



ITU CENTRES OF EXCELLENCE NETWORK  
FOR THE AFRICA REGION

**FINAL REPORT**  
OF THE  
2<sup>ND</sup> STEERING COMMITTEE MEETING

19-20 NOVEMBER 2019

[Dakar, Senegal]

## 1. INTRODUCTION AND OPENING

The 2<sup>nd</sup> Steering Committee Meeting of the ITU Centres of Excellence for Africa for the 2019-2022 cycle was held in Dakar from 19-20 November 2019. The Meeting was organized by the ITU and hosted by Ecole Supérieure Multinationale des Télécommunications (ESMT). It was attended by 37 delegates including Centres of Excellence (CoEs), representatives from Governments hosting CoEs, other ITU Member states, the ITU Secretariat and other agencies. Two CoEs SUPPTIC and NCB did not attend the meeting but SUP'PTIC participated remotely. The list of participants is attached to this report (Annex 1).



The Director General of ESMT, Mr. Adamou Moussa Saley, gave some opening remarks by inviting ITU to provide support to CoEs to fight technological obsolescence as some of the training equipment some Centres have is no longer suitable for a digital era. This could be done through leveraging on ITU's network of partners that could work with CoEs to install state of the art training and laboratory equipment.

Mr Ali Drissa Badiel, Area Representative for the ITU Area Office for West Africa delivered the opening remarks on behalf of the ITU. In his remarks, Mr Badiel thanked the Republic of

Senegal and ESMT for hosting this Steering Committee, and Kenya for having been Chair of the Steering Committee for 2019. He called for a moment of silence in memory of the two ITU staff members the late Marcelino Rassoul Tayob and the late Maygenet Abebe Worku who lost their lives on their way to attend the first meeting of the Centres of Excellence network in Nairobi, Kenya in March this year. He thanked them for their immense contribution to the development of the ITU Centres of Excellence network in Africa. Highlighted the importance of capacity building for the development of the digital economy and society in Africa. He highlighted that CoEs are key in the digital ecosystem as they play an important part to ensure the attainment of the Sustainable Development Goals.

Dr. Isaac Sissoko gave opening remarks on behalf of ARTP and the Ministry of Digital Economy in Senegal, highlighting the importance of capacity building for the ICT sector.

The outgoing Chair of the Steering Committee, Mrs. Patricia Kemei, made some opening remarks by highlighting the urgency and ever growing importance of building capacity in the face of fast changing technologies that threaten to open wide the gap between the technological changes and the knowledge currently held by the players in the sector. In particular she highlighted how knowledge in regulation tends to lag behind the technology that needs to be regulated. She expressed the hope that there would be a meeting of all the Steering Committees for the global CoE network so that they can share experiences and success stories. She ended by wishing the incoming chair the best of luck for the coming year.

## **2. CONFIRMATION OF THE COE STEERING COMMITTEE CHAIR**

Mr Mike Nxele invited the meeting to confirm the Steering Committee Chair nominated by the hosting country as per stipulations of the CoE operational guidelines. The meeting confirmed the chairmanship of Senegal represented by Dr. Isaac Sissoko, Coordonnateur du Centre de Competences, ARTP, and Senegal.

Mr. Nxele recalled the main objectives of the meeting, which are to govern and provide oversight to the CoE network functioning and operations. The Steering Committee meeting provides CoEs the opportunity to present and discuss their activities, exchange experiences, learn from each other and strengthen collaboration. A key outcome of the meeting is the agreed training catalogue for the CoE network in the region for 2020. Dr Isaac Sissoko thanked the meeting for the nomination and chaired the 2<sup>nd</sup> Steering Committee Meeting of the CoE Network for Africa (2019-2022) Cycle.

Mike Nxele further recalled the composition of the Steering Committee of the CoE Network for Africa for the cycle 2019-2022 as follows:

- Centres of Excellence:
  - DBI
  - ESMT
  - ESATIC

- AFRALTI
- NCB
- SUP'PTIC
- Member States: Kenya, Senegal, Cote d'Ivoire
- ITU

Représentatives from Mali, Niger, Sierra Leone, Guinea and Burkina Faso attended the meeting as observers. CISCO also participated in the meeting as a partner of ITU and the CoE network.

### **3. REVIEW OF THE IMPLEMENTATION OF 2019 ACTIVITIES**

#### **Presentation by the outgoing Chair**

The outgoing Chair, Patricia Kemei from Kenya made an overview of the training activities by the Africa CoEs. She also mentioned the Virtual Review meeting for the region which was held on 21<sup>st</sup> August, 2019. She highlighted as a main challenge the low patronage of CoE training and urged CoEs to adopt some innovative ways to market their courses such as using social and digital marketing tools. She also urged more women to participate in ICTs to narrow the gender gap in ICTs. She further urged for stronger collaboration between CoEs and the African Telecommunication Union (ATU).

#### **Presentation by ITU**

Mr Nxele presented an overview of the implementation of CoE activities, both globally and regionally. In his presentation he highlighted that:

- Globally there were 144 planned activities, of which 75 were implemented and 21 are pending. If the pending ones get implemented, globally implementation level would be 65%, with a little under 50 courses unimplemented.
- In Africa, 16 of the planned courses were implemented. If the pending courses are all implemented, Implementation level would be 58%.
- There is an uneven performance by CoEs in Africa, with some performing very well and others not so well.
- The main type of delivery mode is face-to-face and there is a need for more online courses.

Mr Nxele highlighted that low performance within the CoE network is a cause for concern and stated that the idea of introducing virtual mid-term reviews was to try and improve performance by year end. He highlighted that the review in 2020 will be critical for performance assessments for the CoE, and that bad performance may jeopardize the chances of a CoE remaining in the network. He urged the Steering Committee to take a stern

view on this and open a candid discussion regarding the level of delivery of training as this is the forum to air any concerns. The network has a responsibility to the membership to deliver on their training requirements.

