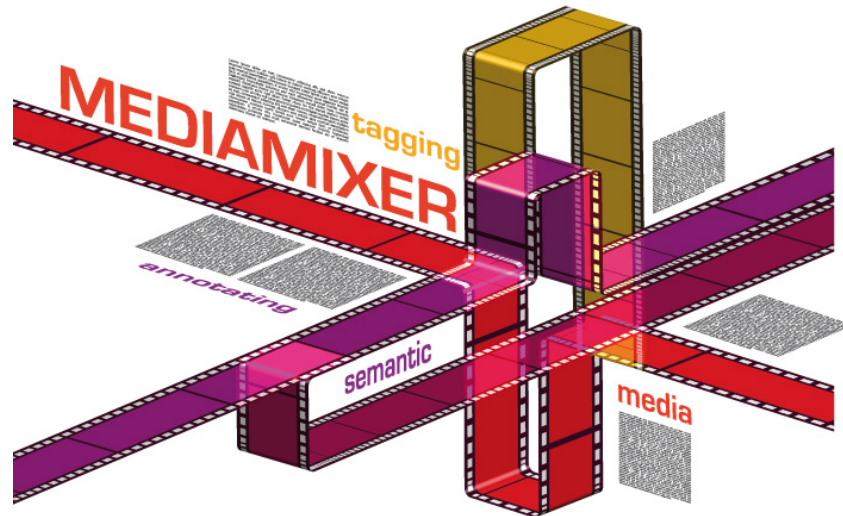


VideoLecturesMashup



Tanja Zdolšek, Jožef Stefan Institute + VideoLectures.NET
&

Lyndon Nixon, MODUL University Vienna GmbH

April 24, 2014. OCWC Global, Ljubljana, Slovenia

 <p>[syn] 961 views, 4:58:54 Latent Variable Models for Document Analysis Wray Buntine</p>	 <p>127 views, 1:07:06 Lecture 14 - Backward induction: commitment, spies, and first-mover advantages Benjamin Polak</p>	 <p>Poster Spotlights Detecting and Sketching the Common S. Bagon Ch. Brostic [syn] 878 views, 19:41</p>	 <p>1:04:47 Religion and the Election: What Do We Think We Know? Shaun Casey, Alan Wolfe</p>	 <p>108 views, 1:07:14 Lecture 4 - Portfolio Diversification and Supporting Financial Institutions (CAPM ... Robert J. Shiller</p>	 <p>55 views, 28:34 Clustering Dynamics Through an Emerging Market Crash in the Global ... Diane Wilcox</p>
---	--	---	--	---	---

WATCHING NOW

- Topic Models - VideoLectures.NET
- Probability, Information Theory
- Modeling Social and Information Networks:
- Alternating Direction Method of Multipliers -
- On The History of Ugliness -

SHOW CHAT

CATEGORIES

- Architecture (131)
- Arts (208)
- Astronomy (73)
- Biology (419)
- Business (1136)
- Chemistry (169)
- Computers (461)
- Computer Science (9234)
- Earth sciences (25)
- Environment (187)
- Events (436)
- Health Sciences (33)
- Humanities (498)
- Life Sciences (31)
- Mathematics (586)

NEWS

Join us at OCWC Global Conference 2014 in Ljubljana April 4, 2014

The OCW Consortium global conference is the annual opportunity for researchers, practitioners, policy makers and educators to deeply explore open education and its impact on global education. The event is taking place in Slovenia, Ljubljana, 23-25 April and will feature keynotes on Artificial Intelligence in open education, dissemination, research and policy tracks and launch of OpeningupSlovenia.

Nobel Laureate Speakers section Jan. 13, 2014

We have created a very special session comprised of Nobel Prize-winners for your digestion. We do hope you will enjoy it!

Happy 2014, and let's learn more! Dec. 23, 2013

Dear VideoLectures friends, We hope your 2014 is off to a phenomenal start! We will have loads of new lectures rolling out in the next months and even more later in the year. Go ahead and make a list of the speakers and conferences you wish to see and you might be surprised by who else you'll find sharing the ...

50 new talks from ISWC 2013 out now! Nov. 28, 2013

ISWC has for many years now been the premier international forum, for the Semantic Web and Linked Data Community. Check this years' talks on the ISWC video channel.

OCWC 2014 call for papers deadline Nov. 25, 2013

Dear all, we are sure many of you have papers ready to hand for OCWC Global 2014 call for papers, so the deadline of Dec 1 shouldn't be a problem... It would be great to see our VideoLectures community members in Ljubljana next year, so please submit from your institution on open access, open educational resources and the like.

