CELLULAR EXPERT

COMPANY PROFILE

Telecommunication Network Planning & Operations System in ArcGIS
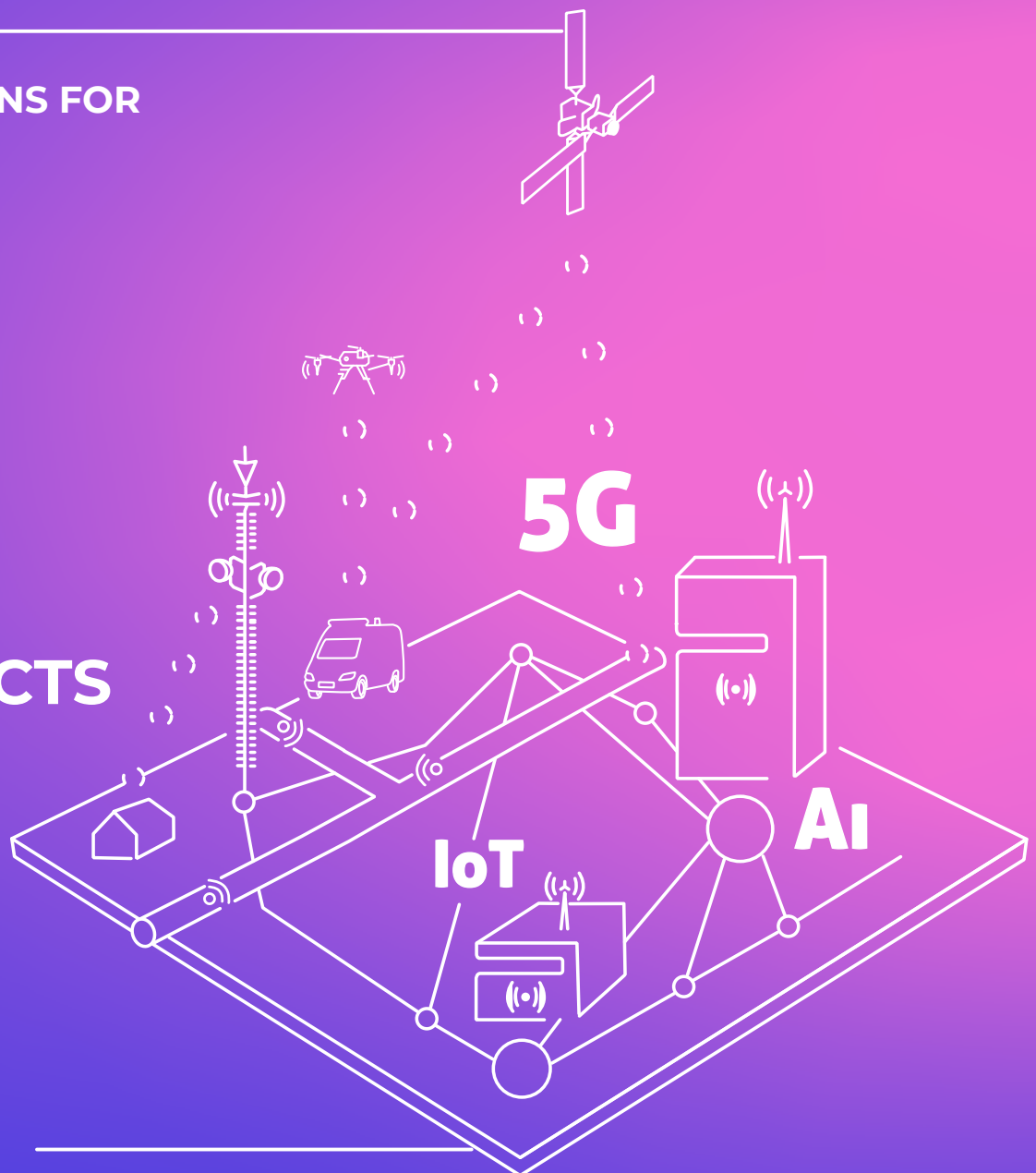
ABOUT

SOLUTIONS FOR

WHY US?

