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WHITE PAPER

Telco Service Feasibility Decisions without Stepping Out

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Abstract

As the global economy continues to come to terms with the long-lasting impact of the COVID-19 outbreak, "social distancing" and "work from home" have become the need of the moment. During the lockdown, remote working, video conferencing, and technology have quickly emerged as the key enablers for business operations. And amidst all this, the government, businesses & society acknowledges that a strong telecommunications network during this extraordinary situation is very important.

Though all the telecom companies are putting the best possible efforts to provide uninterrupted services during the COVID-19 outbreak, most of them are facing challenges completing tasks without actually visiting sites and working from home/offices. Communications Service Providers(CSPs) have no option besides asking their field workers and engineers to opt for field surveys, which will ultimately make them more vulnerable to the virus.

In these tough situations, where even one infected employee can shut down any business, a solution that can minimize the need for the field surveys/site visits without affecting the continuity of the business is the need of the hour.

In this document, we will have a detailed discussion on how SmartFeasibility(Application of NetworkAccess) is a better solution for the Telcos to perform feasibility checks efficiently without stepping out of the home and offices during the critical situation. This will not only save time, money, and efforts but will ensure that every employee connected to business stays safe and sound. We will even help you understand the insights of the product SmartFeisibility. But let us start with the grounds first.

What is Feasibility?

Before providing connectivity to a customer, the most prominent activity performed by the telecom operators is the feasibility check. This is required to make sure that the network services provided by the operator are feasible in all criteria's to reach the client's location. Many telecom companies have to spend a lot of time, money and efforts performing feasibility activities(Majorly including site visits, capacity checks and Capex/Opex calculation's) if they do things using the traditional way, but with SmartFeasibility, things are drastically changed for better accuracy and faster output, end to end automation.

Why is SmartFeasibility Solution Need of the Hour?

SmartFeasibility helps the network operators conduct feasibility in an efficient way in terms of time, money and efforts. It ensures that the field workforce and engineers working with the CSPs need not step out of the offices to perform feasibility checks. It allows Telco users

to manage product-centric or technology-centric feasibility requests and generate an instant quote. The application responds to feasibility requests from the upstream system and, based on the business rule and location intelligence, provides a cost-effective feasibility response.
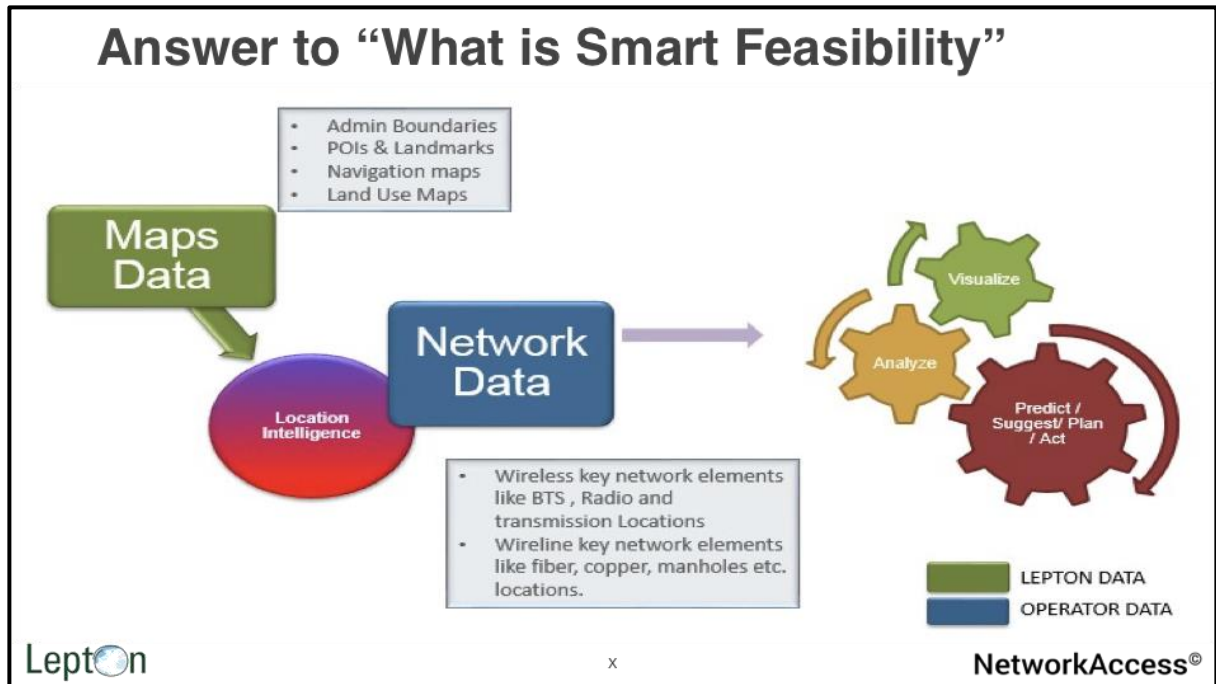

