



# TALETE

Teaching mAthS through innovative Learning approach  
and conTEnts

LIFELONG LEARNING PROGRAMME  
COMENIUS

Coordinated by Università degli Studi "G.Marconi"

*The Future of Science Education and  
science work in Europe  
Rome, 10 September 2012*



*This project has been funded with support from the European Commission. This communication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.*

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Lifelong Learning Programme: COMENIUS  
TALETE project, number 518518-LLP-1-2011-1-IT-COMENIUS-CMP

Elaborated by (Name of the organization)	Università degli Studi "G. Marconi"
Conference Name	The Future of Science Education and science work in Europe
Date	10 <sup>th</sup> September 2012
Place	Rome
Type of Audience	School teachers, PhD students, Educational stakeholders, Career Orientation, Universities
Size of Audience (n°)	41

## INDEX

CONFERENCE OBJECTIVES AND TOPICS .....	4
CONFERENCE DATE AND VENUE.....	4
TALETE PRESENTATION .....	4
TALETE DISSEMINATION ACTIVITY .....	6
ANNEXES .....	6
1. CONFERENCE PROGRAM .....	6
2. THE .PPT PRESENTATION .....	6
3. THE ATTENDANCE SHEET .....	6

## *Conference Objectives and Topics*

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“The Future of Science Education and science work in Europe” conference is the final public event of the SEEP Network project - Project number:156699-LLP-1-2009-1-IT-COMENIUS-CN - Grant Agreement Number: 2009-3815/001-001. It took place in Rome, September 10<sup>th</sup>, 2012. Please, see the Annex N. 1 - Conference programme.

## *Conference date and venue*

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The conference took place on September 10<sup>th</sup>, 2012 at the Università degli Studi Giglielmo Marconi” - Via Plinio, 44 - Rome.



## *TALETE presentation*

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Ms Michela Tramonti and Prof. Fabio Rinaldi, a member of the TALETE research team, presented the TALETE project, the aims, the results and the products to be achieved.

Please, see the all the ppt presentations enclosed to this report.

They showed the prototype in order to describe how the TALETE scenarios, based on the PISA, TIMSS and national assessment schedules concerning the mathematics and geometry, works in the TALETE training path. They also showed the TALETE training and learning environment.

Please, see the ANNEX N.2 - The ppt presentation.

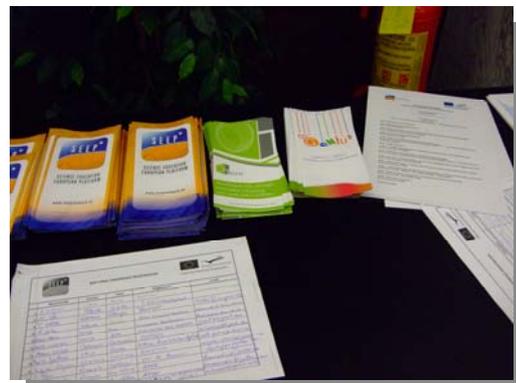




### *TALETE dissemination activity*

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During the conference the TALETE project brochures have been handed out and a stand was arranged with all information materials. A attendance certificate was delivered to all participants.



### *Annexes*

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1. Conference program
2. The .ppt presentation
3. The attendance sheet



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Science Education  
European Platform

## THE FUTURE OF SCIENCE EDUCATION AND SCIENCE WORK IN EUROPE

ROME, 10 SEPTEMBER 2012  
9.00 - 17.30

[WWW.SEEPNETWORK.EU](http://WWW.SEEPNETWORK.EU)

Venue: Università degli Studi Guglielmo Marconi Via Plinio 44 RM



Science Education  
European Platform



Education and Culture DG  
Lifelong Learning Programme

**SEEP NETWORK FINAL SEMINAR**  
***“The future of science education and science work in Europe”***

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**PROGRAMME**

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10<sup>th</sup> September 2012

9:00 – 13:15

Location: Università degli Studi “Guglielmo Marconi” – Aula Magna, Via Plinio 44, Roma

**9.00 – 9.30** Registration of participants

**9.30 – 09.45** Welcome and Presentation of Università degli Studi Guglielmo Marconi  
*Ms Ilaria Mascitti (USGM)*

**09.45 – 10.00** Presentation of SEEP Network  
*Ms Valentina Berni (USGM)*

**10.00 – 10.45** SEEP project across Europe: Results and Prospects  
*Mr Gonzalo Santamaria CECE, Ms Rodica Gavril ASACHI, Ms Merve TOPACA - Kocaeli Valiliği AB Projeler Koordinasyon Merkezi, Dr Antoine Gambin (OAFMalta)*

**10.45 – 11.00** Coffee Break

**11.00 – 11.15** SEEP - Three dimensions : Innovation and Science Careers in Vocational Education  
*Emmanuel Gatt (MCAST, Malta)*

**11.15 – 11.30** SEEP - Three dimensions : informal learning environments  
*Ms Lucy Avraamidou Associate professor and Mr Panayiotis Angelides Professor – University of Nicosia*

**11.30 – 12:15** SEEP - Three dimensions : network wide consultation, policy recommendations from SEEP  
*Desiree Scicluna-Bugeja, University of Malta*

