



# World Federation of Engineering Organizations

## Strategic Plan

(2019 General Assembly to 2023 General Assembly)

### VISION

To be the acknowledged global leader of the engineering profession.

### MISSION

To be the unified voice of the engineering profession in providing strategic engineering guidance to global society for sustainable development.

## Strategic Objectives

### A. External Objectives

1. Be recognized as the respected and reliable source of advice and guidance on engineering and technology related issues and engage with government, industry universities and professional engineering institutions on the role of engineering for sustainable development
2. Be at the forefront of international efforts, especially at the United Nations and its agencies, in making the Engineering profession contribute that is scientifically and technologically achievable
3. Ensure that WFEO committees and working groups increase members' awareness to apply engineering and technology to advance the UN Sustainable Development Goals, to address climate change adaptation, disaster risk mitigation, food security, clean water, energy, public health, and poverty alleviation
4. Implement the Engineering 2030 Plan for professional engineering education and professional development and facilitate mobility of engineering professionals globally,
5. Establish and maintain a global code of ethics for the professional practice of engineering
6. Promote diversity and inclusion in the engineering profession
7. Promote World Engineering Day for Sustainable Development, 4<sup>th</sup> March annually, the founding day of WFEO,

### B. Internal Objectives

8. Improve the financial condition, visibility, presence, and stature of WFEO
9. Develop an engaged and expanded membership and the support of and to our members.

## **Objectives, Actions, Results and Benefits**

### **A. External Objectives**

#### **Objective 1**

Be recognized as the respected and reliable source of advice and guidance on engineering and technology related issues and engage with government, industry, universities and professional engineering institutions on the role of engineering for sustainable development.

#### **Actions**

- Develop liaisons to assist members to build credibility with governments, universities, industry and professional engineering institutions, intergovernmental organizations and international NGOs and engage the society- at-large,
- Develop position papers, guidelines and engineering information, and perspectives to advance the UN Sustainable Development Goals such as Codes of Practice for Sustainable Development and Environmental Stewardship and WFEO Code of Practice on Principles of Climate Change Adaptation for Engineers,
- Identify and develop best practices in engineering activities.

#### **Results and Benefits**

- WFEO will become the worldwide reference body on Engineering and Technological matters,
- WFEO will gain membership and support for its activities.

#### **Objective 2**

Be at the forefront of international efforts, especially at the United Nations and its agencies, in making the engineering profession contribute that is scientifically and technologically achievable.

#### **Actions**

- Engage the private sector, the public sector, and other stakeholders to provide up-to-date knowledge of engineering and technology,
- Continue to support WFEO international Engineering events such as World Engineering Convention, and proactively engage in other important international engineering events,
- Organize and conduct World Engineering Forum, focusing on relevant SDGs.
- Actively attend the annual UN Science Technology and Innovation (STI) forum as well as other activities to make the voice of engineering profession.

#### **Results and Benefits**

- WFEO and member organizations will be a source of up-to-date expertise in different areas of engineering and technology.

## **Strategic Plan**

(2019 General Assembly to 2023 General Assembly)

- Increase the visibility of WFEO in the forefront of technical and engineering development,
- Enhance the WFEO role in UN Sustainable Development Agenda.

### **Objective 3**

Ensure that WFEO committees and working groups increase members' awareness to apply engineering and technology to advance the UN Sustainable Development Goals, to address climate change adaptation, disaster risk mitigation, food security, clean water, energy, public health, and poverty alleviation.

#### **Actions**

- Advance the achievement of the UN Sustainable Development Goals through collaboration with other organizations and the work of WFEO committee and working groups,
- Participate in UN and intergovernmental organizations dealing with these matters,
- Mobilise WFEO members to embrace the SDGs and support national efforts in their countries,
- Transfer knowledge through workshops, seminars, conferences and publications, by harnessing the power of the network,
- Set up relevant working groups focusing on related SDG and get together related expertise from our members to promote implementation of the SDG,
- WFEO committees and working groups to develop codes, guidelines, best practices, professional opinions,
- WFEO committees and working groups to be evaluated for activities and performance,
- WFEO committees and working groups to develop action plans and a timetable of deliverables,
- WFEO committees and working groups to provide regular reports to members and stakeholders on activities.

#### **Results and Benefits**

- The work of WFEO committees and working groups will increase the profile of the organisation and assist in fulfilling its mission,
- Policymakers see WFEO as a source of advice and guidance on engineering and technology matters,
- Collaboration will bring forth additional financial resources from partners in joint projects,
- Linkages with international bodies leading to cooperative agreements and joint projects and publications,
- More effective committees and working groups.

### **Objective 4**

Implement the Engineering 2030 Plan for professional engineering education and professional development and facilitate mobility of engineering professionals globally.

