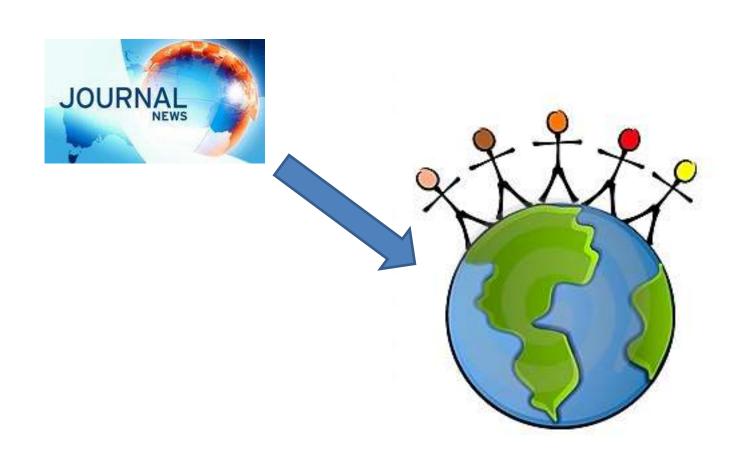


Language Technologies – A Must for Innovation in Broadcasting

Peggy van der Kreeft
Deutsche Welle/Innovation Department
Riga Summit 2015 on the Multilingual Digital Single Market
27-29 April 2015



