



ITU, Europe, and Covid-19 impact on Telecom/ICT Capacity Building

Europe region presentation

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ITU, Europe, and Covid-19 impact on Telecom/ICT Capacity Building (part 1)

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Impact of Covid-19 on job and skills demand

1

Massive disruption to labour markets around the world - according to the International Labour Organization (ILO), 14 % of working hours were lost globally in the second quarter of 2020 when compared to the last quarter of 2019. (480 milion full-time jobs)

2

The statistics published by the European Commission shows, that the employment rate for people aged 20 to 64 was 72.6 % in the fourth quarter of 2020, 0.6 percentage points lower than a year earlier.

3

In Europe unmet demand for employment fluctuated the most (+1.0 p.p.) between the first and second quarters of 2020, when unemployment increased by 0.1 p.p. and the share of people available to work but not looking increased by 1.0 p.p.



Short term consequences for skills demand

Decrease of job vacancies



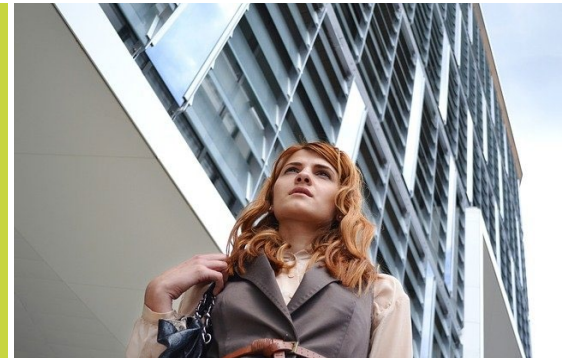
Analysis of job vacancy postings as a partial indicator of the impact of COVID-19 on skills demand showed that by early May, the total volume of online job vacancies had fallen by over 50%

Demand for specific skills

The demand for specific skills in the healthcare sector and in logistics increased



Increased gaps



Young people, women, less educated (lower waged occupations) have been hit particularly hard by the coronavirus crisis, which requires targeted interventions.



Long term consequences for skills demand

New occupations such as smart home designers, who integrate the Internet of Things into home design, and algorithm bias checkers, who ensure that algorithms do not lead to discriminatory decisions, are emerging.



The change in labor demand over the next decade will require a major retraining effort.

Even among workers who keep their jobs, the tasks they perform will shift

Across the globe, growing demand for automation, AI, and digitization will spur demand for a wide range of workers such as robot repair technicians and 3-D printing engineers.



Nearly all job growth may occur in high-wage jobs, while for the first time, the share of employment in low-wage jobs may decline.

Larger shifts in employment and occupations after the pandemic than was estimated before - workers may need to switch to a different occupation to remain employed.

Response of Europe



"The best investment in our future is the investment in our people. Skills and education drive Europe's competitiveness and innovation. But Europe is not yet fully ready. I will ensure that we use all the tools and funds at our disposal to redress this balance."

President Von der Leyen

"Everyone has the right to quality and inclusive education, training and lifelong learning in order to maintain and acquire skills that enable them to participate fully in society and manage successfully transitions in the labour market."

Principle 1 of the European Pillar of Social Rights



Response of Europe

Actions taken by the EU

Update of the European Skills Agenda, a five-year plan focused on the development of better skills and putting them to use.

Building resilience to react to crises, based on the lessons learnt during the COVID-19 pandemic as well as access to education, training and lifelong learning

5 building blocks: collective commitment of all stakeholders to working together, a clear strategy to ensure that skills lead to jobs, financial means to foster investment in skills, the development of an environment where lifelong learning is the norm and ambitious objectives for upskilling and reskilling to be achieved within the next 5 years.



Goals

Skills Agenda skills objectives

By 2025, 230 million adults should have at least basic digital skills, which covers 70% of the adult population in the EU

By 2025, 2 million jobseekers or one in five should have recent learning experience. This corresponds to around 40 million learning activities for this group over the five-year period.

By 2025, 120 million adults in the EU should participate in learning every year. This corresponds to 50% of the adult population and around 540 million training activities for this group over the five-year period.



ITU, Europe, and Covid-19 impact on Telecom/ICT Capacity Building (part 2)

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ITU, Europe and Capacity Building in Covid-19 pandemic time

- The **Covid-19** pandemic has interrupted all **face-to-face** trainings worldwide, however affordable **Internet broadband** access on the global scale provided ground for **elearning/online** trainings.
- **ITU** was prepared in advanced for online training
 - **ITU Academy** is the platform for all capacity building activities in all three ITU sectors, ITU-D, ITU-T and ITU-R.
- The main network for capacity building by the ITU through the ITU Academy is the **Centers of Excellence (CoE) network**, which exists around two decades
 - There was **increased appeal for elearning/online** courses during the Covid-19 pandemic time in the past year.



