#### **European Collected Library of Artistic Performance**

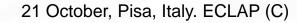
e-library for performing arts 4 http://www.eclap.eu

# The ECLAP semantic model and search capabilities

#### **Paolo Nesi**

TEL: +39-055-4796523, 567, FAX: +39-055-4796363, +39-055-4796469 Email: <u>nesi@dsi.unifi.it</u>, www: <u>http://www.disit.dsi.unifi.it</u> University of Florence, Department of Systems and Informatics, DSI DISIT-Lab, Distributed Systems and Internet Technologies Via S. Marta 3, 50139, Firenze, Italy





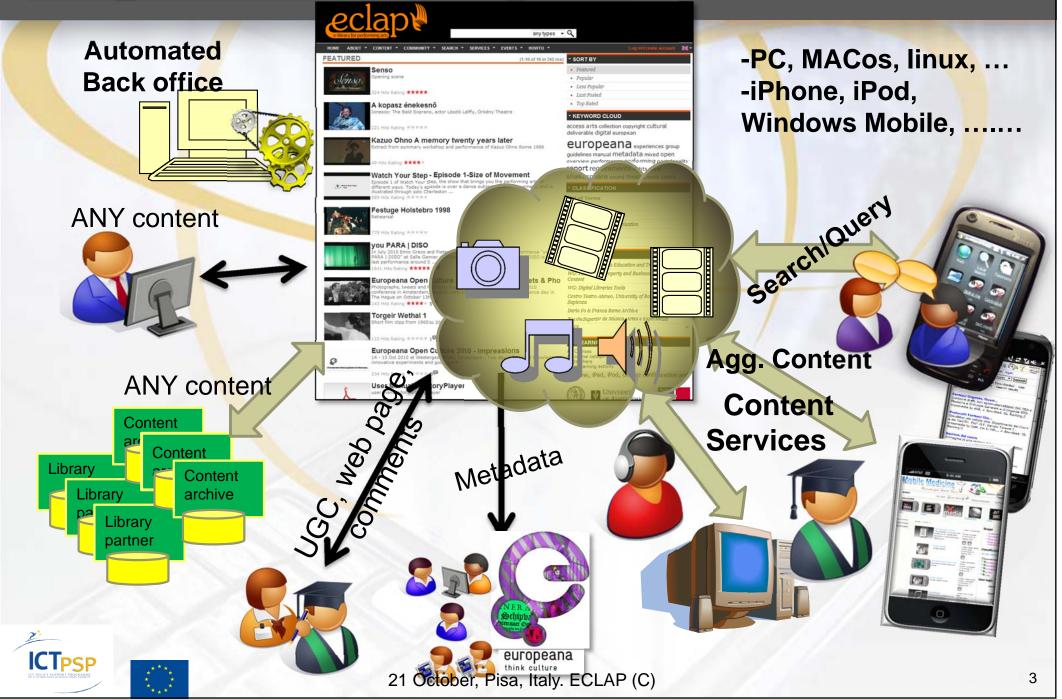












## **ECLAP** goals



**Content Aggregation** Providing content towards Europeana **Content Distribution** toward several channels For education and entertainment to PC/Mac/Linux; mobile: iOS, android, WP7 **Networking and Social Services** User groups, discussion, forums, mailing lists Connection with social network for share and contact gathering Events setup and management, mailing notifications



## **Video About the Portal**



Click to see the video about ECLAP:
 <a href="http://bpnet.eclap.eu/drupal/?q=home&axoid=urn:axmedis:00000:obj:c4b624c7-1efb-4741-8a96-f22b6a368e35">http://bpnet.eclap.eu/drupal/?q=home&axoid=urn:axmedis:00000:obj:c4b624c7-1efb-4741-8a96-f22b6a368e35</a>



