

Projectes europeus per a treballar la ciència a l'escola. Quines opcions hi ha i com participar-hi.

Dr. Àgueda Gras-Velázquez
Science Programme Manager

06/03/2013

European Schoolnet (EUN)



Xarxa de 30
Ministeries d'Educació
Europeus



Promoció de l'ús de les
TIC i les tecnologies
mdigitals a les aules

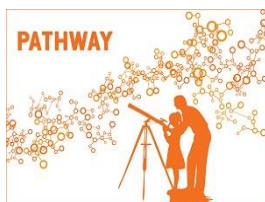
Promoció de la
dimensió Europea a les
escoles

Millora de la qualitat de
l'educació a Europa

Tres àrees principals d'interés:

- serveis per les escoles,
- recerca i investigació,
- recursos educatius

European Schoolnet (EUN) – Equip de ciències



2011-2013

22

EUR
EC Ind. EC / Ind.
12 9 1
Dissemination
Teacher training / School activities
Piloting / Evaluation
Status
running finished
12 10

Dissemination
Teacher training / School activities
Piloting / Evaluation

STEM in general					
DESIRE	EC	x			running
Pathway	EC		x	x	running
Scientix 2	EC	x	x		running
Spice	EC		x	x	finished
ECB - inGenious	EC / Ind.	x	x	x	running
STEM white paper 1	Ind.	x			finished
Intel Fairs	Ind.			x	running
Thematic					
Remote access labs / einfrastructures					
Un iSchoolLab5	EC		x	x	finished
Go-Lab	EC		x	x	running
Global excursion	EC		x	x	running
Nanotechnologies					
NanoYou	EC	x	x	x	finished
Nanochannels	EC	x	x	x	finished
nanOpinion	EC	x	x	x	running
Health Sciences					
Xplore Health	EC		x	x	finished
Xplore Health 2.0	Ind.		x	x	finished
Amgen science teacher training initiative	Ind.		x		running
Energy					
U4Energy	EC	x	x		finished
Futurenergia	Ind.	x	x		running
Technology					
Impact of data loggers on science teaching	Ind.			x	finished
Chemistry / Physics					
The Global Water Experiment	Ind.		x		finished
Chemistry is all around you	Ind.	x	x		running
Xperimania	Ind.		x		running



GO-LAB

ONLINE LEARNING
BY EXPERIMENTING

GLOBAL excursion
Extended Curriculum for Science Infrastructure Online

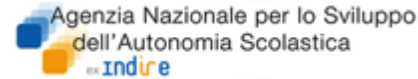


inGenious

- Most significant project ever funded by European Commission FP7 Science in Society programme targeting education
- € 8.3 M – 50% from EC funding
- Unique consortium due to:
 - Career focus
 - Industry engagement



Consortium leaders



Tiger Leap Foundation



ingenious-science.eu



Associate partners

acer

AMGEN

intel

SABANCI

welcome to
EPCA
your platform to meet
THE EUROPEAN PETROCHEMICAL ASSOCIATION

f
fourier
www.fourier-sys.com

Microsoft

SMART™
Extraordinary made simple™

umicore
materials for a better life

PlasticsEurope
Association of Plastics Manufacturers



MAERSK

STEMNET
Science, Technology, Engineering and Mathematics Network

C.gENial
Fondation pour la culture
scientifique et technique

ECWT
European Centre for Women and Technology

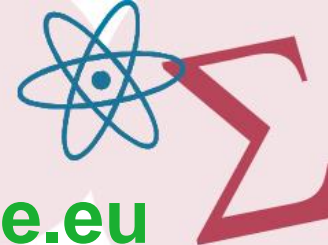
$E=mc^2$
Museos Científicos Coruñeses

THE AGE OF THE
BRAIN
An initiative of the European Brain Council

BLACKROCK CASTLE
OBSERVATORY
THE SPACE FOR SCIENCE
A Cork City Council / Cork Institute of Technology Partnership