Mr Nxele made mention of the commendable performance of ESATIC in their training, which has always been exceptional even in the last cycle. He urged other CoEs to engage ESATIC to find out how they manage to be successful in their training delivery so consistently.

Details of the Africa region CoEs work status is at annex2.

### **Presentations by Centres of Excellence**

The Chair invited the CoEs to present their detailed 2019 activity report, including challenges faced in the implementation of training courses.

**African Advanced Level Telecommunications Institute (AFRALTI), Kenya:** Mr Jonathan Mwakijele, Head, Management, Policy and Regulatory Unit, AFRALTI, made a presentation on behalf of his Centre. He gave a brief history and structure of AFRALTI, its membership, mission, vision, highlighting that it was one of two first Centres of Excellence created by ITU.

Regarding the training activities, Mr. Mwakijele admitted that Afralti had not done well in terms of the numbers of training activities, highlighting the challenges in human resources the institute experienced after the departure of some of its key staff. He emphasized that Afralti is still very active in other courses that happen not to be CoE courses. For example, AFRALTI is very strong in the CISCO training courses and in Fiber Optic, which are unfortunately not part of the CoE courses. He highlighted the impact of charging fees on participation levels in training noting that non-fee paying courses such as ITSO, and other sponsored courses tend to be oversubscribed. He urged a new approach to revenue generation through sponsorships if ITU has the room to accommodate that under the CoE revenue sharing model.

## Implementation status AFRALTI

CoE	Courses planned	Delivery mode	Original dates	New dates	Status
AFRALTI	Digital Broadcasting Content Regulation in a Converged Environment	face-to-face	17-28 June 2019	17-28 June 2019	not implemented
AFRALTI	Digital Broadcasting Masterclass	face-to-face	8-12 July 2019	8-12 July 2019	not implemented
AFRALTI	Spectrum Management Masterclass	face-to-face	5-9 August 2019	18-22 November 2019	not implemented
AFRALTI	Digital Broadcasting Regulation in a Converged Environment	face-to-face	2-13 September 2019	14-18 October 2019	not implemented
AFRALTI	Digital Broadcasting Masterclass	face-to-face	30 September - 4 October 2019	30 September - 4 October 2019	implemented
AFRALTI	Spectrum Economy and Valuation Based on A Case Study of Digital Dividends	face-to-face	4 - 15 November 2019	7-18 October 2019	implemented

**Digital Bridge Institute (DBI), Nigeria:** Engr. Prof. Mohammed Ajiya, President/CEO, DBI, made the presentation on behalf of DBI. He gave a background on DBI, how it was founded, and its mission, vision and values. It was established in 2004 and is entirely owned by the regulator, Nigeria Communications Commission (NCC). DBI has three campuses spread across Nigeria. It operates through a number of partners locally and internationally. DBI presented the experiences of the programs they had run and reinforced the observation that fees tend to be a critical factor. For example, they ran a Cybersecurity course free of charge, as a trial, and it attracted 100 participants. When they tried to run the same course with a fee attached, it attracted one participant. DBI also shared their perspectives regarding participation levels in their courses, stating that not many people outside Nigeria were aware of DBI's offerings. However, those who attended the course evaluated them very highly.

## Implementation status DBI

CoE	Courses planned	Delivery mode	Original dates	New dates	Status
DBI	ICT Applications, Products & Services Using Microsoft Office	blended	6 - 10 May 2019	6 - 10 May 2019	implemented
DBI	ICT Applications, Products & Services Using Microsoft Office	blended	17 - 21 June 2019	17 - 21 June 2019	implemented
DBI	Social Media Management and Digital Marketing (initially a different topic was suggested: E-commerce Solutions for Small and Medium Enterprises)	face-to-face	19 - 23 August 2019	9-13 September 2019	not implemented
DBI	Design and Implementation of Security System using IP Cameras	face-to-face	16 - 20 September	16 - 20 September	not implemented
DBI	Child Online Protection: Consumer Awareness on Cybercrimes	face-to-face	15 -17 October	15 -17 October	implemented
DBI	Emerging Cybercrime Trends: Cybercrime Investigations and Mobile Forensics for Security Intelligence, Investigators & Law Enforcement Officers	face-to-face	7 - 11 October	7 - 11 October	implemented
DBI	Digital Evidence and Cyber Forensics for Judicial Officers, Legal Practitioners & Prosecutors	face-to-face	2-6 November 2019	2-6NOV19 (to 2020)	not implemented
DBI	Information and Cybersecurity Principles and Practices	Online	7 Oct - 15 Nov 2019	7 Oct - 15 Nov 2019	not implemented

**Ecole Supérieure Multinationale des Télécommunications (ESMT), Senegal:** Mr Adamou Moussa Saley, Director General, ESMT, made the presentation on behalf of his organization. He gave a brief profile of the institution, its mission and vision. The main mission of ESMT is to deliver higher education, continuous learning, expert advice and research and innovation in the field of telecommunication and ICT to professionals.

His observations regarding challenges facing CoEs were that in Africa there is a lack of skills for designing pedagogical online courses, and that explains why most of the training is face to face. He also urged for support from ITU to source for grants from partners to assist CoEs, and to use its influence with member organizations such as regulators to invest more in training and supporting their training institutions such as CoEs. He also commented that the fees CoEs charge are not enough to cover their costs and launch them on a path to sustainability. The Chair, representing the Regulator, invited ESMT to engage the regulator and propose how ESMT can provide training that is relevant to the needs of the regulator.

