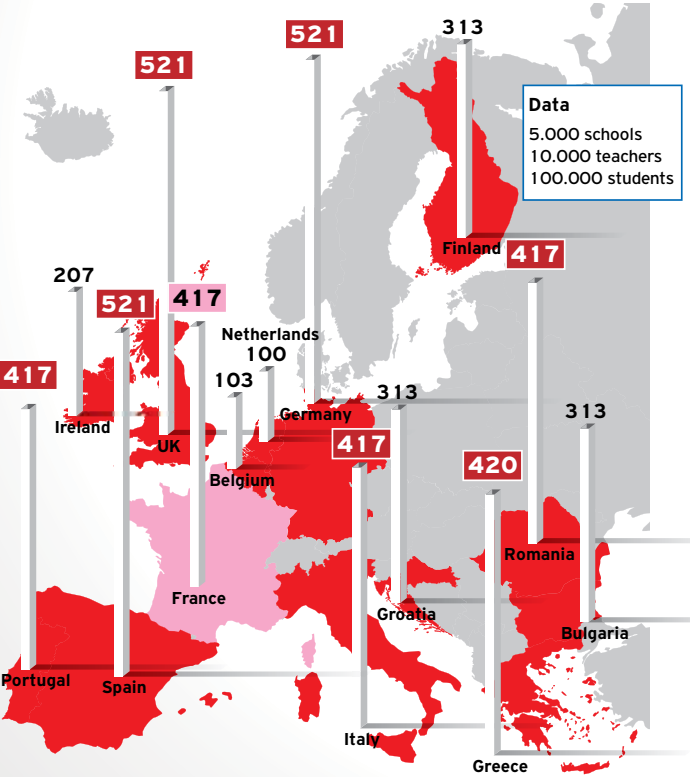
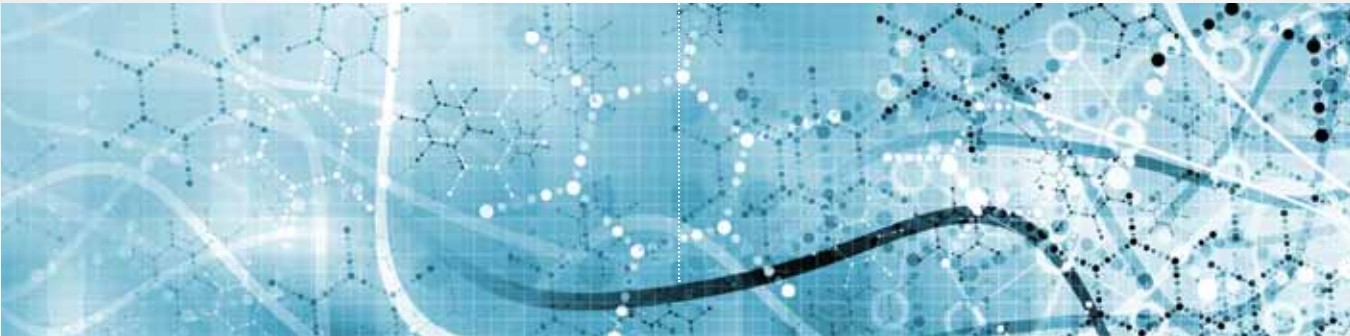


“Large Scale Experimentation Scenarios to Mainstream eLearning in Science, Mathematics and Technology in Primary and Secondary Schools”

Inspiring Science Education is all about providing the tools to make science education more challenging, more playful and above all more imaginative and inspiring for today’s students, the citizens of tomorrow’s world. Work with us to help them build a better world for everyone.



