

EQUITABLE EDUCATION FOR ALL:

TEACHERS AS LEADERS OF CHANGE

Clara Vasconcelos

Faculty of Sciences, *University of Porto, Portugal* 



### Sustainable Development Goals





### EDUCATION IS THE SOLUTION

One Child
One Teacher
One Book & One Pen

**Can Change the World** 

Malala Yousfzay





Malala\_Reduce.mp4



### FREE PRIMARY AND SECONDARY EDUCATION

By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes.





### **EQUAL ACCESS TO QUALITY PRE-PRIMARY EDUCATION**

By 2030, ensure that all girls and boys have access to quality early childhood development, care and preprimary education so that they are ready for primary education.





### EQUAL ACCESS TO AFFORDABLE TECHNICAL, VOCATIONAL AND HIGHER EDUCATION

By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university.





### INCREASE THE NUMBER OF PEOPLE WITH RELEVANT SKILLS FOR FINANCIAL SUCCESS

By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship.





### ELIMINATE ALL DISCRIMINATION IN EDUCATION

By 2030, eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with disabilities, indigenous peoples and children in vulnerable situations.





### UNIVERSAL LITERACY AND NUMERACY

By 2030, ensure that all youth and a substantial proportion of adults, both men and women, achieve literacy and numeracy.





### EDUCATION FOR SUSTAINABLE DEVELOPMENT AND GLOBAL CITIZENSHIP

By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development





### BUILD AND UPGRADE INCLUSIVE AND SAFE SCHOOLS

Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, nonviolent, inclusive and effective learning environments for all.



### EXPAND HIGHER EDUCATION SCHOLARSHIPS FOR DEVELOPING COUNTRIES

By 2020, substantially expand globally the number of scholarships available to developing countries, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and information and communications technology, technical, engineering and scientific programmes, in developed countries and other developing countries.



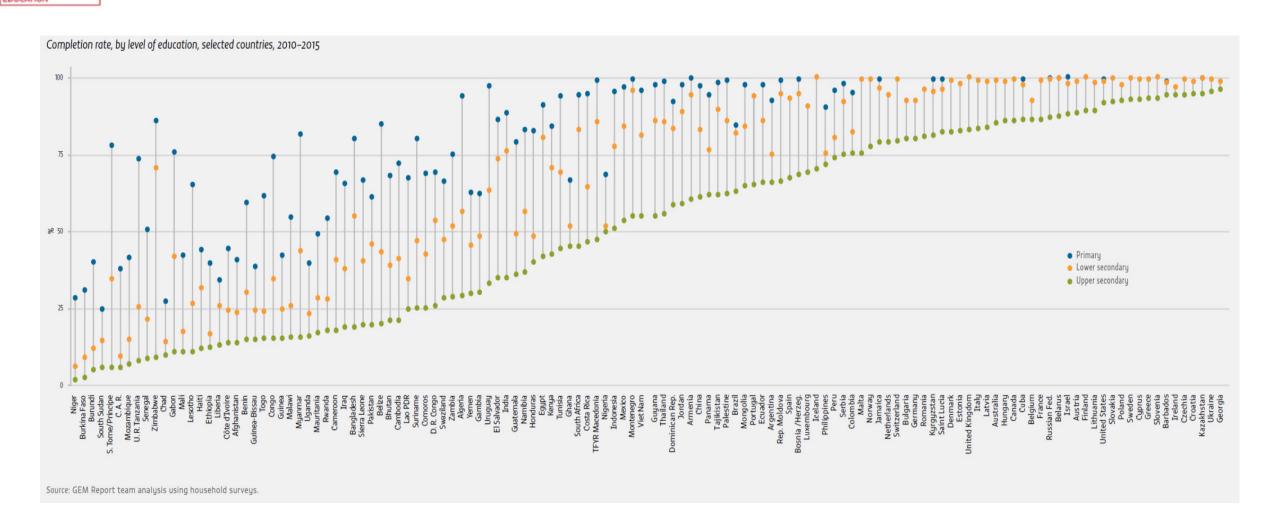
### INCREASE THE SUPPLY OF QUALIFIED TEACHERS IN DEVELOPING COUNTRIES

By 2030, substantially increase the supply of qualified teachers, including through international cooperation for teacher training in developing countries, especially least developed countries and small island developing States.

