

**“SCIENTIX”**

***Το Ευρωπαϊκό Δίκτυο  
Επαγγελματικής Ανάπτυξης  
Εκπαιδευτικών για την  
Εκπαίδευση STEM.***

(European Report, July 3, 2002, Eurostat)

- **15 ετών:** 32%: Επιστημονικά αναλφάβητοι

Τις δεκαετίες 1990 – 2000 διαπιστώθηκε πως το **90% των ενηλίκων ήταν επιστημονικά αναλφάβητοι** μιας και δεν γνώριζαν ούτε την ορολογία και τις διαδικασίες των επιστημών, αλλά ούτε και τις επιπτώσεις των εφαρμογών τους στην ανάπτυξη της ποιότητας της ζωής τους

Σύμφωνα με τον Οργανισμό Οικονομικής Συνεργασίας και Ανάπτυξης (Ο.Ο.Σ.Α.), ως **επιστημονικός γραμματισμός** (scientific literacy) ορίζεται η ικανότητα του ατόμου

- να χρησιμοποιεί την επιστημονική γνώση,
- να αναγνωρίζει ερωτήματα,
- να βγάζει συμπεράσματα που βασίζονται σε επιστημονικά δεδομένα,
- να κατανοεί το φυσικό κόσμο που τον περιβάλλει,
- να δρα αντίστοιχα.

ΔΕΞΙΟΤΗΤΕΣ ΚΑΙ ΣΤΡΑΤΗΓΙΚΕΣ  
ΟΙ ΟΠΟΙΕΣ ΥΠΟΣΤΗΡΙΖΟΥΝ ΔΙΑΔΙΚΑΣΙΕΣ  
ΣΚΕΨΗΣ ΚΑΙ ΔΡΑΣΗΣ

Λύση προβλήματος

Αναλυτικό-συνθετική σκέψη

Επιχειρηματολογία και τεκμηρίωση

Συλλογή / οργάνωση / ανάλυση / ερμηνεία / παρουσίαση  
δεδομένων / επιλογή / εφαρμογή

Γνώση διαδικασιών και στρατηγικών

Μετασχηματισμοί από μια γλώσσα / σύμβαση σε άλλη

## ΣΥΓΧΡΟΝΗ ΠΡΑΓΜΑΤΙΚΟΤΗΤΑ

82 % των Ευρωπαίων πιστεύει πως:

Το ενδιαφέρον των νέων για την επιστήμη κρίνεται απαραίτητο για την μελλοντική ευημερία των λαών. ((Eurobarometer 2005, σ.100)

Όλο και λιγότεροι νέοι στρέφονται πλέον σε σπουδές σχετικές με επιστημονικά πεδία. (Rocard 2007, σ.11)

Οι μαθητές αρχίζουν να υστερούν σε δεξιότητες που σχετίζονται με τα μαθηματικά και τις επιστήμες από την ηλικία των δέκα ετών (Primas 2011, σ 5)

Πλήθος μελετών αναδεικνύουν μια σημαντική έλλειψη μαθηματικής και επιστημονικής επάρκειας σε ένα μεγάλο ποσοστό του ενηλίκου και του μαθητικού πληθυσμού σε όλη την Ευρώπη (Rocard 2007)

## ΣΥΓΧΡΟΝΕΣ ΑΠΑΙΤΗΣΕΙΣ

Υπολογίζεται ότι μέχρι το 2020 στην Ευρωπαϊκή Ένωση (ΕΕ) θα χρειαστούν ένα εκατομμύριο περισσότεροι ερευνητές. Σήμερα, η ζήτηση για θέσεις που έχουν σχέση με τις Επιστήμες, την Τεχνολογία, την Μηχανική και τα Μαθηματικά STEM (Science, Technology, Engineering, Mathematics), δεν είναι εύκολο να καλυφθεί από τους αποφοίτους σχολών των αντιστοίχων Πανεπιστημίων και σχολών. (Madurell, 2012).

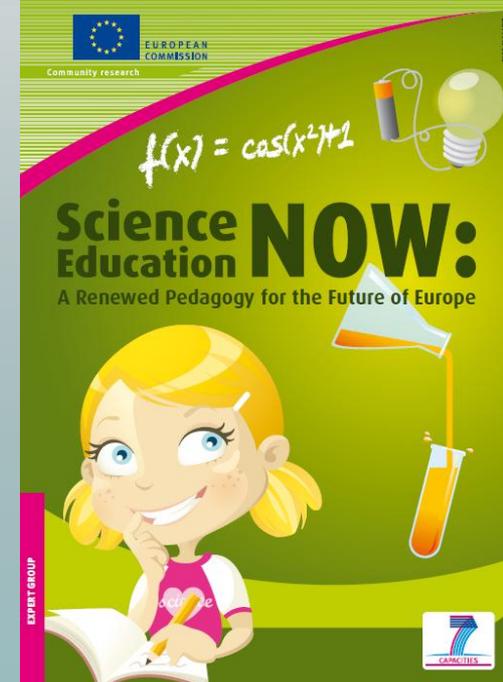
Αυτή την περίοδο, (Νοέμβριος 2014) μόνο στη Γερμανία, υπάρχει έλλειψη περίπου 50.000 ακαδημαϊκών από τους τομείς των μαθηματικών, της πληροφορικής, των θετικών σπουδών και της τεχνολογίας (Plünnecke, 2014).

Είναι επίσης γεγονός ότι παρά την αυξανόμενη ζήτηση για επαγγέλματα που σχετίζονται άμεσα με τους τομείς του STEM, υπάρχει δυστυχώς μειωμένο ενδιαφέρον των νέων για αντίστοιχες σπουδές. (Rocard 2007)

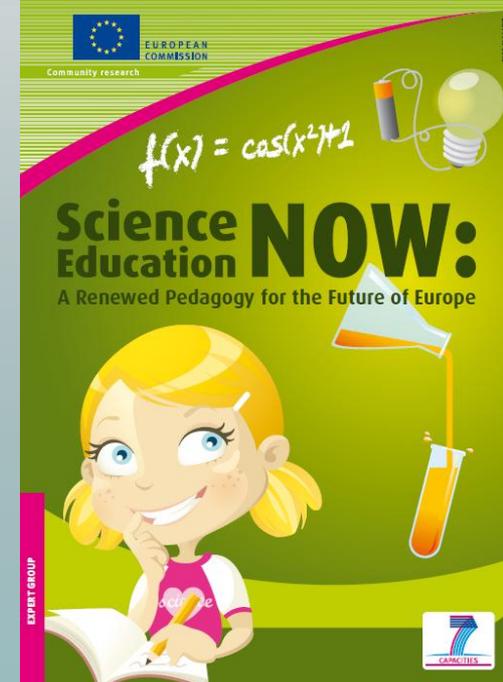
ΕΚΘΕΣΗ ROCARD 2007  
EUROPEAN COMMISSION  
Science, Economy and Society

