

## High-Speed Internet Connectivity Options

NgREN provides high-speed internet connectivity through several bandwidth subscription categories to meet the varying connectivity requirements of higher education and research institutions.

### 1. Available Connectivity Options

| Connectivity Option | Service Description                                                                            |
|---------------------|------------------------------------------------------------------------------------------------|
| 2 gbps              | Internet bandwidth, IP interconnectivity, network monitoring and security services (2 gbps).   |
| 1 gbps              | Internet bandwidth, IP interconnectivity, network monitoring and security services (1 gbps).   |
| STM-1 (155 Mbps)    | Internet bandwidth, IP interconnectivity, network monitoring and security services (155 Mbps). |
| 2 × DS3 (90 Mbps)   | Internet bandwidth, IP interconnectivity, network monitoring and security services (90 Mbps).  |
| DS3 (45 Mbps)       | Internet bandwidth, IP interconnectivity, network monitoring and security services (45 Mbps).  |

### 2. Scope of Connectivity Services

The NgREN Network provides a comprehensive internet access service, offering IP interconnectivity with other National Research and Education Networks (NRENs) through the West and Central African Research and Education Network (WACREN), as well as with commercial Internet Service Providers (ISPs) in Nigeria, including Airtel, MTN, Glo and 9mobile, and other networks across Africa and beyond.

The connectivity service includes:

- **Regional and Global Connectivity:** Interconnection with GÉANT and other Regional Research and Education Networks (RRENs) through WACREN Points of Presence (PoPs), providing access to the global research and education community.
- **Local Peering and Interconnection:** Exchange of NgREN traffic with major ISPs and content providers through the Internet Exchange Point of Nigeria (IXPN).
- **Improved Network Performance:** Local traffic exchange reduces network latency, optimises bandwidth utilisation, lowers connectivity costs and enhances overall network performance and resilience.
- **Network Monitoring and Security:** Network monitoring and security services to support reliable and secure institutional connectivity.
- **Subscription-Based Service:** Institutions access these services through an applicable bandwidth subscription plan.

### 3. Selection of Connectivity Option

Institutions are invited to review the five bandwidth subscription categories and select the option that best meets their bandwidth requirements and operational needs.

### Enquiries and Expression of Interest

Institutions interested in subscribing to any of the above connectivity options are kindly requested to send an expression of interest to [info@ngren.edu.ng](mailto:info@ngren.edu.ng) for further information and guidance on the subscription process.