

Educational support for teachers

& ECEM Demonstrator application development



WEMC

World Energy &
Meteorology Council

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Who are WEMC?

Should I plan a meningitis vaccination drive in my region?

Do I need to plant drought resistant seeds next season?

How much solar energy can we expect to get in this area?

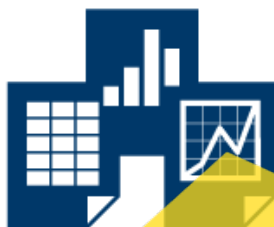
Will we need to evacuate the city due to forecasted heavy rains?

Will we need to start restricting the use of water?

Input

Input

Output



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Educational outreach & support portal



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Teaching Resources

Tailored for your classroom, composed by expert educators

[Educational Resources](#)

[Talks & Visits](#)

[Training & Development](#)

[Education SIG](#)

<http://www.wemcouncil.org/wp/education/>

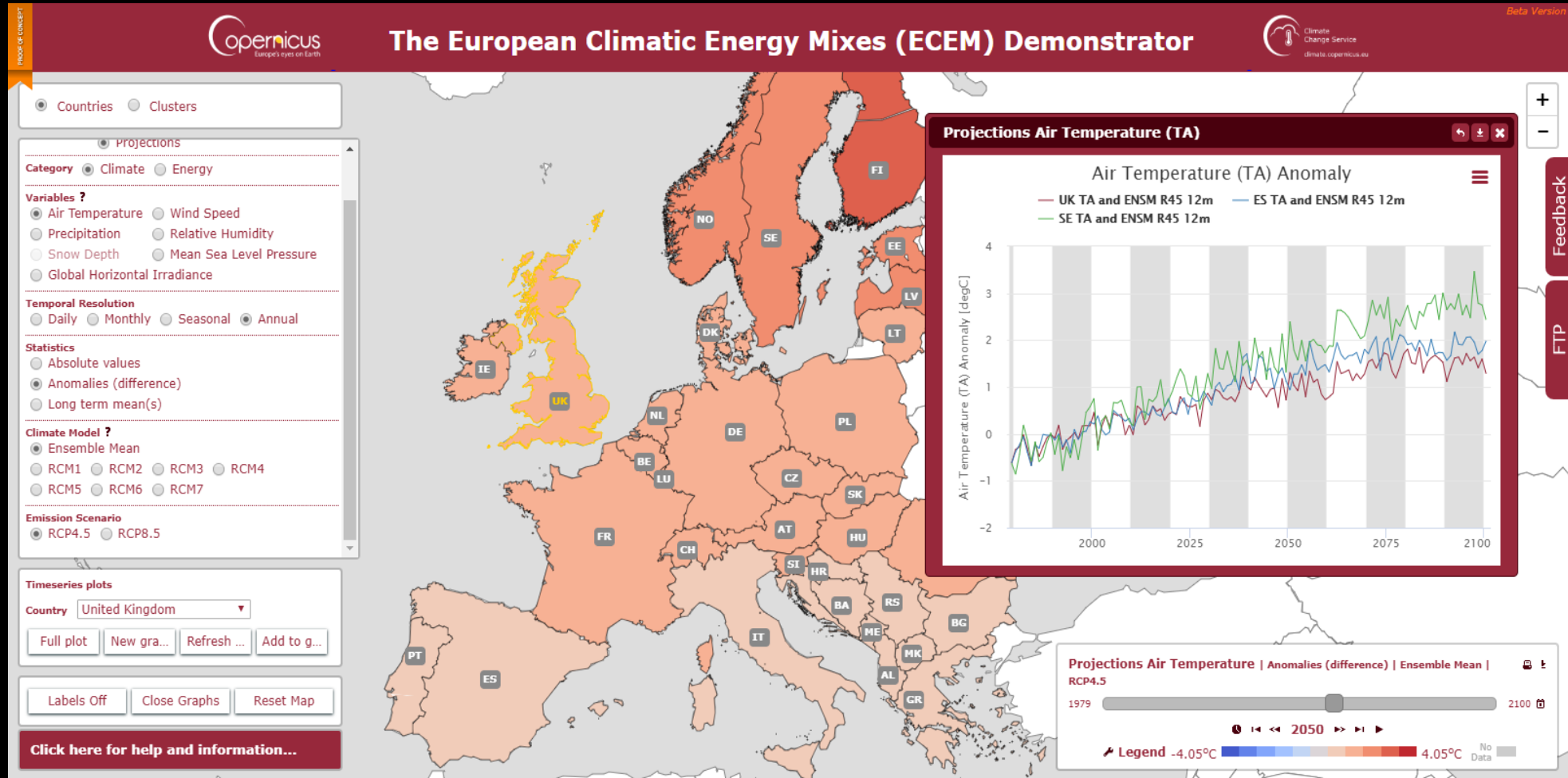
Current and **planned** portal features

For all teachers and educators who teach any aspect of meteorology, climate and energy, no matter the subject, level or syllabus

