



FAMT&L FORMATIVE ASSESSMENT IN MATHEMATICS FOR TEACHING AND LEARNING

Work Package 7 - Dissemination

Deliverable D7.3– Promotional materials

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Lead organisation for this deliverable: University of Cyprus

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This document outlines the promotional materials used for increasing FAMT&L' external awareness and disseminating of results, including: brochures, posters, and project presentations (provided in the language of each partner's country).					

Deliverable fact sheet

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Executive summary

This document will outline the project promotional materials that were used for promoting and disseminating FAMT&L results. Brochures and posters were designed and shared in different places (i.e conferences, universities etc.) in order to increase the awareness about the FAMT&L project and its actions. Project presentations were also conducted in order to share some of the project results

The FAMT&L (Formative Assessment in Mathematics for Teaching and Learning) project has been funded under the Lifelong Learning program. This publication reflects the views only of the author(s), and the Commission cannot be held responsible for any use that may be made of the information contained therein.

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About the document

In this document the project promotional materials are presented. In these materials brochures, posters and presentations are included, which are further described below.

1. Posters

A poster (Figure 1) was prepared which presented a summary of the projects' main objectives and steps in English. In the poster the project title and logo are included, as well as the logos of all the partners' universities. The logos regarding the type of the project and its funding are also found in the poster, together with the project website, in order the public to have access to further information about the project. Finally, in the poster the process of formative assessment is represented by a figure created by Luca Mantecchini, entitled "The cyclical planning and upward progress in the teaching-learning process".

The posters were exposed by all the partners in different places in the buildings of each University and in the buildings of the corresponding University Departments, in order to be visible to all people who visit the Universities and Departments in each country.

Regarding the University of Cyprus, the poster was also exposed in the "18th Cyprus Conference on Mathematics Education and Science" held on the 13th of February 2016 in Paphos (Cyprus), so as the participants of the Conference to become aware of the project.

Additional posters to the general poster of the project were used by the partners for promoting a part of the results of the project.

- The University of Cyprus presented a poster (Michael–Chrysanthou, P., Christodoulou, T. & Nicolaou, S. (2015). Formative assessment in the teaching and learning of mathematics) within the actions of the "Cypriot-French Summer School on Mathematics Education", held in Paris (France) between the 2nd and 10th of July 2015 (Figure 2).
- SUPSI set up posters permanently at SUPSI-DFA in May 2015, which
 were visible to all people who visit the department. These posters
 (Figure 3) synthetically describe the motivations and objectives of the
 research, analyzing the first phase results of the questionnaires
 administered to students and teachers in Ticino. In addition, in August
 2016 posters (Figure 4) were were set up permanently at SUPSI-DFA
 that synthetically describe the training model implemented with the
 teachers in training, stressing the role of the video within the formation.
- France, also, has prepared two posters for promoting the project (Figure 5) and the competition (Figure 6), in December 2015 and in May 2016, respectively.
- In addition, InHolland has prepared two posters for promoting the project (Figure 7) and the training course (Figure 8).

FORMATIVE ASSESSMENT IN MATHEMATICS FOR TEACHING AND LEARNING Purpose of the FAMT&L project To provide a methodological model and some valid materials for a quality proposal of mathematics teacher training in Europe. · To promote in-service training of mathematics teachers through the design and implementation of an online repository: an online resource for training activities addressed to mathematics teachers in the schools involved, and implementing each training teachers' national system. Main steps of FAMT&L project · Survey on the mathematics teachers' and students' beliefs and practices concerning formative assessment in Image created by Luca Mantecchini classroom. "The cyclical planning and upward progress in the teaching-learning · Designing and implementing a web repository for the mathematics teachers training about the proper use of formative assessment in teachinglearning situations. Scuola universitaria professionale University of Cyprus Department of Education Lifelong www.famt-l.eu Learning comenius Programme

Figure 1. The poster of the project

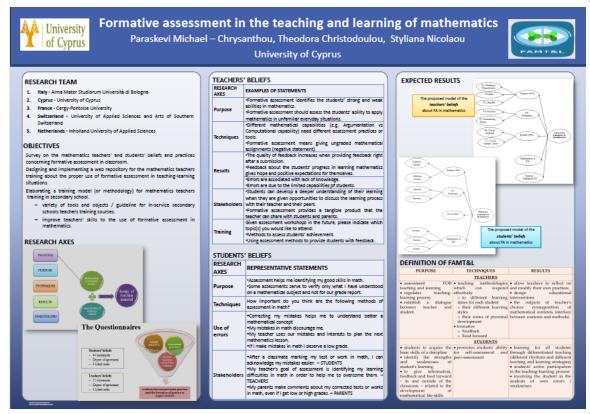


Figure 2. The UCY poster of the project results

SUPSI

Progetto europeo FAMT&L

La valutazione formativa nella didattica della matematica

Silvia Sbaragii, Elena Franchini, Miriam Salvisberg, Edo Dozio (consulente).

produzione
propetto FAMTEL (Formative accessment in
heriatica for teaching and learning naise dalla
aboratione tra clique partners europei Università
licitiggia produtatione del propetto, Università
gy-Portolae (Francia), Università intoland di
roze Applicate (Danda), Università intoland
più formazione alla propertionamentologia-produtento
a metimatica. A tale acopo il Canton Vicino si
sie della collatorazione degli integranti di due
tole partners per l'implementopione dei progetto
cola media di Artoti e finaverano).

objettvo del progetto è di migliorare le competenze gi inagneri sia sula planflorzione e velutazione sutrolone per l'apprendimento), da sulla dicetto da matematica. In particolare, far si che gi segnanti acquisiassano un atteggiamento che consiste

interpretar interpretar de control de completare :
- analizzare situazioni educative completare :
- analizzare situazioni educative completare :
- individuare i bisogni di apprendimento degli studenti concernenti la discipira matematica e le competenze traveverali intercompetenze, atrategie di apprendimento, mettodi di studio;
- tormutare lociesi e planificare strategie e tecniche per individuare il difficati e difficare individuare il difficare individuare il difficare individuare il vesitazione di mitire rimedi per un efficace apprendimento della matematica;
- utilizzare il vesitazione con uno scopo formativo, si fine di dare agli insegnanzia il possibilità di verificare, negganizzare e miglicorrer i listo metodi di consentire agli studenti di autorelutarali e diventure consequevoli dei propri processi di apprendimento.

analisi delle convinzioni degli studenti e degli negnanti relativamente alla vasutazione formativa e ue pratiche (somministrapione di un questionario) disposizione di un database di video e materiali

nazione di un modello di formazione (in ca e a distanza), al fine di migliorare in modo ablico le competenze di valutazione degli attri

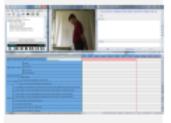
stato accoministrato a del docerdi di matematica e a bibli allevi della accosia media delle sedi di Cadenazzo, Gravesano, lafinazio, Antori e Locarno. L'ansilai ha permesao di evidenciare atcuni supetti interessanti, tra i quali sionio incongruence tra quanto dichiaratto dal docerdi e quanto poi messo in protica in sale ascondo gli allevi o riteruti importanti per iono. Di seguito sportiamo uno del gratto del Canton Ticino resistrata a partire del confronto tra futiliczo di sicuni atrumenti de parte del docerne e l'importanza attitutta diagli studenti:



domande si fiscontra l'importanza per gli allevi di un feedback continuo da parte dei docenti, che però appare limitato. In generale i docenti dichiarano di essere spet agli sipeti formittri della visitazione e sembrano averne ber inquadrati gli sapeti salienti, ma dalle incongruerze emente con quanto dichiamto degli silieri pare non il applicatione efficacemente in sula.

