

A Broadband Network to fit the Digital Transformation with purpose

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ETSI F5G and Broadband Forum: Jointly Evolving towards Fibre to Everything & Everywhere Oct, 19th, WBF - Network X Altice Europe Global Operator



4 countries

France Portugal Dominican Israel Republic

30M customers

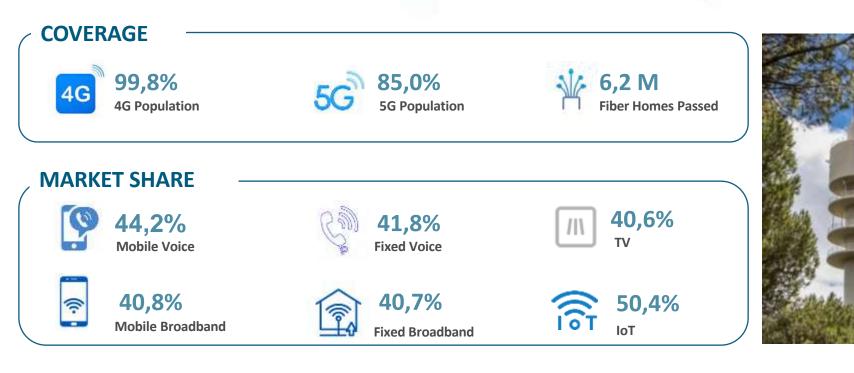
Leadership in convergence

Telecommunications Media and Content Publicity and Entertainement





Leadership in fixed voice, fixed broadband, mobile voice, mobile broadband, TV and packages



The Digital Transformation iceberg What we see and we won't see!

+Think Digital First +Interact Often +CRM, ERP, HCM, SCM +Big Data +AI/ML +Analytics +Edge and Public Cloud Customer Experience Centricity Digital Services & Apps

> IT Tools Data Cloud Automation Security

+Innovation +Digital Strategy +Culture +Processes +Talent +Governance +Sustainability

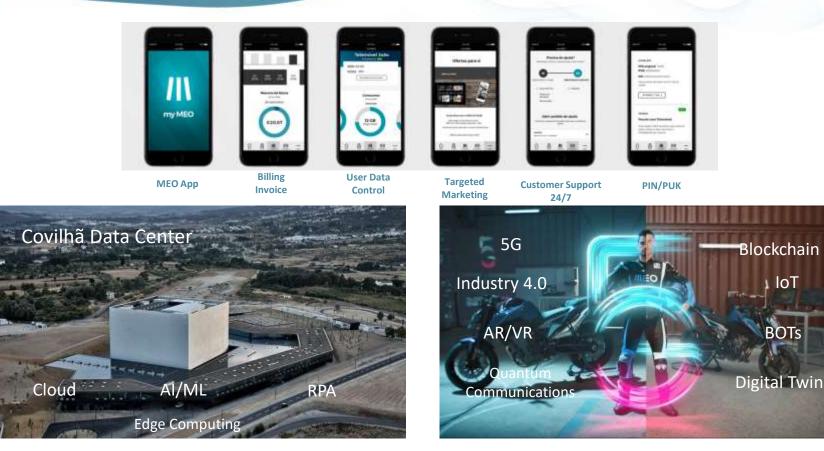


Broadband Connectivity



Altice Portugal Digital Transformation Our customer and technology journey

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Altice Portugal Digital Transformation Network and OSS/BBS journeys



Smart Connectivity



Automated fulfillment Close loop assurance Secure by Design API Expose



Cloud based OSS/BSS

Agile, SaaS

APIs

IT Transformation

Technology

Transformation

Best value for the Money



Organization & People Transformation

Organization and skills

Digital First Services

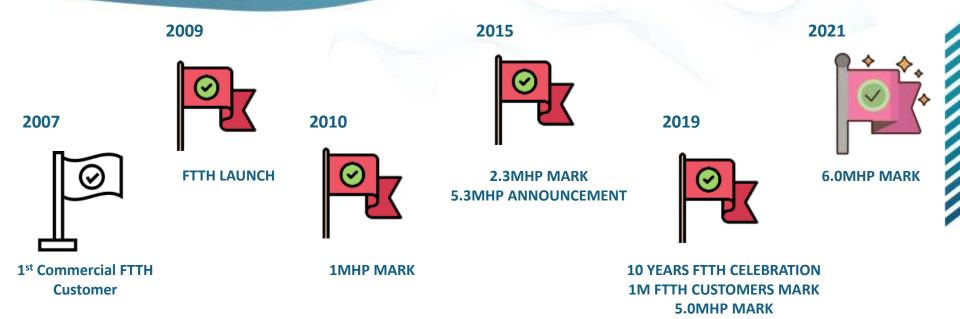
Business Transformation

Digital with purpose Sustainability

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Altice Portugal pioneer of a successful story FTTH important milestones





Deployed a FTTH Network and offered Broadband Services to all and everywhere! **100% Fibre Zones** On the path to a fully optical network (0% Copper; Copper Phase-Out)

