

Energy Literacy: Community engagement in renewable energy solutions

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Professor of Learning
with Digital Technology
UCL Knowledge Lab

Outline

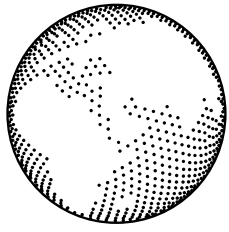
Education as professional
development?

Education for their students
and employees?

A MOOC on Renewable Energy?
(massive open online collaboration)



MOOCs in the context of the RELIEF Centre



R·E·L·I·E·F CENTRE
مرکز ریلیف

Relief Centre – Future Education Research



Dr Eileen Kennedy



The RELIEF Centre is a transdisciplinary research collaboration that focuses on **how to build a prosperous and inclusive future for communities affected by mass displacement**



RELIEF Centre MOOCs

Massive Open Online
'Collaborations'

- Co-design
- Location video
- Collaborative learning
- Arabic and English
- Blended learning support
- Embed in current practice
- Sustained by the community



Use of MOOCs for RELIEF research aims

Future Education project to:

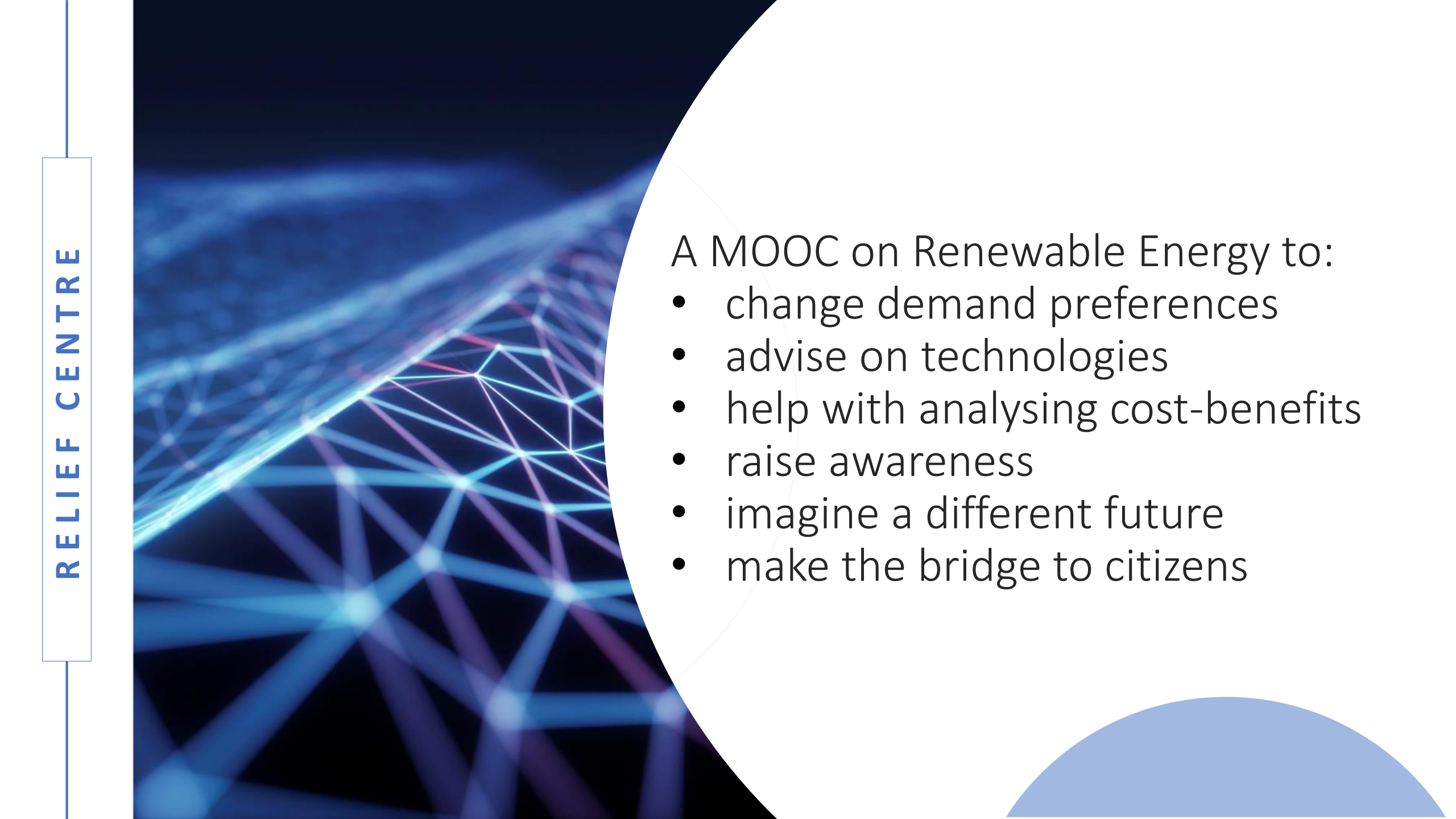
- co-design professional development with local changemakers and community members
- address key professional development needs for inclusive prosperity



