



World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs

WFEO Engineering Capacity Building for Africa Programme (WFEO ECBAP)



Special Task Force for Engineering Capacity building for Africa Program, WFEO



The lag in Africa's development and capacity building

- **The United Nations General Assembly** proclaimed the period **2016-2025** as the **Third Industrial Development Decade for Africa (IDDAlII)** in 2016. The Resolution specifically encouraged the United Nations Industrial Development Organization (UNIDO) to develop, operationalize, and lead the implementation of the program, in close collaboration with the African Union (AU).
- The theme of the High-Level event on 22nd September 2023 on the margins of the 78th UNGA was **"Positioning Africa's Industrial Skills Development, Deployment, and Retention: Accelerating Manufacturing."** The impetus for Africa's industrialization remains key to achieving both the United Nations Agenda 2030 for Sustainable Development and the African Union Agenda 2063.

For Africa, less than 6 percent of the 32 measurable SDG targets are on track to be achieved by 2030. Progress on the SDG agendas varies across subregions, but none of the subregions is on track to achieving the SDG goals.





The Importance of Engineering Capacity Building for SDGs

Global Sustainable Development Report (GSDR) 2023

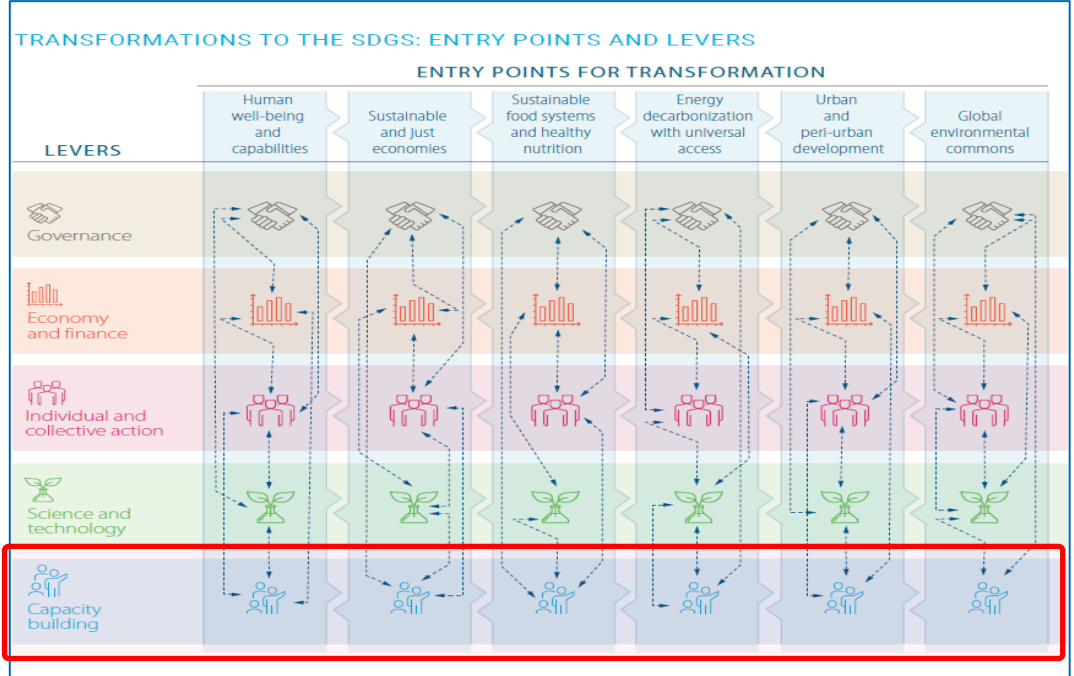


Capacity building in all countries is needed to support decisive and transformative action through any entry point.

Capacity building needs to be applied cohesively with and in support of other levers including governance, business and finance, individual and collective action, and science and technology.



Source: p2, GSDR 2023 Key Message



Entry Points and Levers for Transformations to the SDGs | Photo: 2023 GSDR



Challenges

- **The multiple dimensional contents of “Capacity” : Technical, Economical, Environmental, Social and Organizational Dimensions**
 - *to make innovative curriculum design by embedding the considerations of environmental impacts, social inclusion, etc. into technical upskilling contents*
- **The diversity of engineering profession in technology**
 - *to find a handle (emerging digital technology, especially big data and AI, which is relevant to and could empower all engineering profession)*
- **The lack of infrastructure and financial funds**
 - *to work with partners together to combine and leverage in given resources*
 - *to engage governmental, nongovernmental organization and cooperate in to the program*



WFEO's new Africa Program

WFEO recognizes the importance of **capacity building** for Africa to achieve the goals outlined in the Africa Agenda 2063 and to accelerate the implementation of the SDGs of the UN's 2030 Sustainable Development Agenda.