Just published: The 27th AAAI Conference on Artificial Intelligence (AAAI-13) Nov. 15, 2013

NEWSLETTER

Subscribe to our newsletter to receive digest of activity

Your Email:

RECENT EVENTS MORE

European Data Forum 2014 - Athens



European Data Forum (EDF), Athens 2014

The European Data Forum (EDF) is an annual meeting place for industry, research, policy makers, and community initiatives to discuss ...

BBCI Winter School 2014 - Berlin



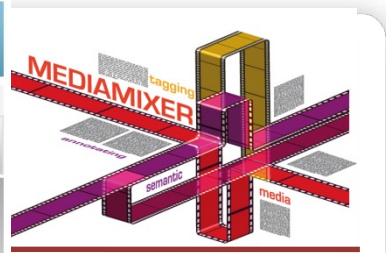
BBCI Winter School on Neurotechnology, Berlin 2014

Brain-Computer Interfaces (BCIs) and alternative applications of Neurotechnology based on sophisticated data analysis methods have become an active and flourishing ...

RTK 2014 - Ljubljana



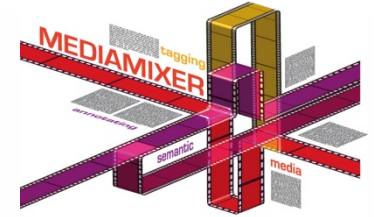
RTK 2014 - Tekmovanje ACM v znanju računalništva



- Start: support service
- Now: largest web portal with video edu&open access
- 18.500 videos (1-1,5h)
- 11.900 authors
- 10.000 unique visitors/day

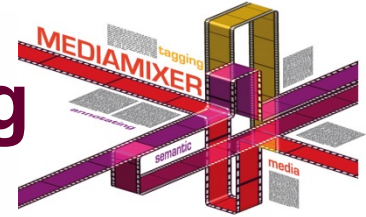


Facts



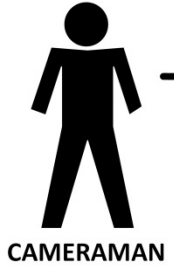
- Informal learning channel
- Promoting science, fostering knowledge
- OER
- Mobility
- Award-winning
 - UN WSA for „e-science & technology“
 - 2009 – WSA, 2013 – WSA of the decade
- Aims

Media creation & re-use in e-learning

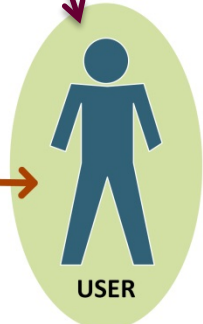
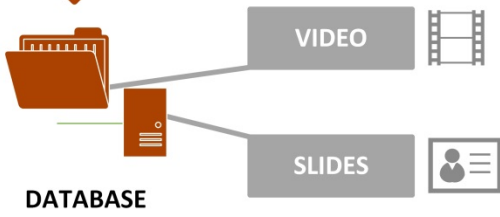
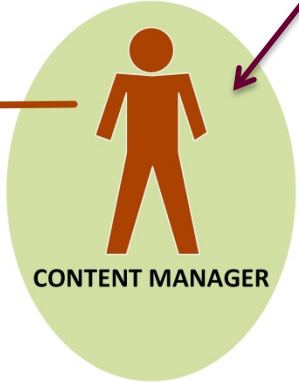


- E-learning materials are increasingly multimedia: more video recordings, more accompanying materials such as slides
 - E-learners need to be able **to search and retrieve** the material they are looking for (based on its subject)
 - Consumption trends towards mobile and on-the-go means interest **focuses on the parts of the material** of particular interest