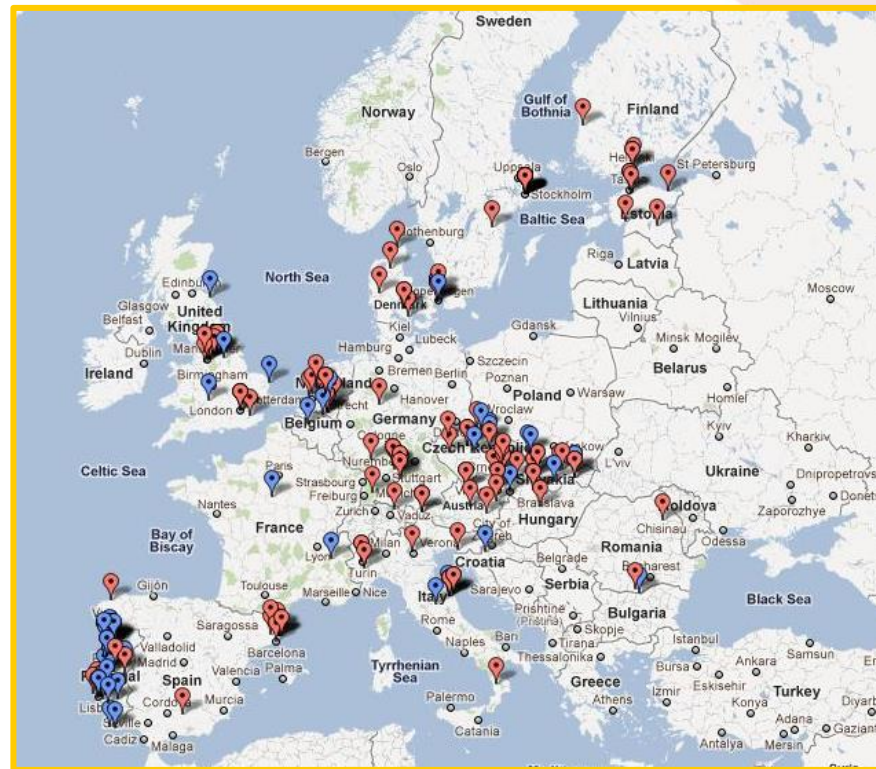
CENTAR „ZLATNA VRATA“
BEOGRAD

DOW



- Collecting **practices** / activities for schools from industry
- **Pilot schools** – test + evaluate practices → info for new practices
- **Webinars** / **chats**: experts answering questions from students
- **Workshops**, academies, summer schools for teachers
- Online **Communities of practice** / discussions
- Dissemination / information on **careers in industry**
- School – industry collaboration **needs analysis**
- Network of **1000 schools by 2013**
- Setting up of **STEM National Platforms**

inGenious is partially supported by the European Commission's FP7 programme – project ECB – European Coordination Body (Grant agreement N° 266622). The content of this document is the sole responsibility of the consortium members and it does not represent the opinion of the European Commission and the Commission is not responsible for any use that might be made of information contained herein.



