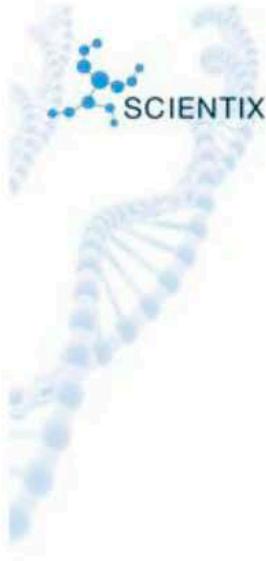


XV ENCONTRO DAS TIC NA EDUCAÇÃO

ENSINO, APRENDIZAGEM E TRABALHO COOPERATIVO NAS ESCOLAS



JSo@res



"Scientix e o repensar de estratégias no 1º Ciclo"



José Soares

**Scientix Deputy Ambassador
E.B. 1 António Vitorino**



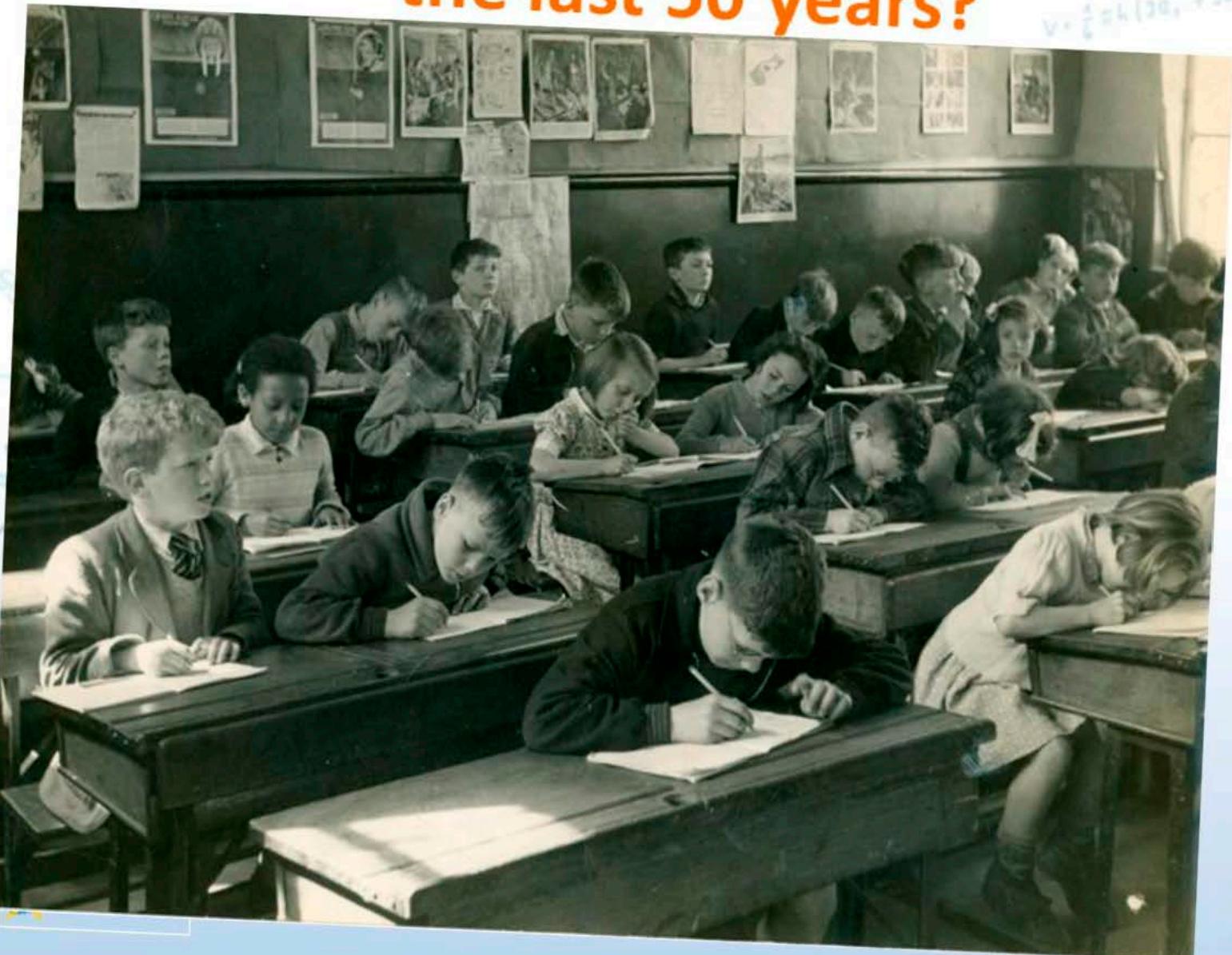
How has learning changed in the last 50 years?