PRODUCTS

5G

IoT

Ai

CONTACT

COMPANY PROFILE
ABOUT

» Cellular Expert specializes in the development of communications planning and operations enhancement software based on ESRI's ArcGIS. The company develops and supports a set of Cellular Expert software products, provides implementation, integration services within Telecom, Defense, other companies and organizations. Cellular Expert also provides professional services in Radio propagation calculations, Broadband service mapping, coverage calculations, consultancy in wireless telecom networks planning and optimization.

» The company's roots go back to 1995, when working on GIS implementation projects in Telecom. In 2000, Cellular Expert was introduced to the market as a GIS-based wireless network planning software. Cellular Expert has exclusive in-house knowledge in wireless propagation, modeling algorithms and their implementation in GIS environment, with more than 20 years' experience in the development and providing worldwide support for analytical GIS software, extensive experience in telecom networks planning and optimization consultancy, broadband mapping, coverage calculations projects.

» **The 25 years of dedicated work and the diverse clientele have granted us the expertise that is implemented in the Cellular Expert system. We enhance the intelligence and business efficiency for more than 170 communication network companies, defense organizations in more than 50 countries.**

» **The company is a part of** HNIT group of companies, ESRI Distributors in Iceland, Lithuania, Latvia and Estonia, which have around 100 employees in 4 countries.
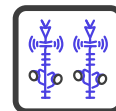
SOLUTIONS FOR

Mobile | Cellular
Broadband network operators

LoRa | Other IoT
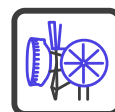Wireless network companies

Tower Infrastructure Companies
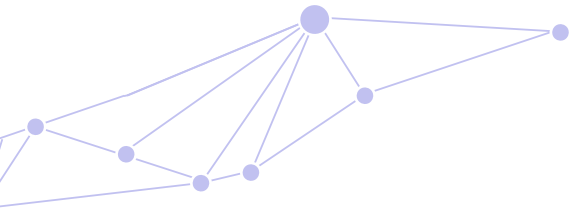
Public Security & Defense

Utility companies
For private communication networks

Communication Regulators

WHY US?

We enhance business efficiency for more than 170 communication network companies in more than 50 countries. They trust our market practices in wireless communication network planning and operations.
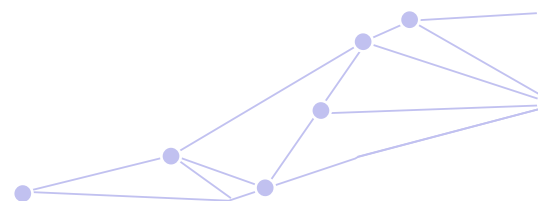
Cellular Expert has a wide range of consistently updated functional features pioneering the market. We collaborate with leading data and technology partners, integrating seamlessly with other standard systems in the communications market.

We specialize in the development of **GIS-based communications planning and operations enhancement software.** The 25 years of dedicated work and the diverse clientele have granted us expertise, which is implemented in the Cellular Expert system.

Cellular Expert is a high-quality, reliable system **supported by the intertwining global network of ESRI distributors and Cellular Expert partners.** We provide local software support and professional services for communication network planning and operations.

PRODUCTS

Cellular Expert Desktop

CE Visibility | CE Radio | CE Trans

Cellular Expert Desktop is a professional wireless radio and transmission planning software licensed as three products: CE Visibility, CE Radio and CE Trans. It allows radio signal prediction calculations and analysis based on ITU-R, ETSI, and COST 231 standards within the ArcGIS Pro environment. The software is versatile, functional and simple, thus holistically covering the network design functionality needs of most professional RF, Radio, and Fiber backbone network engineers supporting network planning and optimization for the entire spectrum of wireless technologies from 100 MHz to 100 GHz:

2G/3G/4G/5G networks (GSM, DCS, CDMA, CDMA2000, WCDMA, UMTS, HSPA, LTE, 5G, CBRS, small cells)	**IoT networks** (NB-IoT, LoRa, SigFox)	**Military and critical communications networks** (TETRA, TETRAPOL, APCO, P25, Mesh networks, UHF, VHF...))
Broadband access networks (LMDS, MMDS, WLL)	**Other wireless access networks** (WiMAX, WiFi)	**Radio and TV broadcasting networks** (DAB, DVB-T, T-DAB)

