



# THE SUBMARINE CONNECTIVITY AND THE DATA GATEWAYS

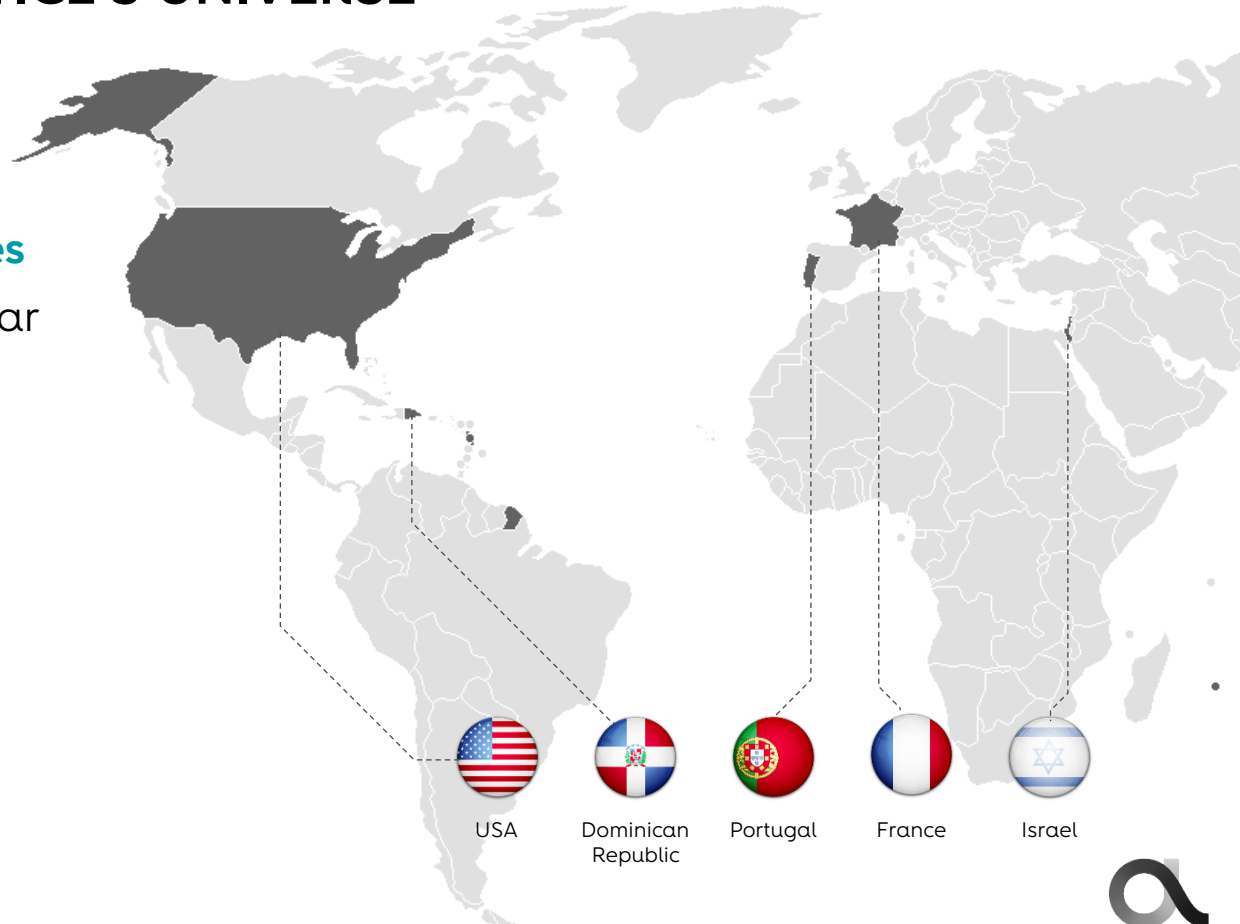
AltiCE Portugal  
**Europe's front door**



# A QUICK LOOK INTO ALTICE'S UNIVERSE

- Presence in **5 main territories**
- **€ ~24Bn** in revenues last year
- More than **55M customers**
- **R&D “Made in Portugal”** exported to +60 countries