José Soares, Scientix Deputy Ambassador

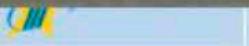


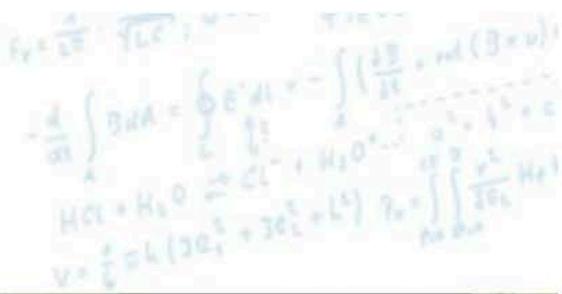
How has learning changed in the last 50 years?



José Soares, Scientix Deputy Ambassador

How has learning changed in the last 50 years?





Picture credit: BM Education
José Soares, Scientix Deputy Ambassador



Future
Classroom Lab
by European Schoolnet

$$\begin{aligned} F_1 &= \frac{1}{2} \cdot \text{F}_0 \cdot \sin(\theta) \\ \text{DNA} &= \left(\frac{1}{2} \cdot \text{d} \right)^2 \cdot \frac{\pi}{4} \cdot \text{H}_0 + \dots \end{aligned}$$



INTERACT



DEVELOP

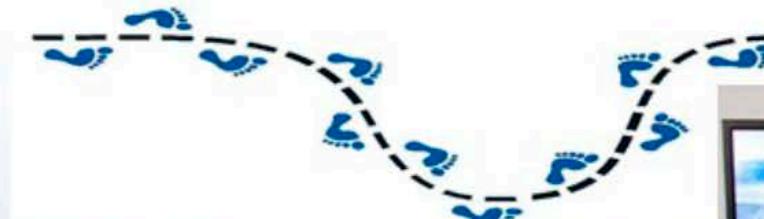
PRESENT



INVESTIGATE



Six zones



EXCHANGE

CREATE



y Ambassador



Projetos Europeus de Ciências





<http://scientix.eu>

SCIENTIX

The community for science
education in Europe

&
maths &
engineering & **technology**
Primary and Secondary (4 – 21 years old)



José Soares, Scientix Deputy Ambassador



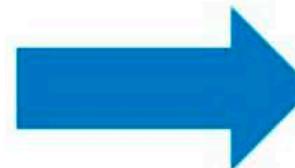
Scientix é um projeto europeu em rede de todos aqueles que trabalham no campo do ensino das ciências,



European Schoolnet (EUN)



Network/Rede
30 Ministérios da
Educação na Europa



Promover a utilização
as TIC na sala de aula

Promoção do conceito
de cidadania europeia
nas escolas

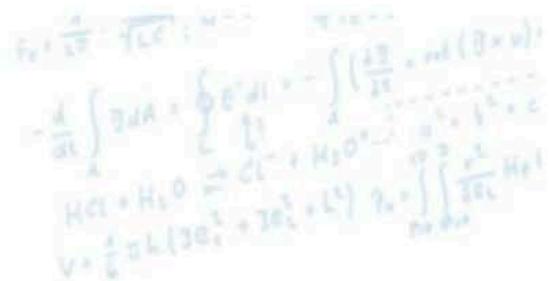
Melhorar a Educação
na Europa

Três áreas de interesse:

