

Presentation of **CO<sub>2</sub>nnect – CO<sub>2</sub> on the way to school**,  
an international school campaign for education for sustainable development (ESD)  
on the theme of climate and transport.

CO<sub>2</sub>nnect is presented by the partners and members of the project  
SUPPORT - Partnership and participation for a sustainable tomorrow.



Education and Culture DG

Comenius Lifelong Learning Programme

*The SUPPORT project has received funding 2007-2010 from the EU Comenius Lifelong Learning Programme.*

*The responsibility for this publication lies solely with the project partner that has produced this information.  
The EU Education Audiovisual and Culture Executive Agency is not responsible for any use that may be made of this information.*

The United Nation's goal for Education for Sustainable Development (ESD) is to integrate the principles, values and practices of sustainable development into all aspects of education and learning ~

It is our pleasure to present to you an international school campaign which will suit you whether it is your first time to be acquainted with the concept or if you already using the approach in your teaching ~

# Overall goal of the CO<sub>2</sub>nnect campaign

- The long-term purpose of the campaign is to improve the understanding and practice of Education for Sustainable Development
- An important part of this is to create systems of committed cooperation between, **schools, decision-makers** and **researchers**
- To achieve this, schools are offered an international, internet-based school activity in which schools, researchers and local decision-makers cooperate. By joining the campaign, your school will be part of a large network of schools



# Objectives of the CO<sub>2</sub>nnect campaign

- Engage a large number of schools, pupils, parents and communities to work with sustainable development in the field of climate and transport
- Increase pupils' competencies in ways described in the learning goals
- Increase schools' competency to deliver high quality ESD
- Provide ICT based tools including guidelines, links, a CO<sub>2</sub> transport emissions calculator and opportunities for partnership
- Generate information useful to research and management about transport- and climate issues
- Generate innovative ideas for sustainable transport



# The campaign involves

- school pupils investigating **carbon emissions** from travel to school
- to share the findings using an international database and
- to compare and discuss CO<sub>2</sub> emissions from transport
- learning more about climate change and developing ideas on how to reduce CO<sub>2</sub> emissions from transport
- to generate and share ideas on how to reduce CO<sub>2</sub> emissions
- using this information to **cooperate with local decision makers to reduce CO<sub>2</sub> emissions** in local communities



learning outcomes in the CO<sub>2</sub>nnect campaign are

- of the interconnected mobility- and climate change issue
- climate change, its causes and consequences
- greenhouse-gas emissions from transport and mobility
- the interlinking of social, environmental, cultural and economic aspects of the local transport system
- how individual choices and participation can contribute to creating a more sustainable development



learning outcomes in the CO<sub>2</sub>nnect campaign are

- actively participate in local democratic processes
- interact with local decision-makers
- collaborate with researchers and generate reliable information
- create innovative proposals and suggest alternatives for a more sustainable society
- use ICT and the internet interactively for partnership and data analysis
- act and think autonomously



learning outcomes in the CO<sub>2</sub>nnect campaign are

## Awareness

- sensitivity to and awareness of the effect of transport on climate change and the sustainability issues raised by climate change
- awareness that each person has a role in climate change, including CO<sub>2</sub> emissions from transport





learning outcomes in the CO<sub>2</sub>nnect campaign are

- develop concern about the climate change issue, its causes and impacts
- develop motivation to participate in decision-making for a more sustainable society
- realize that they have opportunities to help create a more sustainable society, both as individuals and through common actions





what to do?

# The 10 steps of the campaign

- 1 Plan and prepare for the campaign. Get familiar with the website, approach and activities. Make a school/class plan for your work with the campaign. Find local partners or school partners and plan how you will cooperate
- 2 [Sign up](#) to participate
- 3 Introduce topics of climate change, CO<sub>2</sub>, and school transport
- 4 Collect data on distance to school and means of transportation and enter it into the international database
- 5 Complete a short online questionnaire on climate- and transport issues
- 6 Analyse and discuss your results; compare your CO<sub>2</sub> emissions from transport with that of other schools and countries

7

We encourage you to work closely with local authorities, parents, businesses, organisations or other stakeholders during the project. You could present and discuss your findings. Then explore together how the local transportation systems could be made more sustainable. What policies or programmes does your school or community already have for transport and climate gas emissions?

