



# Aulas con ventanas al mundo

**Dr Agueda Gras-Velazquez**  
European Schoolnet Science Programme Manager

11/Julio/2017

This event is supported by the European Commission's H2020 programme project Scientix 3 (Grant agreement N. 730009), coordinated by European Schoolnet (EUN); and the Next-Lab project (which has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731685). The event is the sole responsibility of the organizers and it does not represent the opinion of the European Commission (EC), and the EC is not responsible for any use that might be made of information contained.







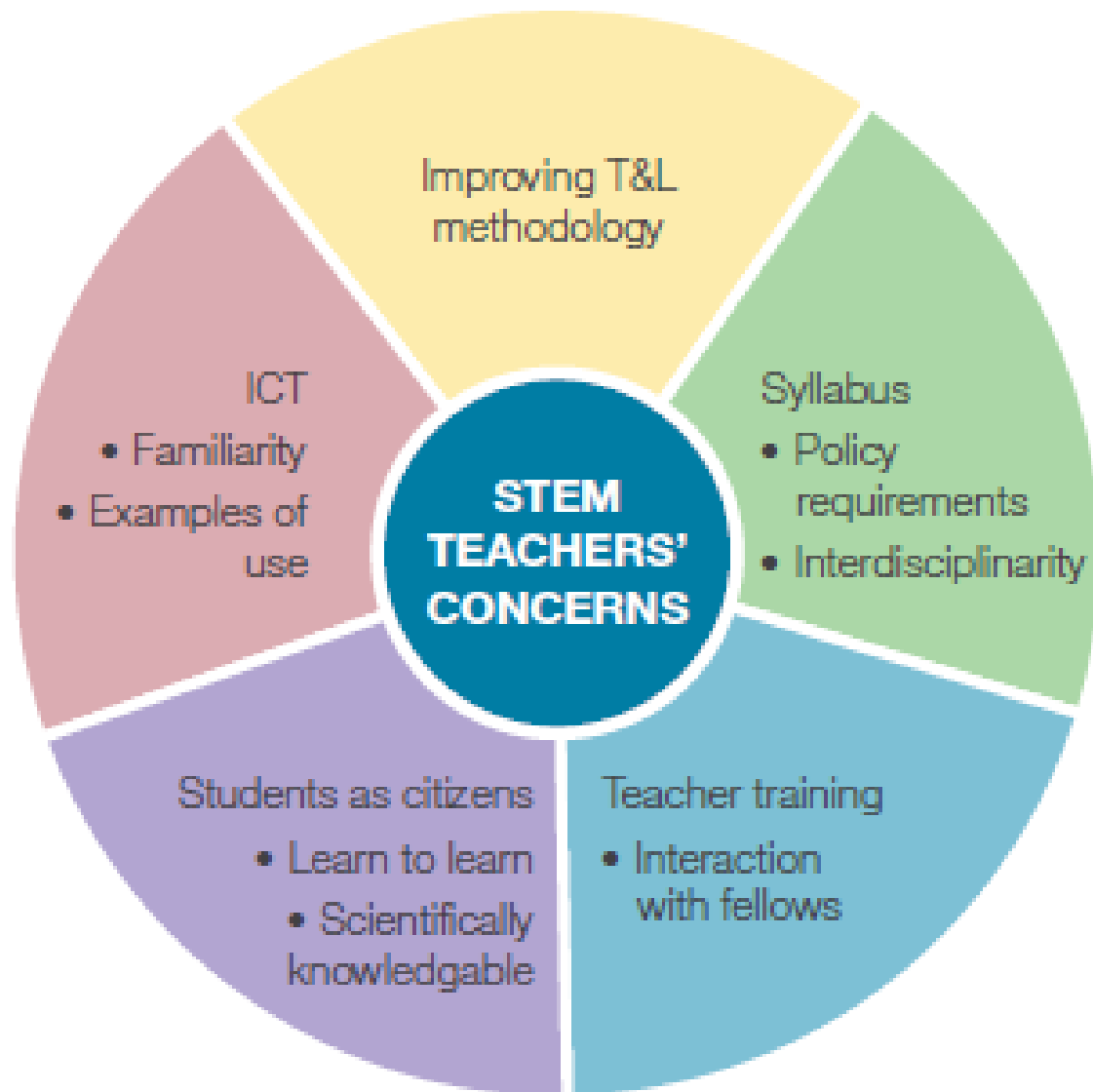






"I know the kids don't like you and pick on you, but you have to go to school...you're the teacher."





*European Schoolnet (2017) ICT in STEM Education - Impacts and Challenges: On Teachers. A STEM Alliance Literature Review, Brussels, Belgium.*



“While the introduction of ICT in education plays a role in shifting responsibility for learning from teacher to student, teachers keep an essential role” (Du Toit, 2015)