- Serviços para escolas,
- Investigação e inovação,
- Partilha de recursos educativos



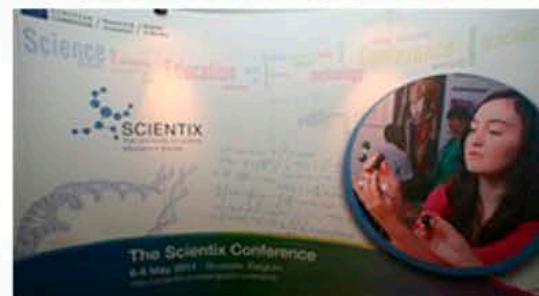
Scientix: 2010 - 2015



Portal (disseminate projects)



Conference 2014



Scientix Live



Collaboration between projects



Scientix observatory



National Contact Points & teachers' panel





SCIENTIX

scientix.eu

- 8 languages (en, fr, de, pl, it, es, ro, nl)
- Secções:
 - Projects
 - Resources
 - News
 - Events
 - Community
 - Conference
 - Scientix Live
 - In your country
 - Observatory
 - Newsletter + Email digest every second Tuesday
 - Social Media



The screenshot shows the Scientix website homepage. At the top, there's a navigation bar with links for Home, Projects, News, Events, Conference, Resources, Community, and About. There's also a "Sign In" button and a search bar. The main content area features a "WORKING TOGETHER" section with a call to learn about networking events for Science Education projects. Below it is a "FEATURED RESOURCE" section for "Design Your Alien", which includes a thumbnail image of a chalkboard and a brief description. To the right of the featured resource is a "SEARCH RESOURCES" button. Further down are "LATEST PROJECT" and "LATEST NEWS" sections, each with a thumbnail image and a brief description. On the right side of the page, there are sections for "In your country", "Observatory", "Scientix Moodle", and "Science It's a girl thing!". There are also social media links for Twitter, Facebook, and YouTube, and a "SIGN UP" button. At the bottom, there are sections for "JOIN US", "LATEST MEMBER", and "EVENTS".

Projetos de educação STEM financiados por fundos públicos



SCIENTIX

The community for science education in Europe

HOME NEWS CONFERENCE PROJECTS EVENTS SCIENTIX LIVE RESOURCES COMMUNITY ABOUT

Home > Projects > Project Details

BASIC INFORMATION RESEARCH INFORMATION TEACHER INFORMATION

 CREATIVE LITTLE SCIENTISTS: ENABLING CREATIVITY THROUGH SCIENCE AND MATHEMATICS IN PRESCHOOL AND FIRST YEARS OF PRIMARY EDUCATION

The Creative Little Scientists project sets out to shed light on the intersection of science and mathematics education for young children with creativity.

The objectives of the project are twofold:

- To provide a clear picture of existing and possible practices, their implications and related opportunities and challenges for connecting science and mathematics learning with creativity in preschool and the early years of primary education (up to the age of eight);
- To transform this knowledge into a concrete contribution towards the training of preschool staff and primary school teachers to support them in adopting creativity-based approaches to early-years science and mathematics learning. The result will be a set of curriculum design principles as concrete guidelines for European initial teacher training and continuous professional development of teachers.

The project organises workshops and training courses for teachers and will produce a compendium of teacher training materials, selected on the basis of good practices identified in the case studies.

In your country

Observatory

Scientix Moodle

Science it's a girl thing!