Discussione e conclusioni

tomativa, actisimendo quali protiche la colinoligioso. Al momento stiamo melitzando sicuni video nelle ciasal con l'obiettro di excherciare sicune protiche di valutazione formativa (autoestizazione, valutazione tra pari, intercolino con l'allevo, fedicato, "...). Activenno l'utilizzo di un software gratultamente acoritobile della rete (Anvil 5.1) avveno la possibilità di analizzane minuziosamente i video siturbando una grigia di indicatori messa a punto e condivisa dei vari pesel colorati.



La contratione di un web repository di video ha poi flobettivo di creane un distatase di situazioni che elidendino pratche di visitopolore transatre. Proprio a pertire da queste stiemo elaborando un modello di formazione che colinvolge l'utilizzo di una piertaforma onine con un approccio immonettivo.

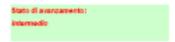


Sono incitte state proposte due varianti del modello per venire incortro maggiormente site esigence di dissouro peese partiens: uno completamente a distenza e uno che prevede anche momenti di confronto in presenza. Si prevede che il corso pilota rivolto a docenti di matematica della scuola media si realizzi nell'anno

erl in Abbellin, 11 (1), 4545. In C. (2022) Belly Bluellar and Inservice High Bulson Malternative Teacher Growth. Malternative Education Library.

Victors 27. II. Vers on Engineerent de la phingoge de la malifer : processa de régulation interactive, rétroutive et prosi-le III. Maleman (16.1), Assaw à rétroute des apprentissages austrées 7 Les propositions de la phingogie de malifer (pp. 86-105), Herchitelle Cedentes et d'Orienté. Rola Prince, M.A. & Pullo, M.E. (2005), Internat Permative Assessment of Studente. Gindentending of Studente (Indentending)

Figure 3. The SUPSI poster of the project results



SUPSI

Progetto europeo FAMT&L

La valutazione formativa nella didattica della matematica

Silvia Sbaragii, Elena Franchini, Miriam Salvisberg, Edo Dozio (consulente)

Introduzzione Il projetto FANTIEL (Formative assessment in mathematica for resching and Hamiligi nasce dalla collaboratione tra cinque partire europei Univenzità di Rologna (poordinatore del projetto), Università Cergy-Portissia (Fancale, Università Impliant di Sideriza Applicate (Dianda), Università di Opro e SUPSIDDipattimento Formatione e Apprendimento con lo acopo di visiotzane il noto della valutazione formationi proposso di la programma propossorii pro-

o acopo di vaccione il noci della vaccione firmativa ne prosesso di inaegnamento/apprendimento della matematica. A tale acopo il Canton Ticino si avvale della collatorazione degli inaegnardi di due acuole pattivore per l'implemento/acono del progetto (acuola media di Ambri e Gravesano) e del acotagno

Oblettivi della ricerca

Objettivi della ricerca Favorire una comitto della veluborione formativa (valutazione per fragmendimento) in didetica della matematica, al fine di incompgiare il penalesi rifesalvo e ortico dei diocerdi su stranggi di velutazione efficaci, in particolare, una delle principali finalità della nocesa è la melitzzatione di una formatione per il docerdi di matematica di sociali media sulla velutazione formativa fossitzzata sull'arvalsa di finati relativa a momenti di velutazione formationi resistrati in sulla. Il video. valutazione formativa medizzati in aula. I video, realizzati dia vari paesi con le acuale partine; constituiazano il fuliro del modello di tormazione proposto e aono reccolti in una piataforma virtuale (web repository) appositamente studiata per archiviare filmad e documenti di ogni paese.

Descrizione
il projeto della durata di tre anni (doembre 2015 –
novembre 2016), si arluppa in divena fissi. Quella su cui di siamo concentrati in questo periodo prevede:

- eleborazione di un modello di formazione (in presenza e a distanza);
 anchiviszione dei video nel velo repository;
- implementazione dei modello di formazione; bilancio della formazione.

Cissoun peese da realizzando un corso di formazione plotos, seguendo alcune linee guida comuni suggente dal gruppo seltzero, che prevedono la somministrazione di un questionario incrisie e finale comministrazione di un questionario incrisie e finale degli eventuali cambi di construtore da parte degli inegranti, la realizzazione di una messa in comune finale dove al rissaumono i punti chieve sulla valutazione formativa emensi durante il como.

abilitante per l'insegnamento alla scuola media. Si è tratata di 2 incontri di 4 ore ciascuno malizzati in presenza con l'atticzo del web repository. L'uso del video era finalizzato aci analizzane le pratiche.

di docenti relative a momenti di valutazione formativa e a rifettere in modo critico sulle proprie azioni in dissas, atimolando la discussione tra ricercatori e docenti. amonanco el ciacusariore en noviration e coolen. Diversi studi exidenziano relitoria dell'utilizzo dei video nella formazione degli inaggianti giarragera, Zamoni è Siguer, 2007), come ad exempio ia metodologia Leason Situdy, dove gli inaggianti analizzano sistematicamente una leptone, nomendo alle terrolice di regliatrazione auziloriava.



