

## **CASE STUDY – OPOLE, POLAND**

### **1. Project title**

Construction of an Optical and Teleinformatic Network of Opole City.

### **2. Background Information (project location, launch date, start date of the operational phase, project field).**

The project is located in Opole City  
Launch date of the Project is the first quarter of 2005 year,  
Start date of the operational phase is the end of 2006 year.

### **3. Entity responsible for implementation**

Opole City Hall  
Rynek – Ratusz  
45-015 Opole  
tel.: +48 77 54 11 435  
fax.: +48 77 54 11 417  
email: [europa@um.opole.pl](mailto:europa@um.opole.pl)

### **4. Description of content and services**

The main aim of a project named a “Construction of an Optical and Teleinformatic Network in Opole City” is to increase an accessibility to a broad-band Internet network.

The project will be realized together with the University of Opole and Technical University of Opole where Community of Opole acts as a Project Leader while both of the universities as a Partners. Project will be submitted to Integrated Operational Regional Development Program Priority I Action 5 Infrastructure of Informatics Society in order to obtain 75% refund of the OSTO’s construction cost.

Within the confines of the project the OSTO network will be built. A total length will have 23,45 km (16,45 km in the part which concern Community of Opole). The net knots and access infrastructure will be located in the specified objects belonging to the partners of the project.

Until the end of the year 2006 in the range of OSTO shall be:

- Entities of Opole City Hall, Opole University and Technical University of Opole and organization units subordinating to the above mentioned,
- Public entities, educational, cultural and research institutions,

- Other entities interested in connection to the broad-band network

An accomplishment of the investment should affect an increase of the city of Opole investment attraction, revive an economical contacts, have a favorable effect for the city of Opole development increasing additionally a standard of life of Opole residents (through an easier access to information and other Internet related services.

Currently The City of Opole does not have any alternative network infrastructure which would be an effective ground to put into practice an e-city services, monitoring or VoIP service. Fast and modern telecommunications infrastructure will secure an access to the Internet and thus the communication possibilities for the residents, the possibility of e-learning for students. It will also enable handicapped to undertake jobs from their homes, rationalize a local administration's working mechanisms. Besides it should also coordinate better different public services and their response to the potential threats. Last but not least such state-of-the art network will assure a job in highly qualified positions for all of Opole universities' graduates – which definitely would be a crucial element of counteracting an unemployment.

## **5. Technical solutions**

Description of technical solutions used in this project

Devices used in the project:

- fiber optic network
- switched ethernet
- virtual LAN (Local Area Network)
- two devices on the third layer of the OSI model
- other devices will work in the second layer of the OSI model
- all devices have to work accordig to IEEE 802.1 Q standard
- transfer 100 – 1000 MBit for individual clients
- transfer between network nods 1 – 10 GBit

## **6. For more information (URL of a website)**

The website is not created

## **7. Complete coordinates of the implementing entity (name, postal address, phone, fax and e-mail of the drafter):**

**Danuta Jazłowiecka**  
**Head of European Affairs and Planning Development Department**  
**Opole City Hall**

**45 – 015 Opole**  
**tel.: +48 77 54 11 435**  
**fax: +48 77 54 11 417**  
**email: [danuta.jazlowiecka@um.opole.pl](mailto:danuta.jazlowiecka@um.opole.pl)**

**Dariusz Dauksz**  
**Manager of Informatics Department**  
**Opole City Hall**  
**45 – 015 Opole**  
**tel.: +48 77 45 11 903**  
**fax: +48 77 54 11 323**  
**email: [dariusz.dauksz@um.opole.pl](mailto:dariusz.dauksz@um.opole.pl)**