

Infrastructure & telecom Operator



February 2024

AFR-IX Telecom



AFR-IX telecom, incorporated in 2013, is an infrastructure and licensed telecommunication operator that delivers **Data, MPLS, SDN and advanced Managed solutions** in Africa:

Licenses in **Spain** (CNMC electronic and submarine), **Portugal** (Anacom), **USA** (FCC), **South Africa** (ICASA), **Nigeria** (NCC), **Ghana** (NCC), **DRC** (ART), **Mali** (ARCEP), **Burkina Faso** (ARCEP), **Sierra Leone** (NATCOM), **Cameroun** (ART), **Niger**, **Mauritania** and **Kenia**

Infrastructure subsea investments include:

- » **Barcelona Cable Landing Station.**
- » **Medusa Submarine Cable System** with operational subsidiaries in Ireland, Portugal, Spain, France, Italy, Greece & Cyprus.

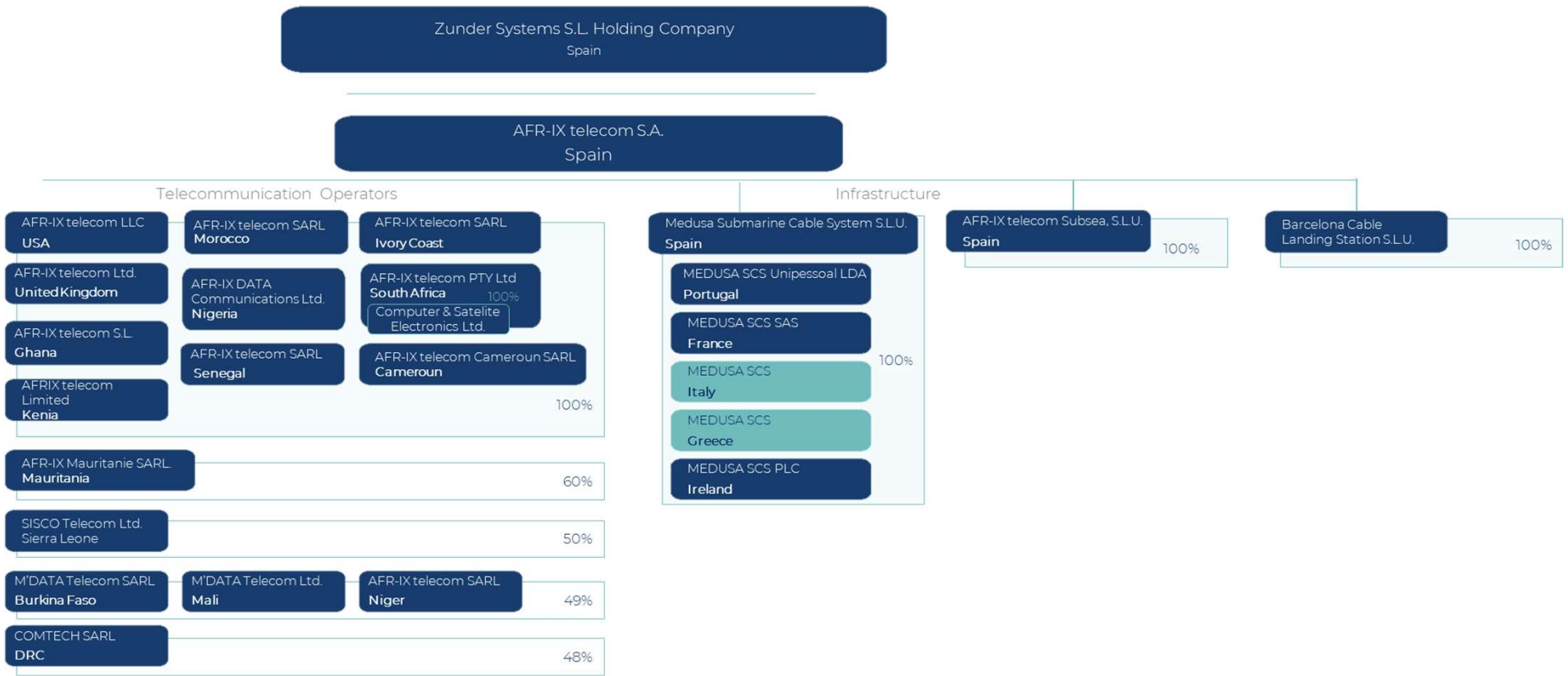
AFR-IX telecom is also **ISO 19600** and **Basel II** compliant and **UNE-ISO/IEC 27001:2014** certificated (2021).

- o Own staff for Operations and Maintenance, NOC in Barcelona.
- o **FT 1000:** as one of the Financial Times Europe's Fastest Growing Companies in 2022 (position 11 in Europe).



