Projects and Products Portal for Leonardo da Vinci

Animated Science

LLP-Ldv-Tol/DK/2007/712

http://www.adam-europe.eu/adam/project/view.htm?prj=4195

Project Information

Title: Animated Science

Project Number: LLP-Ldv-Tol/DK/2007/712

Year: 2007

Project Type: Transfer of Innovation

Status: completed

Country: DK-Denmark

Marketing Text: This project will contribute to make the initial science education much more motivating by introducing and giving science teachers a specialized training course in the use of anima-tion as a didactic tool. Animation is a strong, visual language with many didactic forces. When using animation the science teachers are involving pupils and students actively in their own learning process. By creating they go behind the phenomena, they learn, they understand, they control and they feel 'seriously amused'. Also animation makes it possible to embrace all students in the class-room - the teaching becomes inclusive. A large number of scientists, who work with cognitive psychology and pedagogy, have stressed that the new creative tools contain remarkable potential because of their inclusive character.

This project proposal is based on the project "Teaching with Animation" (TWA) – see sec-tion B.2. TWA is a project that intends to contribute to making teaching with animation a much more frequent and well-disseminated learning methodology in the general curricula in the future primary and secondary school system in Europe, than the situation is today. To achieve this aim the project has developed a user-friendly and low-cost self-instructive train-ing manual in how to start teaching with animation. The manual can work as a tool for teaching all age groups and both children with and without learning disabilities, and there is no restriction on which subject they teach. The central aspect of this project has been the training of active teachers and in minor scale initial teacher training.

Summary: The project intends to contribute to making science education in primary and secondary schools more interesting and motivating to a larger group of students than the situation is today. Reports and tests such as e.g. the PISA Test (Programme for International Student Assessment) show that the students' literacy in science is poor. Moreover, the students' interest in science is remarkably low and a large number of people would not consider studying or making a career in the field of science.
This project intends to cope with this tendency and will contribute to make science more interesting and appeal-ing to a larger group of students. The way to achieve this aim is to introduce animation as an innovative, inclu-sive and didactic tool and provide the science teachers with an online vocational training tutorial teaching them how to implement animation in their teaching in the primary and secondary schools.

The online vocational training tutorial for science teachers will be developed, tested and disseminated by a part-nership of European organisations with expert knowledge and experience in using animation as an innovative learning methodology. In addition, the partners have experience in the development of further education material for teachers and in teacher training. A part of the partnership is currently in the process of developing a teacher training manual on how to teach with animation.

These experiences make the partnership very competent in developing a tutorial for teachers. The partners, animators as well as researchers, are used to collaborating with teachers and to transferring alternative teaching methods into concrete lesson plans. Furthermore, they have acquired an understanding of the educational cul-ture of teachers and are capable of combining and transferring the competences from the field of animation to the educational sector. To strengthen the partnership even further, experts in the field of science are also in-volved in the development of the tutorial in order to assure that the illustrated topics are well-chosen and that the lesson plans are applicable.

Project Information

Description:

The online vocational training tutorial will consist of concrete lesson plans that will be a step by step guide to the teachers on how to implement animation in their teaching. The concrete lesson plans describe a scientific topic which is illustrated with an animation. Furthermore, the lesson plans include a description on how the animation is made and how the teacher can use it either as an illustration or as an assignment for the students in a teach-ing situation. The tutorial will also include guidance and advices and various examples of animation used in sci-ence. The teachers will get a tool so they are able to approach and communicate dry and difficult topics in an entertaining and different way and gain the students interest in the field of science.

Themes: *** Initial training
** Lifelong learning
** Continuous training
* ICT
* Open and distance learning

Sectors: *** Education

Product Types: website
material for open learning
evaluation methods
DVD

Product information: "Animated Science": DVD and Booklet. An Interactive Guide for teachers on how to teach science and nature with animation.

"Animated Science": Online Interactive Guide for Teachers on how to teach science and nature with animation. www.animatedscience.dk

"Teaching with Animation": An interactive guide for teachers on how to teach with animation. Find it on: www.animwork.dk/twa.

