

Amgen Teach Programme for Life Science Teachers

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New Perspectives in Science Education

17 March 2016, Florence



www.amgenteach.eu

AMGEN® Foundation
Inspiring the Scientists of Tomorrow



ABOUT US

European Schoolnet is the **network of 30 European Ministries of Education**, based in Brussels. As a not-for-profit organisation, we aim to bring innovation in teaching and learning to: Ministries of Education, schools, teachers, researchers and industry partners.

European Schoolnet pledges to:

- ➔ **Support** schools in achieving an effective use of ICT
- ➔ **Improve** and raise the quality of education in Europe
- ➔ **Promote** the European dimension in education

Through our activities, we aim to **transform teaching and learning processes**, using the integration of ICT as a force for improvement.

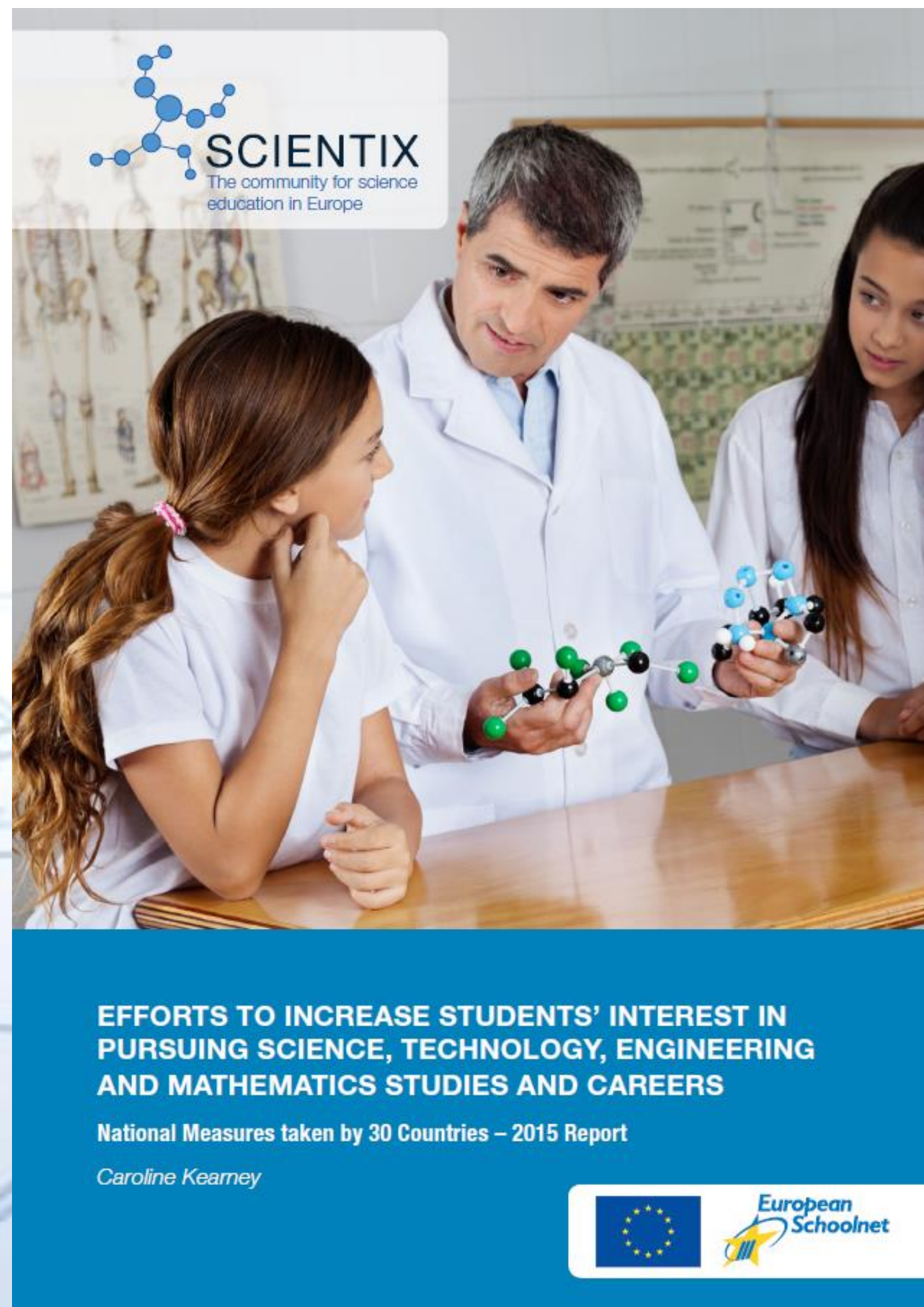
Connect with us:     