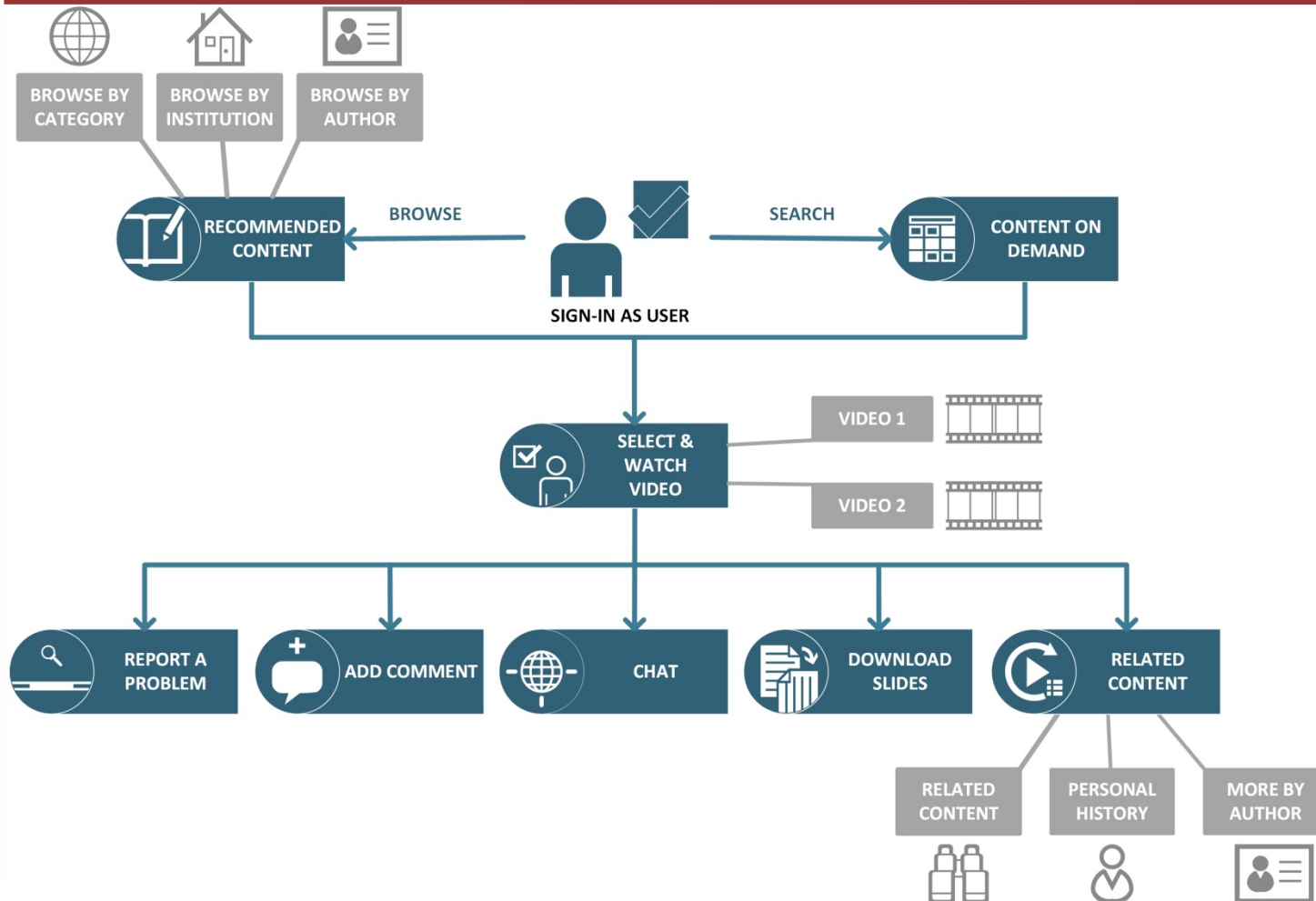
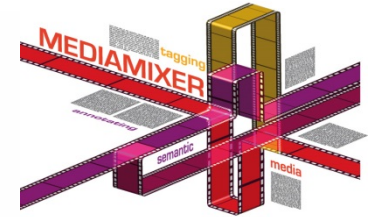




