Good morning and welcome. My name is Shrita Gaonkar and I am the relations manager of XYZ company. This morning, XYZ will take you through all aspects and rollouts of 5G and its acceptance in the society. We should have time for your questions at the end before we finish up around 11:30. When you wish to ask a question, please use a microphone so participants on the webcast can hear your question. I would also ask that everyone please turn off your cell phones at this time. Unless otherwise specified, all figures are in Canadian dollars.

Slide1:

Introduction

5G – or 5th generation – technology is often described as the next generation of connectivity and Internet. However, 5G is much more than just that. With estimated data transmission speeds that are nearly 20 times faster than current 4G-LTE connections, 5G will allow the avid Netflix-er to download a movie within a matter of seconds. However, it will also enable the development of technologies and applications that can change the provision of basic services like healthcare, and with a true capacity for Internet of Things (IoT) connectivity, it can even revamp our cities and communities altogether. Fixed wireless and mobile technology convergence, illustrated by the introduction of the 5G trials already underway in Canada. The result of this convergence is one concept: wireless broadband – something that will enable Canadians’ 5G connectivity in the years ahead making internet cheaper and efficient.

Sectors where 5G can be used

1. Healthcare:

Imagine a surgery with nothing more than a papercut. This is the future of healthcare with robotic Surgery. With doctors operating the robots from just 15minutes away to 15 hours away, and on-site presence of surgeons in case of emergencies.

Although, this sounds interesting it becomes more so when combined with 5G

1. Agtech

**Drones** can do soil health scans, monitor crop health, assist in planning irrigation schedules, apply fertilizers, estimate yield data and provide valuable data for weather analysis. Drones can be more prevalent with 5G’s implementation.

Slide 2:

Analysis Methodology

1. Manufacturing and 5G:

5G technology enables faster production changes in several ways. First, the improved speed and reliability of the wireless connections allows a move away from wired connections, which physically allows for greater flexibility in moving equipment. Furthermore, when a large number of machines have to be updated the total amount of data can be significant; therefore, increased bandwidth and reliable speeds allows machines to be re-programmed with individual software updates faster to reduce downtime

We **assume** that for each additional mobile subscription per 100 population, the GDP growth rate increases by 0.0311%. Finance Canada forecasts a GDP growth rate of 1.8% from 2016-2021 and 1.6% from 2022 to 2030 according to current economic conditions. Under the 2021 auction scenario, we estimate that Canada will see 37.6 million mobile subscriptions by 2030 as a result of 5G. Similarly, a 2019 auction scenario **estimates** 38.1 million subscriptions at the same timepoint – that’s 500,000 more mobile subscriptions as a result slightly accelerating the auction period.

There are currently a number of software design and engineering jobs that have been posted on Canadian job boards As 5G will rely heavily on software defined networking and network management software, the presence of these jobs is to be expected within a “preparation” for rollout phase. However, upon more detailed examination of these roles, it becomes evident that the skills and eventually the positions themselves will transition into 5G jobs when Canadian 5G networks are deployed and operational.

With the latest 4G technology used in India, I as a student taking my course remotely was able to browse all the videos and attend the lectures for at least 2 hours after which the internet was sluggish. For me, this was a big disappointment. I skipped some very significant points discussed during the lecture due to bad connections.

Even “unlimited plans” will get throttled down after 20GB of usage. Watch a couple of movies, get some software updates and you have hit your monthly quota.

Video surfing also has been a huge problem for me. Moreover, 4G is optimal for data rates, but not necessarily the best for Voice services. Some of these services were often offloaded (delegated) to Wi-Fi or 3G/GSM cellular technologies on my phone.

India's average mobile upload speed is at 4.31Mbps and latency is 52ms. The global average of mobile upload speed is 11.22Mbps and average latency is 42ms. In terms of mobile internet download speed/ latency India was far below the global average which can change with the implementation of 5G worldwide.

Slide 3:

Argument and details

5G is so much more than just the next generation of mobile Internet. It will make the economy larger, more accessible, generate more jobs for Canadians and contribute towards solutions to real-life societal challenges. The timing or rollout is a key factor on this journey, and our collective success in harnessing 5G’s capabilities and benefits means preparing for them today. identifying early stage jobs in architecture/design or deployment with a certain level of accuracy, is challenging at this point. However, despite slow movement in rollout, 5G is already playing a role in our economy, creating jobs and the acceleration of key skills.

Slide 4:

Conclusion

Slide 5:

Recommendation and ending

5G is not only important because it has the potential to support millions of devices at ultrafast speeds, but also because it has the potential to transform the lives of people around the world. It has the potential to be an indispensable technology. It is estimated that by 2035, 5G “will enable $12.3 trillion of global economic output and support 22 million jobs worldwide.”

There are several reasons that 5G will be better than 4G:

• 5G is significantly faster than 4G

• 5G has more capacity than 4G

• 5G has significantly lower latency than 4G

• 5G is a unified platform that is more capable than 4G

• 5G uses spectrum better than 4G

Thank you for attending the meeting. I will now answer any questions if you have them.

Stakeholder situations

**Assuming that this is the QnA section: If the stakeholder says proposal doesn't meet the company's high standards.**

1. **Ask them about the practices and guidelines adopted by the organization and provide a solution accordingly**
2. **Stakeholder agrees but does not commit:**

**Brainstorming on Analysis and Methodology part within a minute using the following paragraph:**

Software Defined Networks (SDNs) and Network Function Virtualization (NFV) are technologies moving to the heart of future 5G infrastructures. Many jobs in Canada are labelled as “advanced LTE” jobs – a title that has connotations to our current telecommunication network, rather than a future development. The prevalence of these more “junior” level jobs is an interesting indicator of an emerging nature of this technology job market in Canada and the opportunity that lays ahead for new graduates.