The leading platform for ITU capacity development activities in all times is ITU Academy – and it does its role!

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Upcoming trainings

"ITU, Europe, and Covid-19 impact on Telecom/ICT Capacity Building", 2021

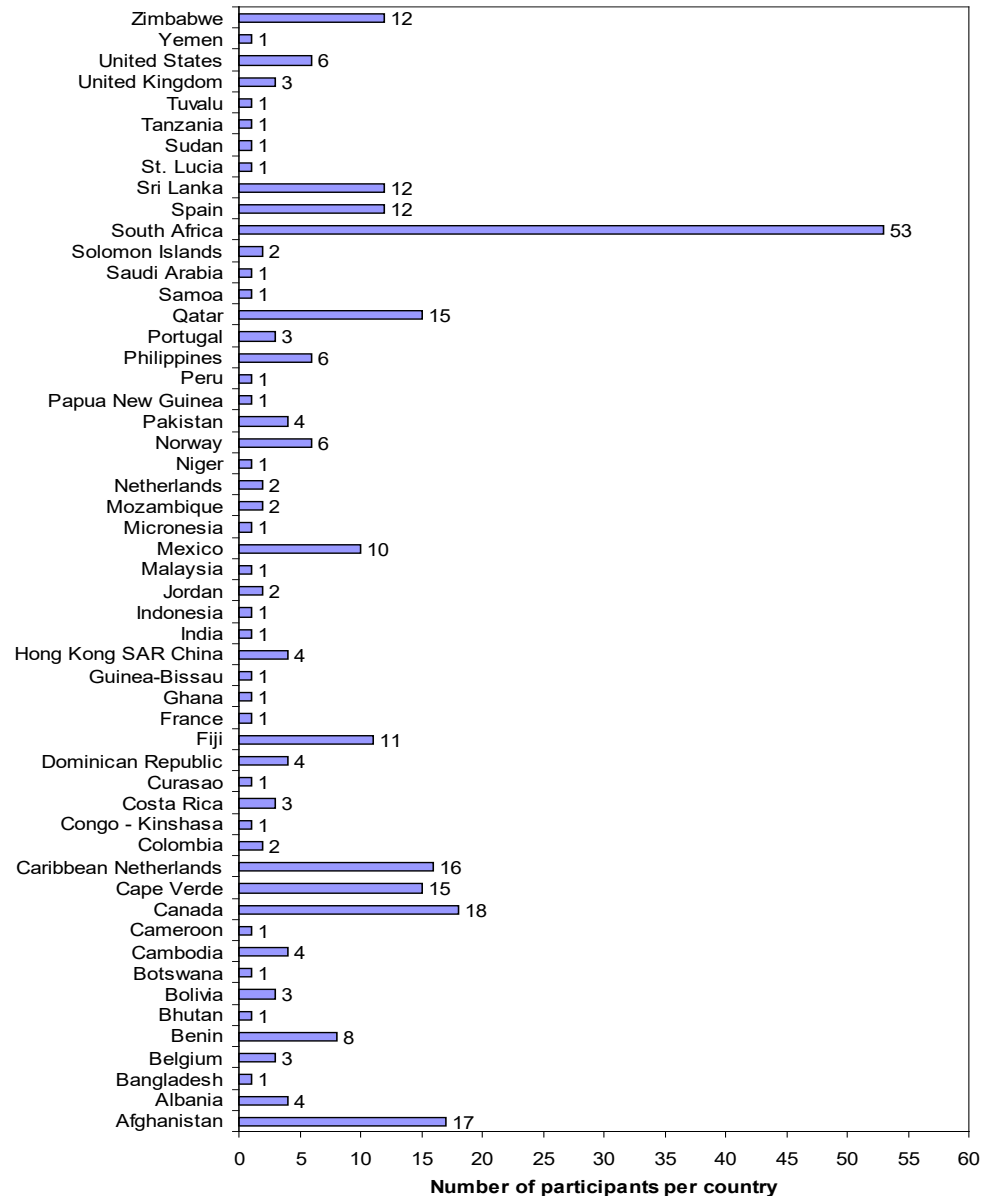


COVID-19 impact on ITU CoE elearning courses (Europe)

Case: Future broadband internet, cloud computing and internet of things (26 May - 22 June 2020)

285 participants from 53 countries

Covid-19 increased the participation in ITU CoE elearning courses since mid 2020.