Implementation status ESMT

CoE	Courses planned	Delivery mode	Original dates	New dates	Status
ESMT	Services financiers mobiles (mobile banking / mobile money) et l'inclusion financière	face-to-face	6 - 10 May 2019	6 - 10 May 2019	implemented
ESMT	Informatique de l'audiovisuel : Production et Transport	face-to-face	15-19 July 2019	28 Oct - 1 Nov 2019	not implemented
ESMT	TNT : De la Planification au repliement	face-to-face	21 - 25 October 2019	21 - 25 October 2019	implemented
ESMT	Finance digitale et Inclusion financière en Afrique del'Ouest : Enjeux, défis et Perspectives	face-to-face	9 - 13 December 2019	9 - 13 December 2019	Upcoming
ESMT	Gestion du spectre et régulation des réseaux mobiles LTE	Online	4-30 Novembre 2019	4-30 Novembre 2019	Upcoming
ESMT	Dimensionnement de la capacité et gestion du CapEx des réseaux mobiles	Online	2-21 Décembre 2019	2-21 Décembre 2019	Upcoming



**Ecole Supérieure Africaine des Technologies de l'Information et de la Communication (ESATIC), Cote d'Ivoire** : Professor Adama Konate, Director General, ESATIC, made the presentation on behalf of his institution. ESATIC has three cycles of training – Masters Programmes, Masters Programmes in specialized fields and capacity building in a number of different areas. Under the CoE, ESATIC operates in three areas of Cybersecurity Wireless and Fixed Broadband and Internet of Things. They planned six courses and have delivered all of them. They also capture information on trainees by gender. A number of CoEs congratulated ESATIC and requested that they share their experience and success model in training. ESATIC highlighted the importance of gaining trust with the market and finding out what exactly the market wants. For example, they have direct engagements with the operators and plan three meetings, at the beginning to get what the operators want (which is usually around November); they another meeting middle of the year, to review whether they are happy with the training, and then an end of year evaluation. They also engage Associations such as the National Union of mobile operators, the Association of Human Resources Directors. This way they get to know the training to provide.

#### Implementation status ESATIC

CoE	Courses planned	Delivery mode	Original dates	New dates	Status
ESATIC	Gestion des Risques en Entreprise: Risques relatifs à la Gestion des Projets, à la Sécurité des Systèmes d'Information et à la Protection des Données à Caractère Personnel	face-to-face	20-24 May 2019	20-24 May 2019	implemented
ESATIC	Internet des objets (IoT) : normes, écosystème et planification des réseaux	face-to-face	11-14 June 2019	11-14 June 2019	implemented
ESATIC	Conception des réseaux d'accès optiques	face-to-face	22-29 July 2019	22-29 July 2019	implemented
ESATIC	Sécurité des applications d'Internet et de Mobile Banking	face-to-face	9-13 September	9-13 September	implemented
ESATIC	Evolution vers la 5G: Principes techniques et nouvelles oportunités économiques	face-to-face	21-25 October	21-25 October	implemented

<b>ESATIC</b>	Conception et Développement d'application pour les cas d'usages IoT (langage de programmation spécifique et protocole de communication)	face-to-face	18-21 November	18-21 November	Upcoming
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**Ecole Nationale Supérieure des Postes, des Télécommunications et des TIC (SUP'PTIC):**

Mr/s Anne Chantal Mvogo Née Ngondji, Chief of Division for Research and Cooperation, SUP'PTIC, made the presentation remotely on behalf of her institution. She apologized for being unable to attend as the DG was away in Sham Al Sheik attending the ITU Radio Assembly and by the time he returned there was no time to obtain the necessary authorisations for travel. She presented the history of the institution, which is now 50 years old, its evolution over three phases from a national telecoms training centre to the postal and ICT institution it is now. They have three campus, two in Yaoundé, and one in the South West, Anglophone part of the country. They have conferred 7600 degrees since inception and have a business incubator. They are also an international certification centre for CISCO and Huawei. SUPPTIC is a CoE in three domains namely Digital Economy Innovation & Entrepreneurship, and Wireless and Fixed Broadband. Regarding implementation of training, SUPPTIC has delivered three out of the six courses planned. They have cited cancellation of training by the administration, raising the comment whether SUPPTIC targets only the administration for its courses.

Implementation status SUPPTIC

CoE	Courses planned	Delivery mode	Original dates	New dates	Status
<b>SUP'PTIC</b>	Entreprenariat et Innovation (entrepreneurship and Innovation)	face-to-face	11-13 June 2019	11-13 June 2019	implemented
<b>SUP'PTIC</b>	Théorie générale en entreprenariat (Introduction to entrepreneurship)	Online	1-31 July 2019	1-30 Nov 2019	not implemented
<b>SUP'PTIC</b>	Qualité d'un système large bande sans fil (Wireless Broadband System Quality)	face-to-face	16-20 September	16-20 September	implemented

<b>SUP'PTIC</b>	Internet des objets et Economie numérique (IoT and Digital Economy)	face-to-face	9-13 September	9-13 September	implemented
<b>SUP'PTIC</b>	Enjeux techniques et juridiques du large bande fixe et mobile	face-to-face	15-18 October	15-18 October	not implemented
<b>SUP'PTIC</b>	Quelle régulation pour l'économie numérique?	face-to-face	28-31 October	28-31 October	not implemented

**National Computer Board (NCB), Mauritius:** Dr Kaleem Usmani, Head of Computer Emergency Response Team of Mauritius (CERT-MU), had indicated a desire to participate remotely. However, all attempts to raise him were not successful. However, it is on record that NCB planned to implement two courses and did not implement any of them

NCB

Implementation status NCB

CoE	Courses planned	Delivery mode	Original dates	New dates	Status
<b>NCB</b>	Cybersecurity Policy and Strategy	face-to-face	6-8 August	6-8 August	not implemented
<b>NCB</b>	Cybersecurity Risk Management	face-to-face	17-18 October	17-18 October	not implemented

All presentations made are available on the website: <http://academy.itu.int>

The following issues were raised during the discussions:

- Centres of Excellence need to be creative in marketing their courses. They need to use digital marketing and social marketing to reach out to more clients. They also need to develop self-paced courses, MOOCs, and to introduce recorded lectures and videos and run webinars;
- CoEs expressed the need for support from ITU and other partners in developing online courses;
- CoEs must approach clients such as operators and regulators and propose to them how the CoEs can offer training solutions to their clients training needs in the face of rapidly changing technologies;
- Training fees seems to be a real challenge for the African market. Low training fees are not sustainable for the CoEs yet at the same time training fees seem to affect participation levels. There is an imperative to explore other options of delivering courses, such as sponsorships. ITU was urged to helping in this respect. The example

of the ITSO model where the Training institution receives payment to cover costs was cited;

- In order to remain relevant and updated, Train the Trainer programs for staff of CoEs need to be arranged, especially in new technologies. Examples were cited of previous assistance from ITU rendered through ICTP for Wireless Networking and the program with the Korea Communications Commission (KCC), South Korea;
- ITU should develop a more dynamic framework for CoEs to collaborate and exchange experiences. In this respect, a global meeting for all CoEs was proposed;
- ITU needs to develop a database of experts and share this with CoEs;
- ITU should play an advocacy role with partners and regulators so that they can help subsidize training courses or sponsor them fully. This could be in the area of use of Universal Service funds for training purposes;
- CoEs should also target Executives and Board members in the training they run, as they are the decision makers when it comes to training matters;
- CoEs should de-localize training away from the institutions to the market they serve. Training should be organized for countries close to each other to minimize costs. This point has been discussed before in previous Steering Committee meetings, but needs to be implemented;
- CoEs need to establish their relevance with regional bodies such as the AU, ATU, ECA, EAC, WATRA and attend their meetings in order to know their training needs and respond to them.

#### **4. DISCUSSION ON STRATEGIC AND OPERATIONAL ISSUES RELATED TO THE IMPLEMENTATION OF THE COE NETWORK ACTIVITIES**

Mr Nxele of ITU presented a number of strategic and operational issues related to the global CoE network performance and implementation. These included:

- Issues related to the performance of some of the CoEs and how to address them
- The possibility of phasing out non-performing CoEs
- The study on the assessment of the global ITU capacity development activities to be undertaken in 2020. CoEs may be consulted by the experts carrying out this study.
- A global assessment of the current ITU capacity development activities, including the CoE network
- Operational issues related to the implementation of training, including the use of the ITU Academy

#### **5. TRAINING PLAN 2020**

Each CoE made a presentation on the training plans for 2020, including details on the content, expected target audience and price.

## AFRALTI

Afralti plans to deliver six courses in 2020 as shown below

Course	Dates	Mode	Location	Price
Digital Broadcasting Content Regulation in a Converged Environment	3rd-14th February 2020	Face-to-face	Nairobi, Kenya	1,800
Radio Frequency Spectrum Economy and Market Valuation	2nd-13th March 2020	Face-to-face	Nairobi, Kenya	1,800
Digital Broadcasting Masterclass	4th-15th May 2020	Face-to-face	Nairobi, Kenya	1,200
Spectrum Management Masterclass	6th-17th July 2020	Face-to-face	Nairobi, Kenya	1,200
Radio Frequency Spectrum Economy and Market Valuation	7th-18th September 2020	Face-to-face	Nairobi, Kenya	1,800
Digital Broadcasting Regulation in a Converged Environment	2nd-13th November 2020	Face-to-face	Nairobi, Kenya	1,800

## DBI

DBI plans to run 8 courses in the three areas of Cybersecurity (4), ICT Applications (2) and Entrepreneurship and Innovation (2). DBI also proposed to offer a number of courses in eGovernment in addition to the list below.

S/N	Course Title	Duration	Dates	Mode of Training	Course Fee (Per Participant in USD)	Target Audience
1	IC3 Digital Literacy	5 days	May 11 - 15	Blended	100	youth, public servants & entrepreneurs
2	ICT Applications, Products & Services Using Microsoft Office (Microsoft Office Specialist)	5 days	June 22 - 26	Blended	100	youth, public servants & entrepreneurs

2<sup>ND</sup> STEERING COMMITTEE MEETING FOR AFRICA REGION

2019

3	Digital Evidence and Cyber Forensics for Judicial Officers, Investigators, Legal Practitioners & Prosecutors	5 days	Nov. 2 - 6	Face-to-Face	250	Judicial Officers & Legal practitioners
4	Social Media Management and Digital Marketing	5 days	August 10 - 14	Face-to-Face	100	youth and entrepreneurs
5	Developing Web-based Applications	5 days	Sept 21 - 25	Face-to-Face	100	youth and entrepreneurs
6	Child Online Protection: Consumer Awareness on Cybercrimes (with support from GSMA)	3 days	October 20-21	Face-to-Face	150	Regulators and Policy makers
7	Information and Cybersecurity Principles and Practices	4 weeks	October 5 - 30	Online	100	Security personnel
8	Emerging Cybercrime Trends: Cybercrime Investigations and Mobile Forensics for Security Intelligence, Investigators and Law Enforcement Officers	5 days	Nov 9 - 13	Face-to-Face	250	Security personnel, Law Enforcement & Intelligence Agencies

**ESATIC**

ESATIC plan to run seven courses in 2020, six of them Face to Face and one online. The online course will run for four weeks. The training plan is as the table below:

S/N	Course Title	Duration	Dates	No of Participants	Mode of Training	Course Fee (Per Participant in USD)
1	Management de la Sécurité des Systèmes d'Information	5 days	24-28 février 2020	20	Face-to-Face	860