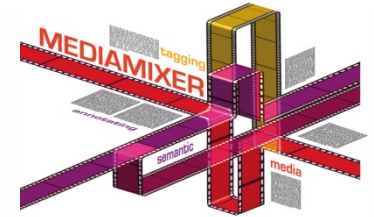
VideLectures MashUp



Current USER workflow



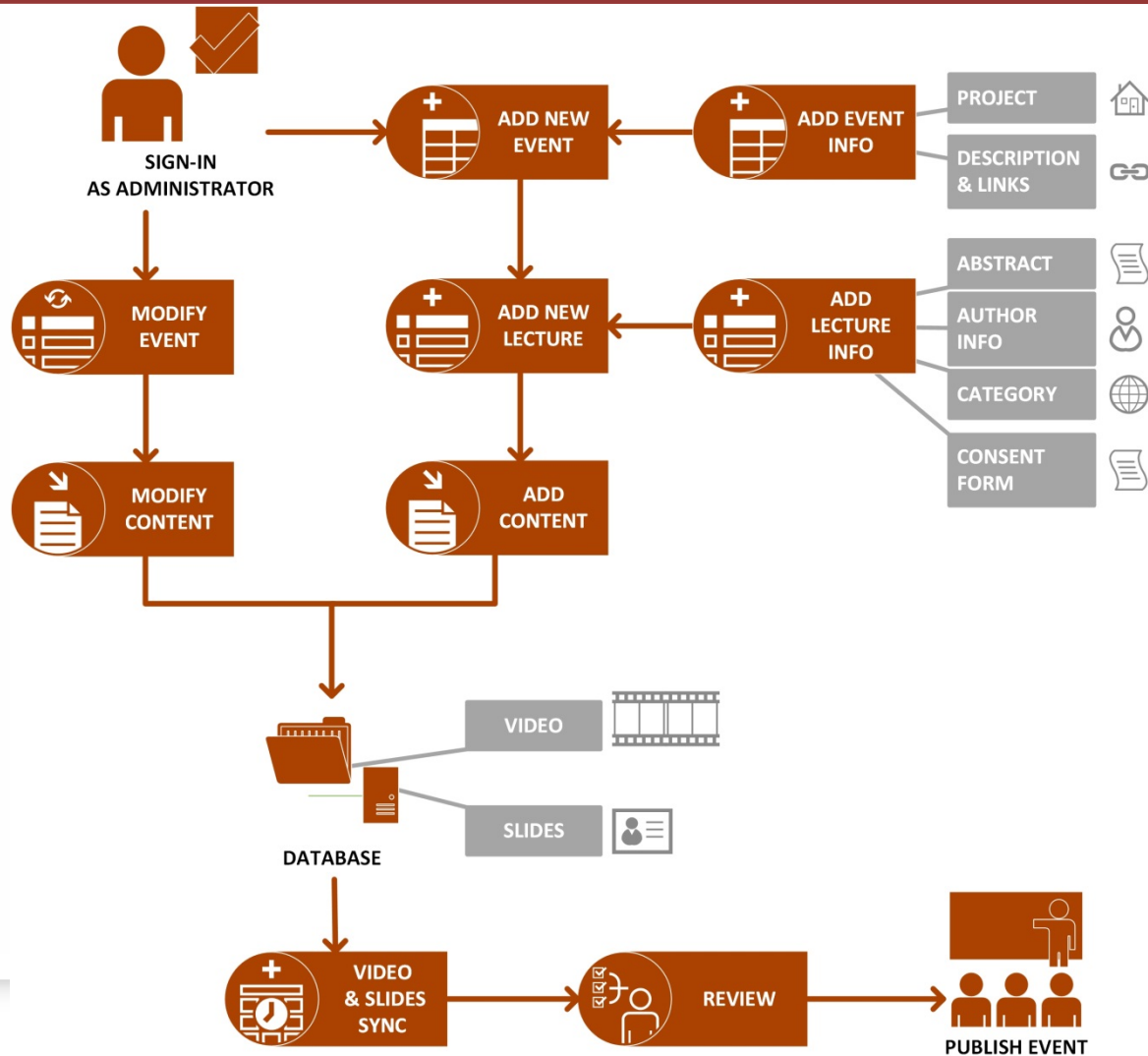
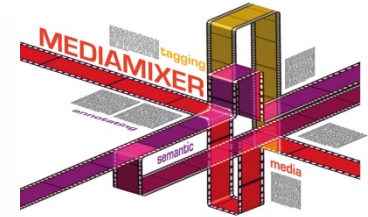
Problems



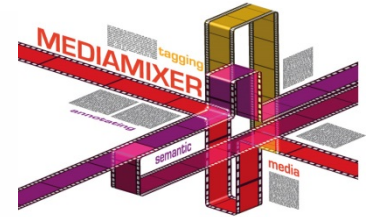
- Search (text matching only over titles, descriptions)
- Users looking for learning materials on specific topics - unique requirements
- Users looking for very specific information - fragments, not entire lectures
- Lack of time for watching, the need for mobile version
- The need for meaningful structures, curriculums
- Videlectures.NET strategy includes continuous introduction of new technologies - important initiative to provide users with access to the semantically enriched content fragments...



Current CM workflow



Problems



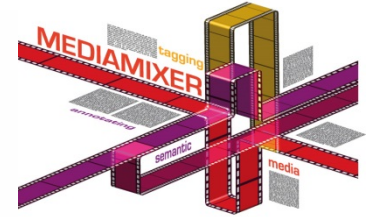
- From manual to automatic
- Save CM's time, employer money
- The need for new functionalities

(automatic textual transcriptions from speaker audio, translations (FP7 transLectures), concept extraction from slides (not just titles but textual content), video analysis, semantic annotation - video annotation process, segmentation...)

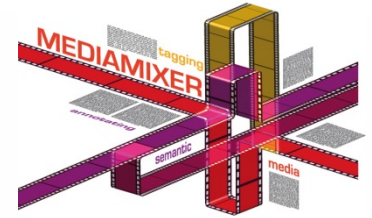
- Manually make meaningful structures, curriculums (takes too much time!)