8

Develop ideas for reducing climate emissions from transport. Upload your climate idea and photos from your work

9

Submit your project work to an international school competition

10

Evaluate the campaign and become a SUPPORT school (teachers, optional)



# Sign up

Go to [www.co2nnect.org](http://www.co2nnect.org), choose "sign up" and click "new user" to get a teacher's account.

(If you already have a user account on **sustain.no** or **miljolare.no**, please, select sign-up for existing users.)



# Estimate the distance to school

This can be done in several ways:

- Use internet tools like [Google Maps](#)
- Trace the school way on a map and scale it up
- Use a car or bike odometer
- Use a GPS
- Count your steps or use a pedometer/stepcounter and multiply with length of pace



# Estimate CO<sub>2</sub>



|                         |               |                          |                      |                          |
|-------------------------|---------------|--------------------------|----------------------|--------------------------|
| <b>Name:</b>            |               |                          |                      |                          |
| <b>Birth year:</b>      |               |                          |                      |                          |
| <b>Tick a category:</b> | <b>Male:</b>  | <input type="checkbox"/> | <b>Female:</b>       | <input type="checkbox"/> |
| <b>Tick a category:</b> | <b>Pupil:</b> | <input type="checkbox"/> | <b>School staff:</b> | <input type="checkbox"/> |

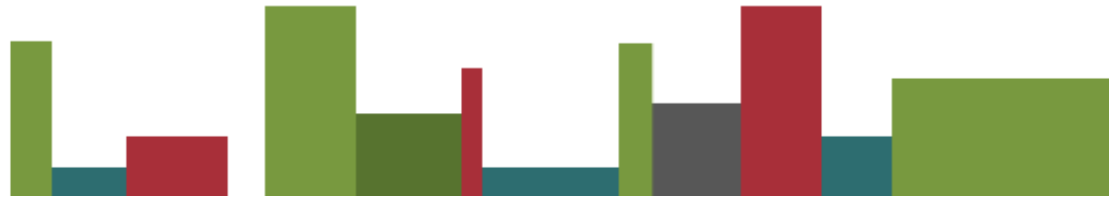
| Which mode(s) of transport did you use to get to school today? | CO <sub>2</sub> multiplier (kg CO <sub>2</sub> per km per passenger ) | Distance to school? (in km, one direction) |
|----------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------|
| foot                                                           | 0                                                                     |                                            |
| bicycle                                                        | 0                                                                     |                                            |
| by animal transport                                            | 0                                                                     |                                            |
| rickshaw/trishaw                                               | 0                                                                     |                                            |
| moped                                                          | 0.073                                                                 |                                            |
| motorcycle                                                     | 0.094                                                                 |                                            |
| auto rickshaw                                                  | ?                                                                     |                                            |
| snowmobile                                                     | 0.094                                                                 |                                            |
| car electric                                                   | 0.043                                                                 |                                            |
| car small                                                      | 0.11                                                                  |                                            |
| car medium                                                     | 0.133                                                                 |                                            |
| car large                                                      | 0.183                                                                 |                                            |
| car hybrid                                                     | 0.084                                                                 |                                            |
| taxi                                                           | 0.17                                                                  |                                            |
| bus                                                            | 0.069                                                                 |                                            |
| mini bus                                                       | 0.055                                                                 |                                            |
| diesel train                                                   | 0.06                                                                  |                                            |
| electric train                                                 | 0.065                                                                 |                                            |
| underground/metro                                              | 0.065                                                                 |                                            |
| electric tram/trolley bus                                      | 0.042                                                                 |                                            |
| ferry                                                          | 0.115                                                                 |                                            |
| express boat                                                   | 0.53                                                                  |                                            |
| other mode(s)<br>(please specify)                              | -                                                                     |                                            |

