

Technology consortium awarded €1m EU grant to create Real-time Content Analysis and Processing (ReCAP) platform

London, U.K. 5th December 2016

[NMR](#), a media technology solutions provider, announced today that it is leading a consortium of European software development partners that has been awarded €1m of EU funding to build and commercialise a Real-time Content, Analysis and Processing ([ReCAP](#)) software platform. The consortium also includes [ToolsOnAir](#), [nabJet](#) and [Joanneum Research](#).

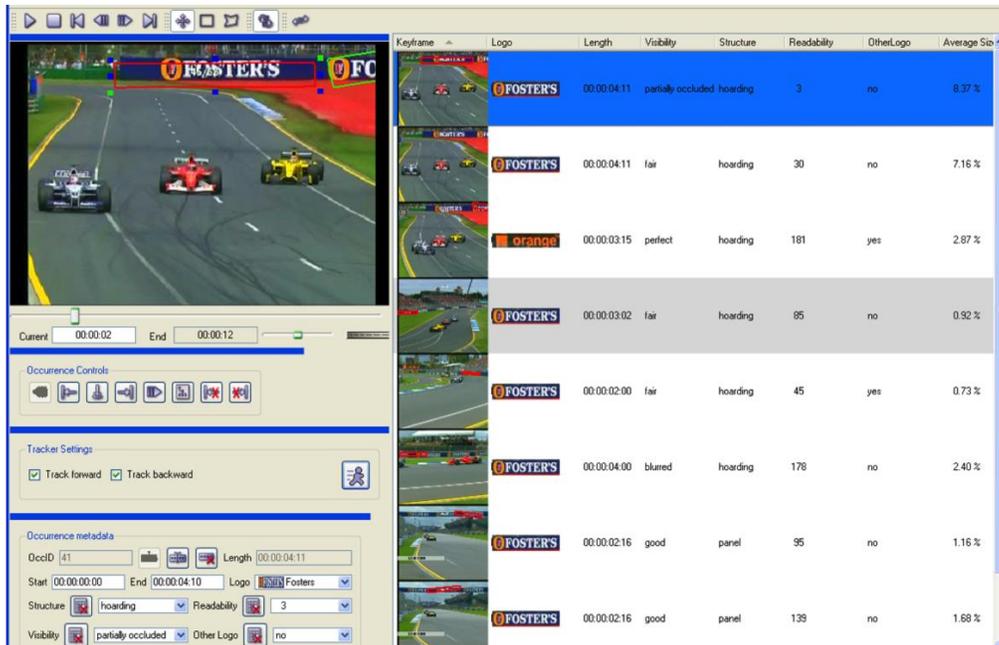
This platform will enable media companies to automatically analyse and extract time-stamped descriptive and technical metadata, in real-time, from live broadcast quality video content, as well as process their existing archive content.

The project, funded by a €1m grant from [Horizon 2020](#), the EU Research and Innovation programme, aims to integrate and commercialise existing partner technology into a scalable and open software platform, affordable for Small to Medium-sized Enterprises (SME).