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

SUBMIT PROJECT

Read more on what Scientix offers to science education projects

- Online meeting room
- Networking events

nbassador



SCIENTIX

The community for science education in Europe



English ▾

Sign In

Search



HOME

NEWS

PROJECTS

RESOURCES

EVENTS

COMMUNITY

CONFERENCE

SCIENTIX LIVE

ABOUT

Home > News

STEM education news

LATEST NEWS

SEARCH NEWS



Filter by:

Country



Topic



Target groups



See all

Language



APPLY FILTER



FREE ONLINE COURSE FOR STEM TEACHERS STARTED

19/03/2014

A new online course started on Monday 17 March to provide teachers, school counsellors and career advisors with resources and ideas to increase pupils' interest in STEM.

In your country

Observatory

Scientix Moodle

Science it's a girl thing!

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

SIGN UP

SUBMIT NEWS

Let us know about any news you
have for teachers or researchers in
science education.



★★★★★
0 + Add to
favourites

Report

“Tradução a pedido”

(de todos os materiais
disponíveis no site com
creative commons license)

★★★★★
0 + Add to
favourites

Report

INGENIOUS: IT'S ALL ABOUT ENERGY

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

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

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

Creative Commons license:

Project: Ingenious

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

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

Creative Commons license:

Project: Ingenious

View this in:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

Request translation:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

DEFORESTACTION: TAKINGITGLOBAL (PDF)

Descriptor: industry, educational institution

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

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

Creative Commons license:

Project: Ingenious

View this in:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

Request translation:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

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 rep... [Know More](#)

Creative Commons license:

Project: Xplore health

View this in:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

Request translation:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

<http://scientix.eu>

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

SIGN UP

SIGN UP FOR OUR EMAIL UPDATES

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.

[SIGN UP](#)

SCIENTIX DIGEST

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.

[SIGN UP](#)



SCIENTIX

The community for science
education in Europe

FOLLOW US



European Schoolnet 19h

@eu_schoolnet

If you didn't make it for the
#FSLCHAT on #Creativity &
#education have a look at:
[@BartVerswijvel](http://chirptery.com/ll/191300)

1 Retweeted by Scientix

Expand

@scientix_eu



Science Teachers in
Europe: Join the
discussion!

JOIN US

[JOIN US NOW](#)

- Request translations of teaching materials.
- Participate in forums.
- Join teachers directory.

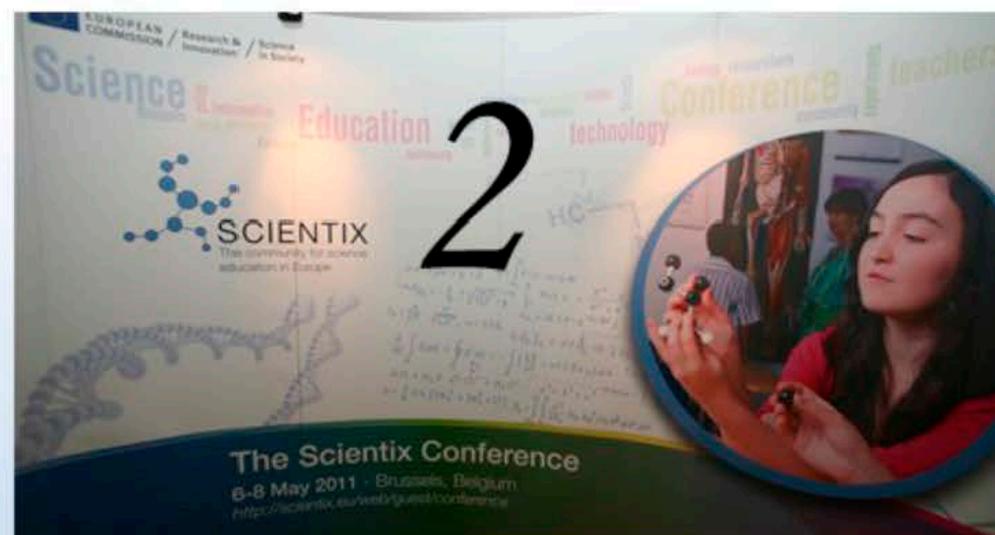
Scientix 2 European Conference

24- 26 October 2014, Brussels

- Key note speech
- Posters session
- Talks
- Round tables
- 25 stands presenting EU funded projects
- Workshops
- 550 participants**
- European Schoolnet will be covering:
 - hotel accommodation for all
 - 200 flights for teachers