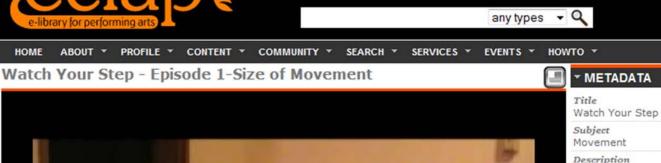


PROFILE \*

CONTENT \*

HOME

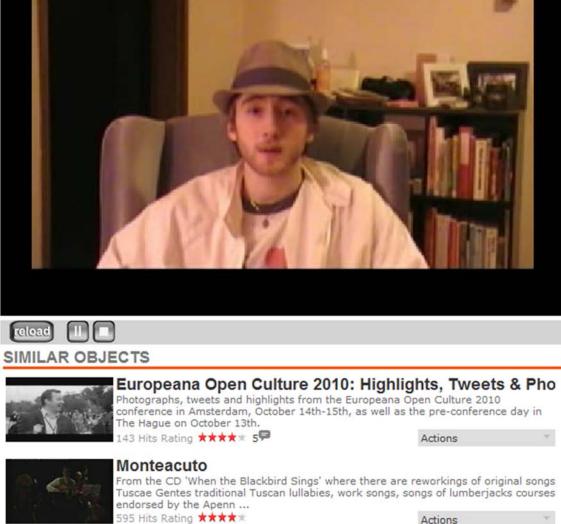
ABOUT \*



Suggesting Similar **Objects!** 

#### Similarity metrics

#### Several actions..



Watch Your Step - Episode 1-Size of Movement

paolo Exit 💥 🔻

Episode 1 of Watch Your Step, the show that brings you the performing arts in different ways. Today's episode is over a dance subject: Size of Movement, and is illustrated through solo Charleston. When you're done watching, head over to our blog: http://chknfoot.blogspot.com/ Original can be found on http://www.archive.org/details/WatchYourStep-Episode1-sizeOfMovement 274. Creative Commons license: Attribution 3.0 United States

#### Technical Classification IPR information

#### SORTBY

#### \* ACTIONS

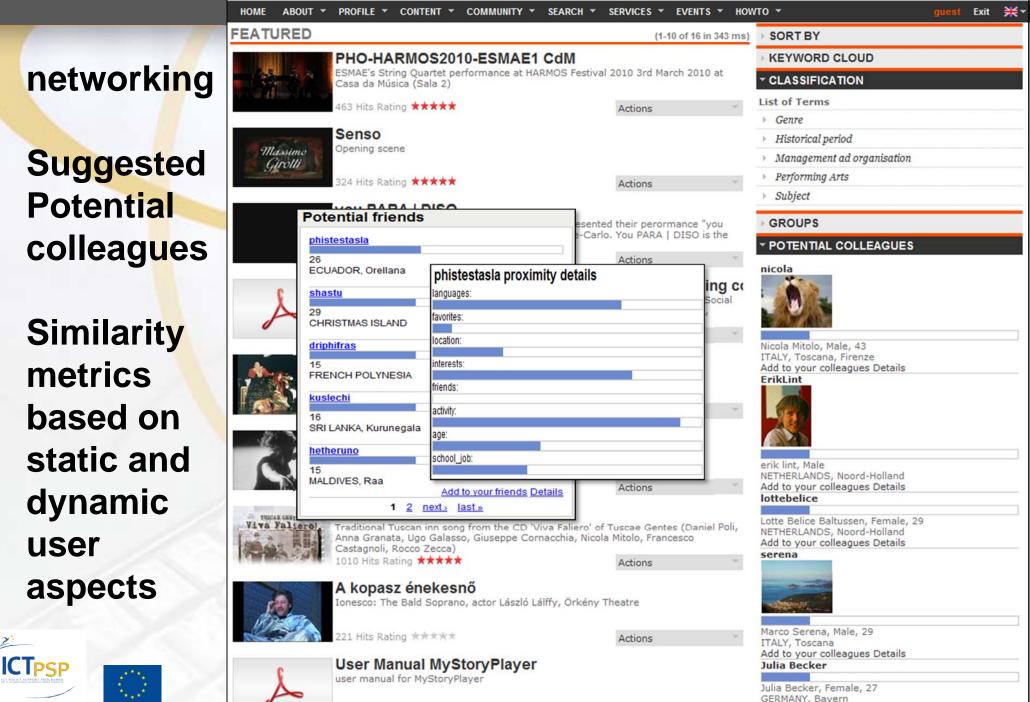
Average: \*\*\* not yet ranked, be the first one to rate this content. 0 G Add Annotation Recommend Add to Playlist Mark as favorite Mark as featured Download for PC Download MPEG21 for PDA Windows Mobile 6.5 Download MPEG21 for PC View for PC View MPEG21 for PDA Windows Mobile 6.5 View MPEG21 for PC

time: 118 ms ()

