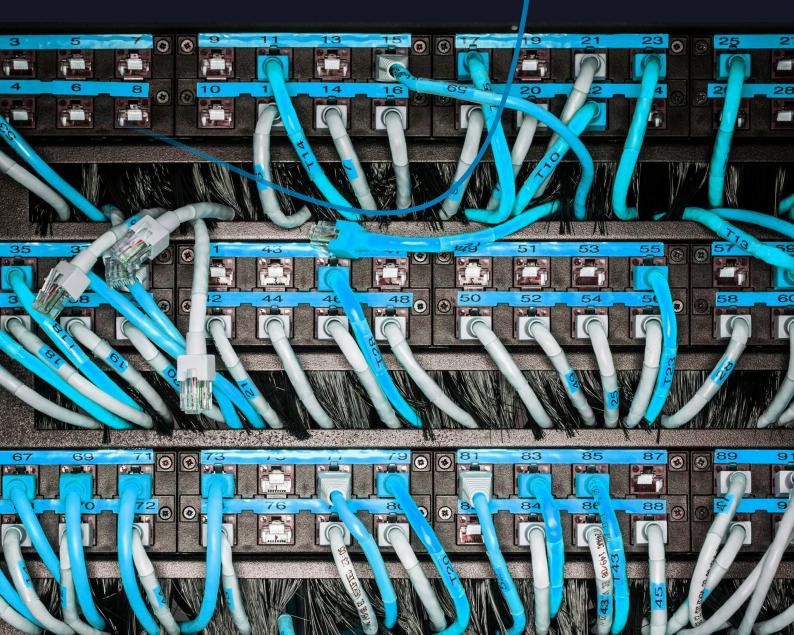


## TELCO NETWORK INFRASTRUCTURE:

STRUCTURAL SEPARATION IS THE KEY TO MAXIMIZING VALUE

A Capgemini Invent view





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### Introduction

Telecom is an asset-intensive business. Over the years, network infrastructure assets have become key differentiators for traditional telecom companies which, by no surprise, also provide a competitive advantage.

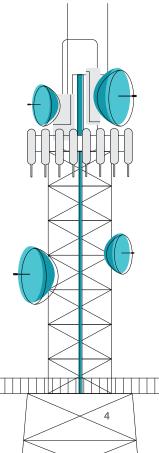
Telecom infrastructure constitutes a wide variety of assets which mainly includes telecom towers, active and passive network equipment, data centers, real estate, inventory warehouses, copper networks, fiber networks, and many more. Building these extensive network assets, uses up a lot of resources. Telcos need to invest billions in capex. They need a significantly long time frame, encompassing many years, and substantial manpower to build the networks. In India, for example, Reliance Jio took between 3-5 years to build their 4G network.[1][2] This included building mobile towers and fiber networks. Verizon launched its first 4G LTE service in December 2010, covering one third of the American population. It took Verizon another 2-3 years to increase their coverage to 97% of the population.<sup>[3]</sup> Further, maintenance of these assets is no easy feat. Opex, covering equipment maintenance and manpower costs, forms a very important expense entry in the accounting books.

Building a telco network is time-consuming and expensive. Moreover, recovering the investment from the telco network could turn out to be even more time-consuming. It usually takes years altogether, if not decades, to recover the investments made on these assets. For instance, a fiber network's break even period is estimated to be around 15-20 years.<sup>[4]</sup>

Telecom networks are not immune to technology changes either. With the onset of every new generation (G) of mobile networks, a telecom network needs regular upgrades and makeovers. Sometimes, a completely new network with a different set of active and passive infrastructure is required. It is also possible to harmonize networks belonging to two different technologies, which is a strategy that most telcos are adopting in their 5G deployment. Apart from the network roll-outs, telcos also need to acquire customers, provide good customer experience (CX), reduce churn and keep competitors at bay. Moreover, it is also quite tedious to have product launches with such traditional arrangements. Managing such a diverse set of activities leads to additional strain on the enterprise leadership. With these organizational complexities, the constant need to adapt to new technologies, and the perpetual threat from Over the Top (OTT) players and native digital service providers, it becomes challenging for telcos to generate good return on investment (ROI).

In the telcos' quest to reinvent themselves and gain lost ground, a paradigm shift has been taking shape on the asset side, wherein telcos are offloading or spinning off their network assets into a separate firm. The motive for such a move could either be external or internal in nature. In many regions, it could be driven primarily due to regulatory requirements or by the advent of a new competitive force in the market. This leads to creation of a "NetCo", which manages the network infrastructure assets, while the remaining part which is the "ServCo" focuses on serving the customers better. The NetCo could further be identified based on the assets they control, i.e. a firm handling tower assets would be termed as "TowerCo" while a firm handling Fiber assets would be called as "Fiber". A spin-offs is not the only option to carve out a separate NetCo. It is also possible to form a joint venture with a third party to form a dedicated network infrastructure management entity.

