



The Royal Academy
of Engineering

Africa
Engineers
Forum

ice
Institution of Civil Engineers



The Africa-UK Engineering for Development Partnership



The Africa – UK Engineering for Development Partnership

The Africa-UK Engineering for Development Partnership brings together the engineering community in Africa and the UK in a consortium led by the **Africa Engineers Forum, The Royal Academy of Engineering** and **Institution of Civil Engineers**. The purpose of the Partnership is to strengthen the capacity of the African engineering profession and promote mutually beneficial links between engineers in Africa and the UK.

Developing countries face 75-80 percent of the potential damage from climate change

1 billion people lack access to safe drinking water; 2.6 billion people are without adequate sanitation

Annual economic growth rates in Africa have averaged nearly 6% over the past decade

Why engineering?

Engineering has an essential role to play in the **development of**, and provision of **access to**, new **medical interventions**, safe **drinking water** and **sanitation** facilities, **sustainable energy** generation technologies and other public services.

Engineering is a key enabler of **wealth creation**, both underpinning the **innovation** process and being necessary for building the **infrastructure** (physical and virtual) required for enterprises, supply chains and **markets** to function.

Engineering increases the **resilience** of communities, for example by providing **practical tools** to adapt to rapid **climate change**, one of the greatest threats to fragile environments and economic growth worldwide.



The cost of redressing Africa's infrastructure deficit is \$75 billion every year

The 48 countries of Sub-Saharan Africa generate roughly the same amount of power as Spain

Africa has the highest growth rate in the world for mobile telephony but less than five per cent of Africans use the Internet

What will the Partnership do?

The Vision of the Partnership is to:

- Contribute to the development of a supportive and vibrant engineering community within Africa, encompassing the public and private sectors and academia, with the ability to produce, attract and retain the best engineers
- Enhance the connectivity between African engineers and other key professional groups, including decision makers in the business and public policy arenas
- Promote investment in infrastructure that is fit for purpose and improve the sustainability of African engineering projects
- Build closer and mutually beneficial links between the engineering communities in the UK and in Africa.

"The road to prosperity is paved by good engineering solutions."

Professor Caletous Juma HonFREng FRS



The Royal Academy
of Engineering

Africa
Engineers
Forum

ice
Institution of Civil Engineers



Who is involved?

The **Africa Engineers Forum** (AEF) is a network of African multidisciplinary national engineering societies or institutions which currently represent the majority of Southern African Development Community countries, as well as Ghana and some East African Development Community countries.

The vision of the AEF is to strive to ensure an appropriate level of efficient human resource capacity in the built environment professions, particularly engineering, to enable Africa to ultimately achieve sustainable development for all the people of Africa. Its mission is to contribute resources and expertise in partnership with key stakeholders to accomplish the transfer and assimilation of the value of the best practice principles of sustainable development to identified communities at all levels. The **South African Institution of Civil Engineering** (SAICE) provides the secretariat to the AEF.

Founded in 1976, **The Royal Academy of Engineering** promotes the engineering and technological welfare of the country. Its Fellowship comprises the UK's most eminent engineers and provides the leadership and expertise for the Academy's activities, which focus on the relationships between engineering, technology, and the quality of life. As the UK's national academy, it provides independent and impartial advice to Government; works to secure the next generation of engineers; and provides a voice for Britain's engineering community.

The **Institution of Civil Engineers** (ICE) is a global membership organisation that promotes and advances civil engineering around the world. Founded in 1818 and governed by a Royal Charter, ICE is a professional qualifying body whose grades of membership are internationally recognised and highly valued, with over 77,000 members in more than 150 countries. The vision of ICE is to support 'Civil Engineers at the heart of society, delivering sustainable development through knowledge, skills and professional expertise'.

Engineers Against Poverty is an independent NGO that works with government, industry and civil society to fight poverty and promote sustainable development. It influences corporate and public policy and helps deliver practical solutions aimed at creating jobs, promoting enterprise development and improving education and training.

Other important partners include **UNESCO**, the **World Federation of Engineering Organisations** and the **Association of Black Engineers-UK**.

For more information, please visit www.raeng.org.uk/EngDev

We would like to express our appreciation to The Anglo-American Group Foundation and The David and Elaine Potter Foundation for their generous support for this initiative.