2	Conception des réseaux d'accès Optiques	5 days	23-27 mars 2020	20	Face-to-Face	860
3	Comprendre l'Internet des Objets (IoT): Principes, Normes, Ecosystème et opportunités économiques	5 days	20-25 avril 2020	20	Face-to-Face	860
4	Sécurité des applications d'Internet et de Mobile Banking	5 days	25-29 mai 2020	20	Face-to-Face	860
5	Evolution vers la 5G: Principes techniques et nouvelles opportunités économiques	5 days	22-26 juin 2020	20	Face-to-Face	860
6	Les Systèmes embarqués pour IoT	5 days	20-24 juillet 2020	20	Face-to-Face	860
7	La protection des données à caractère personnel	4 weeks	1-28 septembre 2020	30	online	150

## ESMT

ESMT plan to run seven courses in 2020. Five of the courses will be Face to Face and two online. The online course will run for four weeks. The training plan is as the table below:

### Face-to-face courses

No	Training course topic	Dates	Venue	Training fee
1	Montage et configuration d'équipements TNT	9 au 13 Mars 2020	Niamey, NIGER	850 USD
2	Informatique de l'audiovisuel : Production et Transport	13 au 17 Avril 2020	ESMT, Dakar	850 USD
3	Régulation des services financiers digitaux et des FinTechs	15 au 19 Juin 2020	ESMT, Dakar	850 USD

2<sup>ND</sup> STEERING COMMITTEE MEETING FOR AFRICA REGION  
2019

4	Gestion avancée du spectre pour la 5G	13 au 17 Juillet 2020	ESMT, Dakar	850 USD
5	Applications et modèles économiques de la Blockchain	26 au 30 Octobre 2020	ESMT, Dakar	850 USD

**Online courses**

No	Training course topic	Dates	Venue	Training fee
1	Nouveaux enjeux en gestion et contrôle du spectre	30 Novembre - 18 Décembre 2020	Online	150 USD
2	Management de projet: approches prédictive et agile (SCRUM)	20 Avril au 22 Mai 2020	Online	150 USD

**SUP'PTIC**

SUP'PTIC plan to run 8 courses in 2020 in the three areas of Fixed Broadband, Digital Economy and Entrepreneurship and Innovation, with two courses planned for each area.2020, all of them. The training plan is as the table below:

Course Title	Dates	Mode	Price (USD)
<b>Qualité d'un système large bande sans fil (Wireless Broadband System Quality)</b>	22-26 June	Face-to-face	300
<b>Enjeux techniques et juridiques de la large bande fixe et mobile</b>	22-25 April	Face-to-face	250
<b>Formation à la Gouvernance et à la sécurité de l'internet</b>	27-30 October	Face-to-face	300
<b>Quelle régulation pour l'économie numérique ?</b>	10-13 March	Face-to-face	300
<b>Transactions électroniques et bancaires</b>	7-9 April	Face-to-face	300



<b>Les aspects juridiques de la création d'entreprises innovantes</b>	8-11 September	Face-to-face	150
<b>Blockchain et applications</b>	21 - 24 July	Face to Face	300
<b>Transformation digitale</b>	27-29 May	Face to Face	150

## NCB

NCB were unavailable to present their Training Plan which they submitted to ITU in advance. Attempts to reach them by phone were unsuccessful. However, after clarification, NCB plan to run 2 courses in 2020, all of them Face to Face. The training plan is as the table below:

<b>Course Title</b>	<b>Location</b>	<b>Price</b>
<b>Cybersecurity Policy and Strategy</b>	Mauritius	500 USD
<b>Cybersecurity Risk Management</b>	Mauritius	600 USD

Discussions arising from the Action Plan presentations covered the following

- ITU encouraged the CoEs to work hard to market their courses and avoid cancellations as they give the CoE initiative a bad name.
- CoEs to encourage participation of women in the CoE trainings and capture their participation by gender.
- CoEs to collaborate with each other as institutions in marketing each other's courses, sharing expertise and running joint programmes on a revenue sharing basis.

Following the presentations, the Steering Committee discussed and agreed on the ITU CoE network for Africa training courses for the coming year. The table with the agreed courses for the region is attached here as Annex 3. Subject to clarification and confirmation by Secretariat on the actual number of courses proposed by SUPPTIC and NCB who were not in the meeting. Secretariat managed to clarify and amend the figures prior to the circulation of this report.

## 6. JOINT VIRTUAL MEETING WITH EUROPE-CIS STEERING COMMITTEE MEETING

The Steering Committee meeting for Africa was connected with the Steering Committee meeting for Europe via Skype, and the two SC discussed how to collaborate with each other. Africa SC meeting raised the issue of accessing experts from Europe especially in the areas of new technologies such as Cybersecurity, Cloud Computing, Machine Learning, and Digital Finance among others. The Europe CS welcomed the proposal, and it was decided that one

way to do this is to have CoEs liaise directly if they have an interest to collaborate in a particular area. ITU would be ready to facilitate these engagements.



Africa CoE also proposed for ITU to consider a Training of Trainers for the new Technologies such as AI, and blockchain, using Trainers from the Europe SC so that we empower the CoEs in the Africa region. ITU indicated this is something that could be looked at further.

ICTP indicated that they are considering organizing a training.

#### **UPDATE ON ITU ACTIVITIES**

Mr. Mike Nxele made a presentation updating the CoEs in the capacity building activities undertaken within ITU outside the CoE framework. In this presentation he touched on the work related to the development of training materials, the Digital Skills Insights publication, the ITU Academy platform and the issues arising from its use, as well as the launch of the new Digital Transformation Centres Initiative. This new initiative, launched in collaboration with CISCO, will address digital skills training at basic and intermediate levels. He also covered the work being undertaken under the auspices of the Group on Capacity Building Initiatives (GCBI). Lastly he updated on the Academia event to be held soon in Atlanta Georgia.