<http://scientix.eu>

- *Call for papers*
- *Application for travel grants for teachers*
- *Registrations*



Scientix 2 | Agueda Gras

05/04/2014 | Riga

Teachers Spring Workshop 2

José Soares, Scientix Deputy Ambassador

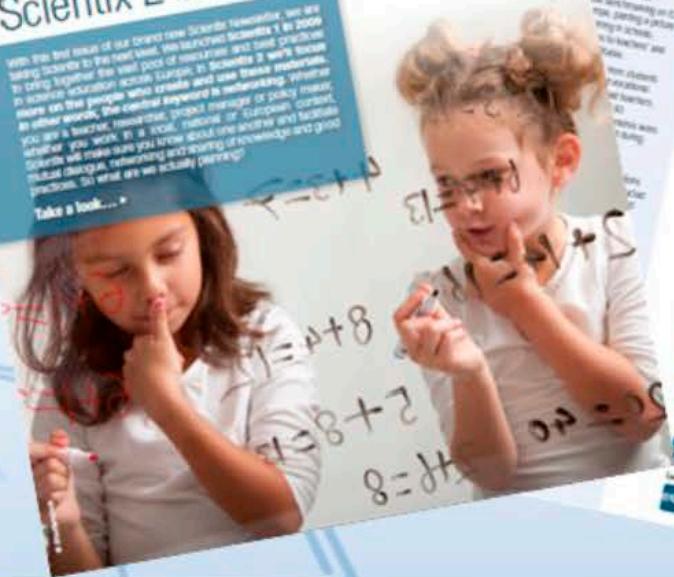
Newsletters

SCIENTIX NEWSLETTER

Scientix 2 takes off!

With this first issue of our brand new Scientix newsletter, we are taking science to the next level. We launched Scientix 2 in 2009 to bring together the vast pool of educational resources and practical science education across Europe. In Scientix 2 we're looking more on the people who create and use these materials. As ever, we're interested in what you're doing, whether you work in a school, research project, or policy area; whether you're a teacher, researcher, project manager, or European scientist. Scientix 2 makes sure you know about one another and gives mutual dialogue, networking and learning of knowledge and good practices. So what are we actually planning?

Take a look...



January 2014

European Schoolnet | Observatory

**INNOVATIVE TOOLS IN THE CLASSROOM:
IMPLICATIONS FOR LEARNING STYLES AND GENDER**

To which extent do students use innovative tools and resources in the classroom?

From previous surveys to date, teachers, trainee teachers and many other stakeholders in education have claimed that classroom technology is not being sufficiently exploited in the classroom, while a 4-year study ranging from 2006 to 2010 by European Schoolnet suggests that such potential is not being sufficiently exploited. It is also claimed that classroom technology results from the field of STEM subjects suggest that such potential is not being sufficiently exploited.

In the January 2013 survey, around 80% of students in all subjects reported that they used a number of tools and resources in the classroom, while a 4-year study ranging from 2006 to 2010 by European Schoolnet suggests that such potential is not being sufficiently exploited. It is also claimed that classroom technology results from the field of STEM subjects suggest that such potential is not being sufficiently exploited.

As figure shows, between 80% and 95% of students at present use computer terminals, online quizzes and test tools, digital books and games, mobile phones, online forums and data logging tools. Such percentages decrease when regard is given to learning styles and gender. Educational subjects not shown in the report include, i.e., health in general and vocational studies and sciences and mathematics. In contrast, students with an average level of education report that they use computer terminals and data logging tools with 70% to 80% of students at present never using them.