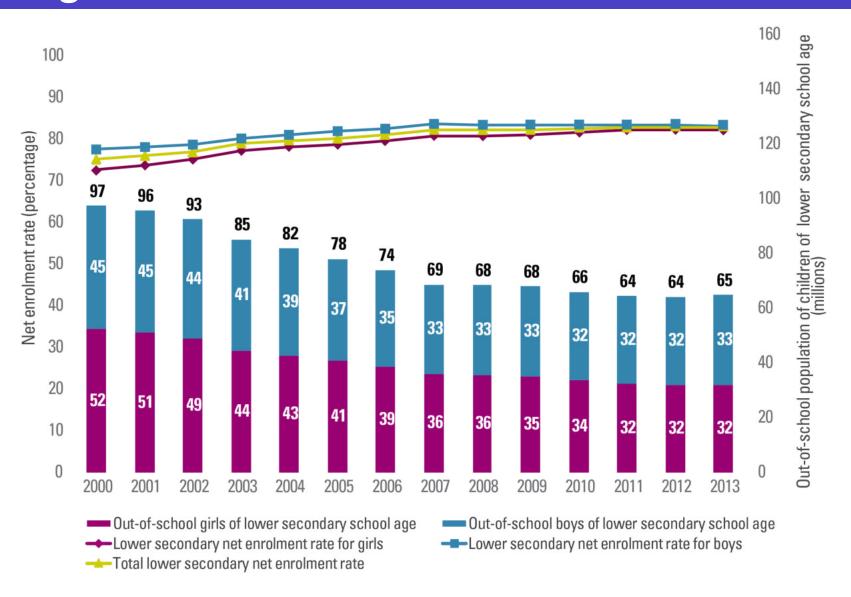


### In almost half of the countries, less than one in two youth complete secondary school





### Globally, four out of five children of lower secondary school age are enrolled in school



According to international human rights legislation, primary education must be mandatory and free.

The cost of secondary and higher education will gradually be eliminated.

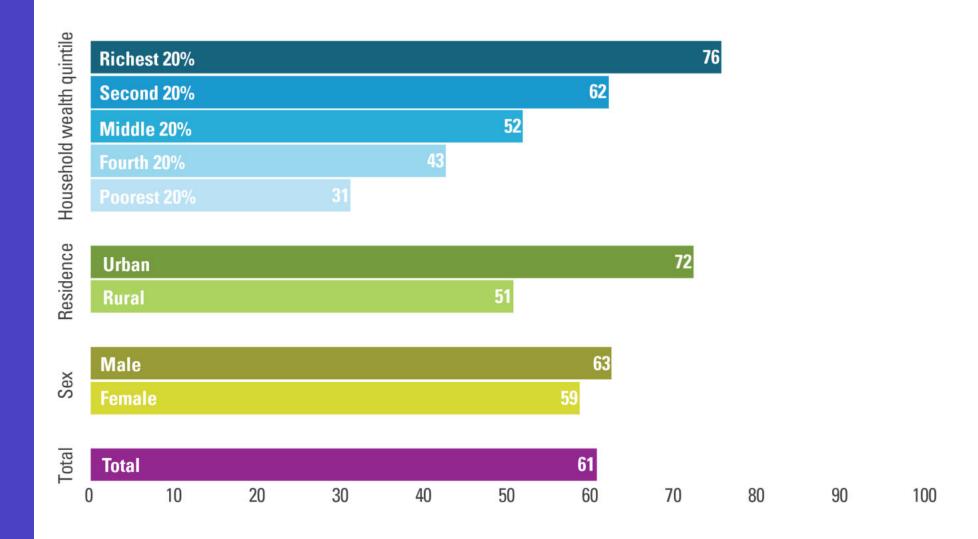
The net enrolment ratio is the number of boys and girls of the age of a particular level of education enrolled in that level of education, expressed as a percentage of the total population in that age group.

Source: UNESCO Institute for Statistics global databases, 2015

Secondary school net attendance rate (percentage) by household wealth quintile, sex, and residence, 2009–2014.

