ISPs (Internet Service Providers)

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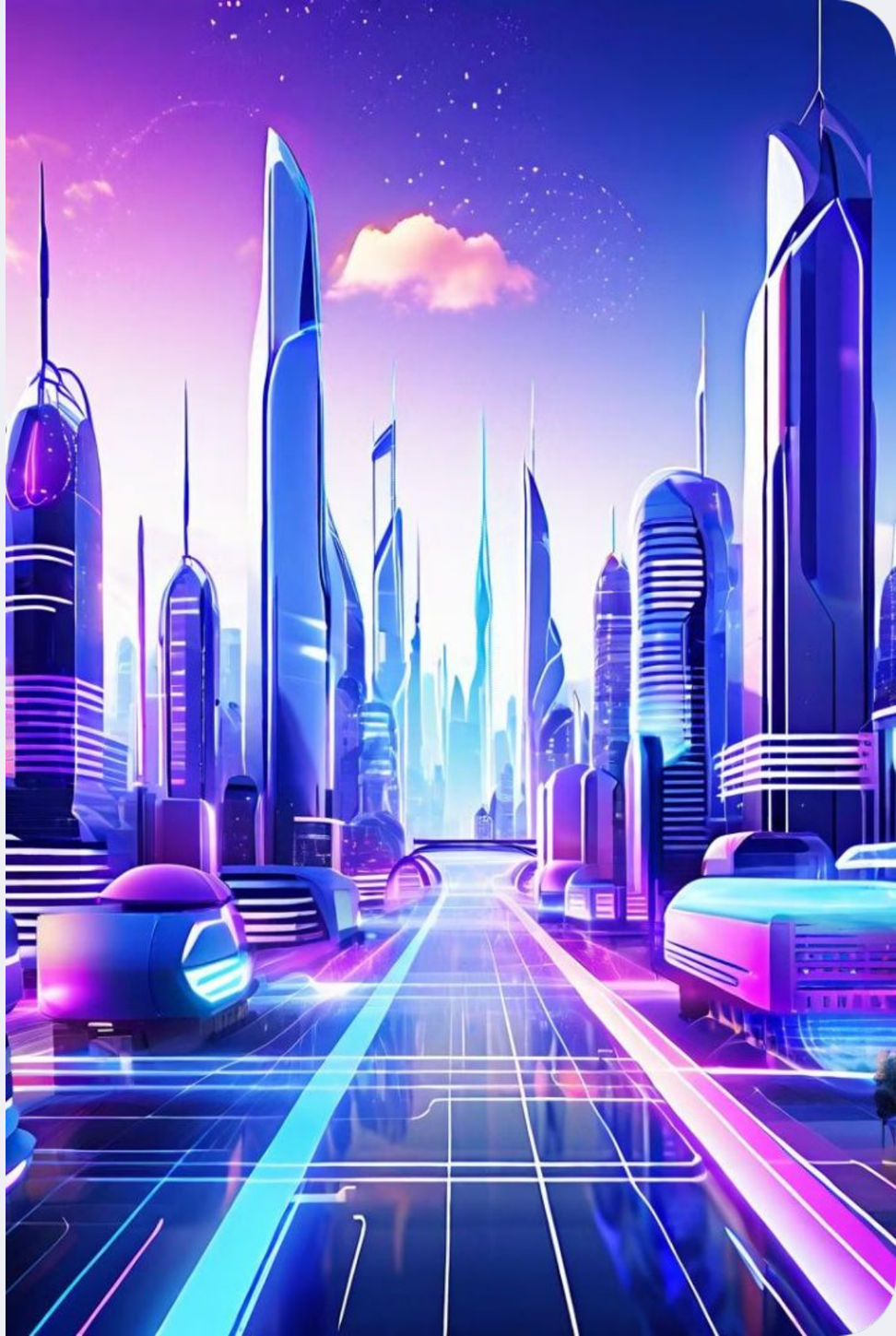
Introduction to ISPs

An ISP, or Internet Service Provider, is a company that provides internet access to individuals and businesses. ISPs connect users to the internet via various technologies, like DSL, cable, fiber optic, or satellite.