Διαπιστώνοντας ότι διακυβεύεται το μέλλον της ίδιας της Ευρώπης, καλεί τους φορείς λήψης αποφάσεων να δράσουν προς τη κατεύθυνση βελτίωσης της εκπαίδευσης επιστημών, **απαιτώντας** την εφαρμογή αυτής της αλλαγής, τόσο σε τοπικό, περιφερειακό, εθνικό, όσο και σε Ευρωπαϊκό επίπεδο

With over 80% of Europeans (Eurobarometer 2005) considering that “**young people’s interest in science is essential to our future prosperity**” it is surprising that fewer young people are taking up key science studies. This lack of interest shown by young people for science learning is truly an issue of great importance, as science education is vital for:



ΕΚΘΕΣΗ ROCARD 2007  
EUROPEAN COMMISSION  
Science, Economy and Society



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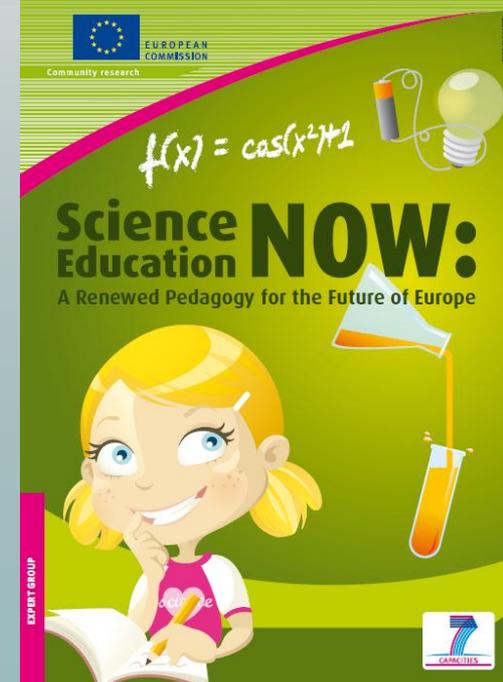
However, the key point is equipping **every citizen** with the skills needed to live and work in the **knowledge society** by giving them the opportunity **to develop critical thinking** and scientific reasoning that will enable them to make **well informed choices**.

ΕΚΘΕΣΗ ROCARD 2007  
EUROPEAN COMMISSION  
Science, Economy and Society

ΠΑΙΔΑΓΩΓΙΚΗ ΜΕΘΟΔΟΛΟΓΙΑ

ΑΝΑΚΑΛΥΠΤΙΚΗ  
INQUIRY

ΔΙΑΘΕΜΑΤΙΚΟΤΗΤΑ  
STEM  
(SCIENCE  
TECHNOLOGY  
ENGINEER  
MATHEMATICS)



Renewed school's science-teaching pedagogy based on IBSE (Inquiry Based Science Education) provides increased opportunities for cooperation between actors in the formal and informal arenas.

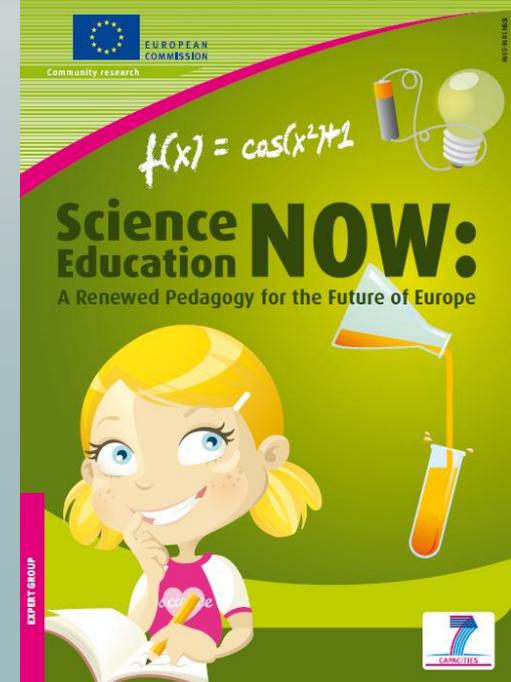
IBSE techniques are effective on students groups for which traditional deductive methods are ineffective.

ΕΚΘΕΣΗ ROCARD 2007  
EUROPEAN COMMISSION  
Science, Economy and Society

ΚΡΙΣΙΜΟΣ ΠΑΡΑΓΟΝΤΑΣ

ΕΚΠΑΙΔΕΥΤΙΚΟΣ

ΔΗΜΙΟΥΡΓΙΑ  
ΔΙΚΤΥΟΥ



**Teachers are key players** in the renewal of science education. Among other methods, **being part of a network** allows them to improve the **quality of their teaching** and supports their **motivation**.

Being part of a professional network, however, can provide them with **opportunities** to **enrich their practices** and professional context through **cooperation** within and between schools, collaborative reflection, development and evaluation of instruction, exchange of ideas, materials and experiences, quality development, cooperation between teachers and researchers.

# Ευρωπαϊκό Σχολικό Δίκτυο (European Schoolnet EUN) 1997



Δίκτυο Υπουργείων  
Παιδείας  
32 Ευρωπαϊκών χωρών.



Πρώθηση των ΤΠΕ και  
των ψηφιακών  
τεχνολογιών στην τάξη

Πρώθηση της  
Ευρωπαϊκής διάστασης  
στα σχολεία.

Βελτίωση της ποιότητας  
της εκπαίδευσης  
στην Ευρώπη.

Τρεις περιοχές ενδιαφέροντος:

- Υπηρεσίες στα σχολεία.
- Έρευνα και καινοτομία.
- Διάχυση εκπαιδευτικών πηγών.



