



# ESOTERIC

## *THE IT CLUB*

(IN PURSUIT OF EXCELLENCE)




# *TECHRONICLES*

TC005



# 5G NETWORK





"5G will have an impact similar to the introduction of electricity or the car, affecting entire economies and benefiting entire societies."

– **Steve Mollenkopf, former CEO of Qualcomm**



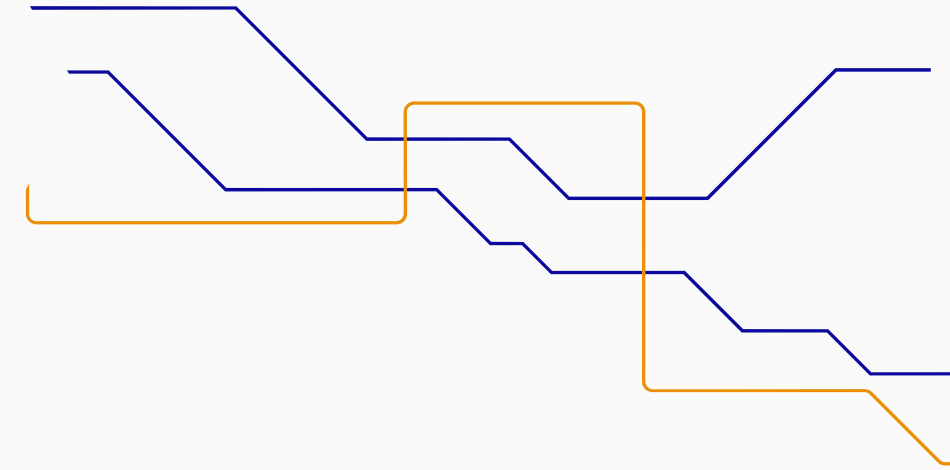
# The Future of 5G Networks

5G technology is rapidly transforming global communication, offering higher speeds, lower latency, and greater capacity than previous generations. Key terms such as 5G NR (New Radio), spectrum, latency, and Massive MIMO (Multiple Input, Multiple Output) are crucial to understanding how 5G operates and its impact on industries like healthcare, smart cities, and autonomous vehicles.

Recent global developments highlight this growth. Nokia has partnered with Vietnam Posts and Telecommunications Group (VNPT) to deploy 5G infrastructure across Vietnam. Meanwhile, the private 5G network market is projected to reach \$6.83 billion by 2028, growing at an impressive CAGR of 48.9%.



# TERMS OF THE WEEK



## 01 5G NR (New Radio)

The wireless standard for 5G networks.

## 02 Spectrum

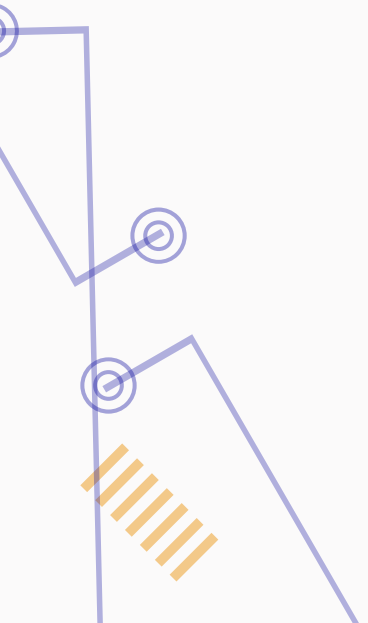
The range of frequencies for wireless communication.

## 03 Latency

The delay in data transmission over a network.

## 04 Massive MIMO

A technology using multiple antennas for better speed and coverage.



# NEWSFLASH

## **Nokia and VNPT to Deploy 5G in Vietnam**

Nokia has partnered with Vietnam Posts and Telecommunications Group (VNPT) to deploy 5G infrastructure across Vietnam.

## **Private 5G Network Market Growth**

The private 5G network market is projected to skyrocket, with an expected valuation of \$6.83 billion by 2028, at an impressive CAGR of 48.9%.



## Trending News

Nokia and VNPT to roll out 5G across Vietnam.



## New Tools and Frameworks

Advancements in network slicing and AI-powered 5G optimizations.



## Industry Insights

The private 5G market is expected to grow significantly, offering new opportunities for enterprises.



## Startups and Innovations

Companies are leveraging edge computing to enhance 5G network efficiency.

# MAKE IT HAPPEN



**Invest in  
Spectrum  
Allocation and  
Optimization**



**Cellular  
Connectivity**



**Prioritise  
Security**



**Use Up-to-Date  
Software and  
Firmware**



**Connectivity**



**Check Device  
Compatibility**





# Hands On Learning

## Coursera

Wireless Communications for 5G Networks – A course covering the fundamentals of 5G and wireless technologies



## edX

A course providing insights into 5G fundamentals and applications



# Udacity

Introduction to 5G - A free course  
designed to teach the basics of 5G  
networking



# STUDENT CORNER

Tech Quiz: Test Your 5G Knowledge



**ProProfs**

5G Network Quiz



**Sanfoundry**

5G Technology  
Online Test



**Quizgeck**

5G Basics Quiz

# Further Reading and Resources

**GSMA: Latest reports on 5G technology and adoption.**



**Ericsson Mobility Report: In-depth analysis of global 5G trends.**



**5G Americas: Insights on the evolution of 5G networks.**





# Presenters





# Thank You

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**Stay inspired stay connected**

Presenters and curators  
Jishnu  
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