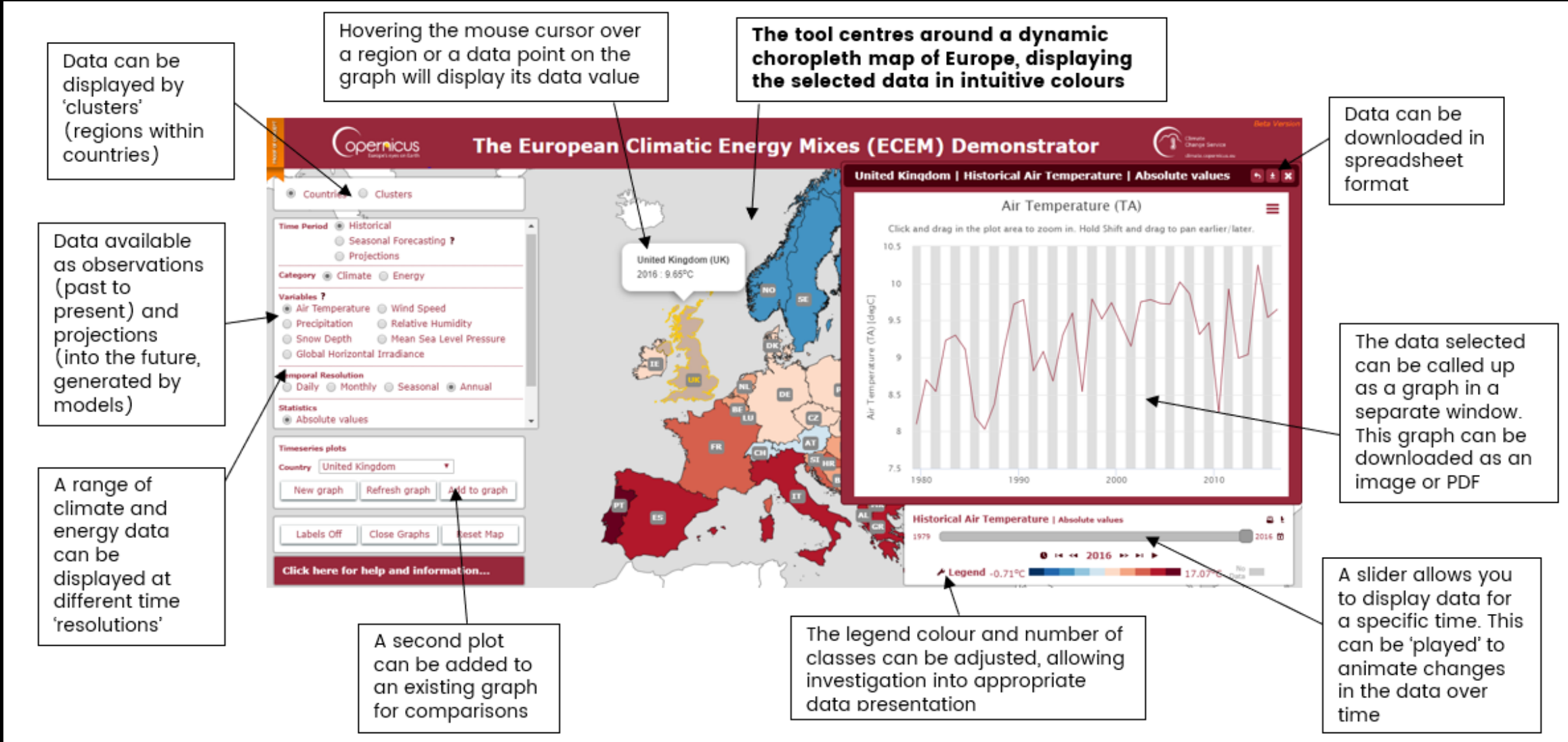
- Teaching Resources – looking for existing resources for the repository: share yours!
 - Teachers to contribute to official publications
 - International collaboration to develop resources
- Book talks, visits and workshops – run by WEMC and its members
- Register for training, CPD and development
 - Critical Thinking CPD (in association with the GA – more later)
 - You'll 'sample' some training shortly
 - Training on how to use climate services for education
 - Training from climate scientists and energy experts
- Education SIG – work along side climate and energy experts to enhance climate and energy education worldwide