Mr Ali Drissa Badiel presented the work of ITU in the Africa region. He highlighted the work being done under the Regional Initiatives and demonstrated how projects are focused on building a digital economy for Africa through development of digital infrastructure, development of e- applications and services, and then ensuring that these services are available to all. All activities implement under the 2019 Operational Plan for the region are designed to contribute towards the Sustainable Development Goals for the region. In the regional activities, strengthening human and institutional capacity is key. This has relevance to the work of CoEs.

#### **7. PRESENTATION BY PARTNERS**

CISCO, which was represented by Calvin Nangue, CSR Program Manager West and Central Africa, made a presentation on the CISCO portfolio of training programs and the new

network. The presentation shows how CISCO is aligning its training programs under the CISCO Networking Academy with the evolving digital ecosystem. Mr Nxele highlighted that most of the programs covered by CISCO will be made available under the DTC Initiative.

## **8. DISCUSSION AND ADOPTION OF DRAFT REPORT**

Following the discussions, the meeting agreed as follows:

- a) The Steering Committee (SC) agrees to keep interacting during the year including holding of at least one online SC meeting during the year. The Chair and the ITU will facilitate the interaction;
- b) The meeting agreed on the importance of using the ITU Academy platform and encouraged more delivery of online training. All course participants (for both face-to-face and online courses) need to register through the ITU Academy;
- c) The meeting agreed to collaborate more closely between the CoE network partners in Africa and other CoEs globally;
- d) The need for CoEs to actively promote their activities (in addition to ITU's promotion) is very important. The use of digital media platforms is key in this regard;
- e) The CoEs are highly encouraged to take into account the ITU content while developing their own content. The ITU Secretariat will provide to all Centres of Excellence with the content developed for the purposes of CoE trainings (the use of material is for free);
- f) As of 2020, no individual course invitations will be sent out by the ITU BDT Director any longer. Instead, the Director will send a letter to its membership on a biannual basis (beginning of the year and mid-year) informing them of all courses that are planned in a particular region for the coming semester;
- g) The CoEs should present report using the same framework;
- h) The host Country for the next physical meeting of the Steering Committee will be decided at a later date. ITU was asked to consult with Cameroun and Mauritius, who have so far not hosted the meeting, if they could host the next meeting. Delegates urged ITU to reconsider the rules to allow non Steering Committee members offering to host the meeting to be allowed to do so. This is after Sierra Leone and Niger had expressed willingness to host the next meeting.
- i) A revenue share of 20% (ITU) and 80% (CoE) remained unchanged
- j) ITU Secretariat were asked to consult Cameroun and Mauritius to clarify their Training Plan submissions and make corrections as necessary
- k) The meeting agreed to circulate the report of the meeting and obtain feedback from members within one week. If no changes were made, the report would be considered adopted.

## **9. CLOSING**

The meeting ended with closing remarks from Mr Ali Drissa Badiel from ITU and Dr Isaac Sissoko Chair of the Steering Committee.

### ANNEX 1: LIST OF PARTICIPANTS

N°	PAYS	NOM	FONCTION	STRUCTURE	CONTACTS
1	BURKINA FASO	Mr Mahamadi BOUDA	Human Ressource Manager	Autorité de Régulation des Communications Électroniques et des Postes (ARCEP) 01 BP. 6437 Ouagadougou 01, Burkina Faso	Tel. +226 25375360 Email: secretariat@arcep.bf
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2<sup>ND</sup> STEERING COMMITTEE MEETING FOR AFRICA REGION

2019

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2<sup>ND</sup> STEERING COMMITTEE MEETING FOR AFRICA REGION  
2019

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30	SENEGAL	Mr Ousman TALLAN		HUAWEI Technologies Route des Almadies	Tel. +221 Email:
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32	SIERRA LEONE	Mr. Yusufu BARRY-MANARAY	Commissioner	National Telecommunications Commission (NATCOM) Ministerial Building, 5th Floor George St, Freetown - Sierra Leone	Tel : +232 76641366 Email : jbarry-mansaray@natcom.gov.sl
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		Drissa BADIEL	de l'UIT pour l'Afrique de l'Ouest	Télécommunications (UIT) 8, Route des Almadies Immeuble Rokhaya – 3 <sup>ème</sup> Etage Dakar – Sénégal	10 Email : AliDrissa.Badiel@itu. int
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2<sup>ND</sup> STEERING COMMITTEE MEETING FOR AFRICA REGION  
2019  
**ANNEX 2: IMPLEMENTATION OF COE TRAINING ACTIVITIES 2019**