Location filming for video case studies to tell the stories of local solutions




Taking our cameras to interview professionals where they live and work

- 
- A MOOC on Renewable Energy to:
- change demand preferences
 - advise on technologies
 - help with analysing cost-benefits
 - raise awareness
 - imagine a different future
 - make the bridge to citizens

A MOOC on Community-Based Research for the MENA region In Arabic

Our courses run on the Edraak platform, allowing for participants to learn and contribute in Arabic



إدراك
EDRAAK
An Initiative of Queen Rania Foundation

أساسيات البحث المجتمعي


Organization: UCL

Hi Diana LAURIL... ▾

ع

[Dashboard](#)

- ▼ الأسبوع الثاني: المهارات الخاصة بالبحث المجتمعي
- من سؤال البحث إلى جمع البيانات
- تطوير مهارات المقابلة
- تطوير مهارات الملاحظة
- الاختبار الذاتي وملخص الأسبوع
due Mar 18, 2019 at 23:30 UTC
- الأسبوع الثالث: التخطيط لمشروع البحث المجتمعي الخاص بك



نشكركم على التزامكم في المساق حتى الآن ، بما في ذلك تفاعلهم مع بعضكم البعض. هذا أمر مفيد للغاية لأنه يساعد على إنشاء مجتمع من الباحثين على منصة إدراك و منصة FutureLearn.

في الأسبوع القادم، سوف تجري جلسة سؤال وجواب بشكل مباشر معكم لمعرفة ما إذا كان بإمكاننا دمج هذه الروابط التي يتم تشكيلها. نود أيضًا معرفة ما إذا كان بإمكاننا ربط هاتين المنصتين ببعضهم البعض. سوف يشاركونا في هذه الجلسة باحثان اثنتين - الدكتور شاهر عبد اللطيف والدكتور توم باركنسون - اللذين يدعمان المجتمعات الأكاديمية عبر منظمة Council for at Risk Academics - CARA.

A MOOC on Community-Based Research

The same course runs in English on FutureLearn

For NGO professionals, International agency workers, teachers, and community professionals

To support them in co-designing research and developing solutions for local communities

2.10

YOU'VE COMPLETED 1 STEP IN WEEK 2



End of week discussion

Thank you all for your engagement with the course so far, including your interactions with each other. This is very valuable because it helps to create a community of researchers on each of our platforms - Edraak and FutureLearn.

Next week we are holding a live Q & A to see if we can consolidate these connections that are being formed. We would also like to see if we can make connections across the two platforms. We are

Show: All comments

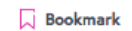
Sort by: Newest

MB

Marina Barbosa Zborowski

Follow 19 MAR

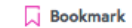
I had to postpone a bit my attendance to the course due to a trip, so only today I got aware of the call. I am sorry for missing it. It would have been nice to talk to you live.



Ana T MENTOR

Follow 20 MAR

Glad you joined us, Marina! No worries, many of us are still around ;)



Add a reply...



Christian Okolo

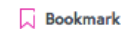
Follow 16 MAR

Sorry I missed the live Q & A session. I did not reach the End of Session stage last week to read about the notice for the Q & A. I had left for work on Thursday by the time the reminder "do not reply" email arrived at my inbox by 9.15 am.

My Question:

When publishing an academic paper based on a CBR, do the citizen scientists have a 'right' to be included as co-authors?