COMMENTS



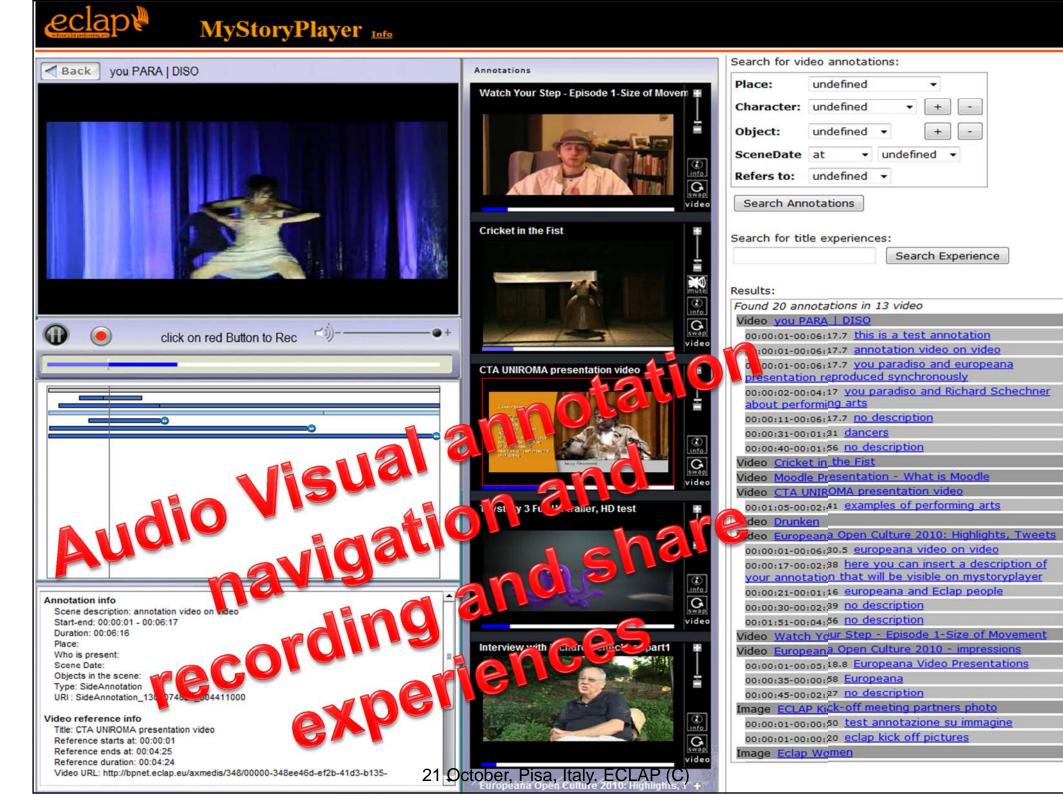
any types 🔹 🔍



# e-library for performing arts

2

	e moral y for performing and	ny types 🔽 🔍
	HOME ABOUT T PROFILE T CONTENT T COMMUNITY T SEARCH T SERVICES T E	y types chive TO ▼ paolo Exit ₩▼
-	SEARCH RESULTS (1-10 o blo	the second
A large set of content item formats >300	Semantic Processing and Management for Multi         Scenarios, Multichannel Social Mobile Medicine, Architecture for Multichan exc         Management, Mobile Medicine Content, Content Access and technical requirements, Intelligent content, AXMEDIS format; Rec         407 Hits Rating ★★★★★         Actions         Releva         Group         13 Hits Rating ★★★★★         Actions         Requirements Meeting, Sept. 2010, 1 of 4, Rome, from 9,30 to 11,30	Dessmedia Resource category   Image Format   Image Image   Image
A large	Europeana Data Aggregator Agreement FINAL         Europeana data aggregator agreement available in the Europeana portal         19 Hits Rating ****       Actions         Relevance         EUROPEANA Aggregators' Handbook         The overall aim of the handbook is to provide sufficient information to aggregator	Content language
set of faceted	that wish to submit data to Europeana and become sustainable partners of t service. The handbook first addresses t 31 Hits Rating ***** Actions Relevance	the Italian (6) © Dutch (3) © French (2)
results	TEST - Image from A Midsummer Night's Dream, B         Image from A Midsummer Night's Dream, Barton/Napier, Royal Shakespear         Company, May 1977 Tom Holte : photographer Theatre: Royal Shakespeare         Theatre Company: Royal Shakespeare Company Ri         6 Hits Rating ****         Actions         Relevance	re Theatre Video quality available   Device
	Moodle Presentation - What is Moodle A brief presentation of Moodle, an open source learning management system (www.moodle.org) , updated 4th Feb 2010.	Original metadata language
2	45 Hits Rating 大大大大大 Actions Relevance	> SORT BY
	Collaboration and the Europeana Group of Projects Meeting, "The Haque, 29 September 2010 21 October, Pisa, Italy. ECLAP (C)	KEYWORD CLOUD     CLASSIFICATION     B