Region	CoE	Courses planned	Delivery mode	Original dates	New dates	Status	Number of participants	End-of training reports	Training fees (USD)
AFR	AFRALTI	Digital Broadcasting Content Regulation in a Converged Environment	face-to-face	17-28 June 2019	17-28 June 2019	not implemented	0	not submitted	1800
AFR	AFRALTI	Digital Broadcasting Masterclass	face-to-face	8-12 July 2019	8-12 July 2019	not implemented	0	not submitted	1200
AFR	AFRALTI	Spectrum Management Masterclass	face-to-face	5-9 August 2019	18-22 November 2019	not implemented	0	not submitted	1200
AFR	AFRALTI	Digital Broadcasting Regulation in a Converged Environment	face-to-face	2-13 September 2019	14-18 October 2019	not implemented	0	not submitted	1800
AFR	AFRALTI	Digital Broadcasting Masterclass	face-to-face	30 September - 4 October 2019	30 September - 4 October 2019	implemented	13	submitted	1200
AFR	AFRALTI	Spectrum Economy and Valuation Based on A Case Study of Digital Dividends	face-to-face	4 - 15 November 2019	7-18 October 2019	implemented	5	submitted	1800
AFR	ESMT	Services financiers mobiles (mobile banking / mobile money) et l'inclusion financière	face-to-face	6 - 10 May 2019	6 - 10 May 2019	implemented	7	submitted	850
AFR	ESMT	Informatique de l'audiovisuel: Production et Transport	face-to-face	15-19 July 2019	28 Oct - 1 Nov 2019	not implemented	0	not submitted	850
AFR	ESMT	TNT : De la Planification au repliement	face-to-face	21 - 25 October 2019	21 - 25 October 2019	implemented	9	not submitted	850
AFR	ESMT	Finance digitale et Inclusion financière en Afrique de l'Ouest : Enjeux, défis et Perspectives	face-to-face	9 - 13 December 2019	9 - 13 December 2019	Upcoming	0	not submitted	850
AFR	ESMT	Gestion du spectre et régulation des réseaux mobiles LTE	Online	4-30 Novembre 2019	4-30 Novembre 2019	Upcoming	0	not submitted	150
AFR	ESMT	Dimensionnement de la capacité et gestion du CapEx des réseaux mobiles	Online	2-21 Décembre 2019	2-21 Décembre 2019	Upcoming	0	not submitted	150
AFR	DBI	ICT Applications, Products & Services Using Microsoft Office	blended	6 - 10 May 2019	6 - 10 May 2019	implemented	16	submitted	100
AFR	DBI	ICT Applications, Products & Services Using Microsoft Office	blended	17 - 21 June 2019	17 - 21 June 2019	implemented	21	submitted	100
AFR	DBI	Social Media Management and Digital Marketing (initially a different topic was suggested: E-commerce Solutions for Small and Medium Enterprises)	face-to-face	19 - 23 August 2019	9-13 September 2019	not implemented	0	not submitted	200
AFR	DBI	Design and Implementation of Security System using IP Cameras	face-to-face	16 - 20 September	16 - 20 September	not implemented	0	not submitted	200
AFR	DBI	Child Online Protection: Consumer Awareness on Cybercrimes	face-to-face	15-17 October	15-17 October	implemented	21	not submitted	150
AFR	DBI	Emerging Cybercrime Trends: Cybercrime Investigations and Mobile Forensics for Security Intelligence, Investigators & Law Enforcement Officers	face-to-face	7 - 11 October	7 - 11 October	implemented	17	not submitted	300
AFR	DBI	Digital Evidence and Cyber Forensics for Judicial Officers, Legal Practitioners & Prosecutors	face-to-face	2-6 November 2019	2-6NOV19 (to 2020)	not implemented	0	not submitted	300
AFR	DBI	Information and Cybersecurity Principles and Practices	Online	7 Oct - 15 Nov 2019	7 Oct - 15 Nov 2019	not implemented	0	not submitted	100
AFR	SUP'PTIC	Entreprenariat et Innovation (entrepreneurship and Innovation)	face-to-face	11-13 June 2019	11-13 June 2019	implemented	25	submitted	150
AFR	SUP'PTIC	Théorie générale en entreprenariat (Introduction to entrepreneurship)	Online	1-31 July 2019	1-30 Nov 2019	not implemented	0	not submitted	90
AFR	SUP'PTIC	Qualité d'unsystème large bande sans fil (Wireless Broadband System Quality	face-to-face	16-20 September	16-20 September	implemented	8	submitted	250
AFR	SUP'PTIC	Internet des objets et Economie numérique (IoT and Digital Economy)	face-to-face	9-13 September	9-13 September	implemented	10	submitted	300
AFR	SUP'PTIC	Enjeux techniques et juridiques du large bande fixe et mobile	face-to-face	15-18 October	15-18 October	not implemented	0	not submitted	600
AFR	SUP'PTIC	Quelle régulation pour l'économie numérique?	face-to-face	28-31 October	28-31 October	not implemented	0	not submitted	600
AFR	ESATIC	Gestion des Risques en Entreprise: Risques relatifs à la Gestion des Projets, à la Sécurité des Systèmes d'Information et à la Protection des Données à Caractère Personnel	face-to-face	20-24 May 2019	20-24 May 2019	implemented	20	submitted	860
AFR	ESATIC	Internet des objets (IoT) : normes, écosystème et planification des réseaux	face-to-face	11-14 June 2019	11-14 June 2019	implemented	25	submitted	690
AFR	ESATIC	Conception des réseaux d'accès optiques	face-to-face	22-29 July 2019	22-29 July 2019	implemented	16	submitted	860
AFR	ESATIC	Sécurité des applications d'Internet et de Mobile Banking	face-to-face	9-13 September	9-13 September	implemented	29	submitted	860
AFR	ESATIC	Évolution vers la 5G: Principes techniques et nouvelles oportunités économiques	face-to-face	21-25 October	21-25 October	implemented	19	submitted	860
AFR	ESATIC	Conception et Développement d'application pour les cas d'usages IoT (langage de programmation spécifique et protocole de communication)	face-to-face	18-21 November	18-21 November	Upcoming	0	not submitted	690
AFR	NCB	Cybersecurity Policy and Strategy	face-to-face	6-8 August	6-8 August	not implemented	0	not submitted	500
AFR	NCB	Cybersecurity Risk Management	face-to-face	17-18 October	17-18 October	not implemented	0	not submitted	600

