



TOSCA^{MP}

Task-Oriented Search and Content Annotation for Media Production

Werner Bailer, Georg Thallinger (JRS)

Media Search Cluster Meeting
Brussels, Dec. 13, 2011

The TOSCA-MP project receives funding from the European Union's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 287532.



Motivation



- Media production and archiving workflows are changing rapidly
- Workflows need to be increasingly networked and distributed
- Media search in distributed large-scale repositories in the network (multilingual and heterogeneous)
- Off the shelf tools, able to adapt to users' tasks are needed

Objectives



- enable content holders to leverage scalable advanced distributed processing
- enable editorial staff in networked media production to seamlessly use content from distributed heterogeneous repositories
- make benchmarking of indexing and search methods an integrated part of the workflow

Research areas



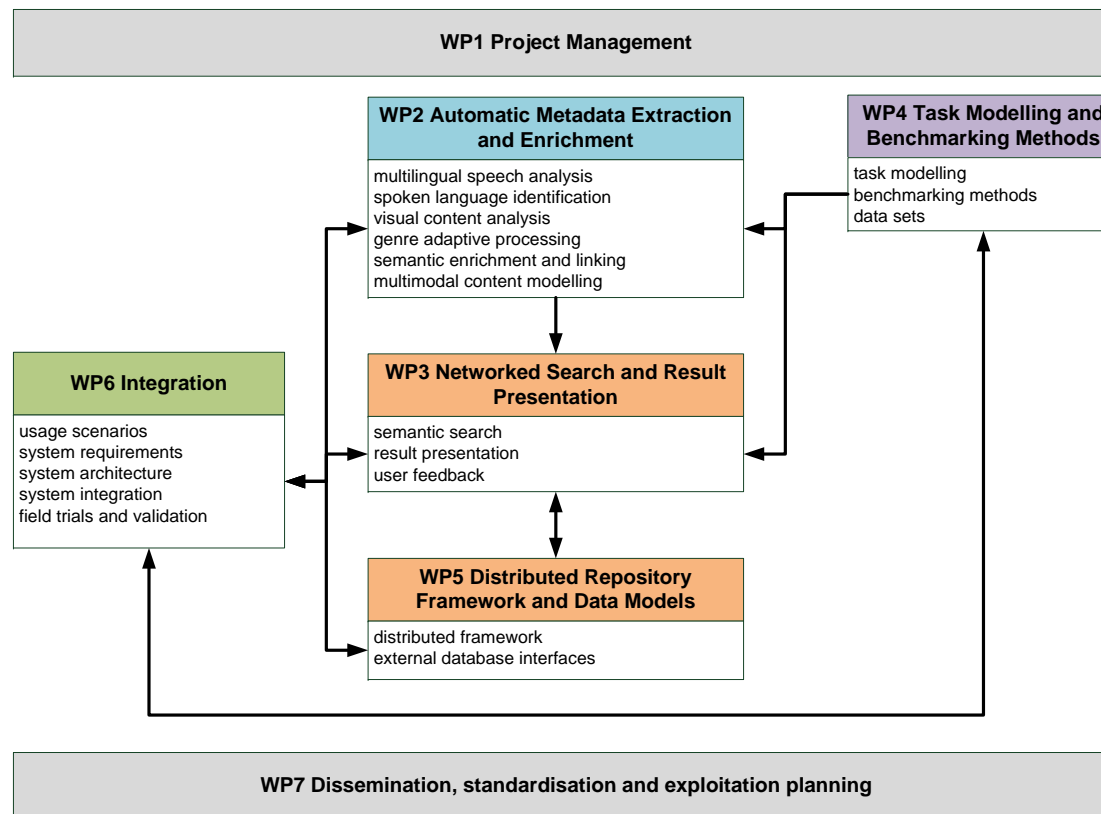
- Multilingual speech metadata extraction
- Content-adaptive visual metadata extraction and enrichment
- Aligning and linking metadata
- Task-adaptive search & retrieval and user feedback
- User interfaces for annotation and result presentation
- Task models and benchmarking
- Scalable distributed repository framework for digital media production workflows