La costrigione di un web repository di video ha l'obiettivo di creare un database di situazioni che evideognio pratche di valutazione formativa, utile sia agli insegnanti come forte di apunti, che al riccoratori come piattatorna da cui attingere i veri video per la

video nelizzati nelle sousie partner che minivano a costinire concaserze, competenze e gesti professionali sulla valizzacione formatine, e a rifettere in modo specifico sulle misconsprioni e sugli errori

- in particolare le attività proposte prevedevano:
- -domande general riguardo all'individuazione di moment di valutazione formativa (quali e perché) permettendo una prima riflessione e discussione aul
- -fanalisi delle sequerge video aselle utilizzando gli indicatori presenti nella griglia elaborata dai ricercatori e usata per indicizzane i video, permetendo urricaservacione più dettagliara delle antioni degli insegnanti e degli allievi in relazione ad una situazione di velutazione formativa;
- domande-stimolo volte alla rifleggione quile proprie



roortri, vi sia stata una completa soddisfazione sia Iguardo al contenuti proposti che all'interazione



Dale risposte emerge che tutti i docenti sono consuperoi dei agrificato di valutazione trimates, in perticolare dell'idea di valutazione come momento in cui allieno e docente si rendono contro dei punto in cui ci al trove nei percorso di apprendimento; una duplica di al trove nel percono di apprendimento, sine displice utilità per il discente registre e differenziare il programmacione in base ani informazioni noseste e per frailivo prendere concienza di obiche ha appreso oppure no diussi tutti locoreti hamo perticolamiente appreciato ferticacio della visione di video che mostanno esampi di visitazione formativa. Lo strebo legame con la mestiti disula permete di frosticzare-megio quello che rittoviamo nella teoria sulla visitazione formativa.

cinque pessi il gruppo svizzero redigerti la proposta di alcuni modeli di tomazione e resizzerà una guida per tomatori coni le principali linee da seguire per propone un conso su questo terra.

Svis Stanogil, professore SUPSI di dilatitica del elera Sandira@aqui.ch Wriam Sandira@aqui.ch

Figure 4. The SUPSI poster of the training model

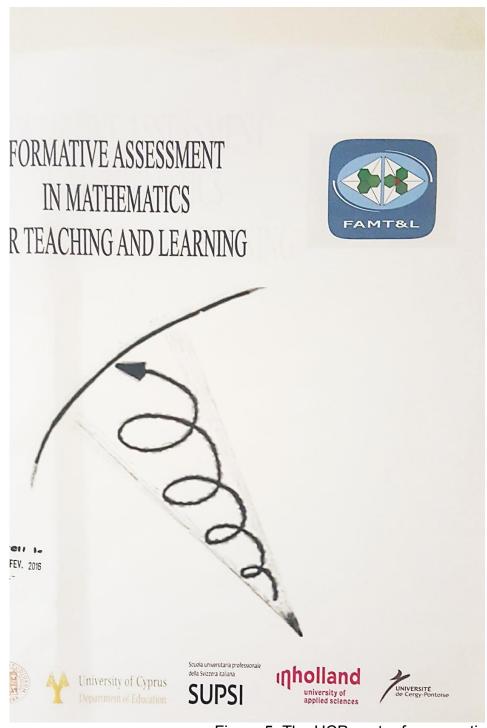


Figure 5. The UCP poster for promoting the project

FAMT&L COMPETITION

La competition lancée par le projet FAMT&L vise à mettre en valeur la créativité des professeurs de mathématiques, en les encourageant à utiliser les mathématiques comme un mode d'expression innovateur à travers l'évaluation formative. L'objectif de cette competition est d'accroître les aspirations des professeurs de mathématiques et de stimiler leurs intérêts pour la mise en oeuvre de l'évaluation formative, ses techniques ainsi que ses pratiques. La realisation de cet objectif se fera à travers la création de situations courtes filmées en classe.

Les participants peuvent être des professeurs du secondaire venant d'établissements publics et/ou privés. Chaque participant représentera son établissement.

Le résultat reherché est une video courte (5 minutes) d'un enseignant (et des élèves) représentant une des situations suivantes :

- Montrant une situation décrivant l'évaluation formative (en utilisant tous lees moyens possibles (verbaux, images, diagrammes et autres representations...)
- Proposant et décrivant une technique spécifique de l'évaluation formative qui est utilisée
- Présentant une video courte (de mise en oeuvre de l'évaluation formative en classe, dans laquelle une technique sécifique est utilisée)

Prix proposés:

Premier prix : 500 € et un certificat de réussite
 Second prix : 300 € et un certificat de réussite

Les recompenses seront offertes sous forme de matériels qui pourront être utiles à l'établissement du vainqueur (ordinateur, tablette, TBI...)

DATES A RETENIR

Premier appel à la compétition	25 avril 2016
Second appel à la competition	16 Mai, 2016
	15 Juillet 2016
Notification de selection des 2 candidats par	16 Septembre 2016
pays	
Notification aux finalistes	30 Septembre 2016
Lancement de la competition (à Bologna, Italie)	Decembre 2016

Vous trouverez de plus amples informations concernant le concours à l'adresse suivante (adresse du site web du projet): http://www.famt-l.eu/competition/



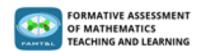




Figure 6. The UCP poster for promoting the competition



Figure 7. The InHolland poster for promoting the project



Figure 8. The InHolland poster for promoting the training course

At the end of the project a poster was prepared for promoting the final conference held in Bologna, Italy on the 25th of November 2016 (Figure 9). In the poster the purpose of the final conference was described and the agenda of the conference was provided.

The poster was distributed by all partners to different destinations.

For example, in Cyprus the poster was sent via email to all the academic staff and the students of the Department of Education. The poster was also placed in different buildings in the University of Cyprus, in order to be accessible by the students and the academic staff from all the departments. The poster was also published by the Cyprus Mathematical Society's website (http://www.cms.org.cy/).

In Italy, the flyer (Figure 10) was sent via email to all the academic staff and students of Department of Education and Department of Mathematics; it was also sent via mail to all partner schools and to a lot of math teachers in Italy. The poster was disseminated also by some core of research in Mathematics Education, by Rete Witec, European Association for Women in Science, by the INDIRE (National Institute for Documentation, Innovation and Educational Research) and by the INVALSI, National Institute for the Educational Evaluation of Instruction and Training). The poster was also placed in different buildings in the University of Bologna, in order to be accessible by the students and the academic staff from all the departments. The poster was also published in the University of Education website (http://www.edu.unibo.it/it/ risorse/files/programmaconvegno-famtl/at download/ file/Volantino-Conv-251116.pdf) and in the FAMT&L website (http://www.famt-l.eu). Both flyer and poster are in Italian language and English language.

In Switzerland the poster was sent via email to all the academic staff, the students of the Department of Teaching and Learning, all teachers in schools in Ticino.

In Netherlands the poster of the final conference was put on bulletin board in University for the academic staff and the students and it was also placed in newsletter for colleagues and students. In addition, the poster was sent via mail in different networks regarding the beta-partners and the associated schools.

The poster was also shared in the Facebook page of the project (https://web.facebook.com/Famtl-Formative-Assessment-in-Mathematics-for-Teaching-and-Learning-508441582670725/?fref=ts).

