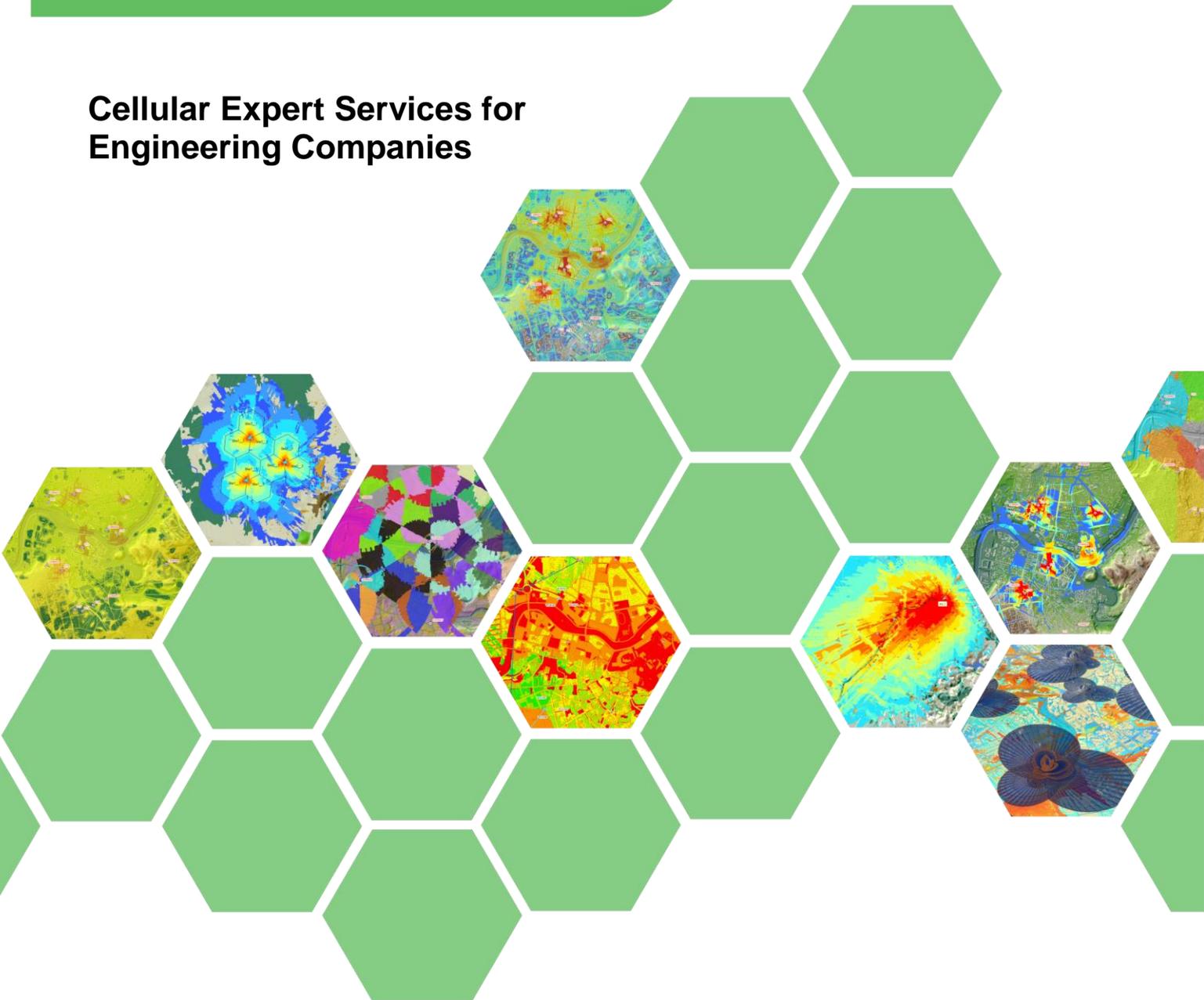


CASE STUDY

Cellular Expert Services for Engineering Companies



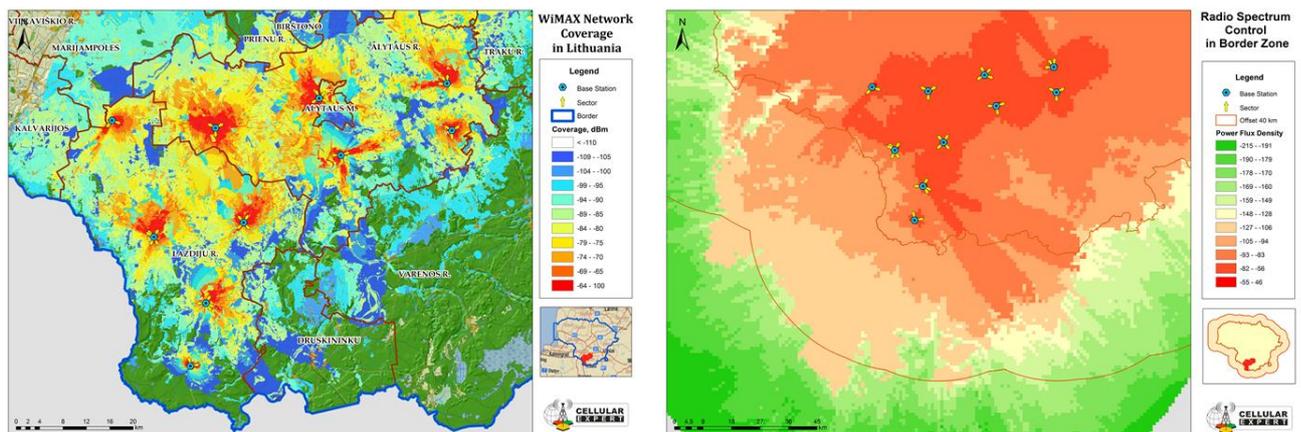
Cellular Expert helps Neltė building its fixed WiMAX network

About the company

Lithuanian network operator Neltė was established in 1995 as radio network operator for POCSAG Standard. Currently Neltė provides wireless broadband access network services. The network infrastructure is based on the WiMAX Standard with technology developed by Siemens.

Project scope:

Neltė faced a necessity to design and estimate the cost of building fixed WiMAX network in several Lithuanian cities. The main purpose of the project was to design fixed WiMAX network in Alytus, Lazdijai towns and surrounding areas as well as to estimate costs of building the network. Neltė has outsourced network planning tasks to Cellular Expert company specialists, which were responsible for generating network deployment scenarios. Outsourcing the task, Neltė has benefited in several ways: saved time, money and now has a reliable WiMAX network.



The following tasks have been accomplished during the project time:

- ✓ Support Customer points import to database
- ✓ Antenna diagram digitalizing and import
- ✓ Network coverage calculation by using calibrated prediction models.



- ✓ **Network planning was accomplished considering power flux density norms** at border zone according to the Communications Regulatory Authority requirements.

As a result, power flux density map at border zone has been created as well as network coverage maps were produced which were calculated for receivers at 4 and 12 meters height.

Business value:

Outsourcing of network planning services to Cellular Expert company has brought a great value to Neltė. Firstly, Neltė does not need to have, acquire or constantly update geographical data, which is very costly. In this case Neltė also saves additional costs, because it doesn't need to employ GIS person in their company. Secondly, Neltė does not need to buy wireless network planning software and to have certain knowledge and experience in this field. Thus Neltė saves time and money as well as can be sure it will have reliable network.

Customer Testimonial

"Without outsourcing the work to Cellular Expert company, it would never have been possible to do this job on specifications, within budget and time..." (Darijus Klusas, "Neltė")

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