Projects facts



TOSCA-MP

- Project start: Oct. 2011, duration: 30 months
- Funding: 3.574 MEUR



Consortium



TOSCA-MP

- four leading research institutions



- a research group of a highly reputed university



- an innovative SME



- a leading services and technology provider



- two public service broadcasters



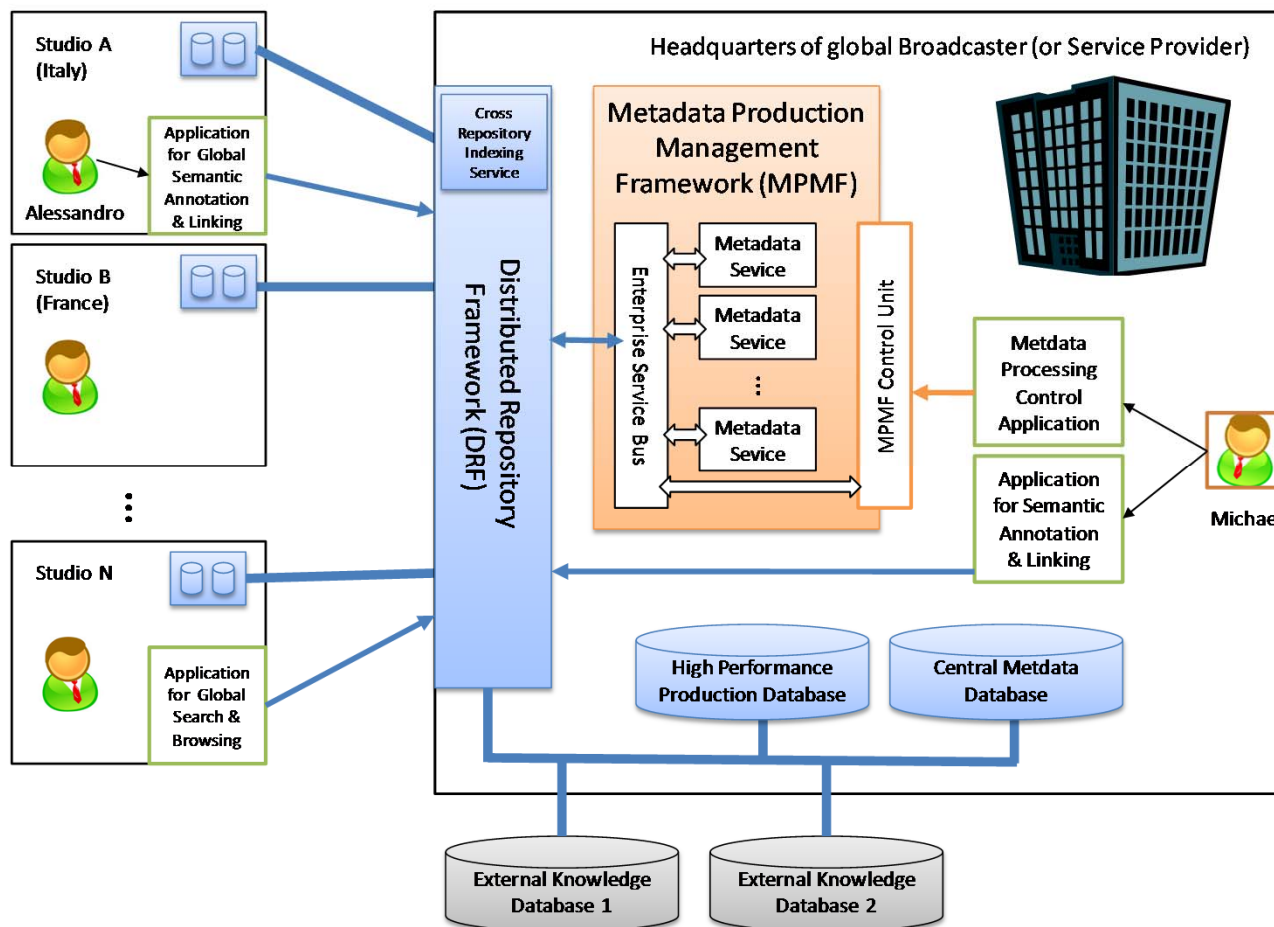
- the association of European broadcasters