Benefits from new technology



- **Simplify** existing workflows
- **Improved** search and browsing in general and **retrieval of fragments**
- Fragments of learning materials from the site, ordered in a meaningful way
- **Content on demand**; easier and quicker access to specific topics of interest
- Direct intuitive access to a **single learning channel** built around the topic searched for
- Producing **new learning materials - curriculums**
- Content specifically **addressable** and hence **bookmarkable/saveable** for subsequent reference and viewing
- **New contexts** -> dynamic provision of such learning resource would be particularly useful in mobile consumption contexts
- These could subsequently form **new distribution channels** for VideoLectures (e.g. video streams / TV channels on selected topics)
- This could drive to **more repeated access and win new users!**

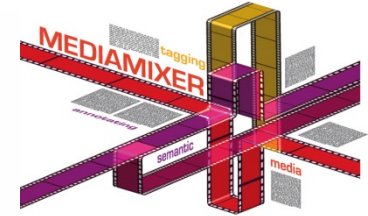


MediaMixer Project and VideoLectures MashUp

How media fragments and their re-mixing
can enable new experiences for e-learners



The MediaMixer hub



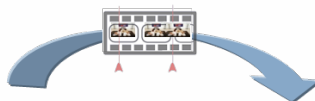
AV Content Provider



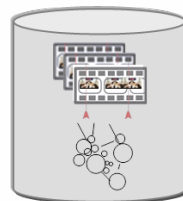
- 1) AV material analysis and annotation
- 2) Fragment Definition
- 3) Rights and Cost Assignment



- 4) Fragment Upload
- 5) Clearing (Sell)



Media Mixer Repository



annotated & linked Media Fragments

AV Content Demander



- 6) Search. Browsing
- 7) Rights and Cost Assessment
- 8) Download



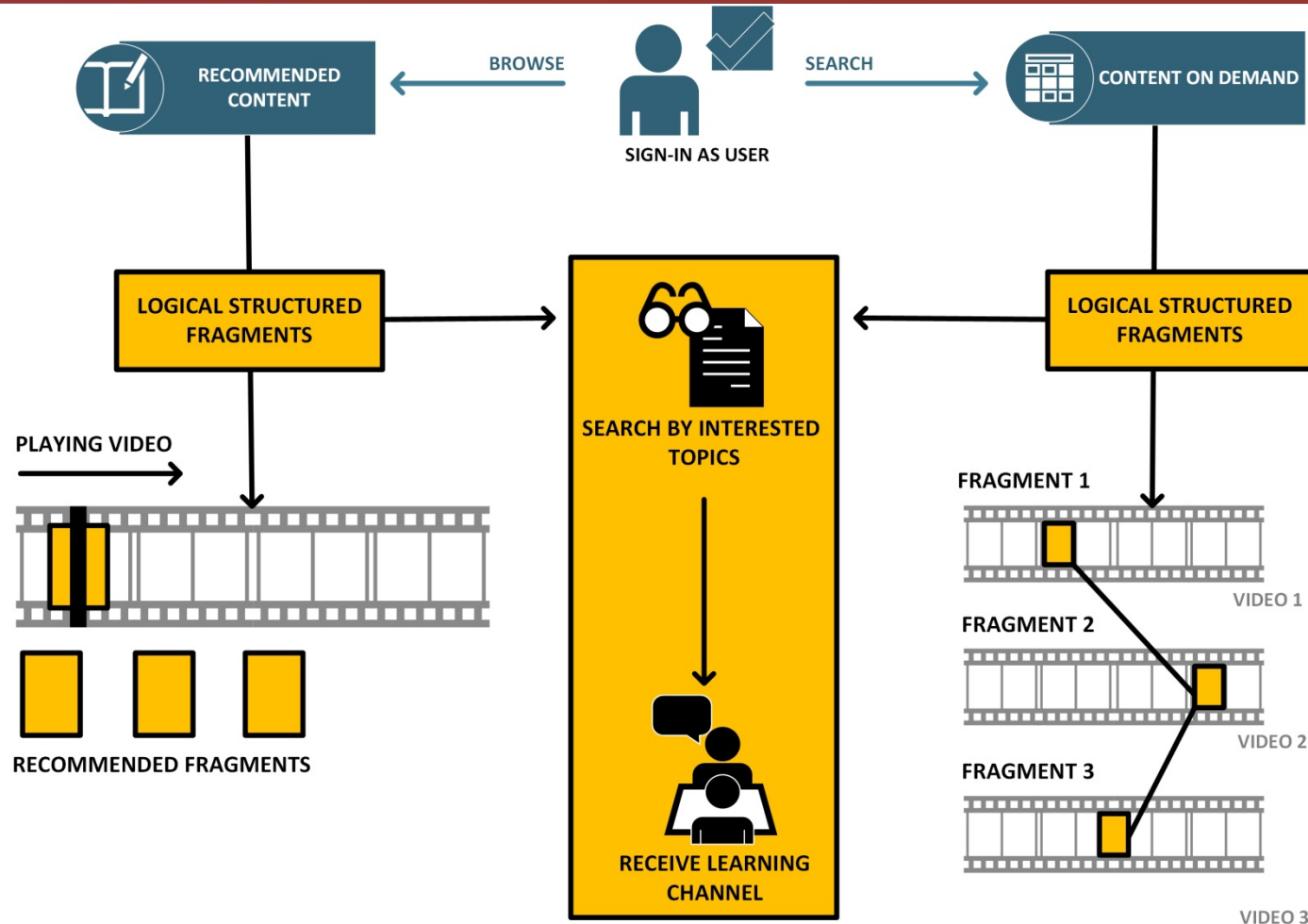
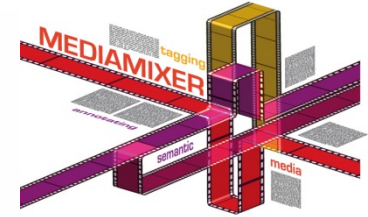
- 9) Composition of new AV materials
- 10) Clearing (Buy)



