

Our story so far

Dr Encarni Medina-Lopez, FeME Director

Senior Lecturer in Ocean Observation School of Engineering, University of Edinburgh











FeME:

£2.2 million

3 year long (2025-2028)

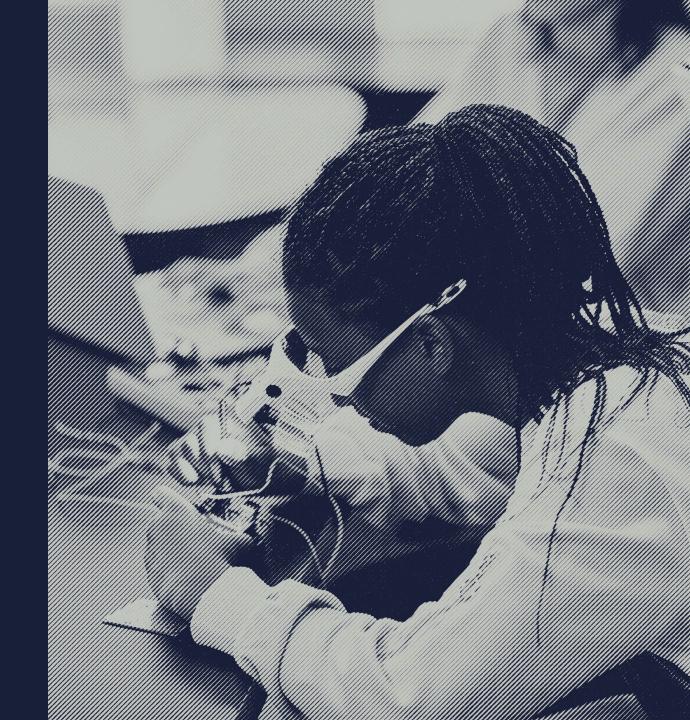
Tomorrow's Engineering Research
Challenges Network Plus programme by
EPSRC











Meet the Team



Project Manager:



Administrator:



Business Developer:



Johanna



Co-leads:



Encarni



Agnessa



Caroline



Christa



Sue



Laura

Specialists:



Claudia Yue



Lois











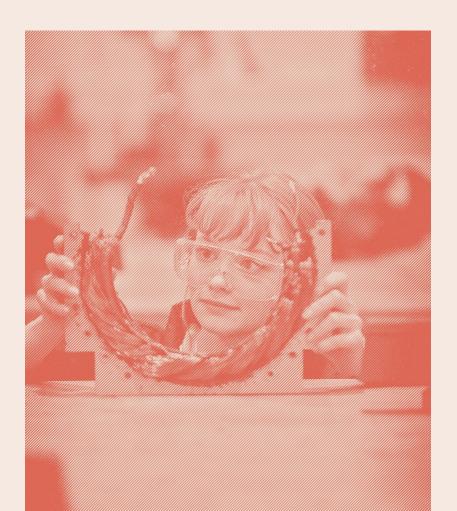




Larissa

The impact of climate change on women and children





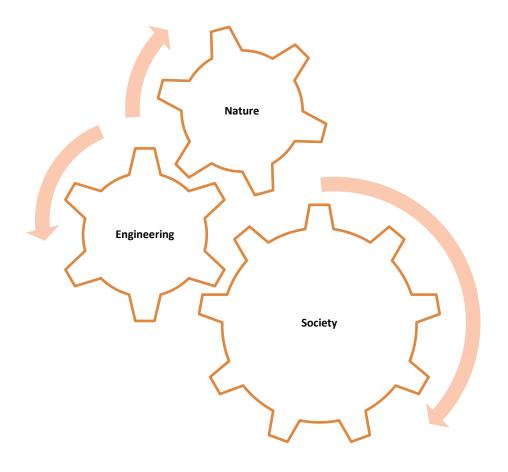
Climate change escalates social, political and economic tensions globally.

When natural disasters strike, women and children are less likely to survive and more likely to be harmed due to long-standing gender inequalities that have created disparities in information, mobility, decision-making, and access to resources and training 1,2.

Underrepresented groups (e.g., indigenous communities, impoverished communities), as well as Global South societies are more at risk.

What is the role of engineering in the climate crisis?







How do engineers speak about failure? What is a Failure Mode?





Erosion, breakage of capping wall of armour Slip circles

The erosion Care settlement

Subsoil settlement

A step-by-step approach to identify and prioritise potential failures in a design, manufacturing process or product.

By analysing the causes and effects of the failure modes, engineering provides a pathway to increase reliability and improve outcomes.

- What are the causes of these?
- What are potential effects of these failure modes?
- How do we avoid these in the future?

Our FM approach



FM 1 – Diverse Engineering

that builds on female talent through education

FM 4 – Inclusive Engineering

that supports underrepresented groups

FM 2 – Inspired Engineering

that provides socially acceptable solutions

FM 5 – Interdisciplinary Engineering

that happens at a global scale

FM 3 – Connected Engineering

that provides globally accessible data to solve global issues

FM 6 – Agile Engineering

that adapts to our resources in a threatening climate



Our activities

Over the next 3 years we are developing...

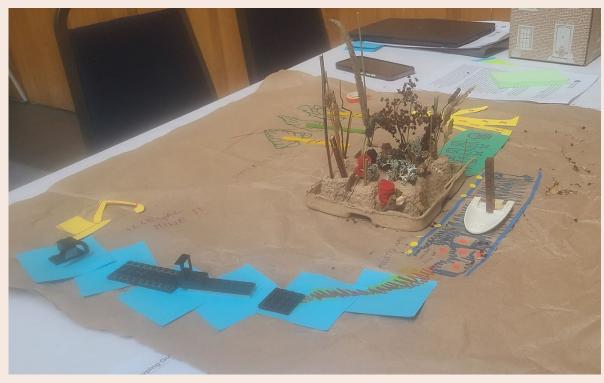


Our first Climate Challenge...



Impressions of the Climate Challenge







60 participants from **18** countries

Critical themes:

- Engagement and co-creation with end users
- Mitigation and adaptation
- Effective use of limited resources

Transport / Energy / Water

Working on interconnected challenges to co-create the future of FeME





What next?

Future funding for:

Research on critical themes
Sister networks
Supporting those in need
Doing more FeME!