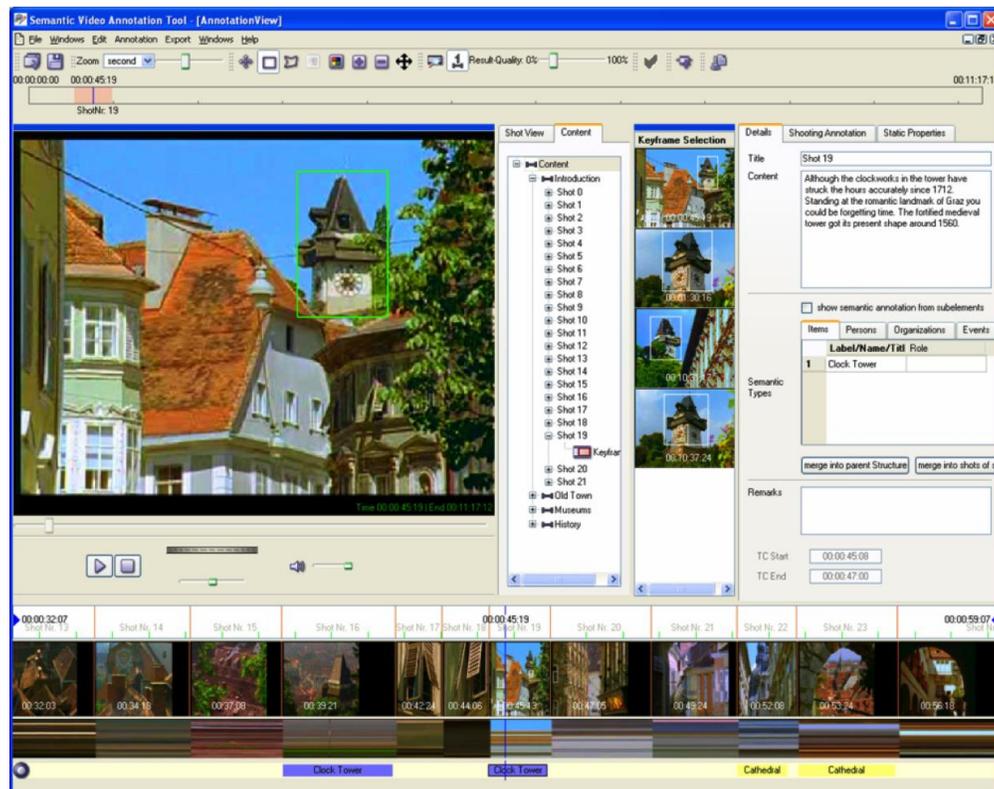
The final product will aim to deliver time-stamped, real-time descriptive analysis of video and audio content, including object, logo, face detection and content duplication. It will also aim to deliver the automatic detection of quality impairments such as lost/frozen video frames, block dropouts, visible macroblocking, estimation of sharpness and noise, with potentially automatic quality improvement, interpolation of image regions or entire frames, denoising and block artifact suppression.

Broadcast quality video with real-time metadata streams will be available for instant review, analysis and processing in commercial Media Asset Management (MAM) systems, workflow orchestration tools and transcoding software, via open and documented [APIs](#). The ReCAP product will support on-premise, data centre and cloud deployment models.

Potential use cases for [ReCAP](#) include real-time content recognition and technical monitoring of live broadcast feeds and identifying individuals, objects or locations in a large media archive. It could also be used for automatically identifying broadcast slates in content, finding and removing ad breaks, black or colour bar segments in order to reduce storage use and automatic brand (logo) detection in commercial ad breaks for compliance purposes.



Results of automatic logo detection algorithm



Results of object recognition algorithm

A stakeholder board of major broadcasters, news organisations and content owners will work closely with the project implementation team, to provide feedback and check progress of the

ReCAP project, ensuring the final product meets the industry's need for automatic media content analysis and that it satisfies real world use cases and workflow challenges.

“The ever increasing volume of video content, combined with a lack of time and human resources to view, analyse and process it, makes the timing perfect for the consortium to bring project ReCAP to market” comments Neil Anderson, CEO of NMR.

“This EU grant has also enabled NMR to employ additional full time software engineers, including Lead Developer and ReCAP Product Owner David Moss, who previously contributed substantially toward the development of the [Zonza](#) production management platform, while working at Hogarth Worldwide, part of WPP,” he added.

The other consortium partners include broadcast software vendor ToolsOnAir, with their Just:Ingest software and On:Core, their new workflow orchestration platform, which will provide live broadcast feeds and process control to the real time analysis engine and processing platform. Walter Kuntner, CEO of ToolsOnAir stated that “We are delighted to be working on another cutting edge EU technology project, with our respected partners. Project ReCAP fills a significant gap in the market and we look forward to contributing our software, technology and expertise to make the product a reality”.