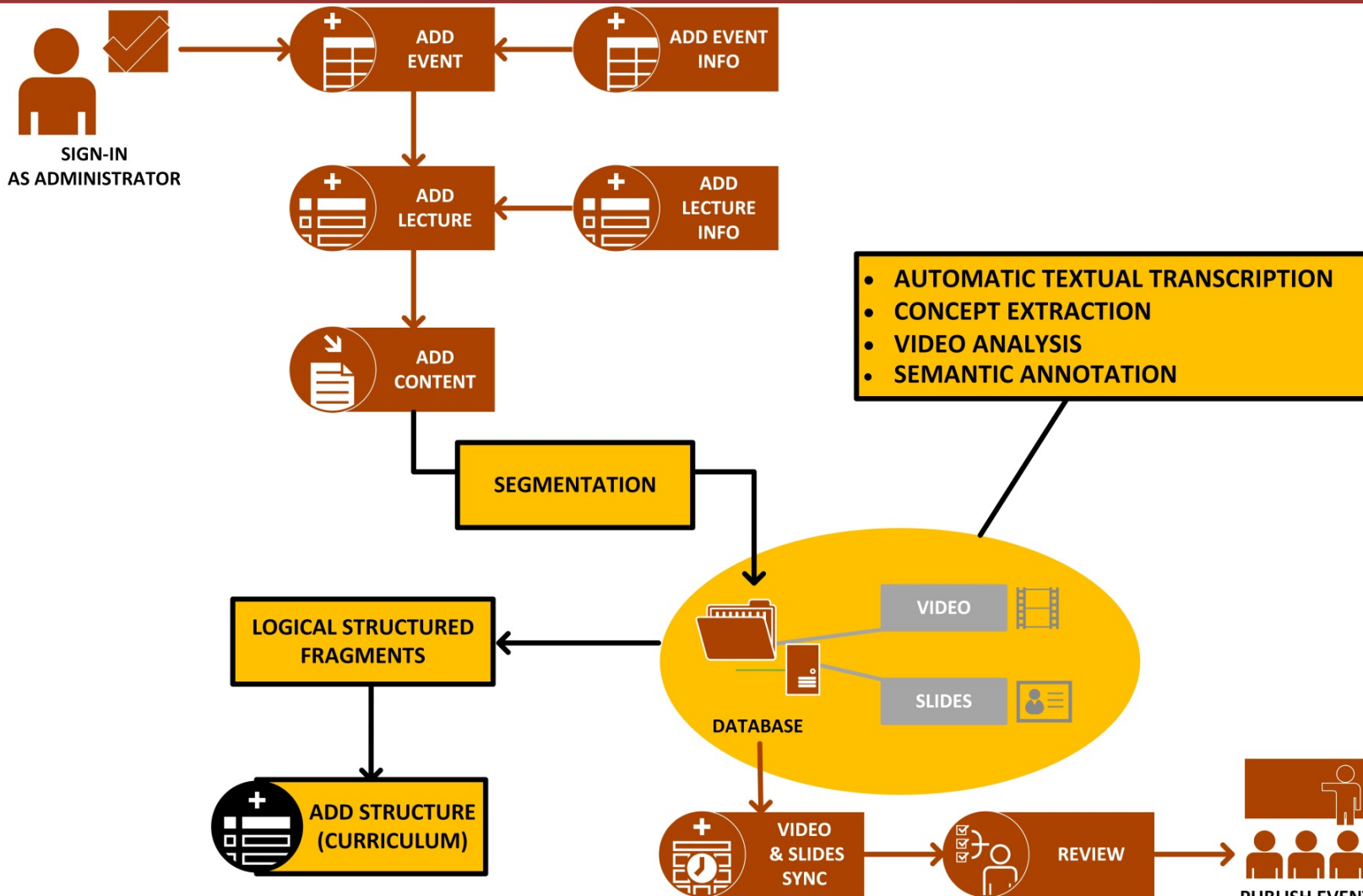
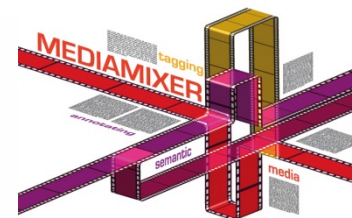
- Video analysis tools
- Video annotation tools
- Video metadata creation and publication
- Digital rights management
- Media search and retrieval
- Media negotiation, purchase and re-use



