WORLD TELECOMMUNICATION DEVELOPMENT CONFERENCE

ITU WTDC BAKU2025

17–28 November 2025
Baku, Azerbaijan

IPEC-25
Regional Economic Dialogue (RED)
Montevideo, Uruguay, 6-7 October 2025

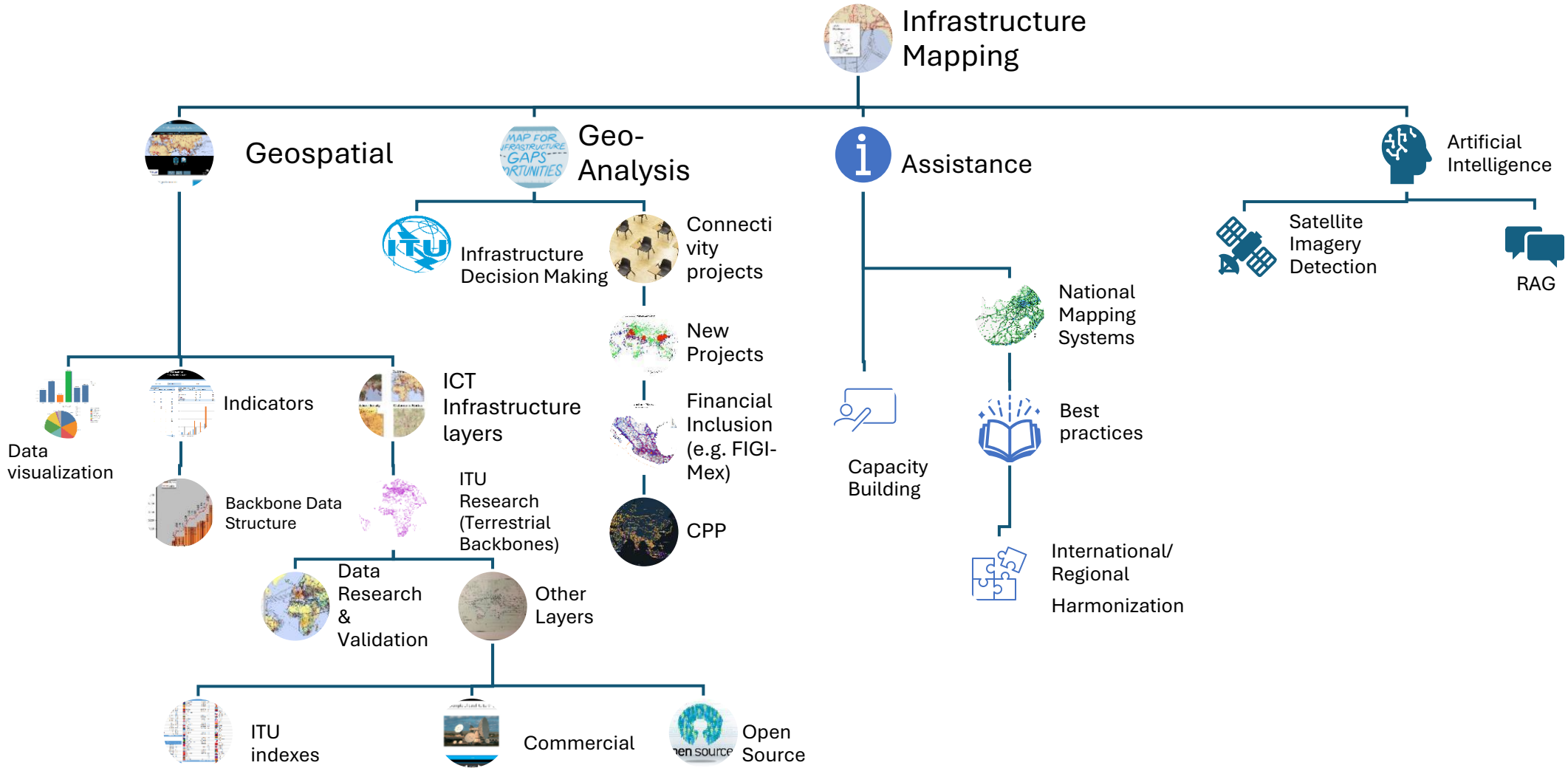
Supporting the development of future networks through innovative solutions

