The broadband challenges and the infrastructures sharing

ITU Webinar on "Infrastructure sharing best practices for affordable data services"

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The use of technological means to facilitate communication has become an integral part of modern societies around the world.

With the expansion of digital services, generated content and widespread use of the Internet, the number of telecommunications infrastructure companies has increased.

This leads to a new scenario characterized by a variety of actors, such as public service providers leasing their ducts, tower companies managing passive and active infrastructure sharing, municipalities providing dark fiber networks, state-owned providers of broadband or public-private partnerships.

The regulator is responsible for promoting and encouraging the collaborative implementation of very high-capacity networks and creating equitable conditions of competition for all participants in different sectors.

It is also known that in remote rural areas with low population density and challenging topography, the potential for new customers is relatively low, while the costs of deploying fixed networks are notably higher than in urban contexts and the main cost of deploying new fixed networks is determined by the costs of civil works.

One way to reduce deployment costs and promote the development of digital infrastructures is the shared use of existing infrastructures and the co-deployment of new infrastructures
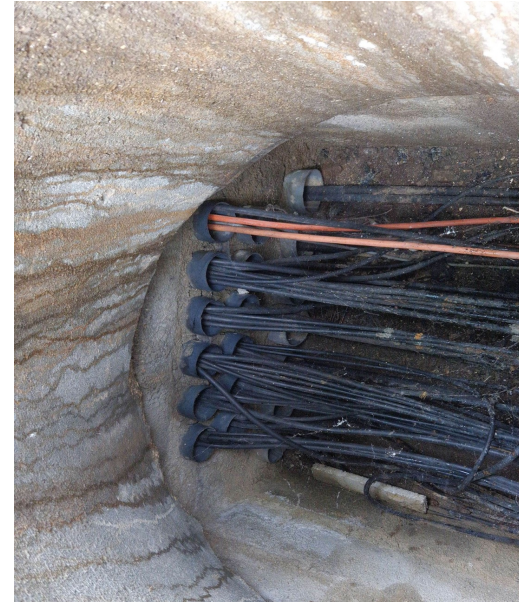
The portal SIIA - Suitable Infrastructure Information System is the solution to access and search information, on the part of all communications companies, about suitable infrastructure for the accommodation of their networks in accordance with the provision in Decree-Law: 123/2009, of May 21.

SIIA is an important contribution to the development of an innovative and competitive communication services ecosystem

Portal SIIA – Knowledge as a shared resource

SIIA – Suitable Infrastructures Information System

Infrastructure Sharing Benefits

- SIIA is the solution that allows those who need to install communications networks to meet those with infrastructure with the capacity to host them.

- This sharing allows lower costs and speeds up the deployment of communications networks, contributing to the development of the country, with benefit for all.

- To access SIIA, Entities must apply for accreditation, using an electronic form, and receive access credentials.