In many countries, poorer children are far less likely to attend school than their wealthier peers.

Notes: Calculation is based on the most recent household surveys conducted from 2009-2014 except 2005-06 data from India. The average was calculated based on weighted net attendance rates. Secondary school-age populations were used as the weights.



Source: UNICEF global databases, 2016



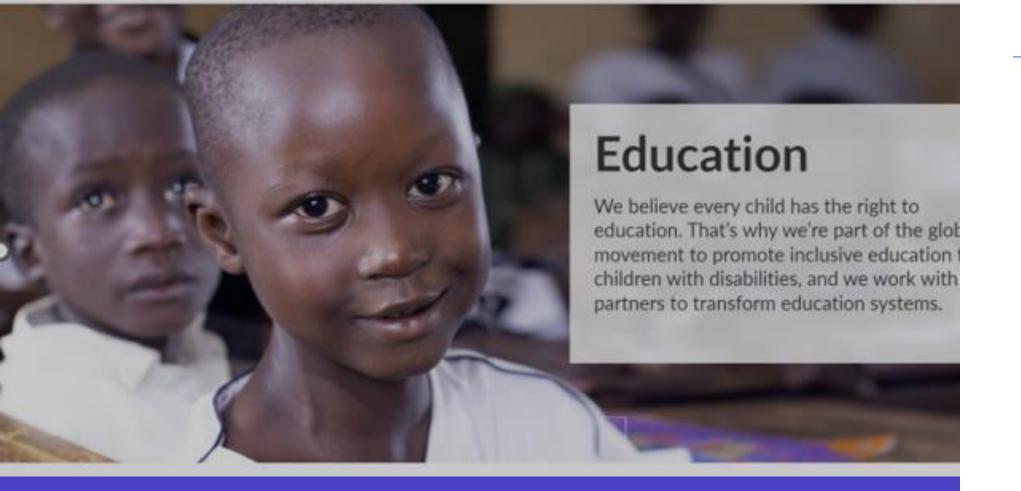


Target 4.5

By 2030, eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with:

- disabilities,
- indigenous peoples and
- children in vulnerable situations.





### **Inclusive Education**



### **Inclusive Education**

To close the education gap for children with disabilities, UNICEF supports government efforts to foster and monitor inclusive education systems. UNICEF work focuses on four key areas:

**Advocacy**: UNICEF promotes inclusive education in discussions, high-level events and other forms of outreach geared towards policymakers and the general public.

**Awareness-raising**: UNICEF shines a spotlight on the needs of children with disabilities by conducting research and hosting roundtables, workshops and other events for government partners.

**Capacity-building**: UNICEF builds the capacity of education systems in partner countries by training teachers, administrators and communities, and providing technical assistance to Governments.

**Implementation support**: UNICEF assists with monitoring and evaluation in partner countries to close the implementation gap between policy and practice.







Only 50% of children with disabilities in developing countries go to school.

Source: Every Child Learns UNICEF Education Strategy 2019–2030

### **Education is vital to meeting the Sustainable Development Goals**

### Every child learns

UNICEF released its own <u>Education Strategy 2019–2030</u>, 'Every Child Learns', outlining three distinct goals:

- (1) Equitable access to learning opportunities;
- (2) Improved learning and skills for all; and
- (3) Improved learning and protection for children in emergencies and fragile contexts.

Source: Every Child Learns UNICEF Education Strategy 2019–2030

### **Migrants**

Refugee and migrant integration into education and training

Students with a refugee or migrant background often face difficulties adjusting to a new learning environment.

**Source; EuropEuropean Education Area** Quality education and training for all



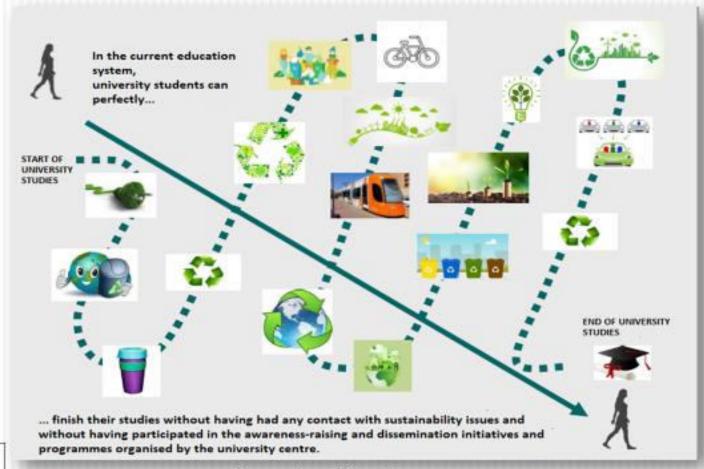
### Inclusion of Refugees into the Rwandese national education system

