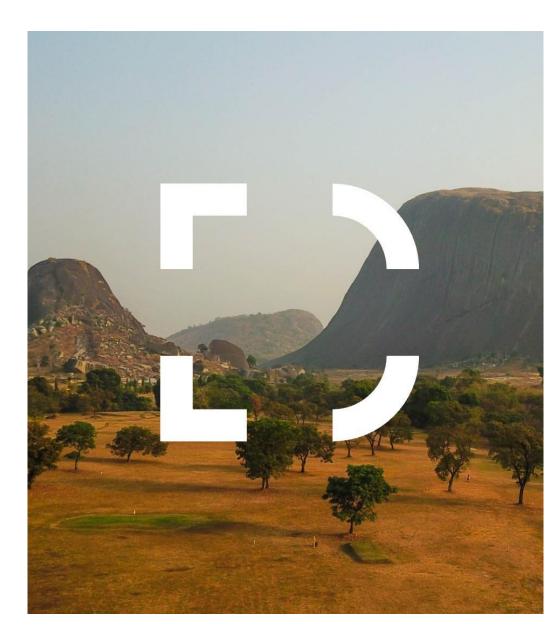


Scaling Data Centres

The Medallion Data Centre Journey and Insights for Future Growth NgPIF 2023



How do you create the #1 Peering and Connectivity Datacenter from a run down Supermarket Building





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Carriers and ISPs Present at Medallion

Medallion's LOS1 is the leading connectivity hub in Western Africa with 70+ Carriers and Internet Service Providers

10 Fibre Owners Connecting to LOS1	10 Nigerian Connectivity Providers	50 Nigerian Internet Service	e Providers (ISPs)	7 Regional African Networks	8 International Networks	2 Internet Exchanges	5 Mobile Network Operators	7 Subsea Cable Systems
MTN GLO1 Submarine Cables NatCom – SAT3 9Mobile ACE Submarine Phase3 Telecom	21st Century Airtel Nigeria Backbone Connectivity Network Broadbase Isocel Phase 3 Telecom	21st Century 9 Mobile Airtel Nigeria Backbone Connectivity Network Billyronks Global Brainshare CedarView	IMBL Telecom Interra Networks Information Connectivity Internet Solutions Nigeria IPXN Nigeria KKON Technologies Layer 3	Angola Cables AFR-IX Congo Telecom Hoop Telecoms Dolphine Telecom INQ.Digital (Vodacom) Web4Africa	AFR-IX Dimension Data MTN Global Connect Orange PCCW Global SkyVision Global TI Sparkle	Internet Exchange Point of Nigeria (IXPN) West African Internet Exchange	MTN Globacom Airtel 9Mobile Ntel	ACE: Dolphin Telecom; MTN; Orange Equiano Google
VDT Airtel Nigeria BroadBase MainOne AFL	Layer 3 NatCom Suburban Fiber VDT Communication	Choice2Mobile CobraNet Coloplus WS Content & Access	MAFAB Multidimension Tech NanoCom Natcom		WIOCC			GLO1: GLO1 Submarine Cables
		Cool-Link Comms CyberSpace Congo Telecom DotMac Tech. Dimension Data	yberSpace NGCOM Network songo Telecom Nmobile totMac Tech. Platinum Index					MainOne: MainOne Cables NCSCS: HMN Tech-Mainone
		Estream Network Fibre Edge Global Performance Index GLO1 Submarine Networks Hyperia	RouteLink SpectraNet SWIFT Network Teletronica Telnet					SAT-3/WACS: Orange; Angola Telecom; TI Sparkle; PCCW
		Hop Telecoms INQ.Digital (Vodacom) Main-One MTN	Timeless Network Trefoil Networks VDT Communication Winrok Nigeria					WACS: Angola Cables; Congo Telecom; MTN; Natcom; PCCW; Vodacom
Companies terminating fibre into the LOS1 facility.	Local telecommunication services	All ISPs with significant market LO	0	Networks with low latency connections to other Wes African countries.		The majority of the public peering traffic on the IXPN flows through LOS1.	All 4 National Mobile Network Operators are present at LOS1.	All 7 Subsea Cable Systems are directly connected to LOS1.