Key Features and Services of an ISP

Internet Speed

ISPs offer different speeds, measured in Mbps (megabits per second). Faster speeds are crucial for activities like streaming and online gaming.

Data Limits

ISPs may impose data caps, limiting monthly data usage. Exceeding the cap can result in additional charges or reduced speed.

Internet Services

Besides internet access, some ISPs provide bundled services like phone lines, TV subscriptions, and home security systems.

Factors to Consider When Choosing an ISP

1 **Speed**

Consider the internet speed you need for your activities, such as streaming, gaming, or working remotely.

2 **Cost**

Compare prices for different plans and services, taking into account potential data limits and extra fees.

3 **Availability**

Check if the ISP offers service in your area and what technologies are available, like DSL, cable, fiber, or satellite.

4 **Customer Service**

Read reviews and compare customer service ratings to gauge the ISP's reliability and responsiveness to customer issues.

The Future of ISPs and Internet Connectivity

1

5G Networks

5G technology offers significantly faster speeds and lower latency, improving internet connectivity for both homes and businesses.

2

Fiber Optic Expansion

Fiber optic cables offer the fastest internet speeds and are being rapidly deployed in many areas, providing high-bandwidth connectivity.

3

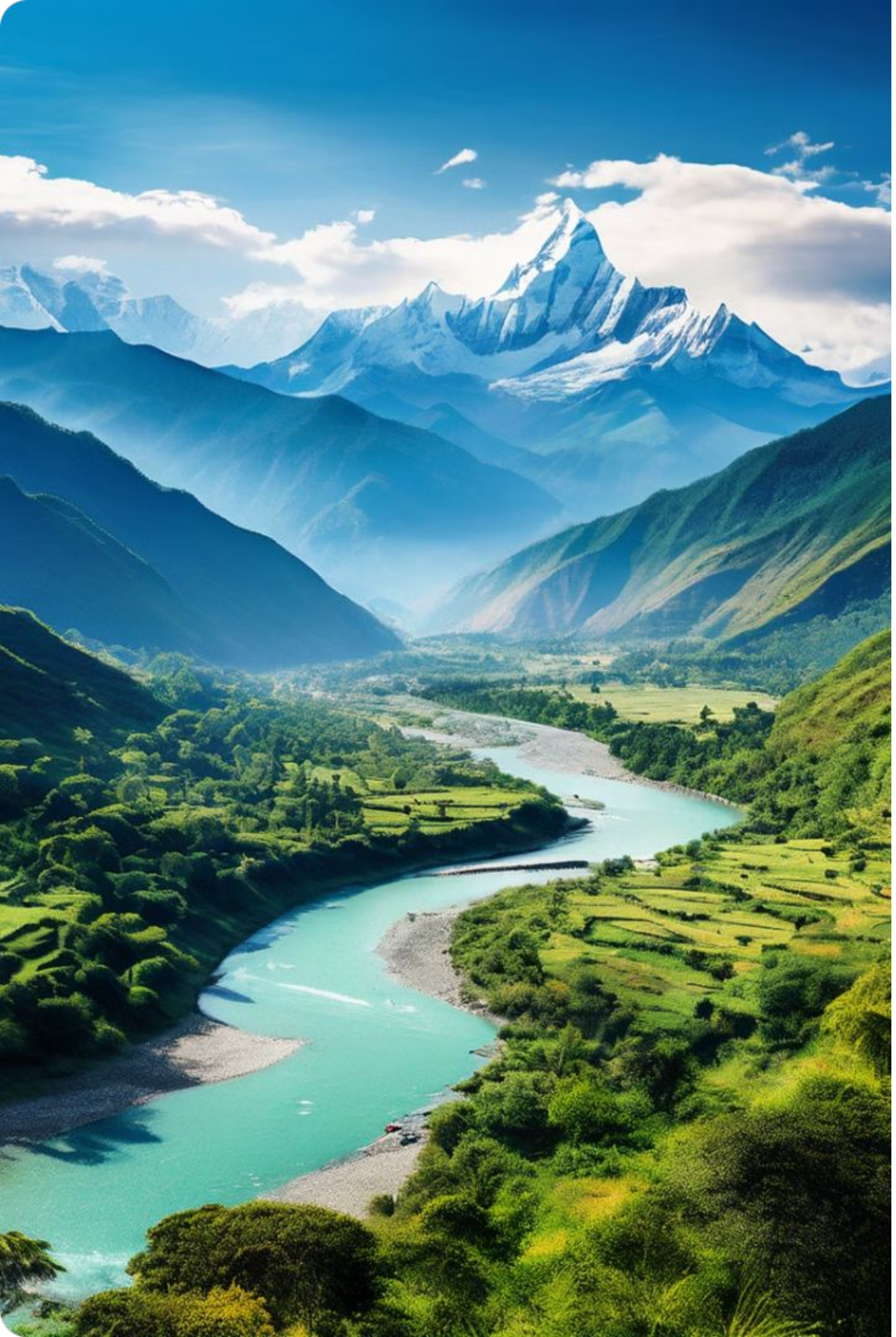
Smart Home Integration

ISPs are increasingly integrating internet services with smart home devices, enabling seamless control of appliances and security systems.

4

Data Security and Privacy

As internet usage increases, ISPs face growing concerns about data security and privacy, requiring robust measures to protect customer information.



ISPs in Context of Nepal

Nepal's internet service providers (ISPs) play a crucial role in connecting the country's diverse regions and enabling digital access for its growing population. The country has seen significant growth in internet penetration over the past decade, driven by both urban and rural demands for connectivity.

History of Internet in Nepal

Beginning Of The Internet In Nepal

- The Internet was introduced in Nepal in 1994 which is just after 4 years of the initial globa launch.
- **Mercantile** was the first company to launch the internet in Nepal.

Launch Of Real Internet Connection In Nepal

- **WorldLink** is the largest internet service provider in Nepal which was established in 1995 AD. It started providing internet in Nepal through a dial-up connection modem.
- The dial-up connection modem used to produce irritating noise and the maximum speed a user could get under a favorable situation was 56 Kbps.

Introduction Of Wireless Internet With Better Speed

- **WorldLink** adopted wireless technology and in 2003 AD, it introduced wireless internet in Nepal which managed to provide a massive jump in the speed from 56Kbps to **256Kbps**.
- This solved the problem of noise that dial-up connections used to make, slower speed, and the problem of not being able to use the telephone and internet simultaneously.

