The safe, wise and secure use of digital tech by Nepali migrants and their families: advice for those with little experience of using digital technologies



Source: Tim Unwin



Facilitated by the <u>UNESCO</u>
Chair in ICT4D with migrant communities in Nepal as a contribution to WP9 of the MIDEQ Hub





Overall aim of this training



Migrants' wives in Nepal discussing the impact of migration (Source: Anita Ghimire)



To provide migrants and their families who have little experience of digital tech with a basic introduction to its **safe**, **wise** and **secure** use, so that they can benefit appropriately from their use and enhance the lives of migrant communities.



What are digital technologies?



- Devices and systems powered by electricity that are used to share and store information
- Some examples
 - Radios
 - One way transmission of information
 - Basic mobile phones
 - To make phone calls and share messages
 - Internet
 - A globally connected system of information (data)
 - "Smart-phones"
 - Phones that can be used to connect to the Internet
 - Tablets and Computers (Laptops and Desktops)
 - More powerful and bigger devices for storing and sharing more information (data) on bigger screens



Solar powered and wind-up radio and battery charger
Source: Tim Unwin

The positive potential of digital tech



- Helping us to connect with family
- Sharing useful information with friends
 - News
 - How to get a job
- Gaining access to services (such as health, welfare and employment) provided by
 - Governments
 - Companies
 - NGOs
- For when we are in trouble: rescue and repatriation
- Managing our money and sending some of it home
- Language and translation
- Finding out where we are
- And much more...



Migrant's wife proudly showing off the tablet sent to her by her husband (Source: Anita Ghimire)

But to take advantage of all this, it is essential to use digital tech safely, wisely, and securely – all linked together



Source: Tim Unwin



Remember that digital tech can also be used deliberately or accidentally to cause many harms



The positives of digital tech can only be realised if...



- Migrants and their families have basic "digital literacy"
 - Knowing how to use digital tech
- And use digital tech:
 - Safely
 - Ensuring safe practices are used
 - Wisely
 - Using digital tech for appropriate purposes
 - Securely and privately
 - Making sure use of digital tech is as secure and private as possible



Source: Tim Unwin

1. Need to begin with basic use of digital tech



Source: Tim Unwin



We can do much more with digital tech if only we knew how! Everyone can learn how to be tech savvy!



Using a basic mobile phone



- Phones enable you to connect by voice or text to family and friends
- But remember that everything you use a digital phone for can be traced
 - So use it wisely and carefully
- It requires electricity, so remember to charge it up
 - There are many ways of doing this
- You need to be connected to a network
 - Having an account (with a SIM card) and a supplier
 - Ensure you are within coverage area of your supplier



Basic Nokia phone
Source: Tim Unwin

Need to connect to a Network: SIM Cards



- SIM cards
 - Enable you to connect to a network
- Different companies and networks
 - Charge different amounts
 - Offer different services
- Payment
 - Prepaid (pay in advance as needed)
 - Contract (usually monthly charged to a bank account)
- Need to choose company that will best suit your needs



SIM cards
Source: Tim Unwin

(Note: SIM means Subscriber Identity Module)

Using smart-phones



- Smart-phones enable you to be connected to the Internet
 - As long as you are within the network coverage area of your supplier
 - But they are more expensive to buy and use
- Can still be used for basic calls and text
- Also can have many apps (applications) that run on them to do things
 - Some free, but many need to be paid for
- Typical apps and platforms
 - Social media and messaging (such as WhatsApp, Facebook, Viber, TikTok)
 - For communicating and sharing text, images, audio and video
 - Games
 - Watching films
 - Making payments
 - Accessing platforms and apps such as
 - Such as DOFE Baideshik Rojgar, and https://pardesi.org.np



Smartphone Source: Tim Unwin

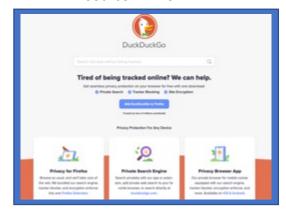
Connecting to the Internet



- What is the Internet (or Net)?
 - A global system of connected computers that you can access when you are "online"
- What is the World Wide Web (or Web)?
 - The pages and information you see when you connect to the Internet
- Connectivity through mobile networks and WiFi
 - Mobile data package
 - Using WiFi (but remember data security issues)
 - Public (sometimes free as in airports) and private WiFi networks
- Searching the web using Browsers
 - Popular such as Chrome (Google), Safari, Firefox, DuckDuckGo
- Interacting: using voice, text, video through applications (apps)



