



# Make cities inclusive, safe, resilient and sustainable

## TEACHING AND STUDENTS

### Sustainable Cities

In 1913 10% of the world's population lived in cities (UN-HABITAT, 2011), in 2018 this had increased to an estimated 55% (UN 2018). Despite covering only 2% of the world's landmass, cities produce 70% of total carbon emissions, over half of the world's GDP, are locations of often stark inequality and are uniquely vulnerable to a changing climate, as a result of their concentrated population and infrastructure.

Students on the Global Sustainable Development BASc can take the Sustainable Cities module, which aims to analyse built form, governance, culture and community, engage with opportunities offered by new community-led technologies, and critically reflect upon SDG 11.



### Sustainable Cities and Infrastructure for Emergencies module

The Sustainable Cities and Infrastructure for Emergencies module is available to students on the Humanitarian Engineering MSc. It educates students on the issues that developing countries face in relation to basic infrastructures, the barriers to economic growth that they create and how they can exasperate problems in emergency situations.

## RESEARCH

### Building sustainable, flood resilient communities in Brazil (GCRF)

Creating sustainable, flood resilient communities is vital in parts of the developing world that are prone to flooding. A key part of flood resilience lies in flood risk data and understanding how it is produced.

Waterproofing Data is a project run by the University of Warwick's Professor João Porto de Albuquerque.

The project, which runs from October 2018 to September 2021, is a collaborative venture involving researchers from Brazil, Germany and the UK. A key aim of the project is to investigate how data flows from Brazil's National Disaster Monitoring and Alerts agency (CEMADEN), which creates and monitors existing flood data, to local government.



## OPERATIONS

### Public Transport around campus

The University's Transport Vision comprehends a combination of exciting regional transport investment along with local mobility and development initiatives will help redefine local and regional connectivity. The University strongly believes working more inclusively together and by building upon its strong relationships with all participants, it will help achieve a better connected, more sustainable campus with a transformational experience benefitting the lives of those living, studying, working and visiting.



## PUBLIC ENGAGEMENT

### Planning for Real in Canley

We are working with the people of Canley to facilitate the Planning for Real process by training and supporting residents and helping them devise an action plan for change in their community. Planning for Real is a nationally-recognised community planning process where residents develop ideas on a locally-made 3D map of the area. It allows a wide range of people from Canley to register their views on a variety of issues, work together to identify priorities, and go on to develop an action plan for change with the support of local agencies. We have delivered training for community leaders with the Centre for Lifelong Learning and collected more than one thousand suggestions. Action planning meetings are community-led with relevant expertise on hand from key agencies and stakeholders, including the University of Warwick.

### Canley Pop Up Café

Canley Pop Up Café, an initiative of Dr Nor Aziz, a Warwick alumna, is supported by the University of Warwick, West Midlands Police, Coventry City Council, Canley Library and student volunteers. The cafe is an informal get together offering a friendly space for Coventry residents to meet people from different backgrounds and share stories. Free home cooked hot food is provided along with games and craft activities, the aim is to create a community feel in Canley and hope for the future.



### Leamington Street Marshals

The Leamington Spa Street Marshals scheme is a partnership between Warwick District Council, Warwick Student Union, Warwickshire Police, and the University of Warwick. The Security Industry Authority accredited street marshals help to create a positive environment for students and other residents in Leamington Spa by providing wellbeing support and promoting positive community relations when students are on a night out. Examples include helping vulnerable students get home safely and arranging medical treatment for people who are injured.

### Transmission

Transmission was an invited gathering for International university students and school children from the city of Coventry. It shared insights into infection through an innovative mix of lecture, practical demonstration and dance. It asked audiences to better understand the role of science in researching and combating antimicrobial resistance (AMR). The performance events fused research from both the universities of Warwick and Coventry, with Highly Sprung's use of physical theatre and dance, to illustrate the spread and control of infection at a microbial level. The audiences were invited into an interactive dialogue that sits between science and art, allowed them to participate in a mass demonstration revealing the rapid spread of microorganisms through human contact.