To address this need, WFEO proposes a **10-year Engineering Capacity Building for Africa Programme** to be supported and initially funded by the China Association of Science and Technology (CAST).



Enhance Capacity in Engineering Education

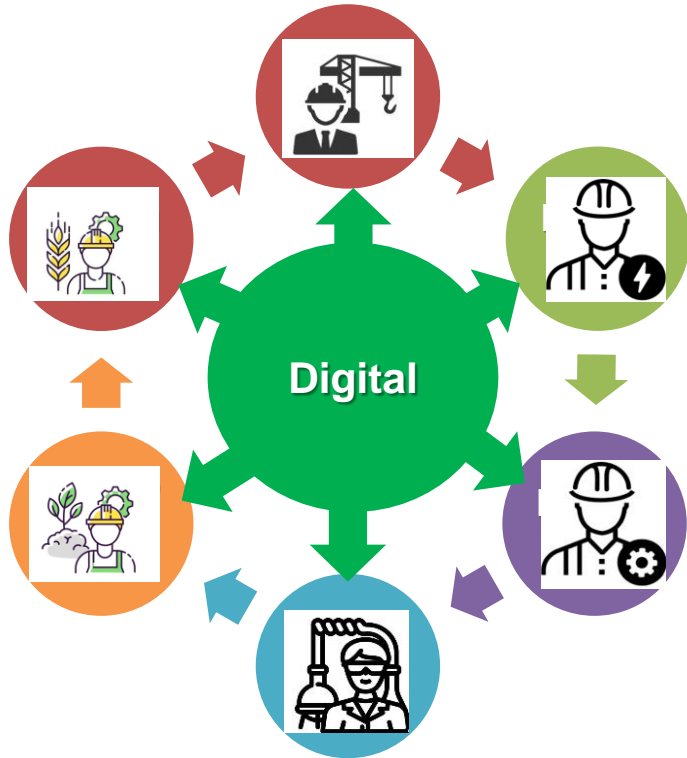
- to improve the quality and relevance of engineering education across the continent

Enhance Capacity in Continuous Professional

- To enhance technical and soft skills required for Africa's digitalization and green transition

Enhance Capacity in Technology Transfer

- to address advanced technologies to address Africa's developmental challenges and promote innovation





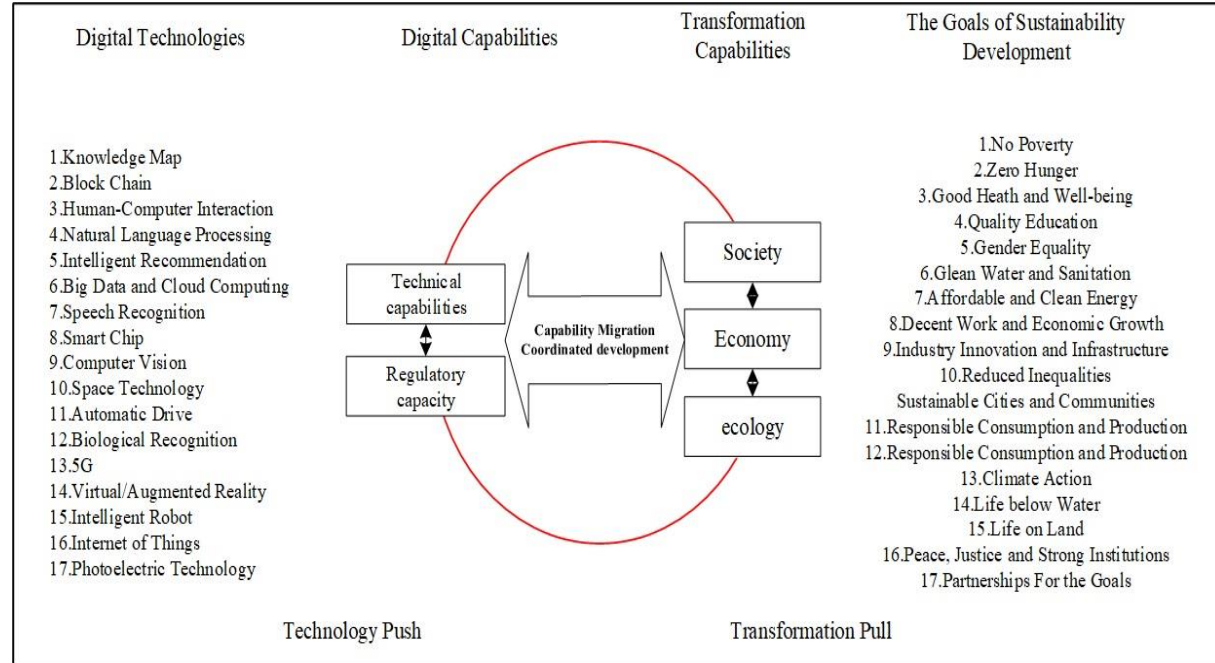
Resolution adopted by the General Assembly
 on 21 March 2024