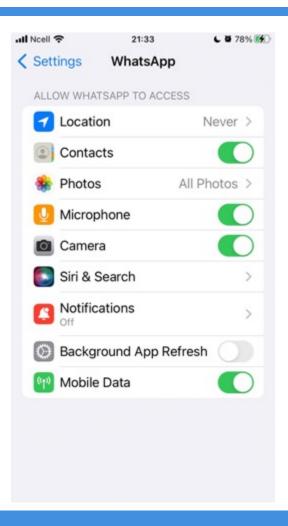
Mast for mobile connectivity
Source: Tim Unwin



Digital literacy and information literacy



- Digital literacy (see also GSMA <u>guide</u>):
 - Knowing how to use hardware effectively
 - The full potential of a phone
 - Screens
 - Keyboards
 - Other uses such as a torch or compass
 - Using software appropriately
 - Learning how to use different apps
 - Understanding and changing the settings
 - Learn how to use social media (Facebook, X/Twitter) and messaging apps (WhatsApp, Signal) safely and securely
- Information literacy:
 - How to know if information is true or not
 - Is the information genuine and authentic?



Discussion







2. The safe use of digital technologies



Source: Tim Unwin



"Using digital tech so you are not at risk of harm or of harming others"



Key elements to remaining safe: knowing the potential harms



- Knowing the potential harms
 - Being tracked
 - Online abuse and harassment
 - Bullying
 - Scams and losing money or documents
 - What we give to companies by using digital
 - If it seems too good to be true, it probably is...
- But don't be too afraid of them
 - Act wisely, safely and securely
 - So that you can truly benefit from digital tech



https://www.oceanpointins.com/ri-business-insurance/cyber-liability-insurance/8-common-hacking-techniques/

Key elements to remaining safe: behaving safely



- Behaving safely online
 - Learn about the tech and apps you want to use
 - Never share anything that could harm you or others
 - Try not to provoke others
 - Don't let yourself be persuaded to join an app/platform if you don't want to, or are unsure about it
 - Don't write or say something online that you would not say to someone's face
 - Don't click on a website link you aren't sure about
 - Check link begins with "https" rather than just "http"
 - Always try to protect the most vulnerable (e.g. children)
 - Beware of "deep fakes": they are not what they appear to be



Source: Tim Unwin

Key elements to remaining safe: technical



- Always report (to app owners and police/authorities) as soon as you can:
 - Phishing: tricking you to do something wrong
 - Never click a link you are unsure of
 - Hacking: compromising a digital system
 - Scams: many varieties of fraud often to access your money, documents or identity
 - Watch out for scams using QR (Quick Response) codes
- Authentication
 - Passwords (keep them complex and unique for each app)
 - Longer than 10 characters and using numbers, symbols, and upperand lower-case letters
 - Biometric authentication (fingerprints, face)
 - Multi-factor (several pieces of evidence)
 - Device recognition (securing your devices from malicious actors)
 - Be sure you know who you are really interacting with online or on social media



Top tips when you begin using mobile phones: always do these



- "Factory reset" a second-hand phone that you receive or give. This will erase any existing information/data on it.
- Keep your apps and operating systems updated with the latest versions
- Only ask someone you really trust to help set your SIM card settings or add money to an account
- Never share your passwords (and use strong ones)
- Get a physical case and screen protector for your phone
- Minimise the amount of personal information you keep on your phone in case it is stolen or lost.