Under Results in the main menu, you can find pages listed below



|                                            |   |                                                                                                                                                                                                          |
|--------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CO<sub>2</sub> emissions</b>            | → | gives the "total" results of all reporters                                                                                                                                                               |
| <b>CO<sub>2</sub> by transport modes</b>   | → | shows emissions per transport mode                                                                                                                                                                       |
| <b>Transport practice</b>                  | → | shows the number of reporters that have used the various transport modes                                                                                                                                 |
| <b>CO<sub>2</sub> by country</b>           | → | shows a country-wise listing of school-way distance and CO <sub>2</sub> emission figures                                                                                                                 |
| <b>CO<sub>2</sub> by school</b>            | → | lists school-way distance and CO <sub>2</sub> emission figures for participant school                                                                                                                    |
| <b>Questionnaire part one</b>              | → | shows the results of the first part of the questionnaire                                                                                                                                                 |
| <b>CO<sub>2</sub> by questionnaire one</b> | → | for further investigation of how CO <sub>2</sub> -emissions vary with the modes of transport and distance to school among the respondents. You can also compare with other factors, like gender and age. |
| <b>Questionnaire part two</b>              | → | shows the results of the second part of the questionnaire                                                                                                                                                |
| <b>CO<sub>2</sub> by questionnaire two</b> | → | see the results of participants linked to how they have answered the questionnaire.                                                                                                                      |
| <b>Map of contributors</b>                 | → | shows schools that have uploaded results                                                                                                                                                                 |
| <b>Climate ideas</b>                       | → | see the suggestions from participating schools for how to reduce CO <sub>2</sub> emissions                                                                                                               |
| <b>Photo gallery</b>                       | → | look at photos and images uploaded by participant schools                                                                                                                                                |