## Major Telco Brands



# A QUICK LOOK INTO ALTICE'S UNIVERSE

## Portuguese Operation

**98,3%\***

POPULATION  
COVERAGE  
4G

**74,6%\***

POPULATION  
COVERAGE  
4G+

**~6M**

HOMES FTTH



Sources: Altice press release and Last ANACOM Report (Dec, 20)

## LEADERSHIP IN ALL BUSINESS LINES

### MARKET SHARE

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**45,1%**

MOBILE

**38,6%**

MOBILE BB

**45,0%**

FIXED VOICE

**40,5%**

FIXED BB

**40,5%**

3, 4 and 5P

**40,0%**

TV
















# A QUICK LOOK INTO ALTICE'S UNIVERSE

## INTERNATIONAL NETWORK

Consortium member and capacity owner in submarine cable systems connecting all continents, 6 of these land in our stations

Altogether Altice owns capacity in 15 international or regional cable systems

### SUBMARINE CABLES

 Atlantis-2	 Antilas 1	 CAM Ring	 TGN-WE	 LION2
 Americas-I	 Taino	 Columbus-II	 WACS	 EIG
 Americas-II	 ARCOS	 METISS	 SAT-3/SAFE	 SeaMeWe 3

Capacity owned by Altice Portugal

Capacity owned by other Altice OpCos.

# A QUICK LOOK INTO ALTICE'S UNIVERSE

## INTERNATIONAL NETWORK

10 international POP managed by Portugal

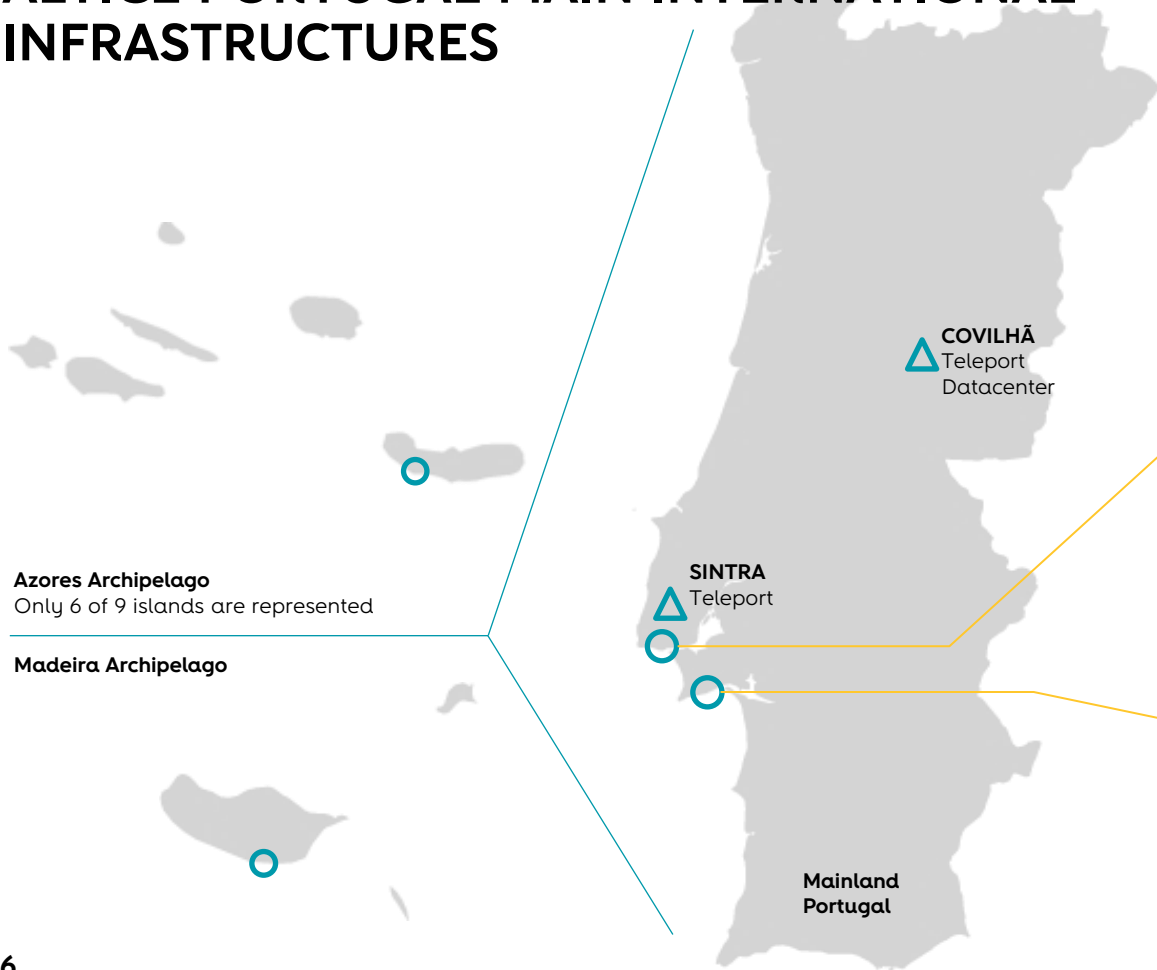
- |             |            |
|-------------|------------|
| London (x2) | Madrid     |
| Paris (x2)  | New York   |
| Amsterdam   | Washington |
| Frankfurt   | Miami      |