**Προώθηση της καινοτομίας  
στη διδασκαλία και τη μάθηση  
σε όλους τους τομείς και εμπλεκόμενους  
με την εκπαίδευση**

*(Υπουργεία, σχολεία, εκπαιδευτικούς, μαθητές, ερευνητές)*

**Στρατηγικά σχεδιασμένες εκστρατείες  
για την ευαισθητοποίηση εκπαιδευτικών  
και μαθητών σε εκπαιδευτικά θέματα  
των επιστημών, της τεχνολογίας,  
της μηχανολογίας και των μαθηματικών**

# ΔΙΚΤΥΑΚΕΣ ΚΟΙΝΟΤΗΤΕΣ ΜΑΘΗΣΗΣ



ΕΜΠΛΟΥΤΙΣΜΟΣ  
ΤΗΣ ΕΠΙΣΤΗΜΟΝΙΚΗΣ ΚΑΙ ΑΚΑΔΗΜΑΪΚΗΣ ΓΝΩΣΗΣ ΤΩΝ  
ΜΕΛΩΝ ΠΕΡΑ ΑΠΟ ΓΕΩΓΡΑΦΙΚΑ  
ΚΑΙ ΘΕΜΑΤΙΚΑ ΟΡΙΑ

# ΟΜΠΡΕΛΑ ΣΥΝΤΟΝΙΣΤΗΣ

## SCIENTIX



ΟΜΠΡΕΛΑ ΣΥΝΤΟΝΙΣΤΗΣ



<http://scientix.eu>

# SCIENTIX

The community for science &  
education in Europe

Τεχνολογία &

Μηχανική &

Μαθηματικά

**Πρωτοβάθμια και Δευτεροβάθμια Εκπαίδευση (4 – 21 ετών)**



EUROPEAN COMMISSION  
Research & Innovation



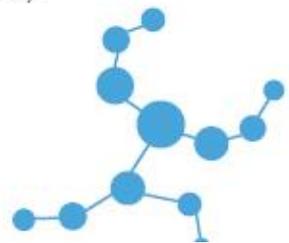
Scientix is financed under the European Union's Seventh Framework Programme for Research and Development



**SCIENTIX**  
The community for science  
education in Europe

## ΤΙ ΕΙΝΑΙ ΤΟ SCIENTIX;

Το Scientix, η κοινότητα για την εκπαίδευση στις φυσικές επιστήμες στην Ευρώπη, προάγει και υποστηρίζει την Ευρωπαϊκή συνεργασία σε επίπεδο διδασκαλίας, έρευνας και εκπαιδευτικής πολιτικής που αφορούν στα πεδία φυσικών επιστημών, τεχνολογίας, μηχανικής και μαθηματικών (STEM).  
[www.scientix.eu](http://www.scientix.eu)



## ΤΙ ΘΑ ΚΕΡΔΙΣΩ ΩΣ ΕΚΠΑΙΔΕΥΤΙΚΟΣ;

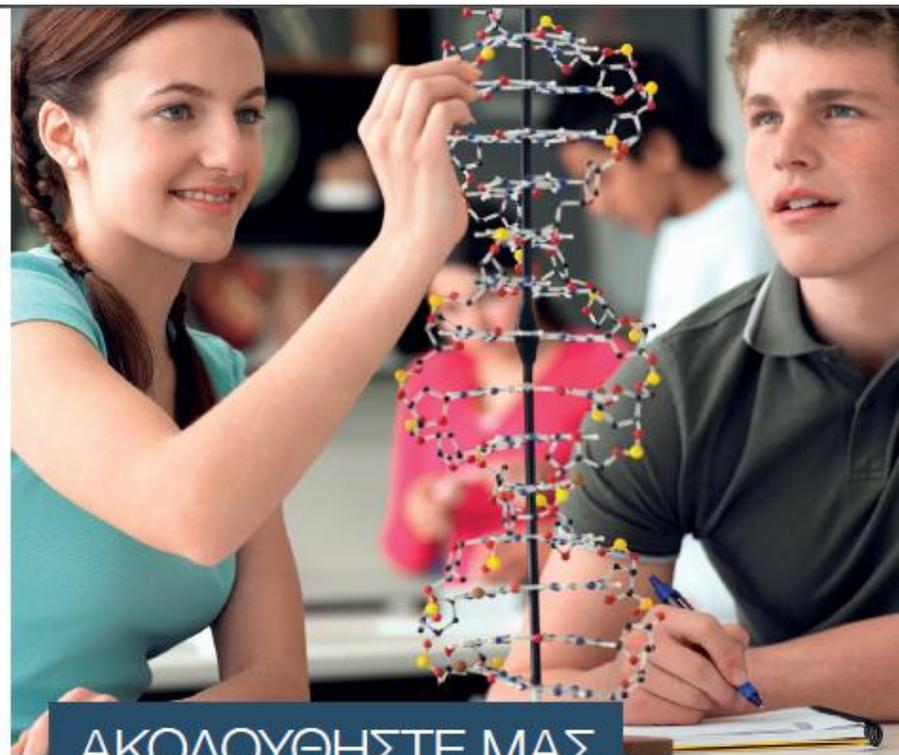
- **Εμπνευστείτε ιδέες** για τις τάξεις σας → Αναζητήστε εύκολα πηγές STEM στην πλατφόρμα του Scientix
- **Αποκτήστε δωρεάν μετάφραση του εκπαιδευτικού υλικού** στην πλατφόρμα του Scientix → Χρησιμοποιήστε την υπηρεσία μετάφρασης του υλικού εφόσον ζητηθεί
- **Ανακαλύψτε και πάρτε μέρος σε Ευρωπαϊκά εκπαιδευτικά προγράμματα για τα πεδία STEM** → Περιηγηθείτε στα διάφορα Ευρωπαϊκά έργα με τη χρήση του εργαλείου αναζήτησης
- Πάρτε μέρος σε **επιμορφωτικά προγράμματα μέσω διαδικτύου** → Πάρτε μέρος στα επιμορφωτικά μαθήματα που διεξάγονται μέσω διαδικτύου και στα διαδικτυακά σεμινάρια για τους εκπαιδευτικούς
- Πάρτε μέρος σε **εθνικά και ευρωπαϊκά εργαστήρια** και μαθήματα επαγγελματικής ανάπτυξης → Πάρτε μέρος στα δια ζώσης επιμορφωτικά σεμινάρια για εκπαιδευτικούς και συνεργαστείτε με ομοϊδεάτες εκπαιδευτικούς από όλη την Ευρώπη

...



## ΤΙ ΘΑ ΚΕΡΔΙΣΩ ΩΣ ΕΚΠΑΙΔΕΥΤΙΚΟΣ;

- **Ελάτε σε επαφή και συζητήστε** με άλλους εκπαιδευτικούς των πεδίων STEM σχετικά με θέματα τεχνολογίας και φυσικών επιστημών  
→ Συνεισφέρετε στις Κοινότητες Πρακτικής του Scientix
- Πάρτε μέρος σε **δραστηριότητες σε εθνικό και τοπικό επίπεδο** και λάβετε πρόσθετη υποστήριξη → Βρείτε το Εθνικό Σημείο Επαφής του Scientix και επικοινωνήστε με τους Πρέσβεις και Βοηθούς Πρέσβεις του Scientix στη χώρα ή την περιοχή σας
- Πληροφορηθείτε για όλα **τα τελευταία νέα** σχετικά με εκπαιδευτικά προγράμματα στο πεδίο των φυσικών επιστημών και την κοινότητα του Scientix → Εγγραφείτε για να λαμβάνετε το Ενημερωτικό Δελτίο του Scientix και το Scientix Digest ([www.scientix.eu/web/guest/newsletter](http://www.scientix.eu/web/guest/newsletter))