www.europeanschoolnet.org



EUN PAST AND CURRENT STEM PROJECTS





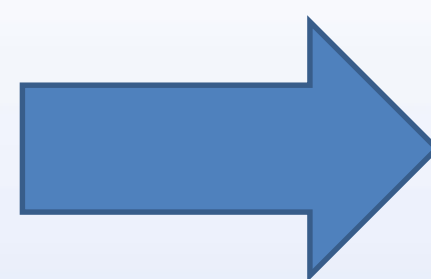
- Underachievement in STEM a priority area.
- Wide implementation of inquiry-based learning.
- Changes to the curricula:
 - Effective ICT use.
 - New STEM resources.
 - New pedagogy.
 - More focus on training of in-service teachers than initial teacher training.

WHERE CAN YOU FIND IT?

On the Scientix online portal:

www.scientix.eu/

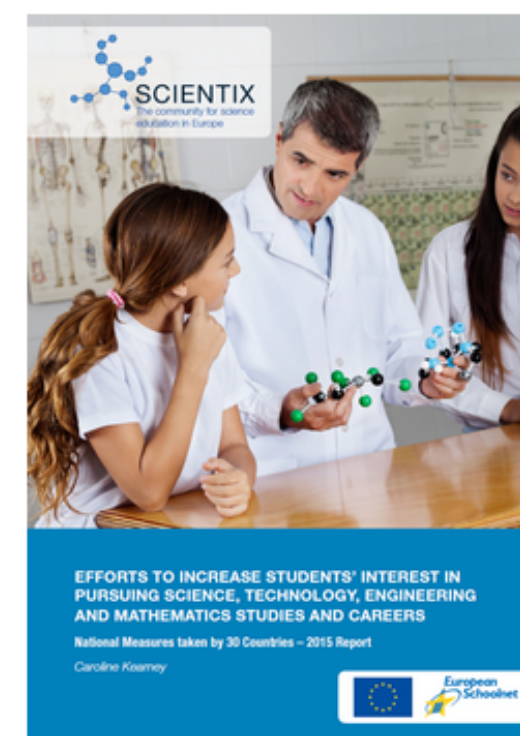
- Full report.
- Executive summary.
- 18 national responses.
- Introductory video



Home > Observatory > comparative-analysis-2015

EFFORTS TO INCREASE STUDENTS' INTEREST IN PURSUING SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS STUDIES AND CAREERS

NATIONAL MEASURES TAKEN BY 30 COUNTRIES – 2015 REPORT



The information provided in this report is based on the national contributions received from the Scientix [National Contact Points](#) representing 30 countries, in response to a survey on national measures and initiatives to increase students' interest in pursuing STEM studies and careers, launched in the summer of 2015 by [European Schoolnet](#). This main source of data is complemented with information presented by a number of Ministries of Education during European Schoolnet's annual conference, [Eminent](#), on 18-19 November 2015, which was organised by the Scientix project.

The previous edition of the current report was published in 2011. This report is the latest edition, and has been written by European Schoolnet, with the support of the project Scientix. This latest report in the series updates the information published on certain issues in the 2011 edition, provides further information where available

about ongoing initiatives, as well as new information concerning the additional nine countries who have contributed to this year's report (Bulgaria, Croatia, Cyprus, Greece, Hungary, Latvia, Malta, Poland, and the United Kingdom).

Moreover, this 2015 edition of the report has a **special focus on teacher education policies and initiatives**. This focus is the result of the previous edition of the report (covering a wide range of issues in relation to STEM education), which identified improving initial teacher education and continuous professional development at the heart of the drive to make STEM studies and professions a more popular option for young learners. This current edition looks more deeply into how countries are developing initiatives in these areas.