(edited)

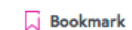


Eileen Kennedy LEAD EDUCATOR

Follow 17 MAR

The videos and the chat are there for you to see now, Christian so nothing is lost. That is a very good question about author rights. If a researcher is working with community based researchers or citizen scientists who are part of the research team, constructing the research question, collecting and analysing data, then I would say yes, absolutely they have a right to be a co-author on publications, in the same way that any researcher would. If they want to be a co-author, that is, and if they do, they should be able to contribute to the article prior to publication. What do you think?

(edited)



A MOOC on Community-Based Solutions for Renewable Energy?

Based on research in Lebanon
by the RELIEF project partners
- UCL, LAU, businesses...

For local changemakers:
entrepreneurs, investors,
employers, citizen scientists,
community leaders

To support them in

- understanding the science
- co-designing research
- developing solutions
- tracking the impact

>8,000 active learners
on Edraak for our most
recent MOOC

OpenLearn course on Climate Change - [Sign up for free](#)

...
In each case, the model simulates the time-evolving change in GMST in response to that particular history of radiative forcing, and this is then compared with the observed temperature record (i.e. Figure 24a). The results of modelling studies of this kind reported in the IPCC TAR are shown in Figure 37. Study the figure and its caption carefully, and then work through the following questions.

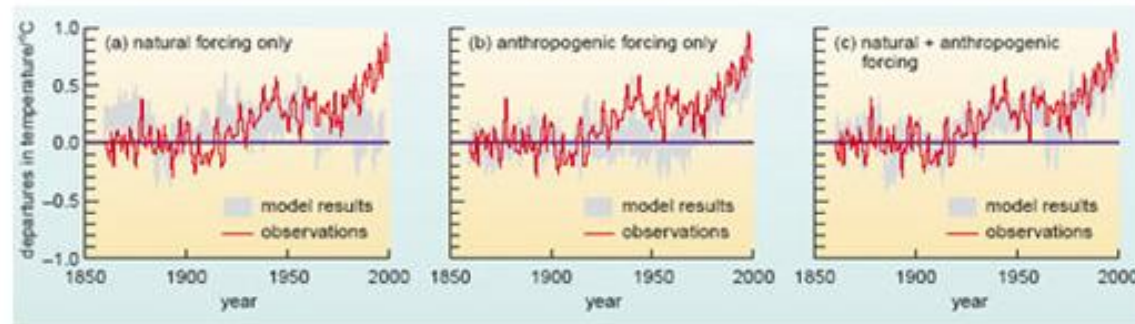


Figure 37

Figure 37 Complex climate models have been used to simulate the Earth's temperature variations over the past 140 years in response to both natural and anthropogenic forcings. The figure shows comparisons between the observed changes and the results of model simulations done with: (a) natural forcing (solar variations and volcanic activity) only; (b) anthropogenic forcing (greenhouse gases and

Participants sharing their local solutions,
across countries, across sectors

Participants applied their observation skills to collect data in their local environments, adding a photo and a note to explain their analysis.

Posts from observation skills padlet on Edraak

تجهيزات ال

شادي نجيب

من أكبر المشاكل في محيطي هي عدم تجهيز صفايات الأمطار في الطرق ومنظومة الصرف الصحي أو تجهيز أماكن الانتظار للمواصلات العامة بمظلات الحماية من المطر أو الشمس . إضافة لعدم جودة الاسفلت في الطرق السريعة والكباري مما يسبب وجود نقر وحفر وتشوهات في الطرق بفعل عربيات النقل .

التنقل أثناء النهار

The lack of traffic regulation and the lack of pedestrian crossing places cause many accidents for pedestrians, the elderly, children

تجهيزات ال

One of the biggest problems in my environment is the lack of processing of rain storms in the roads and the sewerage system or the processing of waiting areas for public transport umbrellas protected from rain or sun. In addition to the lack of quality asphalt in highways and bridges, which causes the existence of tapping and digging and distortions in the roads by transport vehicles.