CERTIFICATION AUTHORITY ACCREDITED BY ENAC

About the Group



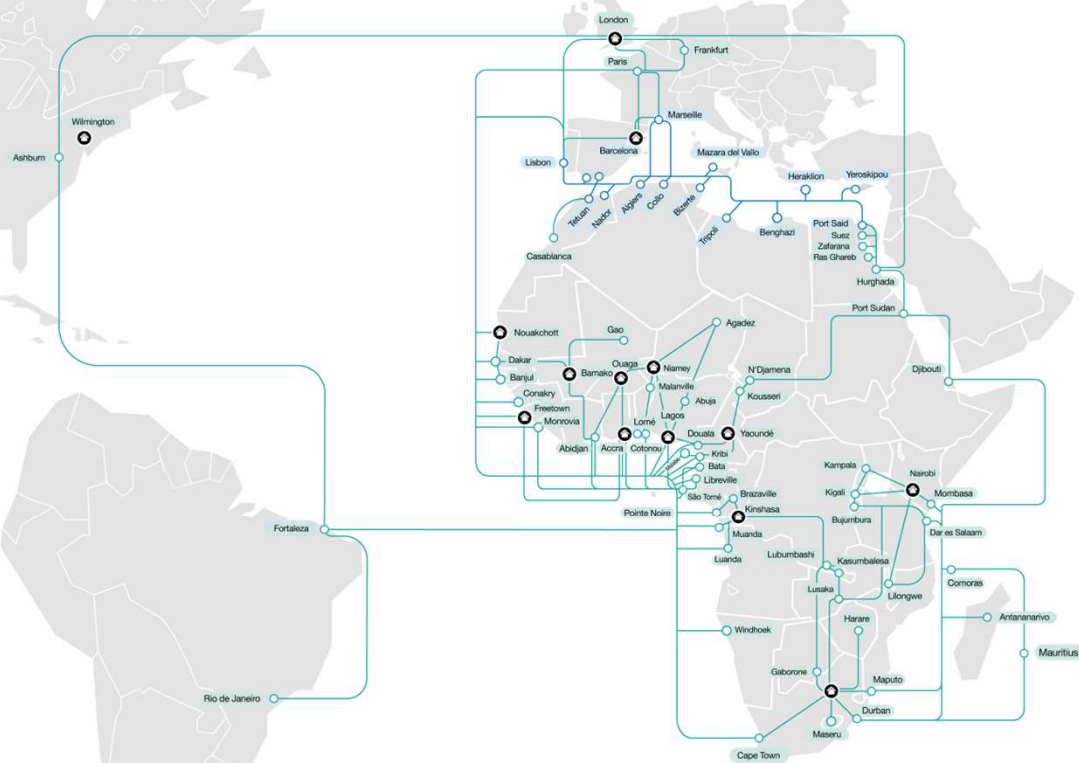
AFR-IX Data



- Founders: CEO & CTO AFR-IX Telecom
- No debt
- CISCO certified engineers
- EU Compliance Fulfillment
- UNE-ISO/IEC 27001:2014 Certification
- Ranked 11th in 2022 FT 1000 Financial Times
- POPs in more than 60 countries
- Group of +19 companies
- +60G International traffic
- Subsidiaries in 3 continents and 15 countries

Network

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- > 80 POPs in 3 continents
- All CISCO ASR series
- SD-WAN & MPLS available
- Segment routing

Member of:

- France-IX – Paris & Marseille
- Equinix IX - Ashburn, USA
- LINX - London
- DE-CIX - Frankfurt
- GigaPIX - Lisbon
- NAPAfrica - Cape town and Johannesburg)
- IXPN - Lagos
- DjIX - Djibouti
- Asteroid Mombasa IXP - Nairobi
- KINIX - Kinshasa
- Mozix - Maputo

AFR-IX Telecom POPs

Central Africa

- o N'Djamena, Chad
- o Kinshasa POP1, DRC
- o Kinshasa POP2, DRC
- o Kinshasa POP3, DRC
- o Kinshasa POP4, DRC
- o Muanda, DRC
- o Lubumbashi, DRC
- o Douala, Cameroun
- o Kribi, Cameroun
- o Kousseri, Cameroun
- o Bata, Equatorial Guinea
- o Malabo, Equatorial Guinea
- o Libreville, Gabon
- o São Tomé, São Tomé & Príncipe

South Africa

- o Johannesburg, South Africa
- o Cape town, South Africa
- o Durban, South Africa
- o Maputo, Mozambique
- o Maseru, Lesotho
- o Gaborone, Botswana
- o Luzaka, Zambia

North Africa

- o Casablanca, Morocco

West Africa

- o Cotonou, Benin
- o Malanville, Benin
- o Ouagadougou POP1, Burkina Faso
- o Ouagadougou POP2, Burkina Faso
- o Abidjan POP1, Ivory Coast
- o Abidjan POP2, Ivory Coast
- o Abidjan POP3, Ivory Coast
- o Pogo Border, Ivory Coast
- o Accra POP1, Ghana*
- o Accra POP2, Ghana
- o Conakry, Guinea
- o Freetown SISCO, Sierra Leone
- o Monrovia, Liberia
- o Niamey, Niger
- o Dakar POP1, Senegal
- o Dakar POP2, Senegal
- o Nouakchott, Mauritania
- o Lomé, Togo
- o Pointe Noire, Congo
- o Brazzaville POP1, Congo
- o Brazzaville POP2, Congo
- o Bamako, Mali
- o Gao, Mali
- o Lagos POP1, Nigeria
- o Lagos POP2, Nigeria
- o Luanda, Angola
- o Banjul, Gambia

