

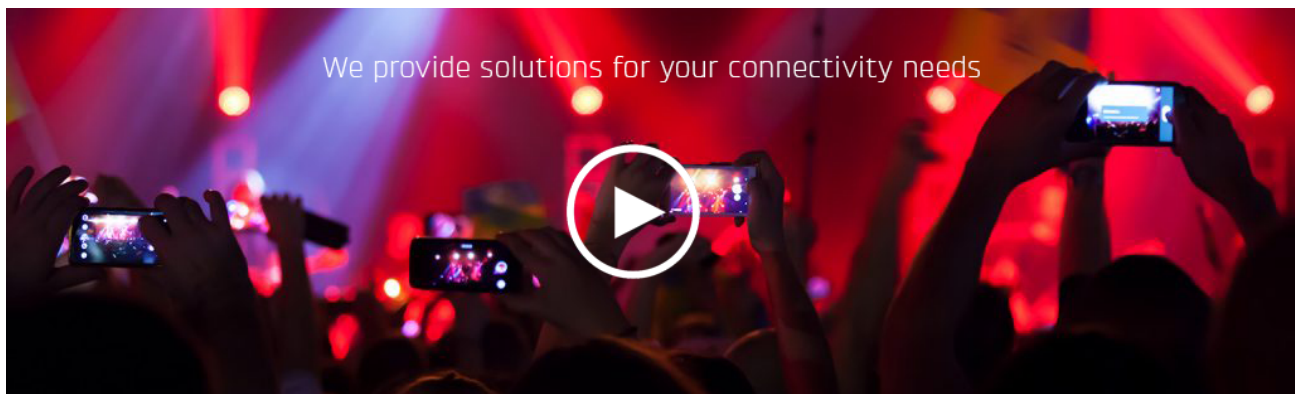
DAS & Small Cells

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The **DAS (distributed antenna system) & Small Cells** business unit of Cellnex is an expert in the development of applications based on DAS & Small Cells and a benchmark for mobile coverage systems in high footfall areas. The DAS and Small Cells systems are one of the core infrastructure from which the new 5G communication standard will be deployed.

A **distributed antenna system (DAS)** is a network of spatially separate antenna nodes connected to a common source via a transport system that provides wireless services within a geographical area or a building. **DAS** can be installed in buildings to boost wireless signals inside them. They are often located within large facilities such as stadiums or company premises. Cellnex uses DAS systems and provide DASaaS ("DAS as a Service") using an end-to-end approach.

We are aiming to improve coverage and repeater capacity of the mobile radio signal in specific areas serving mobile operators, both with structures dedicated to a single operator and in multi-standard/multi-frequency and multi-operator "neutral host" mode, since a single antenna can distribute the signal for several frequencies and several operators simultaneously.



Cellnex has designed and built, and now manages, approximately **1,500 multi-system and multi-operator nodes** in the main high-traffic areas such as: underground railways (metros), stadiums and arenas, overground railways, outdoor multi-operator microcells, shopping centres, skyscrapers, hospitals and airports.

Projects developed in Europe

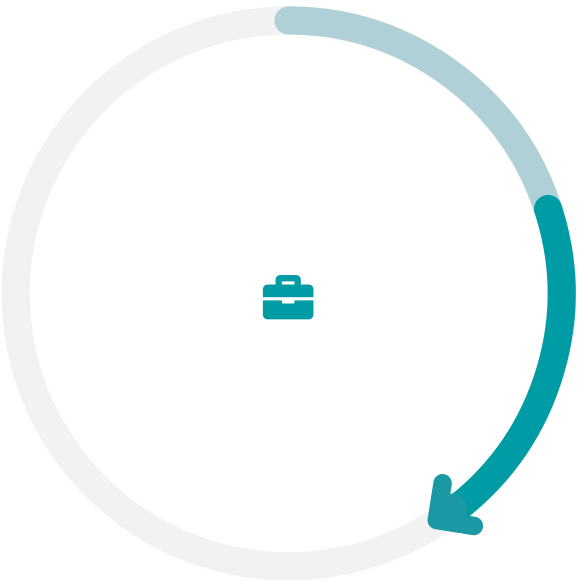
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Our Proven Process Produces Results