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How do you create the #1 Peering and Connectivity Datacenter from a run down Supermarket Building

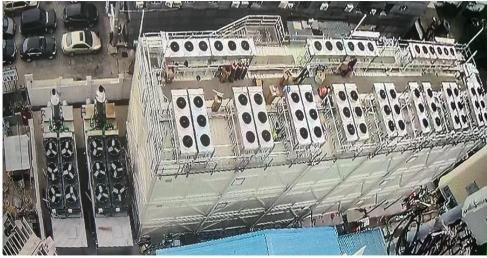




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Developed/Operational Facility-LOS 2 Data Center



Floor	IT Load	Racks	
Ground	200 kW	50	
First	400 kW	91	
Second	400 kW	91	
TOTAL	1 MW	232	

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Key Features

- 232 racks, 1MW IT Load datacenter next to LOS1 datacenter in Victoria Island, Lagos
- Expand the peering and connectivity capacity currently available in LOS1
- Less than 1km from the Hyperscale LOS3 datacenter under development
- Redundant fiber connection to LOS1, LOS3, LOS20, LOS21
- Tier-3+ DLR Global operational standard

Electrical

- Electrical IT system topology is in 2N configuration.
- Each Power room consists of 2 600 kW UPS system with VRLA batteries providing 5 min EOL at 1200 kW per side.
- Cooling technology is DX.
- Redundancy is N+1 in all rooms.
- 2x2650kVA generators.

Racks

- Rack density: Up to 8kW
- PDU Model: 230V
- Dual Power Supply

Some sample Medallion Awards including best connectivity DC Awards



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Key Factors for Success

Ideal Location

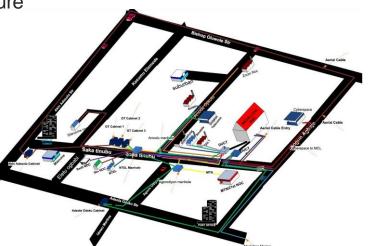
Functional Requirement

Innovation

Know when to Scale

Strategically located at the heart of Lagos ICT industry ecosystem

- 50m from MTN infrastructure
- 250m from 9Mobile
- 300m away from Airtel
- 400m away from Globalco
- 400m away from MTEL
- 300m from MAFAB
- Other key operators: 21st Century Cyberspace Hyperia Swift Network, etc



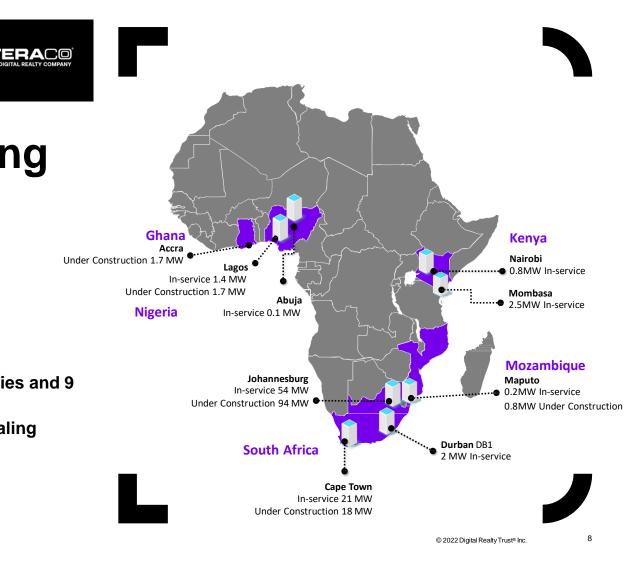
The African Meeting Place for Companies, Technologies and Data

icolo.io

Digital Realty is present in 5 African countries and 9 metropolitan areas, serving a total of over 400 million Africans and countries totaling approximately 35% of the continent's GDP

80 MW In service

- 115 MW Under construction
- Total Investment in Africa to date amounts to approx. 2b USD

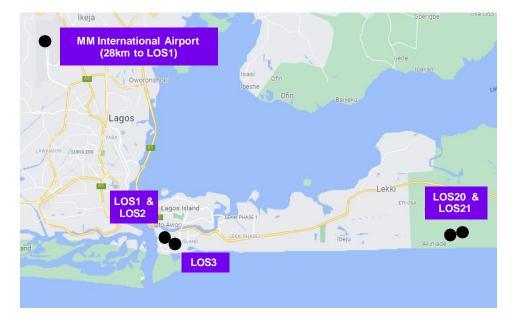


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- 2004: Medallion Communications established in 2004
- Carrier neutral data center services started in 2006.
- Nigeria's #1 peering and connectivity point.
- Acquired by a JV between Digital Realty and Pembani Remgro in 2021.
- Operates data centers in Lagos and Abuja
- Rebranding to Digital Realty by October 2023

City	DC	Campus	MW	Status
Lagos	LOS1	Victoria Island	0.3	Active
Lagos	LOS2	Victoria Island	1	Active
Lagos	LOS3	Victoria Island	30	Planning
Lagos	LOS20	Lekki	CLS ¹	Active
Lagos	LOS21	Lekki	1.7	RFS Q4 2024
Abuja	ABV1	Wuse2	0.1	Active

Medallion's LOS1 data center is the most highly-connected site in Nigeria with 70+ Carriers and Internet Service Providers.