Tools

Teacher learning activities

Content

Skills acquisition

Technology Literacy

STEM Curricula

Multi front

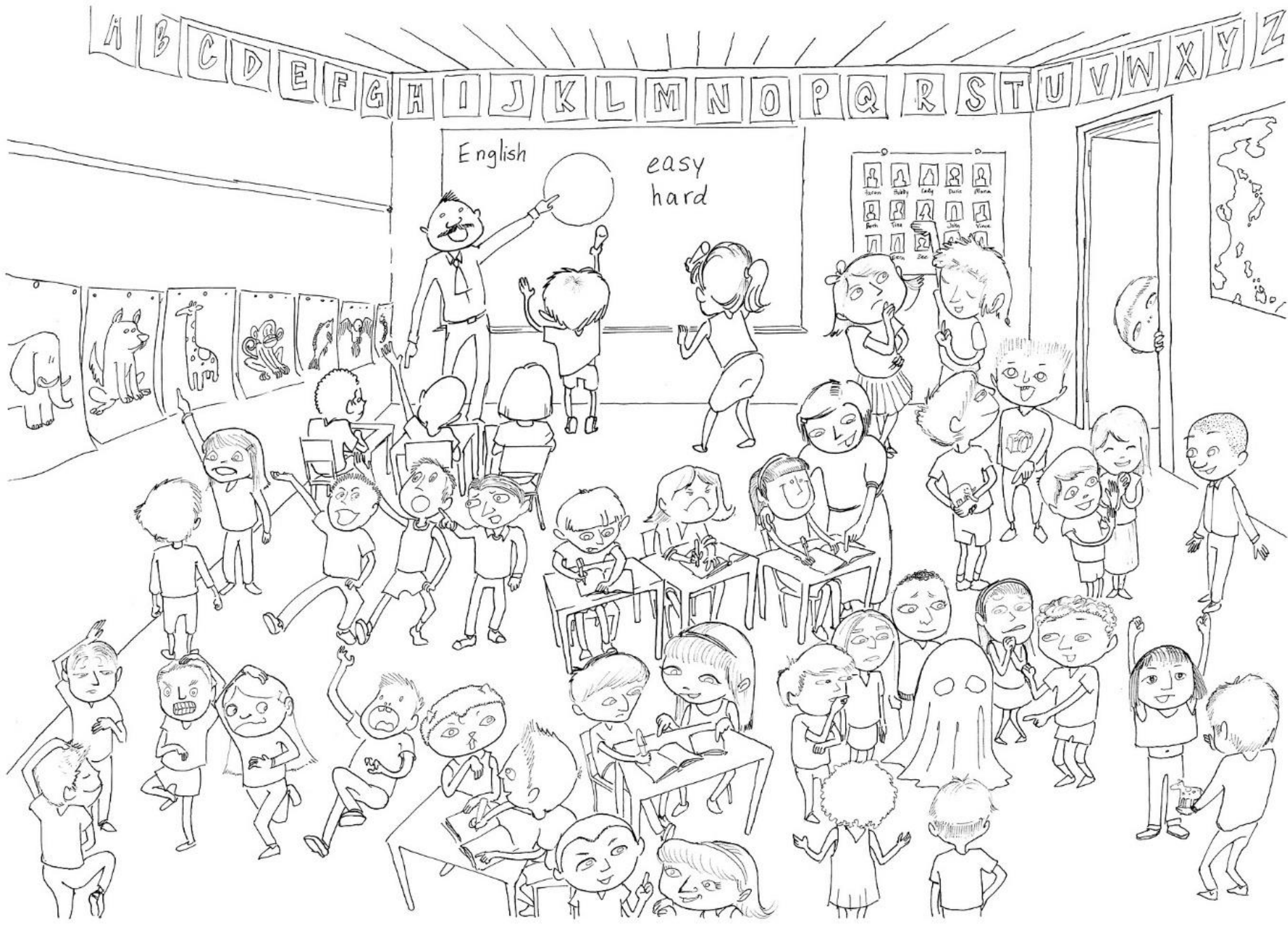
Start early

Perceptions

Careful with equity

Self-esteem and attitude

Guidance is a must







Network of 31 Ministries  
of Education

**Science Education Department**

- Training
- Piloting / School activities
- Dissemination



# Teacher training



Future  
Classroom Lab  
by European Schoolnet



**Amgen** | **Teach**  
Engaging Science Educators

**SPACE**  
awareness

**STEM Alliance**  
inGenious education & industry



Develop your  
teaching  
practice  
online for free



<http://www.europeanschoolnetacademy.eu>

Our fragile  
planet  
*October 2017*

MENTEP  
self-assessment of digital  
competences in teaching  
*November 2017*





# ‘Opening schools to STEM Careers’ MOOC

Edition for Heads of schools & Career Counselors → September 2017

on the European Schoolnet Academy



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**TRAINING**

September 2014 - August 2017

**10**  
TRAINING  
PROVIDERS from



**10** DIFFERENT  
COUNTRIES  
involved



face to face **124**  
NATIONAL COURSES  
delivered so far

**68**  
year 1