Vladimir Daigele
Telecommunication Development Bureau (BDT)

ITU Academy
Empowering minds

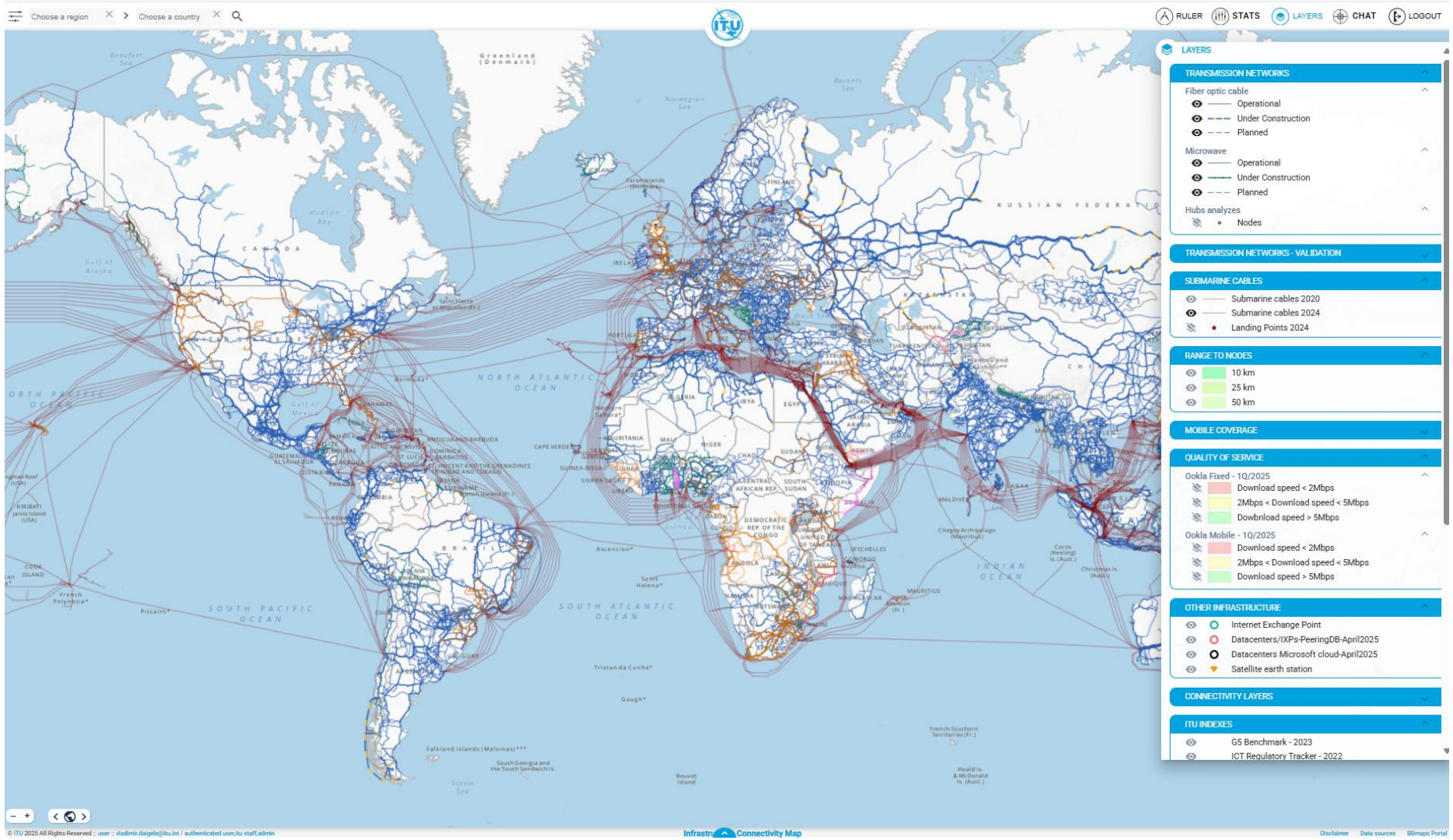
ITU

ICT Infrastructure Mapping 4 Development



Infrastructure and broadband mapping for informed decision-making :: for more information on publication and tools access https:bbmaps.itu.int/toolkit

Broadband Mapping (BBmap)