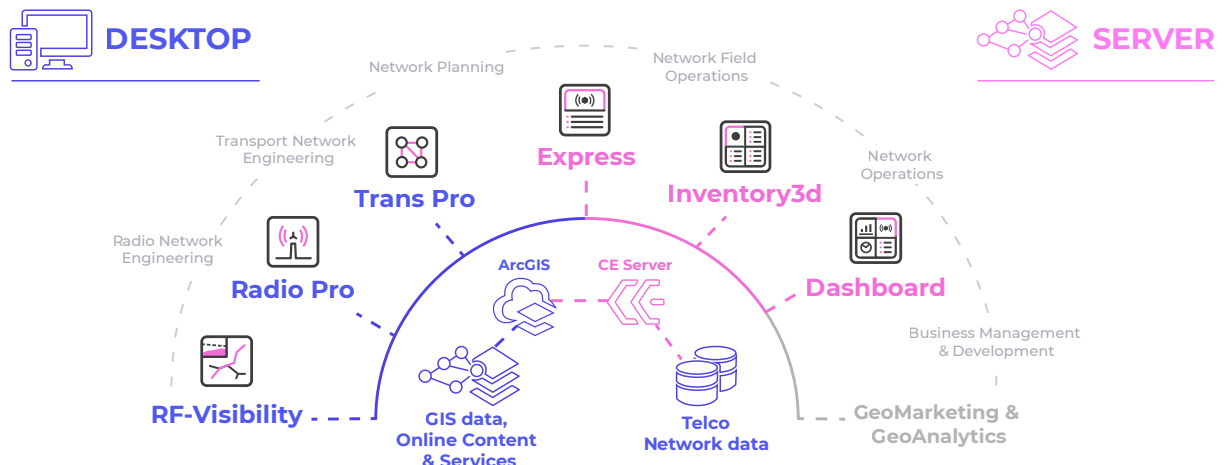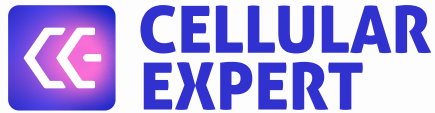|	
Other wireless technologies in frequency range up to 100 GHz	**Microwave transmission networks**

Cellular Expert Server

CE Express | Inventory 3D | Dashboard

Cellular Expert Server is an Enterprise system, deployable on an organization's internal Cloud. The system consists of several products: Express, Inventory3d, and Dashboard, providing a **web-based platform and applications for task-focused planning, engineering, rollout, operations, and maintenance of communication networks.**

Cellular Expert Server products provide operators with centralized, scalable data storage, improve network data integrity, and deliver multi user access (editing & sharing capabilities) to users across organizational boundaries. The system is integratable into different telecom enterprise IT systems, including network monitoring (NMS and NOC), customer service, billing and business intelligence; it aggregates and processes the data to calculate the essential telecom performance indicators (KPIs) for the company's management, and helps to ensure the control of network service level (SLAs) agreed with the clients.

DESKTOP

- Network Planning
- Transport Network Engineering
- Radio Network Engineering

Trans Pro
Express
Radio Pro
RF-Visibility

ArcGIS
CE Server
GIS data, Online Content & Services
Telco Network data

SERVER

- Network Field Operations
- Network Operations
- Business Management & Development
- GeoMarketing & GeoAnalytics

Inventory3d
Dashboard

CONTACTS

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SERVICES

Cellular Expert works with its global and local partners in providing and supporting Cellular Expert's products, providing their implementation, integration in the IT/GIS systems of Telecom, Defense, and other companies and organizations.

Cellular Expert also provides professional services in Radio propagation, Broadband service coverage, statistics calculations, mapping, consultancy in wireless telecom networks planning and optimization. **Cellular Expert has in-house knowledge** in wireless propagation modeling algorithms, the experience in their implementation in a GIS environment, and can customize the analytical communication networks quality and capacity calculations algorithms implementation for the project calculations, product or system integration.

CLIENTS

TELECOM GIS SOFTWARE

CELLULAR EXPERT

cellular-expert.com