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ECCEM Demonstrator



<http://ecem.wemcouncil.org>



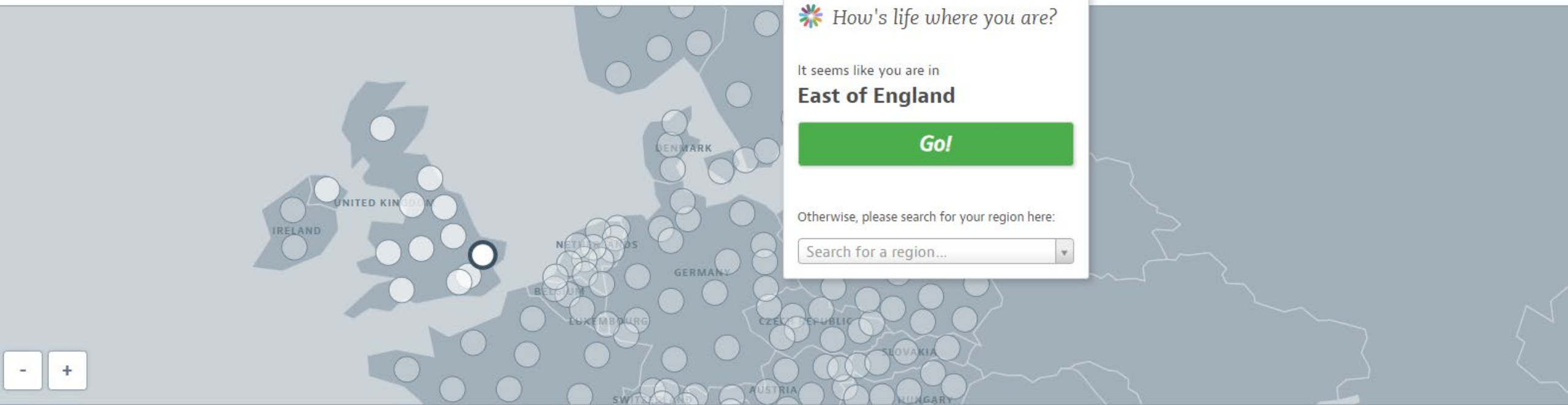
ECEM Demonstrator: Questions for you

- Would you consider using the **ECEM Demonstrator** as part of a lesson?
- What other activities or lessons could the **Demonstrator** be used for? (Help me come up with a 3rd example!)
- In its current form, what aspects of the **Demonstrator** are a barrier to using it in class?

Please help us develop this application further by taking our survey: <https://bit.ly/2PUYWfH>

