

Our expertise:

Mobile communications consulting – network expansion according to plan

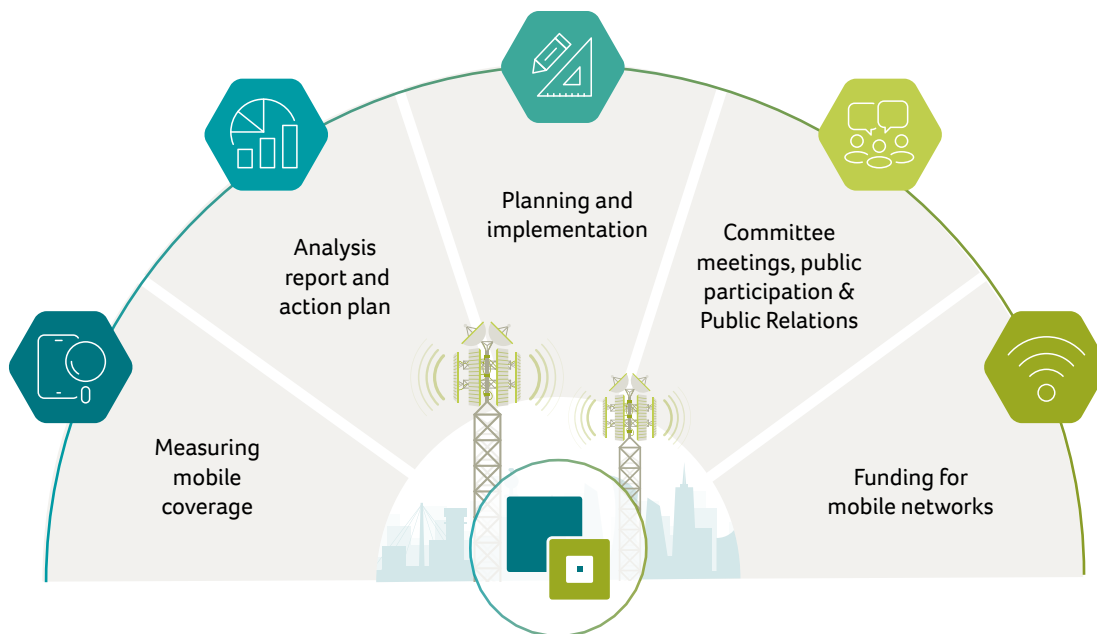
Coordination, cooperation and transparency throughout all stages of expansion

Whether for communication, entertainment, working from home or as a location factor in the competition for new companies: Mobile networks are an important part of the digitalisation of cities and regions, making them more attractive for residents and business. aconium GmbH supports and advises the public sector in the expansion of nationwide, high-performance mobile networks.



Mobile communications consulting

Establishing new mobile network sites involves many stakeholders: mobile communications operators, tower companies, public administration, licensing authorities, businesses and the general public – just to name a few. They all have their own interests that need to be taken into account during roll-out. Coordinated activities are needed to avoid disruptions in the roll-out process. Our experts identify existing obstacles to roll-out and find opportunities for acceleration. We coordinate the parties involved and provide support at all stages of the network roll-out.



Measuring mobile coverage

What gets measured gets managed. That is why aconium first determines the current status of mobile network coverage. To collect the data needed, we use various sources like the Funkloch-App or the monitoring provided by the Bundesnetz-agentur. Using simulations, we create a picture of the local mobile network coverage. The data will be visualised in the form of maps and thematic layers, and made available for download or viewing in other programmes, helping to identify areas with low connectivity.

Analysis report and action plan

The resulting maps can be used to provide an overview of so called White Spots and areas with low connectivity. The visualisation clusters critical coverage areas according to their potential for

- ▶ expansion initiated by the private sector;
- ▶ expansion according to coverage requirements;
- ▶ funded expansion.

In close consultation with clients, aconium GmbH identifies measures to accelerate network expansion and removes obstacles that could slow down the roll-out. All the data collected and processed is then summarised in an action plan.

Planning and implementation

aconium GmbH supports clients in planning and implementing the network expansion. Our experts coordinate all relevant stakeholders – from mobile network operators to the public sector – and support local actors:

- ▶ with the search for sites and the identification of suitable private and public properties;
- ▶ in application and approval processes;
- ▶ in identifying subsidised and private broadband infrastructure to establish mobile network sites.

Committee meetings, public participation & Public Relations

The construction and expansion of mobile communications networks requires clear and convincing communication to get all stakeholders equally enthusiastic about the project. To achieve this, aconium relies on close, transparent and informative dialogues with the public.

Should unexpected tensions arise during roll-out, we moderate and mediate in committees. We inform the general public with our experience in public relations.

Funding for mobile networks

We advise potential funding recipients and local authorities when applying for funding. This is done in close consultation with all stakeholders – technical planning of the infrastructure needed included.



A lot to keep in mind? No problem with us as your consultant!

Building a stable mobile network requires expertise in all phases. In addition, the market is fast-moving and complex. The relevant players need to be informed about technologies and trends in mobile communications. This includes

- ▶ **5G and 6G expansion and the associated network densification for high-performance coverage;**
- ▶ **technical innovations such as Open RAN;**
- ▶ **the development of Small Cells in municipalities;**
- ▶ **5G campus networks;**
- ▶ **the resilience of mobile networks.**

With us by your side, you do not need to worry about any of the above. In addition to providing support during all expansion phases, our experts prepare studies, analyses, expert opinions and position papers on technical, economic, legal and regulatory issues. This enables us to provide our clients with assessments and analyses of opportunities and challenges associated with mobile network expansion.



For more information about our services in the field of Mobile communications consulting, scan the QR code or visit our website at:

<https://aconium.eu/infrastrukturen/mobilfunk/>

About aconium GmbH

As an experienced partner, aconium GmbH supports the public sector in the development and implementation of projects in the areas of digitalisation, energy, mobility, health and education.

Together with municipalities, districts and companies, we develop the infrastructure for the future. Our goal is to strengthen the regions: With partners in Germany and across Europe we are working on future projects such as the digitalisation of rural areas. We develop smart mobility concepts for local and long-distance transport and intelligent strategies to promote energy transition.

In doing so, we support our partners with around 500 experts from the fields of administration, IT, law, business, education, communication, urban/regional development and geoinformation systems with customised solutions for complex tasks.

Proximity to our customers is important to us: We are present at eight locations in Germany as well as in Brussels, Kyiv and Tirana.

aconium GmbH is certified according to the internationally recognised ISO 9001 standard for quality management and ISO 27001 for information security management based on basic IT protection.



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