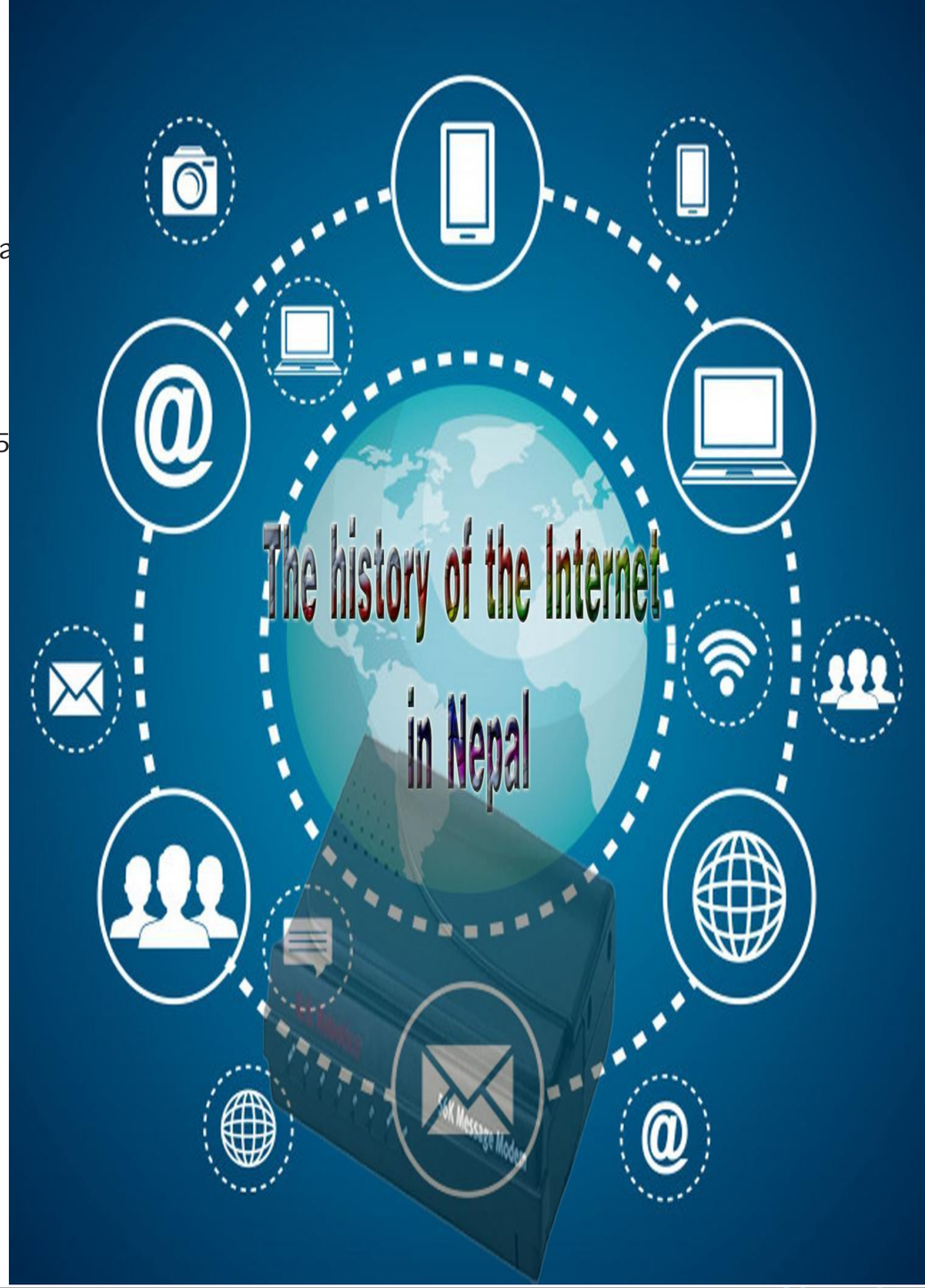
Introduction Of Cable Internet In Nepal

GPRS And 3G Internet In Nepal

Nepal Telecom ADSL Connection And WiMax

The Golden Era Of Fibre Optics-Based Internet In Nepal

The Evolution Of 4G, LTE, VoLTE Internet In Nepal



Major ISPs in Nepal

Nepal Telecom

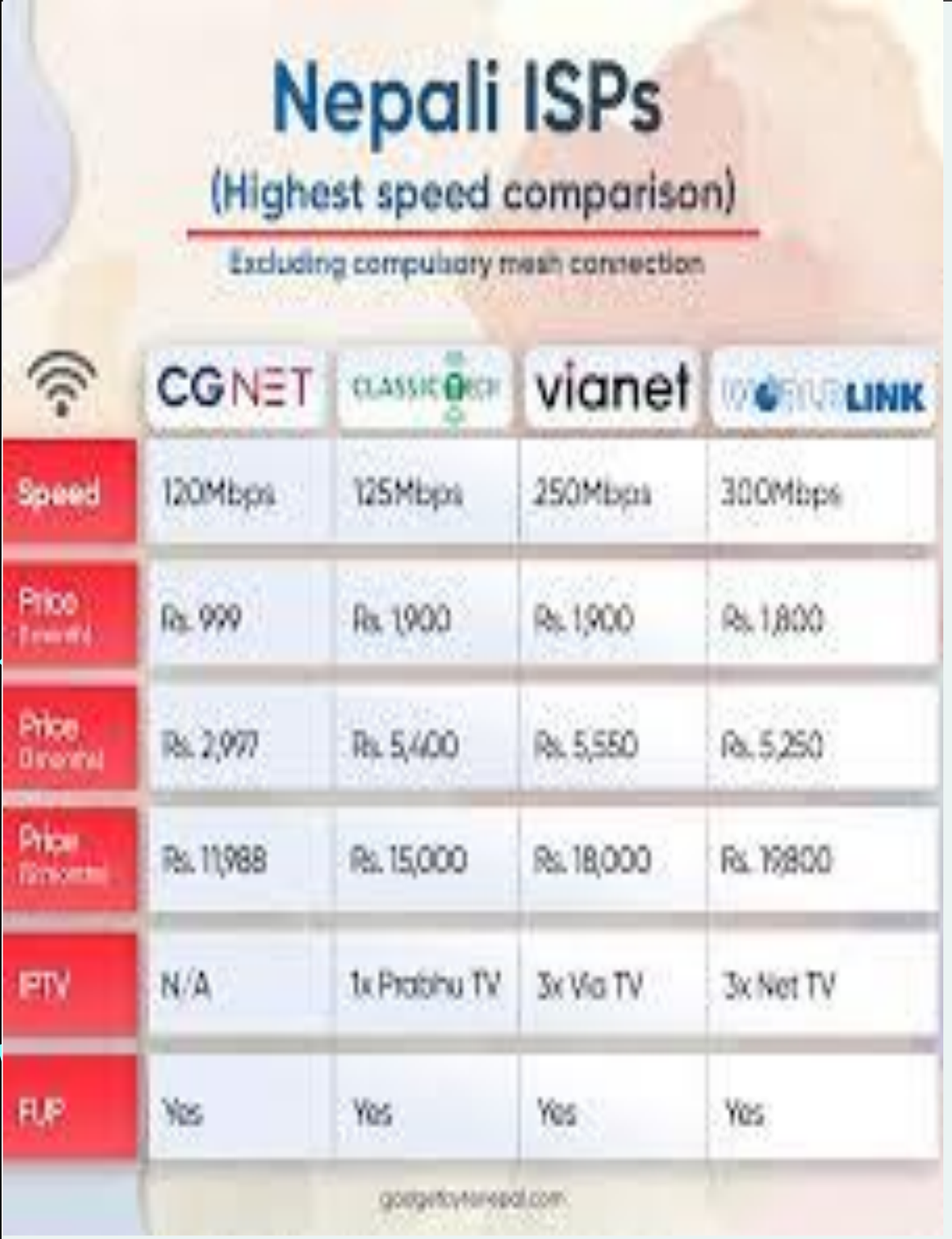
The state-owned telecommunications company, providing a range of internet and communication services nationwide.

Ncell

A leading private ISP, offering high-speed internet and mobile data services across Nepal.

UTL and others

Other prominent ISPs in Nepal include United Telecom Limited (UTL) and Worldlink, Subisu, Vianet and others.



Pricing and Affordability of Internet Services

1

Prepaid Plans

Nepal's ISPs offer a range of prepaid internet plans, which cater to users with varying data and budgetary needs.

2

ADSL (Asymmetric Digital Subscriber Line)

- **Pricing**: ADSL plans are usually more affordable, ranging from NPR 700 to NPR 2,000 per month.
- **Speed**: Speeds are generally lower, ranging from 512 Kbps to 8 Mbps.
- **Provider**: Nepal Telecom is a primary provider of ADSL services.

3

Subsidies and Initiatives

Government and ISP-led initiatives aim to improve internet affordability, especially in underserved rural areas.

Internet Penetration and Connectivity Challenges

1

Urban-Rural Divide

Nepal's internet penetration rate is higher in urban areas, while rural communities often lack reliable and affordable internet access.