East Africa

- o Antananarivo, Madagascar
- o Kigali, Ruanda
- o EADC Nairobi, Kenya
- o Mombasa Icolo, Kenya
- o Dar Es Salam, Tanzania
- o Harare, Zimbabwe
- o Moroni, Comores
- o Djibouti POP1, Djibouti
- o Djibouti POP2, Djibouti

Europe

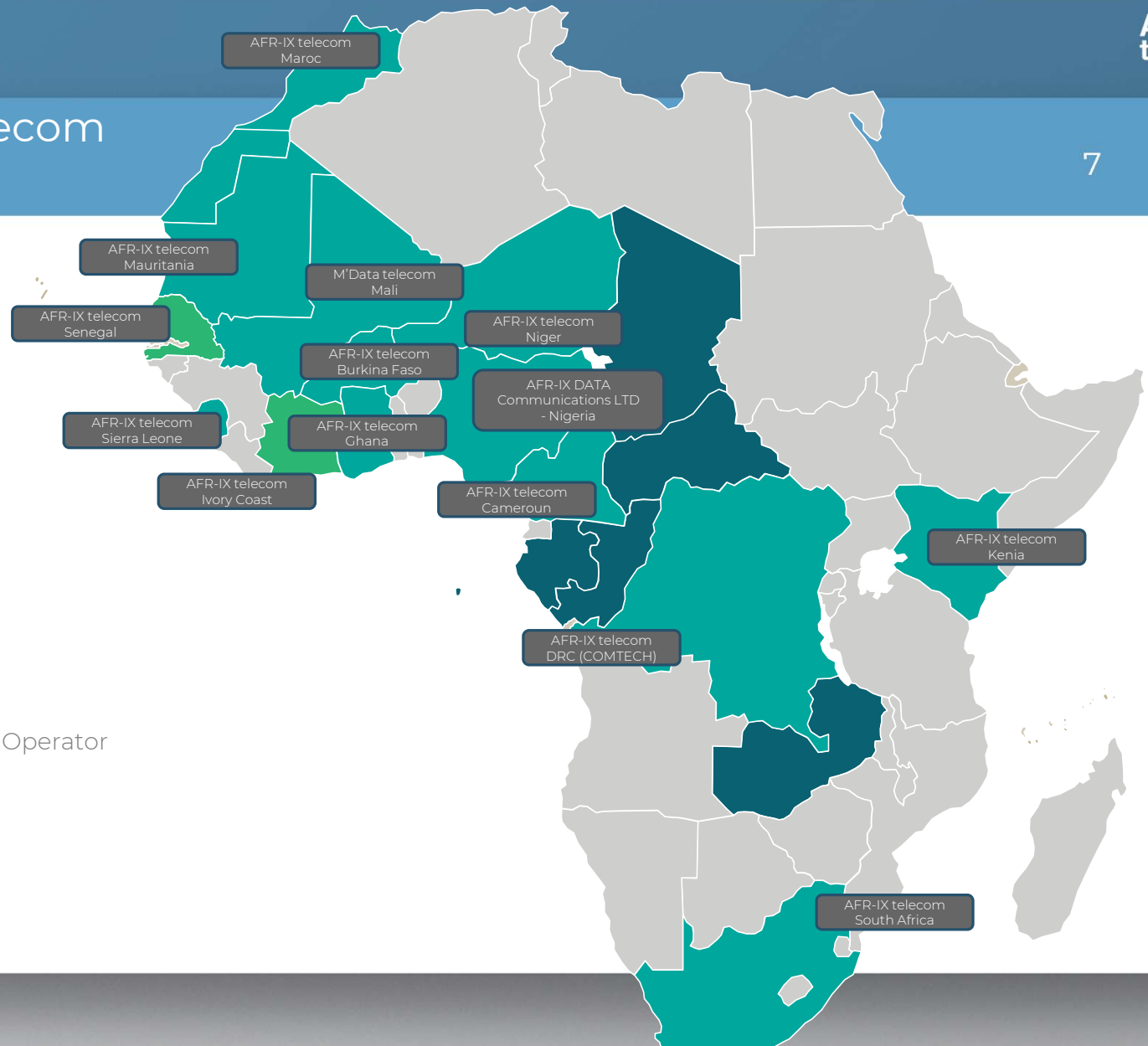
- o Equinix Lisbon, Portugal
- o FRS Frankfurt, Germany
- o Interxion Frankfurt, Germany
- o London THN, UK
- o London Global Switch, UK
- o Paris TH Voltaire, France

Americas

- o Fortaleza, Brazil
- o Ashburn Equinix DC2, USA

Subsidiaries and Telecom Licenses

- Local Subsidiary & License Operator
- Local Subsidiary
- AFR-IX future expansion



Subsea Infrastructure Investments



Barcelona Cable Landing Station

Barcelona Cable Landing Station is the **leading neutral digital port** in Barcelona, the interconnection hub of the Mediterranean.