Source: Tim Unwin

Remember the cultural contexts where you use digital tech



- Know the local cultural and legal contexts where you are living as a migrant
- In some countries it is wise not to take photos of:
 - Government buildings and military sites
 - Aircraft or airports
 - Incidents such as accidents
- Remember to respect other people's privacy and don't take photos of them without permission
 - Especially women and families
- Keep your selfies to yourself



Migrant labour in Dubai: Source: TimUnwin

Discussion







3. Using digital tech wisely



Source: Tim Unwin



"Using digital tech with good judgement and knowledge"



Key elements to wise use of digital tech: what to do



- Do use it productively for what you want to use it for
 - and not for what companies or governments want you to use it for
- Do be very careful about what you post online
- Do learn properly how to use the tech and apps you have
 - Read the terms and conditions
 - Adjust the settings
- Do remember that everything "posted" remains online somewhere for ever
- Do be thoughtful and polite on social media
- Do take time away from digital tech
- Do think about creating multiple identities/e-mails (with a separate one for purchases)
 - And keeping a "clean" phone for emergencies



Key elements to wise use of digital tech: what not to do



- Don't post anything you would not want everyone to see
 - Who can see what you post?
 - Check privacy settings
 - Never post when you are upset or distressed
- Don't ever respond to messages/links you do not trust
 - Especially those pretending to be from your bank
- Don't waste too much time on
 - Social media
 - Gaming online
 - Online gambling
 - Digital violence
- Don't waste money
 - As with TikTok gifting
- Don't take risks through using digital tech
 - As with crypto currency investments
- Don't respond to provocation if you suffer a "troll" attack
 - It will only make it worse



Source: Tim Unwin

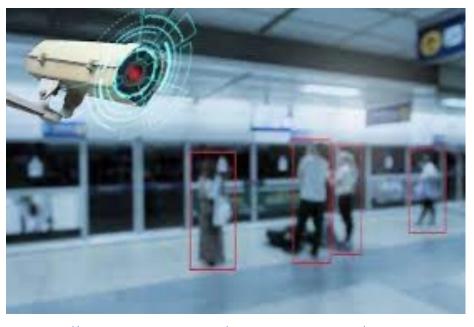
Discussion







4. The secure use of digital technologies



https://www.smartcitiesworld.net/ai-and-machine-learning/ai-and-machine-learning/ai-expands-capabilities-of-surveillance-and-public-safety-tech



"Using digital tech securely and with privacy"

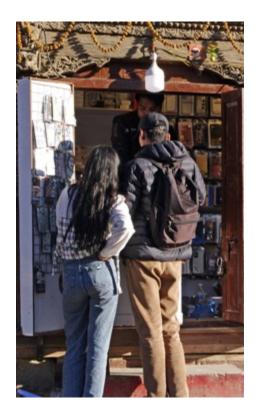


https://www.telegraph.co.uk/news/2018/11/06/chinesesurveillance-grows-stronger-technology-can-recognise/

Key elements to secure use of digital tech – social behaviours



- Being private online
 - Remember that what you post on the Internet is there forever
 - Only post if you are sure that you and related others are happy with this
 - Never share your passwords with anyone
 - Don't ever share a One-Time Password (OTP) with anyone
 - Whenever possible reject all cookies when visiting websites.
- Secure and private from whom?
 - Governments
 - Remember mobile devices can be used for surveillance
 - Companies
 - Remember that most social media companies make their money from the data you give them for free!
 - Other people
 - Some are eager to exploit you through digital tech



Source: Tim Unwin

Key elements to secure use of digital tech: practical matters



- Keep your software as up-to-date as possible
 - The latest versions of apps usually improve security
- Turn off as many cookies (permissions) as possible
 - Only accept necessary cookies (or reject all)
 - So you don't share all you do online with organisations that you don't want to
- Thing about using free Virtual Private
 Networks (VPNs) to access the Internet
 - These help to hide a user's digital location and identity and makes them anonymous



Source: Tim Unwin

Discussion







Conclusions: think about



Source: Tim Unwin



- is it safe?
- is it wise?
- is it secure?



Final reminders: being safe, wise and secure



What to do



- Learn about how to use your digital tech
- Create robust passwords
- Use multi-factor authentication
- Regularly update your apps and operating systems
- Be thoughtful and polite on social media
- Take time away from digital tech

What not to do



- Don't share your passwords
- Don't become addicted to digital tech
- Don't respond to messages you do not trust
- Don't waste money you can't afford on digital tech and social media
- Don't send money or documents online to someone you don't know
- Don't share anything online you would not want everyone to see

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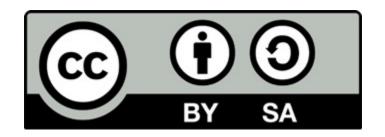












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