1. VALUE PROPOSITION AND PRESALES

Site survey, Requirements assessment, Site acquisition, Concept Design, Project financing, Negotiation and Contracts signing



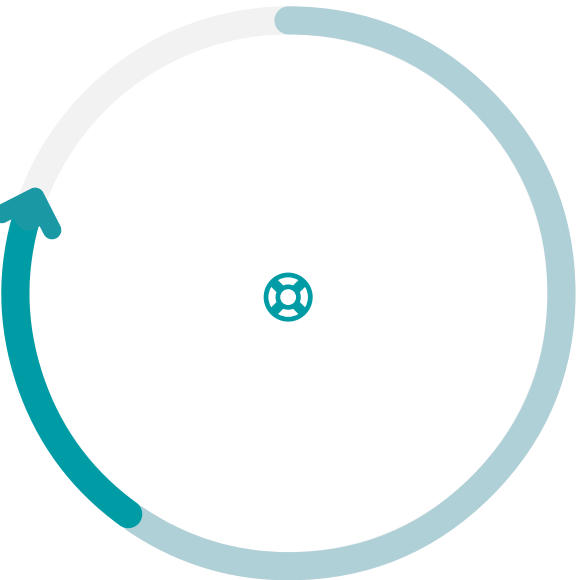
2. DESIGN & COMMERCIAL

Network Design, Contracting and Network Design completion



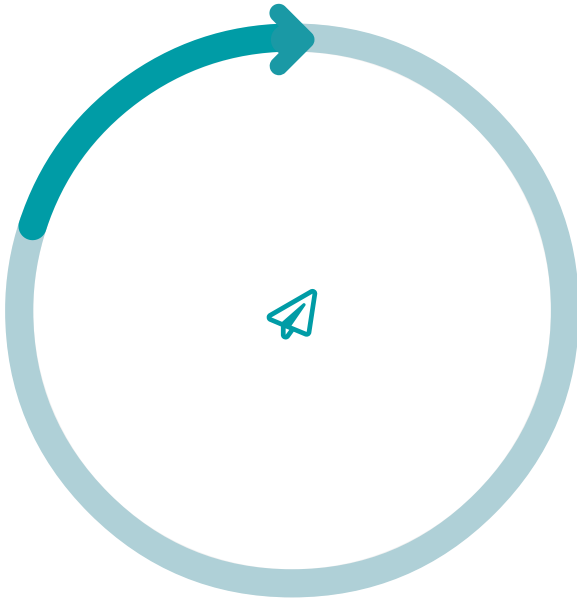
3. IMPLEMENTATION & EXECUTION

Construction management, Safety & Permitting, Staffing, Logistic, Installation



4. COMMISSIONING & DELIVERY

Setting and delivery, Service start-up



5. OPERATION & SUPERVISION

Supervision by NOC, Maintenance, Network Quality and Service Quality

Why Cellnex?

Cellnex acts as a neutral operator to help operator and site owners/managers to find the optimal solution in the face of the increasing need for coverage and capacity in complex environments. We can manage site acquisition, design, installation, set-up, operation and maintenance, supervision and quality control of the service.

Connectivity for mobile Operators

How can good mobile connectivity be ensured in crowded and difficult-to-reach places, such as stadiums and arenas, shopping centers, airports, hospitals, subways and hotels? Cellnex satisfies the requirements of mobile phone users who are demanding coverage anywhere, any time, using DAS and Small Cells.

Attractive for owner of venues

With around 80% of mobile traffic originating or terminating indoors, it is critical that visitors, residents and workers have access to a reliable connectivity. Reliable mobile connectivity is known to increase venue desirability and so fitting your buildings with optimal in-building cellular coverage and capability is the right solution.

