

# Enabling AI in Adult Education

The Role of Artificial Intelligence in Adult Education

Sustainable@EDU



CONFINTEA VII





15 - 17  
JUNE 2022  
Marrakech



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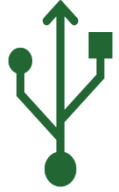
# VII International Conference on Adult Education

Adult Learning and Education for Sustainable Development - A Transformative Agenda

## The Role of Artificial Intelligence in Adult Education

# Enabling AI in Adult Education

# AI in Education - Understanding AI: Exposing The Algorithms



## Learning with AI

E.g. Use of AI-powered tools in classrooms



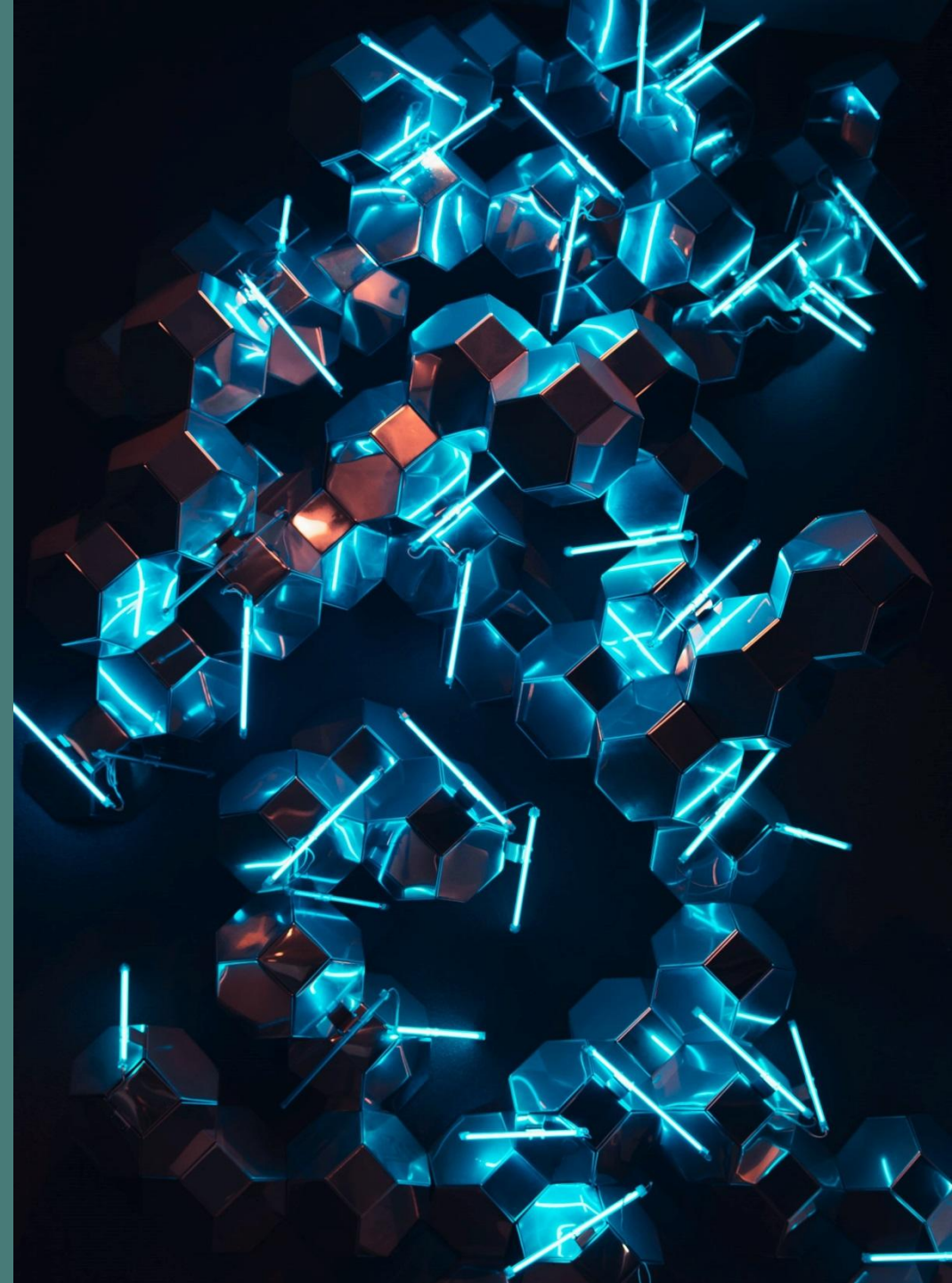
## Learning about AI

Technologies & techniques



## Preparing for AI

E.g. Enabling all citizens to better understand the potential impact of AI on human lives



## ✍ Planning AI in education policies

- ✓ AI for education management and delivery
- ✓ AI to empower teaching and teachers
- ✓ AI for learning and learning assessment
- ✓ Development of values and skills for life and work in the AI era

