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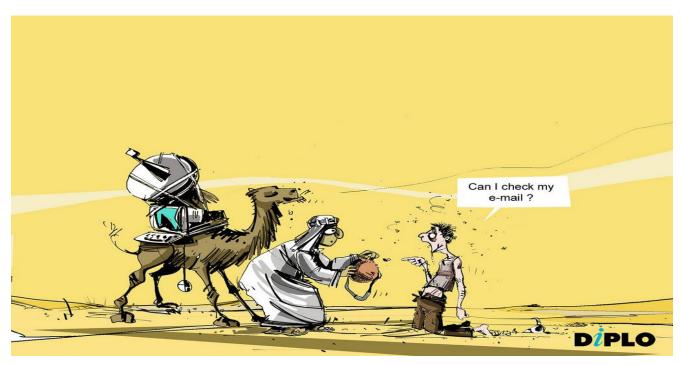
Revisiting digitalisation and development

Development and technology have been the twins driving progress for centuries. Often, the advancement of technology has led to greater overall societal development. The track record of tech-driven progress is impressive in many aspects; from improving our well-being to countless innovations and economic growth.

For decades, technical assistance has been a synonym for development assistance. Against this background, digital technology has been welcomed as a new tool for progress and development with much enthusiasm.

However, technology has also had many negative consequences: it increased digital divides between countries, regions, and genders; created inequalities; and tore apart the social and cultural fabric worldwide due to hate speech and misinformation.

Today, we should **take a step back, reflect and prepare for the future acceleration of tech developments.** This issue of the SDC Digital Watch Newsletter aims to contribute to this discussion by presenting the evolution of digitalisation for development over the last 3 decades, and by posing five key questions for the development community to address in 2022 and beyond.



SDC Digital Watch Newsletter is prepared 4 times a year by DiploFoundation. It harnesses insights from comprehensive research, training and analysis on digitalisation and society conducted by Diplo and the Geneva Internet Platform (GIP).

Consult additional resources on <u>training opportunities</u>, research on <u>digitalisation</u> and <u>AI</u>, <u>International</u> <u>Geneva</u>, and many other topics. If you need more information on Diplo and the GIP or if you have suggestions for topics coverage by SDC Digital Watch Newsletter let us know at <u>diplo@diplomacy.edu</u>.

Evolution of digitalisation and development nexus



2000s During the Internet phase connectivity was put in the spotlight with its two main aspects: technical access and affordability. Technical access to international networks was facilitated mainly via submarine cables which started being deployed especially around the African continent. As submarine cables increased in number and capacity, the main challenge was bringing access to rural and remote communities – the so-called 'last mile connectivity'. The cabling of all countries, especially with fibre-optics, saw high costs in continents with large territories and long distances, such as Africa. Mobile phones improved access for remote and rural areas. Yet, access costs are still a problem today.

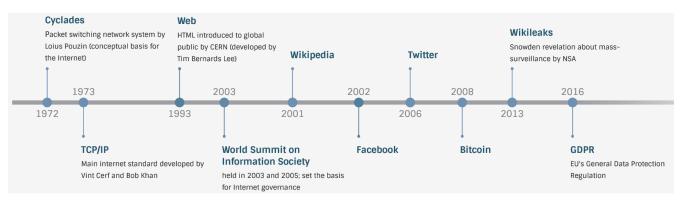
On the international level, the World Summit on the Information Society (WSIS) introduced the use of digital technologies in society via e-education, e-trade, e-health, e-government in 2003-2005, paving the way for the digitalisation phase.

2010s Digitalisation

During **the digitalisation phase** technology started becoming mainstream in core development activities; from poverty reduction to economic growth and capacity development. Critical voices started emerging as an answer to the predominant techno-optimistic view on the development of the time. In 2016, the World Bank published a landmark report on <u>Digital Dividends</u> arguing that, in spite of its strong potential, digital technology failed to reduce inequalities, improve democracy, and increase productivity.

The report argued that digitalisation's benefits haven't been spreading evenly and rapidly enough to allow true global economic growth. Digital dividends have widened particularly with the fast growth of tech platforms and AI in the developed world. China became the key provider of digital and networking technologies in Africa. Homegrown digital finance services such as <u>MPesa</u> started emerging in developing countries.

Digital Milestones



Source: DiploFoundation (2022)



1. Should development support focus on affordable access for the 'next billion' or the 'bottom' billion? It is estimated that ¹/₃ of the world population (2.7 billion) is not connected as of early 2021. The next billion are easier to connect, as they are likely to be closer to networks and have basic digital literacy skills compared to the bottom billion who will certainly sink further down the poverty line without digital inclusion.

This choice between supporting the 'next' or the 'bottom' billion of global citizens will have far-reaching consequences on poverty reduction and realisation of the sustainable development goals (SDGs), especially SDG 1 on poverty reduction.

Continents	% population	in million people
Asia	36.2	1565
Europe	11.8	98
Africa	56.8	7794
Latin America / Carib.	24.4	1613
North America	6.1	22
Middle East	25.1	66
Oceania / Australia	30.1	13

Survey of the population without digital access

Source: Internet World Stats

2. How to evolve digitalisation from a 'shy' aspect of Agenda 2030 to the cross-cutting and invisible '<u>18th SDG</u>'? As illustrated in <u>this</u> SDG/digital mapping, meeting the 2030 SDGs increasingly depends on how digital technology is being deployed. Digitalisation and Agenda 2030 must progress at different speeds.