- In a few seconds, they can consult all the information available, register their georeferenced infrastructures, publish announcements of extensions and/or new constructions.
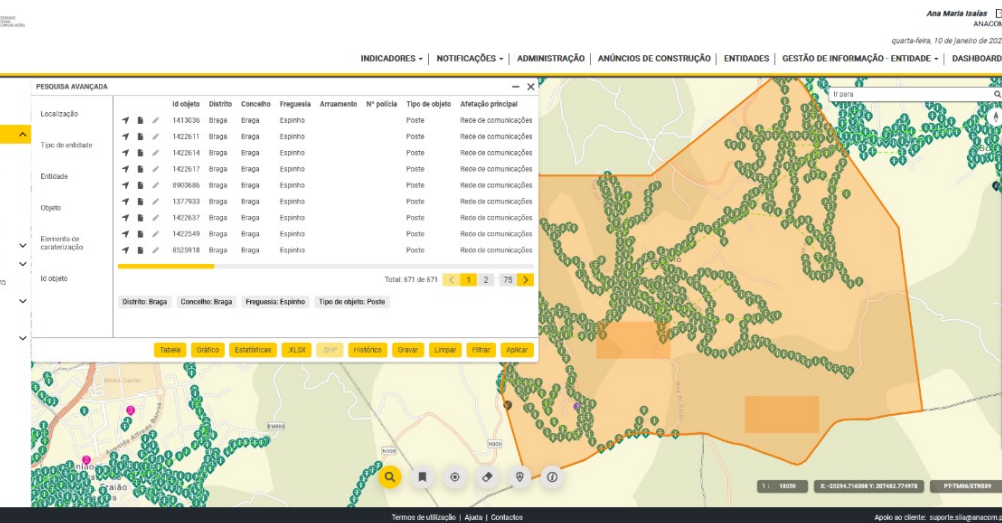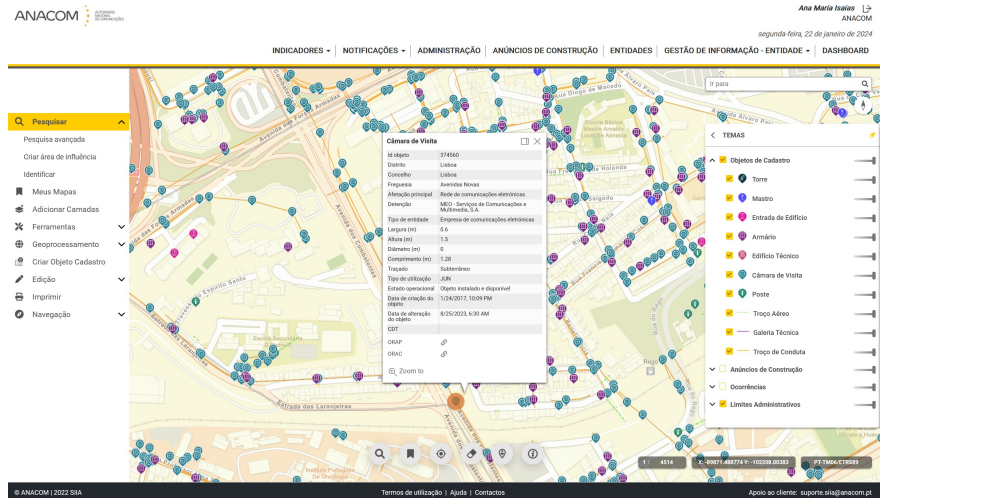

Multiuser infrastructure, with different cable types and operators, resources optimization.
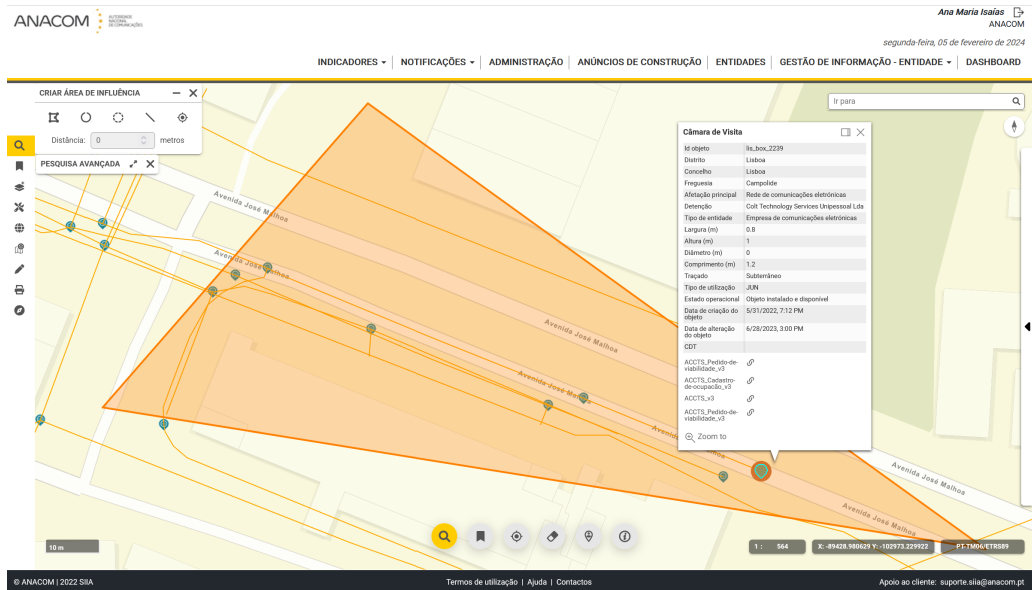
SIIA – Suitable Infrastructures Information System

