INFORMATION AND COMMUNICATION TECHNOLOGY

0

1855();777 class



GOVERNMENT OF NEPAL

APRIL 2024

1. OVERVIEW

Global IT spending was projected to reach USD 4.6 trillion in 2023, marking a 5.5% increase from 2022



In Nepal, IT companies invested **USD 41.26** million in 2022 and generated USD 515 million as revenue

IT service exports contributed **1.4%** of GDP, equivalent to USD 0.25 billion



Most clients of Nepal's IT companies are in the United States **(77.8%)**; number of clients from Asia and the Middle East has begun to increase



Graduates in IT related courses: **5,935** in 2018, **8,301** in 2019, **9,242** in 2020, and **10,084** in 2021

Application of ICTs in Nepal

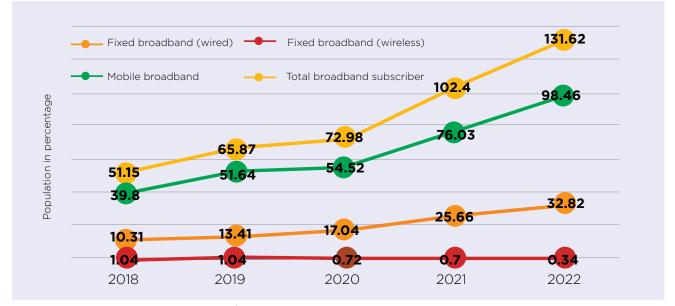
Government	 National ID, MRP/e-Passport, Voter ID, Driver's License, immigration, and the Nagarik (Citizen's) App Company and Tax Registration, Management Information Systems (MIS), Revenue Management Information System (RMIS) and integrated GON emails 				
Banking/finance	Almost all banks and financial institutions have Internet/Intranet based core banking systems to provide 24-hour services				
Corporate houses	 Individual Management Information Systems (MIS)/Decision Support Systems (DSS) 				
Mobile applications	Both in public and private sectors				
E-Commerce	Shopping, door-to-door delivery and ride sharing applications				
Fintech	Digital payment services				

IT services export 2020-2022 (USD million)

Year	IT companies		IT freelancers		ITeS freelancers		Total services exported	
	Amount	Growth (%)	Amount	Growth (%)	Amount	Growth (%)	Amount	Growth in %
2020	88	25.8	43.2	4.2	177.z1	-7.2	308.3	2.0
2021	111.5	26.8	52.7	21.9	149.7	-15.5	313.9	1.8
2022	20.31	80.5	69.6	32.0	244.5	63.4	515.4	64.2

Source: IIDS, 2023

Broadband internet penetration



2. INVESTMENT OPPORTUNITIES

Digital foundation

- Connectivity (5G Internet Service Providers)
- Data centres
- IT Park in the Kathmandu Valley and Special Economic Zones (SEZs)
- Internet of Things and Big Data for digitalisation of agriculture, health, tourism, education, finance, e-Commerce, transport, manufacturing, and public services
- Cyber Security Centre
- Fostering e-Governance by applying GEA in all potential sectors

Agriculture sector

- Precision farmingCrop monitoring and disease detection
- Smart irrigation
- Automated harvesting
- Climate prediction/ forecasting
- Agricultural data analytics
- Traceability and food safety



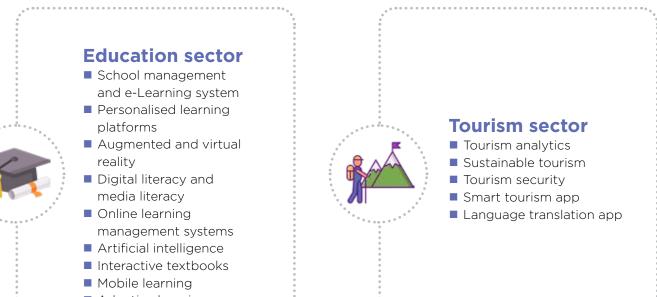
Health sector

- Health chatbots for patient support
- Remote health coaching
- Blockchain for health records
- Telemedicine platform



Urban infrastructure

- Water ATMs in public places
- Intelligent waste management system
- Automated Waste Sorting





Energy sector ■ Renewable energy grid

- integration
- Smart grid technology
- Energy-efficient building design
- Electric vehicle infrastructure
- Sustainable agriculture
- Energy-efficient transportation
- Energy storage
- Smart home technology

Finance sector

- Robo-advisor platformBlockchain-based payment system
- Al-powered fraud detection
- Automated trading algorithms
- Financial data analytics platform
- Digital wallet and mobile payments
- Cryptocurrency exchange
- Investment portfolio management tool
- Personal finance
- management app

3. SUPPORT SYSTEM



Broadband Policy 2014

It address key issues and challenges related to broadband access and outlines institutional arrangements, resource mobilisation, and legal and regulatory frameworks.



Information and Communication Technology Policy 2015 It provides framework for development and implementation of ICT, emphasising the expansion of broadband and telecommunications infrastructure and the enhancement of e-government services



Legal framework The Electronic Transactions Act 2008 provides a legal basis for transactions



Cybersecurity

National Cyber Security Policy 2023 focuses on securing digital infrastructure, mitigating cyber threats, and promoting reliability of online services



Digital Nepal Framework 2019 A government blueprint for enhancing socioeconomic growth by using ICT, has listed eight potential sectors and 80 digital initiatives



ICT education

The Education Master Plan seeks to enhance ICT infrastructure and human resources for fostering digital literacy and skill development



E-Governance initiatives E-Governance Master Plan encourages digital government services for fostering transparency and efficiency



Regulatory oversight Nepal Telecommunications Authority (NTA) ensures adherence to telecommunication regulations and promotes fair competition

Incentives

50%

exemption on income tax leviable on foreign currency earned through export of Business Process Outsourcing, software programming, cloud computing and other IT enabled services



digital service tax levied on digital services provided by non-residents to Nepali citizens



No digital service tax on annual transaction up to NPR 2 million



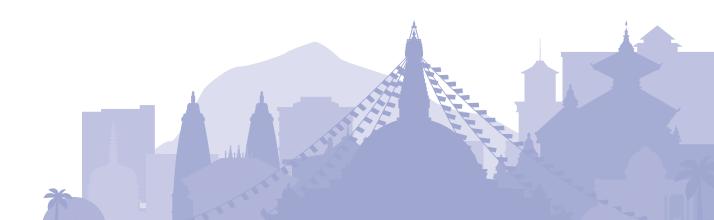
No minimum investment threshold for FDI in ICT sector



IT Park operating within SEZ eligible for other exemptions applicable for industries located in the zone

Scan for full sectoral profile, including the data sources.







For this document





GOVERNMENT OF NEPAL

ICC Complex, New Baneshwor Kathmandu, Nepal Phone: +977-1-4575276, 4575277, 4575278 Fax: +977-1-4575281 Email: info@ibn.gov.np Website: www.ibn.gov.np

Support: DCEL Project (IBN/UNDP Nepal)