Internet Society
Pulse

End of Year Review 2021

Two New Focus Areas:

Internet Centralization

Internet Resiliency

Internet Shutdowns Tracker:

49 Artificial Internet limitations recorded on the Pulse tracker

- **17** full national shutdowns
- **26** regional disruptions
- **6** service limitations

1,076 Total days of disruption

Disruptions tracked in:

Africa:
Burkina Faso
DR Congo
Niger
Nigeria
Senegal
South Sudan
Sudan
Tchad
Uganda
Zambia
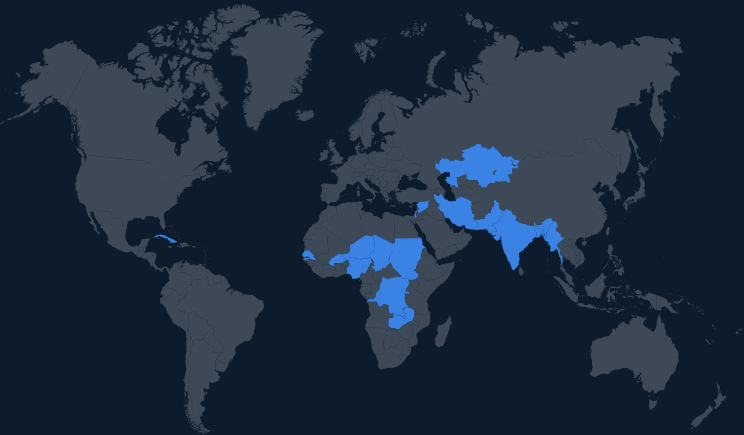
Asia-Pacific:
Bangladesh
India
Myanmar
Pakistan

Latin America and the Caribbean:
Cuba

Middle East:
Iran
Palestine
Syria

Europe:
Kazakhstan

Enabling Technologies

Tracking:

IPv6 | HTTPS | DNSSEC | HTTP3 | TLS1.3

Tracking of routing security metrics added in 2021:
- Adoption of route origin validation (globally)
- Route origin attestations as a percentage of IP space

12 Enabling Technology blogposts published

Internet Resilience

- Internet Society Internet Resiliency Index (IRI) published.
- Measuring Internet Resilience in Africa (MIRA) Project Overview published.

54 African countries tracked on:

- Overall resilience
- Infrastructure
- Performance
- Security
- Market readiness

35 Blog Posts | **12 Media Mentions**

21 New Data Partners in 2021