**56**  
year 2

**~60**  
expected  
for year 3



**2163** LIFE SCIENCE  
TEACHERS trained so far:

**1088** **1075** **+1150**  
year 1 year 2 year 3 (expected)

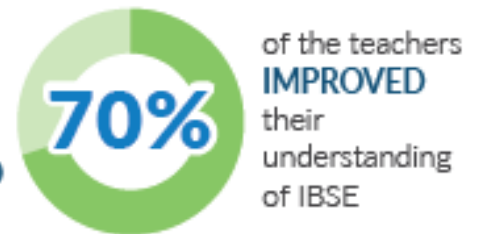
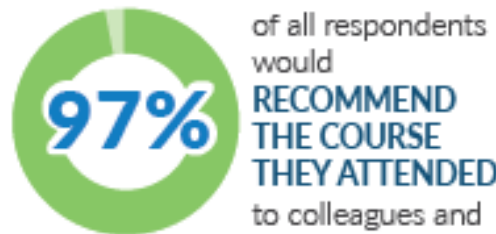
So far, over

**240,000** STUDENTS have benefited indirectly from the trainings

**~120,000** **~123,200** **+130,000**  
year 1 year 2 year 3 (expected)

**7** DISTANCE LEARNING EVENTS  
organized over the two years with **253**  
TEACHERS

Overall:







# Future Classroom Lab

by European Schoolnet





# Future Classroom Lab

by European Schoolnet





**GO-LAB**

ONLINE LEARNING  
BY EXPERIMENTING

**next lab**



**STEM Alliance**

inGenious education & industry



# GO-LAB

ONLINE LEARNING  
BY EXPERIMENTING







**Lab Repository**  
Select a lab and  
guidance apps

<http://www.golabz.eu>



**Graasp**  
Create or repurpose the  
enclosing inquiry learning space

<http://graasp.eu>



SCHOOLS

INDUSTRY

RESOURCES

CAMPAIGNS

PLATFORMS

STEM ALLIANCE 2017 PARTNERS



PREMIUM PARTNERS



GENERAL PARTNERS



Welcome to the STEM Alliance - where Industry and Education come together to improve Science, Technology, Engineering and Maths in Europe.

