



**OASE:  
Optical Access Seamless Evolution**



**OASE participates in a research project contributing to the development of the “Network of the Future” in Europe**

OASE (“Optical Access Seamless Evolution”, Contract Number: INFSO-ICT-249025), which started January 1st 2010 with an EC contribution of 4,980,257.00 euros for 36 months, will investigate the development of next generation optical access networks.

**The project consortium** is a good balance between network operators, industrial and research involvement, with 3 network operators – in particular 2 of them from ambitious Eastern European countries – 5 research partners and 4 industry partners, including two large industry manufacturers and one SME, from 6 European countries:

- ✚ Deutsche Telekom AG Laboratories (Germany) *Technical Project Leader*
- ✚ JCP-Consult (France), *Project Coordinator*
- ✚ Interdisciplinary institute for BroadBand Technology vzw (Belgium)
- ✚ Technische Universität München (Germany)
- ✚ Kungliga Tekniska Högskolan (Sweden)
- ✚ ADVA AG Optical Networking (Germany)
- ✚ Ericsson AB (Sweden)
- ✚ Ericsson Telecomunicazioni S.p.A, (Italy)
- ✚ Acreo AB (Sweden)
- ✚ Magyar Telekom (Hungary)
- ✚ Slovak Telekom (Slovakia)
- ✚ University of Essex (United Kingdom)

OASE will examine Fiber to the Home/Building (FTTH/B) architectures and system concepts considering multidisciplinary aspects like business models, policy, and regulations to provide end-to-end technological solutions for Next-Generation Optical Access (NG-OA).

**Key objectives of OASE are:**

- Study of current and future requirements for NG-OA networks from economic, business, operational and regulatory Europe-centric perspectives.
- Identification of possible network architectures, energy-efficiency metrics and models by which their suitability may be analyzed, as well as the most appropriate migration strategies
- Enumeration of the network technologies that may be employed, and identify cost drivers and technical factors
- Examine the interactions between businesses in an “open network” marketplace by studying how increased convergence may offer new value chains and business opportunities.
- Validate the findings of the comparative merits of the identified network architectures and technologies in a controlled environment via experimental testing.

**Contacts:**

**Deutsche Telekom AG Laboratories** will bring strong competences into the project to reach the OASE objectives. These consolidated competences to build on, include the following areas of expertise: research and design of large scale broadband access networks, techno-economic assessment of different architectures and related technologies, deep understanding of networks, technologies and operational processes as well as network optimization, convergence and migration strategies. DT has a strong background in operation of large scalable carrier networks (Fixed/Broadband and Mobile networks).

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**JCP-Consult SAS** is a French consulting company, specialized in the set-up and coordination of European collaborative projects, dissemination, technical training and R&D on network compression techniques. In OASE, JCP-Consult will have a leading role in dissemination activities, contribute to the organization of the several project-related events and will perform the project coordination.

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