The Survey's statistics, questionnaire does not allow to characterize the use of tools and resources by subject, however, one can infer that students and data logging tools are particularly in science subjects. As far as gender is concerned, the analysis of the relationship between teaching and learning style and using computers and data

FIG. 1 Percentage of students using computers and tools during lessons at school (EU level, 2011/12)



January 2014

2nd SCIENTIX NEWSLETTER

Nanotechnologies in education

Almost 10 Nanotechnology projects have been funded by the EC. In this issue we show an example, with targets achieved, resources created, activities carried out, etc. You can still access it via Scientix! Projects include: nanOpinion (from where this image has been taken), nanoEIS, nanoslide, nanoyou, nanotube, nanotour, nanochannels, etc. And if you are reading this, you have very very very good eyesight! Take a look inside!

Want to learn more about nanotechnology? Here you have your molecule, it is a protein called Azurin which hosts one copper atom that is capable of exchanging electrons.

Next

Online training



The screenshot shows the European Schoolnet website with a blue header. The main navigation menu includes HOME, ABOUT, OBSERVATORY, TEACHING, NEWS, FOCUS AREAS, PARTNERS, and a search bar. A banner at the top features two children looking at a tablet. Below it, a section for the European Schoolnet Academy is displayed, featuring a video thumbnail of people in a classroom and the text "Develop your teaching practice". A large text block describes the launch of the European Schoolnet Academy as an online courses platform for primary and secondary teachers, mentioning free online courses lasting 6-8 weeks. A sidebar on the right lists "RELATED CONTENT" categories: Teaching (European Schoolnet Academy), School support, Training, Collaborate, Resources, News, Newsletters, Publications, and Events.



The screenshot shows a course page for "Innovative Practices for Engaging STEM Teaching" on the European Schoolnet Academy. The page includes a video player showing a woman speaking, a registration button labeled "Register", and a "Target audience" section. The text in the "Target audience" section states: "This course is open to anybody interested in STEM subjects. It is mainly addressed to science, engineering, technology and math teachers, career advisers and school counselors."

José Soares, Scientix Deputy Ambassador

The EUN Academy 1st STEM course

Created by: 
inGenious

Scientix contributed to the modules.

Online training



SCIENTIX
The community for science
education in Europe

Scientix Moodle

Online Users

(last 5 minutes)
None

Calendar

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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	31					

Course categories

- Scientix courses
 - A-STEM Tools for Teachers
 - B-Office Tools for Teachers
 - C-Web2 Tools for Teachers
 - D-Moodle training
- Other courses
 - SPICE
 - FP7
 - Extra courses

Mais de 30
CURSOS Scientix
Moodle
publicados, e
serão
disponíveis mais
brevemente...



Scientix presentations and workshops around Europe...

Scientix presentations and workshops = Presentations and workshops on science education, organized by Scientix





**80 Scientix Ambassadors (Teachers!)
Collaborating with the project from 30 countries**





Projeto:

“Robocode, repens@r no 1º ciclo”

O projeto “Robocode, repens@r no 1º ciclo” visa promover a aprendizagem de competências de programação, através da utilização de robôs e software, associadas à resolução de problemas. Neste sentido, a realização das atividades difere das tecnologias e metodologias utilizadas para a transmissão de conteúdos e ensino tradicional.