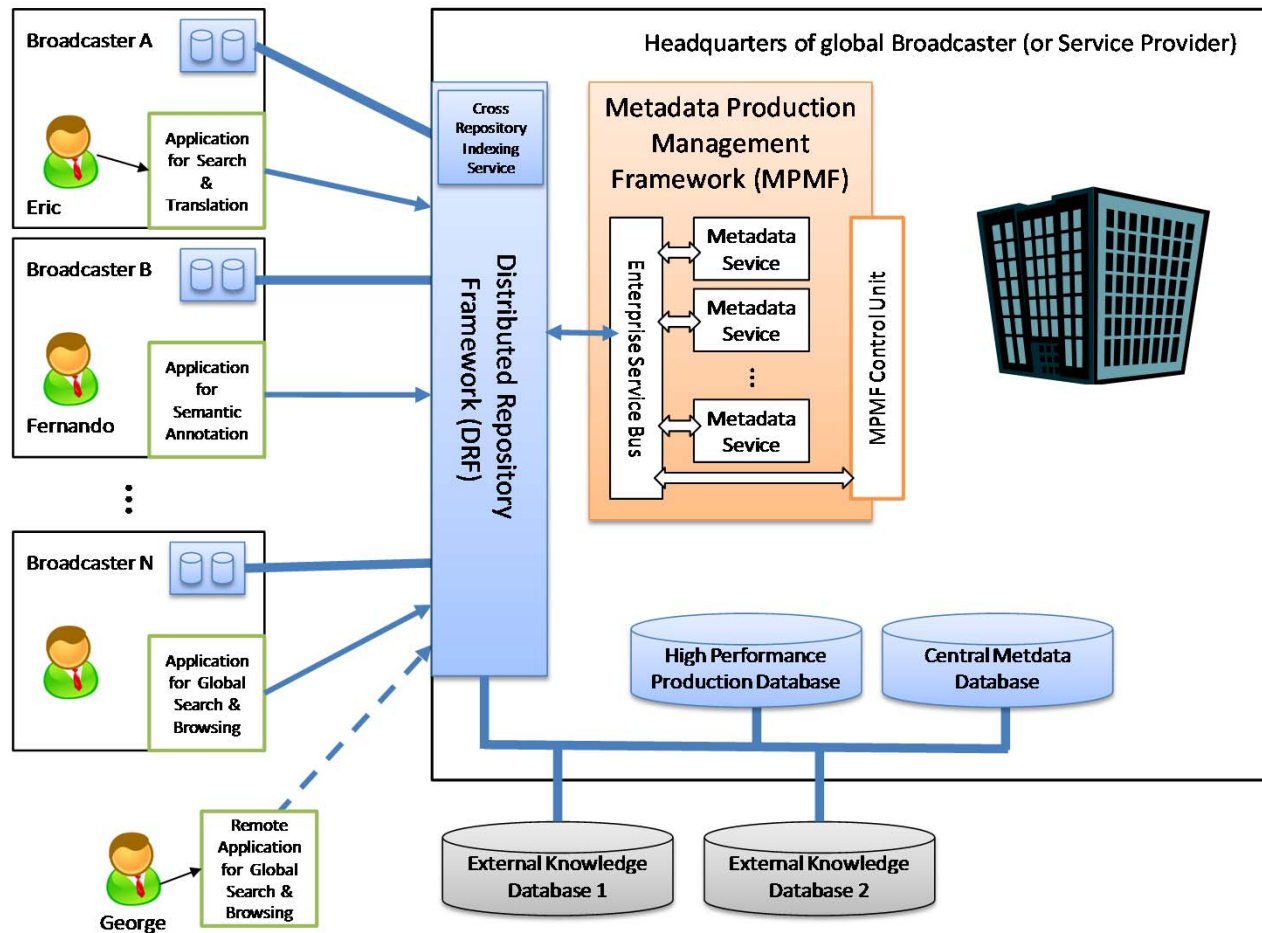
Scenario 1 - Annotation



TOSCA-MP



Scenario 2 – Search & Retrieval



Standardisation



- EBU MIM/SCAIE
 - EBU group on Automated Metadata Extraction
 - several TOSCA-MP partners are involved
- FIMS
 - Framework for Interoperable Media Services
 - EBU/AMWA task force for SOA in media production
 - http://wiki.amwa.tv/ebu/index.php/Main_Page
 - Phase 2 currently starting
 - Request for use cases & technical requirements (Jan. 15, 2012)
 - TOSCA-MP is preparing a submission on services for analysis, annotation and search

Benchmarking



- Involvement of partners in benchmarking initiatives in 2011
 - TRECVID (JRS), ImageCLEF (HHI), CLEF-IP (JRS), IWSLT (FBK, co-organiser), EVALITA (FBK)
- TRECVID 2012
 - TOSCA-MP submitted task proposal on multimodal linking/threading of news items – rejected
 - if the proposal for a revised instance search (INS) task by the FP7 AXES project is accepted, TOSCA-MP will contribute (content, evaluation guidelines, possibly annotation)
- Video Browser Showdown @ MMM 2012
 - VideOlympics for interactive known-item search
 - JRS co-organises
 - content set collected by EBU MIM/SCAIE, currently extended