## **VIDEO about MyStoryPlayer**



Click to see the video about Audio Visual Annotation MyStoryPlayer presented at the opening event the 20 October 2011 with Dario Fo and Franca Rame, Rome:

http://bpnet.eclap.eu/drupal/?q=home&axoid=urn:a xmedis:00000:obj:d1910096-ed41-44b4-af8af57545526702



## **Content Organizer on mobiles**

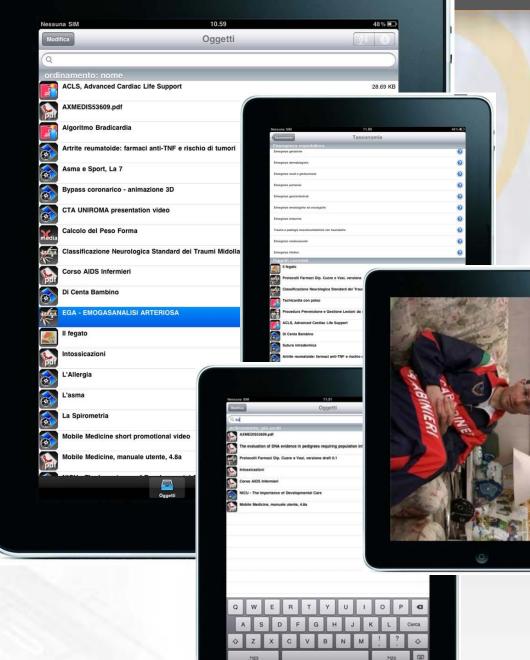
#### Local:

**ICT<sub>PSI</sub>** 

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

### 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 content kinds**



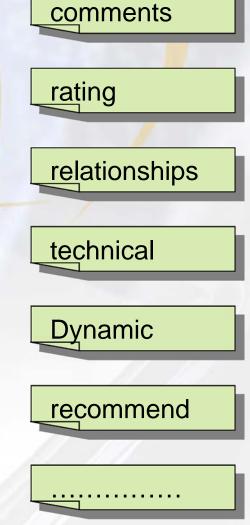
#### General

blog, web pages, events, help, forum, wiki, etc..

