CELTIC Proposers Day:

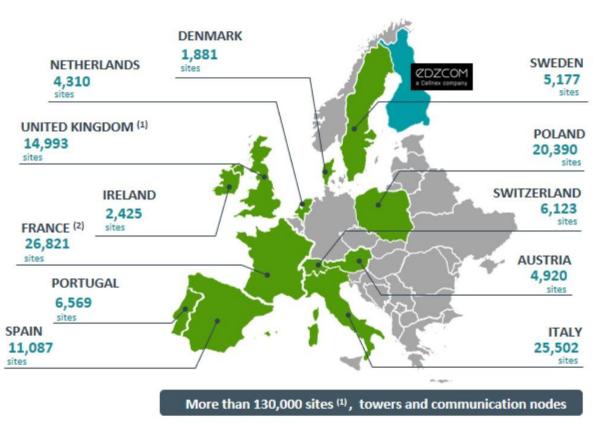
Evolution of Tower Business and 5G Private Networks Celinex





Jose Antonio Aranda, Global Director of Innovation and Product Strategy - 26 January 2022

The Cellnex portfolio – The leading tower operator in Europe





WINDTRE

MÁSMÓVIL



15+ Cellnex customers

Telefinica

Plus *

Polkomtel S.A.

Sunrise

Including transactions not yet closed

In addition, a Fiber-to-the-Tower project with Bouygues Telecom in place





From TowerCo to InfraCo





Objectives

· Specialist in passive infrastructure management

Search for network efficiency

- Commercialization
- Site hunting
- Full portfolio commercialization

Become an MNO partner of trust

- other passive assets
- · Push for network sharing amongst operators

Increased presence in value chain

Small Cells

















Distributed Antenna System





Stadiums



Sport Halls



Concert Halls



Shopping Centers



Skyscrapers



Hospitals



Underground



Railways



Tunnels



Airports

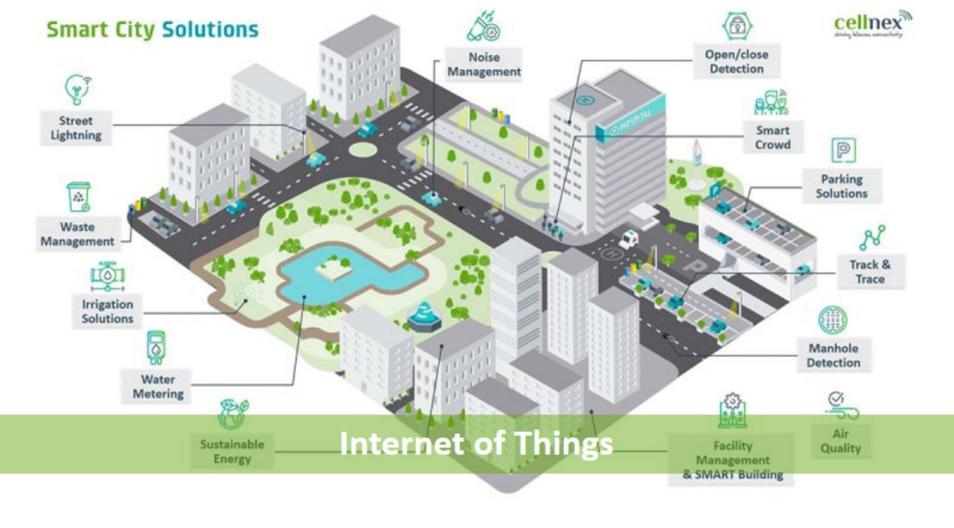


City Centers



Car Parks





0.





