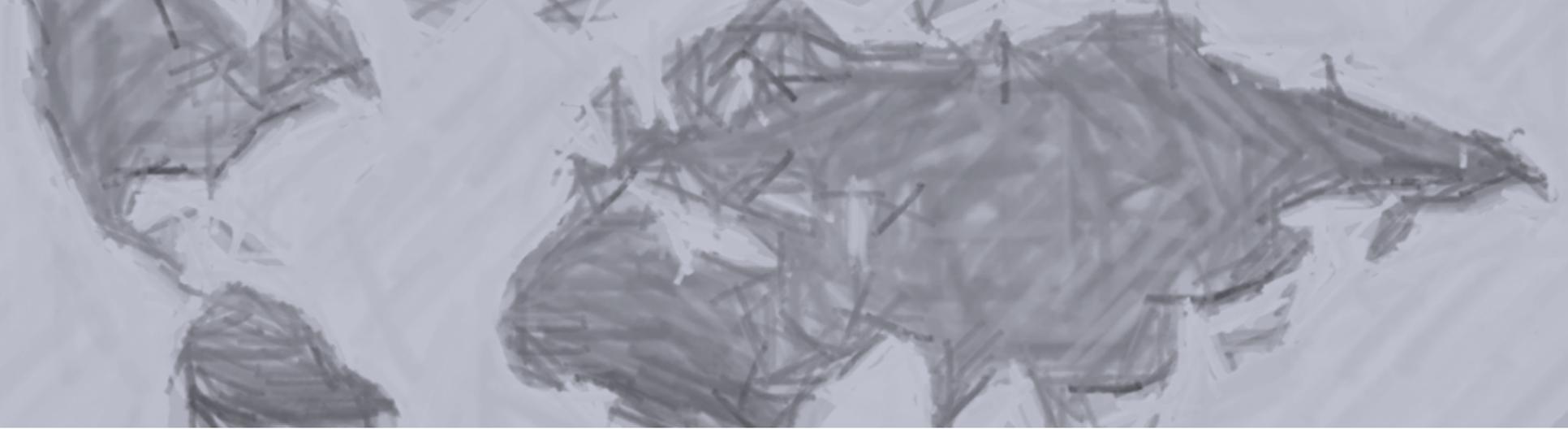




The World Federation of Engineering Organizations





- The international organization for the engineering profession
- Founded in 1968 Under the auspices of UNESCO
- 90+ national engineering institutions
- Representing 20 million engineers
- Member of major Science & Technology Groups

Engineering
for Everyone



Engineering for Everyone



Algeria
Argentina
Australia
Bahrain
Bangladesh
Belize
Bolivia
Brazil
Bulgaria
Cameroon
Canada
Chile
China
Colombia
Costa Rica
Cote d'Ivoire
Croatia
Cyprus
Czech Republic
Dominican Republic
DR Congo
Ecuador

Egypt
El Salvador
Fiji
France
Germany
Ghana
Greece
Honduras
Hong Kong
Hungary
India
Iraq
Italy
Japan
Jordan
Kenya
Korea
Kuwait
Lebanon
Libya
Madagascar
Malawi

Malaysia
Malta
Mauritius
Mexico
Moldova
Montenegro
Morocco
Nepal
New Zealand
Nigeria
Pakistan
Palestine
Peru
Poland
Portugal
Puerto Rico
Romania
Russia
Saudi Arabia
Senegal
Serbia
Sierra Leone

Singapore
Slovakia
Slovenia
South Africa
Spain
Sri Lanka
Sudan
Switzerland
Syria
Taiwan
Tanzania
Tunisia
Turkey
Uganda
United Arab Emirates
United Kingdom
United States
Uruguay
Yemen
Zambia
Zimbabwe





SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS

“The clear objective of our time is parity' rooted in women's empowerment” – UN chief Guterres

at Commission on Status of Women New York March 2017 -



Science Technology & Innovation- Empowering Women



- UN SDG 5 : Gender Equality
- Engaging with the UN - CSW61 New York, March 2017
- Development of international strategic approaches for the participation of women in science, engineering and technology



UN Women Commission on the Status of Women (CSW61) Key Statements on STEM

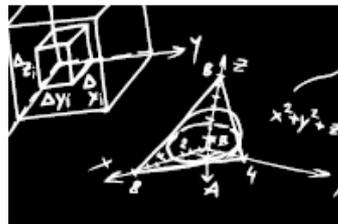
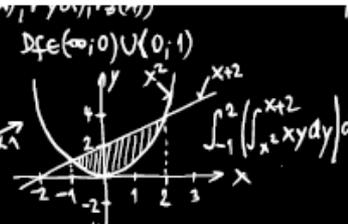
- **Lifelong Education** : from basic digital literacy to advanced technical skills in science, technology, engineering and math (STEM) and information and communications technology (ICT) especially with changing labour market structures
- **Occupational Segregation**: encourage women to diversify their occupational choices in emerging fields and growing economic sectors such as science, technology, engineering and mathematics (STEM) and information and communications technologies (ICT)
- **Skills Development in new technologies**: encourage participation of women as creators, entrepreneurs, innovators and leaders
- **Strengthen STI policies and curricula**: encourage participation of women for economic empowerment and strengthen capacity



Science Technology & Innovation- Encouraging Participation by Women

$$\begin{aligned} f(x) &= 18 \cos t (-\sin t) - 18 \sin t \cos t = \\ &= -36 \sin t \cos t = 0 \end{aligned}$$
$$\Delta(A_2) = \begin{vmatrix} 0 & 2\sqrt{2} \\ 2\sqrt{2} & 0 \end{vmatrix} = 0$$
$$\frac{\partial f}{\partial x_i}(A) = K$$





$$Df_e(\infty; 0) U(0; 1)$$
$$\int_{-1}^2 \int_x^{x+2} xy \, dy \, dx$$




Malaysia – Supporting Women Engineers



Rwanda – Empowering Women in Rural Areas through ICT



Science Technology & Innovation- Impacts on Women



- Advances in technology will empower women in every part of the world.





Technology
enhancing
quality of life
in Mongolia





Technology increasing productivity and economic well-being
in remote Mongolia



ICT and Digital Technology in Smart Cities - protect women



Minister Espérance Nyirasafari : "Principles will drive Africa from a digitally-divided continent to an equally connected region."



National & International Policies



- Iceland –the first country in the world to pass legislation for gender pay equality



WFEO Programmes for Women in STEM

- Support for women is a key priority
- Collaborate with other international organisations to develop a strategic approach to encourage women in STEM
- Support programmes that encourage girls to study science and mathematics
- Show case women engineers and their achievements as role models
- Recognise significant women engineers with awards
- Engage with the UN and other bodies on policies related to science, technology and engineering



Engineering for Everyone

- Participation
- Influence
- Representation



The world's engineers
united in rising to
the world's challengers.
For a better, sustainable
world.

Engineering for Everyone.



**The World Federation of Engineering
Organizations**

Fédération Mondiale des Organisations d'Ingénieurs