Barcelona CLS provides open access cable landing service to **submarine cable operators** and a **neutral Data Center to Carriers, ISP's and Content Providers** with direct access to the main international fiber routes and local hubs.

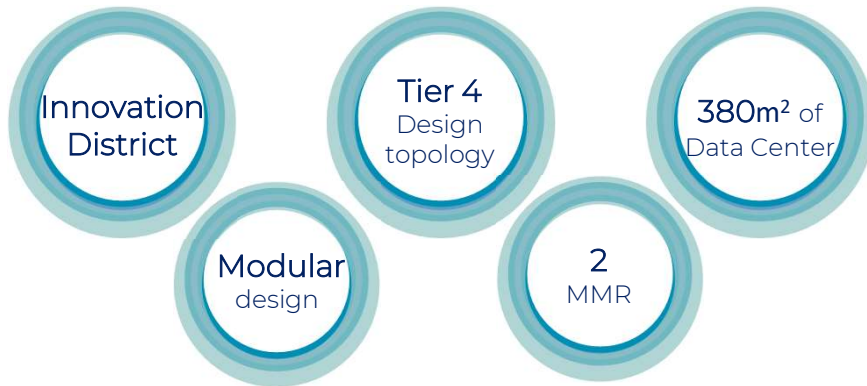


The building

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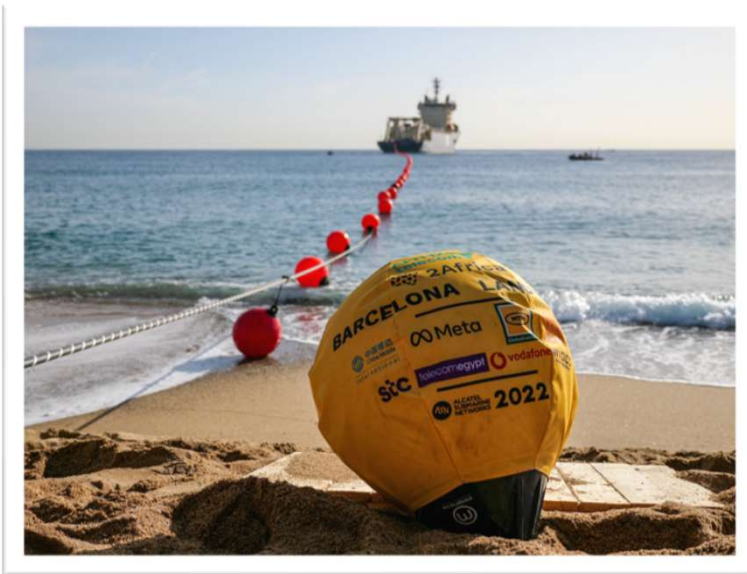
The building has 3 main areas:

- » Ground floor: for technical M&E areas and MMR 2.
- » First level: for IT halls: 1 Data Center, 8 separate Submarine Cable Rooms (SCR) and MMR 1.
- » Second level: for offices and NOC room.



House of 2Africa and Medloop cable

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- 2 Africa cable, landed on 24/10/2022
 - » 45,000km
 - » China Mobile, MTN, Meta, Orange, Saudi Telecom, Telecom Egypt, Vodafone, WIOCC



- Medloop cable, landed on 10/11/2022
 - » Sipartech

Subsea Infrastructure Investments



Medusa
Submarine Cable System

Medusa Submarine Cable System

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Medusa was born to be the new **Mediterranean Subsea Operator, neutral and Independent.**

Medusa, that has been designed as an **Open Access** submarine cable system, links the countries of the Mediterranean Sea and the European South Eastern Atlantic coast, with three main drivers:

- — North Africa with South Europe connectivity
- — Mediterranean with Atlantic connectivity
- — Mediterranean Islands to mainland connectivity.