## ΑΚΟΛΟΥΘΗΣΤΕ ΜΑΣ



[www.scientix.eu](http://www.scientix.eu)



Ενημερωτικά δελτία: [www.scientix.eu/web/guest/newsletter](http://www.scientix.eu/web/guest/newsletter)



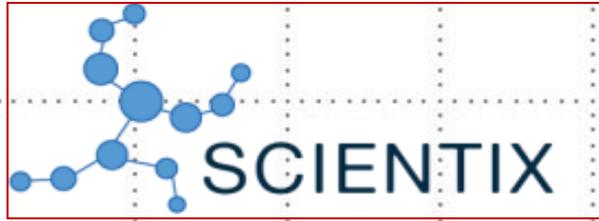
@scientix\_eu



groups/ScienceTeachersEurope

Το Scientix (2012-2015) υποστηρίζεται από το 7ο Πρόγραμμα Πλαίσιο της Ευρωπαϊκής Ένωσης για την Έρευνα και την Ανάπτυξη (FP7) και συντονίζεται από το European Schoolnet (Ευρωπαϊκό Σχολικό Δίκτυο). Το παρόν δημοσίευμα αντιπροσωπεύει αποκλειστικά τις απόψεις των συντακτών του και όχι την άποψη της Ευρωπαϊκής Επιτροπής. Επίσης, η Ευρωπαϊκή Επιτροπή δεν φέρει καμία ευθύνη για οποιαδήποτε τυχόν χρήση των πληροφοριών που περιέχονται στο δημοσίευμα.





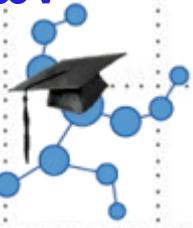
## Projects - Αποθετήριο



## Συνέδρια 2011 - 2014



## Εργαστήρια ΕΚΠΑΙΔΕΥΤΙΚΩΝ



## Συνεργασία μεταξύ projects



## Παρατηρητήριο Scientix



## Ενδιάμεσοι Εθνικοί φορείς & ενημερώσεις δασκάλων





# SCIENTIX

The community for science education in Europe

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## SCIENTIX LIVE

Here you will find information about face to face activities organized by Scientix (e.g. workshops in European Schoolnet's Future Classroom Lab or at other venues) and Scientix contributions to conferences, workshops and other events.

You can find the presentations, programme, etc. of past events, but you can also see at what events and when Scientix will be present in the future.

### SCIENCE PROJECTS WORKSHOP IN THE FUTURE CLASSROOM LAB

The Future Classroom Lab (FCL), an independent project of EUN and based at EUN, provides a platform where policy makers can rethink their ICT strategies and where teachers, head teachers and ICT advisers can experiment with innovative pedagogical approaches within flexible learning environments. It provides both a large reconfigurable space equipped with state-of-the-art technology plus a room designed as an interactive classroom to illustrate how a traditional classroom setting can use technology to enhance interactivity and student

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Observatory

Scientix Moodle

Science it's a girl thing!

Scientix blog

## CALENDAR OF SCIENTIX LIVE EVENTS

October, 2015



Scientix National Conference,  
The Netherlands

01.10 > 02.10 | Netherlands

## Training opportunities for teachers

Online courses/webinars and face-to-face workshops for innovative teachers

[Read more »](#)

Innovation in your classroom - Learning with colleagues from across Europe

Re-engineering the Uptake of ICT in Schools – Major publication on the results of the iTEC project

Go-lab project open call for schools

Are you ready for the Hackathon Pédagogique 2015?

[All news »](#)

**9th Projects Workshop at the Future Classroom Lab aimed at Heads of schools (Brussels, 6-8 Nov 2015)**

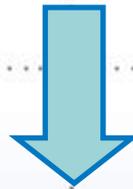
<http://www.scientix.eu/web/guest/spw9-at-fcl>

# Scientix στην Ελλάδα

- Υποστήριξη σε εθνικό επίπεδο  
Ενημέρωση , Επικοινωνία
- Υλοποίηση εργαστηρίων επαγγελματικής  
ανάπτυξης(workshop)
- Οργάνωση συνεδρίων για ανταλλαγή,  
απόψεων και εμπειριών
- Αίτημα μετάφρασης μεγάλου αριθμό πηγών  
στην ελληνική γλώσσα.

# Οργάνωση καινοτόμων δράσεων και δραστηριοτήτων στα ελληνικά σχολεία

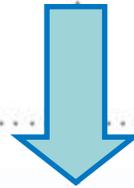
- **Ενεργοποίηση σε εθνικό επίπεδο για υλοποίηση και διάδοση εκπαιδευτικών έργων σε Ευρωπαϊκό επίπεδο**



- **Ενθάρρυνση για την ανάπτυξη συνεργασιών μεταξύ των ελληνικών σχολείων για την από κοινού υλοποίηση ερευνητικών έργων**

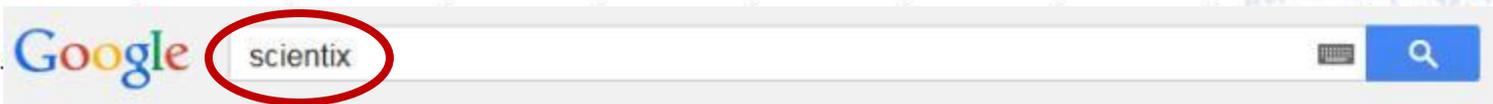
# Οργάνωση καινοτόμων δράσεων και δραστηριοτήτων στα ελληνικά σχολεία

- **Εμπλουτισμός – ανανέωση- αναπροσανατολισμός των σχολικών εκπαιδευτικών μεθόδων.**



**Κινητοποίηση – ενδυνάμωση ενδιαφερόντων - προώθηση κλίσεων – καλλιέργεια πνεύματος έρευνας και αναζήτησης των μαθητών στα μαθήματα θετικών επιστημών**

# Εύρεση διεύθυνσης μέσω google.



Ιστός Εικόνες Περισσότερα ▾ Εργαλεία αναζήτησης

Περίπου 39.800 αποτελέσματα (0,20 δευτερόλεπτα)

Τα cookie μας βοηθούν να σας παρέχουμε τις υπηρεσίες μας. Εφόσον χρησιμοποιείτε τις υπηρεσίες μας, συμφωνείτε με τη χρήση των cookie από εμάς.

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## Scientix: Home

[www.scientix.eu/](http://www.scientix.eu/) ▾ Μετάφραση αυτής της σελίδας

Scientix informs about European science and maths education projects, collects and presents science teaching resources, brings the latest news about STEM ...

### Resources

Repository of STEM teaching and learning resources, research ...

