - 00:00:04-00:00:35 test annotation
    - 00:00:11-00:06:17.7 no description
    - 00:00:31-00:01:31 dancers
    - 00:00:40-00:01:56 no description
  - Video Trasmissione forzata II



# MyStoryPlayer Experience

- **User may**
  - **Navigate** on the *non linear* relationships defined by the several audio visual annotations
  - **Record/play** its experience in navigating on the non linear relationships defined by the several annotations
  - **Share** the Experiences to other users
  - **Perform semantic queries**
- **User may annotate** the audiovisual content with
  - Audio Visual annotations, taking segments
  - Textual annotations
  - Semantic annotations/relationships

# Networks of Annotations

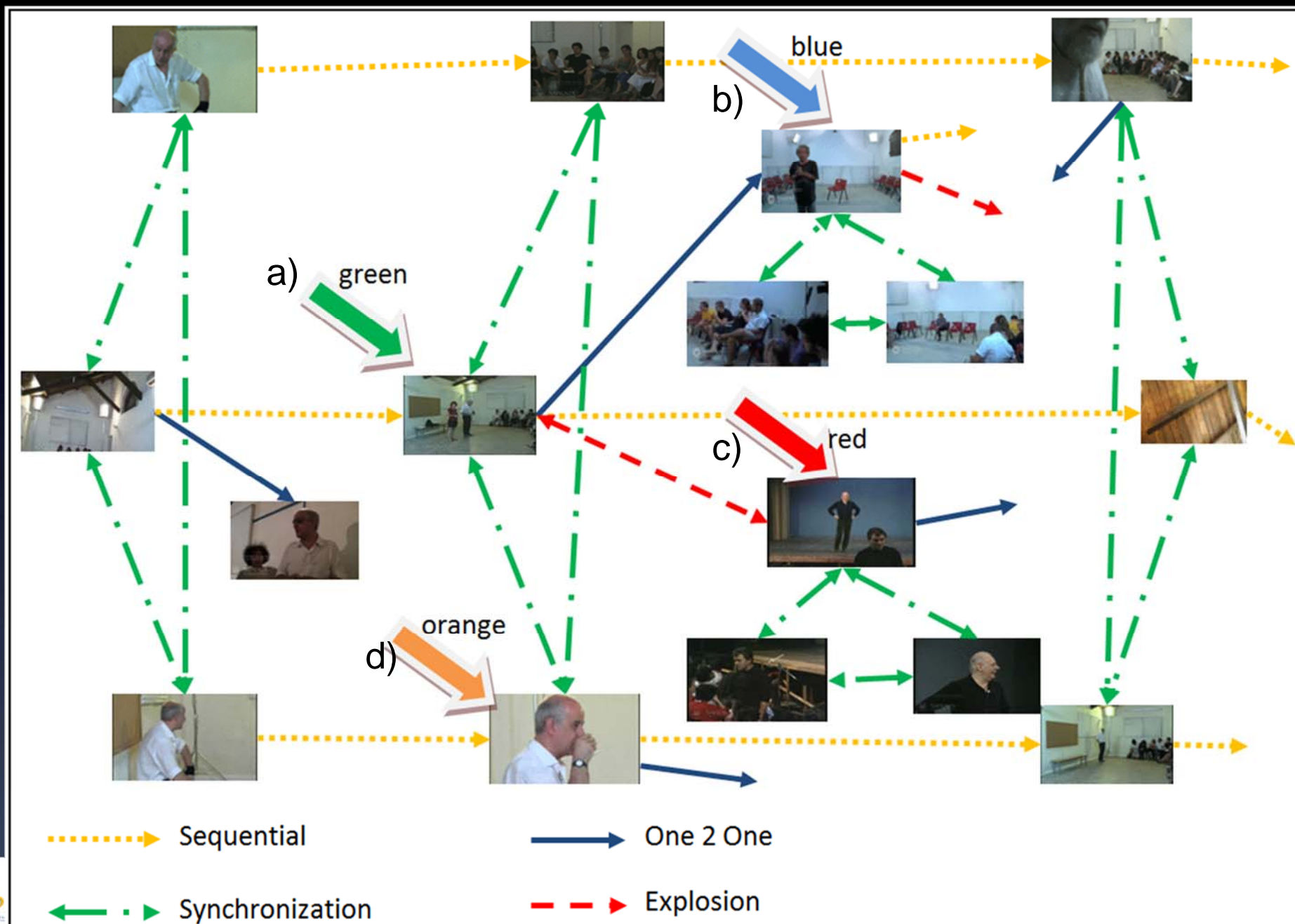
- <http://www.eclap.eu/drupal/?q=en-US/msp&axoid=urn%3Aaxmedis%3A00000%3Aobj%3A04e0caef-b33b-4f4a-ba50-a80d96766192&axMd=1&axHd=1>

