

# **THE COMMITMENTS OF THE ENGINEERING SECTOR IN ACHIEVING THE OBJECTIVES OF THE AGREEMENT OF COP21 IN PARIS**

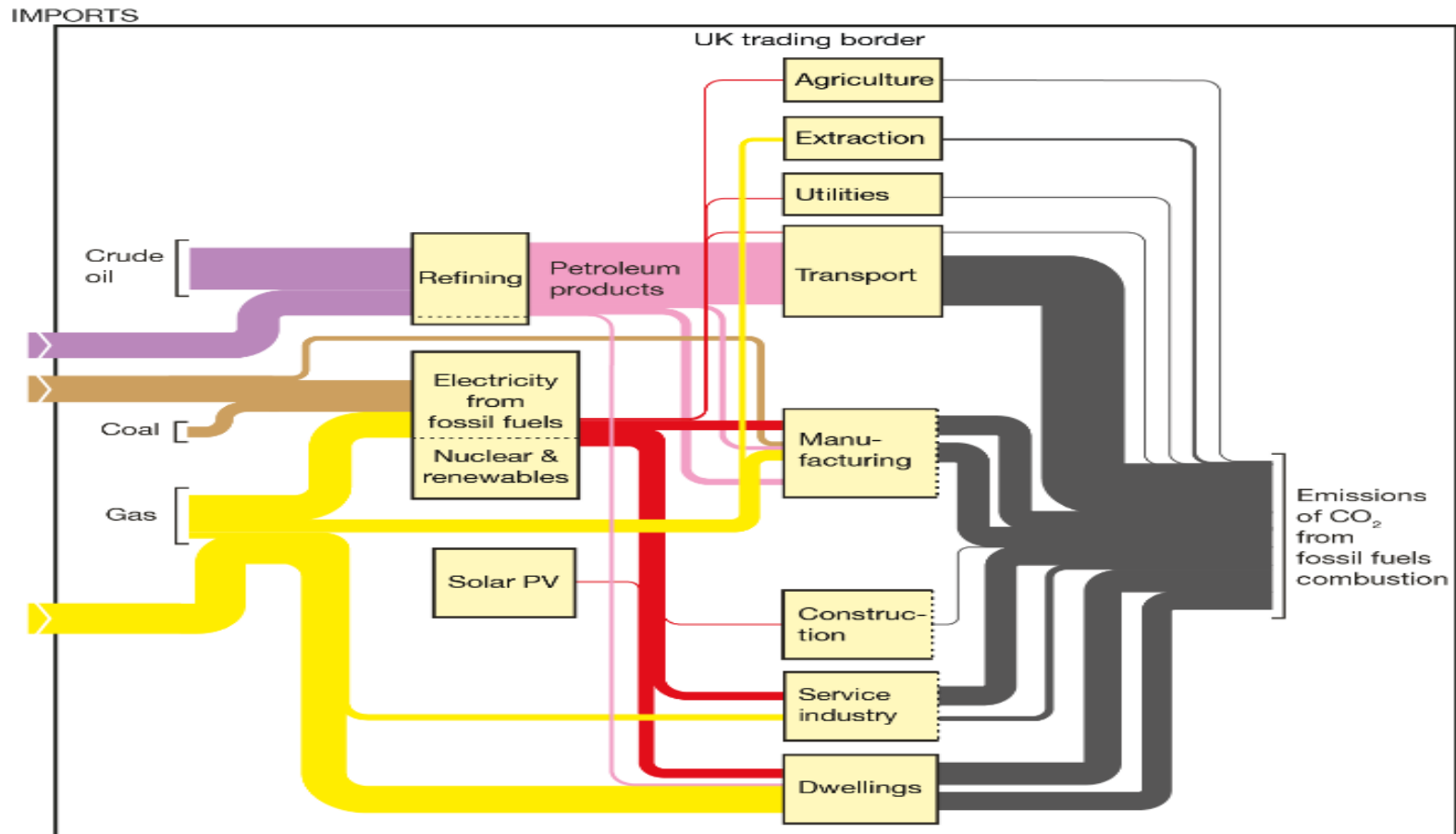
**Mr. Moncef ZIANI, FIDIC Vice President  
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Engineers) and President of FMCI  
(Moroccan Federation of Consulting and  
Engineering )**

# Preamble

- Engineering, a high value-added economic sector.
- Engineering, a sector that has the skills to build sustainability.
- The voluntary commitment of the profession.

# Engineering a high-value economic sector that covers all the areas related to CO<sub>2</sub> emissions

Example : CO<sub>2</sub> emissions from combustion of fossil fuels in UK



Source ARUP & BRUNEL UNIVERSITY 2016 Conference, UK Chapter of the System Dynamics Society, Roberts\_2016-Day1-RobertsAxon-Presentation

# Engineering a sector that has the skills to build sustainability

- **Organise and manage a transversal and integrated approach.**
- **Establish and strengthen technical choices.**
- **Integrate environmental and social constraints and strengths.**
- **Assess the environmental, societal and economic impact.**
- **Optimise functionally, technically and financially**  
(multidisciplinary teams).
- **Participate in discussions with public institutions and public research organisations.**
- **Accompany the implementation of projects.**

# THE VOLUNTARY COMMITMENT OF THE PROFESSION

## THREE WALKS OF PREFERRED ACTION

- The development of actions and **tools necessary for the implementation of SD requirements for construction.**
- The systematic integration of **specific SD requirements in training .**
- Compliance with **a duty of advice** vis-à-vis the client.