### Conference

Information about the Scientix conference held in May 2011 in ...

### About

Information about the Scientix project, contact details and ...

### News

Latest development in science education policy and research.

### Projects

Fully searchable database of current and past STEM ...

### Events

Calendar of events in science education and related fields ...

Περισσότερα αποτελέσματα από το [scientix.eu](http://scientix.eu) »

## Scientix ([scientix.eu](http://scientix.eu)) on Twitter

[https://twitter.com/scientix\\_eu](https://twitter.com/scientix_eu) ▾ Μετάφραση αυτής της σελίδας

The latest from Scientix (@scientix\_eu). European collaboration in #STEM teaching, research and policy. Tweets about EU projects in STEM, educational ...



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**WORKING TOGETHER**

Learn about networking events for Science Education projects...



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  - [Science it's a girl thing](#)

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# Επιλογή γλώσσας πλοήγησης.



The image shows the header of the SCIENTIX website. On the left is the SCIENTIX logo, a stylized molecular structure, with the text "SCIENTIX" and "The community for science education in Europe" below it. On the right, there are social media icons for Twitter and Facebook, and a navigation menu with the following items: HOME (in yellow), NEWS, and CONFERENCE. A language dropdown menu is open on the right side, showing the following options: Deutsch, Español, Français, Nederlands, and Italiano. A red arrow points from the dropdown menu to a text box below.

English - Deutsch – Espanol – Francais –  
Nederlands – Italiano – Polski - Romana

# Δημιουργία λογαριασμού» - “Create account”



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The community for science education in Europe

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Type here your Username/OpenID

SIGN IN

Create account

Forgot your password?

In your country

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Science it's a girl thing

Subscribe to our email updates to get all the latest news!

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7h

## WORKING TOGETHER

Learn about networking events for Science Education projects...



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  - Projects
  - Resources
  - News
  - Events
  - Community
  - Conference
  - Scientix Live
  - In your country
  - Observatory
  - Newsletter + Email digest every second Tuesday
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### WORKING TOGETHER

Learn about networking events for Science Education projects...



#### FEATURED RESOURCE

SEARCH RESOURCES



#### Design Your Alien

In this teaching material students review the environmental factors that make the Earth habitable and they compare them to other worlds within our Solar System. Its aim is to use creative thinking to design an alien life form suited for specific environmental conditions on an extra-terrestrial world.

Read more... >

#### LATEST PROJECT



#### TEMI: Teaching Enquiry with Mysteries Incorporated

This project engages pupils in a unique way - by presenting each problem or task as a mystery that needs to be solved.

Read more >

#### LATEST NEWS



#### Meet the Scientist online with Global excursion

Take part in the interactive virtual visit to the metrology research department of ASML in the Netherlands.

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Science Teachers in Europe: Join the discussion!

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#### LATEST MEMBER

ALEJANDRA GODED

#### EVENTS

February, 2014

LEARNTEC - Learning with IT  
04.02 > 06.02 | Germany

Schools in the Cloud  
11.02 | United Kingdom

1 2 3 View All

# Projects



- HOME
- SCIENTIX LIVE
- COMMUNITY

- EVENTS
- RESOURCES
- CONFERENCE

- NEWS
- PROJECTS
- ABOUT

Home > Community

## SCIENTIX COMMUNITY

### NETWORKING EVENTS FOR SCIENCE EDUCATION PROJECTS

The networking events – organised quarterly – bring together project coordinators, managers and other representatives, from European and national science education projects. The goal is to allow projects to share and exchange their experiences, present their work, and to facilitate creating new collaborations and partnerships. Each of these events is centred on a specific topic or challenge faced by the projects.

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### ONLINE MEETING ROOM

Scientix aims to facilitate the work of the different public funded science education projects. In this context, Scientix offers projects the possibility to use the "Scientix online meeting room". Any project included in the Scientix project library can request to schedule an online meeting, webinar, online workshop, etc. for up to 200 participants.

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# Resources



- HOME
- SCIENTIX LIVE
- COMMUNITY

- EVENTS
- RESOURCES
- CONFERENCE

- NEWS
- PROJECTS
- ABOUT

1,020 RESULTS FOUND.

## Controller for a Robotic Hand

**Descriptor:** *electronics engineering technology*

**Copyright:**  **Age:** > 12 **Project:** RECAP

**Description:** *The purpose of this paper is to present a controller with ATmega8 designed to control the fingers of a robotic hand. The controller commands the 6 servomechanisms (2 for the thumb and one for each finger) which actuate the fingers. The controller receives...*

[DESCRIPTION](#) [GET THIS RESOURCE](#)

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- HOME
- SCIENTIX LIVE
- COMMUNITY

- EVENTS
- RESOURCES
- CONFERENCE

- NEWS
- PROJECTS
- ABOUT

Home > News

## LATEST NEWS

SEARCH NEWS 

Filter by:

Country  Topic  Target groups

Language

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### NEWS



**Ellinogermaniki Agogi celebrates its 50th anniversary**

Ellinogermaniki Agogi (EA), a Greek-German private school with strong emphasis on science and mathematics, is celebrating 50 years since its establishment.

[Read more...](#)



**2012 METASCHOOL Summer Schools for science educators**

The Summer schools, taking place on 1-6 July 2012 in Crete, Greece, offer seven different programmes for science teachers, teacher trainers and science centre guides. EU Comenius – Grundtvig training

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# Events



- HOME
- SCIENTIX LIVE
- COMMUNITY

- EVENTS
- RESOURCES
- CONFERENCE

- NEWS
- PROJECTS
- ABOUT

Home > Events

## EVENTS

« November » « 2015 »

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
						1 Mathematics on...
2	3	4	5	6 Scientix Projects... Science Projects...	7 GEOTNK Final...	
9 London...	10	11	12 Scientix National... Scientix Webinar...	13 Scientix National...	14	15 FUSENET PhD Event...
16	17	18	19	20	21	22

*If you are organising a conference, workshop, webinar or other events on any aspect of science education, please let us know.*

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# Community



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- HOME
- SCIENTIX LIVE
- COMMUNITY
- EVENTS
- RESOURCES
- CONFERENCE
- NEWS
- PROJECTS
- ABOUT

Home > Community

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- HOME
- SCIENTIX LIVE
- COMMUNITY
- EVENTS
- RESOURCES
- CONFERENCE
- NEWS
- PROJECTS
- ABOUT

Home > Conference

## 2ND SCIENTIX CONFERENCE: 24-26 OCTOBER 2014

PROGRAMME PRESENTATIONS KEYNOTES POSTERS PHOTOS

The 2nd Scientix Conference took place on 24 – 26 October 2014 in Brussels, Belgium.