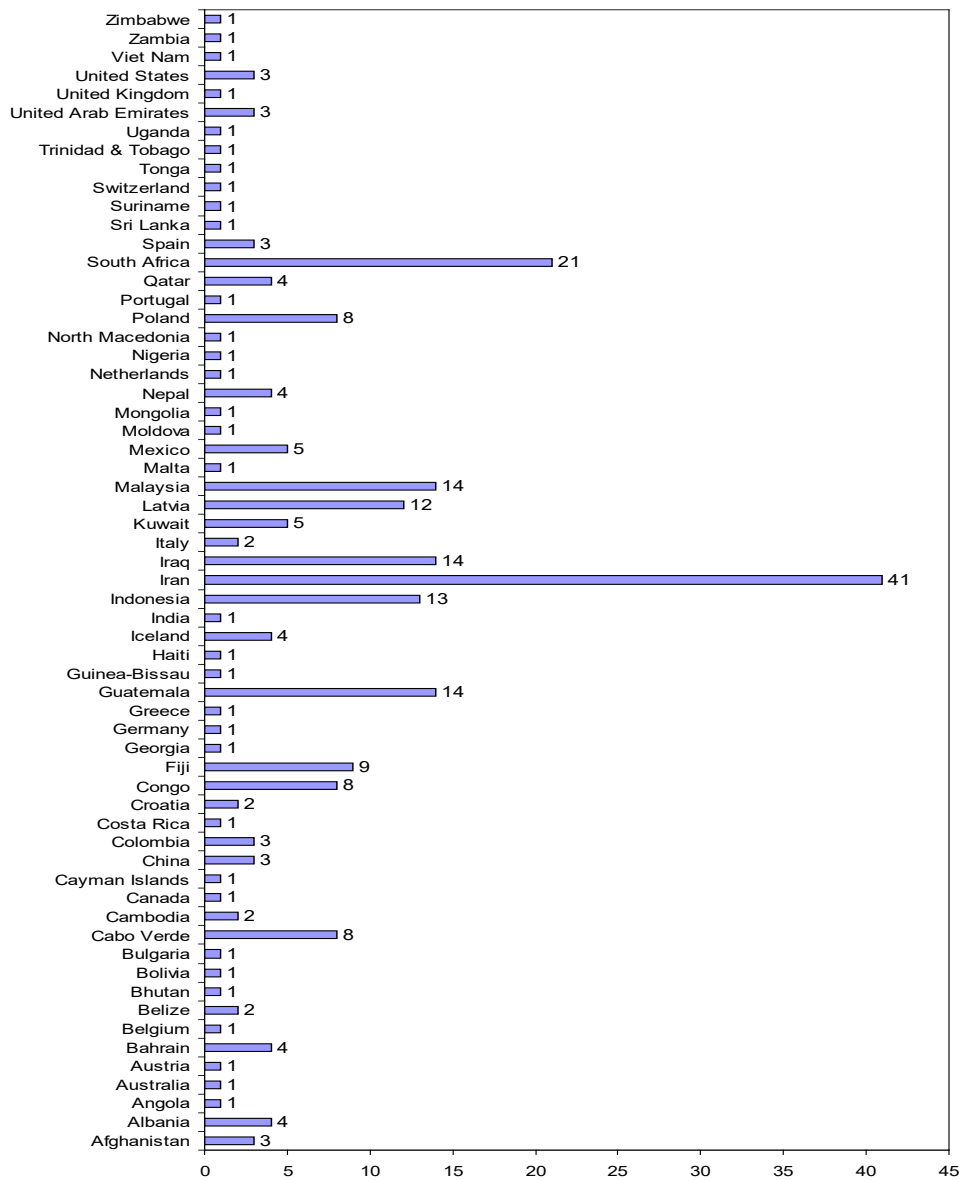


COVID-19 impact on ITU CoE elearning courses (Europe)

Case: Mobile Broadband Internet, 5G and Future Services (17 November - 14 December 2020)

251 participants from 61 countries

Covid-19 increased the participation in ITU CoE elearning courses all year long in 2020.





Some Feedback from Participants in ITU CoE elearning courses

In your opinion, how your organization is benefiting from the knowledge and experience you acquired through this course? *Please explain*

- By the time being IFT is working in the regulation for IoT so, the knowledge will be very useful
- Company can learn the next level of Business
- For my opinion I will share my knowledge from this course to my organization and colleagues to improve more regulation on Broadband Access, Cloud Computing, IoT/OTT/AI/Big Data in the future network.
- Gained insight into the new vistas of ICT created by digital transformation and cutting-edge technologies
- It will equip us with the necessary knowledge when discussing about the future of telecoms and ISPs since we ourselves work on that industry.
- We are rolling out 5G i think the course clarified use cases very well.
- Yes, we will have to create our own internal training course to spread this information to other people in our organisation.
- Skills and competencies in Internet technologies and services will benefit regulation and public policies for this subject area. Governance of Internet will also get a very welcome upgrade in terms of overall knowledge, including AI, IoT and future networks.
- I think most of the material are going to be beneficial for my job

Each participant and organization has its specific benefits from a given ITU course.