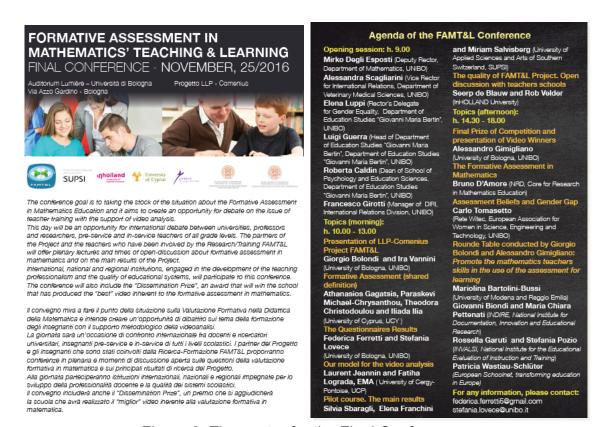


Figure 9. The poster for the Final Conference

FORMATIVE ASSESSMENT IN MATHEMATICS' TEACHING & LEARNING

FINAL CONFERENCE - NOVEMBER, 25/2016

Auditorium Lumière – Università di Bologna Via Azzo Gardino - Bologna

Progetto LLP - Comenius















The Conference

The conference goal is to taking the stock of the situation about the Formative Assessment in Mathematics Education and it aims to create an opportunity for debate on the issue of teacher training with the support of video analysis.

This day will be an opportunity for international debate between universities, professors and researchers, pre-service and inservice teachers of all grade levels. The partners of the Project and the teachers who have been involved by the Research/ Training FAMTSL will offer plenary lectures and times of opendiscussion about formative assessment in mathematics and on the main results of the Project.

International, national and regional institutions, engaged in the development of the teaching professionalism and the quality of educational systems, will participate to this conference.

The conference also includes the "Dissemination Prine", an award that will be won by the school that has produced the "best" video on the formative assessment in Mathematics.

Il convegno mire e fere il punto delle situazione sulle Valutazione Formativa nella Didattica della Matematica e intende creare un'apportunità di dibattito sul tema della formazione degli insegnanti con il supporto metodologico della videoanalisi. Le giornate sarè un'occasione di confronto internazionale fra docenti e ricercatori universitari, insegnanti pre-service e inservice di tutti i livelii scolastici. I partner del Progetto e gli insegnanti che sono stati colovolti dalla Ricarca-Formazione FAMTSL, proporranno conferenze in plenaria e momenti di discussione aperta sulle questioni delle valutazione formativa in matematica e sui principali risultati di ricerca dei Progetto. Alle giornete perteciperanno istituzioni internezionali, nezioneli e regionali impegnate per lo sviluppo della professionalità docente e la qualità dei sistemi scolastici.

Il convegno includerà anche il "Dissemination Prize", un premio che si aggiudicherè la scuola che avrè realizzato il "miglior" video inerente alla valutazione formativa in matematica.

Agenda

Minko Degli Esposii (Deputy Resor, Department of Mathematics, UNIRC) Alexandria Scagliadul (Nos Pacter le: Interactical Pateriors, Department of Vet Name of Statemen, UMBSO Statement of Statemen, Experiment of Valencey Name of Statemen, UMBSO Statement of Statemen, UMBSO Statement of Statement of

Transport of the design of Education (Education Studies "Document Marie Sector", Department of Education Studies "Ottoward Marie Berto", UnitEd; Roberta Califfre Channel Studies of Prephilogy and Education Sciences, Department of Education Studies "Ottoward Nation Sector", UnitEd; Francosco - Glootis Manager of DPC, International Potentials Channel (1988).

TOPICS (MORNING): H 10.00 - 13.

Presentation of LLP-Comenius Project FAMTAL Glorgio Bolondi and ire Vennini Striventy of Baugna, UNBC)

Formative Assessment (shared definition)
Attenues Gagateis, Paraskavi Michael-Chrys authou, Theodora Christodoulou and
Enda like Anwesty of Opena, UCY)

The Guestionnaires Results

Federica Ferretti and Stefania Lorece (University of Bologina, UNEX)

Our model for the video analysis Leavest Jesusia and Faths Legisla, SMA (messiy of Copy-Purates, UCP)

Pilot course. The main results Silvis Steragit, Elens Freschini and Ministra Salvisburg Amerity of Applied Sciences and Ara of Southern Switzenson, SuPRI)

The quality of FAWT&L Project. Open discussion with teachers schools Seep de Blauw and Rob Wilder(#400,040) timeway

TOPICS (AFTERNOON): H 14,30-18,00

Rnal Prize of Competition and presentation of Video Winners

Nessendro Génigliano (Investy of Brogre, UMBC) The Formative Assessment in Mathematics

Brazes D'Amores (MRC, Core for Research in Mathematics Education) Assessment Districts and General Egyp Coats Tomassetto Pare Milos, European Assessment in Mathematic Robinson, Brazesettop and Technology, UMBIC)

Rounds Table-conducted by Giorgio Bolondi and Alexandro Gimigliano: Procedo the mathematics banders stiffs in the use of the assessment for leaning Markdine Bartolini-Basel (America) of Maximus and Paggle Smite Giorgesi Borell and Marie Chiana Perfectable.

and Stateme Posto Institute for the Soundaries Evaluation of Institution and Training a SoldSter European Schoolms, transferring education in Sursy

FOR ANY INFORMATION, PLEASE CONTACT:

Figure 10. The Italian flyer for the Final Conference

2. Flyers

2.1 For promoting the project actions

A flyer in English (Figure 11) was prepared for promoting the projects aims and actions. Emphasis was given on promoting our teachers' training program, by describing our main methodology and stressing the use of videos. In particular, the flyer included a short description of the purpose of the FAMT&L project, the main steps of FAMT&L project and brief information about our teacher training program. The cover of the flyer included the project's title and logo and the figure created by Luca Mantecchini, showing "The cyclical planning and upward progress in the teaching-learning process". In the back cover of the flyer the logos of all the partners' universities are found, with the logos regarding the type of the project and its funding and the project website, in order the public to have access to further information about the project.

The flyers were distributed by all the partners in the buildings of each University and in the buildings of the corresponding University Departments, in order to be available to all people who visit the Universities and Departments in each country.

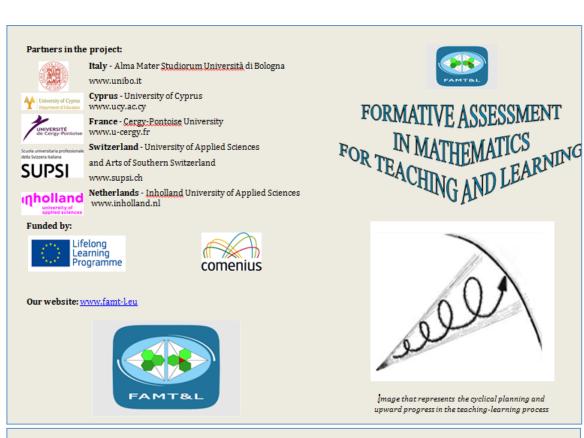
Regarding the University of Cyprus, the flyers were also distributed to the participants of the "18th Cyprus Conference on Mathematics Education and Science" held on the 13th of February 2016 in Paphos (Cyprus).