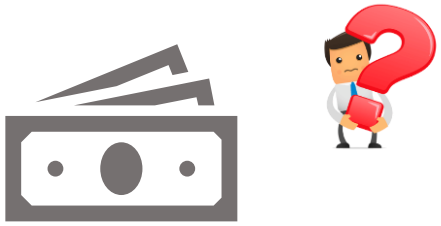


https://bbmaps.itu.int/bbmaps -> access with your ITU account for more tools and insights

https://bbmaps.itu.int/video

Infrastructure Project Planning

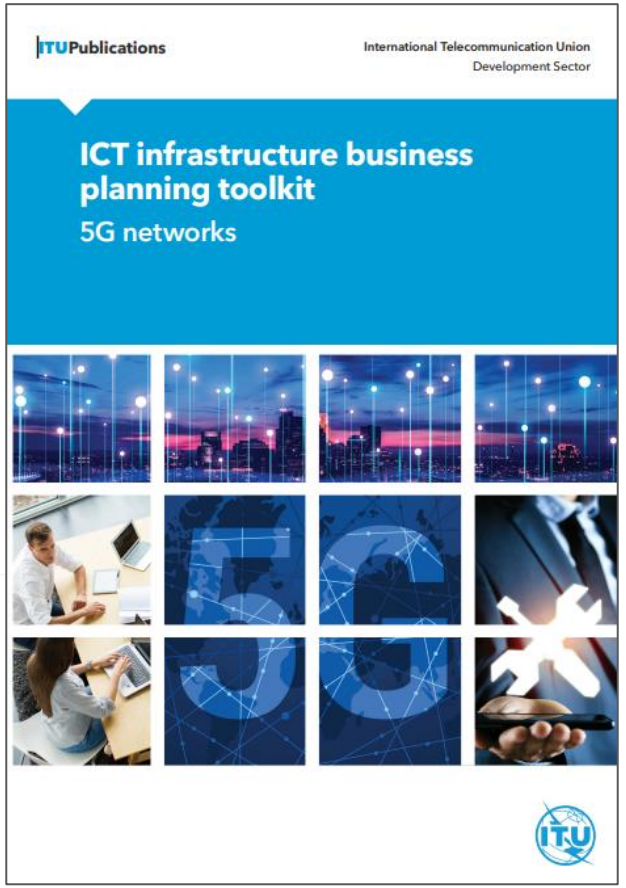
Mapping the infrastructure gaps



Elaborating a Business plan and funding

Defining priority infrastructure projects

ICT Infrastructure Business Planning Toolkit



A comprehensive evaluation of the economic attractiveness of the project:

Demand - *defines the market dimension of the proposed project*

Revenues - *estimates all expected revenues related with the infrastructure project*

Operational Expenditures (OPEX) – measures *all operating and maintenance expenses related to the network*

Investments – Capital Expenditures (CAPEX) - estimates *investments in all networks infrastructure required for service provision*

Cost of Capital (weighted average cost of capital WACC) – *considers opportunity cost of investing in the project*

Financing Mechanisms: analyses and proposes the best sources of funding according to the project nature