[without reference to a Main Committee (A/78/L.49)]

78/265. Seizing the opportunities of safe, secure and trustworthy artificial intelligence systems for sustainable development

Capability for Digital and Sustainable Dual Transformation

Expanding participation of all countries, in particular developing countries, in digital transformation to harness the benefits and effectively participate in the development, deployment, and use of safe, secure, and trustworthy artificial intelligence systems, including **by capacity building relating to artificial intelligence.**

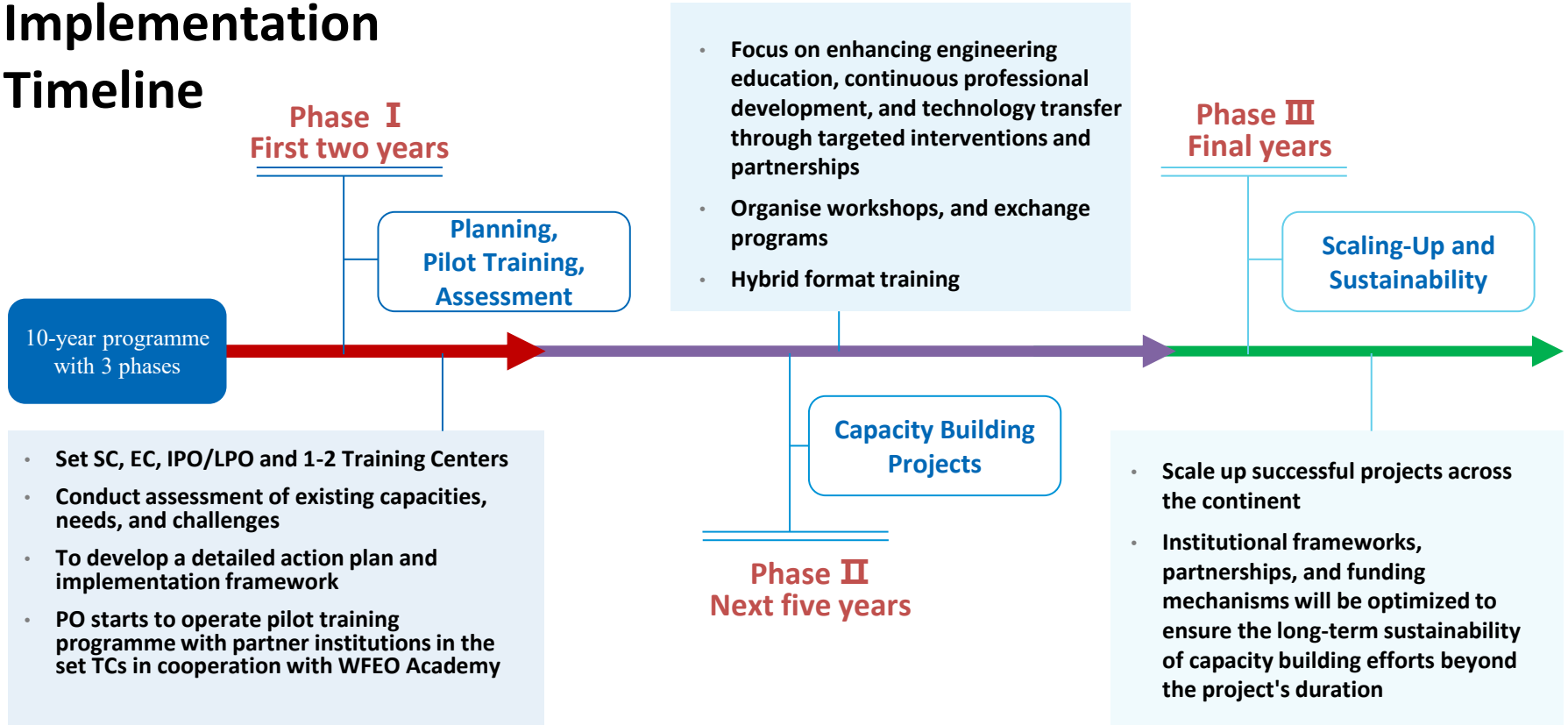






Implementation

Timeline





Organization Chart



WFEO

as the project organizer, will work with partners to oversee the implementation, collaborate with national engineering organizations, government institutions, and other stakeholders to ensure effective execution. WFEO's STCs and its member organizations will provide technical support, expertise, and guidance throughout the programme's duration.



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We are sincerely seeking for

- *local, especially governmental, support*
- *partners for the program design and jointly carrying out the trainings*
- *financial aids for various activities*
- *.....*

Engineering for Sustainable Development

WORLD FEDERATION OF ENGINEERING ORGANIZATIONS (WFEO)