APCICT
Asian and Pacific Training Centre
for Information and Communication
Technology for Development
ESCAP

MINISTRY OF INFORMATION AND COMMUNICATIONS
Information and Communication Public Management Institute

Training on AI, Blockchain and IoT: Evolution, Vision, Trends and Open Challenges

30-31 May 2024, Hanoi

BACKGROUND

Frontier ICTs (Information and Communication Technologies) are increasingly recognized as crucial tools for realizing the Sustainable Development Goals. Innovations such as Artificial intelligence (AI), Blockchain, and the Internet of Things (IoT) are anticipated to play a significant role in sustainable development. However, they also present considerable challenges particularly in the realm of policymaking, especially among developing countries. It is crucial for countries to develop guiding frameworks for adopting frontier ICTs in their national development strategies.

The Asian and Pacific Training Centre for ICT for Development, a regional institute of the Economic and Social Commission for Asia and the Pacific (APCICT/ ESCAP), in cooperation with ICI of Ministry of Information and Communications of Viet Nam, is organizing the *Training on AI, Blockchain and IoT: Evolution, Vision, Trends and Open Challenges* in Hanoi. The training aims to deepen understanding among participants on these frontier ICTs, particularly key measures and policy directions for their effective applications in promoting sustainable development through case studies of various countries.

LEARNING OUTCOMES

At the end of the training, participants are expected to:

- Understand fundamental concepts of the frontier ICTs of Artificial Intelligence, Blockchain and Internet of Things;
- Present the current status of policies related to each of the three ICTs and global cases applied in the public sector;
- Comprehend the challenges and risks in the application of the ICTs for sustainable development as well as the measures to address them;
- Identify socio-economic and cultural factors that could exacerbate issues related to the ICTs in developing countries; and
- Identify key policy directions and measures to consider in the development, application, and deployment of the frontier ICTs for sustainable development.

TARGET PARTICIPANTS

The training will be attended by officials of the Ministry of Information and Communications in Viet Nam.

Draft PROGRAMME AGENDA

Training on AI, Blockchain and IoT: Evolution, Vision, Trends and Open Challenges

08:30 – 09:00	Registration
Day 1	
09:00 – 10:00	**Opening Session** ▪ Welcome Remarks ▪ Self-introduction by the participants ▪ Group Photo
10:00 – 10:10	*Break*
10:10 – 11:30	**Session 1: Introduction to Frontier ICTs for Sustainable Development** ▪ Overview of the Academy module's structure and use. ▪ Concise introduction to frontier ICTs, focusing on their critical roles in sustainable development and policy implications. ▪ Discussion on trends in ICT adoption in the public sector
11:30 – 13:00	*Lunch*
13:00 - 14:30	**Session 2: Artificial Intelligence (AI)** ▪ Introduction to AI's definition, scope, and features. ▪ Discussion on AI's role in achieving the SDGs, including development challenges and risks. ▪ Examination of recent AI applications in the public sector.
14:30 – 14:45	*Break*
14:45 - 16:30	**Session 3: Artificial Intelligence (AI) (continued)** ▪ Policy recommendations and international cooperation strategies for AI. ▪ Team Discussion: Share an example or plan of AI application in your organization, focusing on your primary concerns.

Time	Day 2

09:00 – 09:30	**Day 1 Review**
09:30 - 10:40	**Session 4: Blockchain** ▪ Introduction to Blockchain's definition, scope, and features. ▪ Discussion on Blockchain 's role in achieving the SDGs, including development challenges and risks. ▪ Examination of recent Blockchain applications in the public sector.
10:40 – 10:50	*Break*
10:50 – 12:00	**Session 5: Blockchain (continued)** ▪ Policy recommendations and international cooperation strategies for Blockchain. ▪ Team Discussion: Identify areas for improvement when implementing blockchain in your organization
12:00 – 13:30	*Lunch*
13:30 - 14:40	**Session 6: Internet of Things (IoT)** ▪ Introduction to IoT's definition, scope, and features. ▪ Discussion on IoT 's role in achieving the SDGs, including development challenges and risks. ▪ Examination of recent IoT applications in the public sector.
14:40 – 14:50	*Coffee Break*
14:50 - 16:00	**Session 8: Internet of Things (IoT) (continued)** ▪ Policy recommendations and international cooperation strategies for IoT. ▪ Team Discussion: Propose three priority policy directions for IoT application in your organization
16:00 – 16:30	**Short test and closing**