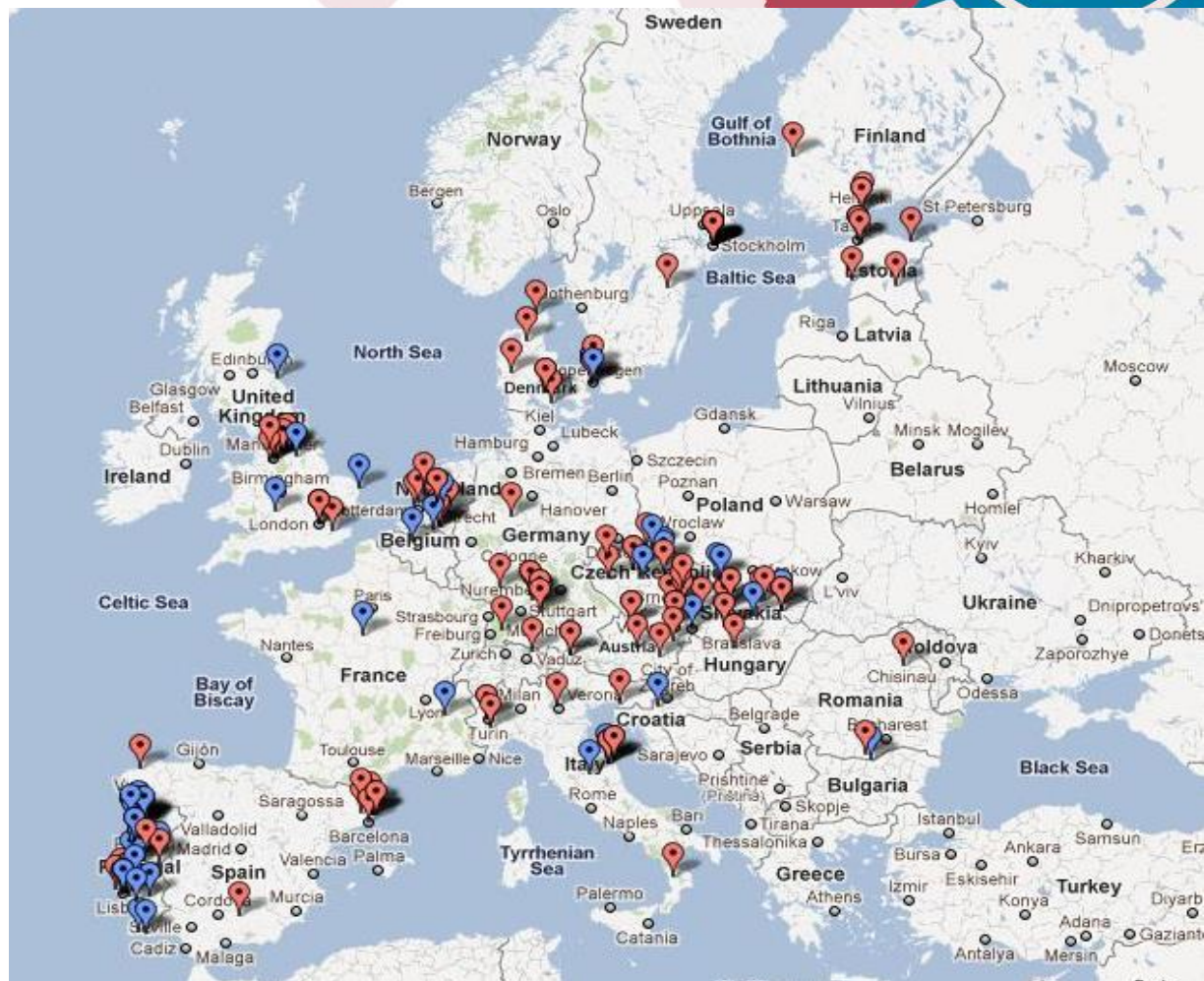
Les escoles inGenious – ECB

Escoles inGenious pilot

- Troba pràctiques per la teua classe provenents de la indústria!
- Prova les pràctiques i dis-nos que et semblen
- Participa en tallers (DK, NL, SK, AT)
- Mestres de les escoles pilots seran convidades a l'escola d'estiu anual!
- Participa en xats i comunitats de pràctica

Escoles inGenious

- Troba pràctiques per la teua classe provenents de la indústria!
- Participa en xats i comunitats de pràctica



Industry activities: what teachers say...

Pilot 1: 170 teachers from 150 schools in 21 European countries

“(My pupils) learned some new mathematical and physical rules that aren’t in their curriculum yet but that make them more aware of how STEM subjects are related to everyday life.”

95% thought the activities had proactively enhanced their teaching skills and practices

80% of teachers say pupils are now more interested in STEM careers

“I gained experience in using ICT tools to do mathematics. This is an aspect of the curriculum that is generally overlooked”





GO-LAB

ONLINE LEARNING
BY EXPERIMENTING

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<http://www.go-lab-project.eu/>

GO-LAB Summer School 2013
Volos, Greece | 30/07 - 04/08 2013

Go-Lab Summer School 2013



Welcome to the Go-Lab Project!

