

ITU Regional Development Forum for Europe (RDF-EUR)

Information and Communication Technologies for Attaining Sustainable Development Goals

Tuesday 26 May 2020 | 11:00 – 15:30 | Remote Meeting

<https://www.itu.int/en/ITU-D/Regional-Presence/Europe/Pages/Events/2020/RDF/Remote.aspx>

CONTRIBUTION BY [ORGANISATION / COUNTRY]

TITLE:

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Europe Regional Initiative:

- EUR1: Broadband infrastructure, broadcasting and spectrum management

Year(s) of implementation:

- 2020
 2021

Background

Georgian National Communications Commission is the regulatory authority that regulates electronic communications and broadcasting sectors of Georgia. Working on broadband development strategy made clear the importance of mapping. There were also other drivers that pushed us to develop this program:

- Telecom and telecom ready Infrastructure sharing project.
- Market analyses to defining SMP operators.
- Wholesale Access to the infrastructure.
- Various complaints of companies still related to wholesale access, last mail access and so on.

Starting from 2011 GNCC is collecting various data on telco infrastructure in the form of electronic forms. Provision of requested data is mandatory for companies by GNCC decision.

However, since this data was not in GIS format, we had problems on visualization on the map (due to not satisfactory data quality).

One of the problems was that we had limited possibility to identify telecommunication infrastructure that was outside settled area – cities and villages; even in the cities we encountered the following problems - one and the same city names and addresses were written in different formats.

The main problem - it was impossible to separate the infrastructure on a territorial basis and to compare geographical data.



In 2017-2019 EU Twining project shown that many developed countries had the same problem as Georgia, regarding addresses, this was one of the lessons learned in this project, thus we decided to skip working with addresses and started initially with geographical coordinates.

According to GNCC's recent resolution dated on April 23 operators should submit requested information on their infrastructure in GIS format.

Therefore, our system is working in the following manner:

Operators have to provide information on own infrastructure layers, then the provided data is validated and if everything is correct data is committed into GIS database.

Proposal

How we perceive future essence of our map.

Mainly the map will be divided into 4 categories.

- There will be the **Infrastructure mapping category** – that contains the existing telecom infrastructure data.
- **The service mapping category** – it is map with service layers. There will be data which contains information about existing services.
- **The Demand mapping category** – map layers, with data from potential subscribers; this indicates places where inhabitants do not have services but there is a demand for this.
- And **the investments mapping category** - confirmed information from the companies that they are planning to invest in infrastructure development in these areas for next one or two years.

The main idea during the mapping development process was to build such a map that will have the possibility to visualize unlimited objects.

In our project we took the following layers:

- **Base map** – containing lands, streets, buildings, rivers, lakes, etc...;
- **Lines** – containing backbones, middle miles and last miles;
- **Ducts and Telecom manholes;**
- **Telecommunication Towers** – Mobile Towers, Wi-Fi sectors and Radio-relay wireless lines;
- **Other** – any other layer, since mapping software will have a possibility to add any type of objects; no matter telco infrastructure or any other.

In order to develop proper tools to facilitate fast development of broadband infrastructure in Georgia, for GNCC it is very important to get expertise from experienced ITU experts as well as to share experiences of other colleagues. As we already mentioned best practice of our polish colleagues helped us to overcome problems that appeared in the beginning of the development process. Now, we do hope that experience shared in this working group will facilitate successful accomplishment of the next stages of our project. Moreover, based on draft law on telecom and telecom ready infrastructure sharing that was passed by the Parliament, GNCC will be granted the additional duty of Single Information Point, thus, we believe that ITU expertise working group will be a great help also in developing this platform and fulfilling new responsibility.