DOWNLOAD THE EXECUTIVE SUMMARY

DOWNLOAD THE FULL REPORT



Amgen Teach Programme for Life Science Teachers

Content:

- Main programme objectives
- Main programme characteristics
- Face to face & online activities
- Evaluation



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Main objectives

- Launched in 2014, Amgen Teach supports hundreds of science teachers each year across Europe through meaningful professional development opportunities.
- Supported by a €2 million grant from the Amgen Foundation over a three-year period, Amgen Teach deepens student interest and achievement in science by strengthening the ability of life science secondary school teachers to use enquiry based teaching strategies in the classroom.
- Amgen Teach uses training workshops and distance learning events to provide educators with the skills and confidence to transform the student experience in learning science

Main characteristics



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Centralized registration & Evaluation

Face-to-Face national activities

Training Providers



Deutsches Museum



science2school
FORSCHEN : LERNEN



Warszawskie Centrum Innowacji
Edukacyjno-Społecznych i Szkoleń
Instytucja Edukacyjna m. st. Warszawy



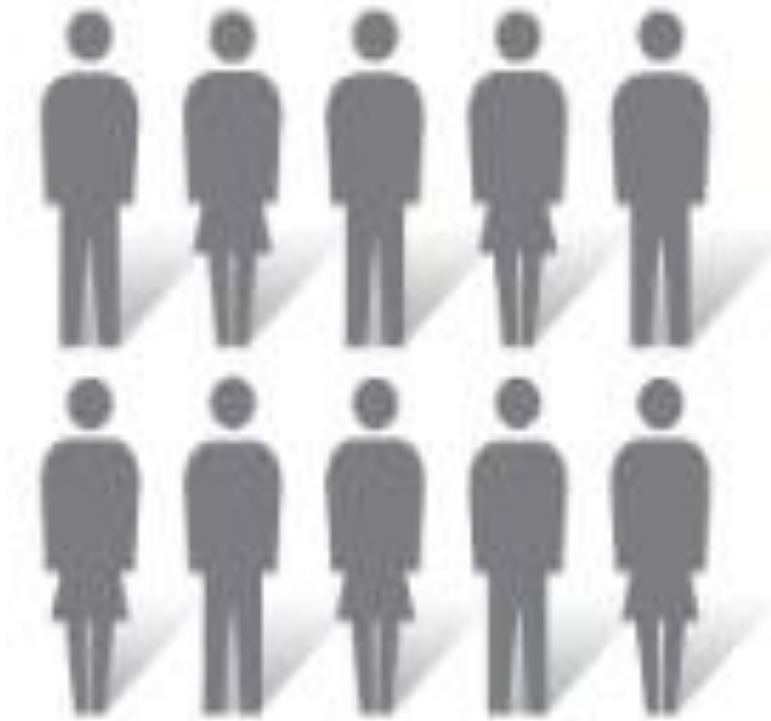
FCRI
Fundació Catalana per a la
Recerca i la Innovació



An tSeirbhís um Fhorbairt
Ghairmiúil do Mhúinteoirí
Professional
Development
Service for Teachers

Face-to-Face national trainings

- Duration: 2-3 days
- Objective: to improve teachers' ability and confidence to use IBSE methods in the classroom



