Committed to connecting the world

Disaster Connectivity Maps

Feedback

Background

Access to communication networks and services is critical especially in times of disasters. With the increasing digital transformation of humanitarian operations, access to telecommunication networks is essential for both responders and the affected population.

Real-time information on the coverage and quality of connectivity help to identify communication gaps to support decision-making on where and when to deploy resources to restore communication services.
Disaster Connectivity Maps aims to publish a live map that can provide information on the status of network connectivity during times of disaster. The Disaster Connectivity Maps concept was first launched at the Global Forum on Emergency Telecommunications (GET-19), which took place in Mauritius, in March 2019. Disaster Connectivity Maps is now available as a production platform.

Disaster Connectivity Maps

Disaster Connectivity Maps is a mapping platform to help first responders determine the status of telecommunications network infrastructure, coverage, and performance before and after a disaster.

The information contained in Disaster Connectivity Maps (DCM) can be used to support decision-making by first responders about where telecommunication network services need to be restored.

Disaster Connectivity Maps is a joint initiative of the International Telecommunication Union (ITU) and the Emergency Telecommunications Cluster (ETC), and with the support of the Global System for Mobile Communications (GSMA). The Disaster Connectivity Maps platform is hosted by ITU.

What information is displayed on Disaster Connectivity Maps?

Disaster Connectivity Maps display the following types of information:

1. Network infrastructure: physical features such as terrestrial fibre optic links, microwave network links, submarine cables, mobile cell sites
2. Mobile network coverage: projected and/or actual mobile network coverage
3. Connectivity performance: metrics such as ping, latency, throughput (download/upload)

Information displayed in Disaster Connectivity Maps is gathered from different sources. Where data is available, network coverage and performance information will be dynamically updated in DCM using near real-time data.

The Disaster Connectivity Maps platform is hosted by ITU and developed as part of the ITU Broadband Maps and ICT-data mapping platform.

PARTNERS

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ITU plays an important role in using ICTs for disaster risk reduction and management, through the design of national emergency telecommunication plans, the setting up of early warning and monitoring systems and the provision of emergency telecommunications equipment when disasters strike.

For further inquiries contact us via email through eetmail@itu.int

Feedback

DCM activities

- Disater Connectivity Map Webinar, 2 February 2021 (recording, presentation)
- Disaster Connectivity Map Webinar, 20 July 2020
- ITU Broadband Maps & ICT-data mapping platform.

Quick Links

- Emergency Telecommunications Homepage
- Mandate
- National Emergency Telecommunications Plans
- Tampere Convention
- Multi-hazard early warning systems
- Partnering for Disaster Management
- ITU Disaster Response
- Disaster Connectivity Maps
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