The Go-Lab Project (Global Online Science Labs for Inquiry Learning at School) opens up remote science laboratories and their online models (online labs) for the large-scale use in education. Its technical framework - the Go-Lab Portal - offers students the opportunity to perform personalized scientific experiments with online labs, whereas teachers may enrich their classroom activities with demonstrations and disseminate best practices in a web-based pedagogic community. At the same time, owners of the labs may promote their scientific activities providing open interfacing



News and Workshops

Go-Lab Summer School 2013

GO-LAB Summer School 2013
Volos, Greece | 30/07 - 04/08 2013

The course's main objective is to introduce to teachers the use of online virtual experimentations and remote laboratories as

GLOBAL ^{excursion}

Extended Curriculum for Science Infrastructure Online



eTwinning – Science collaborative projects between teachers from across Europe

eTwinning Central Support Service



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La comunitat Scientix

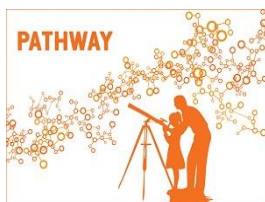


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Scientix is financed under the European Union's Seventh
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European Schoolnet – Projectes de ciències



Projectes Europeus de ciències



<http://scientix.eu>



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EUROPEAN COMMISSION
Research & Innovation



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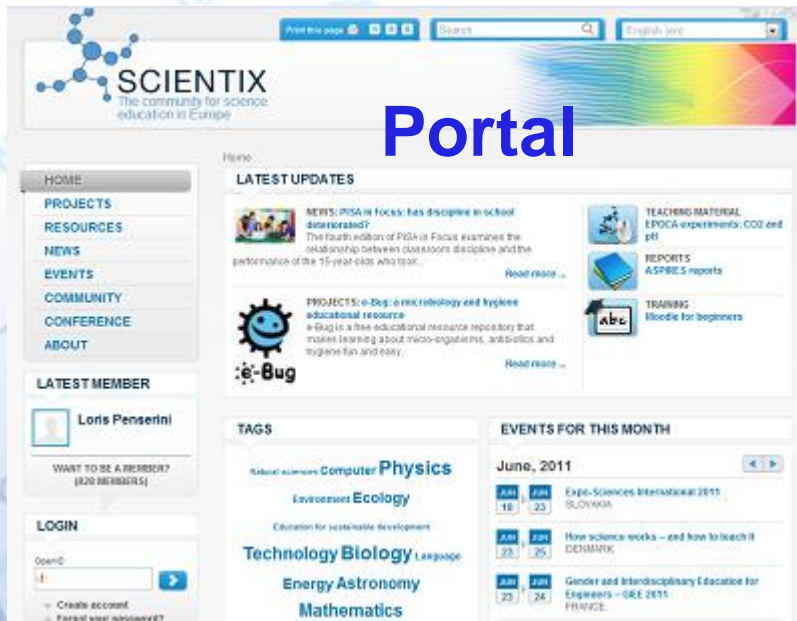
Scientix 1: 2010 - 2012



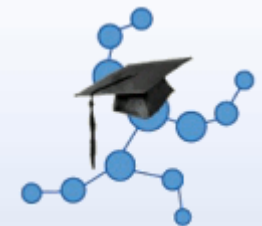
Conferència 2011



Portal



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LATEST UPDATES



NEWS: Scientix 2: taking the next step forward

Scientix is taking an important step to building the European community for science and maths education. The second stage of the project...

[Read more ...](#)



PROJECTS: GEOschools - Teaching Geosciences in secondary schools

GEOschools (2011-2013) aimed to provide advice, teaching aids, instruments and other support for teaching geoscience in secondary schools.