Medusa Submarine Cable System

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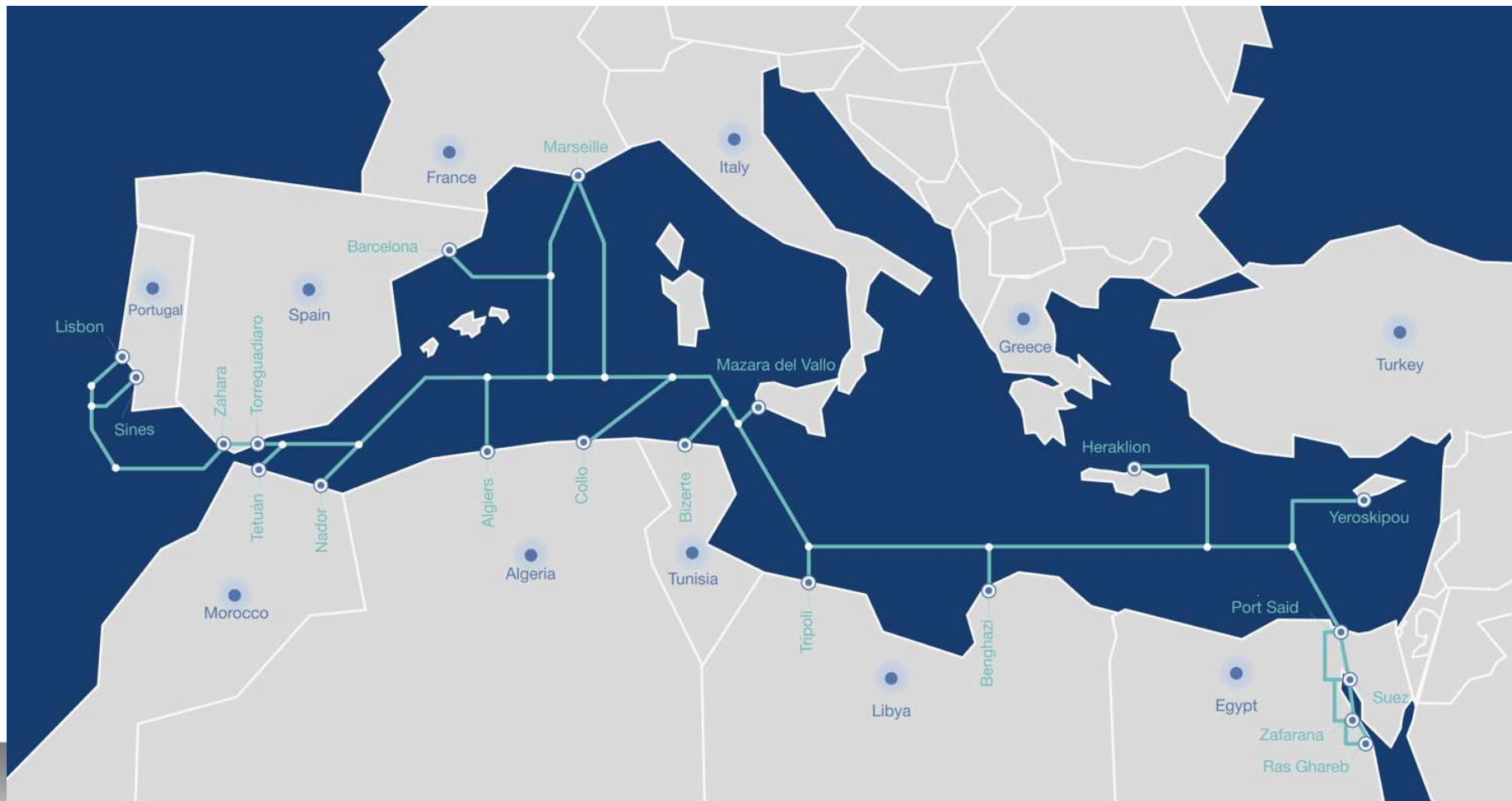
- o Organization:

- » Europe: headquartered in Ireland with local operational subsidiaries in Portugal, Spain, France, Italy, Greece and Cyprus as Holders of Licenses & PiPs + Owners of local Submarine assets.
- » North Africa: Landing party Agreements for Morocco, Algeria, Tunisia, Libya & Egypt.
- » NOC in Europe: Own staff for Operations and Maintenance.