In partnership with UNHCR, the Government of Rwanda strives to integrate 100% of refugee children into national school systems.



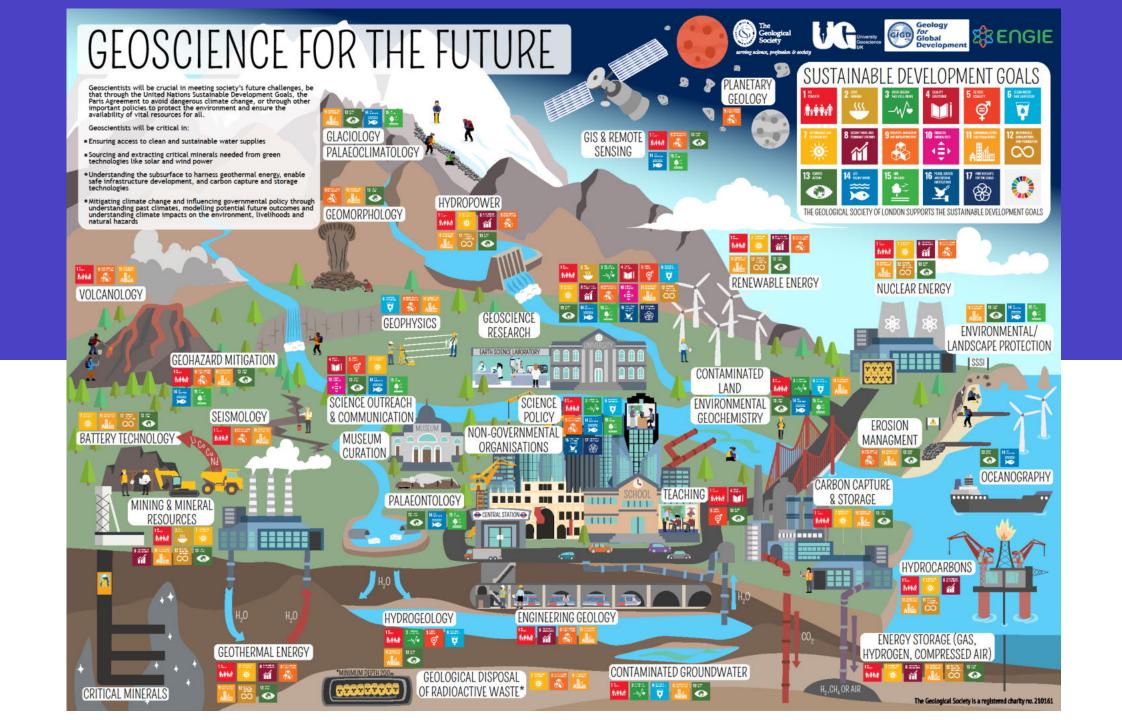
EDUCATION FOR SUSTAINABLE DEVELOPMENT AND GLOBAL CITIZENSHIP

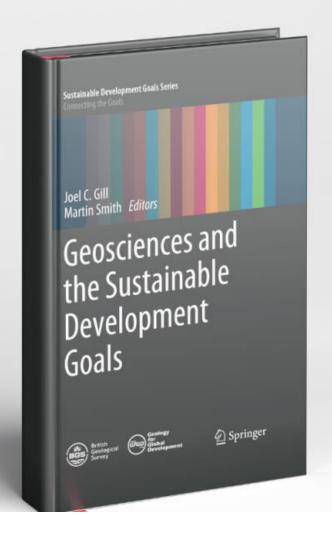
### 1. The role of teachers in education for Sustainable Development