ABOUT THE PROJECT



# STEM Alliance

inGenious education & industry

[www.stemalliance.eu](http://www.stemalliance.eu) • [f StemAllianceEU](https://www.facebook.com/StemAllianceEU) • [@stemalliance\\_eu](https://twitter.com/stemalliance_eu)

Open doors to exciting STEM careers  
with STEM Alliance's **Professionals Go  
Back To School Scheme!**



# PGB2S

Under the patronage of Mr Tibor Navracsics, Member of the European Commission

## What is it?

- Initiative that facilitates matching of companies and school through online tool
- Once matched school & company receive info package / preparation material

<http://stemalliance.eu>



# STEM Alliance

inGenious education & industry

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## Are you a school?



**Check the  
information  
brochure**



**Access the Tool to  
collaborate with STEM  
professionals**



**Read the Guide  
Booklet**



**Download the  
Communications  
Material**

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**SYSTEMIC**  
SAY YES TO STEM IN THE CLASSROOM



# Professionals Go Back To School Scheme

## A Guide For Schools



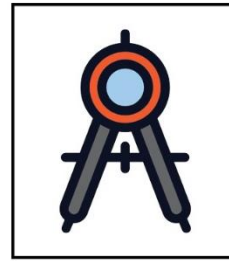
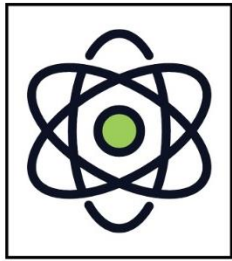
Part 1 - A practical guide for schools in three simple steps  
(click below to jump to a specific step)



- 1 Preparation
- 2 Welcoming the company
- 3 After the event

... involves various steps and responsibilities that schools need to address in order to ensure a fruitful and pleasant experience for both of the participating students. A collection of the most important school preparation process can be found below:

**Professional:** Use the PGBS tool in order to find a professional for your school. To create your profile for the tool and look for a STEM professional in the PGBS Tool User guide here: [www.stemalliance.eu/](http://www.stemalliance.eu/) If a professional you would like to collaborate with, you can send them a contact request. Once a professional has answered your contact request in the Tool, you can contact them for more details, to start planning your activity together.



# STEM

## Discovery Week

24-30 April 2017



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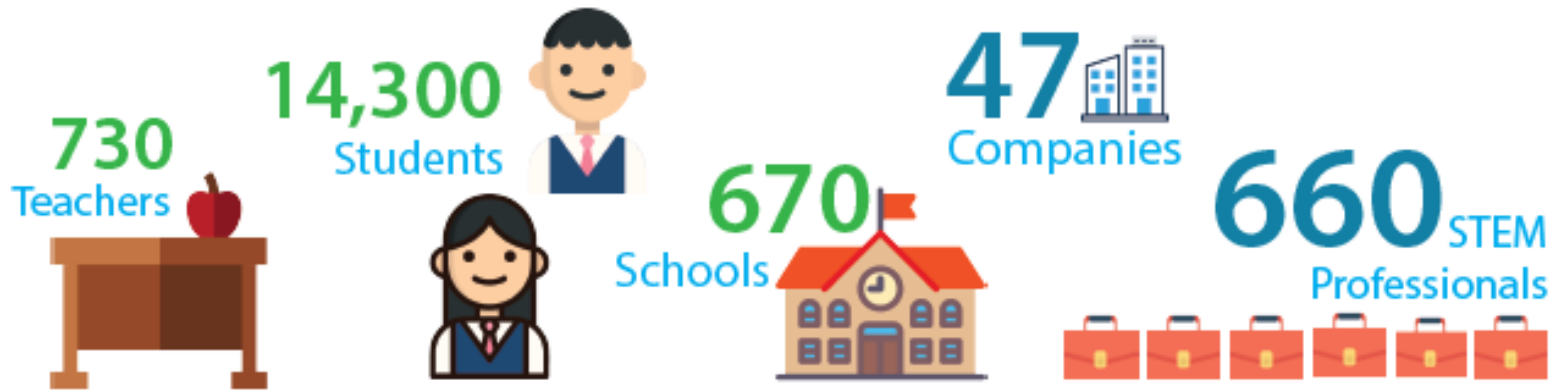


