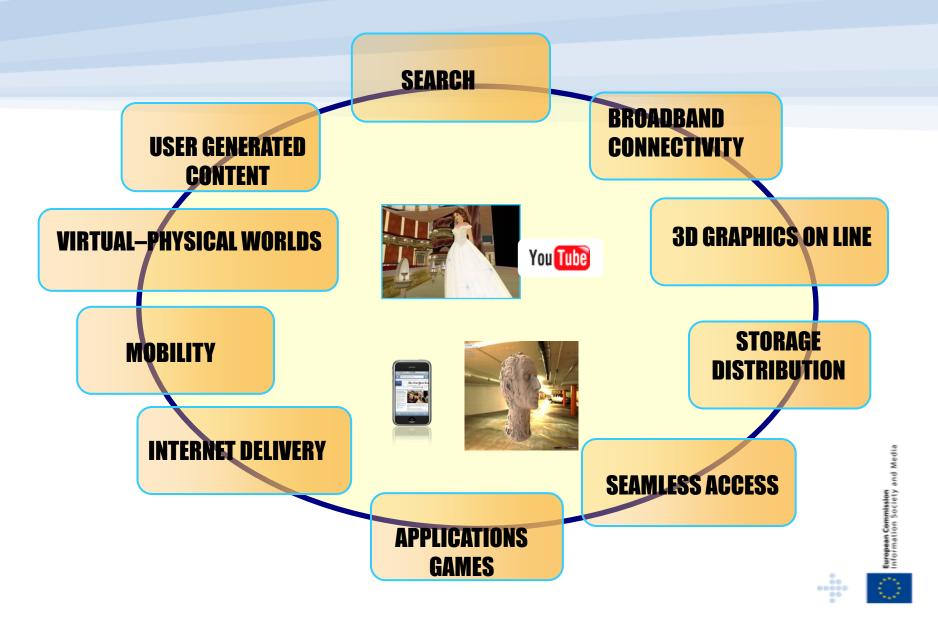
Networks and Media: Trends and Prospects in EU Research

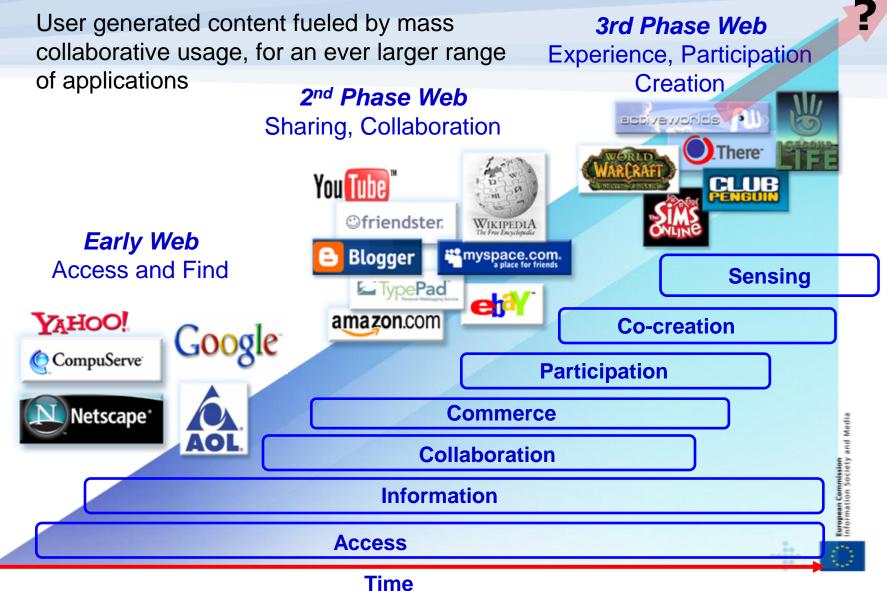
Luis Rodríguez-Roselló Head of Unit "Networked Media Systems" DG-INFSO

Session on "Media & Content issues in the new Convergent Environment" Global Forum Bucharest, October 2008

The multiple dimensions of Media



The Networked Media trends (1/3): Massive Collaborative Usage



The Networked Media trends (2/3): 3D & Global Media Processing



The Networked Media trends (3/3): Towards User Generated Content ... and User Generated Services

Present

Emergent and Future

Limited providers of content/services

Centralized creation

Tied to a network/device/form factors

Separate Media/Services

Not aware of context

One-size-fits-all content aggregation

Authenticated distribution channel

Basic user profile controlled by Provider

Mass Media and Services

Users created content/services

Collaborative creation

Follow users on any device/screen

Elusive convergence of media and Services

'Awareness enabled'

Personalized content filters

Authenticated users

Rich user profile controlled by User

Complex, dynamic, volatile, collaborative media and self-Services

"Networked Media & 3D Internet" The Work Programme 2009-10

Context:

• Creation of multimedia content is evolving at a fast pace akin to new ways of media delivery, including <u>3D Media</u> and <u>Ultra HDTV</u>. Both are relying on the <u>Internet as a key infrastructure</u>.

• The Internet has revolutionised access to multimedia content and ever increasing data traffic creates new demands and places constraints to network platforms.

• <u>Search and retrieval</u> are essential tools in the new media landscape

• **Dual role of users as producers/consumers** and the **combination of virtual and/or augmented reality** has the potential to generate innovative business models and new economic activities.

R&D focus:

"Networked Media and 3D Internet" as one of the pillars of the Future Internet. Significant research results are expected in the areas:

- a) Content-aware Networks and Network-aware Applications
- b) 3D Media Internet
- c) Networked Search and Retrieval
- d) Immersive Media Experiences beyond HDTV and Electronic Cinema

The Work Programme 2009-2010 upcoming R&D

Content-aware Networks and Network-aware Applications

□ Content-centric network architecture; P2P architecture for User Generated Content/social networks; Adaptive, personalised delivery (content and context-aware); Enhanced QoE for Users as producers, consumers or managers of content.

• 3D Media Internet and Immersive Media Experiences

□ Realistic 3D communication, real time delivery and rendering (inc. automatic capture of events in 3D), augmented worlds, immersive TV, multi-view.



Multimedia Search and Retrieval

□ Large scale distributed MM content, interaction, dynamic adaptation to context and application, personalised search (inc. social networks), automatic annotation and indexing





Impact

Networked Media is at the core of key business sectors for Europe (Mobile technologies and applications, Broadcasting, Content, Entertainment -Cinema, Games-...) which are also crucial for universal access to information and knowledge and for our future culture.

Leveraging the Future Internet with a much higher number of compelling content and services <u>and create wider market</u> <u>opportunities</u> (including for content-related SMEs) from innovative business and societal applications.

> We need to build up a partnership among the excellent EU industry (Content, Broadcasting, ICT and CE) and aggregate research capabilities in order to meet the new global demand for personalised content and services