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Tweets by @scientix\_eu

#scientixConf

# Scientix Live



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- HOME
- SCIENTIX LIVE
- COMMUNITY
- EVENTS
- RESOURCES
- CONFERENCE
- NEWS
- PROJECTS
- ABOUT

Home > Scientix Live

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### CALENDAR OF SCIENTIX LIVE EVENTS

November, 2015

Scientix Projects Networking Event 9  
06.11 | Belgium

Science Projects Workshop at the Future Classroom Lab 9  
06.11 | 08.11 | Belgium

Scientix National Conference, Slovakia  
09.11 | 10.11 | Slovakia

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**SCIENTIX**  
The community for science education in Europe

- HOME
- SCIENTIX LIVE
- COMMUNITY
- EVENTS
- PROJECTS
- CONFERENCE
- NEWS
- RESOURCES
- ABOUT

Home > In your country

## SCIENTIX IN YOUR COUNTRY

### SCIENTIX NATIONAL CONTACT POINTS

Scientix National Contact Points (NCPs) provide an important link between Scientix at a European level and activities taking place in your country. They engage with national communities of STEM professionals, inform about Scientix activities and organise national workshops, webinars and other activities.

NCPs also monitor and analyse national initiatives regarding science education policy and practice, to be published on the Scientix website, providing an overview of the national initiatives in science education taking place across Europe.

• Find the details for the national contact point in your country.

### SCIENTIX AMBASSADORS AND DEPUTY AMBASSADORS

The Scientix Ambassadors and Deputy Ambassadors – members of our Teacher Panel – promote and inform about Scientix to their peers - science and mathematics teachers across Europe.

They present Scientix in schools and national teachers associations, on conferences and workshops, and can advise teachers how to get involved in European collaboration in STEM. They also assist in developing and testing various tools and services of Scientix and ensure the pedagogical quality of the Scientix repository.

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#### QUICK ACCESS

List of Scientix NCPs

List of Scientix Ambassador Cycle 3 (April-November 2015)

List of Scientix Ambassador Cycle 2 (October 2014-March 2015)

List of Scientix Ambassadors Cycle 1

# ○ Observatory



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- HOME
- SCIENTIX LIVE
- COMMUNITY
- EVENTS
- RESOURCES
- CONFERENCE

Home > Observatory

## SCIENTIX OBSERVATORY

In order to help the development and dissemination of different science education projects and document good practices in various aspects of STEM education, Scientix has set up the Scientix observatory. This observatory provides short synthesising articles, focused on one or several related themes or initiatives, or the state of play of different topics related to science education.

### PUBLISHED SCIENCE OBSERVATORY PAPERS:

Veleg, P. & Perez Rubio, V. J. (2013), **Sharing Open Educational Resources in Multilanguage Repositories - the Learning Resource Exchange and Scientix**, Christian M. Staeke (Ed.), *Learning Innovation and Quality: The future of Digital Resources, Proceedings of the European and International Conference LINQ 2013, Rome, Italy, 19-17 May 2013*, p. 43-51

# ○ Newsletter & digest

The community for science education in Europe

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Home > Newsletter

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### SCIENTIX NEWSLETTER

The Scientix quarterly newsletter delivers original articles on innovation in STEM education policy, research and practice. It brings the latest news from science education projects and from the Scientix community, and follows the development of European and national policies and initiatives. Each issue focuses on selected topics in science education and highlights presents related materials and activities. The newsletter is only available in English.

[Read the past issues of the newsletters.](#)

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Scientix Digest is a fortnightly newsletter, providing an overview of the latest updates on the Scientix portal. It features projects and resources recently added to the Scientix portal, and informs about upcoming events in STEM and related fields.

The Digest is available in English, German, French, Italian, Spanish, Polish, Dutch and Romanian.

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# ○ Moodle courses



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## Scientix Moodle

Δεν έχετε εισέλθει. (Είσοδος)  
Ελληνικά (el)

### Συνδεδεμένοι Χρήστες

(τα τελευταία 5 λεπτά)  
Κανένας

### Ημερολόγιο

November 2015

Κυρ	Δευ	Τρι	Τετ	Πεμ	Παρ	Σαβ
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

### Κατηγορίες μαθημάτων

Scientix Courses 2013 - 2015	1
STEM Tools for teachers	12
ICT Tools for teachers	5
Classroom management lessons	5
Scientix Courses 2010 - 2012	
A-STEM Tools for Teachers	13
B-Office Tools for Teachers	10
C-Web2 Tools for Teachers	14
D-Moodle training	1
Other courses	
SPICE	1
FP7	1
Extra courses	1

Αναζήτηση μαθημάτων:  Μεταβείτε

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# ○ Blog



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### Code Camp for girls

November 6th, 2015 by tina

Image: Tina Kaharaa The year after Kodukup my four pupils, age 13, participated in Code Camp for girls that took place in Helsinki in October 2015. The camp was organized by Frantic, a digital agency providing high technology services. Week long day camp was all about learning the basics...

Posted in Uncategorized | No Comments >



### Doughnuts in programming - how to use the Scratch programming language to develop the logical and mathematical skills

November 4th, 2015 by scientix

Written by: Maciej Borowiecki This article relates to the project "Doughnuts in programming - how to use the Scratch programming language to develop the logical and mathematical skills." The project was implemented from October 1st to December 20th, 2014 by the Association "Parents in Education". Computer Assisted Education and

### WELCOME TO THE SCIENTIX BLOG

Through this blog, people connected to Scientix (EUN colleagues, Scientix Ambassadors and Deputy Ambassadors, Scientix friends) will publish personal stories on science education in Europe.

The opinions in the articles are the sole responsibility of the corresponding authors and they do not represent the opinion of the European Commission, European Schoolnet (EUN) nor Scientix, and neither the Commission nor EUN nor Scientix are responsible for any use that might be made of information contained herein.

For official news, please check the Scientix website: [www.scientix.eu](http://www.scientix.eu)

# Εγγραφή του ηλ. ταχυδρομείου σας για την αποστολή ενημερώσεων – περιλήψεων.



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HOME

SCIENTIX LIVE

COMMUNITY

EVENTS

PROJECTS

CONFERENCE

NEWS

RESOURCES

ABOUT



[In your country](#)

[Observatory](#)

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[Home](#) > [Events](#)

## EVENTS

« November »

« 2015 »

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
						1 Mathematics on...
2	3	4	5	6 Scientix Projects... Science Projects...	7 GEOTNK Final...	8
9 London... Scientix National...	10	11	12 Scientix National... Scientix Webinar:...	13 Scientix National...	14	15 FUSENET PhD Event...
16 8th annual... Scientix Week... MOOC starts:...	17 First D4Learning...	18 Final Conference...	19 SIS-RRJ... IMCL 2015	20	21	22 International...