## **Strategic Plan**

(2019 General Assembly to 2023 General Assembly)

### **Actions**

- Use WFEO channels to promote initiatives for the mobility of professional engineers among its member organizations,
- Facilitate cooperation between international and national professional engineer licensing and regulatory organizations to develop the cross-border practice of professional engineers,
- Work with International Engineering Alliance and similar regional organisations to promote the value and use of their professional post nominals to WFEO members,
- Establish a generic basis for minimum requirements of knowledge, skills and competencies with consideration of the needs of sustainable development,
- Establish engineering qualifications that are recognised nationally and internationally to facilitate mobility,
- Establish an international platform for engineering standards under the auspices of WFEO and UNESCO as a basis for recognition of qualifications and experience of practicing engineers,
- Liaise with government to establish consistent regulatory policies.

### **Results and Benefits**

- Demonstration of WFEO relevance in facilitating mobility in the current global engineering environment,
- Recognition of the value of member organizations by demonstrating the political dimension of the engineering profession,
- Demonstration of WFEO importance in disseminating information on the requirements for professional engineers globally.

## **Objective 5**

Establish and maintain a global code of ethics for the professional practice of engineering,

### **Actions**

- Promote worldwide acceptance of standards of behaviour and practice for engineering Professional,
- Develop WFEO code or guideline for responsible conduct with Big Data and Artificial Intelligence in engineering,
- Encourage National members to adopt a codes of practice based on models such as the WFEO Model Codes of Ethics,
- Encourage members to support Technical Committees such as ISO/TC 309 (ISO 37000 Anti- bribery management Systems),
- Participate in the development of tools to assist members to implement the Anti-bribery Management Systems standard ISO 37001.

### **Results and Benefits**

- WFEO will be seen as a driving force for ethical performance of the engineering profession,
- Reduced corruption in engineering practice.

## **Strategic Plan**

(2019 General Assembly to 2023 General Assembly)

### **Objective 6**

Promote diversity and inclusion in the engineering profession.

#### **Actions**

- Identify mentoring platforms for younger engineers and leadership programs for women engineers within and outside WFEO,
- Collect programs undertaken by members and make them available,
- Participate in relevant UN activities to represent engineering profession and show the efforts made by WFEO as well as its members in this regard,
- Create measurable goals for women engineers attraction, retention and recognition of women in the engineering profession,
- Increase the number of women and young engineers that participate in WFEO activities.

#### **Results and Benefits**

- By increasing the interest of new generations and the motivation of women in the practice of engineering, the scope of member organizations' activities is enhanced and amplified,
- WFEO committee and working groups will include younger engineers as well as women engineers.

### **Objective 7**

Promote World Engineering Day for Sustainable Development, 4<sup>th</sup> March annually, the founding day of WFEO

#### **Actions**

- Develop a program to support celebrations at UNESCO Paris and internationally,
- Develop resources to support celebrations via a dedicated website, the international committee of World Engineering Day, and sponsorship programme,
- Collaborate with professional engineering institutions and leading corporates in different engineering fields around the world and other international organisations to promote the Day,
- Propose recognition of World Engineering Day for Sustainable Development as UN Day of Recognition.

## **B. Internal Objectives**

### **Objective 8**

Improve the financial condition, visibility, presence, and stature of WFEO.

#### **Actions**

## **Strategic Plan**

(2019 General Assembly to 2023 General Assembly)

- Promote within each WFEO committee and working group, the organization of international meetings (two or more in a 4 - year period) on subjects of their area of scope,
- Develop and execute a plan with specific activities to be undertaken to achieve time - bound goals to:
  - Seek donations from corporate sponsors, private charitable institutions and other international funding agencies,
  - Identify additional revenue sources (e. g. grants, research funding, etc.),
  - Collect royalties from international conferences through WFEO.

### **Results and Benefits**

- Sustainable and predictable funding for WFEO activities,
- Technical reports produced by the WFEO committees might be sold to non-members deriving income to be shared with respective committee.

## **Objective 9**

Develop an engaged and expanded membership and the support of and to our members.

### **Actions**

- Develop a membership enhancement plan with specific activities to:
  - Re - engage former members,
  - Recruit new members and associates,
  - Create other membership categories,
- Develop and execute a Member Engagement Plan,
- Develop joint programs with international organisations from within and outside the engineering field, industry and financial institutions committed to a sustainable world,
- Disseminate latest innovations in Engineering & Technology to members,
- Improve communications with member organizations and mobilize the cooperation between members and STC/PICs,
- Further improve the WFEO website and develop the WFEO presence on major social media, to provide useful information to members on WFEO activities, exchange information between members,
- Publication of a newsletter and communication of WFEO activities to all members and key entities.

### **Results and Benefits**

- Establishment of channels for contacts by WFEO officers with members,
- Engage more members to WFEO activities internally and externally,
- Increased interest of non-members to join WFEO.