https://bbmaps.itu.int/ict-business-planning-toolkit

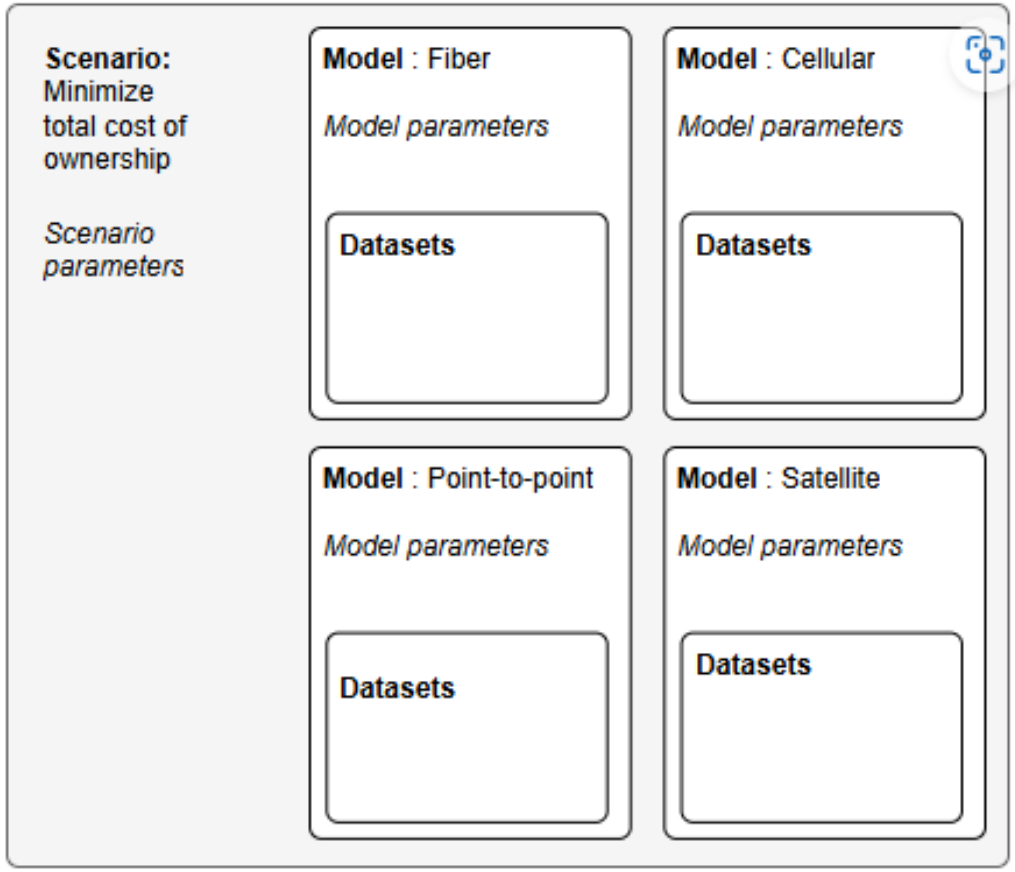
CPP – definition

The Connectivity Planning Platform (CPP) is an automated tool to quickly and efficiently assess various technology options like fiber, cellular networks, point-to-point microwave, and satellite.

CPP uses integrated data, dynamic modelling, and actionable insights for broadband and last-mile planning.

The platform evaluates these technologies options, form a design specifications and connectivity Scenarios

Website: https://cpp.itu.int



Full description: https://fns-division.github.io/inframapkit-documentation/inputdata/

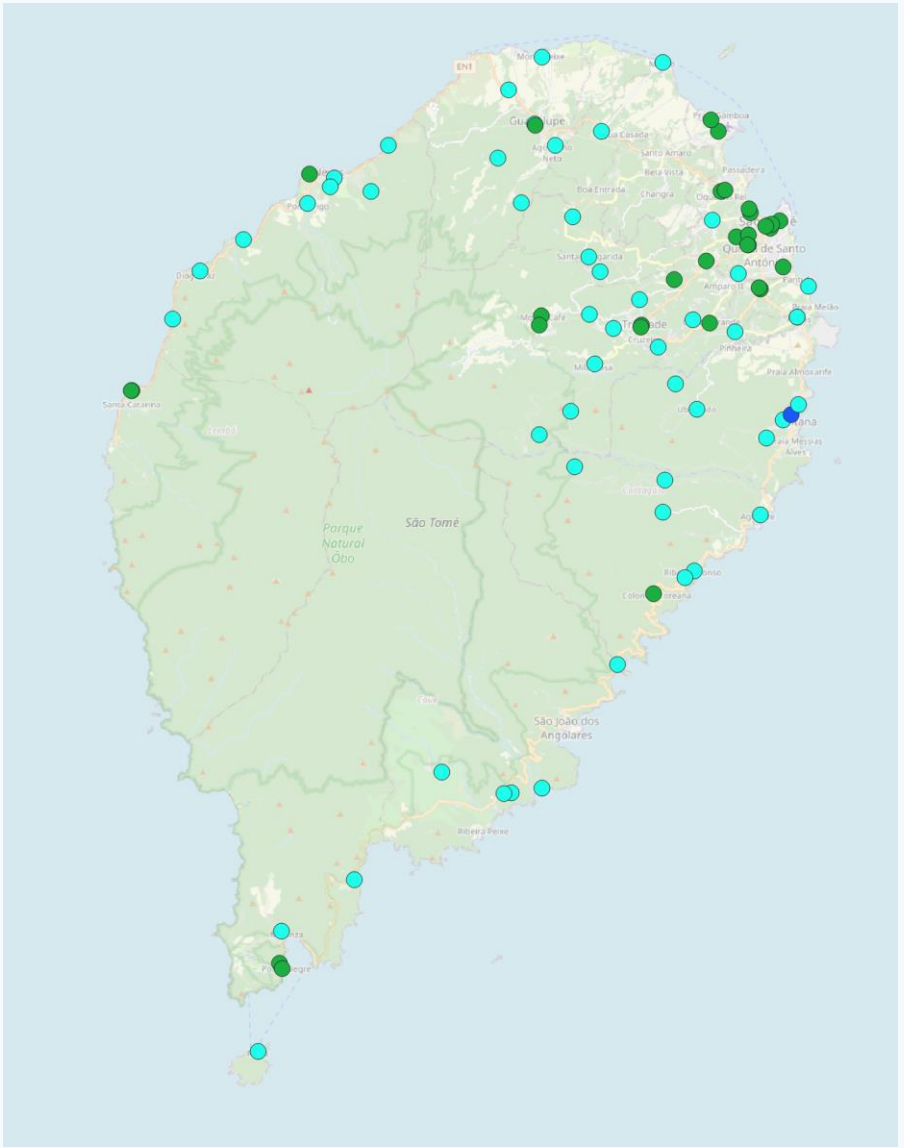
Case Study – Project 9STP24004– School Connectivity