## MYSTORYPLAYER

The screenshot displays the MYSTORYPLAYER interface. The main video player shows a scene with several people on a stage. Below the video, there are several horizontal bars representing annotations, with blue markers indicating specific points in time. To the right, there are three smaller video thumbnails. The top one is titled "Watch Your Step - Episode 1-Size of Movement" and shows a person in a room. The middle one shows a person holding a large white object. The bottom one shows a person's face with text overlay: "Gordon Baskin, Director of the Center for the Study of the History of Science, University of Illinois, 40 years of self-directed research (mostly in the field of quantum mechanics) which is now being used to build energy".

Annotation info  
**annotation video on video**  
Start-end: 00:00:01 - 00:06:17  
Duration: 00:06:16

# Modeling relationships



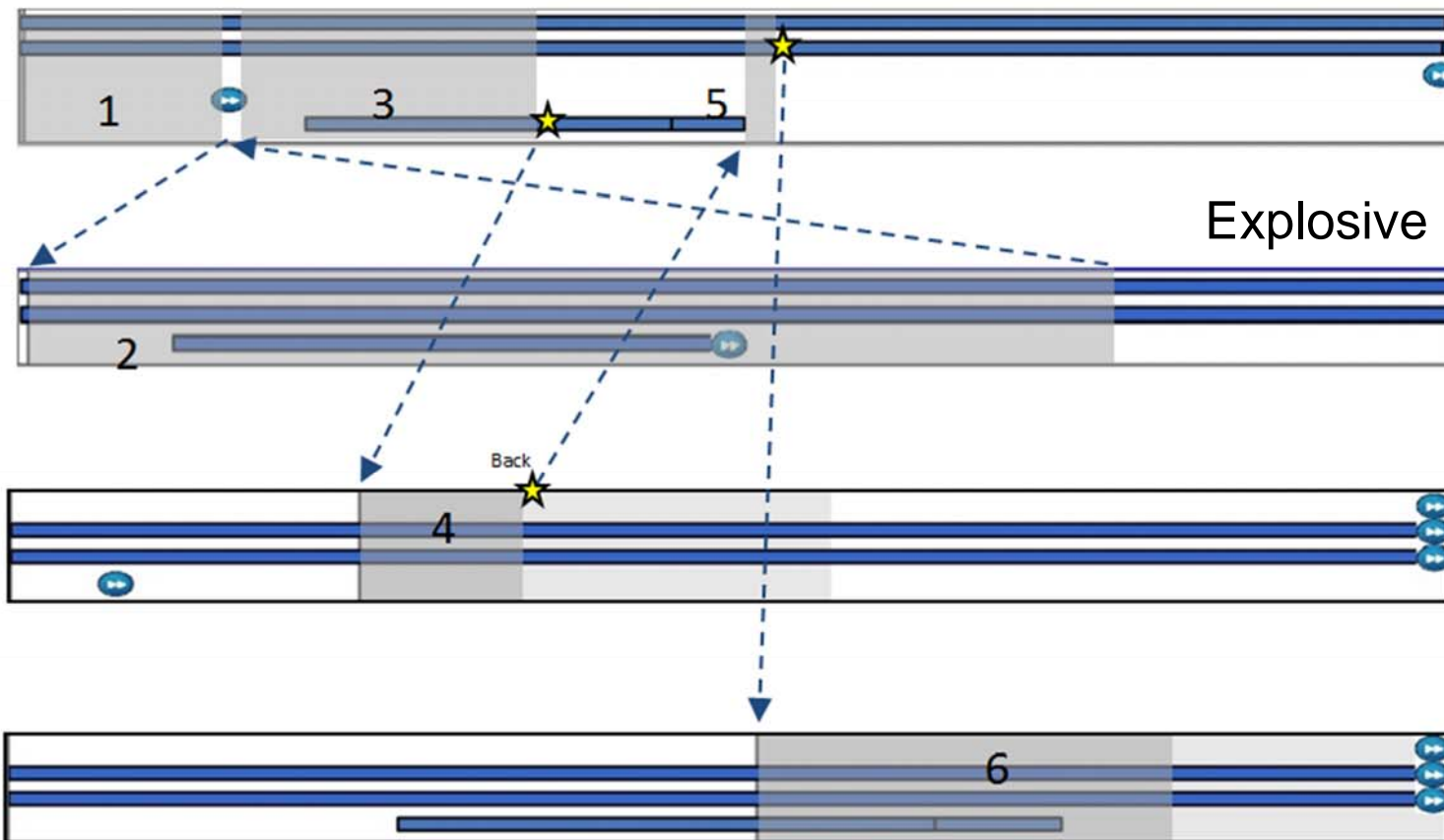
# Navigating on media: a,b,c,d

Servillo: Stage di  
Tecniche d'attore Mc  
a 2 centr a 2 dx/2

Il primo miracolo di  
Gesù Bambino:  
camera frontale

Paolo Rossi: stage di  
tecniche d'attore  
MC a 1dx/3

Servillo: Stage di  
Tecniche d'attore Mc  
a 2 sx/2



★ click of the user

## ▼ MEDIA RELATIONSHIP

Laboratorio con Toni Servillo\_g.1, centr/1

Use 'Add Media Relationship' to put another content in relation with the first content.

### Text Description:

Choose a class of annotation:

### Select Relationship Type:

Synchro , Sequential , Explosive , One2One

### Filter by type:

Audio , Video , Image  All Types

### Suggested Contents to relate:

- Servillo: Stage di Tecniche d'attore Mc g.1 centr/1 Mc g.1 dx/4 video
- Servillo: Stage di tecniche d'attore Mc g.1 centr/1 video
- Laboratorio con Toni Servillo\_g.1, sx/1 video
- Laboratorio con Toni Servillo\_g.1 dx/1 video
- Servillo: Stage di Tecniche d'attore Mc g.5 centr/1 video
- Servillo: Stage di Tecniche d'attore Mc g.4 centr/1 video
- Servillo: Stage di Tecniche d'attore Mc g.3 centr/1 video
- Servillo: Stage di Tecniche d'attore Mc g.2 centr/1 video
- Servillo: Stage di Tecniche d'attore Mc g.1 sx/4 video
- Servillo: Stage di Tecniche d'attore Mc g.1 centr/1 video

Discard

Save

## ▼ MEDIA RELATIONSHIP

Laboratorio con Toni Servillo\_g.1, centr/1

Laboratorio con Toni Servillo\_g.1, sx/1

Laboratorio con Toni Servillo\_g.1 dx/1

Use 'Add Media Relationship' to put another content in relation with the first content.

### Text Description:

Choose a class of annotation:

### Select Relationship Type:

Synchro , Sequential , Explosive , One2One

### Filter by type:

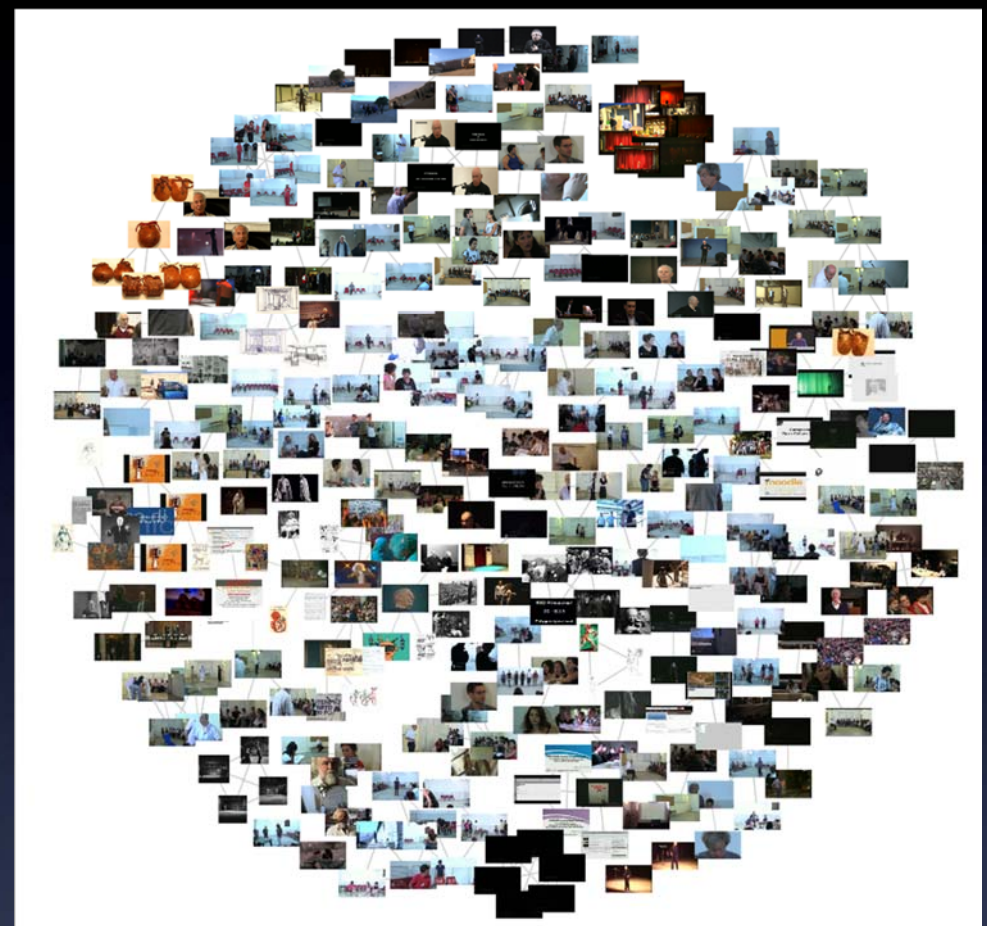
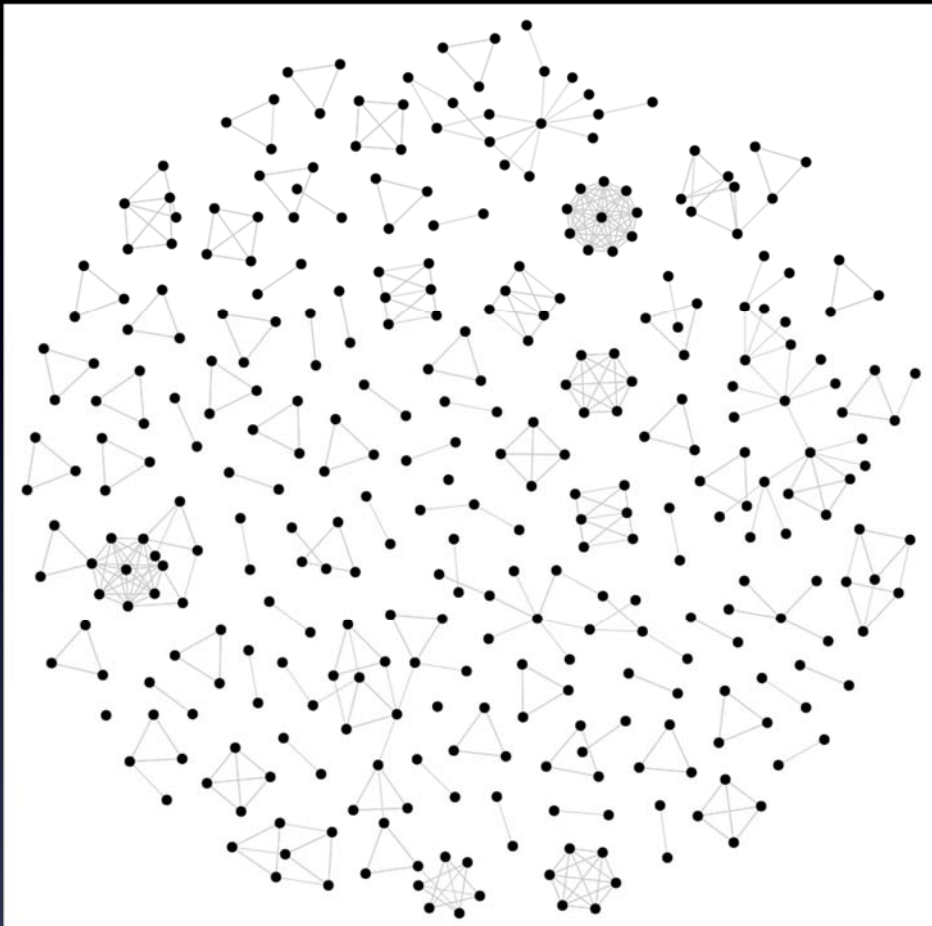
Audio , Video , Image  All Types

### Suggested Contents to relate:

- Servillo: Stage di Tecniche d'attore Mc g.1 centr/1 Mc g.1 dx/4 video
- Servillo: Stage di tecniche d'attore Mc g.1 centr/1 video
- Laboratorio con Toni Servillo\_g.1, sx/1 video
- Laboratorio con Toni Servillo\_g.1 dx/1 video
- Servillo: Stage di Tecniche d'attore Mc g.5 centr/1 video
- Servillo: Stage di Tecniche d'attore Mc g.4 centr/1 video
- Servillo: Stage di Tecniche d'attore Mc g.3 centr/1 video
- Servillo: Stage di Tecniche d'attore Mc g.2 centr/1 video