**Photo gallery**

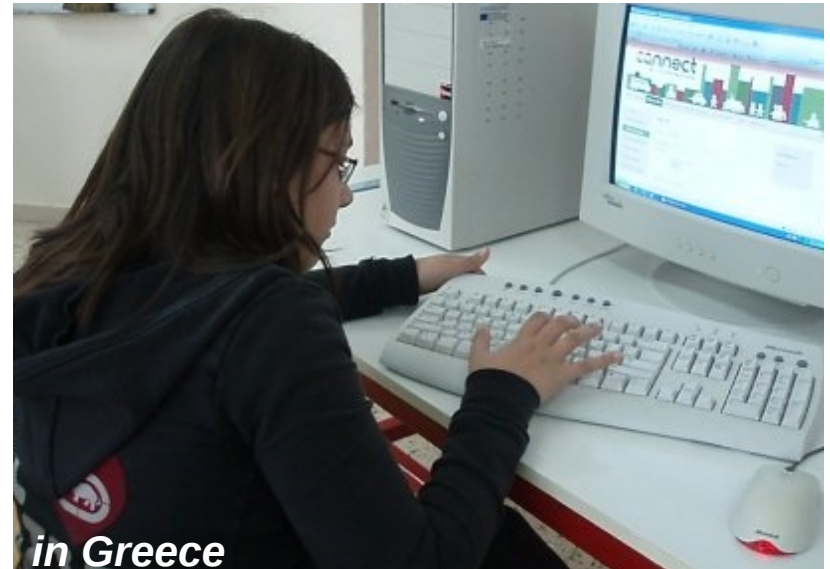
*Entering data into the data base*



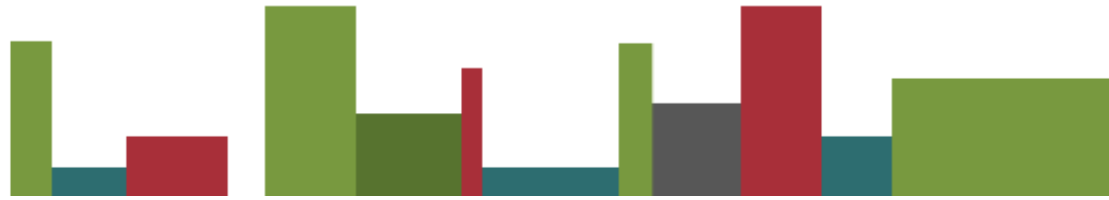
*in Thailand*



*in Romania*



*in Greece*



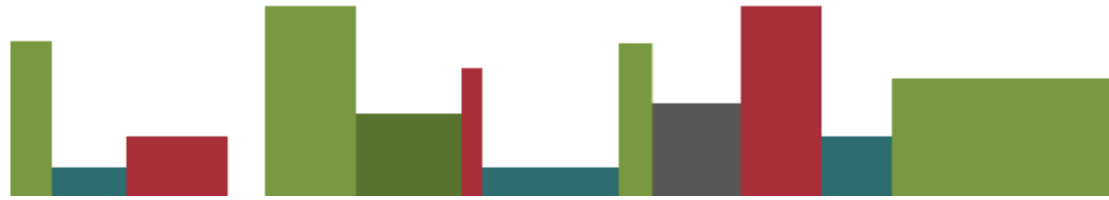
*Understanding and making reflections about the environmental issues discussed*



*"Wish list for Earth" (Norway)*



*"Talking about CO<sub>2</sub> and searching for manners to decrease our CO<sub>2</sub>-production." (Belgium)*



## Photo gallery

*Ideas for how to reduce CO<sub>2</sub> emissions can be presented in various ways.*

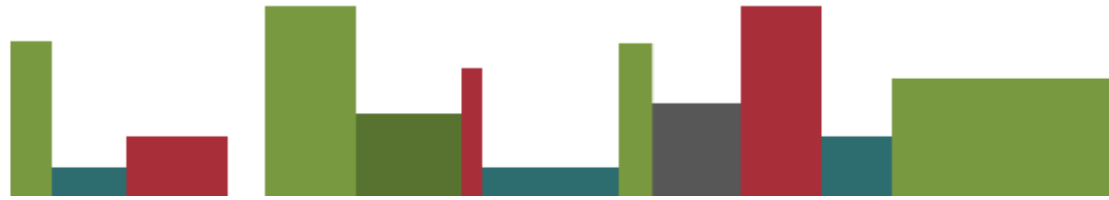
A poster about CO<sub>2</sub> emissions. (Romania)



*Students' presentation of a CO<sub>2</sub>nnect project in the class room (Slovenia)*



*"They wrote lyrics as a product of the ideas to reduce emissions." (Turkey)*



# Photo gallery

*Raising public awareness...*



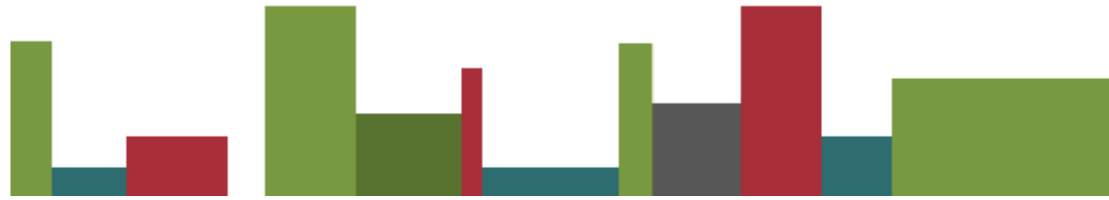
*"Our children decided to lie down to get their message across to parents parking on the zig zag lines" (UK)*

*Street poll.  
(Romania)*



*Getting airtime  
on the local  
radio station  
(Romania)*





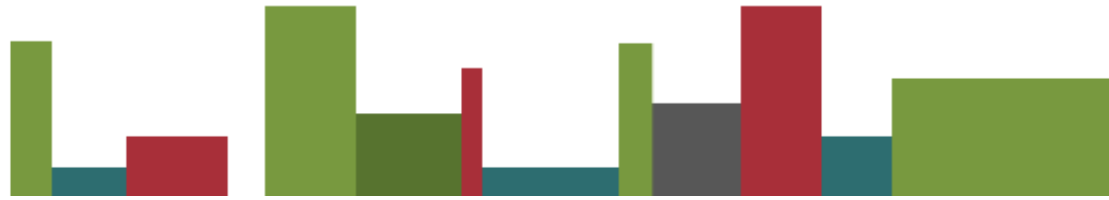
*Interacting with authorities, learning to be active citizens*



*"We interviewed the mayor of Bergen. We asked him a lot of questions about the climate crisis and what Bergen does to stop it." (Norway)*