## ✍ AI for offering lifelong learning opportunities for all

- ✓ Promoting equitable and inclusive use of AI in education
- ✓ Gender-equitable AI and AI for gender equality
- ✍ Ensuring ethical, transparent and auditable use of education data and algorithms
- ✓ Monitoring, evaluation and research



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# URGENT ACTIONS



AI for education management and delivery

AI to empower teaching and teachers



AI for learning and learning assessment

AI for offering lifelong learning opportunities for all



## AI and education

### Guidance for policy-makers

## Setting the scene

- ✓ New approaches to understanding the impact of computers on work and education
- ✓ Evaluating revolutions in artificial intelligence from a human perspective

## Taxonomies and tests of human skills

- ✓ Skills assessments in education
- ✓ Abilities and skills: Assessing humans and artificial intelligence/robotics systems
- ✓ An occupational taxonomic approach to assessing AI capabilities

## Artificial intelligence capabilities and their measures

- ✓ Identifying artificial intelligence capabilities: What and how to test
- ✓ Assessing artificial intelligence capabilities
- ✓ Assessing Natural Language Processing
- ✓ Common sense skills: Artificial intelligence and the workplace

## Reflections and a pragmatic way forward

- ✓ Tasks and tests for assessing artificial intelligence and robotics in comparison with humans
- ✓ Questions to guide assessment of artificial intelligence systems against human performance
- ✓ Building an assessment of artificial intelligence capabilities



*“It enables an understanding of the potential as well as the limits of AI capabilities at a detailed task level so we can describe more precisely how humans and AI are complementary.”*

# Infrastructure, Human Capacity & Budget: Main AI Enablers



## Basic Infrastructure

Human Capacity and Budget

SDG Indicator 4.a.1:

“(a) Electricity”, “(b) Internet” and “(c) Computers”

## Holistic Approach throughout all Levels



**INDIVIDUAL LEVEL:** Learners, Teachers, Administrators

**SCHOOL/CAMPUS LEVEL**

**CENTRAL/REGIONAL LEVEL:** Data Centers including applications and human resources

## Value Chain



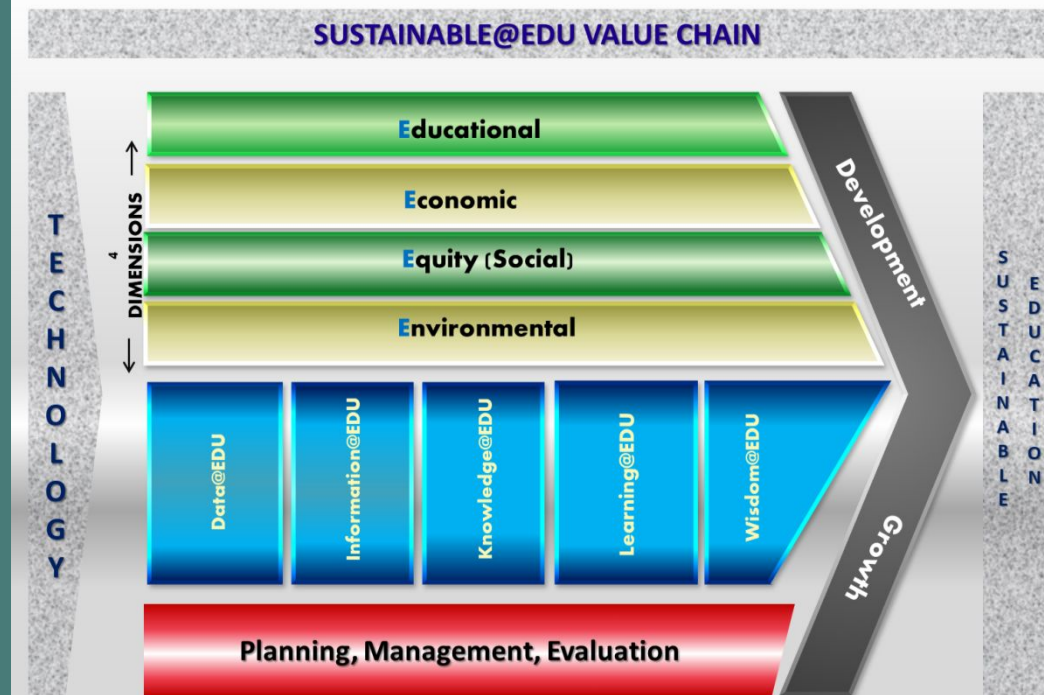
▶ **DATA:** Big Data & Data literacy

▶ **INFORMATION:** Sophisticated EMIS

▶ **KNOWLEDGE:** Digital Content and Interoperable Platforms

▶ **LEARNING:** Support from the institutions and teachers

▶ **WISDOM:** Implementation of Policies and Principles including participation from students teachers and the community





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