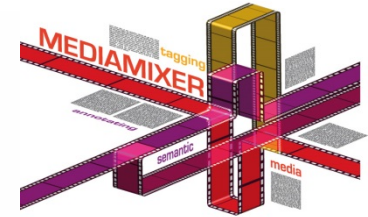
New User Workflow



New CM Workflow



VideoLecturesMashup - demo



<http://mediamixer.videolectures.net>



Search lectures

Longer shots

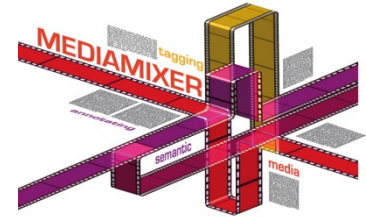
Search for a correct DBpedia title, like `Statistics`, `Machine learning`, `Kernel methods`, `Structure`, ...

MediaMixer | Community set-up and networking for the reMIXing of online MEDIA fragments

Co-funded by the European Union, Nov 2012 - April 2014

© Jožef Stefan Institute, VideoLectures.NET, Viidea





Intelligence agency

Longer shots

Search results: Intelligence agency (Intelligence_agency)

The New War Against Terror
Noam Chomsky, 2001 (114 views)
t=3072.05,3078.05 t=3084.18,3089.51 t=4106.05,4110.91 t=4495.6,4500.98

The Militarization of Science and Space
Noam Chomsky, 2004 (281 views)
t=3175.8,3183.82 t=4181.1,4187.64

Video Lecture Jukebox

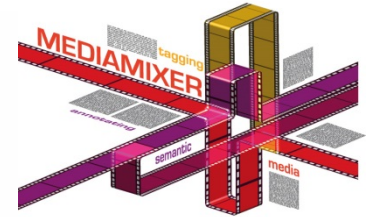
You're watching video number 1 of 8:
 The New War Against Terror



Watch previous match Watch next match

MediaMixer | Community set-up and networking for the reMIXing of online MEDIA fragments
Co-funded by the European Union, Nov 2012 - April 2014
© Jožef Stefan Institute, VideoLectures.NET, Viidea







Intelligence agency

Longer shots

Search results: Intelligence agency *(Intelligence_agency)*

 **The New War Against Terror**
Noam Chomsky, 2001 (114 views)
t=3010.6,4796.12

 **The Militarization of Science and Space**
Noam Chomsky, 2004 (281 views)
t=2482.6,4617.92

Video Lecture Jukebox

You're watching video number 2 of 2:



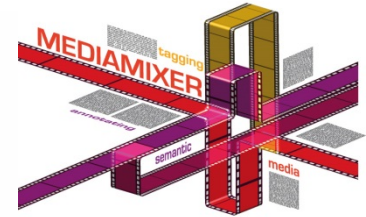
The Militarization of Science and Space



Watch previous match

Watch next match





Nikola Tesla

Longer shots

Search results: Nikola Tesla *(Nikola_Tesla)*

no results found for "Nikola_Tesla" (which is what DBpedia suggested as best match for 'Nikola Tesla')

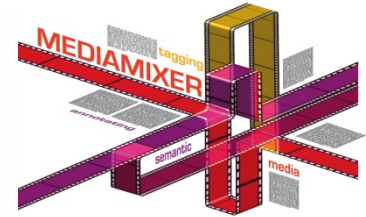
Search for related concepts instead...