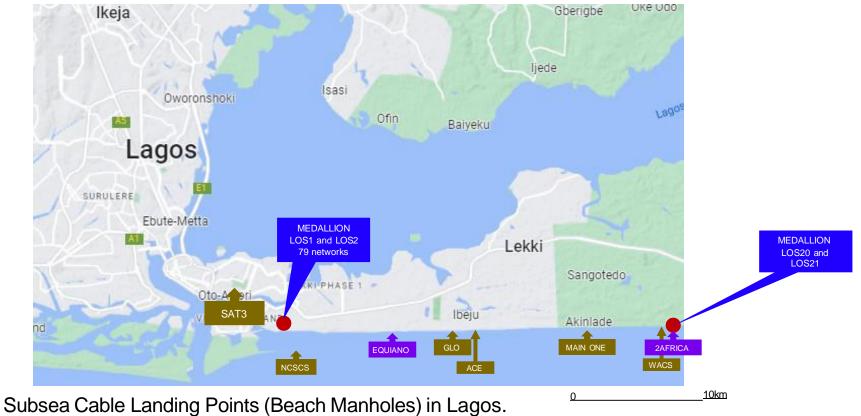
The new LOS2 will be adjacent to LOS1.

1. CLS = Cable Landing Station

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Project/Site under Design/Construction/Cx - LOS20 & LOS21 (Also called LKK1 & LKK2)

Location and Adjacency(s)



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Medallion's Metro Connect Service in Lagos

Notes:

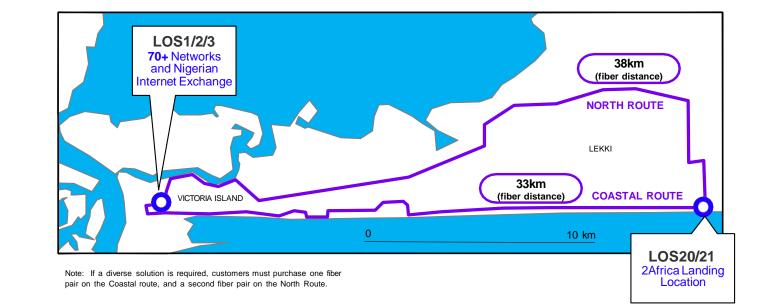
Diverse Routes

Dark Fiber

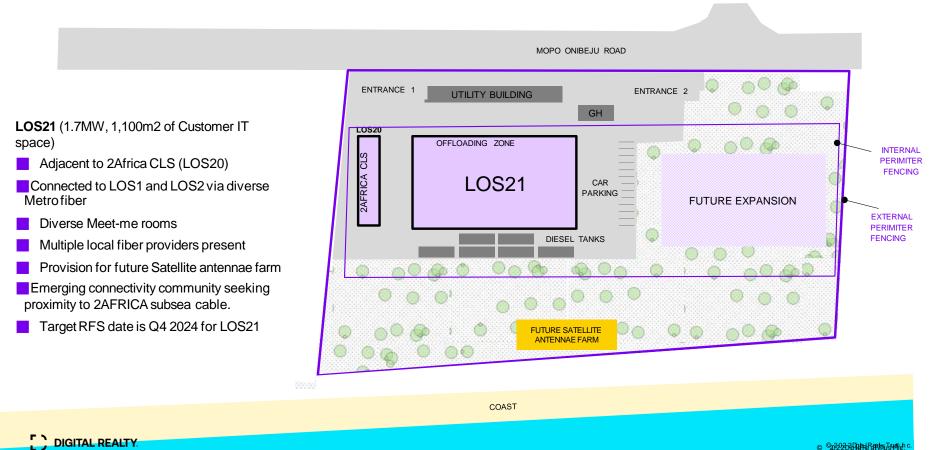
48 fiber pairs per route (easily scalable)

Fiber Distances:

- Coastal route: 33km
- North route: 38km
- kmz available on request



Project/Site under Design/Construction/Cx – LOS20 & LOS21 (Also called LKK1 & LKK2)



Project/Site under Design/Construction/Cx - LOS20 & LOS21 (Also called LKK1 & LKK2)



Project/Site under Design/Construction/Cx – LOS3

- Capacity for 30MW IT datacenter in Victoria Island
- Expand the peering and connectivity capacity currently available at LOS1/LOS2 (largest peering and connectivity hub in West Africa)
- Less than 1km from LOS1/LOS2 campus in Victoria Island
- ✤ land purchase completed
- Design ongoing
- ♦ RFS date depending on customer request. Current target is Q1 2025 for Phase1 capacity



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Thank you