## STEM Professional Go Back to School

#PGB2S

The "STEM Professionals Go Back To School" scheme is a STEM Alliance programme to engage company professionals (technicians, scientists, engineers, researchers or employment and recruiting managers) to visit schools and participate in collaborative activities for one hour to half a day or more. The aim is to close the gap between industry and education sectors and to raise pupils and teachers' awareness around STEM careers and to promote STEM jobs.

### Results January - April 2017



**29 COUNTRIES COVERED**





## Webinars



## Chats



<http://www.stemalliance.eu/schools>



Campaña de vuelta al cole  
Septiembre 2017







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The community for science education in Europe





# SCIENTIX

The community for science education in Europe

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## IMPROVING STEM SKILLS THROUGH EUROPEAN COMPETITIONS

No matter where or how - you can find a science competition that meets your interests!

[Read more](#)



## SCIENTIX INTERVIEW SERIES



Fatiha Baki, STEM Teacher, Belgium, says Scientix helps teachers to find windows of opportunities to develop their own personal teaching skills by finding... on the other side of their... and

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Ongoing projects

APPLY FILTER



### PLATON - PROMOTING INNOVATIVE LEARNING APPROACHES FOR THE TEACHING OF NATURAL SCIENCES)

15/06/2017

The PLATON project combines student-centred methodologies such as inquiry-based learning, while promoting an innovative interdisciplinary model to address natural sciences.

[Read more .....](#)



### PHYSICAL AWARENESS

15/06/2017

The project developed as an eTwinning project in 2012 and since then it ran under different names and with slightly different goals, involving different subjects, depending on the involved students' curriculum. In 2015 it was declared runner up at the European eTwinning Prizes ceremony and the same year it was declared one of the best projects by the Italian National Agency.

[Read more .....](#)



### ICE CUBES - INTERNATIONAL COMMERCIAL EXPERIMENT CUBES

15/06/2017

In the short timeframe of one year, you can get your personally designed experiment on board the International Space Station (ISS) All you have to do is develop the experiment and ICE Cubes takes care of the rest.

[Read more .....](#)

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

SUBMIT PROJECT

*Read more on what Scientix offers to science education projects*

- [Online meeting room](#)
- [Networking events](#)

*For project managers:*

CONNECT WITH SCIENTIX!

*For project managers:*

REQUEST SUPPORT FOR  
YOUR PROJECT FROM  
SCIENTIX TEACHER  
AMBASSADORS!



♥ Añadir a favoritos

! Informar de un problema

## Juego de reciclado

*Descriptor:* química

*Derechos de autor:*  *Edad:* 9 - 12 *Proyecto:* Digital School

*Descripción:* Juego educativo que utiliza la animación para representar un bosque y se centra en el reciclado de residuos. En este juego, el jugador recoge basura que encuentra dispersa por el bosque y la coloca en los contenedores correspondientes. Asimismo, se...