Through the SIIA the companies/entities **have the obligation to make the following information available and therefore can be accessed:**
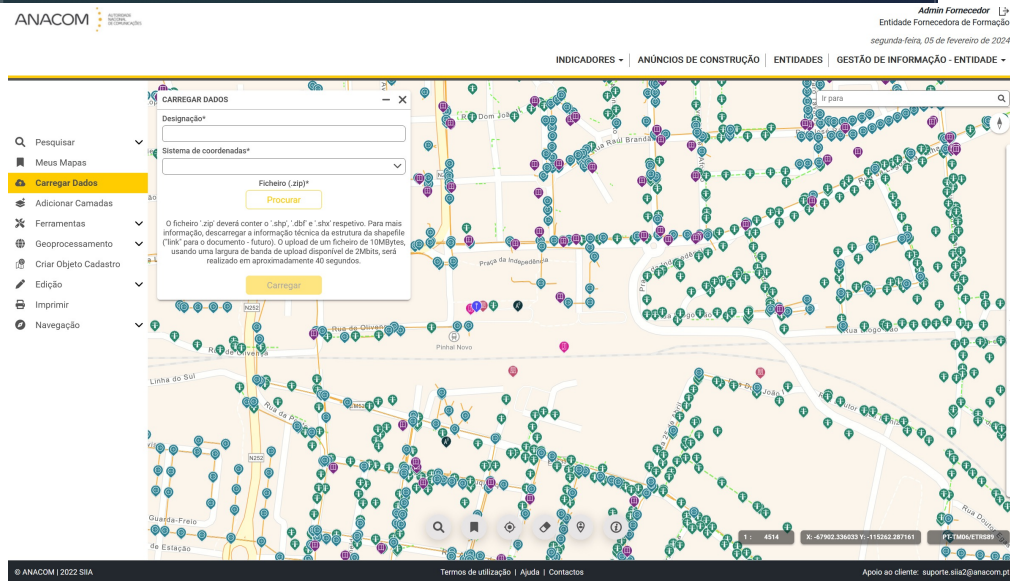
✓ Information on the procedures and conditions that apply to the access to use of each infrastructure;

✓ Publish announcements about the construction of new duct and/or other infrastructure;

✓ Information on the procedures and conditions to have the allocation of rights of way for the construction of infrastructure;

✓ Register containing complete and georeferenced information of all infrastructures for the accommodation of electronic communications networks.

Portal SIIA - Conclusions

- ✓ In SIIA, operators can easily access all relevant information about the available infrastructure through search and consultation. The result of which appears on a map with detailed and georeferenced information.

- ✓ It also allows to add information from different sources and thus be able to make their decisions regarding the sharing and use of certain infrastructures for the construction of their communications networks.

- ✓ All entities accredited in SIIA have the obligation to place their information in SIIA and to keep it permanently updated. The quality of the information is the entities responsibility.

- ✓ SIIA is a platform for search and consultation. Stakeholders in each infrastructure need, always, to speak to the owner of the same.

to take into account:

- ✓ Clear definition of the obligations for all SIP (SIIA) Entities participants

- ✓ Infrastructures definition - type of infrastructures and clear attributes (georeferencing should be mandatory)

- ✓ Clear rules to keep the information registered in the SIIA permanently updated

continuous improvement

- ✓ New use cases and functionalities based on User experience and Market

- ✓ Supervision to ensure the permanent availability of quality information at SIIA

- ✓ Maintain contact with all SIIA Entities Users through Workshops, meetings, training to clarify, help and learn with them
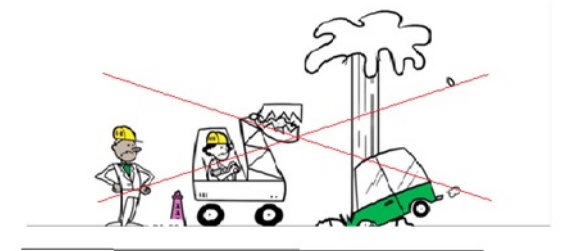
Continuous improvement, making SIIA the indispensable tool for electronic communications networks deployment

Portal SIIA – Benefits of the best practices

➢ All communications companies that need infrastructure to create their communications networks consult SIIA first:

- Reducing network deployment costs

- Reduced risk of damaging the infrastructure

- Sharing and reducing the investments necessary for its construction;

- Shorter service availability times (reduced time-to-market), costs and impacts on the public space resulting from its coordinated construction.

Thank you for your attention!

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