				About Mac	ero*World
My Macro*World	Portfolio	Markets Submit Query	Research Ticker/Name Search	Economic	Help Back To Calibre Submit Query
Markets Overview Market Diary AMEX Dow 30	Arts and Ent	1 0		0.0	New Media and Digital celebrates its first year

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This time it's not the legendary Maria Callas being honoured, but an Integrated Project in research and development that's been named after her. CALLAS - Conveying Affectiveness in Leading-edge Living Adaptive Systems, a project co-financed by the European Commission under the Sixth Framework Programme, proposes the development of innovative technology -multi modal affective interfaces- within New Media and Digital Arts and Entertainment.

Upgrades/Downgrades After twelve months of life, CALLAS has reached its first important results which are focused on the integration of new emotional models centred on a wider variety of sensations and emotions. These models aim to enhance the experience of the final user, whether situated in public places or the theatre to the transmission of interactive TV. These models and components for example will enhance the experience by capturing the emotional state of the spectator and final user across a wide recognition of their facial characteristics, expressions or paralinguistic expressions.

> So, why does a project like CALLAS exist? Because in today's digital society, natural communication between people, based on gestures, movements, sounds and verbal expressions is imposed with a much greater emphasis on a new form of interaction, that being between people and machines. It is emotion, in all expressions, that has a fundamental role in the conditioning of natural communication between two people that must be emulated when service based interfaces are developed to enhance the interaction between people and machines. For this reason, the affective interfaces developed by CALLAS cover a fundamental role in the new media experiences like: Digital Theatre, Interactive TV, Augmented Reality Art and Interactive Public Performances.

Emotional multimodal interfaces aim at achieving the highest level of naturalness in human-computer interaction. One of the main challenges for CALLAS is to implement the concept of affective emotional input for interactive media rather than within a traditional interface paradigm. Affective and emotional interfaces are generally concerned with the real-time identification of user emotions to determine system response. They rely most often on emotions such as joy, fear or anger. However, interaction with new media such as interactive narratives, digital theatre or digital arts involves different ranges of emotions on the user's side, some of which correspond to responses to aesthetic properties of the media, or characterise the user experience itself in terms of enjoyment and entertainment. To identify these, more complex articulations of modalities are required. Such key aspects are currently being investigated within the CALLAS project in the specific area of Art and Entertainment applications.

CALLAS wants to demonstrate the real use of the multimodal affective interfaces across the implementation of concrete applications. These can improve a performance in the digital Theatre and also the recognition of the emotional states of actors on -stage, creating a virtual scenography. This is one of the application schemes that its launching from the creations in Digital Theatre of Studio Azzurro Produzioni, a cutting edge lab in New Media Arts, who are one of the partners of the project. At the same time, the affective multimodal interfaces can also contribute to the future development of art forms like interactive TV or other types of digital art based on the emotional-cognitive experience of the audience.

Dow 30 **NASDAQ**

NYSE

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Industries

Corporate Actions

IPO Calendar

Money Flow

Splits

News

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General

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Local

News by Topic

Aerospace & Defense

Africa

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Americas

Asia

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Europe

Financial Services

Government Healthcare

Manufacturing

20/08/2008 11:29 1 of 3

Middle East
Natural Resources
Oceania
Oil & Gas
Regulatory
Retail
Sports
Science &
Engineering
Technology

Top Topics

Some of the principal partners of the 19 organisations that make up the CALLAS consortium are the media giant BBC, a number of European Universities, and a variety of small and medium enterprises, including Metaware S.p.A of Pisa, Italy. They are currently developing the software framework and they are also the director of communications for the project. The project co-ordinator is Engineering Ingegneria Informatica, Research and Development Department.

www.callas-newmedia.eu info@callas-newmedia.eu

The CALLAS consortium is as follows:

- 1. Engineering Ingegneria Informatica S.p.A. Italy (Co-ordinator)
- 2. VTT Technical Research Centre of Finland
- 3. British Broadcasting Corporation United Kingdom
- 4. Metaware S.p.A. Italy
- 5. Studio Azzurro Produzioni S.r.l. Italy
- 6. XIM Ltd. United Kingdom
- 7. Digital Video S.p.A. Italy
- 8. Humanware S.r.l. Italy
- 9. NEXTURE Consulting S.r.l. Italy
- 10. University of Augsburg Germany
- 11. Institute of Communication and Computer Systems / National Technical University of Athens Greece
- 12. Faculty of Engineering, Mons (FPMs) Belgium
- 13. University of Teesside United Kingdom
- 14. Helsinki Institute for Information Technology, HUT and UH Finland
- 15. University of Paris 8 France
- 16. Scuola Normale Superiore Italy
- 17. University of Reading United Kingdom
- 18. Fondazione Teatro Massimo Italy
- 19. Human Interface Technology Laboratory New Zealand

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2 of 3 20/08/2008 11:29

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3 of 3 20/08/2008 11:29

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