DESCRIPCIÓN

CONSEGUIR ESTE RECURSO







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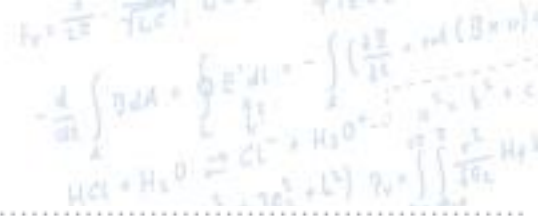
**Ver en:**  
el

**Solicitar traducción (¿Qué es?):**

en - bg - bs - ca - cs - cy - da - de - el - es - et - eu - fi - fr - ga - gl - he - hr - hu - is - it - lt - lv - mk - mt - nl - no - pl - pt - ro - sk - sl - sq - sr - sv - tr

DESCRIPCIÓN

CONSEGUIR ESTE RECURSO



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CAREERS

READ

PARTICIPATE

SPACE  
awareness

EDUCATE

DEVELOP

KNOW

# DISCOVER SPACE CAREERS

BECOME A SPACE EXPLORER



UNDERSTAND THE OPPORTUNITIES IN SPACE EXPLORATION AND  
THE CAREER POTENTIAL IT OFFERS.



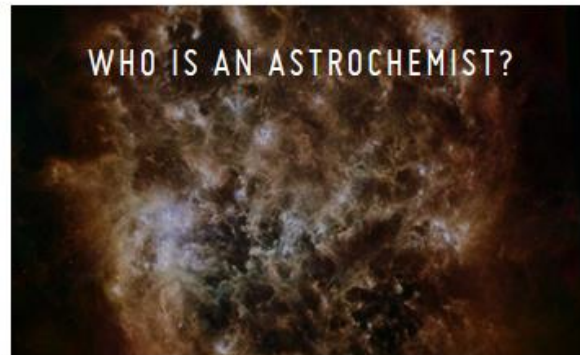
# INTERVIEWS

What is it like to have a space-related job?



# CAREERS

It is not all about becoming an astronaut!





# Scientix Projects Networking Event on Gender and STEM Education

Scientix / UNESCO / PERFORM  
December 2017

1. <https://pixabay.com/en/people-staff-construction-labor-1730665/>
2. @aguedagras CC-BY
3. <http://www.livescience.com/17000-male-nurses-masculinity.html>





# Embajadores Scientix

The following people have been selected as Scientix Ambassadors and members of the teachers' panel from 2016 to 2019.

Scientix Ambassadors help share Scientix activities at national level and play an active role in supporting innovation in STEM education in their countries. Their work is essential for expanding and consolidating a community whose core values reside in sharing of good classroom practice, especially in the area of STEM, and making sure that students are equipped with the skills needed to become successful adults.

Scientix Ambassadors:

- Disseminate Scientix at national level via social media and face to face presentations.
- Help the exchange of knowledge and good practices in the area of Science Education.
- Support and improve science education in general.

Find here teachers who are Scientix Ambassadors in your country

Albania - Austria - Belgium - Bosnia & Herzegovina - Bulgaria - Croatia - Cyprus - Czech Republic - Estonia - Finland - France - Germany - Greece - Hungary - Iceland - India - Ireland - Israel - Italy - Latvia - Lithuania - Malta - Mexico - Montenegro - Norway - Peru - Poland - Portugal - Romania - Serbia - Slovakia - Slovenia - Spain - Sweden - The Former Yugoslav Republic of Macedonia - Turkey - Ukraine - United Kingdom

3<sup>rd</sup> edition of the Scientix  
Ambassadors Training Course  
September 2017



**Jose Viñas Diéguez,**  
Cambre-A Coruña

**J. Ricardo Paredes  
Pampín,** Cambados  
(Pontevedra)

**Jose Benito Vazquez  
Dorrio,** Vigo





# SCIENTIX

The community for science  
education in Europe

*Gracias*

Agueda Gras

[agueda.gras@eun.org](mailto:agueda.gras@eun.org)