*If you are organising a conference, workshop, webinar or other events on any aspect of science education, please let us know.*

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EVENT**



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SEARCH NEWS



Filter by:

Country



Topic



Target groups



Language



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#### CHOOSE YOUR COURSE FROM "INNOVATION IN YOUR CLASSROOM"

11/11/2015

Staying up to date with the latest developments in teaching practices and technology takes effort and dedication. Meanwhile, finding the time to study and take courses can be a challenge. Luckily there is a range of courses available for busy

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INTERVIEW SERIES

DID YOU KNOW?

# Scientix Live - Future Classroom Lab.



HOME

SCIENTIX LIVE

COMMUNITY

EVENTS

RESOURCES

CONFERENCE

NEWS

PROJECTS

ABOUT

[Home](#) > [Scientix Live](#)

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November, 2015 « »

[Scientix Projects Networking Event 9](#)  
06.11 | Belgium

[Science Projects Workshop at the Future Classroom Lab 9](#)  
06.11 > 08.11 | Belgium

[Scientix National Conference, Slovakia](#)  
09.11 > 10.11 | Slovakia

# Scientix Live - Webinars.



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## SCIENTIX WEBINARS

Scientix is organising a series of webinars on STEM education. **They will take place throughout 2015 and are open to anybody interested in science teaching and learning.**

The one hour-long webinar sessions are an ideal opportunity for the Scientix community members to explore exciting STEM related topics, such as 1:1 computing, language learning in the science classroom, STEM in lower grades, or online science simulations in IBSE.

[READ MORE](#)

For further details and instructions, look out for the information on upcoming webinars.

## PAST AND UPCOMING WEBINARS

November, 2015

« »

**Scientix Webinar: Programming and coding in physics classes**

12.11 |

**Scientix Webinar: Open source hardware**

24.11 |



# Scientix Projects.



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HOME

SCIENTIX LIVE

COMMUNITY

EVENTS

RESOURCES

CONFERENCE

NEWS

**PROJECTS**

ABOUT

[Home](#) > [Projects](#)

### PROJECTS



Filter by:

Country

Topic

Target groups

Funding

Projects looking for funding

Ongoing projects

- Aeronautics
- Agriculture
- Anthropology
- Applied sciences
- Archaeology
- Astronautics
- Astronomy
- Biochemistry
- Biology
- Biomedicine
- Biotechnology
- Chemistry
- Computer science
- Earth science
- Ecology
- Education
- Electronics
- Energy
- Engineering
- Environmental sciences

Target groups

- college students
- education authorities
- general public
- industry
- parents
- policy makers
- primary school students
- researchers
- secondary school students
- teachers
- trainee teachers
- under school-age kids
- university lecturers
- university students
- vocational school students
- youth clubs
- other

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**KAREL - AUTONOMO**  
30/10/2015

A project about Karel for secondary schools

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*If you know of European or national project on STEM education, please let us know.*

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*Read more on what Scientix offers to science*

# Scientix Projects.

Country	Topic	Target groups
Greece	Education	primary school students secondary school students
Funding	Starts after	Ends before

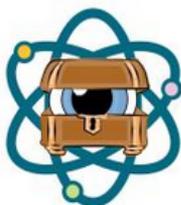
## ARK OF INQUIRY: INQUIRY AWARDS FOR YOUTH OVER EUROPE

Share this project

BASIC INFORMATION

RESEARCH INFORMATION

TEACHER INFORMATION



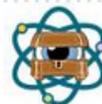
'Ark of Inquiry: Inquiry Awards for Youth over Europe' is a research and development project on teacher training, oriented towards raising awareness of Responsible Research and Innovation (RRI), particularly among young people between the ages of 7 and 18.

Ark of Inquiry is funded by the European Commission and it involves 13 project partners from 12 countries. The project aims to

raise youth awareness of Responsible Research and Innovation (RRI) by providing young European citizens (7 to 18-year-olds) with a pool of engaging inquiry-based activities to improve their inquiry skills, increase their awareness and understanding of conducting 'real' science, and prepare them to participate in different roles in the European research and innovation process.

Carefully selected inquiry-based activities will be made widely available across Europe via a special platform bringing together inquiry-based activities, learners and supporters (teachers, scientists, university students, researchers and teacher educators, and staff of museums, science centres and universities). The Ark of Inquiry platform will connect formal learning settings and curricula to centres for science and research, so that generations of scientists can meet each other. This project helps to build a society skilled in RRI and related scientific communication.

At least 23,000 pupils, 1,100 teachers, 100 science and teacher education students and 50 staff members from universities, museums and science centres are expected to participate in the project launched in March 2014.



## ARK OF INQUIRY: INQUIRY AWARDS FOR YOUTH OVER EUROPE

03/11/2014

'Ark of Inquiry: Inquiry Awards for Youth over Europe' is a research and development project on teacher training, oriented towards raising awareness of Responsible Research and Innovation (RRI), particularly among young people between the ages of 7

[Read more...](#)

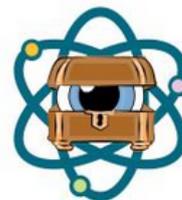
## ARK OF INQUIRY: INQUIRY AWARDS FOR YOUTH OVER EUROPE

Share this project

BASIC INFORMATION

RESEARCH INFORMATION

TEACHER INFORMATION



The Ark of Inquiry project centres around two closely related concepts: Responsible Research and Innovation (RRI) and Inquiry-Based Science Education (IBSE). Ark of Inquiry aims at raising youth awareness of Responsible Research and Innovation (RRI), as well as building a scientifically literate and responsible society through Inquiry-Based Science Education (IBSE). Responsible Research and Innovation (RRI) is defined as a transparent, interactive process by which societal actors and

innovators become mutually responsive to each other with a view to the (ethical) acceptability, sustainability and societal desirability of the innovation process and its marketable products. Such approaches can bridge the gap between the scientific community and society.

The Ark of Inquiry project will develop a pedagogical framework that promotes pupils' awareness of RRI and increases their awareness and understanding of conducting 'real' science. The project will collect existing inquiry-based activities and environments from various national and international projects that are related to RRI aspects and make them widely available through the Ark of Inquiry platform.

The results of the project will be widely disseminated in schools and universities and in society in general through scientific publications, publicly accessible websites, presentations, etc.

Scientists will contribute to the Ark of Inquiry project as members of a support network set up for teachers to help them with understanding and using the Ark of Inquiry material on RRI and enable them to work together effectively with pupils.