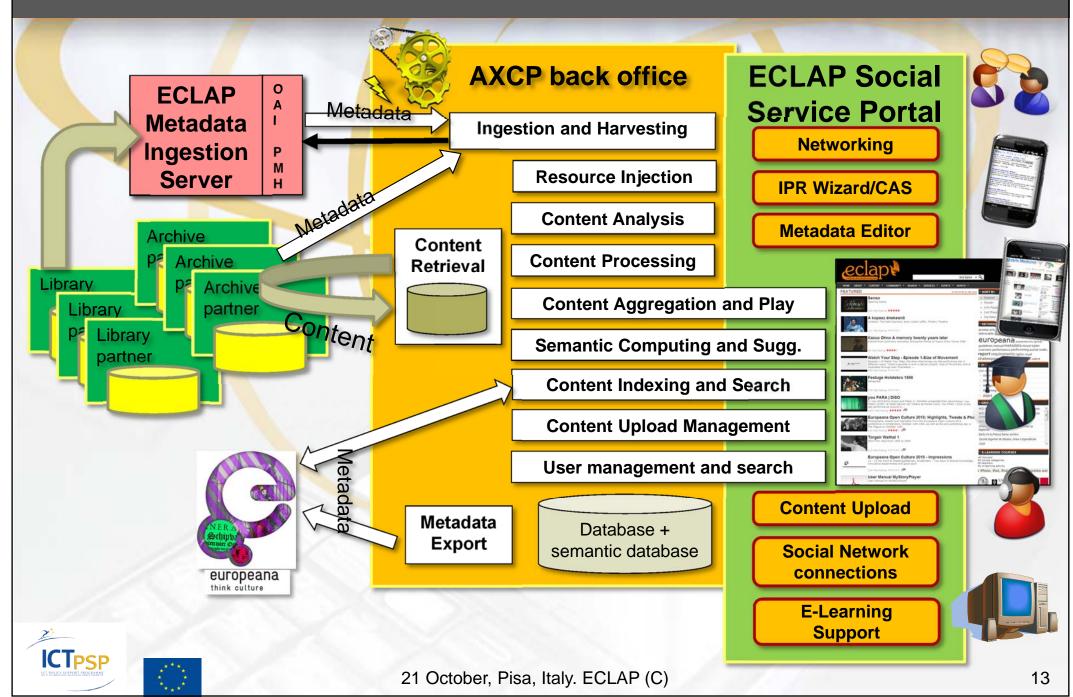
Content

- audio, video, images, doc, animations, ebook/epub, mpeg-21, smil, html, doc, docx, ppt, pptx, zip, web pages, etc..
- Aggregations
  - Collections, playlists, courses, annotations
- Enrichment
  - Tags, taxonomy, comments, translations
- **Networking Group** 
  - users, groups, friendships, behavior
  - discussions: forum, comments, blog, ...
  - groups and users' web pages

#### Workflow

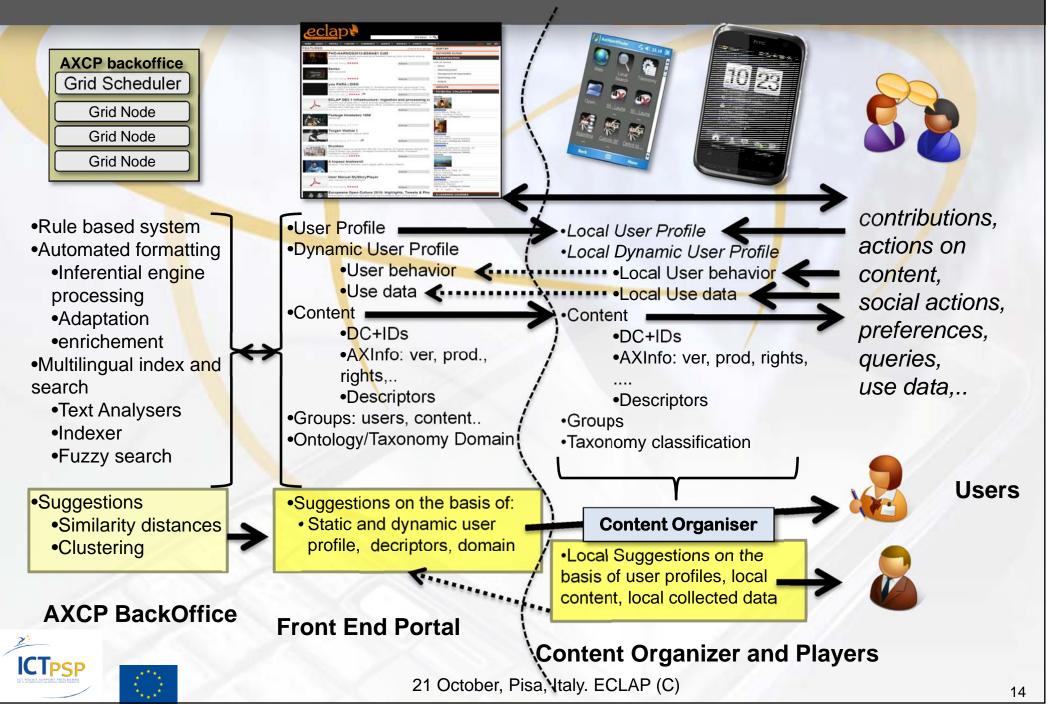


## **Architecture and Back-office**



## **Semantic Flows**





## **Semantic Modeling/Reasoning**



#### Multiple heterogeneous kind

#### Semantic Model for content:

Multilingual Metadata: General, Classification, Technical, Performing Arts, Workflow

- Aggregations: playlists, collections, courses, ...
- Enrichments: comments, annotations, tags, ...