Projecthomepage: www.animatedscience.dk

Project Contractor

Name:	VIA University College
City:	Aarhus
Country/Region:	Arthus Amt
Country:	DK-Denmark
Organization Type:	National Agency
Homepage:	http://www.viauc.dk

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Partner

Partner 1

Name: KINOBUSS MTÜ
City: Tallinn
Country/Region: Eesti
Country: EE-Estonia
Organization Type: others
Homepage: http://www.kinobuss.ee

Partner 2

Name: CAND - Centre for Applied Science Didactics
City: Aarhus
Country/Region: Arthus Amt
Country: DK-Denmark
Organization Type: research institution
Homepage: http://www.cand.nu/

Partner 3

Name: University of Kiel, Didaktik der Chemie, Leibniz-Institut für die Pädagogik
City: Kiel
Country/Region: Schleswig-Holstein
Country: DE-Germany
Organization Type: university/Fachhochschule/academy
Homepage: http://www.ipn.uni-kiel.de

Partner 4

Name: Pedagogical University of Denmark
City: Copenhagen
Country/Region: Kobenhavns Amt
Country: DK-Denmark
Organization Type: university/Fachhochschule/academy
Homepage: http://www.dpu.dk

Partner

Partner 5

Name:	University of West of England (UWE), Bristol School of Art, Media and Design
City:	Bristol
Country/Region:	South West (UK)
Country:	UK-United Kingdom
Organization Type:	National Agency
Homepage:	http://www.uwe.ac.uk/

Project Files

Agenda_Initial_meeting.doc

http://www.adam-europe.eu/prj/4195/prj/Agenda_Initial_meeting.doc

W1

Common Goals_Nature&Science.doc

http://www.adam-europe.eu/prj/4195/prj/Common%20Goals_Nature%26Science.doc

Common Goals_Nature&Science.pdf

http://www.adam-europe.eu/prj/4195/prj/Common%20Goals_Nature%26Science.pdf

curriculum 4th to 6th grade eng (K).doc

http://www.adam-europe.eu/prj/4195/prj/curriculum%204th%20to%206th%20grade%20%20eng%20%28K%29.doc

W1

foodchain-DVD.mpg

http://www.adam-europe.eu/prj/4195/prj/foodchain-DVD.mpg

W2

KarstenPOWER.ppt

http://www.adam-europe.eu/prj/4195/prj/KarstenPOWER.ppt

W1

LEONARDO Minutes Århus april.doc

http://www.adam-europe.eu/prj/4195/prj/LEONARDO%20Minutes%20%C3%85rhus%20april.doc

W2

minutes WP1rettet.doc

http://www.adam-europe.eu/prj/4195/prj/minutes%20WP1rettet.doc

W1

Participants in the Initial trans.doc

http://www.adam-europe.eu/prj/4195/prj/Participants%20in%20the%20Initial%20trans.doc

W1

Products

1 Teaching with animation

2 'Animated Science' An Interactive guide for teachers on how to teach science and nature with

3 Animated Science

Product 'Teaching with animation'

Title:	Teaching with animation
Product Type:	DVD
Marketing Text:	"Teaching with Animation": An interactive guide for teachers on how to teach with animation. Find it also here: www.animwork.dk/twa.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	www.animwork.dk
Product Languages:	Dutch Danish Finnish Estonian French English

Product "Animated Science' An Interactive guide for teachers on how to teach science and nature with animation'

Title:	'Animated Science' An Interactive guide for teachers on how to teach science and nature with animation
Product Type:	DVD
Marketing Text:	Interactive guide for teachers on how to teach science and nature with animation
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	www.animatedscience.dk
Product Languages:	English

Product 'Animated Science'

Title:	Animated Science
Product Type:	website
Marketing Text:	Online Interactive guide for teachers on how to teach science and nature with animation
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	www.animatedscience.dk
Product Languages:	English

Events

Conference: "Animated Science"

Date	26.09.2010
Description	
Target audience	
Public	Closed event
Contact Information	
Time and place	October 2009, Denmark

Dvd Realease: "Teaching with Animation in Nature & Science"

Date	26.09.2010
Description	"Animated Science", Teaching with Animation. An interactive guide for teachers on how to teach with animation in nature and science.
Target audience	
Public	Closed event
Contact Information	
Time and place	September 2010

The Parsel Conference

Date	02.03.2009
Description	Presentation of the LLP LdV project Animated Science
Target audience	Science Teachers and Science researchers in Europe
Public	Closed event
Contact Information	
Time and place	Berlin, DE, 2009