*Pupils in action for less traffic. Assisted by the police. (Romania)*





*Getting the whole school involved*

*“Presenting the project idea to the principal”  
(Belgium)*



*“Launching of CO<sub>2</sub>nnect”. The banner says: “My school is taking part in this campaign”. (Malaysia)*



CO<sub>2</sub>nnect – around the world!

connect  
CO<sub>2</sub> on the way to school

обална училишна кампања за сообраќај и клима

обрододовте во СО<sub>2</sub>врска  
училишна кампања што се фокусира на емисиите на СО<sub>2</sub> и со  
ие треба да се бориме за да им дадеме на учениците компетенции што нив  
злезат во пресрет со одржливиот развој-вклучително и климатските проме  
Обединетите нации. Активностите може лесно да се прилагодат на различни  
поврзат со програмите на многу предмети.

СО<sub>2</sub>врска училишни активности

انضم إلى الآف المدارس حول العالم  
في التريبة من أجل الإستدامة

connect  
CO<sub>2</sub> on the way to school

الحملة العالمية حول وسائل النقل  
والتغير المناخي



connect  
CO<sub>2</sub> on the way to school

碳网络学校活动由“support - 合作和参与, 为了一个可持续发展的明天”项目(2007-2010)发起, 由欧盟终身教育项目赞助, 旨在宣传和加强可持续发展教育。

详情请参阅 [www.support-edu.org](http://www.support-edu.org),  
网站和数据库的技术支持由 [sustain.no](http://sustain.no) 提供。



Education and Culture DG  
Comenius Lifelong Learning Programme

هذا البرنامج ممول من قبل الاتحاد الأوروبي.

connect  
CO<sub>2</sub> on the way to school

الجهة المنظمة للمسابقة  
تم تنظيم مسابقة CO<sub>2</sub>nnect عن طريق الشركاء في مشروع التشاركة  
والمشاركة لعدد مستدام والممول من قبل الاتحاد الأوروبي خلال الأوامر من  
2010-2007 ضمن برنامج التعلم مدى الحياة بهدف تعزيز التعليم من  
أجل التنمية المستدامة.

لمزيد من المعلومات،  
www.support-edu.org  
أن حلول قاعدة البيانات وموقع المسابقة تم تنفيذها عن طريق [sustain.no](http://sustain.no)



Education and Culture DG  
Comenius Lifelong Learning Programme

لقد تم تمويل هذا المشروع بدعم من المفوضية الأوروبية.  
هذه النشرة تعكس وجهة نظر المؤلف ولا تتصلب المفوضية أي مسؤولية لأي استخدام لهذه المعلومات



Education et Culture  
Comenius Programme  
tout au long de la vie

هذا البرنامج ممول من قبل الاتحاد الأوروبي.

与全球万千学校一起参与可持续发展教育

connect  
CO<sub>2</sub> on the way to school

一个有关交通和气候变化的国际性校园活动



Rejoignez des milliers d'écoles  
pour une éducation pour le de

connect  
le CO<sub>2</sub> sur le chemin de l'école

l'propos des organisateurs:  
élaboré par les partenaires du projet  
... « financé par le programme européen  
tout au long de la vie (2007-2010).  
Promouvoir une éducation pour le  
développement durable.  
Pour plus d'informations, voir [www.support-edu.org](http://www.support-edu.org).  
Les données sont gérés par [sustain.no](http://sustain.no)

connect  
le CO<sub>2</sub> sur

Une campagne scolaire m  
transports et le changem



## Ask an expert

Here you can ask questions related to emissions of CO<sub>2</sub> and climate change. This column is answered by **Prof. Dr. Christian-Dietrich Schönwiese**, who is a long standing expert on climate research and a former member of the IPCC (United Nation's Intergovernmental Panel on Climate Change).

Please pose your question in English.

### ► Ask a question

Search in questions and answers:

### our world toward 2050... how it could be?

could we imagine based on our participation in your competition the world status toward 2050?

*Marwa Khamees (18.02.2009 18:23)*

Dear Marwa Khamees,

Prof. Schönwiese will respond to questions here from 16 March, when the campaign starts.

In my view, participating in such a campaign as CO2nnect will contribute to raise the awareness about CO<sub>2</sub> emissions and its effect on climate in young people, the decision makers of 2050. Also, an exchange of ideas and results here will, hopefully, result in actions taken in local communities that may improve conditions locally.