This white paper further evaluates the compelling reasons for such a move, i.e. creation of NetCo/TowerCo/ FiberCos, and how it helps the telcos. The white paper also sheds some light on the latest happenings across various markets in the context of telco Spin-offs. Further, it also provides a set of guidelines or recommendations for telcos wanting to go down this path of creating Spin-offs.



# The prospect of financial rewards is driving telcos towards spin-offs

Thanks to the data explosion driven by 4G and 5G, the marketplace across the globe is becoming increasingly accessible and smaller. This has led telecommunication services, and revenues generated from it, to have a key multiplier effect on the growth of the nation. However, this increasing importance of the telecom industry has not translated into sustainable revenue growth. The decreasing revenue from traditional services like voice (in both mature and emerging markets), increasing competitive tariffs, increased expenditure on asset management and enormous infrastructure spending to roll out 5G has only added to debt on their books. Additionally, with the COVID-19 pandemic, a large portion of the global population has been forced to stay indoors and support their business from their homes, thereby

increasing the data services consumption. This has put further pressure on service providers across geographies to ensure better quality of service (QoS), and 24X7 network availability, and to roll out 5G sooner.

All these factors have pushed communications service providers (CSPs) to desperately find ways to reduce debt on their books, the cost of their operations, and look for alternative sources of revenue generation. The creation of a NetCo/TowerCo/FiberCo as a separate business entity has become an increasingly popular solution to this problem, over the last decade. Encouraged by governments in some regions and by the need to deploy asset-light networks, the idea of asset sharing is driving telcos towards Spin-offs.

#### Shifting tower as an asset from balance sheets

The CSPs that owned their towers, offloaded that part of their business into separate companies. This has helped CSPs to shift tower assets from their own balance sheets and transferring them to dedicated TowerCos. This sharing model enabled the CSPs to lease out their tower assets. As per an industry report, a telco that rents upto 75% of its sites from tower companies can reduce its first-year costs by 60%. Thus, the capital deployed by the CSP is much more efficient and offers considerable savings in opex.<sup>[5]</sup>

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#### Moving fiber assets to a wholly-owned subsidiary or a separate FiberCos

Similar to towers, moving fiber assets to a whollyowned subsidiary or a separate FiberCo and a potential sale help CSPs in bringing additional capital (into the core mobility business) and reduce future capex investment. The separation of the fiber business eventually results in fiberrelated capex avoidance for the core mobility business and boosts operational efficiencies. Additionally, CSPs can increase their operational income by reselling spare fiber capacity to competitors and other players (such as OTT players and other enterprises).

#### Individual NetCo/TowerCo/FiberCo have more valuation than an integrated telco

This sharing model also prompted the emergence of independent tower companies such as Viom (with around 50,000 towers), GTL Infrastructure Ltd., American Tower Corp. and ATC (with 35,000 and 10,000 towers, respectively), Cellnex, and Inwit of Italy. These companies do not have the traditional telecom components. The operating model is building and leasing of towers for a fee per month, for typical contracts of 15-20 years.

Some of these tower specialists have significantly higher valuations than telecom operators. For example, Cellnex and Inwit of Italy are valued higher than CSPs in their region. This valuation is being derived by measuring the ratio of enterprise value to earnings before interest, taxes, depreciation and amortization (EBITDA). Cellnex's enterprise value stands at approximately 34 times its EBITDA, whereas the ratio is 6.77 for Deutsche Telekom and 5.02 for Vodafone.<sup>[6]</sup>

## Case for Spin-offs

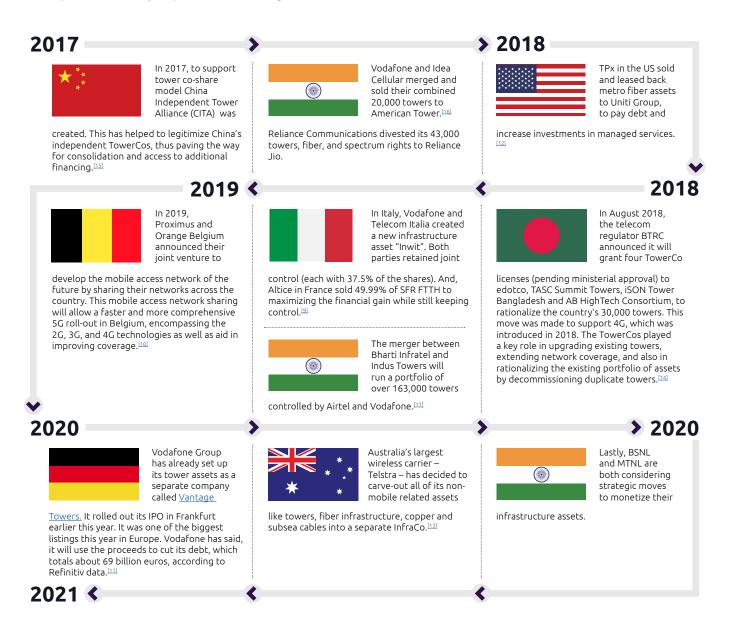
NetCos/TowerCos/FiberCos deliver a number of benefits to CSPs, the wider wireless sector and, ultimately, the consumer. Some of the key benefits entailed, are listed below:-



All these factors lead to enhanced stakeholder value and better ROI, thereby enabling investments at more predictable returns.

