

Expanding Internet Connectivity in Liberia: Could Starlink (SpaceX) Help Bridge the Digital Divide in Liberia?

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I had the honor of attending and taking a couple courses at Carnegie Mellon University's Center of Executive Education in Technology Policy (CEETP) over the past few weeks. This opportunity was provided by the US Department of State through the US Embassy in Liberia, under the

A4AI and the ITU (International Telecommunication Union) found that it will cost the world an additional \$428 billion investment to achieve universal internet coverage by 2030. The report then projected that Liberia will need approximately \$432 million to increase coverage from 19% of the population today to 90% by 2030. This means, Liberia will have to invest roughly \$36 million every year to meet infrastructure needs, enable policy and regulatory frameworks, and ensure basic digital skills and local content.

Clearly, Liberia has made some strides-even though gradual-in bridging the digital divide. While all of the reports mentioned above are from credible sources, I strongly believe that the penetration percentage is higher than what has been reported, and that It could be higher if the necessary infrastructure were to be put in place. In fact, we have made way too much strides for the penetration rate to be that low. Despite my apprehension regarding the numbers reported, I believe and know that Liberia has hope in bridging its digital divide, and this is because of what I am about to say in the following paragraphs.

To begin, we have heard about opportunities made available by our partners and the business community. President Biden, for example, announced the creation of a national network in Liberia to increase connectivity and our national economic development goals. Prior to that, the administration of former President Barack Obama aided in the development of what is now known as the CSquared constructed citywide fiber optic network. That network has enhanced Liberian communications and supplied fiber connectivity to places outside of Monrovia

Recently, while in Washington D.C., I learned that Starlink plans to deploy in Liberia in 2024. Starlink is a satellite-based internet service provided by SpaceX, which aims to provide high-speed internet access to people all over the world, particularly in rural and remote areas. In developing countries, especially the likes of Liberia, many people lack access to reliable and fast internet connections due to numerous factors such as lack of infrastructure, prohibitive costs, and geographic barriers. Starlink's satellite internet service is expected to provide internet connectivity during natural disasters or emergencies, which can be particularly helpful in developing countries that are prone to such events. Additionally, Starlink's low Earth orbit satellites can offer low-latency connectivity, which can improve the performance of real-time applications such as video conferencing and telemedicine.

However, it should be noted that Starlink's internet service is still in its initial stages, and the full extent of its impact on improving internet connectivity in developing countries remains to be seen. Also, the service cost may be a barrier for some users in these countries. Nonetheless, Starlink's potential to provide high-speed internet access to underserved areas has the potential to drive economic growth, improve education and healthcare outcomes, and increase access to information and communication for people in developing countries.

I am confident that Starlink will help to bridge Liberia's digital divide. Starlink provides internet access utilizing satellite technologies, which provide greater coverage and can be implemented far quicker than fiber optic cables, which are more dependable but more expensive to set up. I am aware of the benefits and drawbacks of satellite connectivity. But given that it has been about 13 years since the deployment of the Africa Coast to Europe submarine optical fiber cable, and

Liberia's internet penetration has not expanded as quickly as we had intended (due to cost and lack of funding), Starlink's deployment might be the solution to bridging the digital divide.

No doubt, both satellite and fiber optic connectivity have their own advantages and disadvantages, and the choice between the two will depend on several varied factors, but satellite connectivity through Starlink guarantees a larger coverage sooner. Starlink has the potential to improve internet connectivity in Liberia and we must be ready when they begin to deploy or activate internet coverage in Liberia. A map provided by Starlink on their website, shows that Starlink will be available in Liberia in 2024. In fact, I can boast of being one of those who have pre-registered for service in 2024, after paying my \$9.00 USD on their website.

As we prepare for Starli