Scenario-A (Lowest Cost Solution)

The lowest-cost approach to connecting all unconnected schools with a minimum speed of 20 Mbps. This highlights the most cost-effective solution for essential Internet access to schools.

Distribution of schools based on feasibility connectivity technology

- 1 school considered to connect via fiber, total cost per school $4.985
- 34 schools considered to connect via cellular, average total cost per school $3.366
- 58 schools considered to connect via satellite, average total cost per school $11.350
- Grand Total Cost $777.840



CPP Dashboard

Dashboard
Projects
All projects
Add new
Scenarios
Models
Datasets

The project is linked to the following models: *Fibre*, *Point-to-Point*. You can download the input and output data from the links at the bottom of the page.

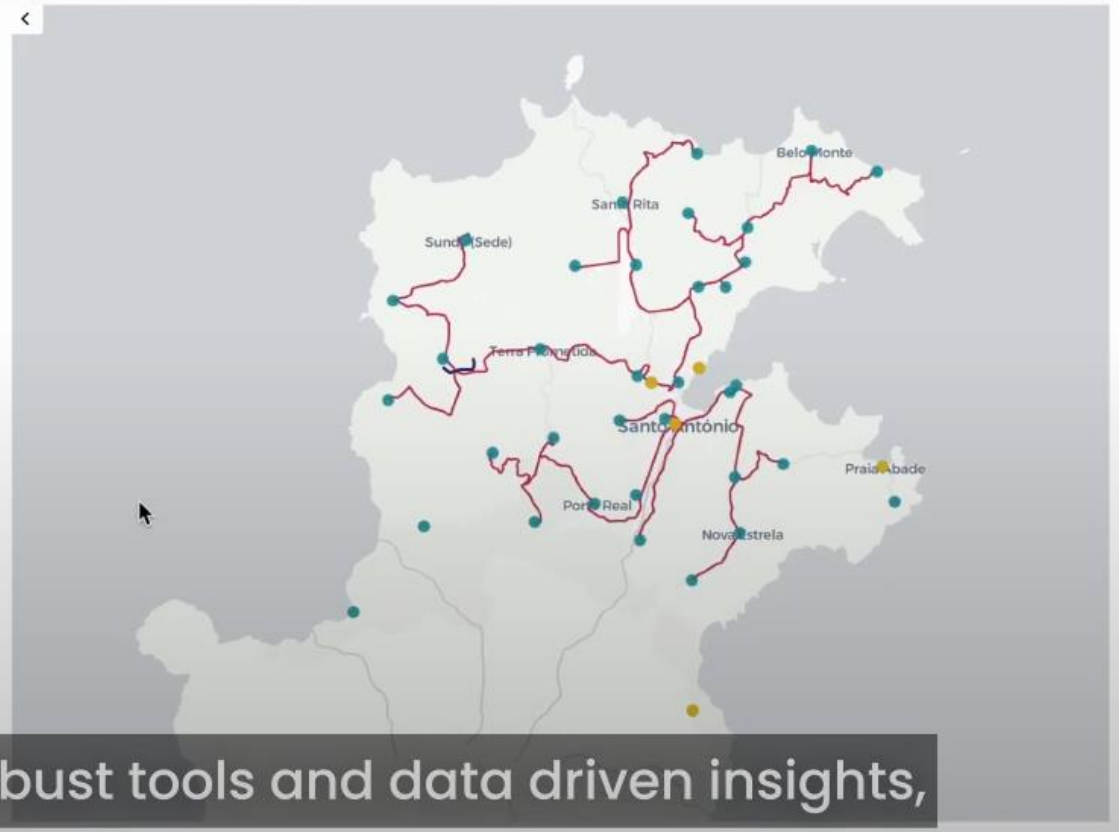
Status: [24b4v4h555] calculation is done, 1h 20min Edit and Re-run