100% FIBRE

Ca. 40% of CO* currently ongoing Ca. 60% of CO* planned (until 2030)

+ Reliability

+ Energy Efficiency

+ Economic Efficiency

+ Value Proposition for Customers+ Value Proposition for Investors



100% FIBRE

Ca. 1000 Parishes (30% of total parishes)

*Central Offices

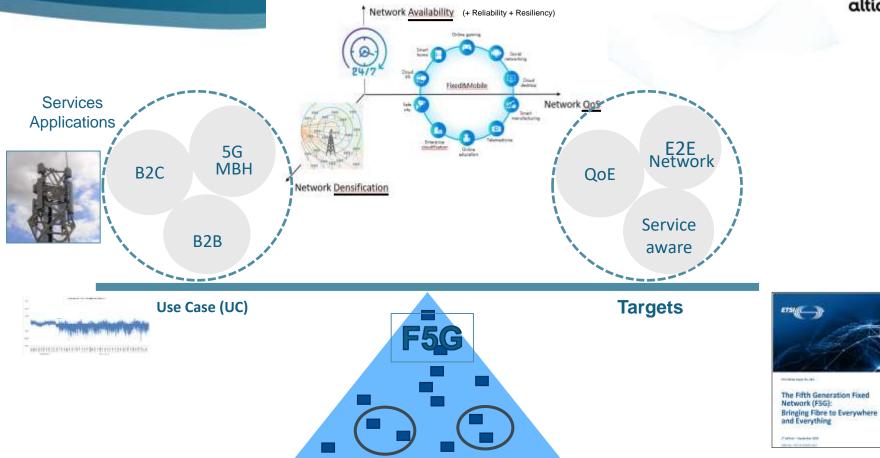
A FTTx for multiple access and aggregation A pillar for sustainability





Altice Contribution to the F5G ETSI ISG Bringing the Experience





Guidelines to evolve the Broadband Network Building the future economy landscape

Main Goals

i. Delivery E2E service experience

_Delivery the bandwidth, latency, and QOE for existing and future applications and services with purpose

_Answering the connectivity requirements to consumers, to enterprises, to vertical industries supporting them for the Digital Transformation

ii. Sustainability

_Environment responsible, reduce carbon and waste _Financial return ROI for operators and industry

iii. Collaborative and inclusive for all

_Cooperation between operators, industries, SDOs, governments & regulators

_Promote the digital transformation and the economy at a National level

Design Guidelines

1. Service Adaptable Network

_One network for all services. Multiservice, end users and network support services _Services SLAs adaptable network

2. Simple and Scalable_Simple network layers_Use of technologies with purpose

3. Programmable and automated _SDN approach _Autonomous, reduce O&M complexity

4. Service consistency and resilience by design _Planned for resiliency and QoE guarantee

5. Security by design _E2E perimeter security

Fixed and Mobile Broadband Getting the best from each



F5G and 5G complement each other.

And their combination is essential for investment optimization and business sustainability!



F5G Home Campus

Private Line

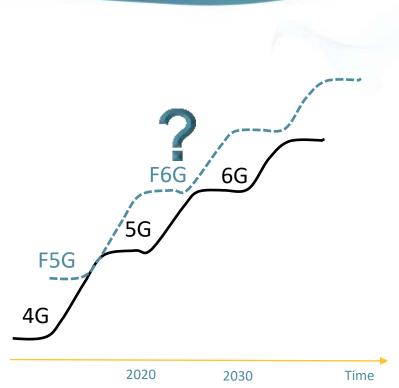
Assured Service Experience High Speed Stable Service Immune to interference Flexible Connectivity Wide coverage Outdoor mobility Massive device connectivity 5G

Mobile Access

Network Investment Cycles Getting the balance



Network Investment



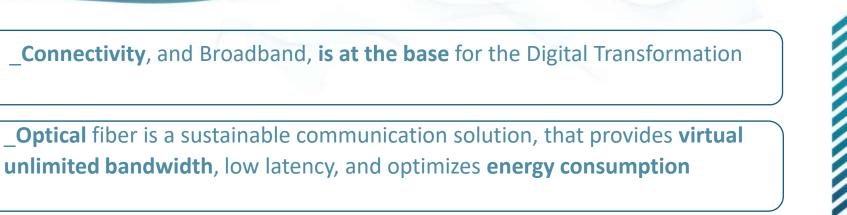
_Additional financial resources would be necessary if operators need to simultaneously deploy new fixed and mobile generations

_Human Resources are a precious asset and need to be allocated per project

_Network stability is required to delivery service consistency QOE

Wrap Up







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_The **Broadband Network** impacts national level **economy** GDP, with **benefits** to **consumers, enterprises and vertical industry**



_Collaboration and cooperation between operators, industry, SDOs, Governments and Regulators are needed to evolve to the next Broadband Generation!



DANKE | THANK YOU | MERCI | OBRIGADO

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Together has no limits