José Soares, Scientix Deputy Ambassador

“Scientix e o repensar de estratégias no 1º Ciclo”

Unidade 1

- **Tecnologias e Ciência**



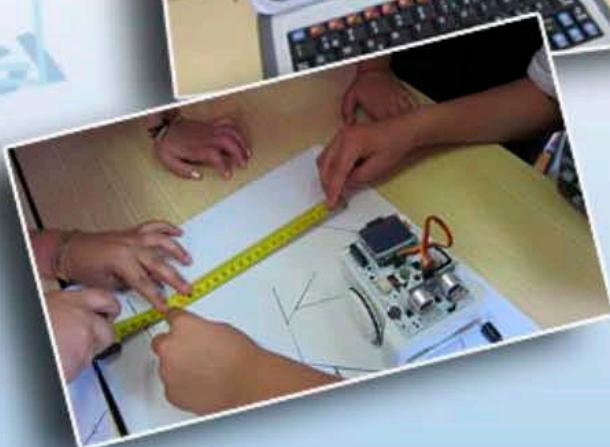
Unidade 2

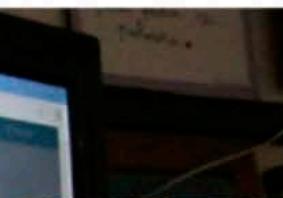
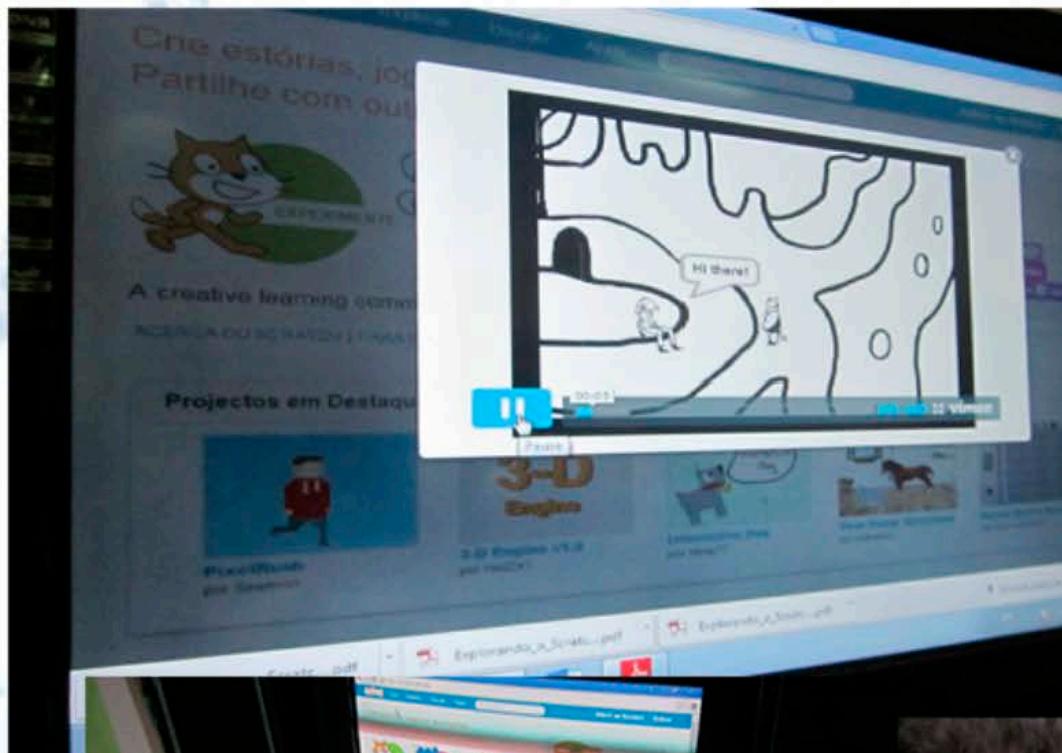
- **Linguagem de Programação**



