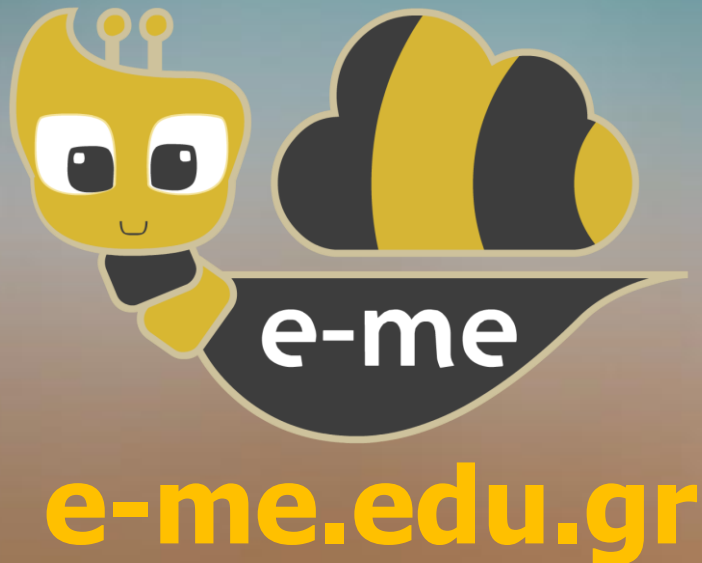


The evolution of the e-me Digital Educational Platform and experiences from its nation-wide use in schools during Covid-19 pandemic

Elina Megalou, Yiannis Tsilivigos, Christos Kaklamanis, Angeliki Politi
Computer Technology Institute & Press (CTI) "DIOPHANTUS" (Greece)



Dr Elina Megalou

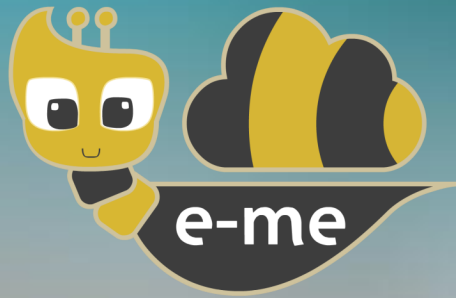
Director of the Strategy & Digital
Educational Content Directorate @CTI
megalou@cti.gr

EDULEARN₂₂

14th annual International
Conference on Education and
New Learning Technologies

Palma de Mallorca (Spain)
4th - 6th of July, 2022

What the presentation is all about



e-me Digital Educational Platform

a social, collaborative, cloud-based platform
for students and teachers

an official platform of the Greek MoE for
primary & secondary education



origins & context



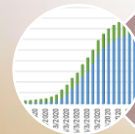
design & pedagogical principles



current functionality



e-me evolution

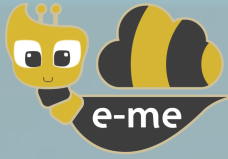


experiences from its nationwide use
in Greece during Covid-19 pandemic



next steps

e-me origins & context



designed and developed in the context of the Greek national programme “**Digital School**” (2010-2021)