[Read more ...](#)



TEACHING MATERIAL

[Make a Refractory Telescope](#)



REPORTS

[Using authentic questions with students in a museum setting](#)



TRAINING

[How to make the best use of Blogs](#)

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[physics](#)

SERVICE DE TRADUCTION SUR DEMANDE

EVENTS FOR THIS MONTH

April, 2013



APR

APR

Training seminars on the use of ICT in the



CONNECTING Schools & Science Centers



TRAINING ACTIVITIES



Welcome to PATHWAY

I think the classroom can help. It is up to schools, and to all initiatives that can educate, including reliable Internet sites, to ensure that young people gradually acquire the correct understanding of scientific procedure. A most difficult task, because even knowledge transmitted by schools is often deposited in the memory like a sequence of miraculous episodes: Madame Curie who come home one evening and discovers radioactivity thanks to a mark on a sheet of paper, Dr. Fleming who glances absently at some mold and discovers penicillin, Galileo who sees a lamp swaying and suddenly discovers everything, even that the world rotates. How can we expect schools to provide correct scientific information when to this day many manuals and books – including respectable ones - say that before Columbus people believed that the Earth was flat, when this is a historic fabrication? The ancient Greeks knew it was round; and the sages of Salamanca who opposed Columbus's voyage had made calculations more accurate than his about the dimensions of the planet. It is the duty of a man of learning not only to do scrupulous research but also to present his knowledge effectively. Scientists sometimes still feel it's not dignified to take an interest in popularization, although masters in the field include Einstein and Heisenberg and the late Stephen Jay Gould. But if we are to teach a



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BASIC INFORMATION

RESEARCH INFORMATION

TEACHER INFORMATION



PATHWAY: THE PATHWAY TO INQUIRY BASED SCIENCE TEACHING



PATHWAY evaluates existing educational methods to promote the effective, widespread use of inquiry- and problem-based science teaching in schools in Europe and beyond.

The aim of the project is to set a pathway toward a standards-based approach for teaching science subjects with inquiry-based techniques and to demonstrate ways to reduce the constraints presented by teachers and school organisation towards these techniques.

This is done by

- a) outlining instructional models that help teachers to organize their classes effectively,
- b) setting up a series of methods to motivate teachers to adopt inquiry-based techniques and activities in their classrooms, and
- c) providing access to a unique collection of open science educational resources and teaching practices fitting the science curricula that have proven efficient in promoting inquiry-based education and that are expanding the limitations of classroom instruction.

This approach enables teachers, teacher trainers, curriculum developers and policy-makers to examine their own practices in the light of the best performing approaches that set the standards on what can be achieved. It provides them with a unique tool to bring about improvements in their everyday practice.



INGENIOUS: IT'S ALL ABOUT ENERGY

Descriptor: physics, climate, materials, chemistry, safety, management, environmental education, gas, oil, electrical sciences, electricity, fossil, energy

Age: 14-18 **Resource type:** guide glossary tool assessment lesson plan

Description: A series of lessons about the future of petroleum...[Know More](#)

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Project: Ingenious

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DEFORESTACTION: TAKINGITGLOBAL (PDF)

Descriptor: industry, educational institution

Age: all **Resource type:** presentation reference other

Description: The DeforestACTION Toolkit is an interdisciplinary educational...[Know More](#)

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INGENIOUS SUPERBENZ WORKSHOP

Descriptor: finance, mobility, oil, safety, energy

Age: 15-18 **Resource type:** guide reference case study assessment application lesson plan

Description: Guidelines for a workshop – simulation game on development...[Know More](#)

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Project: Ingenious

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HOW ARE DRUGS DEVELOPED? - TAKE PART IN THE RESEARCH OF A DRUG

Descriptor: biology, biotechnology, medicine

Age: > 10 **Resource type:** Not found guide lesson plan tool

Description: Science centres, museum and schools have a chance to represent...[Know More](#)

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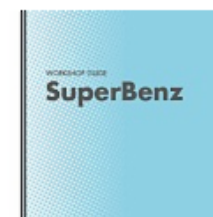
Project: Xplore health

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SEARCH RESULTS FOR: nanopinion

PROJECTS



NANOPINION – Monitoring public opinion on Nanotechnology in Europe

Nanopinion monitors public opinions on nanotechnology and engages the general public in debate on potential risks and benefits of nanotechnologies

[Read more...](#)

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NEWS



Nanochannels continues as Nanopinion

Following up on the activities and results of Nanochannels, the new FP7 project Nanopinion will map out attitudes to nanotechnology in society and engage the public in the debate on its responsible

[Read more...](#)



Become part of the Nanopinion teacher team!