# I. THEMATIC COMMITMENTS

- **Specific tools** to complement the FIDIC Sustainable Development Kit (SD).
- **Sustainable city**, co-design of urban projects.

# THE PPSL (PROJECT/PROGRAMME SUSTAINABILITY LOGBOOK) FOR MONITORING BUILDINGS AND FACILITIES

## **FIDIC is committed to:**

- Encourage professionals of the federation to propose **the use of the PPSL with its digital support (PPSL on line);**
- **Offer training on/ awareness of the use of the PPSL with its digital support to monitor projects.**

**Monitoring indicator:** number of PPSL proposed and implemented annually.

# SUSTAINABLE CITY, CO-DESIGN OF URBAN PROJECTS

## **FIDIC is committed to:**

- **Encourage professionals to participate in monitoring the implementation of frameworks** related to the ISO norm “Management system for sustainable development”;
- **Contribute to the development of implementation guides and specific tools for the different types of urban projects**, in particular the PPSL variant called CPSL for urban projects;
- **Secure the promotion** to both engineering firms and urban contracting authorities and other stakeholders.

**Monitoring indicators:** number and variety of participants in awareness / training sessions.



# II FIDIC REPOSITORY OF BEST PRACTICES & TRAINING

- **Mobility, planning studies.**
- **Infrastructure.**
- **CSR and Training.**

# MOBILITY, PLANNING STUDIES

## INTER-MODALITY, INTEROPERABILITY

### **FIDIC is committed to:**

**Adapt the repository of best practices** - which is the basis of the training developed under its control - to commit professionals who refer to it

- **when acting as a consultant or Assistance to Employer**, to advise the Client to incorporate inter- operability / modality goals,
- **when being consulted in view of project management**, to propose inter- operability / modality goals as part of a variant, if the consultation permits.

# MOBILITY, PLANNING STUDIES

## PLANNING STUDIES

### **FIDIC is committed to:**

- **Support the development of methods and tools** which
  - ✓ foster a better take-up of short and long-term interactions between urban planning and transport,
  - ✓ facilitate the understanding of the instant "system effect" of the proposed project by exploring the range of alternative operating modes.
- **Encourage engineering consultants to provide in their offers variants incorporating these methods and tools**, as soon as the tender permits.

**Monitoring indicators:** number of engineering consultants who have taken the FIDIC labelled training (1), including these methodological improvements which will be recognized.

(1) "Young Professionals Management Training Programme" and training "FIDIC Certified Consulting Engineer").

# INFRASTRUCTURES

## FIDIC is committed to:

- **Revise its good practice guidelines and training** to introduce specific requirements for the particular contribution to engineering firms
  - ✓ **organise and manage a transversal and integrated approach** to all stages of the project upstream and downstream (including operation and decommissioning), covering the needs of different stakeholders,
  - ✓ **establish and strengthen technical choices**, reassure, streamline, and also invent and create innovative solutions,
  - ✓ **integrate environmental and social constraints and strengths**, including the effects induced by climate change, sufficiently in advance of the life of a project,
  - ✓ **assess the environmental, societal and economic impacts** (which often obey contradictory logic) through indicators adapted to the local context of each project and determined and prioritised objectives.

**Monitoring indicator:** amount of investments where these principles have been applied

# CSR AND TRAINING

## CORPORATE SOCIAL RESPONSIBILITY

### **FIDIC is committed to:**

- **Act so that the values related to Corporate Social Responsibility** are the basis for developing governance principles of engineering companies;
- **Actively promote the implementation at a more global level and related to all member companies of contractual agreements or action plans for the:**
  - ✓ integration through alternation learning (school & work) or youth apprenticeship or job seekers,
  - ✓ professional gender equality; employment of disabled workers
  - ✓ employment and management of senior careers
  - ✓ the development of mentoring and transmission of skills and expertise;
- **Revise its Code of Professional Ethics** that leaders of member companies undertake to respect and ensure their employees respect it too.

# CSR AND TRAINING

## ECO-RESPONSIBILITY

### **FIDIC is committed to:**

- **facilitate the deployment of eco-responsibility initiatives by its members** by initiation and training. These will include
  - ✓ maximizing employee **mobility**: commuting to work place, route to the construction sites, or execution of missions,
  - ✓ promoting soft **transport** (cycling, ...)
  - ✓ the establishment of **adequate car parking** (shelter, parking optimization, ...)
  - ✓ internal management of **consumables** and **waste** generated by business activities,
  - ✓ optimisation of **energy consumption**, water, etc.

**Monitoring indicator:** number of executives who received initiation and training referred to above.

# III. IMPLEMENTATION OF THE VOLUNTARY COMMITMENT

## PROGRAMME IMPLEMENTATION OF FIDIC COMMITMENT

- Duration 5 years with **annual progress report** on its implementation, made public at its annual conference.
- **Status report establishing a "zero point"** after the publication of this commitment, with measurement tools for monitoring the indicators, related to effective implementation of the Paris Agreement (COP 21).

FIDIC is open to the **co-signing of agreements for the implementation of some of the above commitments at international global or sectoral level**, promoting effective partnerships and strengthening the effectiveness of complementarities between actors.