Javier Martinez Falcó Assistant Professor at UA javier.falco@ua.es

Source: Own elaboration



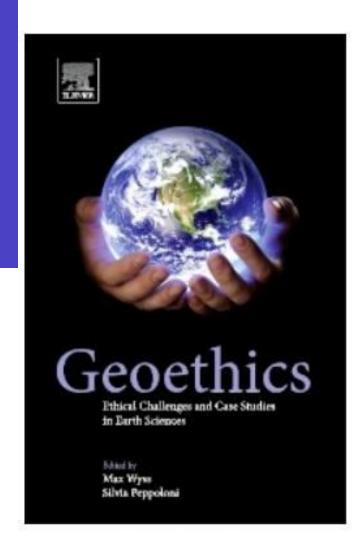


### **BOOK LAUNCH**

### GEOSCIENCES AND THE SUSTAINABLE DEVELOPMENT GOALS

Editors: Joel C. Gill and Martin Smith

Delivered by the British Geological Survey and Geology for Global Development, involving 42 authors from six



### Geoethics

Ethical Challenges and Case Studies in Earth Sciences

1st Edition - November 13, 2014



Editors: Max Wyss, Silvia Peppoloni

eBook ISBN: 9780128000762

Hardcover ISBN: 9780127999357



### Three means of implementation

### 4.a Effective learning environments

Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, non-violent, inclusive and effective learning environments for all.

### 4.b Scholarships

By 2020, substantially expand the number of scholarships available to developing countries globally, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and information and communications technology, technical, engineering and scientific programs, in developed countries and other developing countries.

### 4.c Teachers and educators

By 2030, substantially increase the supply of qualified teachers, including through international cooperation for teacher training in developing countries, especially least developed countries and small island developing States.



# Girls not allowed to go to schools

### Afghanistan: A country that bans girls' education

By Tooba Neda Safi



### Teachers murdered when they go school

INTERVIEW: In 11 years, 2,295 teachers were killed in North-east Nigeria – UNICEF Chief

In the first half of 2021, Borno has faced a drastic reduction in humanitarian access with an escalation of actions of Non State Armed Groups (NSAGs) targeting teachers and threatening those who support educational activities

By <u>Mojeed</u> Alabi



As Nigeria joins the world today, September 9, 2021, to mark the second anniversary of the International Day to Protect Education from Attacks, the United Nations Children's Fund (UNICEF) Chief of Maiduguri Field Office in Borno State, Phuong Nguyen, speaks with PREMIUM TIMES' Mojeed Alabi, on the impacts of violent attacks on education in North-east Nigeria and the country as a whole.

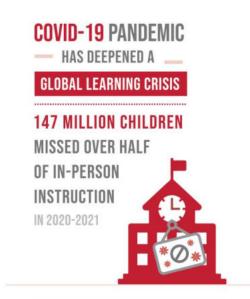
### COVID-19 pandemic

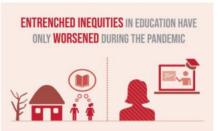
147 million children are estimated to have missed more than half of their in-class instruction over 2020-2022 due to school closures caused by the **COVID-19 pandemic.** This generation of children could lose a combined total of \$17 trillion in lifetime earnings in present value.

Source: The Sustainable Development Goals Report 2022



### ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL









### MANY COUNTRIES ARE **IMPROVING** SCHOOL INFRASTRUCTURE AS CLASSROOMS REOPEN



















# Nigeria and COVID 19 Pandemic

- According to the Nigerien National Education Plan for 2020-22, only **42 per cent of girls** are enrolled in basic education. Compare this with 58 per cent of boys.
- **HOW** many children in Niger were reported as being out of school at the start of 2020: **2.6 million**
- Extreme poverty, unsafe schools, and low-quality education contribute to low access. The pandemic has exacerbated this learning crisis, with a further 1.2 million children estimated to be out of the classroom due to restrictive pandemic measures in July 2020.

### War in Ukraine

Ukraine: More than half of children missing out on education due to blackouts

**Survey** 17 Nov 2022/source Save the Children



Save the **Children Country Director in Ukraine** said:

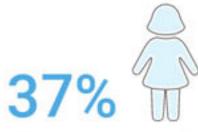
"Thousands of schools have been damaged by shelling and missile strikes, and hundreds are completely destroyed. The power cuts and rolling blackouts rob the millions of children who learn online of their education.