In addition, the flyers were distributed from the UNIBO University to the participants of the EAPRIL 2015 Conference (European Association for Practitioner Research on Improving Learning – Conference), held in Belval, Luxembourg between the 24-27 of November 2015.

Furthermore, SUPSI University used flyers for Secondary School teachers since January 2016, entitled "Encourage the assessment. Formative observation in mathematics through the video support" (Figure 12). Flyers were sent for SUPSI also for promoting the Mathematical teacher training entitled "Guidelines for mathematical teacher training on the promotion and proper use of formative assessment in mathematics" (Figure 13).

Netherlands has also prepared a flyer (Figure 14) for promoting the program about the training course.

In addition, UCP has prepared a flyer in order to promote the competition (Figure 15). This flyer was distributed in May 2016.



Our teacher-training program

The aim of our teacher-training program will be to foster among teachers a proper use of formative assessment (assessment for learning) in mathematics education.

External grounding of the pilot training courses in the associated schools is at the heart of the external justification of the project.

The method adopted for the courses uses the analysis of video sequences recorded in class and support the same video in the training program.

The pilot training courses – together with the training model that has been defined – will be applied in different schools.

Each course will be implemented by each partner of the consortium in collaboration with national associated partner schools.

In these training courses special emphasis will be given in the use of videos, through video-analysis with the participants.

Purpose of the FAMT&L project

The Project aims to provide a methodological model and some valid materials for a quality proposal of mathematics teacher training in Europe, starting from an in-depth analysis of training teachers' needs and on-going experiences in the different partner countries.

Subsequently, the project aims to promote in-service training of mathematics teachers through the design and implementation of an online repository: an innovative product that will be used, in the future, as online resource for training activities addressed to mathematics teachers in the schools involved, and implementing each training teachers' national system.

Main steps of FAMT&L project

- Survey on the mathematics teachers' and students' beliefs and practices concerning formative assessment in classroom.
- Designing and implementing a web repository for the mathematics teachers training about the proper use of formative assessment in teaching-learning situations.
- Elaborating a training model for mathematics teachers training in secondary school:
 - characterized by a variety of tools and objects / guideline for inservice secondary schools teachers training courses.
 - aimed at improving teachers' skills to the use of formative assessment in mathematics.

Figure 11. Flyer for promoting the projects' aims and actions (in English)



Figure 12. SUPSI University flyer: "Encourage the assessment. Formative observation in mathematics through the video support"

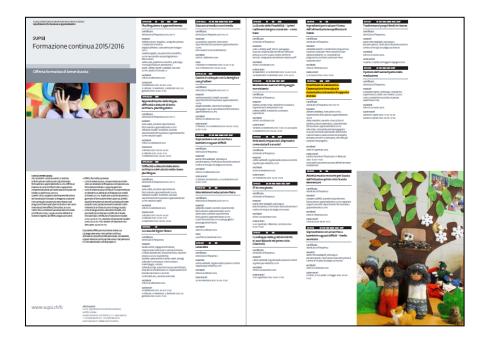




Figure 13. SUPSI University flyer: "Guidelines for mathematical teacher training on the promotion and proper use of formative assessment in mathematics"



Figure 14. InHolland University flyer about the training program

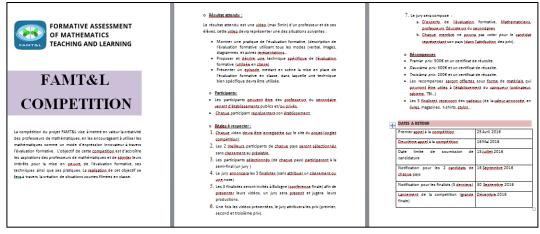


Figure 15. The UCP flyer for promoting the competition

2.2 For promoting the training model

Leaflets were also prepared for promoting the training program designed in the different countries.

In Holland the flyers for promoting the training model were distributed in the seminars described in the following table.

DESTINATION	DESCRIPTION	DATE
Bootcamp	A conference with 1600 teachers. In the	March 31,
	programme were a lot of workshops with	2015
	different content.	
Bruggen bouwen naar het	A conference about research and	June 20,
onderwijs van de toekomst	developments in education.	2016
Formatief assessment in	Workshop/in service training for 30	September
de les	teachers in formative assessment	15, 2016
Grenze(n)loze wiskunde	Conference for researches, teachers in	November
	education of mathematics. Theme of this	4, 2016
	conference this year is Borderless	
	Mathematics.	
Voor en door docenten.	In a project leerling2020 several schools	November
Morgen gaan we	participate in a learning environment to	10, 2016
differentieren	change their education. The project is	
	subsidized by the ministry of Education.	

In Italy the flyers (Figure 16) for promoting the training model were distributed in the Conference of European Association for Practitioner Research on Improving Learning –in Belval, Luxembourg (24-27 Nov 2015) and in the Launch Seminar of Italian Pilot Course (23 April 2016). This course is a university professional development course and the flyer was sent via email to all the academic staff and students of Department of Education and Department of Mathematics; it was also sent via mail to all partner schools and to a lot of math teachers in Italy.

In Swiss the flyers reached Secondary School teachers, to whom they were sent in January 2016 (Figure 13 above).

In Cyprus, a leaflet was prepared in Greek (see below, Figure 17) for calling the secondary mathematics teachers all over Cyprus to participate in the training program. The leaflet was send by email to all secondary schools in Cyprus and was also distributed in handouts in some of these schools. The leaflet included the description of the purpose and actions of the FAMT&L project and the aims and methodology in general of the training program. Next, a detailed description of all the steps of the Cypriot training model was provided, so as the participants to have a complete idea of the organization of the training program. The leaflet includes also the dates of the program,

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conduct information for applications and the logos of the program and all the partners' Universities.

For further promotion of the program, the leaflet was also published by the Cyprus Mathematical Society's website (http://www.cms.org.cy/assets/files/2015-2016/Programma-katartisis-ekpaideftikon.pdf).



