

Ukraine's All-Fiber Communication Network Upgrade



Overview

The government has approved a strategy for the development of the telecom sector in Ukraine until 2030. It envisages the implementation of 5G, the restoration of all mobile and fixed Internet networks, and the provision of Internet to 98% of Ukrainians with a speed of about 90+ . That's roughly 1,400 base stations, and does not include base stations located in Donetsk and Luhansk, areas that have been occupied by Russia since 2014. Since Russia's unprovoked invasion of Ukraine began in February 2022, CSIS (Center for Strategic and International Studies) estimates that. Vodafone Ukraine, Nokia, and Finnvera, the Finnish export credit agency, have signed a memorandum of understanding (MoU) to support the modernization and expansion of Ukraine's digital infrastructure. The Strategy. In 2024, some 4.2 million Ukrainians switched to using the xPON internet network, allowing them to stay connected during power outages. Ukraine estimates it will need \$4.



Article Content

Jun 30, 2025

Ukraine's Upgraded Fiber Drones Are Deadlier At Longer Ranges

Ukrainian fiber drone makers 3DTech explain how they developed their next-gen fiber drones and why they wind their own fiber optic cables

Nov 14, 2025

Fibre-optic drones reshape Ukraine's technological war

Fibre-optic drones have taken a more central role on the battlefields in Ukraine. Frontline soldiers describe the conflict as a war of drones and Ukraine has leveraged this technological edge

Apr 05, 2026

How internet and phone cables are changing warfare in Ukraine

Fibre optic cables – usually used to deliver broadband to UK homes – have become a key component of warfare in the last year, being attached to drones to protect their communications

Oct 13, 2025

Ukraine facing €4.38 billion post-war bill to restore

Ukraine estimates it will need \$4.67 billion (€4.38 billion) over 10 years to repair an overlooked but expensive casualty in the ongoing Russian

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Vodafone and Nokia to Boost Ukraine's Telecom

Vodafone Ukraine, Nokia, and Finnvera have partnered to invest in modernizing Ukraine's telecom infrastructure, aiming to expand resilient networks

Oct 20, 2025

Ukraine Sets Course for Next-Gen Connectivity: 5G,

Next Steps Finalize 5G trial regulations and invite operators to apply. Allocate budget and secure public-private partnerships for network rebuild.

Feb 24, 2026

A weapon entirely immune to jamming: How Ukraine is

The Ukrainian military once believed drones that communicate with their operators via fibre-optic links would not be necessary on the battlefield.

May 04, 2026

Ukraine Sets Course for Next-Gen Connectivity: 5G,

With this strategy, Ukraine cements its commitment to a fully digital, resilient communications ecosystem—an essential foundation for post-war

Aug 09, 2025

The keys to deploying fiber networks faster and cheaper

Four tactics can improve telecom companies' returns on fiber rollouts, helping to connect more of the millions of people who remain without high-speed

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Last year, 4.2M Ukrainians switch to fiber-optic internet

This year, restoration of affected communication networks and telecom development will remain the ministry's key priorities. Preparations are now

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Launch of 5G and 100% restoration of networks — the

The government has approved a strategy for the development of the telecom sector in Ukraine until 2030. It envisages the implementation of 5G, the

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Ukraine's Digital Resilience

When Ukrainian armed forces liberated Kyiv, Kharkiv, Mykolaiv, and parts of Kherson regions from Russian occupiers in 2022, telecom operators were

Jun 27, 2025

Rebuilding Ukraine's telecoms infrastructure amid war

The war has led to the destruction of more than 4,000 base stations across all operators, plus 60,000 kilometers of fiber optic lines, while 12.2 percent of households have lost access to

Apr 27, 2026

Ukraine Digital Development Country Profile

Mobile-cellular communications networks The technological infrastructure of Ukraine's mobile communication networks has demonstrated remarkable adaptation and development despite the

Sep 23, 2025

How Starlink Scrambled to Keep Ukraine Online

Elon Musk's intervention demonstrates how satellite internet could route around war or censorship far beyond Ukraine.

Sep 28, 2025

Ukraine's Fiber Optic Network Upgrade

Watch short videos about ukraine's fiber optic network upgrade from people around the world. Ukrain, Networkings, Ukraine And More...

Apr 23, 2026

Ukraine Telecom Conundrum: Cheap China or

Ukraine is tempted to contract China to rebuild its war-ravaged telephone network. That would be a mistake. Ukraine faces tough choices about

Mar 18, 2026

Ukraine Approves 2030 Digital Communications

The Cabinet of Ministers of Ukraine has approved a new electronic communications development strategy, planned through 2030. This document

Jul 03, 2025

The Battle for Control Over Ukraine's Internet

The battle for control over Ukraine's Internet shows how both sides view online access as a critical weapon in a 21st century war.

Jul 01, 2025

Fiber Optic Communication Ukraine Conflict: Resistance to Jamming

As reliance on digital communication increases across all branches of military operations – from naval vessels to infantry units – fiber optic networks will become increasingly vital for

May 06, 2026

Telecommunications in Ukraine

Telecommunications is one of the most modern, diverse and fast-growing sectors in the economy of Ukraine. Unlike the country's dominating export industries, telecommunications, as well as the

Apr 17, 2026

Finnvera to Provide €30M for Vodafone Ukraine Network

Finnvera, the Finnish state-owned financing agency, will invest €30 million to help modernize Vodafone Ukraine's telecom network. Ukraine's Ministry

Aug 24, 2025

Ukraine Communications 2024, CIA World Factbook

NOTE: The information regarding Ukraine on this page is re-published from the 2024 World Fact Book of the United States Central Intelligence Agency and other sources. No claims are made regarding the

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