#### User Modeling, user behavior analysis and profiling

Integration of static and dynamic profiling: action, friendships, featured, preferred, collections, commented, votes, etc. etc.

#### Semantic reasoning:

• Exploiting semantic model of content and user profiling for analyzing and producing suggestions:  $U \rightarrow U$ ,  $O \rightarrow U$ ,  $O \rightarrow O$ , etc.

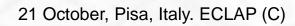
Automated and scalable back office, content processing

- Content file ingestion, repurposing for any device, managing media and cross media content: any content/format kind, >500 file formats
- Executing semantic computing algorithms (see IEEE Multimedia)

## **ECLAP Metadata Mapping**

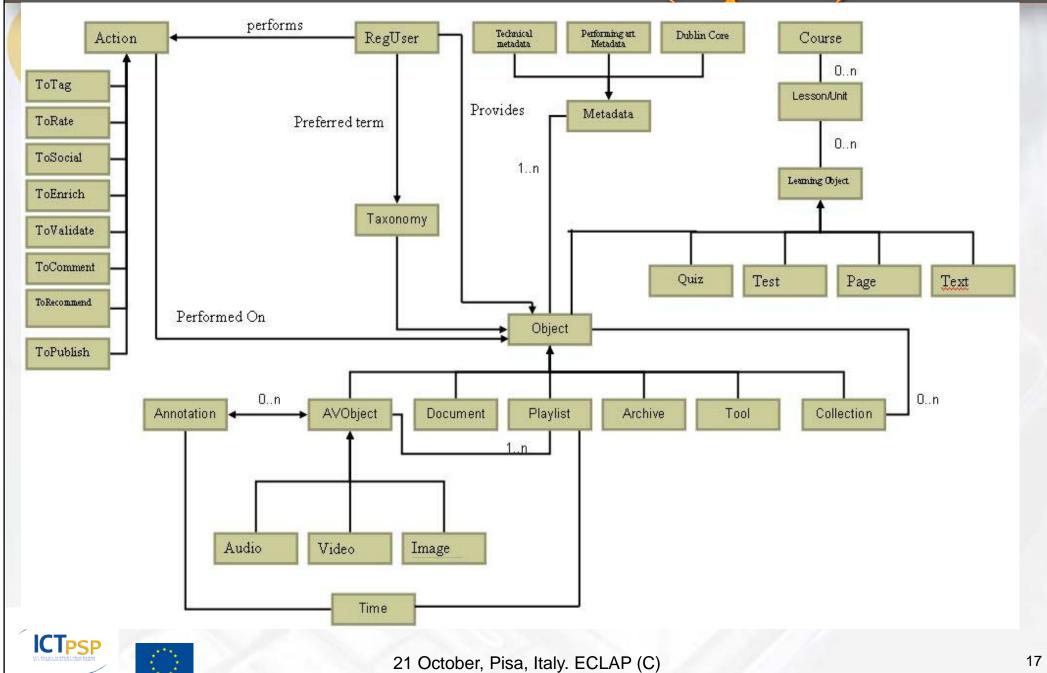


	ECLAP semantic	<b>Europeana ESE</b>	Europeana EDM
	model		
Dublin Core	100% (and	100%	100% (multilingual)
	multilingual)		
Performing art	>59 additional fields	0	Work by DSI is in progress
metadata			for the mapping
Technical	>25 technical	0	Work by DSI is in progress
metadata of	information		for the mapping
different kind			
Aggregation	About 4 (playlists,	0	Work by DSI is in progress
information	collection, sync,		for the mapping
	courses, etc.)		
workflow	Different workflows	0	
Right and	Europeana.rights and	Only	Work by DSI is in progress
licensing	use licensing, license	Europeana.rights	for the mapping
	url, etc.	element	
total	Much more with	Mapping at 100%	To be assessed
>>	respect to ESE		