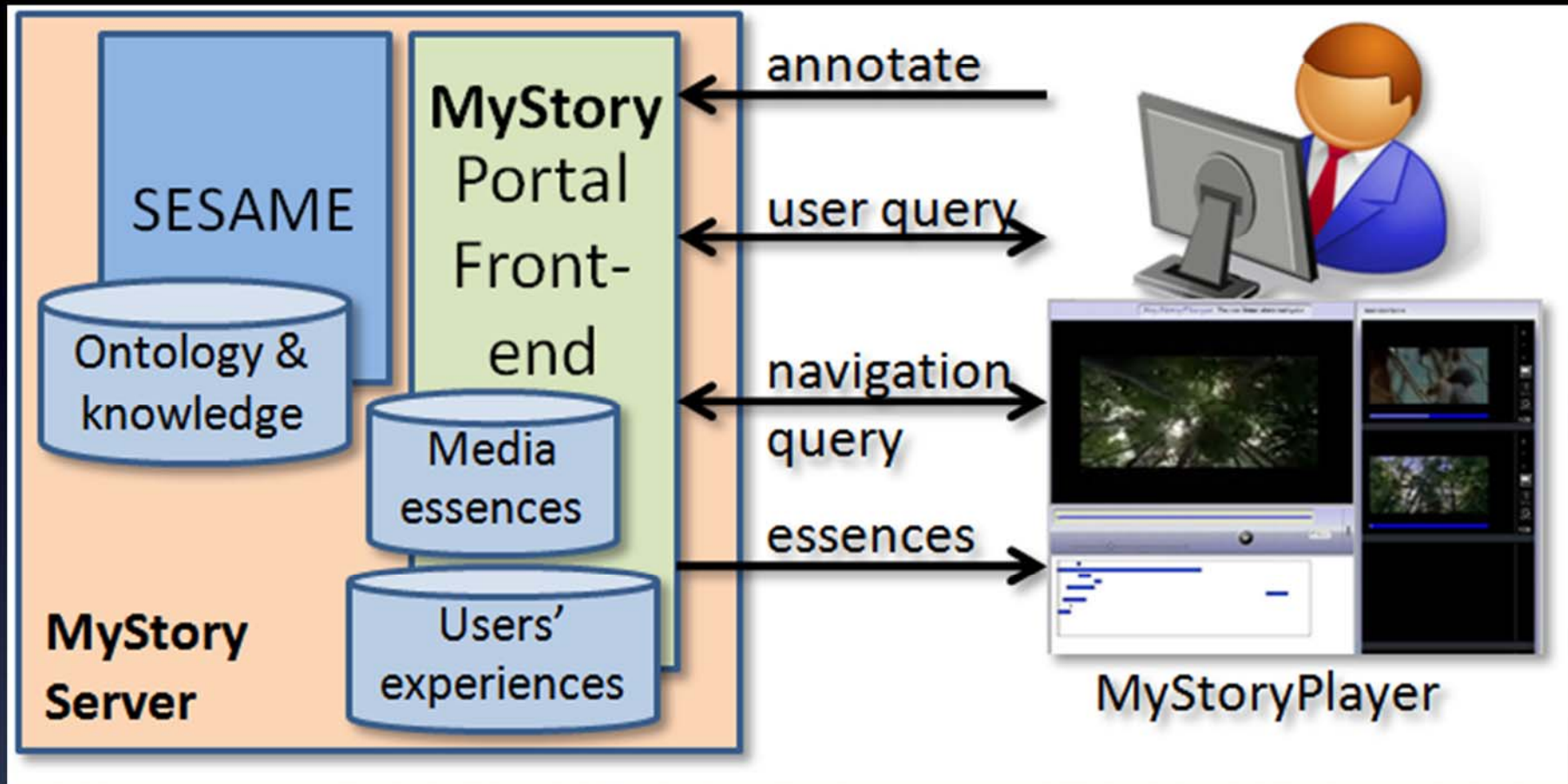
# Network of Relationships



<http://www.eclap.eu/d3/graph.html>

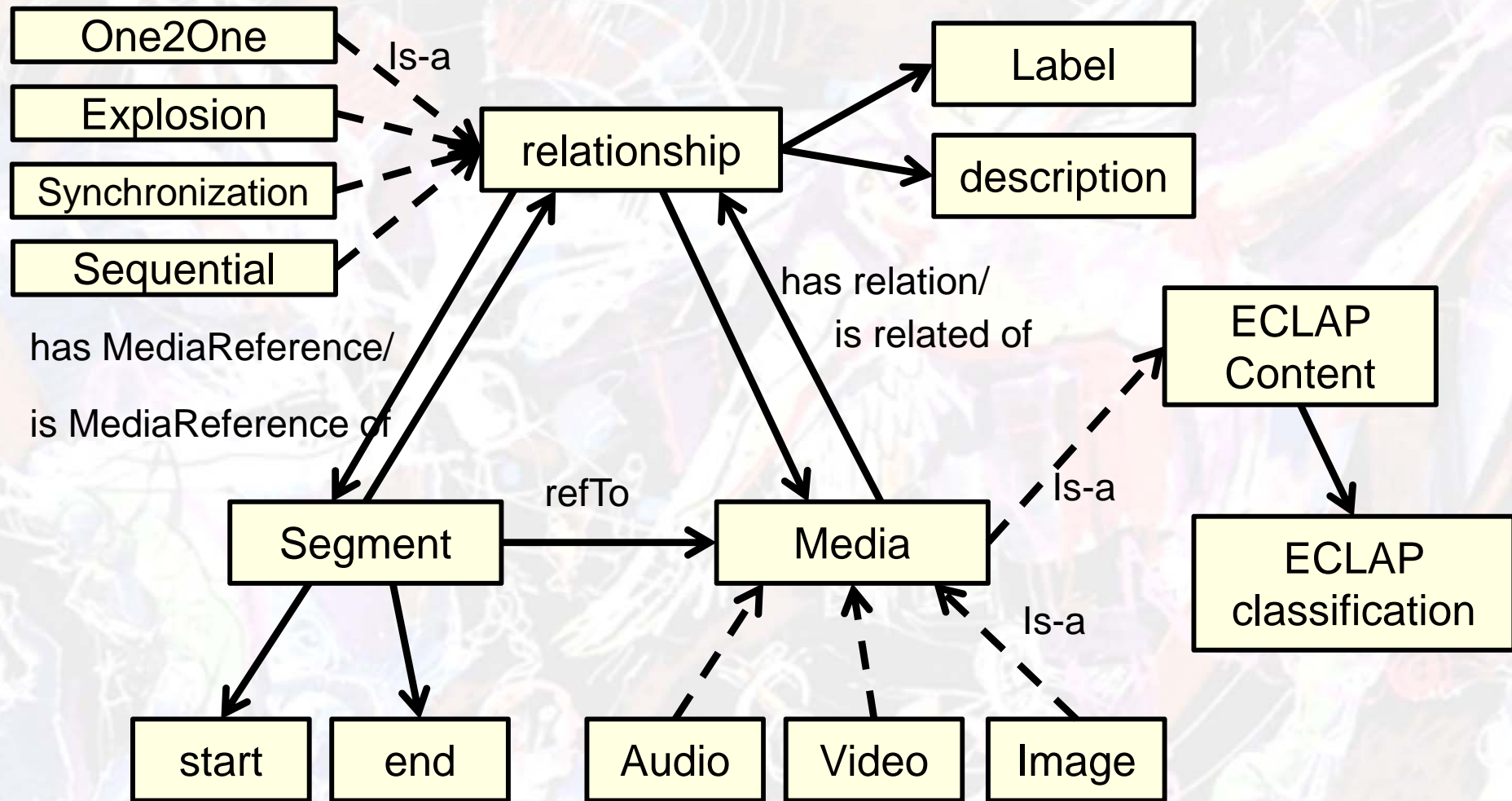
<http://www.eclap.eu/d3/graph2.html>

# MyStoryPlayer Architecture





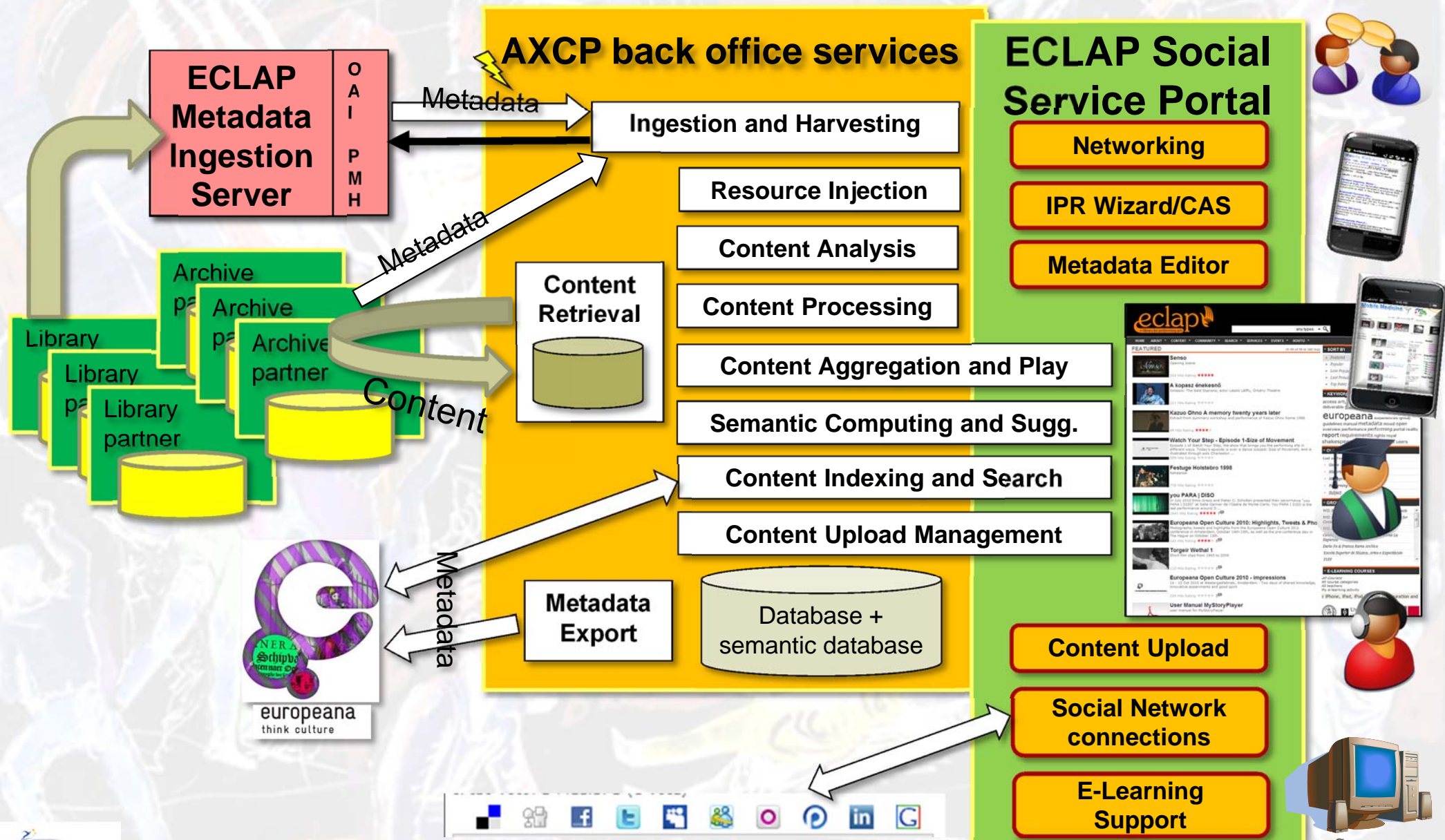
# Modello Semantico MSP



# Overview

- Objective and overview
- Networking & Tools
- Content & Tools
- ECLAP Architecture ←

# Architecture and Back-office



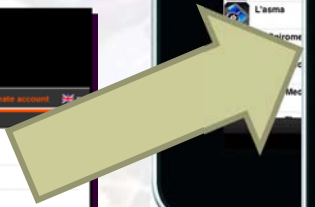