<http://ecem.wemcouncil.org>

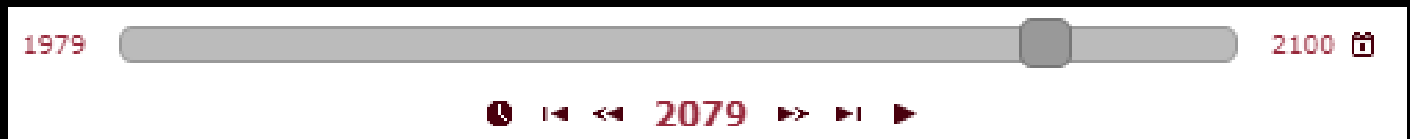
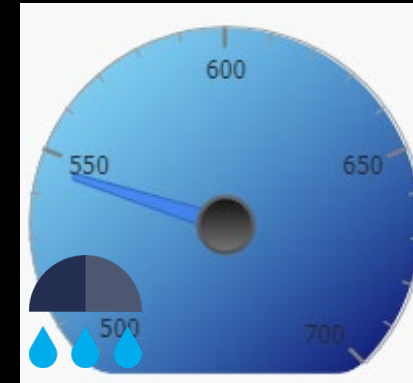
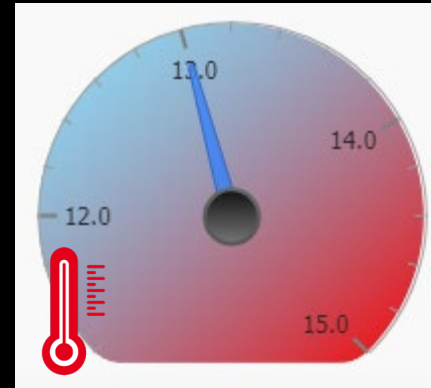
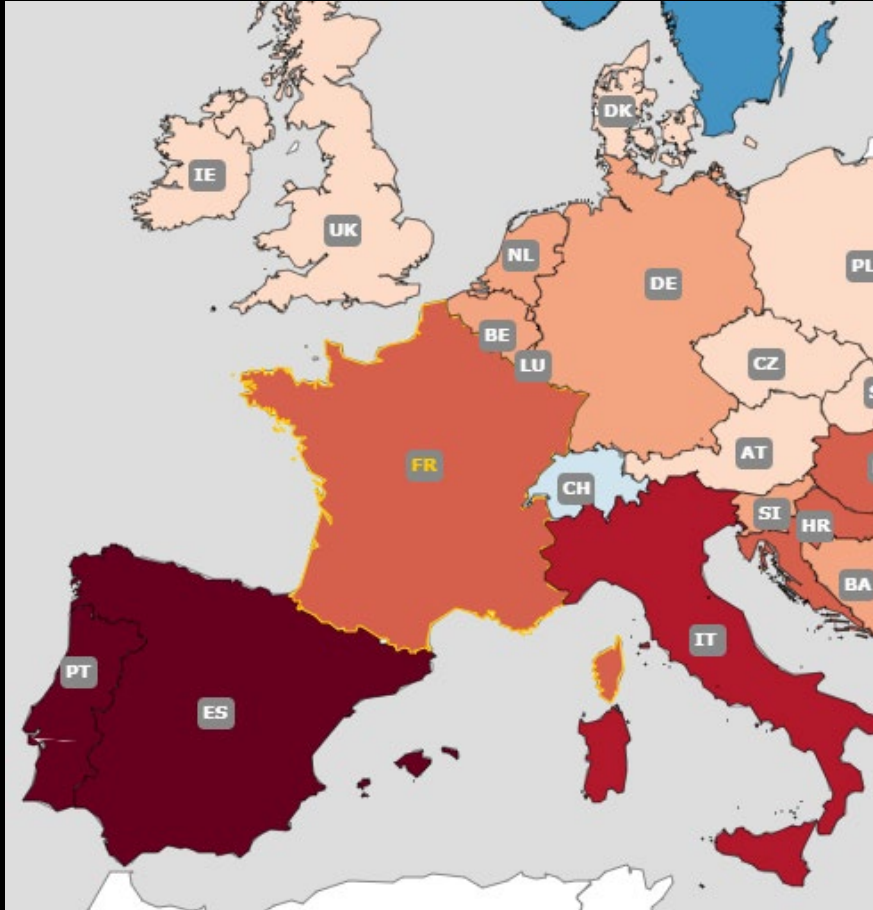
A new visual application



Based on: <https://www.oecdregionalwellbeing.org>

A new visual application: CONCEPT

<http://bernii.github.io/gauge.js/>



GA Training: Critical Thinking for Achievement

The Geographical Association and the Association for Science Education are collaborating to provide FREE* CPD develop the critical use of evidence in primary and secondary schools.

Based on a plan-do-review structure, all teachers will have the opportunity to apply their learning to tackle issues in their own schools and classrooms on this fully funded CPD with expert trainers and local network leaders.

Choose from a package of quality-assured GA and ASE teaching resources to save planning time and help apply new techniques to the classroom.



IMPROVE TEACHER CAPABILITY BY

- building confidence in curriculum planning and critical approaches
- increasing subject knowledge around data, scientific and geographical concepts and language
- supporting effective teaching of reformed geography and science qualifications and curricula
- assisting efficient planning through use of practical tools and quality-assured curriculum plans and resources.

RAISE ATTAINMENT SO PUPILS

- gain the geographical and scientific knowledge and skills needed for success in exams and further study
- tackle complex issues more independently and construct evidenced arguments through social and natural scientific investigation
- make adept use of data, use evidence critically
- have appropriate challenge to increase engagement with geography and science and generate interest in further study.

THE BENEFITS OF TEACHING THIS WAY WERE:

- It increased students' willingness to participate
- It developed confidence in students expressing their own opinions
- It supported students in accessing higher level skills such as justification and evaluation
- It helped create a culture where students independently attempted to solve problems in their fieldwork
- It increased Paper 3 GCSE fieldwork scores.



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>> TRAINING & DEVELOPMENT

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