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Registration information

Applied geospatial tools for school connectivity

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Training details

Modality: Face to Face
Location: Geneva, Switzerland
Dates: *19 May 2025 - 23 May 2025*
Training fees: $0.00
Language: English, English
Application deadline: 15 May 2025
Contact: ituacademy@itu.int

Training description

<p>As part of the project on capacity development to accelerate school connectivity, the Giga Learning Hub is organizing a face-to-face training through the ITU Academy. This hands-on training course equips participants with practical skills in QGIS and Python to address real-world school connectivity challenges.</p><p>Participants will master the sourcing and extraction of open data on ICT infrastructure and amenities, working in groups to solve connectivity problems using actual school connectivity datasets. Through guided exercises, participants will work in groups to analyse connectivity gaps, develop solutions, and present their findings to peers.</p><p>The training course combines technical skill-building with practical application, covering:</p>
Business planning for ICT infrastructure projects
Introduction to working with geospatial data, including data types and coordinate reference systems
Introduction to the QGIS software and plugins
Sourcing open data from Giga Maps, Open Street Maps, Ookla Speedtest, OpenCellID, NASA and more
Internet connectivity demand models using population

data
Advanced techniques including visibility analysis for point-to-point connectivity and fiber path analysis
Geospatial data processing and optimization techniques with Python
Data visualization techniques with KeplerGL
<p>By the end of the training, participants will have practical experience applying these tools to identify underserved areas, test connectivity scenarios, and develop evidence-based connectivity business plans.</p>

For more information about the training objectives, target population, entry requirements, methodology, evaluation and content, consult the page here.

How to apply

In order to register for the training, applicants should:

1. Create an ITU Academy account here
2. Apply for the course here
3. The selection of participants for the course will be made by the course coordinators, based on the course's entry requirements, selection criteria and available number of seats. If selected, you will receive a notification by email.

The ITU Academy is the International Telecommunication Union
leading platform for capacity development initiatives.

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