training

1,000
TEACHERS

impacts

100,000
STUDENTS

Face-to-Face international workshops

Workshops in the Future Classroom Lab

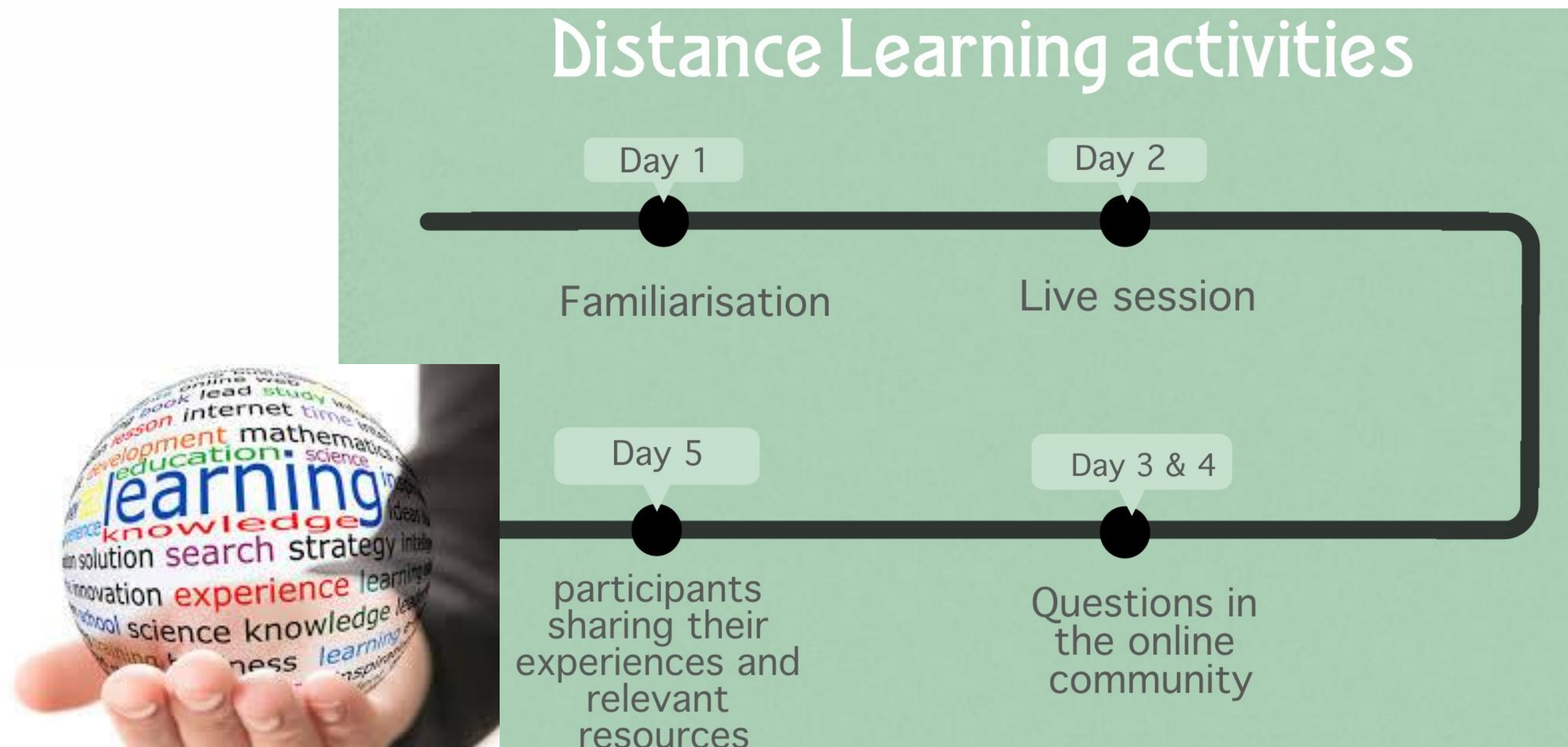
Rethinking
teaching and
learning



- Discover resources for promoting life science and IBSE in an interactive classroom
- Discover new tools and methodologies to increase interaction in the classroom
- Use a mix of media and tools in the FCL
- Share experiences and exchange best practices with other teachers from other European countries

Online Distance Learning Activities (DLAs)

- 3 DLAs per academic year (e.g. “Nanotechnology around us”, “Stem cells biology”, etc)
- Short and intensive **online learning course** of **5 days** duration



Teacher Community

Join the Forum




Participate in Distance Learning Activities



Browse Teaching Resources



Join the forum



Engaging Science Educators

GINA MIHAI

SIGN IN

✓ Your request processed successfully.

SIGN OUT

You are signed in as Gina Mihai.
Sign Out

Web Content Display - Look and Feel - Configuration - Close

TEACHER COMMUNITY

FORUM

DISTANCE LEARNING ACTIVITIES

RESOURCES

WELCOME TO AMGEN TEACH TEACHERS' COMMUNITY FORUM

Please, note that to access the Forum and the Picture gallery, you need to be logged in with your openID.

If you do not have an openID, it is because you did not [register to the programme](#) yet.

HERE YOU CAN:

See the frequently asked questions in the forum, ask your own questions and start networking with fellow teachers from all over Europe!

Share pictures of your class implementing some Enquiry based learning activities, or some pictures of your face-to-face training.

Please make sure everyone appearing on the picture gives their consent before you upload it. The best pictures will be used for promoting the Amgen Teach programme on websites and/or brochures, giving extra visibility to you and your school.