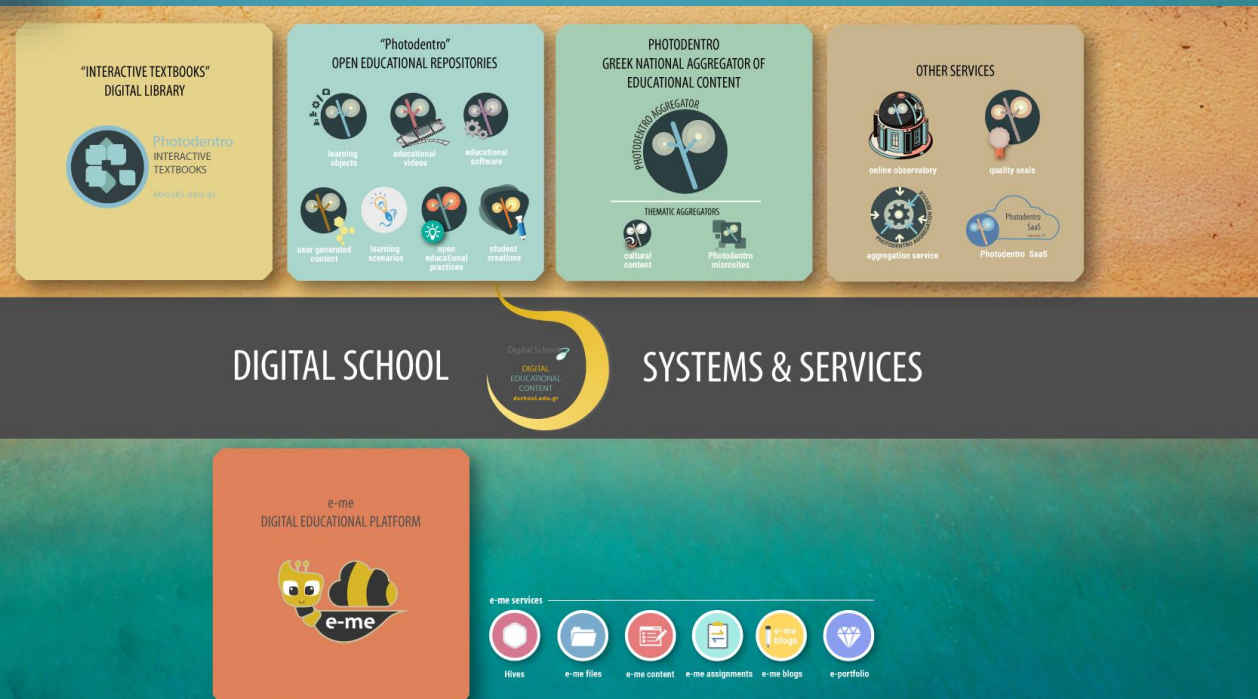
e-me design: started in 2014



dschool.edu.gr



a safe, pedagogically modern, user friendly, and technologically advanced platform, to serve as the **main digital working environment** for all 1.5 M students and 150.000 teachers in Greece



EDULEARN 15

INTRODUCING “E-ME”, THE HELLENIC DIGITAL EDUCATIONAL PLATFORM FOR PUPILS AND TEACHERS

e-me: a new, next generation platform, which follows the principles of a Personal Learning Environment (PLE)

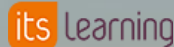
e-me design process



Designing for a large, national scale: an interesting but challenging task

market research on educational and social platforms

Σύστημα	Επικοινωνία	Προφίλ χρήστη	Επαφές	Αρχεία & Φάκελοι	ePortfolio	App Store
Sakai www.sakaiproject.org	✓					
mahara www.mahara.org	✓				✓	
dotlrn www.dotlrn.org http://dotlrn.org/	✓					
LinkedIn www.linkedin.com	✓	✓	✓			
facebook www.facebook.com		✓				
twitter www.twitter.com		✓				
Google+ plus.google.com		✓	✓			
4teachers www.4teachers.gr		✓				
Outlook www.outlook.com			✓			
Google Drive drive.google.com				✓		
Dropbox www.dropbox.com				✓		
Desire2Learn desire2learn.com					✓	



open call for ideas from students and teachers



Send us your suggestions

openspecs.e-me.edu.gr



Η πλατφόρμα «e-me» επιδιώκει να αναβαθμίσει τις υφιστάμενες διαδικασίες, όπως αυτές συμβαίνουν σήμερα εντός και εκτός τάξης. Περιγράψτε μία διαδικασία από την καθημερινότητά σας και τις ιδέες σας για την αξιοποίηση του ψηφιακού περιβάλλοντος του «e-me» και στείλτε την στο e-me@cti.gr.



ΕΙΣΤΕ ΕΚΠΑΙΔΕΥΤΙΚΟΣ;

Στείλτε μας την περιγραφή ενός σεναρίου χρήσης της πλατφόρμας «e-me» για τις ανάγκες της τάξης σας ή του σχολείου σας!



ΕΙΣΤΕ ΜΑΘΗΤΗΣ;

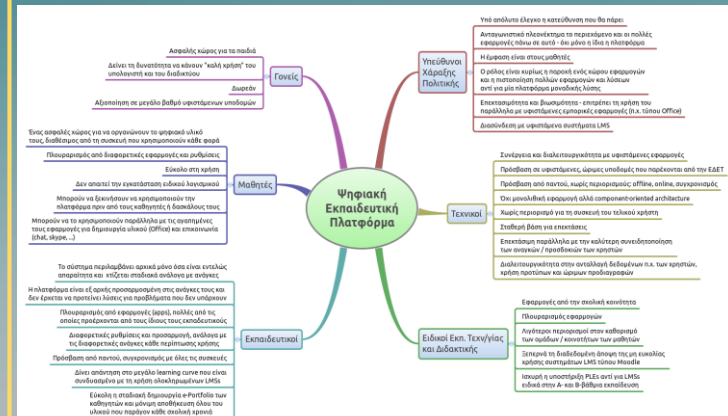
Περιγράψτε μας πώς εφαρμόζετε σήμερα στο σχολείο και εκτός σχολείου για τα μαθήματά σας και τη μαθητική ζωή σας γενικότερα και πώς θα μπορούσε να σας διευκολύνει η πλατφόρμα «e-me».