that combine with other OpCos POPs to form the **Altice International Backbone**

### INTERNATIONAL POP's

- Managed by Altice Portugal
- Partnership with other Altice OpCos

# ALTICE PORTUGAL MAIN INTERNATIONAL INFRASTRUCTURES



**Azores Archipelago**  
Only 6 of 9 islands are represented

**Madeira Archipelago**

**Mainland Portugal**

## MAINLAND CLS

- Both landing points face south, protected from the big swells of the Atlantic ocean
- **Short beach manhole (BMH) to cable landing station (CLS) routes**, ranging from 750m to 2700m.
- Permanently settled submarine cables corridor

## CARCAVELOS

- ACE, Atlantis-2, Bugio and CAM ring
- Up to date **only one fault occurred, in a total of 4 cable systems, benefiting from the permanently settled marine cable corridor**

## SESIMBRA

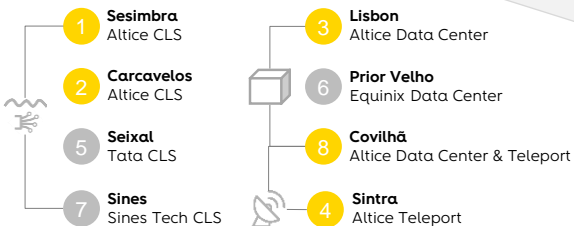
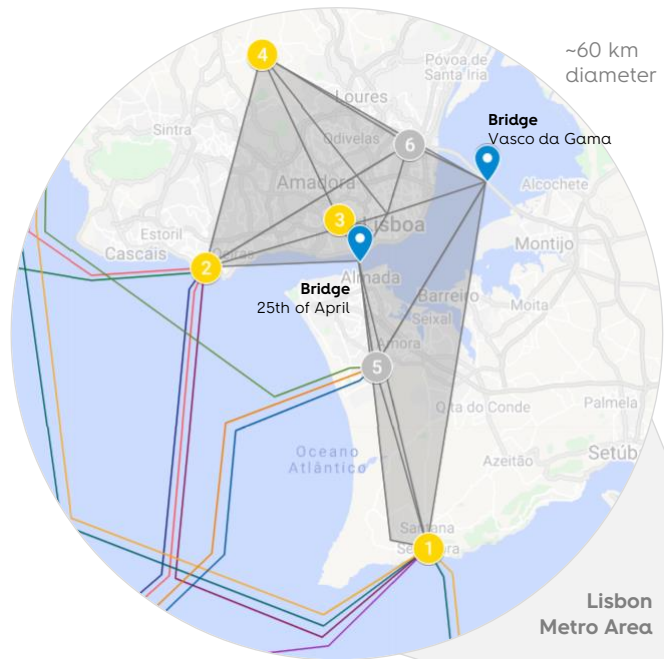
- Bugio, EIG, SAT-3, SeaMeWe-3, and Equiano
- **Sesimbra CLS has landed cables since 1969 and only two faults registered since**, in a total of 5 systems in service and 5 retired

# SERVICES FOR THE SUBMARINE CABLE INDUSTRY

Vast know-how, experience and capabilities from decades of direct involvement in the industry