CATEGORY	CATEGORIES	THREADS	POSTS	
1. Workshop with AmgenTeach teachers in the FCL, 22-24 April 2016, Brussel				Actions
Respond to these questions to apply for the workshop on 22-24 April 2016. 15 teachers will be selected taking into account a fair distribution of places by country and quality of interventions	0	8	51	Actions
5. Spain training, 25/11/15 & 16/01/16 - Methodological Discussion				Actions
Dear Teachers, Your training activity is about to finish! What about staying in touch with colleagues and keeping discussing with them? Feel free to use this space to do so!	0	3	4	Actions
6. France training- When Life inspires Chemists				Actions
Living organisms can produce a wide range of biomaterials, and studying their development is extremely interesting in order to produce custom-made sustainable materials. Stay in touch with colleagues	0	1	1	Actions
Forum 1: Lessons learned and impact of the 1st year of training				Actions
<u>Subcategories:</u> Recommendations for the 2nd year of training provided by Amgen?, What do you remember most from the training?, What have you used from the trainings in your class already?, What is the biggest problem you have had in implementing IBSE?	4	13	37	Actions
Implementation of IBSE in Amgen Teacher Trainings				Actions
	0	2	5	Actions
News				Actions
	0	1	2	Actions

SIGN IN

✓ Your request processed successfully.

SIGN OUT

You are signed in as Gina Mihai.
Sign Out

Web Content Display - Look and Feel - Configuration - Close

TEACHER COMMUNITY

FORUM

DISTANCE LEARNING ACTIVITIES

RESOURCES

FORUM

Categories | My Posts | My Subscriptions | Recent Posts | Statistics | Banned Users

Search Search Categories Add Category Permissions

Showing 13 results.

CATEGORY	CATEGORIES	THREADS	POSTS	
1. Workshop with AmgenTeach teachers in the FCL, 22-24 April 2016, Brussel				Actions
Respond to these questions to apply for the workshop on 22-24 April 2016. 15	0	8	51	Actions

Participate in Distance Learning Activities

The screenshot shows the Amgen Teach website interface. At the top, the user is logged in as GINA MIHAI, and the language is set to English. The navigation menu includes 'Public website', 'Teacher Community', and 'Login Help'. The main content area is titled 'WELCOME TO THE DISTANCE LEARNING ACTIVITIES' and contains several sections: 'WHAT IS A DISTANCE LEARNING ACTIVITY (DLA)?', 'WHY SHOULD I PARTICIPATE?', 'HOW DO I PARTICIPATE?', 'I HAVE TROUBLES IN JOINING THE DLA. WHAT SHOULD I DO?', and 'UPCOMING DLAS:'. The 'UPCOMING DLAS' section lists 'AMGENTEACH DLA6 - TESTING SCIENTIFIC SKILLS: EXPLORING A PROTOCOL TO CONSTRUCT EXAMS QUESTIONS TO ASSESS SCIENTIFIC THINKING'. On the left sidebar, there is a 'TEACHER COMMUNITY' menu with options for 'FORUM', 'DISTANCE LEARNING ACTIVITIES' (highlighted with a red box), and 'RESOURCES'. The 'SIGN IN' and 'SIGN OUT' buttons are also visible.

Browse Teaching Resources

The screenshot shows the Amgen Teach website interface. At the top, the user is logged in as GINA MIHAI. The navigation menu includes 'Public website', 'Teacher Community', and 'Login Help'. The left sidebar contains a 'SIGN IN' section, a 'SIGN OUT' section (indicating the user is signed in as Gina Mihai), and a 'Web Content Display - Look and Feel - Configuration - Close' section. The main content area is titled 'RESOURCES' and contains a message: 'To access this section, you need to be logged in with your openID. If you do not have an openID, it is because you did not register to the programme yet.' Below this message, there is a section titled 'HERE YOU CAN ACCESS:' with a list of links: 'Amgen Teach Videos', 'Amgen Teach webinar recordings', 'Teachers testimonials', and 'Access to former DLAs'. At the bottom of the screenshot, there is a table titled 'RESOURCES FROM TRAININGS (BY COUNTRY)' with columns for 'FOLDER', '# OF FOLDERS', and '# OF DOCUMENTS'. The table lists two folders: 'AUSTRIA' and 'BELGIUM'.