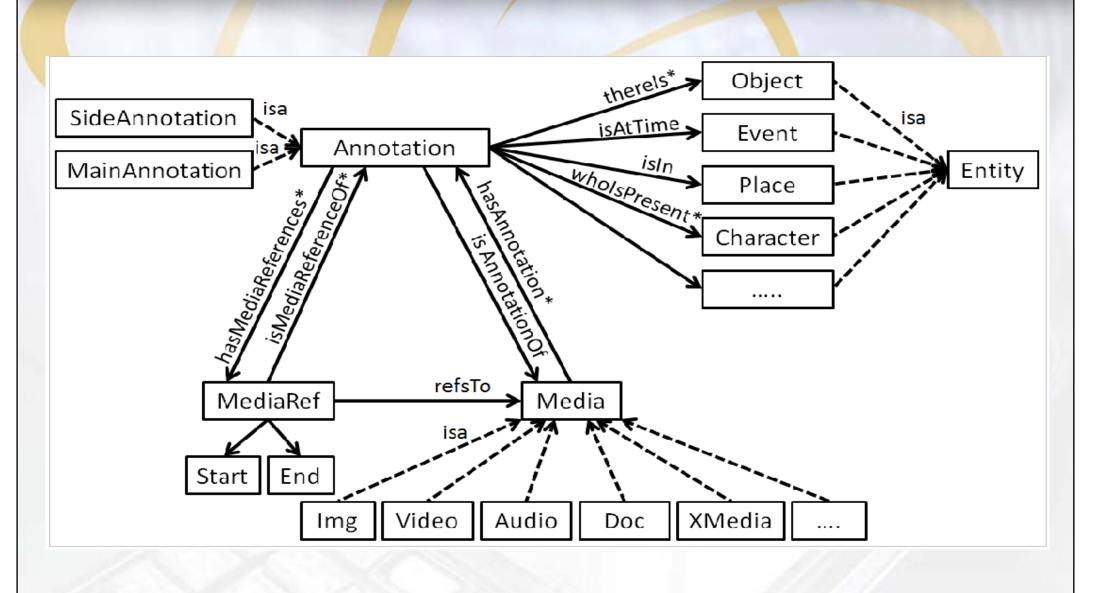




### Semantic Model (a part)



# MyStoryPlayer Semantic Modeleclap



21 October, Pisa, Italy.

**ICT<sub>PSP</sub>** 

## **Search capabilities**



#### **General frontal search**

- Large range of content kind, any language, etc.
  - Possible activation of the deep search
- Results: faceted and sorted
- Specific / Advanced search capabilities
  - per language, per provider, etc.
  - And/Or composition of a large range of metadata
  - MyStoryPlayer: Annotations and Experiences
  - Filtering content per workflow metadata
  - Groups Search
  - User Search
    - Search and browse on Mobile

## **Indirect Capabilities**



#### **Offered Browsing List**

- General Lists: most accessed, last uploaded, highly rated, featured, ...
- Your Lists: your content, content of your friends, your playlists, your collections, your preferred, suggested objects, your featured, .....
- Your groups, your friends, etc...

#### Browsing via

- Taxonomy/SKOS
- Groups and channels
- Subscriptions profiled:
  - Newsletters, notifications

