



1st Japan-EU Symposium on New Generation Network and the Future of Internet Theme: Broadband Application

Dr Kazumasa Enami

Executive Director of Universal Media Research Center, NICT

Luis Rodríguez-Roselló

Head of Unit "Networked Media Systems" DG-INFOS, European Commission

David Wood (European Broadcasting Union) *"Broadcasting survival in the Internet environment"*

Yasuaki Kanatsugu, (Senior Associate Director, NHK Science and Technical Research Laboratories - Broadcasting Systems) *"Broadcasting conveying a sense of reality and new connectivity to viewers"*

James Robert, Orange, Fellow Researcher, *"Impact of Broadband applications on the operator network"*

Dr Tatsuya Fujii, (Media Processing Research Group leader, NTT Network Innovation Laboratories) *"A challenge to realize rich content production and distribution network -from the viewpoint of 4k digital cinema and live video entertainment applications"*

Brussels, 10th of June



R&D on Networked Media: Some proposed topics for collaboration with JAPAN

- **Content-aware Networks and Network-aware Applications**
P2P, real time/delayed, linear/ non-linear video services, multicasting, wireless...
- **3D Media Internet:**
Collaborative 3D environments and 3D Content
- **Networked Media Search and Retrieval**
Scope of collaboration with the Japanese "Grand Voyage"
- **Immersive media experiences beyond HDTV and Electronic Cinema**
SuperHiVision, 3DTV... (Ultra Realistic Communication Forum, Standardisation, joint demonstrators)



Requirements for New Generation Network

- **Ultra-high Speed:** to distribute UHDTV and 3DTV video signals with the data rate of Tbps
- **Broader band width:** to up-load lots of video streams from home, office and city
- **Low latency:** for smooth interaction, less than several tens of milliseconds
- **Common Standards, Plug and Play:** to adapt various kinds of video formats (SuperHiVision, Digital Cinema...)
- **High stability:** to be used as a basic distribution infrastructure
- **High reliability and security:** to protect from illegal use
- **Quick response:** for smooth channel zapping