**12:15 – 12:30** TALETE Project “Teaching mAthS through innovative LEarning approach and conTEnts”  
*Ms Michela Tramonti (USGM)*

**12:30 – 12:45** SCENE project “Problem-Based Learning (PBL) as teaching method in Science classrooms”  
*Ms Susanna Correnti - FORCOM - Mr Corrado Sesselego - Endofap Liguria*

**12:45 – 13:00** The Mobile Learning future: an opportunity for the Science education  
*Mr Corrado Sesselego - Blue Monkey Studio*

**13:00 – 13.15** Closure of seminar  
*Ms Valentina Berni (USGM)*

**13.15** Lunch Buffet

Project number: 16069-LP-1-2009-1-LT-COMENIUS-DW - Grant Agreement Number: 2009-3815001-001



## Teaching mAthS through innovative LEarning approach and conTEnts

Fabio Rinaldi  
Michela Tramonti

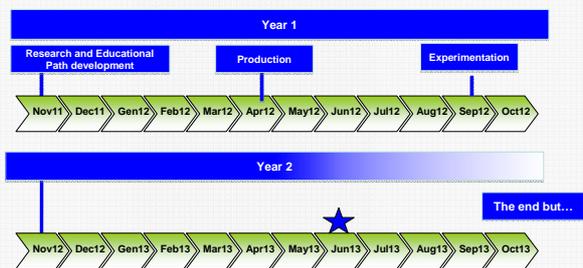
The Future of Science Education and science work in Europe  
Rome, 10 September 2012



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## General Project Information



Funding Programme: LLP – COMENIUS - Multilateral Projects



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- The Partners are:**
- UNIVERSITY OF THESSALY - Greece
  - KADIKOY M.E.M. - Turkey
  - IAL Lazio Srl Impresa Sociale - Italy
  - BURGAS FREE UNIVERSITY - Bulgaria
  - REZZABLE PRODUCTION LTD - United Kingdom



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## Project background and motivation

The learning of the mathematics literacy enables students to contribute effectively in actual society, improving their employment prospects.



The worldwide surveys report that EU students often lack mathematical competence and key basic competences in science and technology.



European Ministers set the target to reduce the average of students with difficulties in reading, maths and science in order to reach fewer than 15% by 2020.



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## Objectives

- New teaching and learning method for maths.
- Quality in the learning.
- 3D virtual world.
- Establishing school partnerships.



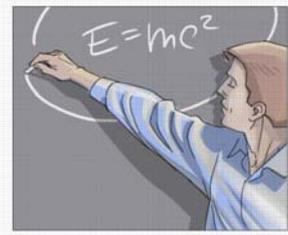
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## Target Groups

Teachers

Students



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## How to assess these aspects?

There are two tools providing information giving a complete picture of how students perform in key subject areas in order to assist policymakers, researchers and the public authorities in the educational strategies definition:

- Trends in International Mathematics and Science Study /TIMSS/
- Program for International Student Assessment /PISA/



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## Why TIMSS and PISA?

TIMSS and PISA are complementary tools developed by international group of experts attempted to assess different features of student learning

- TIMSS sought to find 'what students know'
- PISA sought to find 'what students can do with their knowledge'



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## Sometimes the Maths learning can be...

**BORING!!!!**

Why?

The teaching is:

- static
- far from everyday life
- mechanic
- repetitive



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## The TALETE project intends...

To improve teaching methods through **innovative pedagogical tools** integrating theory and practice and favoring approaching to math subjects, especially geometry

The Maths learning will get:

- more creative
- dynamic
- flexible
- funny

making the difficulties more simple



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## How?

- Investigating different ways of the math representation in the topics defined already in the PISA, TIMSS and in the national surveys of the countries involved.
- Selection of assessment schedules to be represented in 3D virtual scenarios to students
- Designing and development of the TALETE training path model



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## TALETE learning environment

E-Learning Platform



for teachers



and

3D virtual environment



for teachers and students



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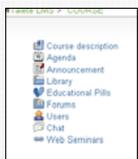
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## TALETE training path

It is constituted of two main parts as follows:

- first part: it will start up from the training of the teachers involved in the experimentation phase.

It will be structured in educational pills delivered through the e-learning platform where they will know the contents and be able to get more familiar also with the 3D virtual environment to be used with their students during the next step.



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## TALETE training path

- second part: the teachers involved will test the engaging and innovative pedagogical tools with their students in 3D virtual world.

Trained teachers will teach their students how to use project virtual environment. They will monitor, support, and manage the virtual training of their students based on the selected assessment schedules re-produced into 3D scenarios.

[1° Prototype](#)



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## Conclusions

The TALETE project will allow two different impacts on the target groups:

- as to the teachers, to provide innovative pedagogical tools strictly connected with the maths topics of the national school curriculum, in order to improve the quality of teaching making it more flexible and fun and reducing the number of low-performs of students.
- as to the students, to improve mathematical literacy skills, contrasting with the interest lack among students for the scientific and technical studies.



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***Thank you for listening!***

*For any other information, please contact us!*

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