Landing	Installation	O&M	Consortia Management
Fronthaul	Planning	Fault repair Consultancy	(Co-) Chair of MC, O&M and F&A committees
Space & Power	Route Engineering, Charting and Survey	E2E Fault repair Coordination	Central Billing Party
CLS Equipment O&M	Onboard inspection	Onboard inspection	Cost Review Party/Function
CLS-POP Interconnection		Power Security Officer	
POP Equipment O&M		NOC	
Permitting Consultancy			

# PORTUGAL AND LISBON INFRASTRUCTURE ECOSYSTEM



**150 YEARS**

SINCE FIRST INTERNATIONAL TELEGRAPH CABLE LANDED IN LISBON



**4**

CABLE LANDING STATIONS



**10**

SUBMARINE CABLES CURRENTLY LANDED



**6**

NEW INTERNATIONAL SUBMARINE CABLES EXPECTED TO LAND FROM 2021 TO 2024



**1**

LARGE SCALE CARRIER NEUTRAL DATA CENTER



**~45**

CONNECTED NETWORK PROVIDERS



**12**

HECTARES (30 ACRES) TELEPORT SPACE WITH +4 HECTARES OF FREE SPACE



**3**

HOSTED SATELLITE GATEWAYS, 1 LEO, 1 MEO AND 1 GEO



**1**

NEW HOSTED SATELLITE GATEWAY FOR A LEO OPERATOR EXPECTED UNTIL END OF 2021



**BACKHAUL**

DIVERSE FIBER AND 10/100G WDM ROUTES BETWEEN EACH AND EVERY INFRASTRUCTURE



**+5**

DIVERSE FIBER ROUTES, AMONGST SEVERAL PROVIDERS, CONNECTING LISBON TO MADRID





# COVILHÃ DATA GATEWAY IN THE IBERIAN INTERCONNECTION LANDSCAPE



### SCALE

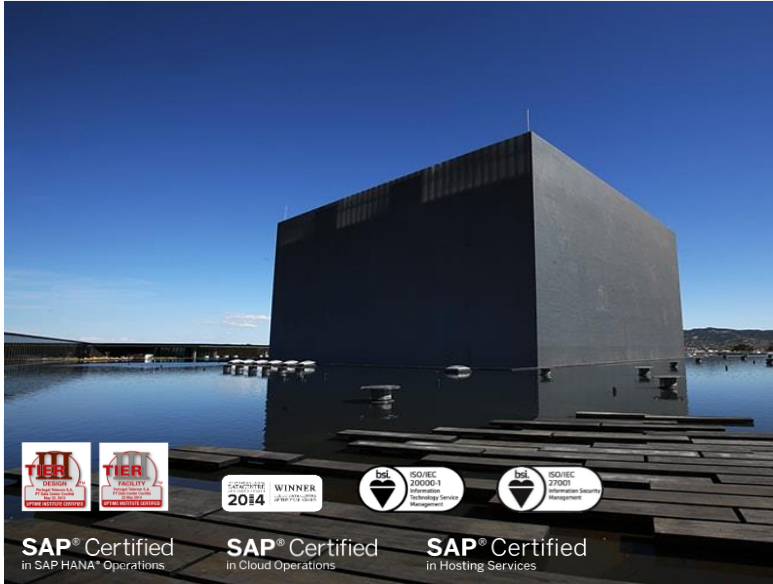
3.120 m2 of total white space (phase 1) and 7 MW of power

### EFFICIENCY

PUE < 1.25, renewable energy and reuse of rainwater

### RELIABILITY & REDUNDANCY 3x higher than Tier III

### A REFERENCE OF PHYSICAL AND LOGICAL SECURITY



# FINAL REMARKS

LISBON AS A TELECOMMUNICATIONS HUB

FULL OPENNESS AND FLEXIBILITY

HIGH QUALITY CONNECTIONS



Contact us:

[altice-international-wholesale@telecom.pt](mailto:altice-international-wholesale@telecom.pt)

[jorge-andrade-santos@telecom.pt](mailto:jorge-andrade-santos@telecom.pt)

**Together.**

**Has.**

**No limits.**