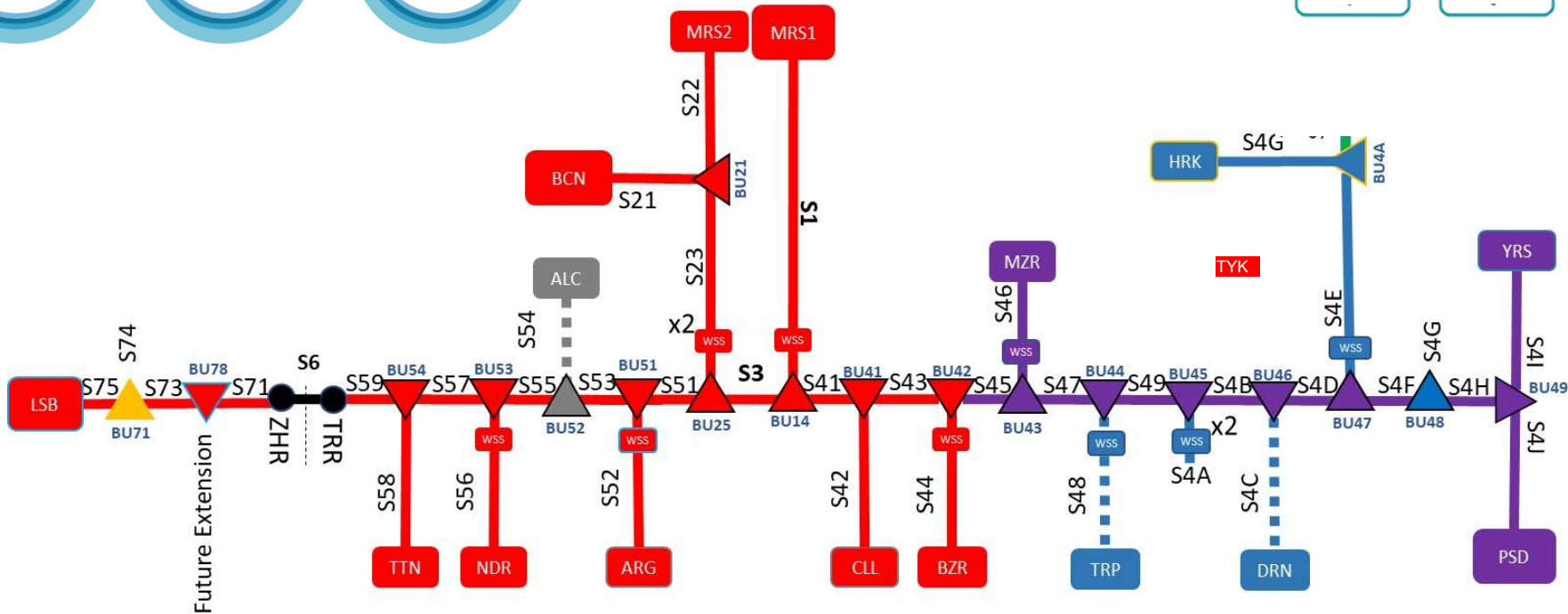
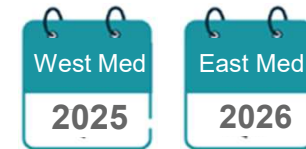
Medusa creates a new corridor from Asia to the Atlantic and enabling the regional development of the information Society and its actors.



The Landings and Connections



Medusa System Basic Configuration



Further network opportunities

Country	Population	Subsea cables	Internet Penetration	Potential Audience growth
Portugal	10,325,150	16	88%	1,239,018
Morocco	37,076,580	6	69%	11,493,740
Spain	47,415,750	29	93%	3,319,103
France	67,749,630	22	92%	5,419,970
Algeria	44,177,970	5	84%	7,068,475
Tunisia	12,262,950	5	68%	3,924,144
Italy	59,109,670	27	91%	5,319,870
Greece	10,641,220	11	79%	2,234,656
Libya	6,922,611	4	50%	3,461,305
Egypt	109,262,180	17	52%	52,445,846
Cyprus	1,244,190	11	100%	0



Medusa creates a new corridor from Asia to the Atlantic and enabling the regional development of the information Society and its actors.

News

BEI and EU support Medusa

EIB grant GÉANT project - €40M

- » 24 November 2022: Medusa is the main topic of the 7th Union for the Mediterranean Forum where Union for the Mediterranean Foreign Ministers meet
- » The European Commission signs an agreement with the European Investment Bank (EIB) for a EUR 40 million grant to support Medusa.
- » The EU grant will ensure direct high-speed connectivity, in particular between Europe's university and research network with those of North Africa.

The EU and EIB Global team up to upgrade digital connectivity to the Southern Neighbourhood

24 NOVEMBER 2022

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Today, in the margins of the Union for the Mediterranean (UfM) Regional Forum and the EU-Southern Neighbourhood Ministerial meeting, the European Commission signed an agreement with the European Investment Bank (EIB) for a €40 million EU grant to support a high-speed fibre-

optic connection under the Mediterranean as part of the "MEDUSA" project supported by the EU's Economic and Investment plan for the Southern Neighbourhood.

This EU grant contribution will increase and guarantee the connectivity via the submarine cable and direct terrestrial links, up to the national research and education centres of EU's Southern Neighbourhood region.

EIB Vice-President Ricardo Mourinho Félix said: "Digital transformation and high-speed digital connectivity is crucial in a post-pandemic world. The €40 million grant agreement signed today with the European Commission will improve connectivity between the EU and our North African Partners, bringing next generation access networks to the region while fostering socio-economic benefits. By working together, we can accelerate our efforts in promoting more integration in the region and encourage sustainable development and economic growth, providing more opportunities for all."

Commissioner for Neighbourhood and Enlargement Policy, the European Commission and the EIB are teaming up to implement the Economic and Investment Plan to boost digital connectivity in the Southern Neighbourhood. The 40 million MEDUSA project will directly connect, for the first time, the shores of the Mediterranean Sea and the Southern Neighbourhood. The long capacity, multi-country, future-proof optical fibre submarine cable, we will significantly upgrade the interconnection between Europe and the Southern Neighbourhood.