2

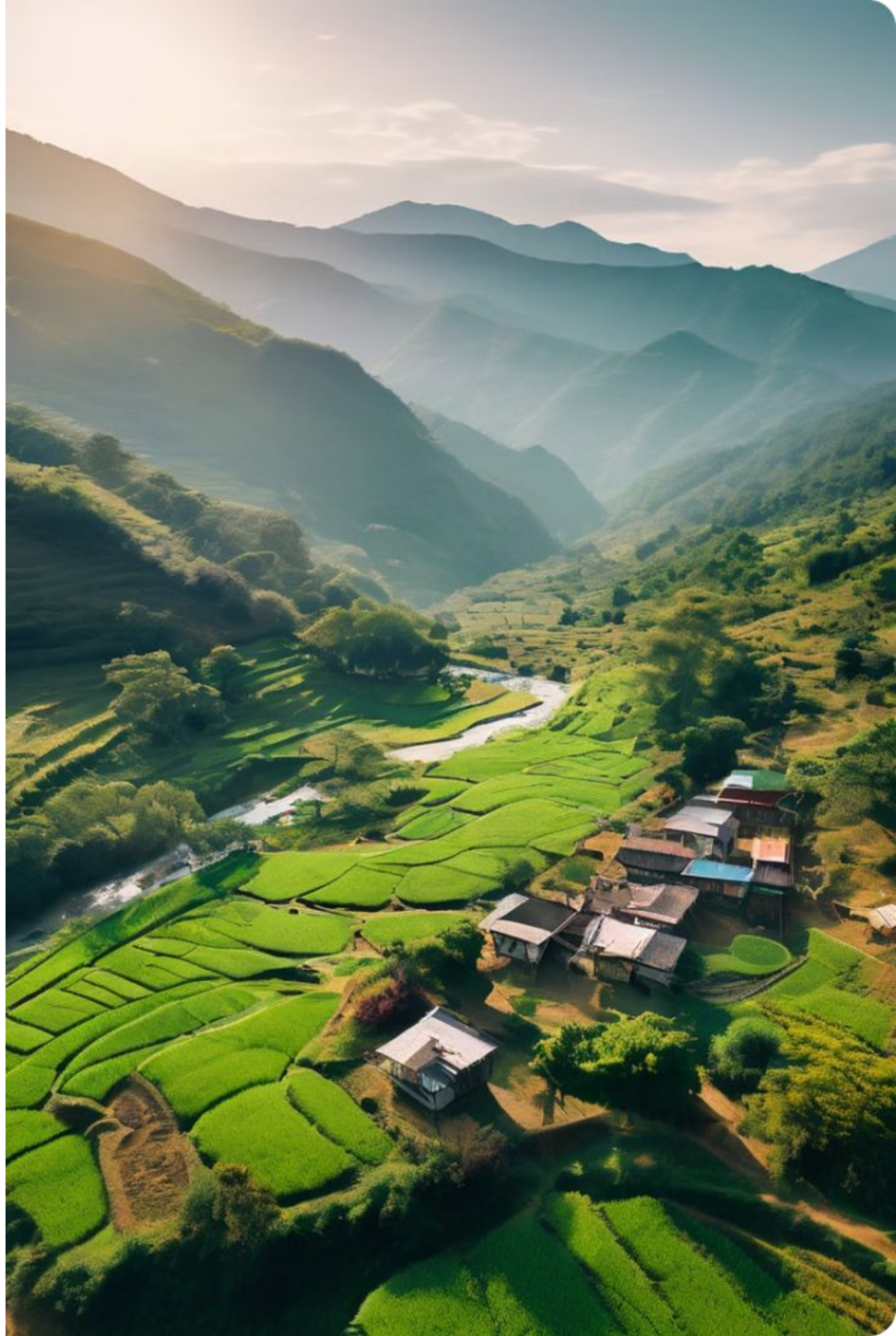
Topographical Challenges

Nepal's mountainous terrain poses unique challenges for ISPs in extending network infrastructure and ensuring consistent connectivity.

3

Socioeconomic Barriers

The affordability of internet services remains a significant barrier, especially for low-income households in Nepal.



Emerging Technologies and Future Trends

5G Deployment

Nepal's ISPs are preparing to introduce 5G technology, which promises faster speeds and lower latency for users.

Fiber-Optic Expansion

Expansion of internet infrastructure is being expanded to improve broadband connectivity, especially in urban areas.

IoT and Smart Cities

Emerging technologies like the Internet of Things (IoT) are enabling the development of smart city initiatives in Nepal.

Rural Connectivity

Innovative solutions, such as satellite internet and community-based networks, are being explored to bridge the rural-urban digital divide.

Thank You for joining us today.