### ANNEX 3: LIST OF COE TRAINING COURSES FOR 2020

CoE	Course Title	Duration	Dates	Venue	Mode of Training	Course Fee (Per Participant in USD)
<b>AFRALTI</b>	Digital Broadcasting Content Regulation in a Converged Environment	10 Days	3-14 February	Kenya	Face-to-Face	1800
<b>AFRALTI</b>	Radio Frequency Spectrum Economy and Market Valuation	10 Days	2-13 March	Nairobi, Kenya	Face-to-Face	1800
<b>AFRALTI</b>	Digital Broadcasting Masterclass	5 Days	4-15 May	Nairobi, Kenya	Face-to-Face	1200
<b>AFRALTI</b>	Spectrum Management Masterclass	5 Days	6-17 July	Nairobi, Kenya	Face-to-Face	1200
<b>AFRALTI</b>	Radio Frequency Spectrum Economy and Market Valuation	10 Days	7-18 September	Nairobi, Kenya	Face-to-Face	1800
<b>AFRALTI</b>	Digital Broadcasting Regulation in a Converged Environment	10 Days	2-13 November	Nairobi, Kenya	Face-to-Face	1800
<b>DBI</b>	IC3 Digital Literacy	5 days	11-15 May	Nigeria	Blended	100
<b>DBI</b>	ICT Applications, Products & Services Using Microsoft Office (Microsoft Office Specialist)	5 days	22-26 June	Nigeria	Blended	100
<b>DBI</b>	Digital Evidence and Cyber Forensics for Judicial Officers, Investigators, Legal Practitioners & Prosecutors	5 days	2-6 November	Nigeria	Face-to-Face	250
<b>DBI</b>	Social Media Management and Digital Marketing	5 days	10-14 August	Nigeria	Face-to-Face	100
<b>DBI</b>	Developing Web-based Applications	5 days	21-25 September	Nigeria	Face-to-Face	100
<b>DBI</b>	Child Online Protection: Consumer	3 days	20-21 October	Nigeria	Face-to-Face	150

2<sup>ND</sup> STEERING COMMITTEE MEETING FOR AFRICA REGION

2019

	Awareness on Cybercrimes (with support from GSMA)					
<b>DBI</b>	Information and Cybersecurity Principles and Practices	4 weeks	5-30 October		Online	100
<b>DBI</b>	Emerging Cybercrime Trends: Cybercrime Investigations and Mobile Forensics for Security Intelligence, Investigators and Law Enforcement Officers	5 days	9-13 November	Nigeria	Face-to-Face	250
<b>ESATIC</b>	Management de la Sécurité des Systèmes d'Information	5 days	24-28 février	Abidjan, Côte d'Ivoire	Face-to-Face	860
<b>ESATIC</b>	Conception des réseaux d'accès Optiques	5 days	23-27 mars	Abidjan, Côte d'Ivoire	Face-to-Face	860
<b>ESATIC</b>	Comprendre l'Internet des Objets (IoT): Principes, normes, écosystème et opportunités économiques	5 days	20-25 avril	Abidjan, Côte d'Ivoire	Face-to-Face	860
<b>ESATIC</b>	Sécurité des applications d'Internet et de Mobile Banking	5 days	25-29 mai	Abidjan, Côte d'Ivoire	Face-to-Face	860
<b>ESATIC</b>	Evolution vers la 5G: Principes techniques et nouvelles opportunités économiques	5 days	22-26 juin	Abidjan, Côte d'Ivoire	Face-to-Face	860
<b>ESATIC</b>	Les Systèmes embarqués pour IoT	5 days	20-24 juillet	Abidjan, Côte d'Ivoire	Face-to-Face	860
<b>ESATIC</b>	La protection des données à caractère personnel	4 weeks	1-28 septembre		online	150

<b>ESMT</b>	Montage et configuration d'équipements TNT	5 Days	9-13 mars	Niamey, Niger	Face-to-face	850
<b>ESMT</b>	Informatique de l'audiovisuel : Production et Transport	5 Days	13-17 avril	Dakar, Senegal	Face-to-face	850
<b>ESMT</b>	Régulation des services financiers digitaux et des FinTechs	5 Days	15- 19 juin	Dakar, Senegal	Face-to-face	850
<b>ESMT</b>	Gestion avancée du spectre pour la 5G	5 Days	13-17 juillet	Dakar, Senegal	Face-to-face	850
<b>ESMT</b>	Applications et modeles économiques de la Blockchain	5 Days	26- 30 octobre	Dakar, Senegal	Face-to-face	850
<b>ESMT</b>	Nouveaux enjeux en gestion et controle du spectre	4 weeks	30 nov.- 18 déc.	Online	Online	150
<b>ESMT</b>	Management de projet: approches prédictive et agile (SCRUM)	4 weeks	20 avril - 22 mai	Online	Online	150
<b>NCB</b>	Cybersecurity Policy and Strategy	5 Days	First Quarter of 2020	Port-Louis, Mauritius	Face-to-Face	500
<b>NCB</b>	Cybersecurity Risk Management	5 Days	Second Quarter of 2020	Port-Louis, Mauritius	Face-to-Face	600
<b>SUP'PTIC</b>	Enjeux techniques et juridiques de la large bande fixe et mobile	6 days	22-25 avril	Yaoundé, Cameroun	Face-to-Face	250
<b>SUP'PTIC</b>	Qualité d'un système large bande sans fil	5 days	22-26 juin	Yaoundé, Cameroun	Face-to-Face	300
<b>SUP'PTIC</b>	Quelle régulation pour l'économie numérique?	4 days	10-13 mars	Yaoundé, Cameroun	Face-to-Face	300
<b>SUP'PTIC</b>	Formation à la Gouvernance et à la sécurité de	4 days	27-30 octobre	Yaoundé, Cameroun	Face-to-Face	300

2<sup>ND</sup> STEERING COMMITTEE MEETING FOR AFRICA REGION

2019

	l'internet					
<b>SUP'PTIC</b>	Blockchain et Applications	4 days	21-24 juillet	Yaoundé, Cameroun	Face-to-Face	300
<b>SUP'PTIC</b>	Transactions électroniques et bancaires	3 days	7-9 avril	Yaoundé, Cameroun	Face-to-Face	300
<b>SUP'PTIC</b>	Aspects techniques et juridiques de la création d'entreprises innovantes	4 days	8-11 septembre	Yaoundé, Cameroun	Face-to-Face	150
<b>SUP'PTIC</b>	Stratégie numérique et transformation digitale	3 days	27-29 mai	Yaoundé, Cameroun	Face-to-Face	150