I think participation in this campaign will be one small step among the many needed to ensure a sustainable global management by 2050.





## Contact

### ■ FEEDBACK FORM

Use this form to send us at [sustain.no](http://sustain.no) comments, suggestions, typo reports or questions regarding technical issues. Your email address is optional, but we will not be able to send you a response without it. **Please write your comments in English.**

|          |                      |
|----------|----------------------|
| Name     | <input type="text"/> |
| Email    | <input type="text"/> |
| Topic    | <input type="text"/> |
| Comments | <input type="text"/> |

### ■ CONTACT INFORMATION

#### Address:

[sustain.no](http://sustain.no) | Centre of School's Science  
Education, University of Bergen  
Allégaten 41, N-5007 Bergen, Norway

**Email:** [post@sustain.no](mailto:post@sustain.no)

**Phone:** +47 55 58 22 59



- Welcome to CO<sub>2</sub>nnect!
- Timeframe
- Learning outcomes
- Campaign goals
- Partner search**
- Who is behind CO<sub>2</sub>nnect?

"The international campaign 'CO<sub>2</sub>nnect: CO<sub>2</sub> on the way to school' provides schools with a unique opportunity to provide high quality Education for Sustainable Development."



Bård Vegar Solhjell  
Norwegian Minister of Education

"Our future is threatened by a non-toxic and ubiquitous metabolite of the global human civilization: Carbon Dioxide. Encouraging local action is one of the keys to solve the problem. Therefore, CO<sub>2</sub>nnect plays an important role in shifting humankind towards a more

## Partner search

We encourage schools to use **eTwinning** to find partner schools in their work with this campaign, eTwinning is part of Comenius, the EU programme for schools.



### To the eTwinning website

The **eTwinning** site allows schools to communicate and cooperate with each other using the internet. Your school can use eTwinning tools to:

- post a project for others to see
- browse other schools' projects
- search for partners
- create international collaborative projects in any subject area.

Another tool for partner search and project collaboration is the **eee Project**. This site is developed by European Support Centre and the Austrian Chapter of the Club of Rome and aims to raise environmental awareness on a lasting basis.

The SUPPORT secretariat and SUPPORT partners in the country in which you would like to find a partner may also be able to help you find a partner school.

Not logged in.

› Log in

### Recent sign-ups

-  Swelth al-thanywa libnat
-  IES Maria Àngels Cardona
-  scoala cu clasele I-VIII Catcau
-  Koonga Põhikool
-  algetarah

### Most active countries

-  Jordan (12)
-  Romania (8)
-  Germany (3)
-  Thailand (2)
-  Finland (2)
-  Greece (2)
-  Norway (2)
-  Malaysia (2)
-  United Kingdom (1)
-  Bahrain (1)



If you carry out a project as part of your school's CO<sub>2</sub>nnect activities, you can submit a project report to take part in an international school competition.

The first price will be for one teacher and up to three pupils/students

**to present the project at COP15,  
the UN climate conference in Copenhagen,  
in December 2009 .**

# Support

## Partnership and Participation For a Sustainable Tomorrow

O<sub>2</sub>nnect is developed by the partners and members of the EU Comenius Lifelong Learning project “SUPPORT – Partnership and Participation for a Sustainable Tomorrow”. The goal of SUPPORT is to promote and improve knowledge about education for sustainable development (ESD). SUPPORT comprises a network of about 45 partner and member organisations from 24 countries, representing international expertise in the field of ESD.

The SUPPORT website address is: <http://support-edu.org>

The technical implementation of the website and database functions of CO<sub>2</sub>nnect are developed by the Norwegian Directorate for Education and Training and the Centre of Schools' Science Education, University of Bergen, Norway, as part of the educational platform [sustain.no](http://sustain.no) .



The SUPPORT network's joint learning from CO<sub>2</sub>nnect (including what comes out from the evaluation) will be included

- in a report about CO<sub>2</sub>nnect and
- in a publication with ICT guidelines as well as
- used to improve the educational platform [www.sustain.no](http://www.sustain.no) .



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