Broadcasting Objectives

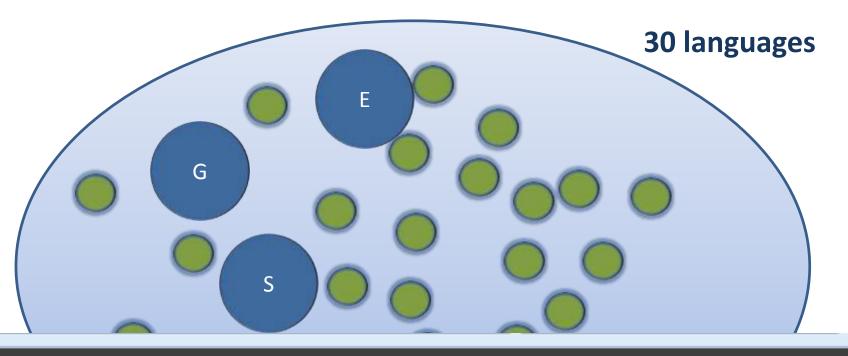








Deutsche Welle World Broadcaster



Albanian Shqip

Amharic አማርኛ

العربية Arabic

Bengali बाःना

Bosnian B/H/S

Bulgarian Български

Chinese 中文

Croatian Hrvatski

دری Dari

✓ English English

French Français

German Deutsch

Greek Ελληνικά

Hausa **Hausa**

Hindi हिन्दी

Indonesian Bahasa Indonesia

Kiswahili Kiswahili

Macedonian Македонски

بينتو Pashto

فرسی Persian

Polish Polski

Portuguese Português do Brasil

Portuguese Português para África

Romanian Română

Russian на русском

Serbian Cpncku/Srpski

Spanish Español

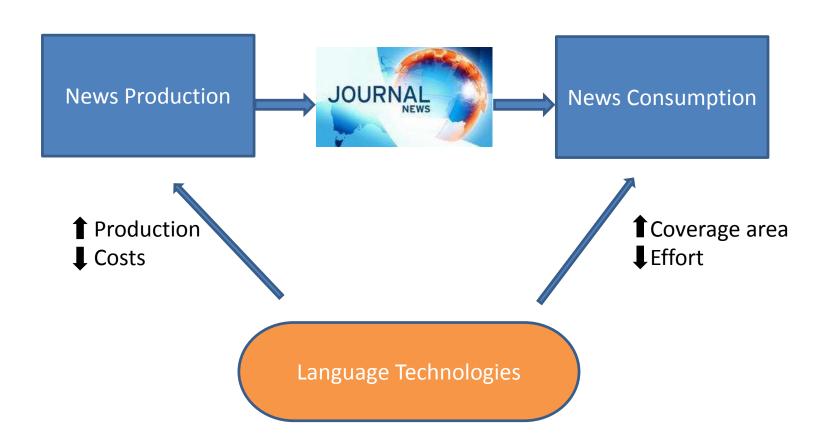
Turkish Türkçe

Ukrainian Українська

اردو Urdu

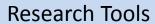


Language Technologies





Innovation



ASR
MT
Summarisation
Audio Analysis
Text Analysis
eyword Extractio

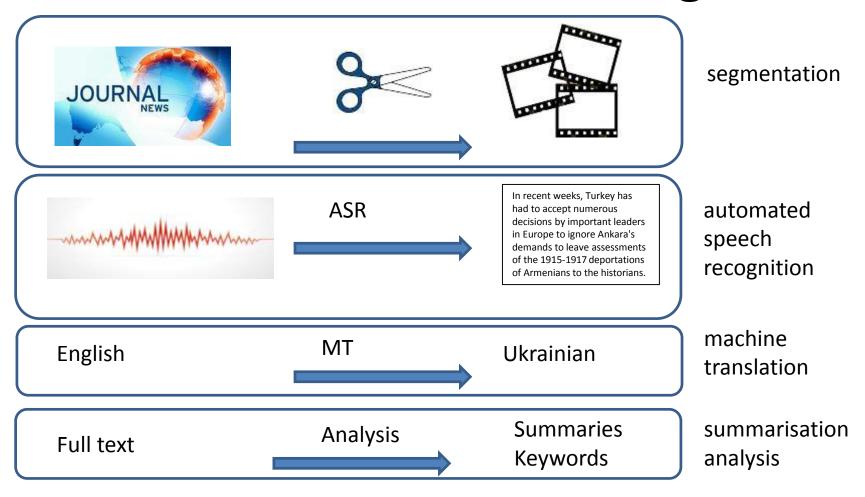


Enhancement, integration, customisation

Production: Innovation, implementation



Combination of Technologies

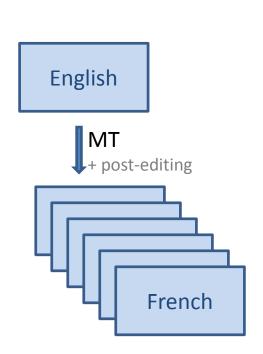




Text Processing

Automated

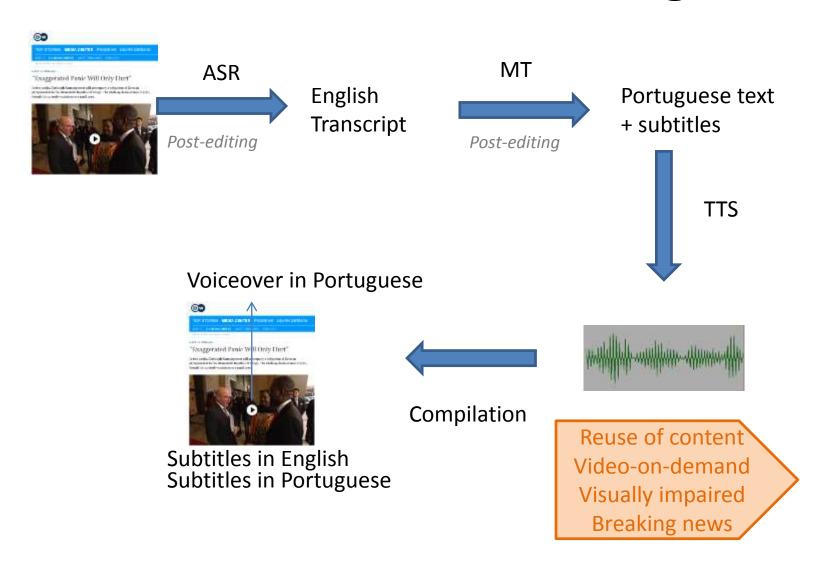
Manual English German French Spanish Ukraine



