



ICE Sustainability Route Map

The Global Engineering Congress Legacy

ice.org.uk

Global Engineering Congress

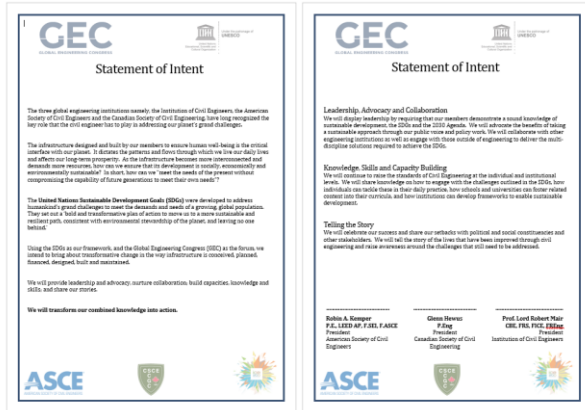


- GEC programme: Day 3
 - Aris Chatzidakis presentation: SDG7 clean energy: Complex, resilient and intelligent systems: Sustainable structural design: energy efficiency vs structural efficiency
 - European Year of the Civil Engineer: closing statement by Włodzimierz Szymczak, ECCE Acting President
 - Chairing of closing plenary session, by Włodzimierz Szymczak
- 68th ECCE General Assembly
 - Launch of book “Notes on the history of civil engineering”
 - Council Elections
- ECCE Gala Dinner

GEC October 2018

- 3500 delegates
- 200 speakers
- 82 Countries
- 50 Global Organisations

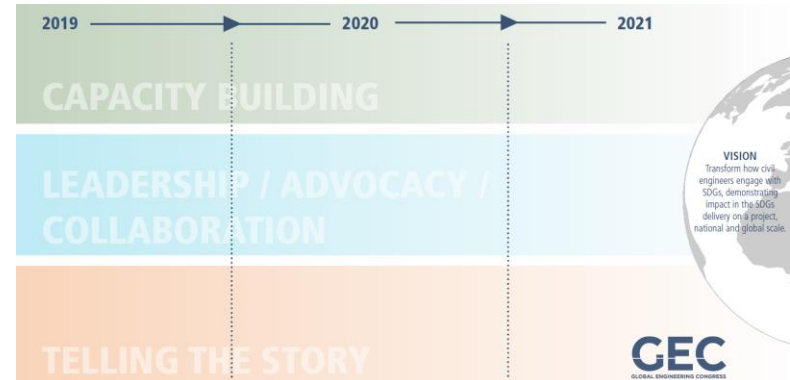
Before



Developed a Statement of Intent

- Capacity Building
- Leadership Advocacy and Collaboration
- Telling the Story

- Used the three streams from the Statement as a framework to capture actions at the GEC



During



- Volunteers helped us in the 'Action Room' to capture the key issues/challenges/ideas

- These were added to the Route Map wall chart



Key Impact Areas

Measuring Monitoring and Reporting

Find compelling ways for engineers to consistently measure SDG impact across infrastructure projects or programme.

Global Knowledge Sharing

Work with other professional bodies to increase knowledge on SDGs through education and CPD.

Systems Approach

Enable a shift from self-contained single projects towards an outcome-based system.

Route-map

2019 → 2020 → 2021

Collaborate with professional bodies to build global capacity and increase engineering knowledge on embedding SDGs within education and through CPD

Develop GEC and SDG related online learning content and discuss the Sustainability Attribute for engineers worldwide

Share/launch sustainable systems thinking framework

Inform ongoing research by nominating engineers to provide relevant data and to test existing frameworks

Find compelling ways for engineers to measure their project delivery impacts against the SDGs. Develop a measuring framework: the 'new cost benefit model' enabling engineers to consistently quantify project impact against the SDGs.

Establish a cross-sector group with finance/private sector/government to identify and recommend an effective systems framework for engineers

Use SDG success stories to build greater understanding on how to input SDG elements into engineering projects

Launch a portal for sustainable engineering; a one-stop shop on the impact engineering has on the SDGs, sharing relevant facts, experience and lessons learnt

Use 100 engineering projects to pilot a measuring framework, leading to an open data platform showing SDG impact on projects globally

WORKING GROUPS

● **MEASURING, MONITORING AND REPORTING**

● **GLOBAL KNOWLEDGE SHARING**

● **SYSTEMS APPROACH**

VISION

Transform how engineers engage with SDGs, demonstrating impact in the SDGs delivery on a project, national and global scale.

GEC
GLOBAL ENGINEERING CONGRESS
Sustainability Route Map

WHAT IS CIVIL
ENGINEERING? ▾

NEWS
& INSIGHT ▾

EVENTS &
EXHIBITIONS ▾

KNOWLEDGE
& RESOURCES ▾

CAREERS
& TRAINING ▾

ABOUT
ICE ▾

BECOME
A MEMBER

Sustainability Route Map

Global Engineering Congress

In 2018, ICE hosted the Global Engineering Congress in London. Held in collaboration with engineering organisations from around the world, it brought together thousands of delegates from more than 80 countries to

Sustainable Development Goals

In 2015 the United Nations' member states agreed to adopt 17 international Sustainable Development Goals (SDGs), and achieve them by 2030. These goals have become the benchmark for sustainability: they are universally applicable

SDGs and engineering

The infrastructure designed and built by our members is the critical interface with our planet. It dictates the patterns and flows through which we live our daily lives and affects our long-term well being. As the infrastructure becomes more

Website Contents

<https://www.ice.org.uk/knowledge-and-resources/sustainability-route-map>

