Government-driven ultra-broadband initiative for a competitive nation

Use case

Provide universal, affordable and competitive broadband connectivity to help your citizens thrive in a hyper-connected global economy.

A universal, affordable and competitive ultra-broadband infrastructure helps you bridge the digital divide and create a foundation for greater competitiveness. It brings broad social and economic benefits to your country and your community. And it creates opportunities for your people, cities and businesses to unleash their skills by enriching the way they innovate, do business and share knowledge.

This use case describes how Nokia can help you turn your national or regional broadband plan into reality for your citizens and businesses.
Challenges

Ultra-broadband has become essential to every society—a foundation for broad social and economic benefits that enables business and regional competitiveness. To address this challenge, national broadband plans, financing tools, public policies and initiatives have grown in numbers with more than 140 countries that have developed plans to promote broadband.

Yet, only a bit more than 50 percent of the world population has access to broadband connectivity, with lots of disparity between countries and even between rural and urban areas within countries.

Figure 1. Broadband household penetration by region (2016, ITU estimates)

Despite notable progress with a growing understanding of the issues, there is still a long way to go to turn these initiatives into tangible broadband networks that boost the development of a country or a region. The main remaining challenges are:

- **Attract long term investors**: The lack of a viable business case prevents private market players to invest in such infrastructures. Setting the conditions to attract private sector investments is a priority to be successful. Governments must adopt measures such as infrastructure sharing, creation of wholesale services market, public-private partnerships (PPPs) and incentives for long-term financing that favor emergence of alternative economic models.

- **Develop a favorable regulatory framework**: A stable and appropriate regulatory framework is a second condition to attract long-term investors. Multiple models ranging from full infrastructure competition to active and passive wholesales are possible, and the telecom regulation authority must ensure a consistent framework aligned with the country’s situation and government broadband plan objectives.

- **Build a sustainable infrastructure**: Building a universal, affordable ultra-broadband network that meets the business case and sustainable profitability expected by all stakeholders is far from being straight-forward. It often means being able to leverage a broad mix of technologies, combined with very careful network planning and very tight project management, to deliver the best performance at the right Total Cost of Ownership (TCO).
How we help you

Recognizing both the complexity of such projects and the fact that it is not the government’s role to run and operate these broadband networks, Nokia proposes to government an end-to-end approach to simplify deployment. Our plan includes:

• Early engagement with government and regulators: Leveraging our expertise gained from our presence in many flagship government-driven broadband initiatives such as those in Australia, New Zealand and Mexico, as well as work with our Nokia Bell Labs consulting team, we can help governments find ways to break down traditional barriers and define a concrete path forward to unlock the growth potential of technologies.

• Working with long-term investors and consortia: We can identify and work with key stakeholders to bring together all parties involved in such projects, from private investors willing to invest in long-term infrastructure to wholesale service providers, network operators, passive equipment providers all the way to construction and building if needed. Government can rely on a turnkey offer that simplifies the deployment of their broadband plan and gives them confidence in the ability to meet plan KPIs.

• Offering true end-to-end, best-of-breed network technologies and services: Nokia is a strong market leader in ultra-broadband fixed and wireless access, IP/optical networking and operations support systems, and so we can select the technologies offering the best TCO/performance/investment protection ratio. We can offer a one-stop shop, tightly optimized end-to-end network to governments and consortia. To further simplify the deployment and operation of the network, we provide professional services ranging from program management to managed services.

Why our approach is different

• We can offer an end-to-end network solution including services, allowing a one-stop shop solution to consortia and wholesale operators.

• As a technology and market leader in fixed and wireless broadband access we can leverage the best of both worlds to optimize performance.

• We have experience working with investors and consortia in diverse configurations (JV, SPV), to provide reliable, financially sustainable turnkey solutions to governments.
Figure 2. Will need a caption please

How you benefit

• Enhance your country/region competitiveness by connecting underserved areas to the digital society and economy.
• Retain and attract new citizens and businesses in your territory.
• Develop and deploy new digital services (smart, safe and sustainable cities and territories) that will further enhance the attractiveness of your country/region.
• Fulfill Digital Agenda requirements
Let us help you

Nokia is committed to help governments deliver ultra-broadband access to all, with more sustainable, affordable and accessible communications. Its mission is to invent and deliver trusted networks to unleash the value, competitiveness and attractiveness of your nation, your region and your cities.

Contact us to learn how our solutions for a government broadband plan can help you increase your competitiveness.


About Nokia

We create the technology to connect the world. Powered by the research and innovation of Nokia Bell Labs, we serve communications service providers, governments, large enterprises and consumers, with the industry’s most complete, end-to-end portfolio of products, services and licensing.

From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in virtual reality and digital health, we are shaping the future of technology to transform the human experience.

Connect with our sales team

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