Figure: SmartFeasibility

Smartfeasibility application is a web and mobile-based solution and does not require any client application deployment on desktop/laptop. The solution uses cloud-based Google Map API for showing the base map, on top of which various network entity layers are superimposed. Using the application one can perform multiple feasibility checks without even stepping out of the home/office.

Quick Comparison

Traditional Feasibility Methods	SmartFeasibility Methods
1. Site visit is required to check feasibility. 2. Specific task has to be created and assigned to the Field Engineers. 3. Time/money consuming process. 4. Capable of conducting only a single check at a time. 5. Feasibility can be checked by restricted users.	1. Feasibility can be performed sitting at home/office. 2. Sales Executives perform the feasibility check directly. 3. It is certainly fast and is a cost-effective method. 4. With Bulk Feasibility option, operators can conduct more than 500 feasibility checks at a time. 5. Anybody can check the feasibility on the web.

SmartFeasibility Features

SmartFeasibility solution comprises of the following features:

- **Google Maps:** The solution uses Google Maps as the base for the feasibility/bulk feasibility checks that it performs. As soon as you log in to the solution, you will see Google Maps in the background, presenting the area depending upon your location.

- **3D Building Data:** SmartFeasibility features 3D precision data. Details of the building, including its height, position, etc. are provided in a precise way using this particular feature of the solution.

- **Access Points:** The feature highlights the existing access points over the map. These details are populated basis the clients network information.

- **Bulk Feasibility:** With this feature, telecom service providers can perform more than 500 feasibility checks at a time. This saves both time and money. The inputs are uploaded on the portal in xls format and results can be seen on the portal individually or downloaded in xls format directly.

- **Input Start/End/Midway Points:** The solution offers feature to input start, end, and midway points for the leased lines. This ultimately provides suggestions of available paths automatically without consuming much efforts and time.

- **Route Distance:** The feature calculates the distance between the start and the endpoint of the selected route. Later these routes can be amended as required by the end users.

- **Port Check:** The feature checks whether the particular equipment has enough ports to meet the demand of the customer. The ports details are updated on the ISP part of Smart Inventory and basis the equipment configuration the capacity is checked.

- **3D KML View:** The solution offers 3D KML View for the Line of Sight (LOS) and the wireless connectivity. These views can be shared to customers for better clarity.

- **Download Path in KML/KMZ:** The feasible path can be downloaded in both KML and KMZ formats. These views can be shared to customers for better clarity.

- **BOM/BOQ:** Provides BOM and BOQ for every feasibility that was conducted by the Telcos can be downloaded and shared.

- **Feasibility Dashboard:** Keeps track of the total number of feasibilities done and how many were failed and how many were proven effective.

Outcomes

Checking feasibility using old traditional methods comes at a cost of time, money, and efforts. To make sure that we are utilizing our time and efforts in the best possible way while making feasibility checks, SmartFeasibility is the only possible solution available in the market. Our product has been designed to reduce the efforts of the telecom service providers by **80%** when it comes to performing feasibility checks. While old methods take days to perform a single feasibility check, SmartFeasibility can perform more than 500 checks at a time and that too in minutes. Using the application one can perform multiple feasibility checks without even stepping out of the home/office. SmartFeasibility is the only solution that can help keeping up the business continuity even in such an extraordinary situation.

To conclude: We had a detailed discussion on how SmartFeasibility is the better solution for the Telcos to perform feasibility checks efficiently overruling the need for the workforce to step out of the offices/home during the COVID 19 outbreak. We also demonstrated the working of the SmartFeasibility and concluded that it is a user-friendly application that can be used by anybody who is not that much techy.

About Lepton

Lepton a global leader in location analytics, 3D map data, and geospatial consulting. From helping companies better plan and manage their networks, making field force more efficient, optimising deliveries and improving customer experience, Lepton's location intelligence solutions has empowered more than 500+ companies using their portfolio of products like NetworkAccess, Smartmarket, myCOVIDrisk and Google Maps platform.

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