# Scientix Resources (Αποθετήριο πηγών.)



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HOME

SCIENTIX LIVE

COMMUNITY

EVENTS

RESOURCES

CONFERENCE

NEWS

PROJECTS

ABOUT

[Home](#) > [Resources](#)

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Find resources by keyword

GO

### ADVANCED SEARCH

Subject

Min age

Max age

Type

2
3
4
5
6
7
8
9

20
21
22
23
24
25

[In your country](#)

[Observatory](#)

[Scientix Moodle](#)

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UPLOAD RESOURCES

SCIENTIX AWARDS

# Scientix Resources – Teaching Materials (Εκπαιδευτικό υλικό).

**ADVANCED SEARCH**

Subject  Min age  Max age

Type  Languages

TEACHING MATERIALS

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TRAINING COURSES

LRE MATERIALS

1,020 RESULTS FOUND.

**Controller for a Robotic Hand**

PDF document

The aim of the paper "Robot Hand Controller" is to present a controller for the fingers of a robotic hand. The controller commands the 6 servomechanisms (2 for the thumb and one for each finger) which actuate the fingers. The controller receives...



★ ★ ★ ★ ★

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## Controller for a Robotic Hand

**Descriptor:** *electronics engineering technology*

**Copyright:**  **Age:** > 12 **Project:** *RECAP*

**Description:** *The purpose of this paper is to present a controller with ATmega8 designed to control the fingers of a robotic hand. The controller commands the 6 servomechanisms (2 for the thumb and one for each finger) which actuate the fingers. The controller receives...*

DESCRIPTION

GET THIS RESOURCE

# Scientix Resources – Εύρεση συγκεκριμένου υλικού.

solar car

GO 

## ADVANCED SEARCH

Subject

Min age

Max age

Type

Languages

## SOLAR CAR



Users' Tags:

Descriptor: *mathematics modelling renewable energy statistics*

Age range: 11 - 14

Resource type: *application, assessment, experiment, exploration, lesson plan, project, tool*

Creative commons: 

Project: *COMPASS*

Author: *COMPASS COMPASS*

★ ★ ★ ★ ★

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BACK

## DESCRIPTION

This task aims to provide students with opportunities to discover the significance of adapting and using solar energy in transportation and explore related mathematical and scientific content. Students complete a number of activities in mathematics, science and technology to build and operate a model solar car.

## VIEW THIS IN

Greek

Spanish

Slovak

Dutch

English

German

1 RESULTS FOUND.

## Solar car

Descriptor: *mathematics modelling renewable energy statistics*

Copyright:  Age: 11 - 14 Project: *COMPASS*

Description: *This task aims to provide students with opportunities to discover the significance of adapting and using solar energy in transportation and explore related mathematical and scientific content. Students complete a number of activities in mathematics, science...*



★ ★ ★ ★ ★

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# Scientix Resources – Ελληνικό παράδειγμα.

## ADVANCED SEARCH

Subject

physics

Min age

Max age

Type

Languages

TEACHING MATERIALS

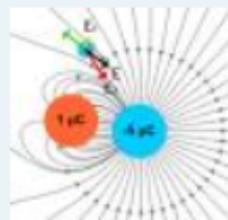
REPORTS LIBRARY

TRAINING COURSES

LRE MATERIALS

341 RESULTS FOUND.

## ELECTROSTATIC FIELD



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! Report a problem

Users' Tags:

Descriptor: *physics*

Age range: *12 - 18*

Resource type: *exploration, simulation*

Creative commons: CC BY-NC-SA

Project: *Digital School*

Author: *Ilias Sitsanlis, Evangelos Koltsakis, Nikiforos Papachristos*

BACK

## DESCRIPTION

Dynamic (2D) representation of an electrostatic field (created by two charged spherical objects), through its dynamic lines, its intensity and its effect on a charged spherical object. Possibility to explore (through visualization and quantification) of the electrostatic field.

## VIEW THIS IN

Greek

## REQUEST TRANSLATION

en

bg

bs

ca

cs

cy

da

de

es

et

eu

fi

fr

ga

gl

he

hr

hu

is

it

it

lv

# Scientix Community (Κοινότητα).



## SCIENTIX

The community for science education in Europe

HOME

SCIENTIX LIVE

COMMUNITY

EVENTS

RESOURCES

CONFERENCE

NEWS

PROJECTS

ABOUT

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## SCIENTIX COMMUNITY

### NETWORKING EVENTS FOR SCIENCE EDUCATION PROJECTS

The networking events – organised quarterly – bring together project coordinators, managers and other representatives, from European and national science education projects. The goal is to allow projects to share and exchange their experiences, present their work, and to facilitate creating new collaborations and partnerships. Each of these events is centred on a specific topic or challenge faced by the projects.

[READ MORE](#)

### ONLINE MEETING ROOM

Scientix aims to facilitate the work of the different public funded science education projects. In this context, Scientix offers projects the possibility to use the "Scientix online meeting room". Any project included in the Scientix project library can request to schedule an online meeting, webinar, online workshop, etc. for up to 200 participants.

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[Science it's a girl thing!](#)

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# Scientix Community (Κοινότητα – Δημιουργία Προφίλ).

[Edit profile](#)



**NIKOLAOS MAKRIS**

## MEMBER INFORMATION

<b>Country:</b>	Greece
<b>Expertise:</b>	ICT coordination, education management, primary education, project management, research and development, secondary education
<b>Mother tongue:</b>	Greek
<b>Other languages:</b>	English

## ORGANISATION

NAME	ROLE	SUBJECTS
1ο Ολοήμερο Δημοτικό Σχολείο Πορταριάς Primary School of Portaria	primary school teacher	astronomy, environmental education, informatics/ICT, mathematics, natural sciences, physics, primary education, technology
SCIENCE CULTURE EDUCATIONAL CENTER - ARISTOTELIO	administration manager	art, astronomy, biology, chemistry, cross-curricular education, culture, environmental education, geography, health education, informatics/ICT, mathematics, natural sciences, philosophy, physics, pre-school education, primary education, technology

## PUBLIC PROFILES DIRECTORY

Create your Scientix public profile and search for project partners or team up with like-minded colleagues in other European countries!

Scientix public profiles directory is a new networking and partner-search tool helping you identify potential EU project partners or STEM education professionals with similar background and interests. You can search for people by country, expertise, subjects or position, or by keywords.

To fully benefit from the service you have to register on the Scientix portal and complete your Profile page.

[REGISTER](#)

[PUBLIC PROFILES DIRECTORY](#)

## SCIENTIX MATCH-MAKING TOOL

The Scientix match-making tool allows researchers and project managers to contact members of the Scientix community (teachers and other education professionals) and invite them to collaborate on their STEM education projects and initiatives.

The tool is primarily intended to facilitate contacts between science teachers and science education projects: you can search through the public profile directory by any relevant profession (e.g. secondary teachers, headmasters, etc.), country or expertise, and directly contact the selected members.

[CONTACT OUR MEMBERS](#)