ITU e-learning Feedback from Participants

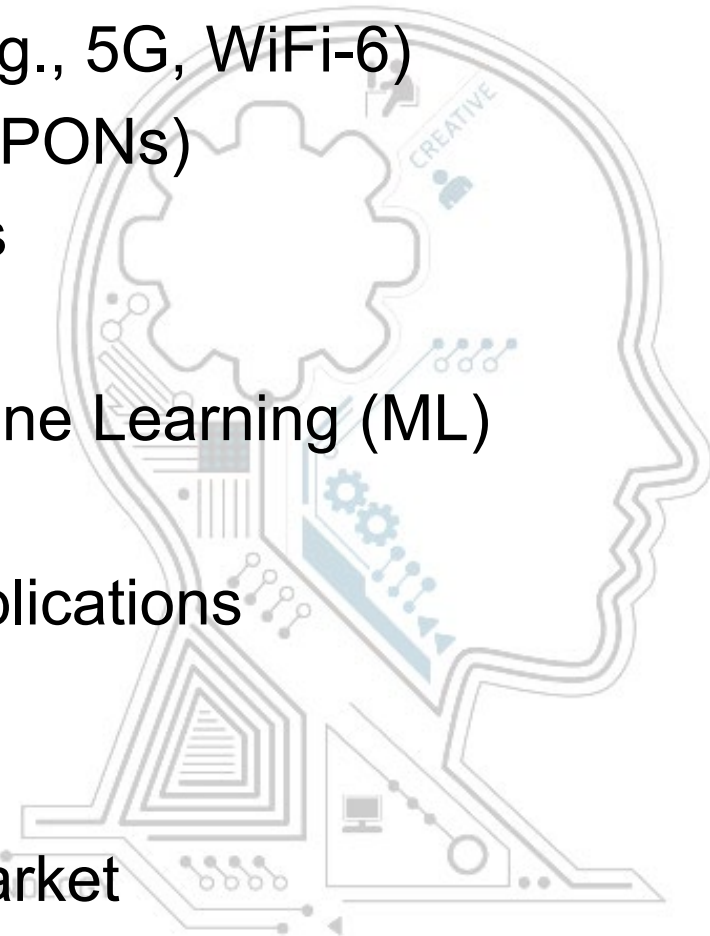
- IT WAS VERY POSITIVE SINCE THE TOPICS WERE UP TO DATE
- Through the knowledge and experience acquired through this training it has helped broaden my understanding about the future of broadband internet, cloud computing and internet of things. And since I am working with the submarine cable company in my country. It has helped me to understand what to expect in the future and help with sound decision making for our organization.
- Up to par with developments of new technologies and how our current Network status can handled new Technologies at the same maintain the resiliency and Network availability at all times.
- By having more futuristic and strategic architecture and framework proposals to have in the network to provide novel services to end customers
- Be able to look at technology from a framework perspective, and look at better ways of exploiting the technology within our organization
- Yes, because the course is very complete, it covers almost all the technologies that are actually used and it covers also many aspects about the regulation sector, that are very important and useful for my organization.
- Knowing what technology is to com and to start preparing for them
- the couse was very good
- my organization is asking questions to companies that provide equipment based on information we got in this course for improvement of service
- Specially interesting for people who works in the area.
- With the knowledge acquired in this course, I will have a clearer vision of how the telecommunications service will evolve in the near future and I will be better prepared to discuss and participate in the implementation of projects in the organization.

Each participant and organization has its specific benefits from a given ITU course.



Hot topics for telecom/ICT capacity building in the Europe region?

- Wireless and mobile broadband (e.g., 5G, WiFi-6)
- Fixed broadband access (e.g., NG-PONs)
- Internet of Things (IoT) applications
- Cloud Computing (edge, native)
- Artificial Intelligence (AI) and Machine Learning (ML)
- Big data/IoT/AI applications
- Telecom and OTT services and applications
- QoS (Quality of Service)
- Cybersecurity
- Internet Governance and Digital Market





Summary



- **ITU CoE network in Europe** region in the last decade was very successful in capacity building for students from all countries and regions worldwide
 - Because the telecom/ICT world is global, there are **no borders** in Internet and other telecom networks – they are all **connected**.
- What was impact of Covid-19 on appeal for trainings?
 - The **face-to-face** trainings (and also meeting) **stopped**.
 - But...
 - The **online** trainings continued and **the appeal** for them has **increased** in the pandemic time... but, why?
 - Well, because people working in telecom/ICTs and related fields have continuing need for life-long learning, considering that the telecom sector is developing fast and everyone wants to have **up-to-date knowledge** and be “**connected**”.



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Thank you for your attention!