Figure 16. The UNIBO flyer for promoting the training model



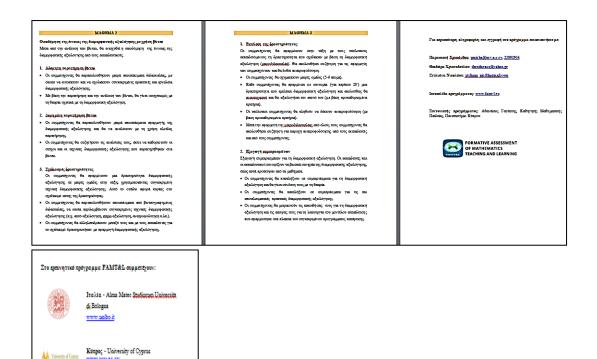


Figure 17. The UCY leaflet for promoting the training model

2.3 For promoting the FAMT&L Competition

Eaßerta - University of Applied Sciences and Arts of Southern Switzerland

www.supsi.ch

Ohlavěta - Inholland University of Applied Sciences
www.inholland.al

SUPSI

A flyer was prepared for promoting the FAMT&L Competition (Figure 18). The flyer was prepared at first in English and was then translated to each partners' language, such as in Greek (Figure 19) and in French (Figure 20). Italy didn't translate the flyer in Italian language, but the Italian partners communicated to schools and teachers through the website http://www.famt-l.eu/famtl-competition/ where they could read the information to participate. The flyer includes a description of the aims of the competition and the regulations about the participants, the product, the prizes and the important dates. In the flyer there is a citation to the projects' website and in particular to the page created for the competition (http://www.famt-l.eu/competition/), in order to access more information about the regulations and important dates. The flyer was send by all the partners (be e-mail or hard-copies) to all the secondary schools, in order to reach the secondary mathematics teachers.

FAMT&L COMPETITION

The FAMT&L competition aims to enhance the creativity of math teachers by encouraging them to use mathematics in an innovative way of expression and communication through Formative Assessment. By creating small situations of Formative Assessment in mathematics classrooms, the objective of the FAMT&L competition is to raise math teachers' aspiration and stimulate their interest towards the implementation of Formative Assessment techniques and practices.

The **participants** could be secondary education math teachers from public and private schools. Each participant will be representing his/her school.

The **product** should be a short video (max 12 minutes) of a teacher (and students), presenting one of the following situations:

- providing a definition/ a description of Formative Assessment with any means (i.e verbally, using pictures, diagrams or other representations, with movements e.t.c)
- proposing and describing a specific Formative Assessment technique to be used in mathematics teaching
- presenting a short episode of the implementing Formative Assessment in classroom, in which a particular technique is used.

Prizes

- First Prize: 500€ and certificate of success.
- Second Prize: 300€ and certificate of success.
- Third Prize: 200€ and certificate of success.

The prizes will be given as equipment and material to be used in the winners' schools (such as computers, tablets, interactive white boards e.t.c).

First call of the competition Second call of the competition Second call of the competition Submission deadline Notification to 2 selected participants from each country Notification to finalists Submission deadline 30th October, 2016 30th October, 2016 Launch of the competition (in Bologna, Italy) 25th November, 2016

More information about the regulations and important dates can be found at our projects' website: http://www.famt-l.eu/competition/



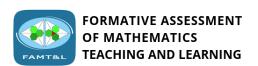




Figure 18. The flyer of the competition

ΑΙΑΓΩΝΙΣΜΟΣ FAMT&L

Ο διαγωνισμός FAMT&L έχει στόχο να ενισχόσει τη δημιουργικότητα των εκπαιδευτικών των Μαθηματικών, ενθαρρύνοντας τους να χρησιμοποιούν τα μαθηματικά με ένα καινοτόμο τρόπο έκφρασης και επικοινωνίας μέσω της Διαμορφωτικής Αξιολόγησης. Δημιουργώντας συνθήκες Διαμορφωτικής Αξιολόγησης σε τάξεις των μαθηματικών, ο στόχος του διαγωνισμού FAMT&L είναι να ενισχόσει τις φιλοδοξίες των εκπαιδευτικών των μαθηματικών και να παρακανήσει το ενδιαφέρον τους σχετικά με την εφαρμογή των τεχνικών και των πρακτικών της Διαμορφωτικής αξιολόγησης.

Οι συμμετέχοντες χρειάζεται να είναι εκπαιδευτικοί μαθηματικών δευτεροβάθμιας εκπαίδευσης από δημόσια και ιδιωτικά σχολεία. Κάθε συμμετέχοντας θα εκπροσωπήσει το σχολείο του.

Οι συμμετέχοντες εκπαιδευτικοί (και οι μαθητές τους) θα πρέπει να φτιάξουν ένα σύντομο βίντεο (διάρκειας μέγρι 5 λεπτά), παρουσιάζοντας μία από τις ακόλουθες καταστάσεις:

- παρέχοντας έναν ορισμό/περιγραφή της Διαμορφωτικής Αξιολόγησης με οποιοδήποτε μέσο (π.χ. προφορικά, χρησιμοποιώντας εικόνες, διαγράμματα ή άλλες παραστάσεις, με κινήσεις, κ.ά.)
- προτείνοντας μια συγκεκριμένη τεχνική Διαμορφωτικής Αξιολόγησης για τη διδασκαλία των μαθηματικών
- παρουσιάζοντας ένα σύντομο επεισόδιο εφαρμογής της Διαμορφωτικής Αξιολόγησης στην τάξη, στο οποίο χρησιμοποιείται μια συγκεκριμένη τεχνική.

Βραβεία

- Πρώτο Βραβείο: 500€ και πιστοποιητικό επιτυχίας
- Δεύτερο Βραβείο: 300€ και πιστοποιητικό επτυχίας

Τρίτο Βραβείο: 200€ και πιστοποιητικό επιτυχίας.

Τα βραβεία θα δοθούν υπό μορφή εξοπλισμού και υλικών που θα χρησιμοποιηθούν στα σχολεία των νικητών (π.χ. ηλεκτρονικοί υπολογιστές, ταμπλέτες, διαδραστικός πίνακας κ.τ.λ.).

Για περισσότερες πληροφορίες σχετικά με τους κανονισμούς του διαγανισμού μπορείτε να επισκεφτείτε την ιστοσελίδα του ερευνητικού προγράμματος FAMT&L (http://www.famt-l.eu/competition-ucy/) και να επικοινανήσετε στα pmicha@ucy.ac.cy και theodoraco@yahoo.gr.