The FP7 project Nanopinion is looking for 16 science and technology teachers to help with outreach to European schools and explore how education in nanotechnologies can be linked to school curricula.

[Read more...](#)

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NEWSLETTERS



Scientix Newsletter September 2012

After the summer break, Scientix Newsletter is back. We have had a busy summer updating our repositories; now we have almost 600 teaching materials in our resource database and brand-new online

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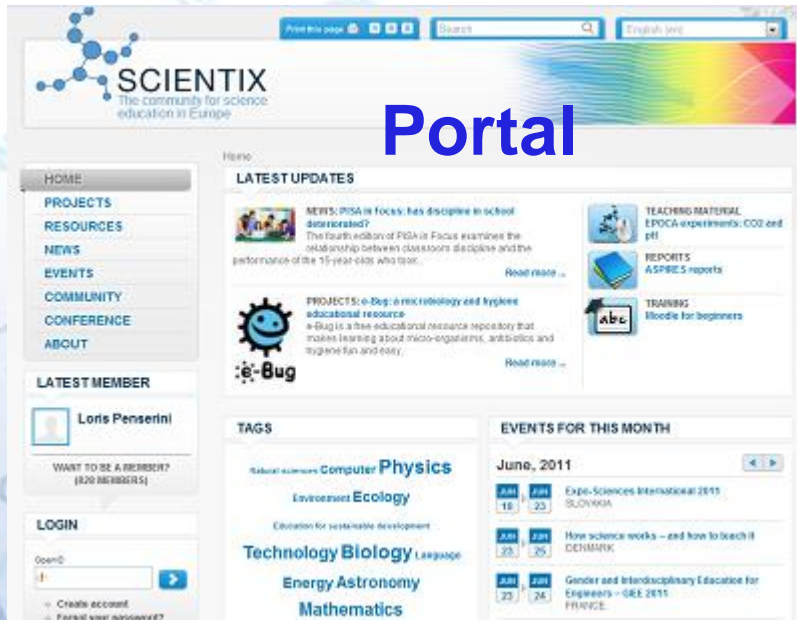
Scientix 2: 2013 - 2015



