

DiversiWeb2011 Workshop on Knowledge Diversity, Mar 28th, 2011, Hyderabad

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ledge

http://livingknowledge-project.

SEVENTH FRAMEWORK PROGRAMME



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LivingKnowledge Project

http://livingknowledge-project.eu

- EC FP7 FET Proposal
- CALL 6 ICT Forever Yours

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Consortium

- UNIVERSITÀ DEGLI STUDI DI TRENTO, Trento ITALY
- FUNDACIÓ BARCELONA MEDIA UNIVERSITAT POMPEU FABRA, Barcelona – SPAIN
- SORA, Vienna AUSTRIA
 - CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI, Parma ITALY
- STICHTING EUROPEAN ARCHIVE, Amsterdam NETHERLANDS
- UNIVERSITÀ DEGLI STUDI DI PAVIA, Pavia ITALY
 - UNIVERSITY OF SOUTHAMPTON, Southampton, UNITED KINDOM
 - DOCUMENTATION RESEARCH AND TRAINING CENTRE, INDIAN STATISTICAL INSTITUTE, Bangalore, INDIA
- GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET Hannover, GERMANY.
 - MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V., Muenchen – GERMANY.



Objectives

 Investigate diverse disciplines with a view to a multi-disciplinary understanding of evolution, diversity and bias, and their impact on knowledge;

• Develop a formal knowledge model which makes it possible to represent, manage and maintain over time knowledge that reflects evolution, diversity and bias.



Goals

- Creating a deep understanding of diversity
 - interdisciplinary approach combining know-how and experiences from areas such as media research, multimodal information theory, library science, natural language processing and multimedia data analysis

Goals

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- Developing methods of detecting Bias
- Exploring the temporal dimension of diversity
- Making bias, diversity and evolution tangible and digestible by a new generation of search technologies that supports opinion-aware, diversity-aware and time-aware aggregation and exploration of knowledge



Information Extraction: extraction of facts and entities from web pages and documents, opinion mining, integration of related and complementary knowledge fragments



Understanding and detecting bias and diversity: which includes understanding interdisciplinary foundation of diversity and bias expressed in text and multimedia



Knowledge Evolution: which includes analysis of evolution of classification patterns and hierarchies; opinion evolution; diversity aware knowledge representation etc



Enhanced search and retrieval technology: which includes information aggregation and summarization

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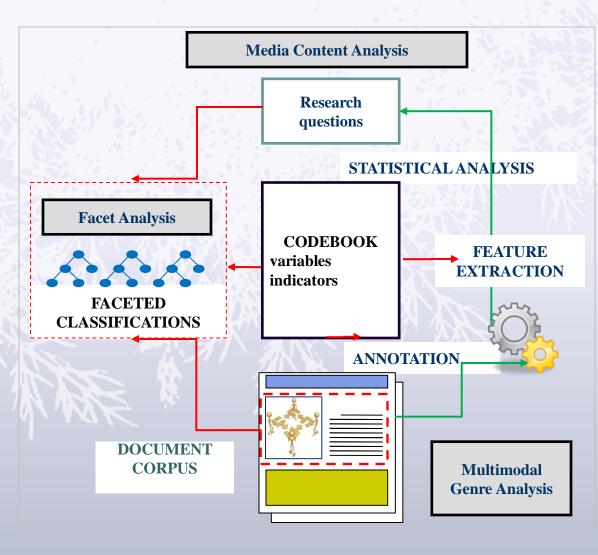


Research Areas - RAs

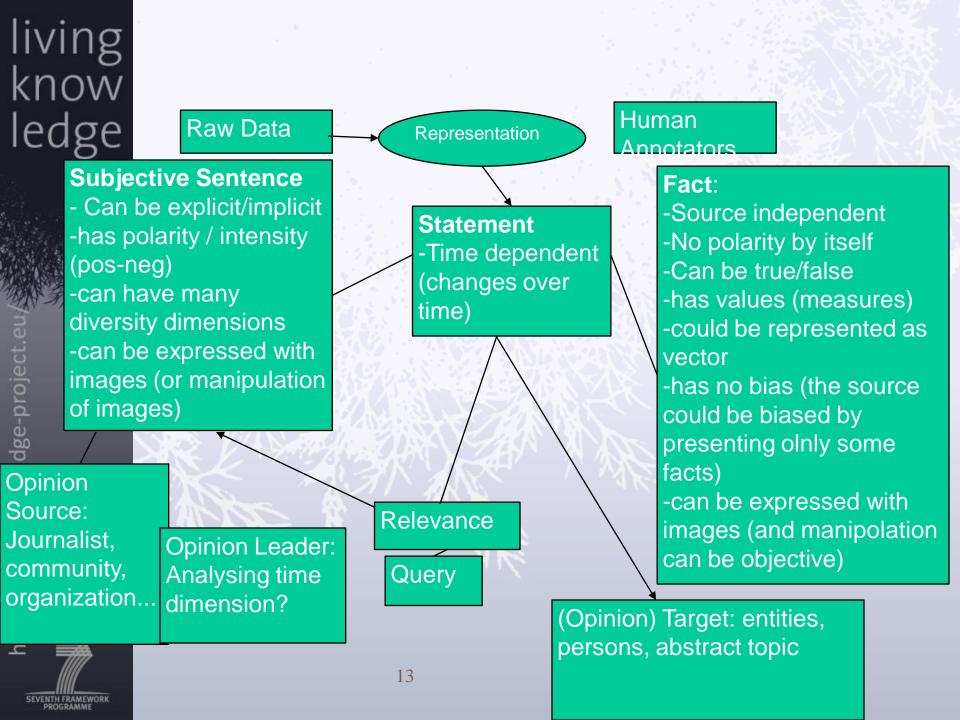
RA1: Foundations of Evolution, Diversity and Bias in knowledge **RA2: Information Extraction RA3: Knowledge Evolution RA4: Bias and Diversity RA5: Clustering and Aggregation RA6: Enhanced Search and Retrieval** Technology



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Media Content Analyzer (MCA)

LK MCA to emulate the SORA method

Multi-pronged approach

Bias and Diversity detection: L3S

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- Evolution studies and modeling: Max Plank Institute
- Multimodal Semiotic Analysis: Pavia
- Multimedia Media Analysis: CNIT, Southampton
- Facet Modeling : DRTC/ISI and Unitn
- Image Forensics and analysis: CNIT and Southampton
- Media Content analysis: SORA
- Future Predictor: Yahoo!
- Multi-domain data sets: European Archives



Future Predictor

- Searching the future: searching current references for explicit mentions of plans and estimates for future events
- Predicting the future: Inferring new implicit future events based on past occurrences, trends and plans for the future

Mining the future *(temporal evolution)* : finding the most important topics associated with a given time segment.



Thank you!