



## Fibre - Radio Convergence

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EPIC

ECOC 2008

22 September 2008

## *EPIC: Mission*

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***EPIC: owned and operated by its industry members***

**Promote Sustainable Growth for the  
European Photonics Industry**

# Implementation

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- Working to increase the revenues of our members
  - Improved access to R&D funds
  - Reduced production costs
    - Creating new manufacturing infrastructure
    - Facilitating partnering
  - Marketing
    - Timely intelligence
    - Developing your customer base

# We live in exciting times

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- Bell labs gives up basic research on semiconductors
- EPIC proposes and launches Photonics21, leading to the first photonics unit in the European Commission
- MONA publishes the first roadmap on nanophotonics ([www.ist-mona.org](http://www.ist-mona.org))
- EPIC implements the ACCORD plan, giving photonics components to selected universities
- The first European Flat Panel Display plant set to open in Italy
- Europeans enter the era of 2-way peer-to-peer video communication, enabled by fiber-radio convergence

Significant Change is Possible

# Symposium Overview

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- Digital video broadcasting promises to bring a wealth of new services on to the communication network.
- The Apple i-Phone is just the beginning.
- We predict an explosion of traffic both downstream and upstream to carry video messages, particularly to nomadic devices.
- Radio and Fiber will have to work together in a coordinated way to deliver content smoothly and symmetrically.
- Network architectures will involve both optical and radio components.
- A key question is how to structure the network in an optimal way to profit from the advantages of each transport medium.

# Three Major Themes

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- There are 3 major themes that this Symposium will integrate:
  1. The emerging network: why video is a driver for evolution toward FTTH
  2. Communicating video signals in a Fiber Wireless environment: coding, compression, costs
  3. Fiber and Wireless working together for fixed and nomadic terminals

# First session: 14h30 to 16h10

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- **14h30 - 14h55: Joeri Van Bogaert**, President FTTH Council, Belgium  
*FTTH installations in Europe and the convergence of radio-based transmission and access*
- **14h55 - 15h20: Anna Pizzinat**, France Télécom R&D Réseaux d'Accès, France  
*Advantages of integrating fixed and wireless services over a common infrastructure*
- **15h20 - 15h45: Ralf Schaefer**, Heinrich-Hertz-Institut, Germany  
*Developments in video broadcasting and for two-way peer-to-peer video communication*
- **15h45 - 16h10: Ingrid van de Voorde**, Alcatel-Lucent Research, Belgium  
*Innovations in Video Services as driver for Fibre Access*

## Second session: 16h30 to 18h30

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- **16h30 – 16h55: Richard Penty**, University of Cambridge, UK  
*A vision of radio over fibre*
- **16h55 - 17h20: Raf Meersman**, COMSOF, Belgium  
*Fiber closing in on the customer's premises: Making the right design decisions*
- **17h20 - 17h45: Miguel A. Piqueras**, DAS Photonics, Spain  
*Fiber over Radio Transmission for Networks in Spatial Orbit*
- **17h45 - 18h30: Panel Discussion**

# **EPIC:** How to contact us

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