5G FOR TOWERCOS: DATACENTERS



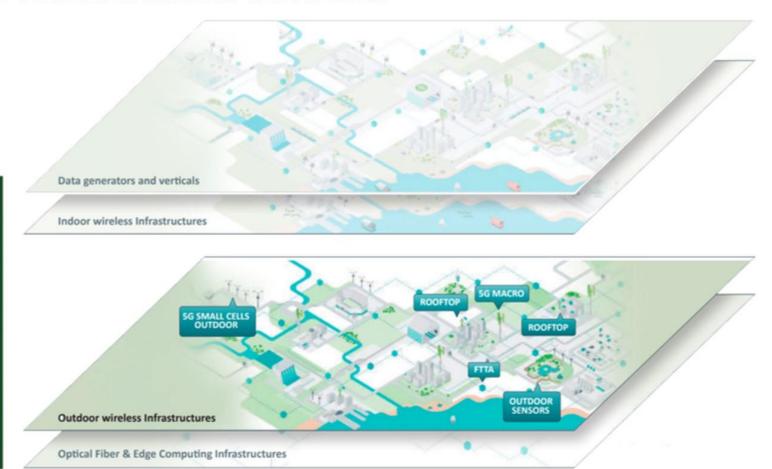
Product Strategy and Innovation

1

5G FOR TOWERCOS: OUTDOOR



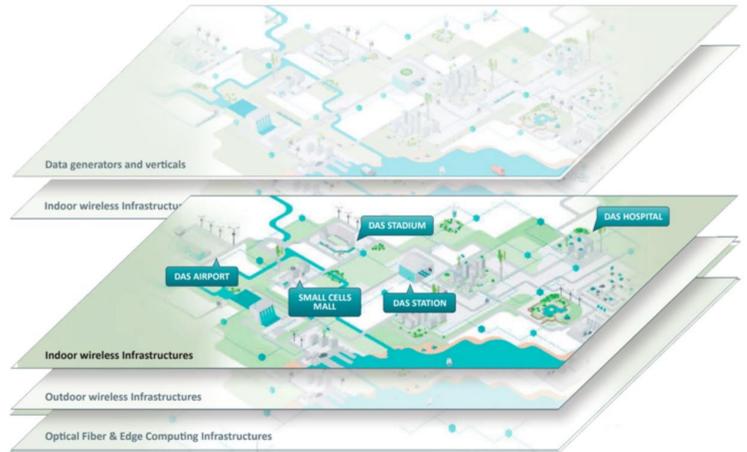
TECHNOLOGY ENABLERS



5G FOR TOWERCOS: INDOOR

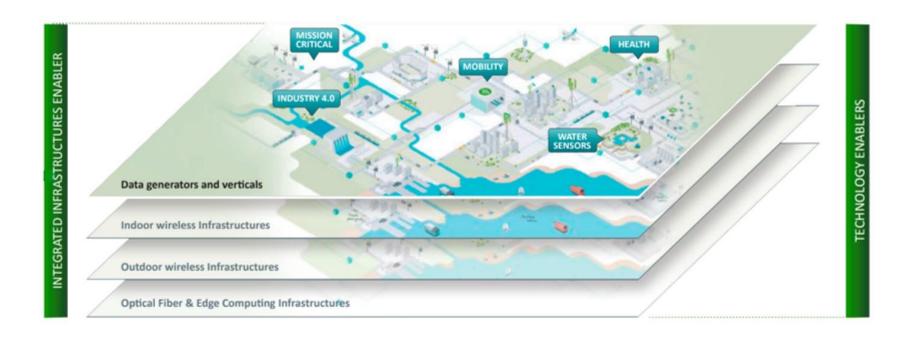


TECHNOLOGY ENABLERS



5G FOR TOWERCOS: VERTICALS

















Certified from outset for safe flight in civil airspace

Aircraft Design

SPL platform can carry 120kg payload for high-spec antennas

Endurance target of > 9 days

Wingspan: 65m

Wing area: 197m²

Length: 21m

Height: 5.3m

Altitude: 60,000ft

SPLPlatform

Connectivity System

Phased-array antenna designed for unmodified ETWORK phones delivering ubiquitous broadband

connectivity at high speeds and low latency

Next generation technology (CAIB)* enables very high bandwidth

SPL platform uses hydrogen fuel cell power system which provides high power levels

NON TERRESTRIAL

for communications equipment and long endurance

Does not rely on low power solar energy

*Co-Operative Aerial Inter-Antenna Beamforming



Private Networks



Utilities & Energy Generation



Manufacturing



Transport & Logistics

Mining

Chemical



Mobility





Castelloli → 2018



5GMED → 2020

AVGs → 2022