# Automated BackOffice

- **Based on AXCP Semantic Media Grid (IEEE Multimedia, April 2012)**
  - More than 15.000 files per day in the present architecture with 15 server
- **To automate:**
  - **Content ingestion** from more than 35 archives/portals, metadata and content crawling, massive content ingestion
  - **Metadata transcoding** and enrichment: from any format to ECLAP ingestion format, saving and mapping all metadata
  - **Content indexing:** more than 500 metadata, 13 languages, cross media content, algorithms for CBIR
  - **Content adaptation:** for PC, Mobile, etc. → over than 500 media types
  - **Suggestions** and recommendations production: by text, by images, by profiles;  $U \rightarrow U$ ,  $C \rightarrow U$ ,  $C \rightarrow C$ , ..
  - **Production of profiled newsletters**
  - **Assessment** of metadata quality
  - **Publication** of metadata towards Europeana
  - Export to other Social Networks
  - Etc.

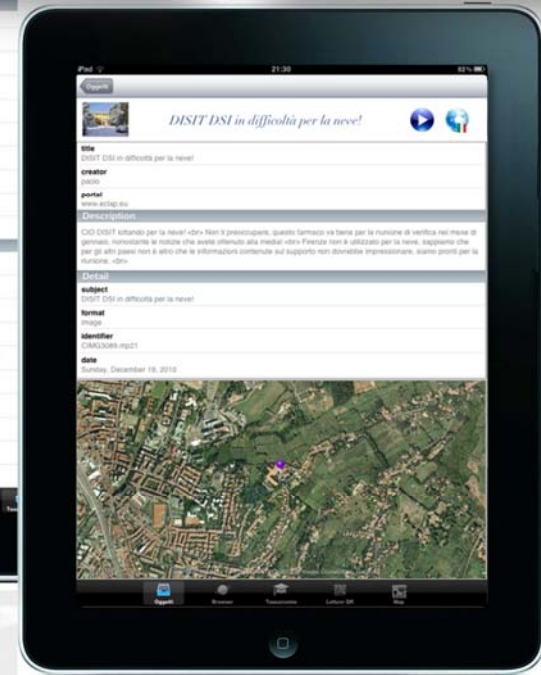
# Content Organizer on mobiles

Local:

- Content collection
- Search/query
- Navigations.. taxonomy
- Suggestions

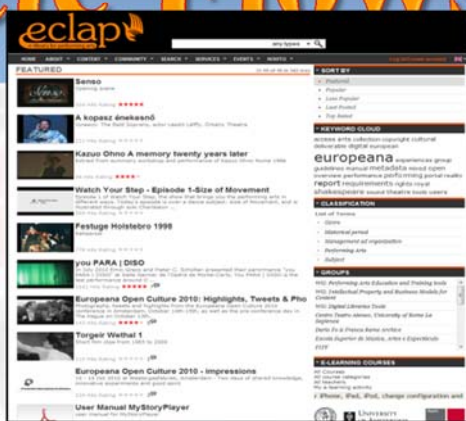


Available on the App Store



# Semantic Flows

- AXCP backoffice**
- Grid Scheduler
  - Grid Node
  - Grid Node
  - Grid Node



- Rule based system
- Automated formatting
  - Inferential engine processing
  - Adaptation
  - enrichment
- Multilingual index and search
  - Text Analysers
  - Indexer
  - Fuzzy search

- Suggestions
  - Similarity distances
  - Clustering

**AXCP BackOffice**

- User Profile
- Dynamic User Profile
  - User behavior
  - Use data
- Content
  - DC+IDs
  - AXInfo: ver, prod., rights,...
  - Descriptors
- Groups: users, content..
- Ontology/Taxonomy Domain

- Suggestions on the basis of:
  - Static and dynamic user profile, descriptors, domain

**Front End Portal**

- Local User Profile
- Local Dynamic User Profile
  - Local User behavior
  - Local Use data
- Content
  - DC+IDs
  - AXInfo: ver, prod, rights, ....
  - Descriptors
- Groups
- Taxonomy classification

**Content Organiser**

- Local Suggestions on the basis of user profiles, local content, local collected data

*contributions, actions on content, social actions, preferences, queries, use data,...*



**Content Organizer and Players Users**

# Missing issues

- IPR and access management
- User behaviour monitoring and analysis
- Social network information workflow vs user stimuli analysis
- Relationships and interoperability with other SNs
- Content Workflow Management and process
- Natural language processing of user comments
- Deployed Hardware Architecture
  - From ECLAP v0 to now....
- Other Social Networks:
  - <http://www.apretoscana.org>
  - <http://iuf.csavri.org>
  - <http://mobmed.axmedis.org> + 1

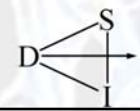
# ECLAP portal user manual

- <http://www.eclap.eu>
- This slide link: <http://bpnet.eclap.eu/drupal/?q=en-US/home&axoid=urn:axmedis:00000:obj:6f371ec5-b5d5-46e5-bd5e-a10a3e4228b4>
- ECLAP workflow and IPR wizard tools can be taken from the ECLAP user manual:
  - <http://bpnet.eclap.eu/drupal/?q=en-US/home&axoid=urn:axmedis:00000:obj:b828710e-b77c-4074-993c-3efddfbfaad7&section=pagesupport>
- Online manual/help:
  - [http://bpnet.eclap.eu/help/eclap\\_bpnet\\_user\\_manual\\_v1-0.htm](http://bpnet.eclap.eu/help/eclap_bpnet_user_manual_v1-0.htm)
- Video of the Content Organizer:
  - <http://bpnet.eclap.eu/drupal/?q=en-US/home&axoid=urn:axmedis:00000:obj:ea5eb861-18b6-4262-8d4b-77b3d3c084f0>
- ECLAP infrastructure document
  - <http://bpnet.eclap.eu/drupal/?q=en-US/home&axoid=urn:axmedis:00000:obj:a345a84f-6fdf-4f84-a412-88094ce363e2>



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- P. Bellini, D. Cenni, P. Nesi, "On the Effectiveness and Optimization of Information Retrieval for Cross Media Content", Proceeding of the [KDIR 2012 is part of IC3K 2012](#), International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, 4-7 October 2012, Barcelona, Spain.



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