

Outstanding Mobile Connectivity with Distributed Antenna Systems

Providing additional capacity in hyper dense areas or covering unserved ones, complementing current macro base stations deployments: Small Cells and Distributed Antenna Systems (DAS) are forms of network densification. Instead of providing coverage with high power base stations, Cellnex provides tailored coverage with a system of distributed radios and antennas.



This allows outstanding mobile connectivity in spots where large numbers of users are concentrated, such as stadiums, skyscrapers, shopping malls, crowded outdoor areas or airports.

80% of mobile traffic begins or ends in enclosed areas. It is essential that visitors, residents and workers have access to reliable connectivity. In the digital age, mobile connectivity is no longer a hope: it is an expectation.

An indoor solution ensures that employees, visitors and tenants have complete mobile coverage in all areas of the buildings.

These solutions also provide excellent coverage to underground areas like tunnels, car parks or railway stations.



Cellnex neutral host model enabling a multi-operator turnkey solution



As a Service operational model managing the complete life cycle of the solution: permits, design, installation, commissioning, 0&M, and service quality assurance.



PROPOSAL

- Infrastructure selection
- Conceptual design



- Infrastructure ratification
- Design
- Site survey



IMPLEMENTATION

- Adaptation
- Equipment management
- Integration
- Installation
- Licences



VALIDATION AND ACCEPTANCE

- Service validation
- Commissioning
- Optimization



OPERATION AND MANAGEMENT

- First level management
- NOC 24x7
- Service monitoring
- Network configuration
- KPIs control
- Strict SLA

Cellnex Value Proposition is based on flexibility to offer As a Service / Trade based models together with the financing capability and financial flexibility to deliver CAPEX/OPEX based solutions

Cellnex deploys multi-operator solutions, so that a common telecom infrastructure can be used by different MNOs.

Sharing infrastructure results in an improvement in cost efficiency and minimizes the visual impact. The open model allowed by Cellnex is beneficial for all engaged parties and provides universal service to all users, regardless of which MNO they are subscribed to.

Mobile operators are the license holders and therefore own the frequencies. You cannot feed a signal without their permission. The alignment with mobile operators is a specialty that requires a lot of experience and a deep understanding of radio networks. Our vast experience and role as your SPoC reduces the time to market while providing an excellent quality of service.

Independent player, Open model

Sustainable deployments and commitment to Underlying connectivity solutions for digital experience meet stringent requirements on H&S Quality of life Making the most of existing infrastructures Social inclusion The Controlled number of new sites deployed The · Smart services & Better user experience Regulator Following Planning Authorities requirements Citizen · H&S requirement's meet Camouflage within the environment **Competitiveness to Governments** Valuable sites to all MNOs Revenue • Our shared infrastructures are an Established Public · Positioning as the enabler for asset of value to all MNOs relationships services to the stakeholders **Bodies** Existing contracts with the MNOs with MNOs The open model Long term projects in Europe allowed by Cellnex • Efficient management Densification, 5G deployment, neutral host is BTS, Network Optimization Public safety networks and services beneficial for all engaged parties Within urban and dense environments The benefits of sharing the Optimal city / in-building coverage passive infrastructure Private The improves productivity Cost sharing **Business** MNO Reliable coverage increases benefits to • Shorter Time to Market businesses in the area Spectrum management Intermodal activation (cooperation with Better capacity and coverage the stakeholders in the ecosystem) Bringing Unparalleled **Augmented Tower** innovation Our numbers Experience to market • The tower of the future: connected, smart, green More than 128k sites, towers and communication · Adjacent assets: fibre, data centres nodes across Europe

Our References

+4,700 nodes

Main European MNOs as key customers

Tenancy ratio 3



