



ransport

— SAFETY *and* SECURITY —

*Going Global Partnership
UK – Egypt Trans-National
Education (TNE) Grant
2023-24*

PROJECT DESCRIPTION

There is no doubt that transporting passengers and goods is one of the fastest developing sectors worldwide, and it is a key driver in both developed and emerging economies. The transport industry, supported by technological progress through research and education, has been identified as a priority by many governments and the broader stakeholders in the UK and Egypt. However, academic and research collaborations between UK and Egyptian universities in transport are currently relatively limited and not based on permanent professional relationships. It is considered that a Transnational Education (TNE) grant will enable academics and researchers from universities in the UK and Egypt to develop a closer collaboration, which would support strengthening the teaching and research activities in both countries.

The safety and security (S&S) of transport operations and infrastructure is significant today. It is permanently being addressed at different levels, starting with the education of experts involved in transport activities and ending with national and international regulations being dealt with by responsible authorities. To that end, transport safety and security education is essential for fostering a safety culture, reducing risks, and ensuring the well-being of individuals and the broader community involved in transport systems.

A brief overview of road and rail safety from the perspective of fatalities and injuries in both Egypt and the UK reveals that:

- **In the UK** rail transport, the reported workforce and non-workforce (passenger or public) fatalities on all rail networks in Great Britain from April 2018 to March 2023 indicate 14 workforce fatalities and 33 non-workforce fatalities from 2018 to 2023. In addition, almost 10,000 injuries in the workforce and non-workforce (passenger or public) were reported in the latest year, with an increase of 5% compared with the previous year. According to the Department for Transport (DFT), road collisions in Great Britain in 2022 were estimated as 1,695 fatalities, a decline of 3% compared to 2019, in addition to 29,795 killed or seriously injured (KSI) casualties, a decline of 3% compared to 2019.
- **In Egypt**, according to the Central Agency for Public Mobilization and Statistics (CAPMAS), 55,991 road-related injuries in 2022 will increase by 8.7% from the previous year. The numbers also showed that 7,762 people died as a consequence of these accidents in 2022, with an increase of 6% compared to the previous year. In the railway sector, 1,046 train accidents were reported in 2022, an increase of 7% compared to 2021. However, the number of injuries was reduced by 28 %, from 768 to 554. However, fatalities increased by 1.2%, from 410 in 2022 to 405 in 2021.

Road and rail accident costs in countries like Egypt often exceed the total development aid received. The proposed project contributes to developing an MSc Module that can bring forward a Transport Safe System approach through transnational educational opportunities. The structure of the proposed module identifies and elaborates on three work streams: Road

Safety, Rail Safety and Safety of vulnerable rail and road users. These work streams were defined to address areas of study, including infrastructure, vehicles, traffic management capacity, and human factors & behaviour.

Through active partnerships with academic institutions on all continents, Coventry University pursued joint research and teaching programs, student and staff mobility, collaborative degrees, and progression pathway programs. This Transnational Education model allows students worldwide to study a specific degree, course or module without leaving their home country. This helps the students to develop a more significant international outlook and capacity for internationalisation. It also provides graduates other benefits like increased access to global opportunities and enhanced career prospects. Based on Coventry University's academic partnership strategy and in response to the call, the School of Energy, Construction and Environment, Coventry University (CU) is presenting the lead UK applicant for this call in collaboration with the Centre of Mobility Research (CMOR) at the Faculty of Engineering, Ain Shams University (ASU). The project consortium also includes Newcastle University (UNEW) as an associated partner represented by the future mobility group at (UNEW). The proposed project's activities aim to design a teaching and learning collaboration model for the Transportation Safety and Security (S&S) module, which contributes to a master's level in the UK and Egypt.

Moreover, it will establish a long-term collaboration between two UK universities and one from Egypt. They will share knowledge and work together to strengthen their capabilities in transport, in general, and transport safety and security. The Transnational Education (TNE) grants serve as a tool for transformative educational and research capacity and collaborative road and rail safety activities between the United Kingdom and Egypt. The proposed activities will be delivered through a blend of digital and face-to-face teaching and learning activities, and the project activities include the following:

- Joint curriculum development by developing the transport safety and security module
- Staff and student mobility by organising workshops in Egypt and the UK
- Information exchange and knowledge transfer through webinars and open dialogues, including stakeholders, industry representatives, academics, and members of accreditation bodies from CIHT and IHE.
- Training and professional development of staff and students within the TNE framework by determining and providing insights into their needs.

Project Objectives

- Sharing information and in-depth analysis of the content of relevant modules within the curricula of transport courses at partner universities. This would allow for identifying synergies and gaps and potential updates of specific aspects in the analysed modules.
- Revise and update the identified relevant modules at the UK universities by considering key findings of the analysis carried out by comparing the safety and security-related aspects in the modules of the partner universities.
- Develop a comprehensive MSc module on road and rail transport safety and security in Egypt and Initiate the module's accreditation activities.
- The project has specific objectives for students to become global graduates by providing an invaluable opportunity to interact, engage and collaborate with international peers.
- Provide the staff with innovative teaching and learning approaches, including digital learning, to enable them to participate in teamwork involving networks of geographically dispersed professionals.

Funding Authority



British Council

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Project Partners



Coventry University

School of Energy Construction and Environment (ECE)

Lead UK partner



Ain Shams University

Centre of Mobility Research (CMOR)

Lead Egyptian partner



Newcastle University

School of Engineering

Associate partner