
[Applied geospatial tools for school connectivity](#)

Registration

Start date of registration

23 Jan 2025

-

End date of registration

21 Apr 2025

Event dates

Start date

19 May 2025

-

End date

23 May 2025

Location

Geneva
Switzerland

Global or multi-regional

Training topics

Training topics

Wireless and fixed broadband

Big data and statistics

Training type

Training modality

Face to Face

Languages

Languages

English

Coordinators

- Carla Licciardello
- Sebastien Peytrignet
- Guiomar Levi-Setti
- Carolina Anselmino

Event email contact

Event mail contact

ituacademy@itu.int

Price

\$0.00

* Financial support available

Event organizer(s)



Initiative



Description

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.

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.

The training course combines technical skill-building with practical application, covering:

- 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

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.

Financial support available

Registration information

[Document on registration information \(English\)](#)

Unless specified otherwise, all ITU Academy training courses are open to all interested professionals,

irrespective of their race, ethnicity, age, gender, religion, economic status and other diverse backgrounds. We strongly encourage registrations from female participants, and participants from developing countries. This includes least developed countries, small island developing states and landlocked developing countries.

Related documentation and links

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