Knowledge is important, but the school also provides an opportunity to connect with their peers and to support one another through a very difficult time. "

A teacher from Kyiv region said:

"The teachers do their best. We attach video lessons, we create presentations, we send out lessons to those who couldn't connect to the internet."

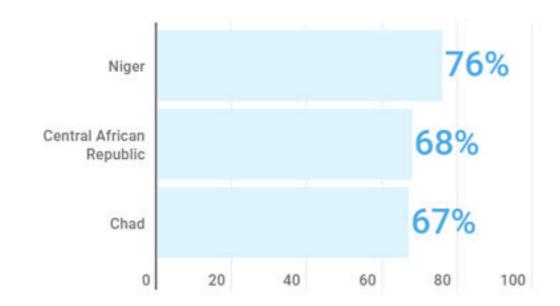
# WHERE DOES CHILD MARRIAGE HAPPEN MOST?



of young women in sub-Saharan Africa married before age 18.



% of young women who married before their 18th birthday



# Child marriage

Source: UNICEF

# Children with bad nutrition and no water







### Water doesn't come from a tap I UNICEF

Thirteen-year-old Aysha spends about 8

hours fetching water daily in Ethiopia, where she lives.

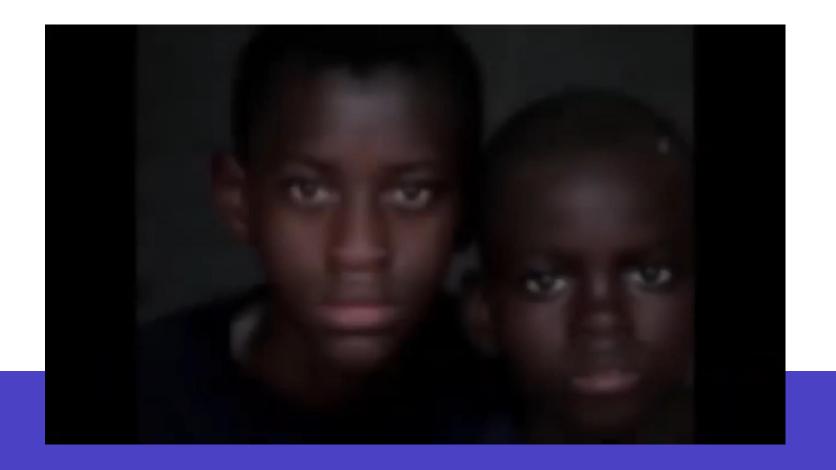
Children in the labour market:

mining









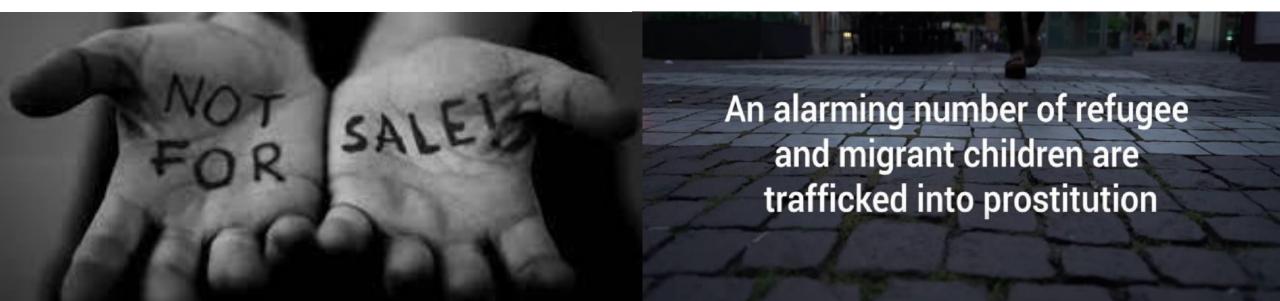
### Congo and the last call: Educational resource





Children make up almost one-third of all human trafficking victims worldwide

World Trafficking Day 2018 - UNICEF





### (Geo) TEACHERS AS LEADERS OF CHANGE

### What is a leader of change?

Social innovators, or Leaders of Change, are the individuals, movements, or organisations that can bring to light social issues and suggest novel solutions while garnering support from the rest of society. Therefore, social innovators must be able to identify societal problems and earn the trust, passion, and commitment of many people regarding an issue they find worthy of being solved to be able to successfully promote and implement social change through the collective action of society.