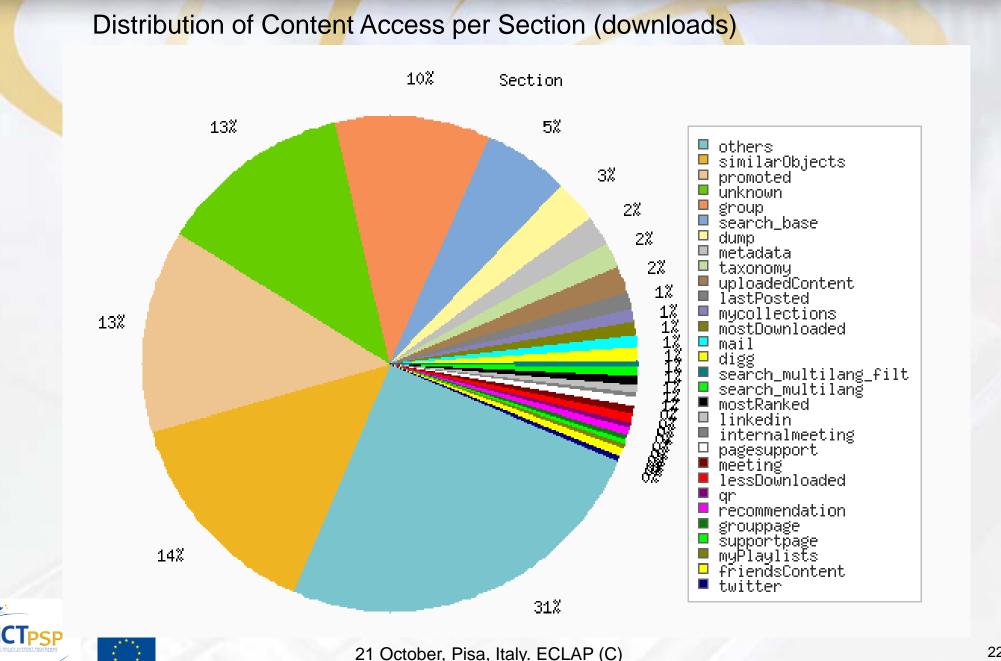
### **Assessment and validation**

eclap

- Logs accesses: downloads and play
- Logs queries and appreciation
- Logs user actions, browsing, …
- Contextualized Pop Up questionnaire to collect user view
- Specific assessment and validation sessions with set of users
- Access to all above details at the administrator level
- Access to statistical analysis for Group Coordinator:
  - Content Upload and Access
  - Content Enrichment
  - Social promotion, Networking
- Access to statistical analysis for regular registered user
  - Content Upload and Access
  - Content Enrichment
  - Social promotion, Networking

### **Example:** last month statistics on accesses

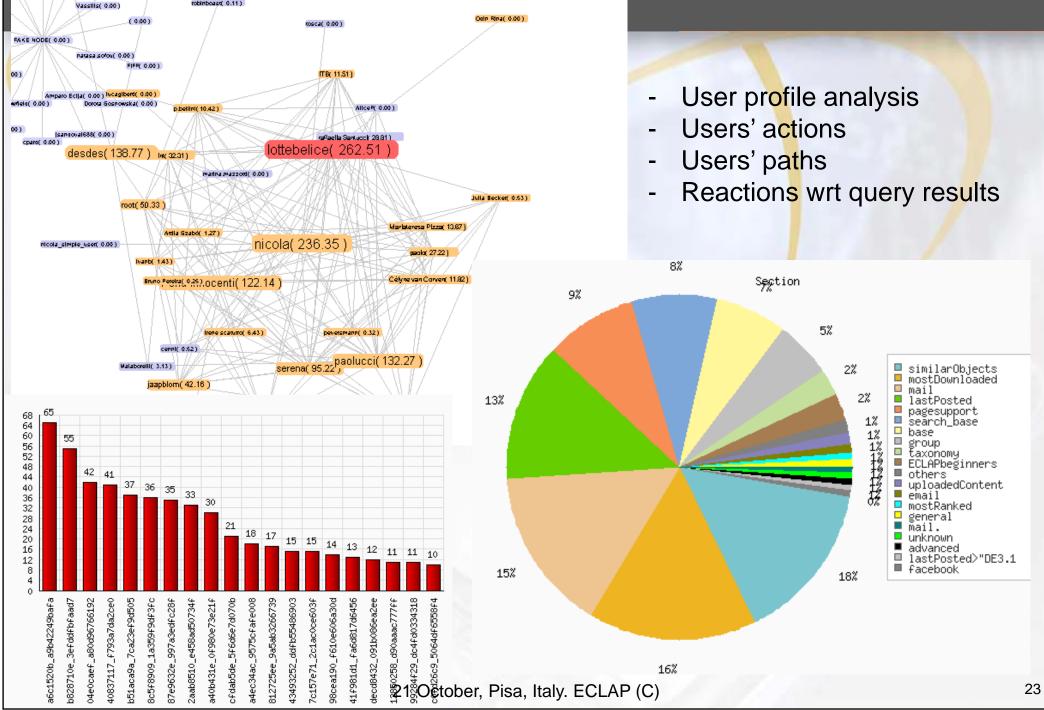




### User behavior analysis

robinboast( 0.11)





# **ECLAP Coordinator**



### Prof. Paolo Nesi, Ph.D.

DISIT-DSI, Department of Systems and Informatics Distributed Systems and Internet Technology Lab University of Florence Via S. Marta 3, 50139 Firenze, Italy Email: <u>nesi@dsi.unifi.it</u> Tel: 0039-055-4796532 Cell: 0039-335-5668674 Skype: paolonesi