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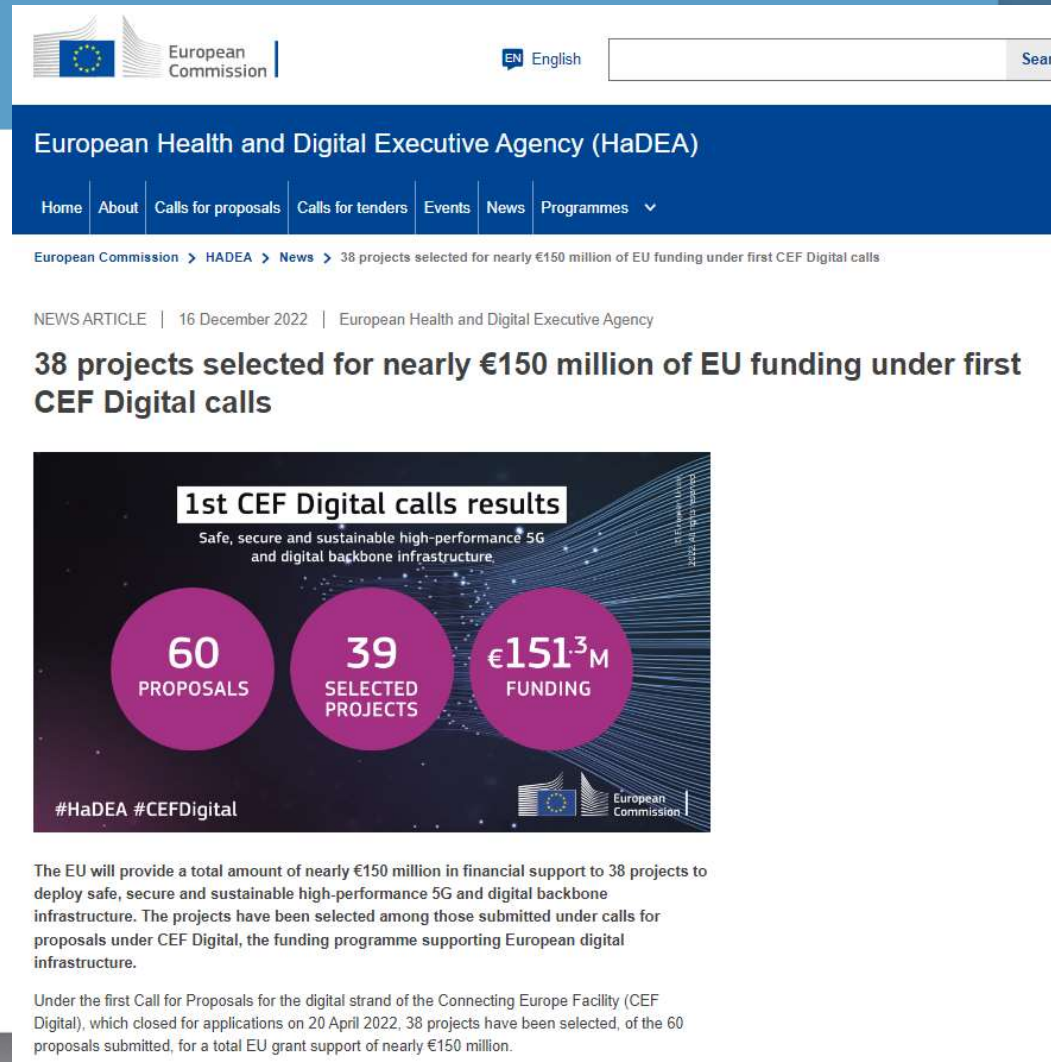
→ [Ricardo Mourinho Félix](#)

Ver en  YouTube

CEF Digitals Calls

EU Commission granted Medusa projects - 10M€.

- » 16 December 2022: The projects submitted by AFR-IX telecom to the CEF Digitals calls for proposals were selected and obtained €10M in grants.
- » The ATMED-DG project (€7.79M) consists of financing a pair of fibres between Lisbon, Zahara, Barcelona, Marseille and Mazara.



The screenshot shows a news article from the European Commission website. The article title is "38 projects selected for nearly €150 million of EU funding under first CEF Digital calls". The article is dated 16 December 2022. Below the title is a graphic titled "1st CEF Digital calls results" which displays the following statistics: 60 PROPOSALS, 39 SELECTED PROJECTS, and €151.3M FUNDING. The graphic also includes the text "Safe, secure and sustainable high-performance 5G and digital backbone infrastructure" and the hashtag "#HaDEA #CEFDigital". Below the graphic, the article text states: "The EU will provide a total amount of nearly €150 million in financial support to 38 projects to deploy safe, secure and sustainable high-performance 5G and digital backbone infrastructure. The projects have been selected among those submitted under calls for proposals under CEF Digital, the funding programme supporting European digital infrastructure. Under the first Call for Proposals for the digital strand of the Connecting Europe Facility (CEF Digital), which closed for applications on 20 April 2022, 38 projects have been selected, of the 60 proposals submitted, for a total EU grant support of nearly €150 million."