Monitoring
Reuse of content
Breaking news



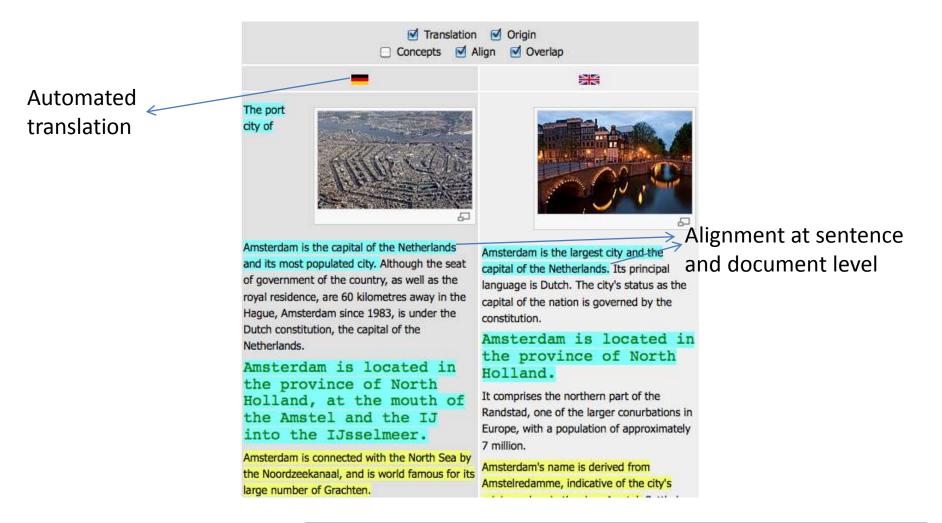
AV Content Processing





Some solutions from research projects CoSyne Project

Multilingual Content Synchronisation with Wikis



Identify overlapping and unique information across languages

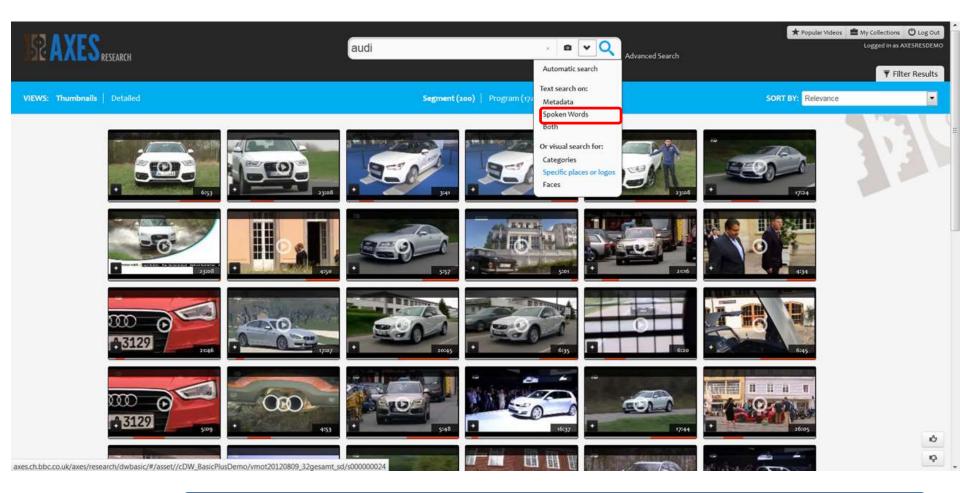






AXES Tool

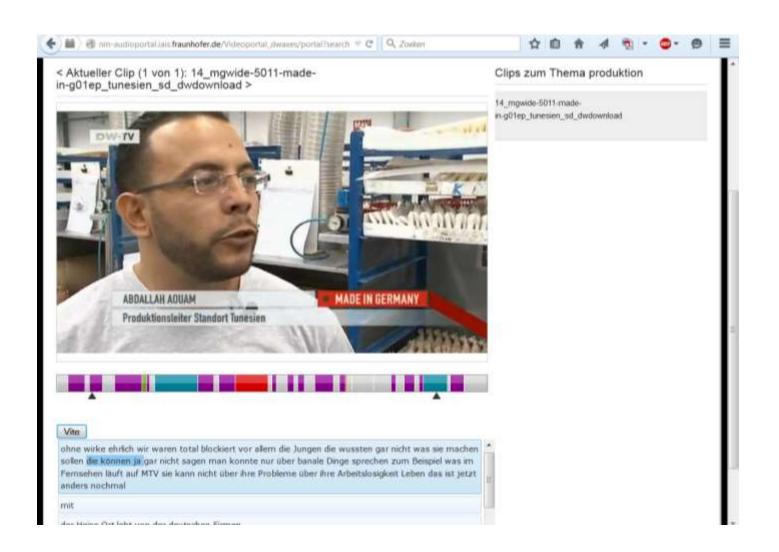
Access to Audiovisual Archives



Audio Search + Language-independent visual search using Überclassifiers



ASR Tool



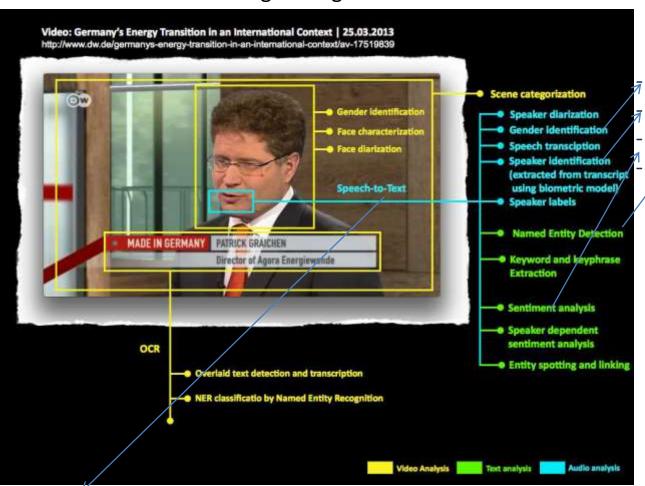






EUMSSI Tool

Event Understanding through Multimodal Social Stream Interpretation



gender identification speaker identification sentiment analysis named entity detection

STT: different language modules

Storytelling using analysis across languages



Resulting in...

Entity Extraction
Keywords
Multilingual Transcripts
Multilingual Subtitles
Summaries



Potential Applications

Broadcast content enhancement

Text, audio, video

Transcripts
Subtitles

Social media
User-generated content

Metadata enrichment

Data mining
Data-driven journalism
Multilingual media monitoring
Business intelligence











Thank you!

Questions?