(Silva, J. & Vasconcelos, C., 2021)







### Education for

Sustainable Development Goals

**Learning Objectives** 



### Teachers as leaders of change

• Educators are powerful change agents who can deliver the educational response necessary to achieve Sustainable Development Goals (SDGs).

• Their expertise and skills are essential for restructuring educational processes and institutions to promote sustainability.



"Education is the most powerful weapon which you can use to change the world"

Nelson Mandela

"There was a great teacher somewhere in your life."

**Barack Obama** 

### TEACHERS AS LEADERS OF CHANGE

### **Traditional activities**

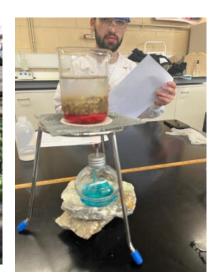








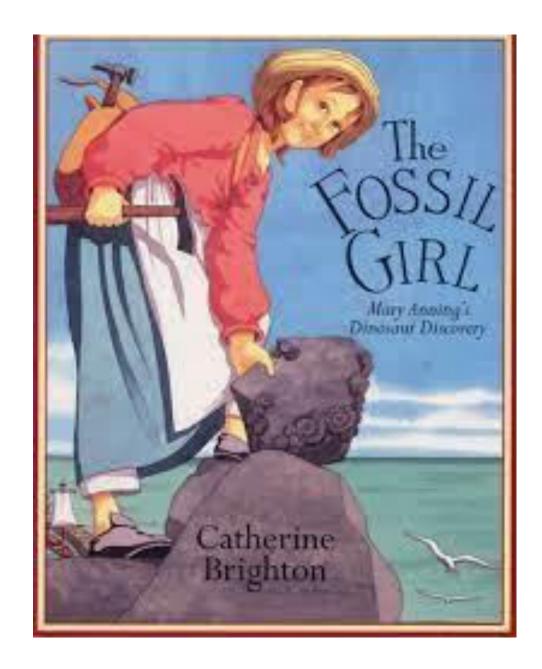




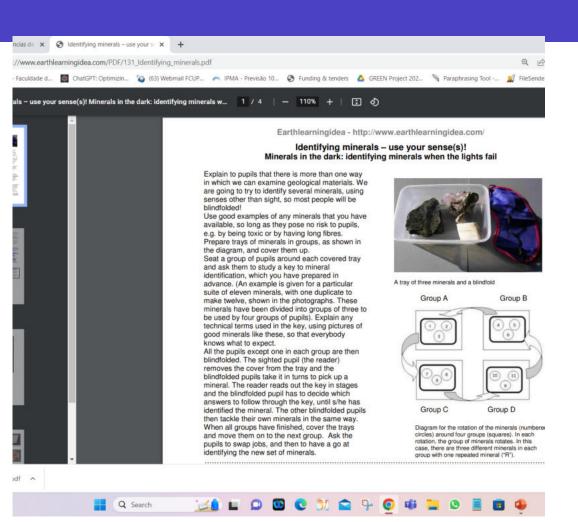




### Women in Geosciences



# Activities to engage students with educational special needs



### **Earth Learning Idea**

Identifying minerals - use your sense(s)!

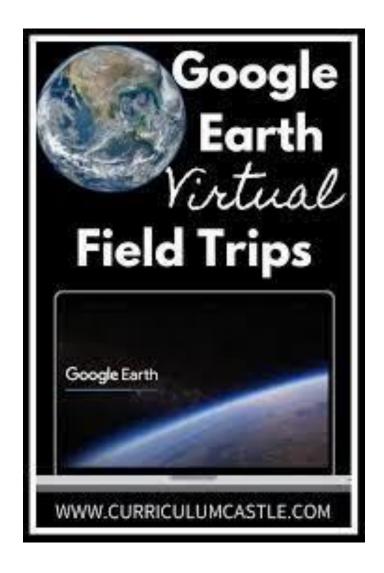
Minerals in the dark: identifying minerals when the lights fail.

