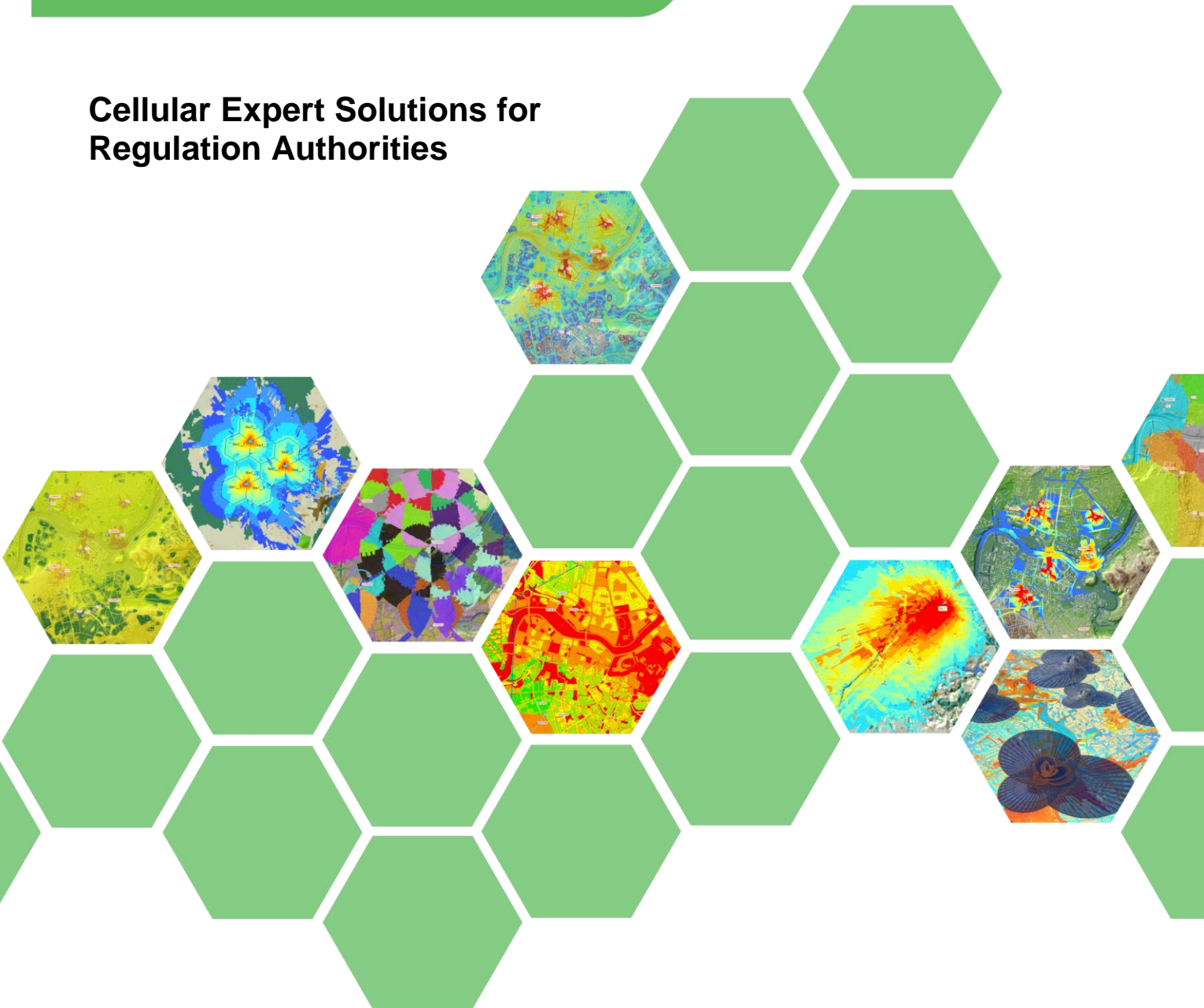


CASE STUDY

Cellular Expert Solutions for Regulation Authorities





Cellular Expert Implementation at National Telecommunication Agency of Croatia

About the company

The Croatian Post and Electronic Communications Agency (HAKOM), located in Zagreb, is a national regulatory agency carrying out regulatory and other tasks under the scope and competence prescribed by the Electronic Communications Act and the Postal Act regulating the postal services sector. The Agency promotes competition in the provision of electronic communications networks and services and electronic communications infrastructure and associated facilities, also it promotes interests of users of services and contributes to the development of the internal market of the European Union.

Project scope:

HAKOM is a regulatory authority, so it has to manage many networks of different operators, internet providers, telecoms and other companies who have radio networks. HAKOM as a regulator has to ensure that those companies would not exceed acceptable norms and standards. Therefore, HAKOM needed reliable tool for checking interference between different networks. Some examples of using Cellular Expert in HAKOM:

- ✓ **RF data exchange with local Telco operators**
- ✓ **Radio Spectrum Analysis and Management**
- ✓ **Visualize and map wireless network nationwide**
- ✓ **Calculate network coverage and gaps, analyse interference of all operators and service providers**
- ✓ **Perform automated cell and frequency planning**
- ✓ **Analyse power flux density**

At the beginning of the project, CELLULAR EXPERT COMPANY provided trainings for HAKOM engineers how to apply Cellular Expert to their work processes. Also, HAKOM constantly exchanges big amounts of data with companies operating radio networks. The data is presented in Excel (XLS) format. So, HAKOM specialists must



constantly import data from and export back to XLS format. To ease the data exchange process and make it more effective, our professional specialists has developed customized Cellular Expert import/export tool. To ease the work with a newly developed tool, a user guide was prepared and introduced for HAKOM staff.

Business value:

Cellular Expert software provides HAKOM with a set of benefits. Firstly, Cellular Expert generates various reports, calculates network coverage, analyzes interference of all Telecommunication companies, and performs many other tasks, which are very important for regulatory authority. Secondly, Cellular Expert allows HAKOM specialists quickly and efficiently exchange data with Telecommunication companies. As a result, HAKOM saves much time and exchanges data very easily and conveniently.

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