ΣΗΜΑΝΤΙΚΈΣ ΗΜΕΡΟΜΗΝΙΈΣ	
Πρώτη ανακοίνωση του διαγωνισμού	25 Απριλίου, 2016
Δεύτερη ανακοίνωση του διαγαντσμού	16 Matou , 2016
Προθεσμία υποβολής συμμετοχών	15 Iouktou, 2016
Γνωστοποίηση αποτελεσμάτων στους 2 συμμετέχοντες	16 Σεπτεμβρίου, 2016
από κάθε χώρα για την πρόκριση τους στον ημιτελικό	
γύρο.	
Γνωστοποίηση αποτελεσμάτων στους 3 συμμετέχοντες	30 Σεπτεμβρίου, 2016
που θα επιλεγούν για τον τελικό γύρο.	
Τελικός γύρος (Μπολόνια, Ιταλία)	25 Νοεμβρίου, 2016



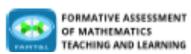




Figure 19. The Cypriot flyer of the competition

FAMT&L COMPETITION

La competition lancée par le projet FAMT&L vise à mettre en valeur la créativité des professeurs de mathématiques, en les encourageant à utiliser les mathématiques comme un mode d'expression innovateur à travers l'évaluation formative. L'objectif de cette competition est d'accroître les aspirations des professeurs de mathématiques et de stimiler leurs intérêts pour la mise en oeuvre de l'évaluation formative, ses techniques ainsi que ses pratiques. La realisation de cet objectif se fera à travers la création de situations courtes filmées en classe.

Les participants peuvent être des professeurs du secondaire venant d'établissements publics et/ou privés. Chaque participant représentera son établissement.

Le résultat reherché est une video courte (5 minutes) d'un enseignant (et des élèves) représentant une des situations suivantes :

- Montrant une situation décrivant l'évaluation formative (en utilisant tous lees moyens possibles (verbaux, images, diagrammes et autres representations...)
- Proposant et décrivant une technique spécifique de l'évaluation formative qui est utilisée
- Présentant une video courte (de mise en oeuvre de l'évaluation formative en classe, dans laquelle une technique sécifique est utilisée)

Prix proposés:

- Premier prix : 500 € et un certificat de réussite
- Second prix: 300 € et un certificat de réussite

Les recompenses seront offertes sous forme de matériels qui pourront être utiles à l'établissement du vainqueur (ordinateur, tablette, TBl...)

DATES A RETENIR

Premier appel à la compétition	25 avril 2016
Second appel à la competition	16 Mai, 2016
Date limite de soumission de candidature	15 Juillet 2016
Notification de selection des 2 candidats par	16 Septembre 2016
pays	
Notification aux finalistes	30 Septembre 2016
Lancement de la competition (à Bologna,	Decembre 2016
Italie)	

Vous trouverez de plus amples informations concernant le concours à l'adresse suivante (adresse du site web du projet): http://www.famt-leu/competition/



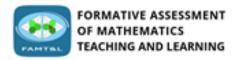




Figure 20. The French flyer of the competition

3. Website

All partners kept the website updated with different material (related announcements/ news/ publications/ actions e.tc).

The homepage of the web site includes news and important events related to the project (Figure 21). For example announcements can be found related to the project pilot courses, the project meetings with the partners, the FAMT&L competition etc.

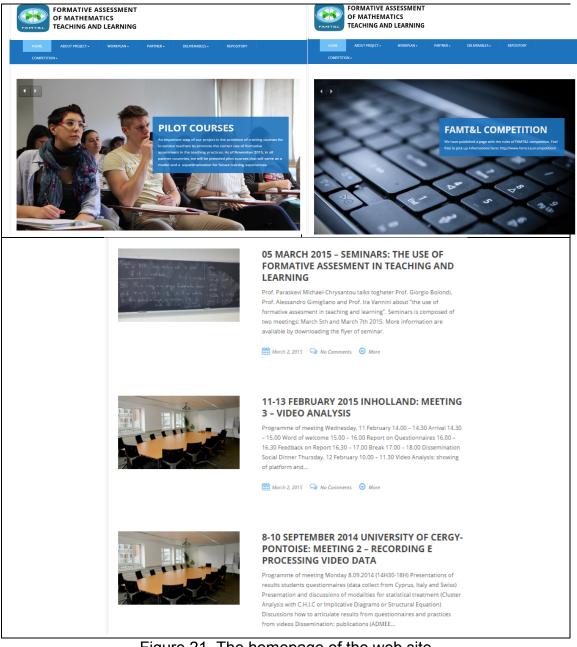


Figure 21. The homepage of the web site

For each announcement, the user has the option to click on it and have access to additional information. Furthermore, the users have the possibility to interact with all the partners and the rest of the users, as they have the possibility to leave a reply in relation to the announcement they read (Figure 22).

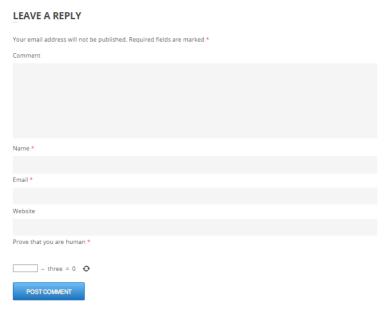


Figure 22. The "Leave a reply" field

The "Deliverables" page (http://www.famt-l.eu/deliverables/) provides information of the Deliverables of each work package of the project. In this page users can have assesses to a list of publications relevant to the actions and results of the project (http://www.famt-l.eu/publications/) In addition, in the website a page about the Competition (http://www.famt-l.eu/competition/) which is included in the Dissemination actions of the project is available. Each project partner has its own page with regulations and submission form, in the corresponding language.

4. Project presentations / seminars

Partners should try to organize a small seminar or presentations for presenting the actions and some basic results of the project and for promoting its pilot training course.

For example, In Italy two seminars (Figure 23) were organized from the Department of Education Studies in Bologna, on the 5th and 7th of March 201. The seminars were given by a FAMT&L researcher from UCY (Paraskevi Michael-Chrysanthou) and were about "The use of formative assessment in teaching and learning".



Figure 23. Invitation to the seminars in Bologna

In Cyprus, the basic results of the project and the structure of the pilot training course were presented in during a symposium within the action of the 18th LLP Comenius FAMT&L: 538971-LLP-1-2013-1-IT-COMENIUS-CMP Deliverable 7.3

Cyprus Conference on Mathematics Education and Science (Paphos, Cyprus – 13/2/2016). A 2 hours talk entitled "Formative Assessment in the Teaching and Learning of Mathematics" (Figure 24) was given in Greek about the aim and the actions of the project. However, the main purpose of the talk was for promoting our training model and invite teachers to participate.

18° ΠΑΓΚΥΠΡΙΟ ΣΥΝΕΔΡΙΟ ΜΑΘΗΜΑΤΙΚΗΣ ΠΑΙΔΕΙΑΣ ΚΑΙ ΕΠΙΣΤΗΜΗΣ 11 - 14 Φεβρουαρίου 2016

ΔΙΑΜΟΡΦΩΤΙΚΉ ΑΞΙΟΛΟΓΉΣΗ ΣΤΗ ΔΙΔΑΣΚΑΛΙΑ ΚΑΙ ΜΑΘΉΣΗ ΤΩΝ ΜΑΘΗΜΑΤΙΚΩΝ

Αθανάσιος Γαγάτσης Παρασκευή Χρυσάνθου Θεοδώρα Χριστοδούλου









Figure 24. Symposium in Cyprus: "Formative Assessment in the Teaching and Learning of Mathematics"

The following table (Table 1) presents all the project presentations organized by the partners of the project.