Key outcomes of the Inspiring Science Education project

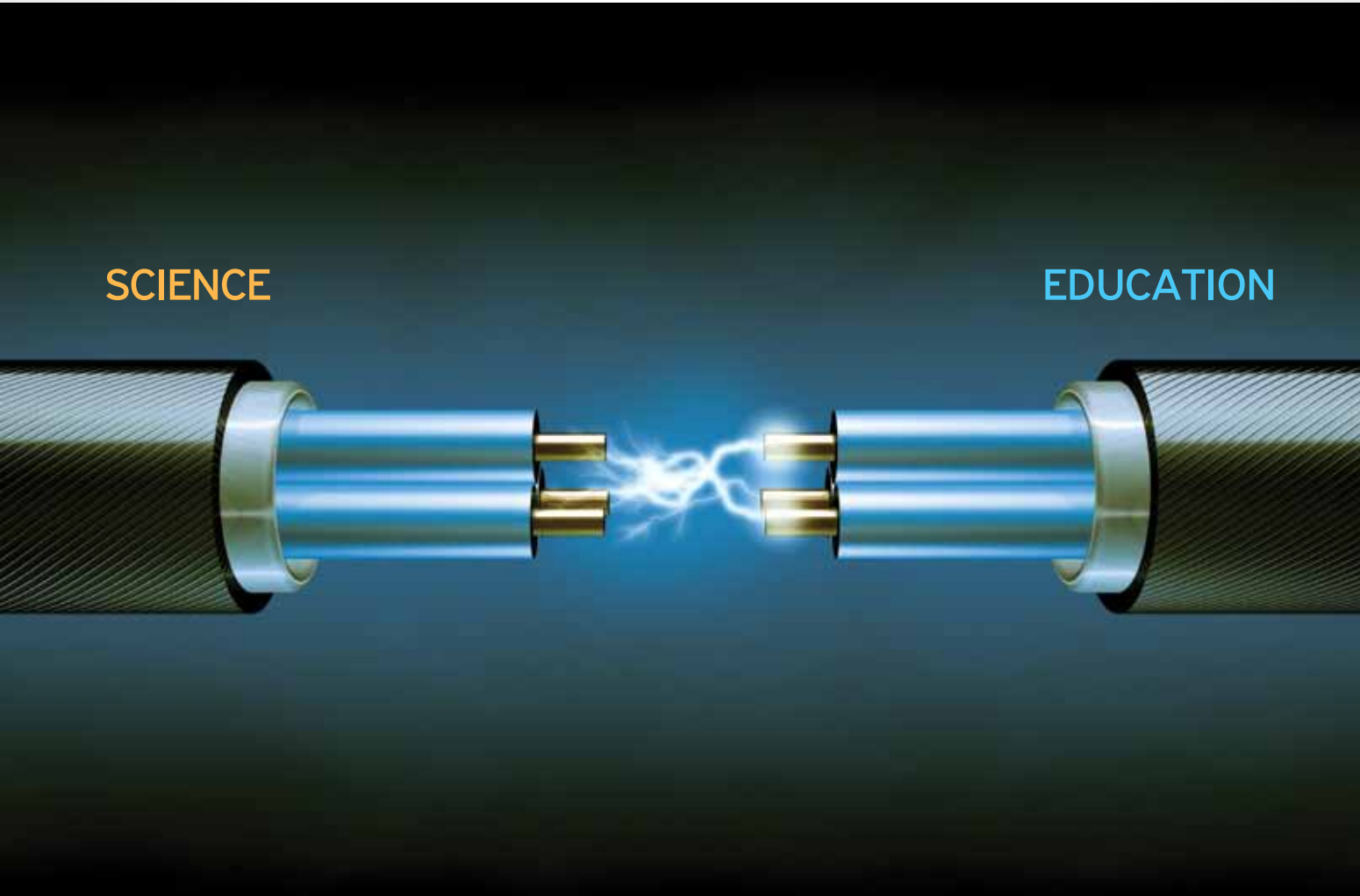
- access to online, interactive tools and digital resources from all over the world that can be used for science teaching
- templates, scenarios and methodologies to support science teachers and teacher trainers in their drive to make their teaching more exciting, fun and relevant for students
- a platform that can be used by students and teachers alike to take science teaching beyond the classroom and into the realms of extra-curricular learning
- a variety of eTools and digital resources that provide opportunities for students to collaborate with each other (in or out of the classroom) or with others outside of the class
- ways in which students themselves can be involved in scientific research activities,
- a strong support network for teachers available 24/7

www.inspiringscience.eu



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INSPIRING
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“Large Scale Experimentation Scenarios to Mainstream eLearning in Science, Mathematics and Technology in Primary and Secondary Schools”

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education

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**Visit
CERN
virtually**

Chasing particles with CERN's detectors

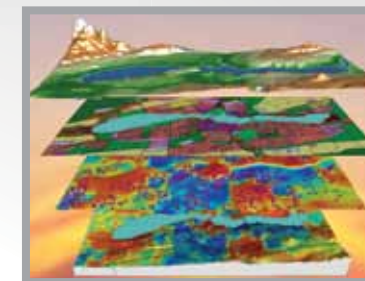
- connect with the ATLAS and CMS experiments' control rooms & chat with researchers on shift
- search for the Higgs particle with HYPATIA data analysis tool
- join e-masterclasses for analyzing real data from CERN's experiments



**Develop
geospatial
thinking
skills**

**Building a spatially-thinking
science classroom**

- enhance students' geospatial thinking skills using information technologies
- offer an open, collaborative platform of geo-content for teachers
- use interactive geo-exhibits for testing navigation and surveying skills



**Observing the Universe
from your Classroom**

- learn how teachers can perform observations with Faulkes robotic telescope
- simulate galaxy crashes online
- access real databases of large astronomical institutions



**Connect
to robotic
telescopes**

**Employing green resources
in your classroom**

- incorporate environmental education in the school educational system
- learn how to form a strong environmental conscience in school communities
- promote the use of real-world learning activities linked to green careers

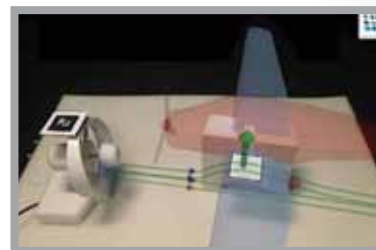


**Address
environmental
conscience**

**Apply
advanced
etools in
class**

**Visualizing the invisible
with Augmented Reality**

- interact dynamically with miniature AR exhibits and teach/learn by doing
- enrich the way you experience science by displaying otherwise hidden phenomena
- use an educational AR kit that covers areas of classical and quantum physics, wing dynamics, kinetic theory of gases and wave propagation



**Access
educational
repositories**

**Reaching a wealth of educational
materials online**

- obtain high-quality resources adopted in formal and informal education environments
- freely modify and share rich educational materials
- plan classroom activities based on offered educational pathways



**Acting as a real scientist
in a virtual environment**

- design and operate a virtual 3D sustainable energy wind farm
- experiment with Earth's motion by using a game-based Foucault pendulum
- looking for neutrinos in real data collected by research centers



**Perform
experiments
online**

**Enhancing teaching skills
and competences**

- participate in courses that expand teachers' professional profile
- apply inquiry-based science teaching in the science classroom
- foster inclusive learning via open educational resources



**Attend
training
courses**

**Participate
in science
contests**

**Connecting schools to nanolabs
and entrepreneurship**

- help students link scientific and technological innovations to entrepreneurship
- introduce topics of modern physics and technology in the classroom
- connect school science with nano-research and nano-industry



**Join
online
communities**

**Training best practices
and sharing experiences**

- be informed of existing best practices and how they can be adopted
- share experiences on teaching methodologies and/or elearning tools
- create networks for planning international events disseminating science