# The tangible benefits due to Spin-offs has created a strong case for TowerCos / FiberCos / NetCos.

Examples of some major Spin-offs across the globe include:



Apart from this, several smaller European operators have moved to unload their tower assets in recent years. France's Iliad, Switzerland's Sunrise Communications Group, and Ireland's eircom Group have all sold tower assets to specialist companies such as Spain's Cellnex Telecom or Blackstone Group-backed Phoenix Tower International.

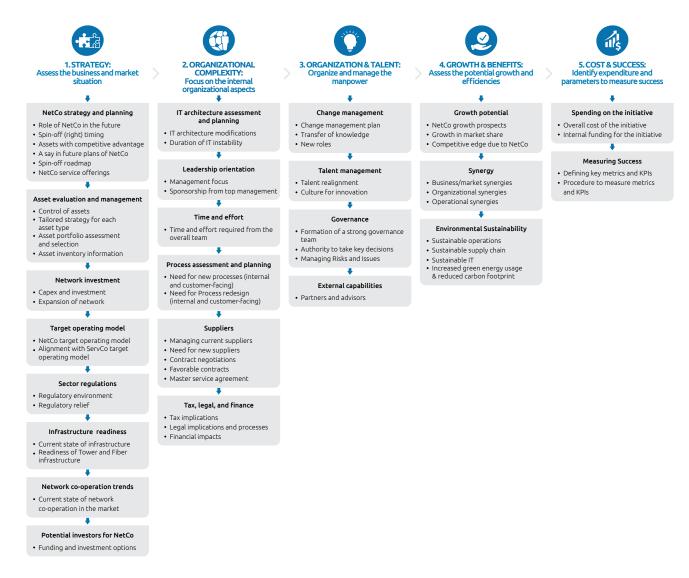
### How should telcos plan their network asset Spin-offs strategy?

Spin-offs, if managed well, could lead to a significant increase in the valuation of a telco's network infrastructure. A Netco/ TowerCo/FiberCo would focus on managing the infrastructure assets while the parent telco (the ServCo) would focus on improving the customer experience and create differentiation in the market via value-added services and product offers. Together, this plan could work very well.

However, this is easier said than done. Implementing a Spin-offs from a telco's assets is a tricky task and needs a great level of planning and focus on the overall outcome. A variety of factors and scenarios need to be taken into consideration.

It needs time, efforts, and dedication from enterprise leadership. It needs proper planning and detailed assessment of multiple aspects involved. Lack of appropriate preparation could lead to costly losses and brand damages, not to mention losing the opportunity to monetize the telco's assets and, by the virtue of this, put the house in order.

Given the enormity of this exercise, here is a proposed framework that covers almost every aspect of this initiative. This framework is indicative in nature and provides a broader outline of the criteria a telco needs to consider while planning a Spin-offs. Careful evaluation of every parameter will lead to building a very practical strategy for the Spin-offs initiative.



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## How can Capgemini Invent help?

Capgemini Invent is Capgemini Group's innovation, design, and transformation powerhouse. Our '**Customer First**' approach orchestrates great customer experience at scale and drives sustainable growth. Our '**Enterprise transformation**' capabilities transform an organization into an agile, resilient, relevant, and sustainable businesses. Our '**Intelligent Industry**' solutions help business drive new revenue streams and increase efficiency. With '**Invent for Society**', we assume our responsibility to solve key societal questions that shape our future world.

By combining strategy, technology, data science, and creative design expertise with an inventive mindset, we partner with our clients to innovate and transform their business, helping them navigate today, while plotting a course for the future.

With the help of our comprehensive frameworks, assets and in-depth Industry expertise, we can enable our clients to form a strategy and roadmap for monetizing their network infrastructure assets. We can help clients in governing structural separation initiatives and realize business value for stake holders.

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Nobina has over a decade of experience in helping major Telcos across the globe in their greenfield and brownfield transformation initiatives. Her areas of expertise are Business Process Transformation, Digital Strategy implementation and delivering Analytics-based insight-driven solutions.



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Capgemini Invent is an integral part of Capgemini, a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive, and sustainable future. It is a responsible and diverse organization of 270,000 team members in nearly 50 countries. With its strong 50-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fuelled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering, and platforms. The Group reported in 2020 global revenues of €16 billion.

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