

FCHgo - Fuel Cell HydroGen educatiOnal model for schools

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FCHgo PARTNERS





UNIMORE

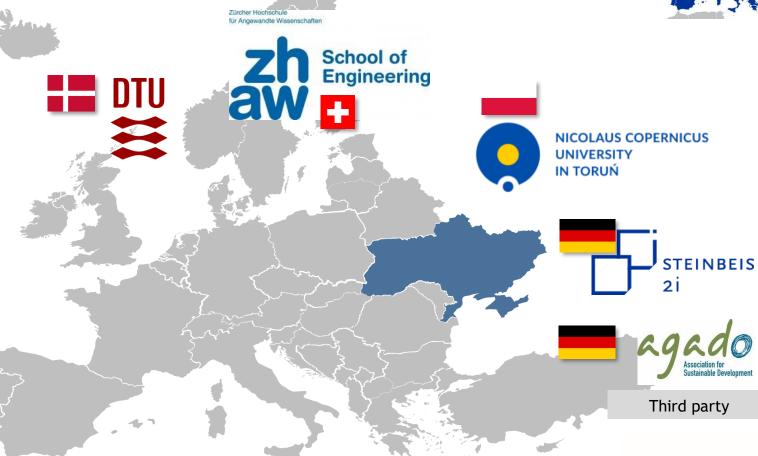
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA



Freie Universität Bozen Libera Università di Bolzano Università Liedia de Bulsan















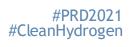


THE PURPOSE OF THE PROJECT





- ✓ Empowering the young generation for the energy transition
- To spread knowledge about FUEL CELLS and HYDROGEN in schools and beyond, fostering curiosity and excitement about renewable energy.
- To bring about change by delivering a ready-to-teach toolkit, encouraging teachers to take up hydrogen in lessons and stimulating pupils' interest and awareness for sustainable energy.
- Based on NARRATIVE and playful elements the FCHgo school materials shall bridge the STEM knowledge gap and teach pupils from 8 to 18 years about the basic principles and applications of fuel cell and hydrogen technology. Overall, the FCHgo activities shall contribute to build up pupils' STEM competences and prepare them for a fossil-free future.









THE NARRATIVE AND METAPHORIC APPROACH



- Children, as well as grown-ups, learn through stories and experiences. Starting from this knowledge, FCHgo applies a **narrative** and **metaphoric** approach to science learning (Fuchs, 2015).
- The narrative gives a structure to the metaphors. Stories are a type of narration that help pupils to understand aspects of the forces of nature and their relationships.
- A narrative approach thus places much emphasis upon the use of natural language, images, and plays for ensuring an imaginative and qualitative understanding of a scientific or technical system.





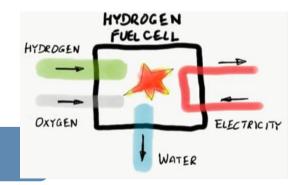






THE FCHgo TOOLKIT

VALIDATED in January 2021 Available in 10 languages



Introduction to Fuel Cells and Hydrogen Technology

Comprehensive teacher guides on FCHgo lessons for pupils

Apple story

Water and Light

The Perpetuum Mobile movie

Toys/Analysis of Models

Energy playing cards

PowerPoint presentations & videos for pupils (age 13-18)













FCHgo IN ACTION

Teacher training



Classroom activities





- 5 countries (Italy, Switzerland, Poland, Germany, and Denmark)
- 1500 students (more than expected -900 in the phase of Project planning)
- 90 teachers









FCHgo DISSEMINATION









@fch_go



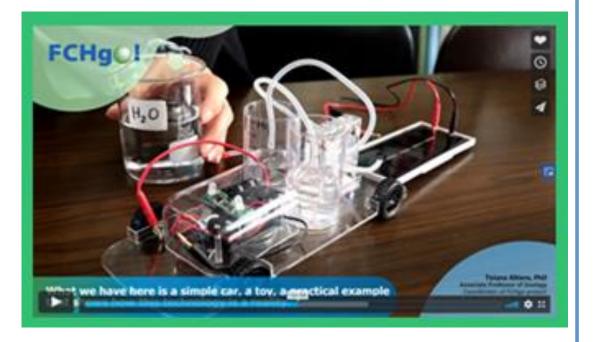
www.fchgo.eu

Social Media and website

Twitter: 637 followers; LinkedIn: 331 connections; Instagram: 378 subscribers.



Promotional Video











FCHgo DISSEMINATION

Stakeholder interviews









Cards





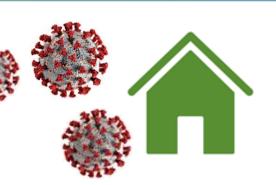






FCHgo AT HOME

It is a selection of materials of the FCHgo toolkit, which are particularly easy to do at home.



- In the context of the closure of schools in many countries around the world at this time of health emergency due to the COVID-19, the "FCHgo at Home" initiative intended to extend the participation in the FCHgo project also to those who:
 - are staying at home with their families,
 - are engaged in distance learning,
 - are curious to learn about hydrogen.







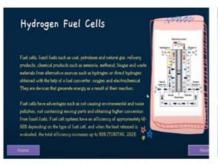


FCHgo AWARD

World of the future: the best FCH application

https://fchgo.eu/news/winners-of-the-international-fchgo-award/

Teams of pupils are invited to submit a project — a movie, photo story, collage, model, or any other creative product focusing on future application(s) of FCH technology.
 Teachers, parents and industry stakeholders are encouraged to support pupils' applications.





Total number of candidate projects: 221 from 3 countries:

Italy: 12 projects

Poland: 47 projects

Turkey: 162 projects



Winners of the International FCHgo Award

15.06.2021



Participation to the International FCHgo Award:

- About 100 people
- Around 70 connections on Zoom (several of them from entire teams of students).