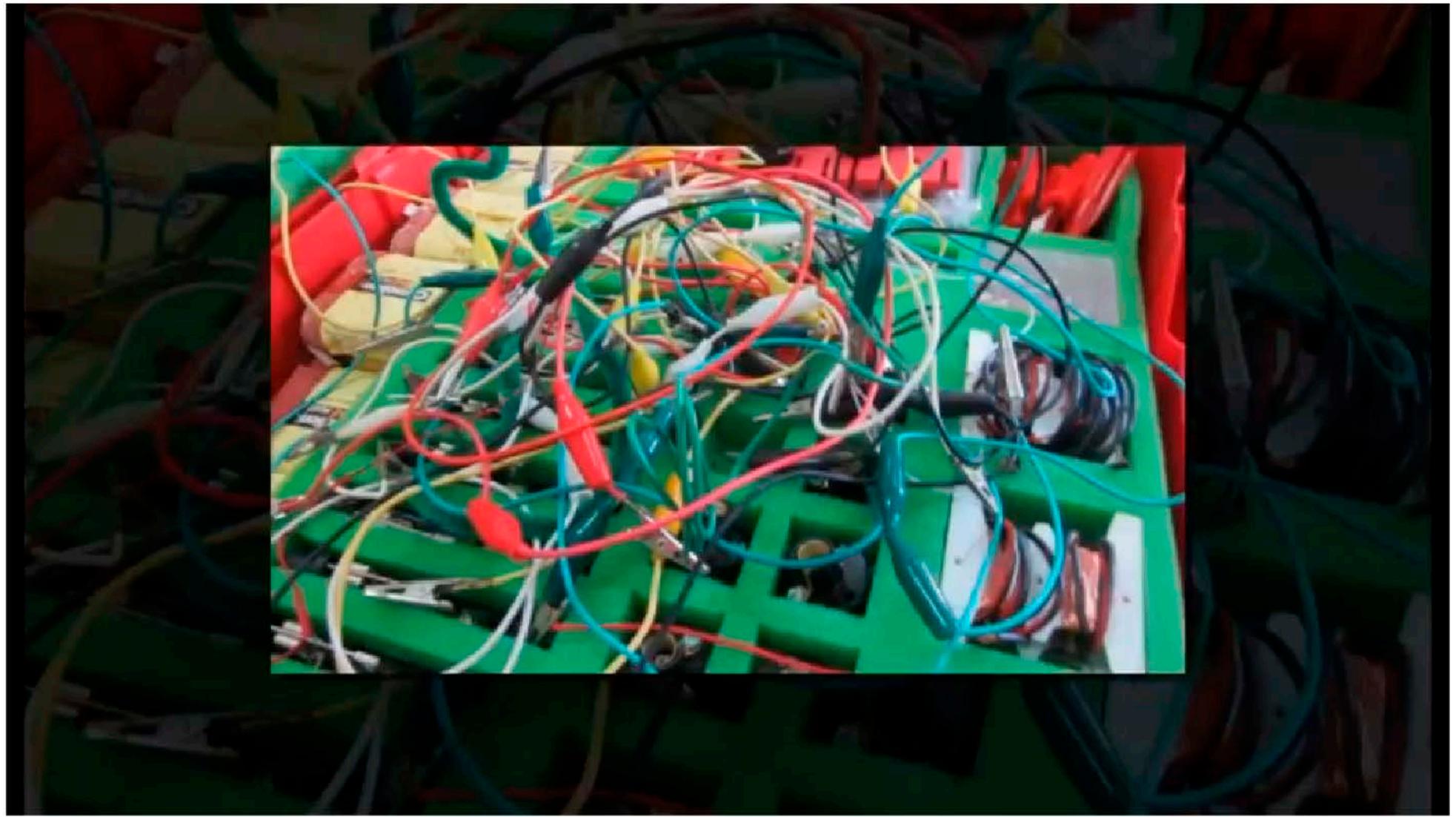
Unidade 3

- **Robótica**





José Soares, Scientix Deputy Ambassador



XV ENCONTRO DAS TIC NA EDUCAÇÃO

ENSINO, APRENDIZAGEM E TRABALHO COOPERATIVO NAS ESCOLAS



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