### From traditional to digital: Virtual or online field trips

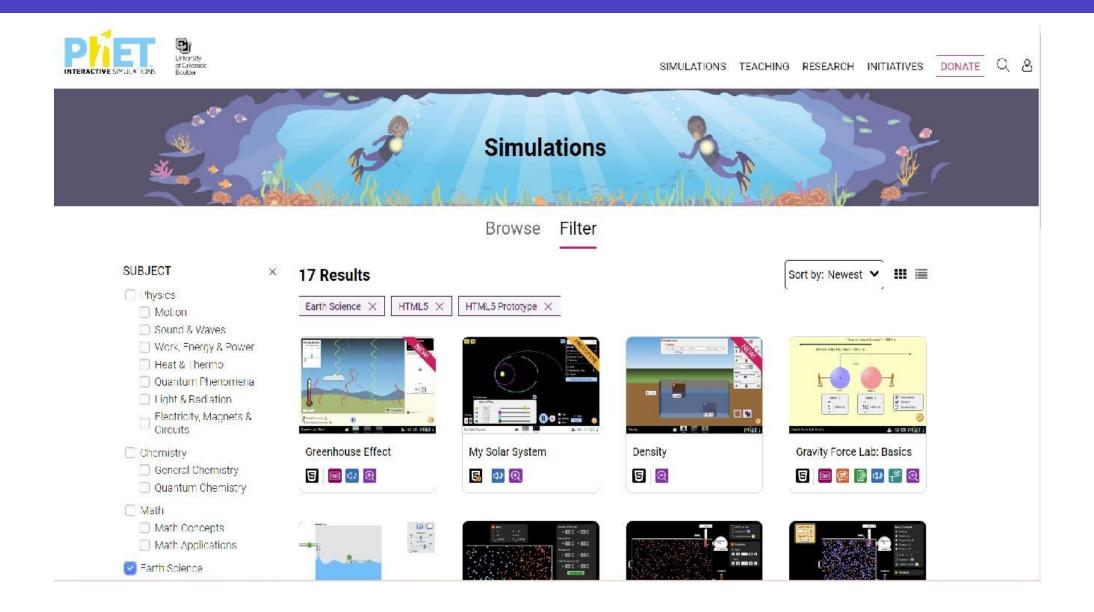
### Imperial geoscientists complete UK's first MSc virtual field trip by Murray MacKay 11 May 2020



As part of the College's move to remote learning, thirty-five MSc Petroleum Geoscience students embarked on a simulated overseas trip to the Pyrenees.

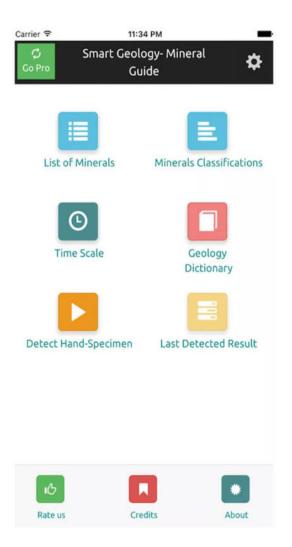


### From traditional to digital: online models

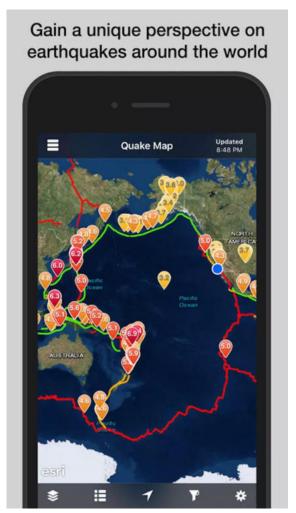


### From traditional to digital: apps











### But we all know that ...



# Equitable Education for ALL





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Clara Vasconcelos

Interdisciplinary Centre of Marine and Environmental Research (CIIMAR)

Faculty of Sciences of the University of Porto (FCUP)

Portugal

Thank you



**GIFT 2023**