التنقل أثناء النهار

عدم تنظيم المرور وعدم وجود أماكن

مهدي الحمصي

ان وجود سيارات مركونة على الرصيف مع وجود اصحاب محال يعرضون سلمهم على الرصيف امر يؤدي الى ازدحام الرصيف مع وجود عوائق تؤرق سلباً على ذو الاحتياجات الخاصة

مهدي الحمصي

The presence of cars parked on the sidewalk with the presence of owners of shops offering their goods on the sidewalk leads to congestion of the sidewalk with the presence of obstacles and afflicts negatively on the special needs

بعض التحديات من حولي

بما اننا نشارك تحديات الاشخاصمن منظور التصميم الشامل. ساشارك بعض الصور من محيطي , حيث يمكنكم مشاهدة كيفية استغلال المجلات و التعدي على الارصفة المعدة خصيصاً للمشاة , كما عدم وجود اماكن مخصصة لقطع الشارع وصعوبتها للاشخاص ذوي الاحتياجات الخاصة

بعض التحديات من حولي

As we share the challenges of people from a comprehensive design perspective. I will share some pictures from my surroundings, where you can see how to exploit magazine encroach on sidewalks specifically designed for pedestrians, as well

We are testing the **local inclusion** model:

Scale up via MOOCs as professional communities of practice, linking to thousands of local learner groups

- 1 co-designed MOOC enables 10,000 local professionals to use resources and share ideas

- 10,000 local professionals teach 25 local learners



- includes local changemakers, across sectors
- they influence their local colleagues, students, employees, communities
- they feed back their experiences and findings to the team
- collects and curates diverse local solutions

Co-design with energy professionals
in Lebanon?

A co-design approach to a massive open online collaboration

Workshops with local changemakers: businesses, policymakers, entrepreneurs, investors, employers, educators, citizen scientists, community leaders

→ priorities for curriculum/participants

→ exemplar video case studies

RELIEF team re/draft the design for comment

Film the case study sites, interviews and experts

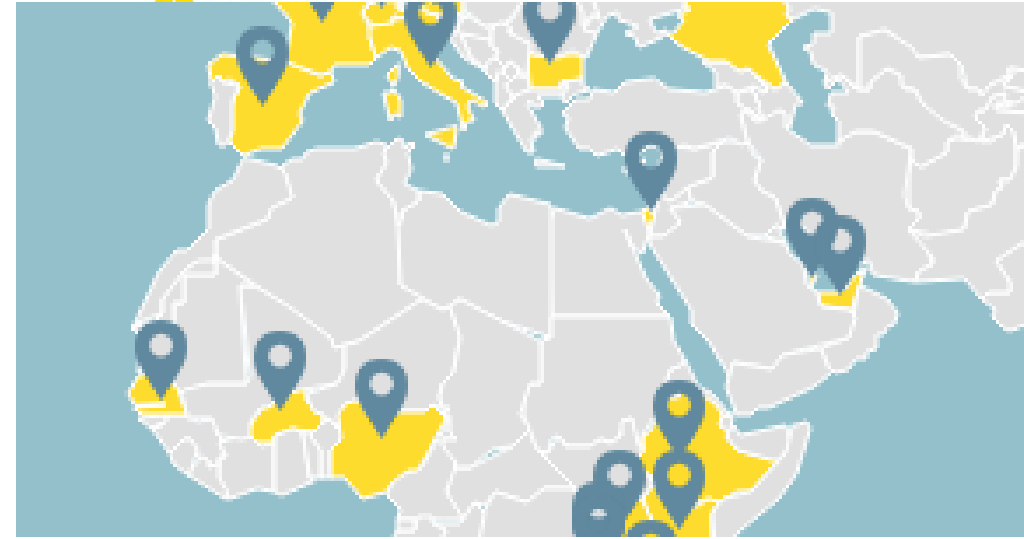
Finalise the design and marketing

→ the MOOC runs, with mentors

→ team curates contributions for next run

Embed the MOOC and resources in local 'blended learning' activities

Track the impact on local communities

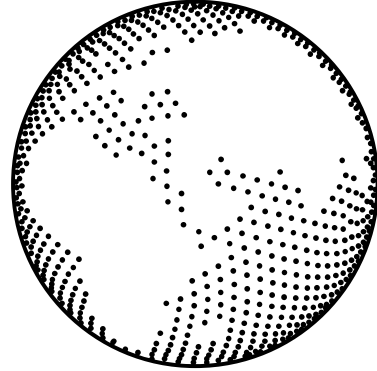


<https://littlesun.com/>

“5 hours in the sun produces 50 hours of light at the dimmest setting or 4 hours at the brightest setting”

What are the renewable energy challenges?
solutions?
ideas?

Would you join us?



R·E·L·I·E·F CENTRE
مركز ريليف

Would you join us?
d.laurillard@ucl.ac.uk