MediaMixer | Community set-up and networking for the reMIXing of online MEDIA fragments

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Nikola Tesla

Longer shots

“Nikola Tesla” related concepts *(Nikola_Tesla)*

Albert Einstein (as in Naturalized citizens of the United States, American physicists)



The dark universe: dark matter and dark energy [1/4]

Edward W. Kolb, 2008 (1385 views)

4:31:50

t=176.56,181.78 t=618.6,623.62 t=794.41,798.88 t=831.22,835.65 t=835.7,841.51 t=841.51,847.88



Fusion Energy: Promises Unkept? [1/2]

Holtkamp Norbert, 2008 (114 views)

2:26:12

t=749.34,754.63



Fundamentals of Particle Detectors and Developments in Detector Technologies for future Experiments [4/6]

Werner Riegler, 2008 (153 views)

6:22:14

t=1447.62,1453.2

Bill Clinton (as in American Buddhists)



The Militarization of Science and Space

Noam Chomsky, 2004 (281 views)

1:53:31

t=5723.94,5732.56

Edward Teller (as in Naturalized citizens of the United States, American inventors)



Fusion Energy: Promises Unkept? [1/2]

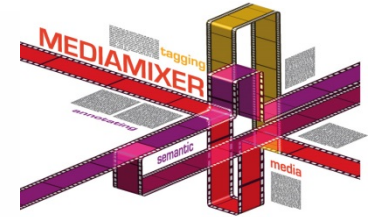
Holtkamp Norbert, 2008 (114 views)

2:26:12

t=1748.62,1751.21



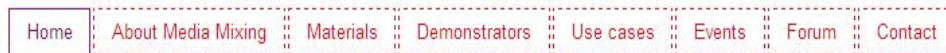
MediaMixer community portal



<http://community.mediamixer.eu>

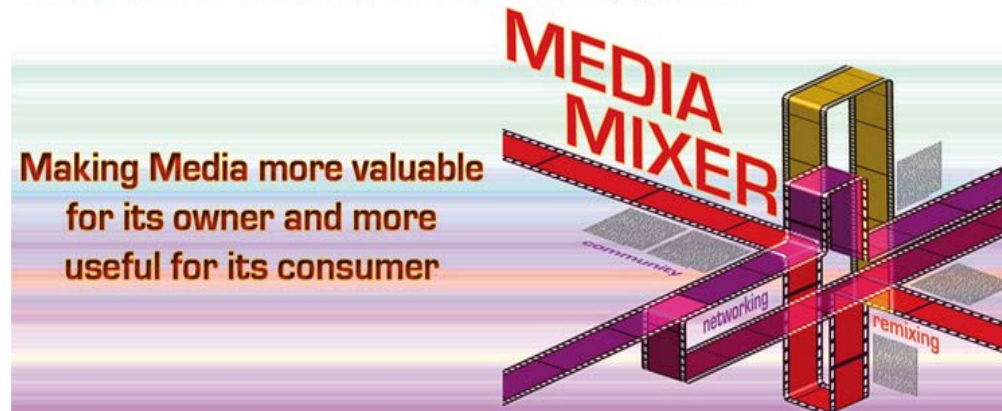
Sign up for ALL updates!

Introduction to all technologies at community.mediamixer.eu/technology



You are here: Home

Welcome to the MediaMixer community portal !



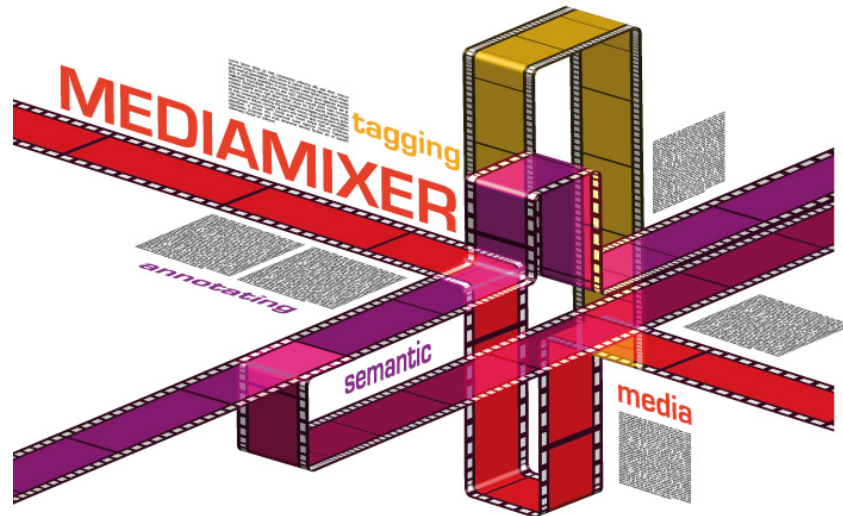
Updated with latest materials on all Media Mixer topics:

- Technology use cases
- Demonstrators
- Tutorials
- Presentations
- Software
- Specifications

Follow us on Twitter
[@project_mmixer](https://twitter.com/project_mmixer)



Thank you for your attention!



VideoLecturesMashup: gaber.cerle@videolectures.net

MediaMixer Project: lyndon.nixon@modul.ac.at

Say hello @project_mmixer