Some SDGs are 'more digital' than others, such as SDG 4 (Quality Education) and SDG 3 (Good Health and Well-being) which have a correlation of 73% and 71% with digital technology according to a <u>study</u> by Huawei and GeSI. However, the COVID-19 pandemic has <u>increased dependence</u> on digital networks across all SDGs. In 2022, the development communities must sync this changing reality with their plans, projects, and priorities.

3. How to make 'a rising tide lifts all boats'

approach to digitalisation more harmonised? While it is certain that digital technology has improved the conditions of many, it is also certain that some boats have raised much faster. Thus, digitalisation has become one of the main engines of inequalities (SDG 10) from local to global level. As an illustration, the market capitalisation of Apple (3 trillion USD) is higher than the total GDP of African continents (in the range of 2.6 trillion USD). <u>See more comparisons</u> (*open on a private device due to firewall*). Ensuring that the benefits of digital technologies are more widely spread remains a challenge for 2022 and beyond.

4. How to prevent the widening of digital gaps with advancements in Al, big data, quantum computing, and other frontier technologies? Many developing countries do not have the technical, economic, institutional, and human capacities to keep up with the latest developments. As frontier technologies are much more demanding in terms of hardware, processing power, and expertise, it is likely that the gap between developed and developing countries will become wider than with web technologies.

5. How to minimise the negative impact on development assistance of the emerging 'digital cold war' between the USA and China? As tensions between the two digital powers accelerate, developing countries will face increasingly complex situations of having to choose between competing technologies, standards, and approaches provided by the two countries.

The first glimpse of this tension was the Trump administration's request for developing countries not to use Huawei technologies for their 5G networks. In the context of these geopolitical tensions, multilateral solutions for cybersecurity, standards, and digital governance will become even more important for small and developing countries.

Updates on Digitalisation and Development



Migration: Gathering, managing and protecting data got in the focus. UNHCR and the World Bank established the Joint Data Center on Forced Displacement (JDC). The JDC Strategy for 2021-2023 describes how the Center prioritises its engagements to improve the protection and well-being of populations affected by forced displacement through better data and evidence. A growing concern is about mismanagement of data including alleged cases from <u>Canada</u>, <u>Australia</u>, <u>UK</u> and <u>UNHCR</u>.

Digital health: More calls for <u>digital health</u> <u>inclusion</u>; discussions advance on implementing the WHO's <u>Global Strategy on Digital Health</u>; as innovation in digital tech <u>continues</u>, authorities pay more attention to <u>regulatory issues</u>; the GIP hosted a debate on <u>health and AL</u>

Water management: <u>Governmental funds</u> <u>allocated</u> to water technology research; <u>IGOs</u> <u>partner with tech companies</u> to leverage water technology solutions.

Environment: The <u>Policy Network on Environment</u> of the Internet Governance Forum published a study on digitalisation and the environment. The environment has been one of the main tracks of the

Forthcoming Events

25 January: **Prediction for digital developments in 2022** - join the discussion on main trends in digital development, cybersecurity, e-commerce and other governance and policy issues. <u>Register</u>.

1 February: **Geneva Engage Award** event will address Geneva's footprint in governance, humanitarian, and development issues. We will assess how Geneva appears in web searches in other regions. <u>Register.</u>

3 February: **Digital developments in January** (DW Newsletter). If you wish to come to the bottom of the main trends in digital policy each month, subscribe to our monthly and weekly GIP *Digital Watch* newsletters - we follow the main trends and zoom out on what matters. <u>Subscribe</u>.

March: **Report on the digital foreign policy of African countries** will be presented by Diplo. We look into participation of African countries in global <u>Internet Governance Forum</u>, held in December. The Geneva Internet Platform organised a <u>debate</u> on digitalisation powering environmental protection.

Inequalities: recurring acknowledgements that digital inequalities – widened by the pandemic – persist across geography, income, and gender; <u>statistics</u> show a connectivity 'grand canyon': 96% of the 2.9 billion people still offline live in the developing world; digital inequalities also among critical short- and medium-term threats to the world.

An interplay between technology and development was in the focus of the debate hosted by the GIP on 15 December 2021. Diplomats and tech experts addressed the following questions: digital innovation, data management, algorithms for healthcare, education, logistics for urban development, climate change, women's empowerment, digital divide and risks of widening social inequalities.

You can <u>follow this debate</u> as well as other relevant resources on technology and development at <u>the GIP *Digital Watch*</u>.



policy processes and negotiations on cybersecurity, data protection and digital governance.

Diplo will provide **4 workshops for SDC staff** on digitalisation and development:

- 27 January: Digitalisation definitions and principles
- 10 February: Digital ecosystem and conceptual clarity
- 17 February: Digitalisation our priorities
- *3 March:* Digitalisation how to implement

For more info, please contact the SDC Focal point Digitalization (<u>sandra.gentizon@eda.admin.ch</u>).