RESOURCES

To access this section, you need to be logged in with your openID.
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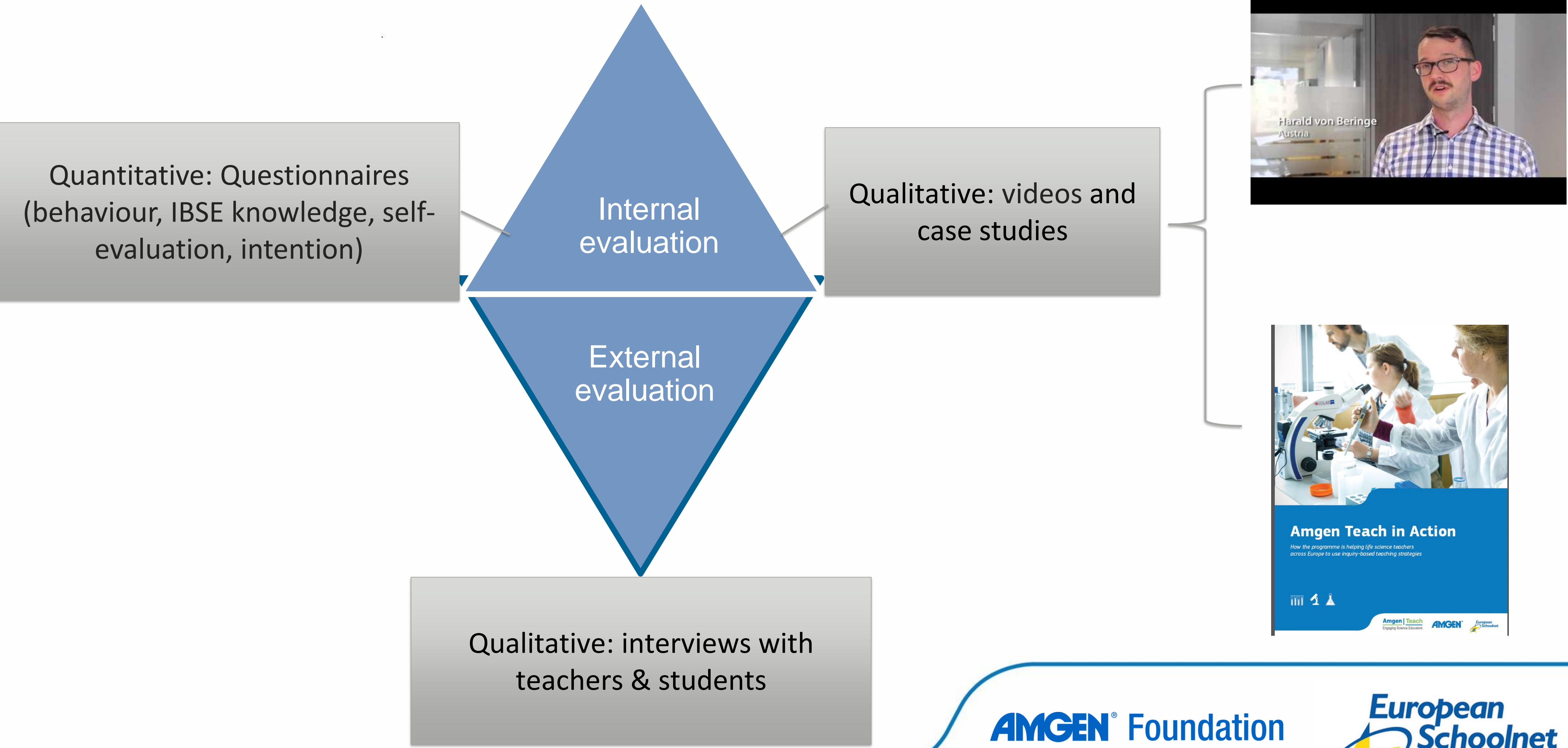
HERE YOU CAN ACCESS:

- Amgen Teach Videos
- Amgen Teach webinar recordings
- Teachers testimonials
- Access to former DLAs

RESOURCES FROM TRAININGS (BY COUNTRY)

FOLDER	# OF FOLDERS	# OF DOCUMENTS
AUSTRIA Subfolders: Gemüse bestimmen_Versuche mit Pflanzen, Gerechtigkeitsbecher, Mandalavorlagen für Pipettenversuche, ViOLab Unterlagen, wie wissenschaft funktioniert_paläontologen	6	26
BELGIUM	0	1

Evaluation: Impact of activities



Thank you!

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