The previous calculations

Model: Fibre model

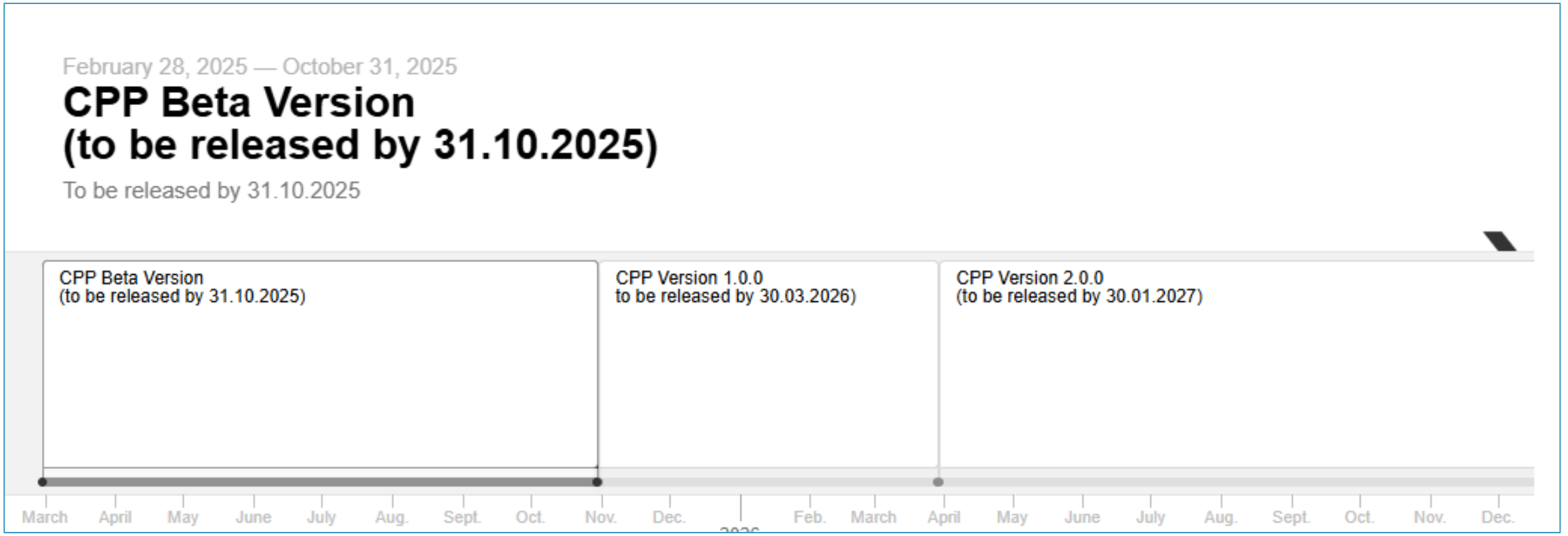
Input datasets

- Fibrepath
  lines
- Fibre nodes
  points
- Transition nodes
  points



With robust tools and data driven insights,

CPP – Release


February 28, 2025 — October 31, 2025
CPP Beta Version
(to be released by 31.10.2025)
To be released by 31.10.2025
CPP Beta Version
(to be released by 31.10.2025)
CPP Version 1.0.0
to be released by 30.03.2026)
CPP Version 2.0.0
(to be released by 30.01.2027)
March
April
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Thank you !

www.itu.int/go/emergingtech

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