As the leading research group for applied information and communication technologies in Austria, DIGITAL at Joanneum Research (JRS) is contributing real-time descriptive and technical analysis algorithms and software to the ReCAP project, with Georg Thallinger, Head of Research Group Audiovisual Media stating that, “JRS exists to research and develop cutting edge technology and our funding results directly from successfully working with commercial partners to exploit this technology for the benefit of the media industry. We're very much looking forward to seeing our software and algorithms emerge as an affordable commercial software solution, at the end of the project in June 2018”.

The nablet team has been working on codec and related technologies for almost 2 decades. “We are pleased to be able to be part of this exciting project”, stated Muzaffer Beygirci, CEO of nablet.

The ReCAP project web site will be regularly updated with blog postings, white paper publication and online video demonstrations at www.recap-project.com, updates will also be posted on [Twitter](#) (@ReCAP_Project). Presentations will be made at major trade shows including [NAB](#) and [IBC](#), technology conferences such as [SXSW](#), and other local partner events.

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For further information please contact Neil Anderson on +44 20 7993 3894 or email info@recap-project.com

About NMR

Established in 1992, New Media Research (NMR) is a leading media technology solutions provider, based near Kings Cross, Central London. A research led approach has earned them an industry-defining reputation and with 25 years experience they draw on an extensive knowledge base to deliver innovative, best-in-class and affordable technology solutions for content creators.

NMR develop and deploy bespoke and integrated solutions for Media Asset Management (MAM), intelligent tiered storage, video post-production, multi-channel ingest and playout, and content delivery systems. Successful client implementations include global advertising agency networks, national and international broadcasters, post-production departments for some of the world's most recognisable brands, and independent facilities.

www.nmr.com

About ToolsOnAir

Based in Vienna, Austria and incorporated in 2008 by a group of multimedia professionals with roots in Mac-based graphics, broadcast and post production, ToolsOnAir Broadcast Engineering develops powerful and intuitive professional broadcast applications utilising Mac OS X, Linux and low-cost, off-the-shelf hardware components.

The ToolsOnAir Broadcast Suite is designed with live broadcast production in mind, integrating video, audio and graphics, along with automation, asset management and multiple format capabilities to accommodate the daily needs of a TV station while maintaining a cost effective approach. These streamlined, fast-paced environments demand powerful and sophisticated technology that can keep pace with a multitude of independent tasks and interdependent workflows.

www.toolsonair.com

About Joanneum Research

Based in Graz, Austria, Joanneum Research is a non-profit organisation concentrating on applied research with a highly qualified staff of more than 400 people. Services include specifically geared research tasks for small and medium-sized companies, complex interdisciplinary national and international assignments as well as tailored techno-economic consulting. JRS participates in setting up and organizing national competence centres as well as in numerous large international projects. DIGITAL – the Institute for Information and Communication Technologies – specialises in web and internet technologies, image, video and acoustic signal processing together with remote sensing, communication and navigation technologies. Results of our research are implemented in hardware and software resulting in application-oriented solutions advancing the scientific state of the art.

The institute has participated in more than 100 EC and ESA funded projects since the Third Framework Programme. For several years JRS has undertaken R&D into methods for automatic analysis of video based on their large knowledge base from media analysis including automatic film restoration and content-based indexing, summarisation and retrieval. JRS has been involved in a large number of EU and national projects dealing with audiovisual content analysis, digital preservation and media production. The Audiovisual Media Group at JRS has a strong background in developing visual content analysis technologies and deploying them as applications and services to be integrated with other manufacturer's systems.

www.joanneum.at

About nablet

Located in Aachen, Germany, nablet GmbH was founded in the autumn of 2011 and is a premiere provider of streaming, codec, muxing, and transcoding solutions for the broadcast and entertainment markets. This is coupled with a strong R&D focus on content analysis, image processing and automated metadata creation. nablet's products seamlessly integrate with other partners and vendors providing reliable turnkey broadcast solutions. nablet's customers and partners include technology companies like Sony, Intel, Avid, IBM, Vizrt and many more.

www.nablet.com