Landing party Agreements in North Africa

AFR-IX telecom signs landing party agreement with Telecom Egypt for Medusa submarine cable

News / March 2, 2022



Barcelona, 2 March 2022: [Telecom Egypt](#), Egypt's first integrated telecom operator and one of the largest subsea cables operators in the region, and [AFR-IX Telecom](#), a Barcelona-based infrastructure and telecom operator, signed a landing party agreement for the landing of the largest Mediterranean submarine cable system, Medusa, in Egypt. The agreement was signed during the **Mobile World Congress 2022** in Barcelona by the Managing Director and CEO of Telecom Egypt, Mr. Adel Hamed and Norman Albi, CEO of AFR-IX Telecom and Medusa.

“

The Managing Director and CEO of Telecom Egypt, Mr. Adel Hamed: We are pleased to introduce additional connectivity to Egypt through the Medusa submarine cable system, which will increase diversity in the Mediterranean basin. We believe this agreement will be the beginning of more upcoming collaborations with AFR-IX telecom

CEO of AFR-IX telecom & Medusa, Norman Albi: The agreement with Telecom Egypt is key to the project as Egypt is an essential transit route for submarine cables due to its privileged position between Europe, Asia, and Africa. It is a very valuable connection to link East to West and North to South. With Medusa, we will also contribute to diversifying traditional routes such as those that land in Alexandria or Suez

”

○ — Telecom Egypt for the landing at Port Said

Landing party Agreements in North Africa

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Orange Maroc welcomes Medusa



Orange Morocco concludes an agreement with Medusa Submarine Cable System to offer a secure interconnection solution between Europe and Morocco that is open and efficient to all interested operators.

True to its position as a player committed to supporting the Kingdom's digital transition, Orange Morocco has decided to invest in new submarine cable infrastructure in the Nador region to strengthen Morocco's attractiveness as a gateway for digital exchanges in Africa. This new infrastructure will also strengthen the country's digital sovereignty.

“

We are particularly pleased to host the Medusa cable within Orange Morocco's infrastructure in Nador as part of a strategic and ambitious project. By combining our submarine cable landing stations with our new urban infrastructure, we are strengthening Morocco's attractiveness as a digital gateway to Africa, while confirming Morocco's digital sovereignty,

- Hendrik Kasteel, CEO of Orange Morocco”

— Orange Morocco for the landing at Nador

Landing party Agreements in North Africa

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Orange Tunisia signs an agreement with Medusa Submarine Cable System to host the new submarine cable in Bizerte

News / May 11, 2023



Orange Tunisie for the landing at Bizerte

Orange Tunisia and Medusa Submarine Cable System, a neutral and independent submarine infrastructure operator in the Mediterranean, signed an agreement on Thursday 11 May to deploy a submarine cable linking Tunisia (Bizerte) to Europe, via France (Marseilles). This cable will be built in compliance with the latest international standards and rules and will benefit the socio-economic participants in Tunisia.

“ We are particularly pleased that Bizerte is hosting this new submarine cable, a strategic and ambitious project for Orange Tunisia which we are carrying out with our partner Medusa. It will eventually allow better accessibility to the Internet, making the digital world more inclusive and more focused on the fundamental needs of the Tunisian population and economy.

- Thierry Millet, CEO of Orange Tunisia

We are very proud to finalise this agreement with Orange Tunisia which will link the Medusa submarine cable to Bizerte and transform the northernmost region of the continent into a new gateway to Africa. Right from the start of this great project, we were committed to making Bizerte a major landing point, convinced that Orange Tunisia will develop this new infrastructure and promote its strategic location for the interconnection of Tunisia and beyond, from the continent. This new step demonstrates Medusa's commitment to lead and to encourage the long-term development of essential infrastructure in this region of the continent.

- Norman Albi, CEO of Medusa Submarine Cable System

”

Medusa CIF

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Alcatel Submarine Networks, Elettra Tlc, Medusa and Orange announce the beginning of the construction of Medusa Submarine Cable System in the Mediterranean Sea

News / July 3, 2023

— Medusa – Contract in Force



Medusa arrives to the Red Sea

25

Medusa submarine cable to connect to the Red Sea through Telecom Egypt

News / September 28, 2023



Medusa connects to the Red Sea through Telecom Egypt

Telecom Egypt, Egypt's first integrated telecom operator and one of the largest subsea cables operators in the region, and the Medusa Submarine Cable System, a neutral and independent Mediterranean submarine infrastructure operator, have signed an agreement to extend Medusa to the Red Sea.

The 8,760 km long submarine cable, which will land in the Egyptian city of Port Said by the end of 2025, will be connected to the Red Sea landing stations of Suez, Zafarana, and Ras Ghareb through Telecom Egypt's extensive terrestrial crossing network.

Medusa arrives to Libya

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Medusa and Libyan United International partner to land cable in Libya

News / November 8, 2023

Medusa lands in Benghazi and Tripoli





Q & A



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