Conferència 2014



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Scientix 2: 2013 - 2015

Projectes Europeus de ciències



Col·laboració entre projectes



Scientix National Contact Points

Scientix observatory



Scientix National Contact Points



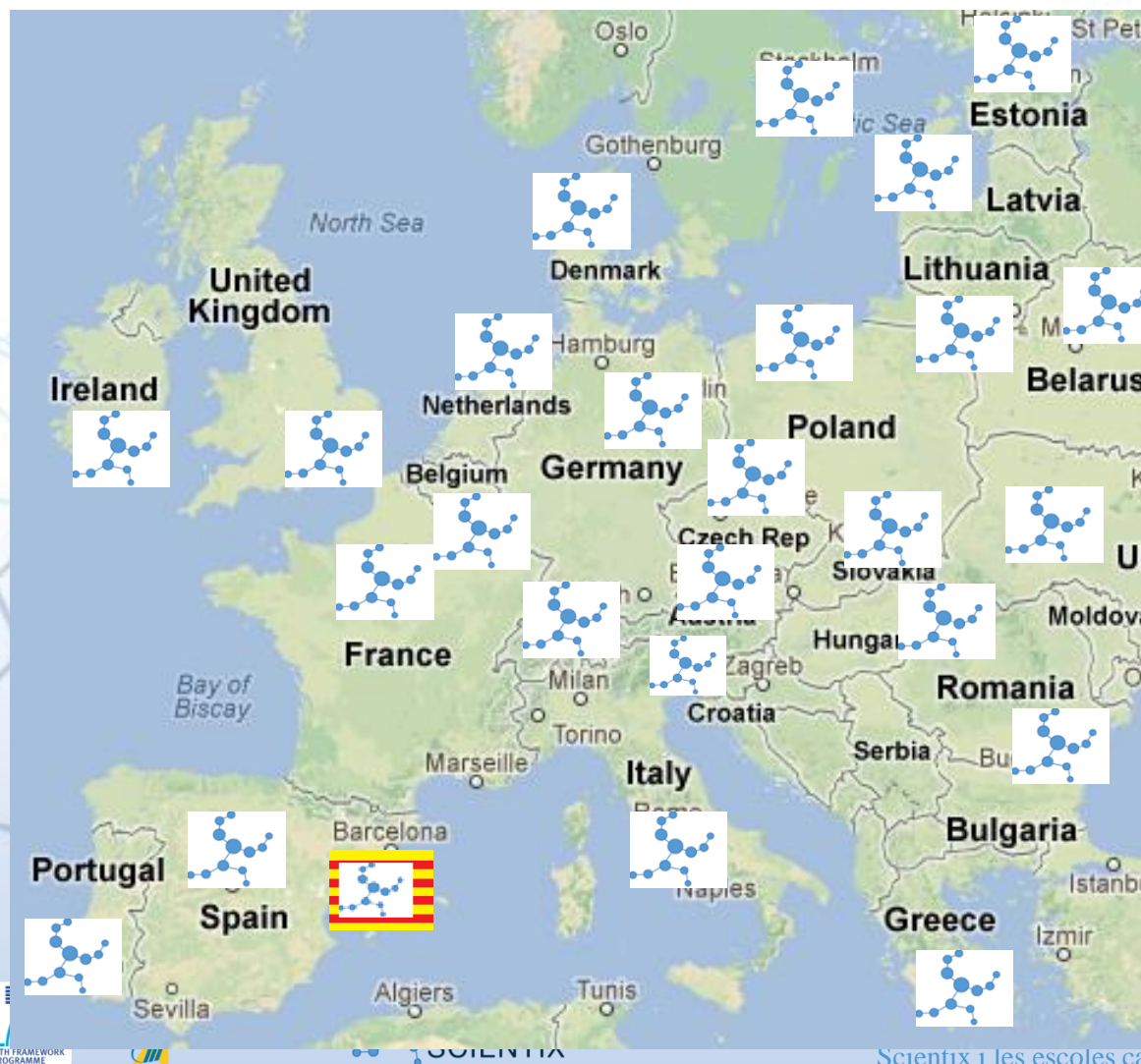
Ízquez
alunya

Scientix National Contact Points



Alfons
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SEARCH RESULTS FOR: DESIRE

PROJECTS



DESIRE: Disseminating Educational Science Innovation & Research in Europe

DESIRE aims to improve the dissemination and exploitation of research results and teaching practices from Lifelong Learning Programme projects and national Ministries of Education.

[Read more...](#)



COMPASS: Common Problem Solving Strategies as Links between Mathematics and Science

The goal of COMPASS is to provide teachers with interdisciplinary teaching materials which link mathematics and science. With the materials students can analyse and discuss problems relevant to

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NEWS



Second round of the Desire online discussions coming up in September 2012

The Desire project is organising the second round of its online discussion events. Register on the Desire portal and take part in the debate on how to best disseminate new methods and tools in STEM

[Read more...](#)



Desire project: share your experience!

The Desire project invites science teachers, science project planners, policy-makers, science events organisers and other science educators to participate in online discussions on their experience in

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NEWSLETTERS



Scientix Newsletter October 2012

Interested in taking part in Scientix workshops? Take a look at the [video we](#)

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Més informació?

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Gràcies