Table 1.

The partners' project presentations

PARTNER	TITLE	DESCRIPTION	PLACE	DATE
UNIBO	Meeting with	Meeting with Associated	Department	26
	Associated	Partners to present the	of	January
	Partners	action of the project	Education	2015
			Studies,	
			Bologna	
UNIBO	Training	Session of training with	Department	April
		teachers involved in the	of	2015
		project	Education	

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Deliverable 7.3

			Studies, Bologna	
UNIBO	Seminars with a FAMT&L researcher (Paraskevi Michael- Chrysanthou)	The use of formative assessment in teaching and learning	Department of Education Studies, Bologna	5 and 7 March 2015
UNIBO	Meetings in school	Meeting to present results of data analysis	Junior High School "Istituto Comprensiv o Gasparini"- Novi di Modena (MO)	6 Mar 2015
UNIBO	Presentation Pilot Course	Seminar for the presentation of Italian Pilot Course	Department of Education Studies, Bologna	23 April 2016
UNIBO	Presentation of research's results	Interviewing and discussing with students about formative assessment in the school	FUTURA San Pietro in Casale (BO)	4 April 2016
UNIBO	Presentation Pilot Course	Seminar for the presentation of Italian Pilot Course		23 April 2016
SUPSI	"FAMT&L - Formative assessment in mathematics education."	Description of the training model at the department with teachers in training to Master for teaching the middle school.	SUPSI-DFA	Septemb er 2015
SUPSI	"FAMT&L - Formative assessment in mathematics education."	Teachers and students questionnaires: analysis and comments.	Department of Education, Culture and Sports (DECS)	March20 14

UCY	"FAMT&L - Formative assessment in mathematics education." Towards a Comprehensiv e Meaning for Formative Assessment: The Case of	Description of the project, its objectives and major milestones The seminar was held within the actions of the UNICA 2016.	Department of Education, Culture and Sports (DECS) Rome, Italy	January 2014 15-16 Decembe r 2016
UCY	Mathematics Formative Assessment in the Teaching and Learning of Mathematics.	 The seminar was held within the actions of the 18th Cyprus Conference on Mathematics Education and Science. A 2 hours talk about the aim and the actions of the project was held. The purpose was for promoting our training model and invite teachers to participate. 	Paphos, Cyprus	13/2/201
UCY	Formative assessment in the teaching and learning (In Greek)	Presentation of basic aspects of formative assessment in teaching and learning – theory, practices, examples.	Partner school OLYMPION	Septemb er 2015
UCY	Formative assessment in the teaching and learning (In Greek)	Description of the project aims and actions. Presentation of basic aspects of formative assessment in teaching and learning.	Partner school OLYMPION	June 2015
UCY	Formative assessment in the teaching	Teachers and students questionnaires: analysis and comments.	Partner school OLYMPION	June 2015

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		Lafa and a disa	T	I
	and learning of mathematics	Informing the mathematics teachers		
	(In Greek)	about the aims of the use		
		of video in the project.		
INHOLLAN	Bootcamp	A conference with 1600	Haarlem	March
D		teachers. In the		31, 2015
		programme were a lot of workshops with different		
		content.		
		Here a workshop was		
		given about FA referring		
		to FAMTL-project		
INHOLLAN D	Bruggen bouwen naar	A conference about research and	Vrije Universiteit,	June 20, 2016
	het onderwijs	developments in	Amsterdam	2010
	van de	education.	7 11110101 44111	
	toekomst	Here a lecture was given		
		to teachers, principles		
		and researchers about		
		the project and formative assessment		
INHOLLAN	Formatief	Workshop/in service	Schagen	Septemb
D	assessment in	training for 30 teachers in		er 15,
	de les	formative assessment		2016
INHOLLAN	Grenze(n)loze wiskunde	Conference for	Veenendaal	Novembe
D	wiskuride	researches, teachers in education of		r 4, 2016
		mathematics. Theme of		
		this conference this year		
		is Borderless		
		Mathematics. In the		
		subsection "Boundaries to what teachers can do		
		in education" a lecture		
		was given about the		
		research project.		
INHOLLAN	Voor en door	In a project leerling2020	Brabant/Zui	Novemb
D	docenten.	several schools	d Nederland	er 10, 2016
	Morgen gaan we	participate in a learning environment to change	Nedelialid	2010
	differentieren	their education. The		
		project is subsidized by		
		the ministry of Education.		

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		At this conference (a quick starter for an professionalization programme) lecture about FA and project.		
UCP	Formative assessment in the teaching and learning of mathematics	The poster of the project was placed in the building of the University (department of Education Studies). The poster of the competition and the flyer were also sent by mail to IREM de paris(institut de recherche en enseignement des mathématiques) Institute of Mathematics and the flyer and poster promoting the completion were sent via mail o the master of didactics of mathematics (University of Paris 7). The poster and flyer were also sent by mail to the middle school of Daguerre (Paris) We also sent the poster of the final conference to the middle school of Daguerre and the we also posted the poster of the conference in the website of the Laboratory of Department of Sciences https://www.u-cergy.fr/fr/laboratoires/em a/recherche/projet-famt-I.html	Department of Education Studies,	2016

5. Publications

A list of publications in Scientific Journals, Conference Proceedings and books with the contributions of all partners is available. These actions are further described in the relevant Deliverable (Deliverable 7.4).

6. Social media

A page in Facebook for the project was created (Figure 25). The Facebook page can be found at https://web.facebook.com/Famtl-Formative-Assessment-in-Mathematics-for-Teaching-and-Learning-

<u>508441582670725/?pnref=story</u>. All partners tried to keep updated the related social media with material (information/ results/ actions) of the project.

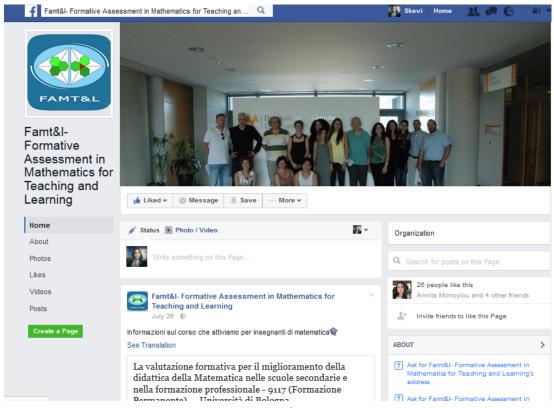


Figure 25. The FAMT&L Facebook page