ΣΤΕΙΛΤΕ ΜΑΣ ΤΙΣ ΠΡΟΤΑΣΕΙΣ ΣΑΣ

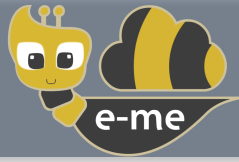
focus groups with all key stakeholders

students
teachers
parents

policy makers
e-learning experts
pedagogists
technical experts



e-me design & pedagogical principles (i)

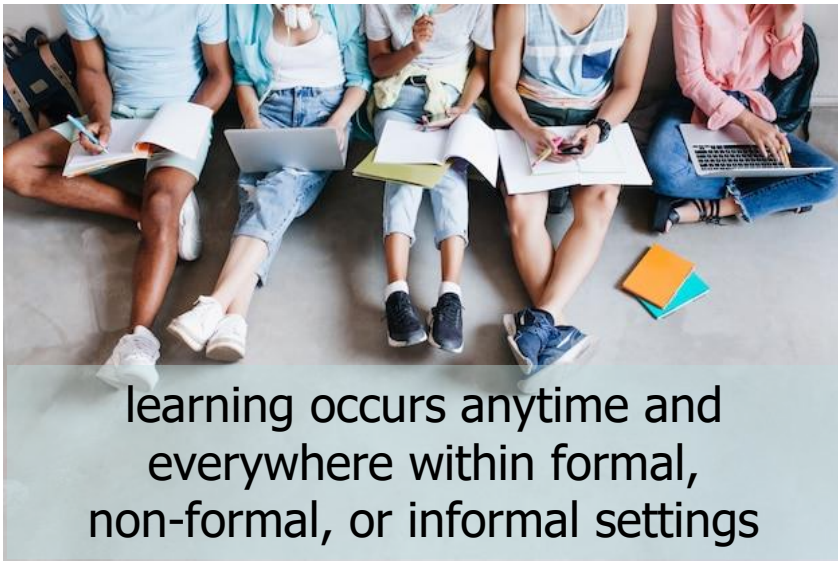


Learning Management System (LMS)

Personal Learning Environment (PLE)

user-centered

a platform focuses on **people**
(not only on classroom activities)



learning occurs anytime and
everywhere within formal,
non-formal, or informal settings



a personal workspace for students and
teachers to support all their activities

students first



familiar, modern, and intuitive user
interface was important

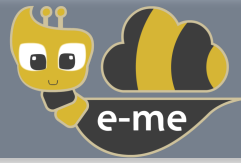
democratic

equal participation of
students and teachers



active and responsible role of
students in all opportunities
offered by the platform

e-me design & pedagogical principles (ii)



smooth transition to the 'digital world'



Everyday activities

1. communicate
2. collaborate (work in groups)
3. collect, share, and use educational resources
4. assign tasks
5. display / present their work

what a platform should first support

sustainable model for growth

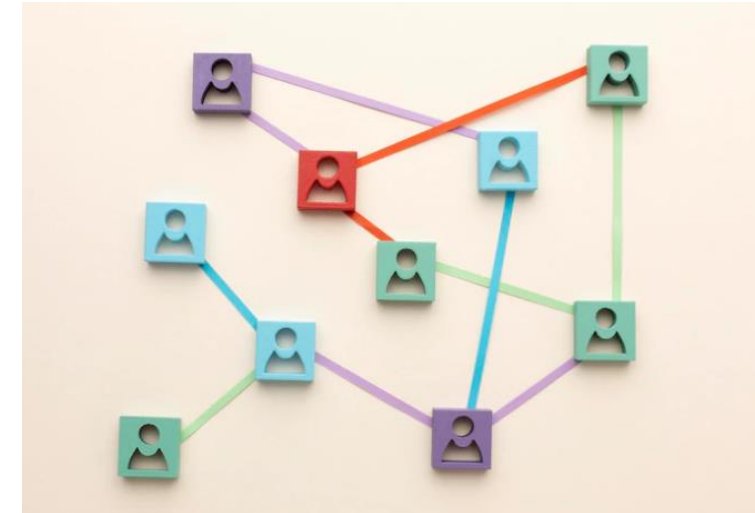


open container for apps



apps by the educational community
or the market to extend its
functionality

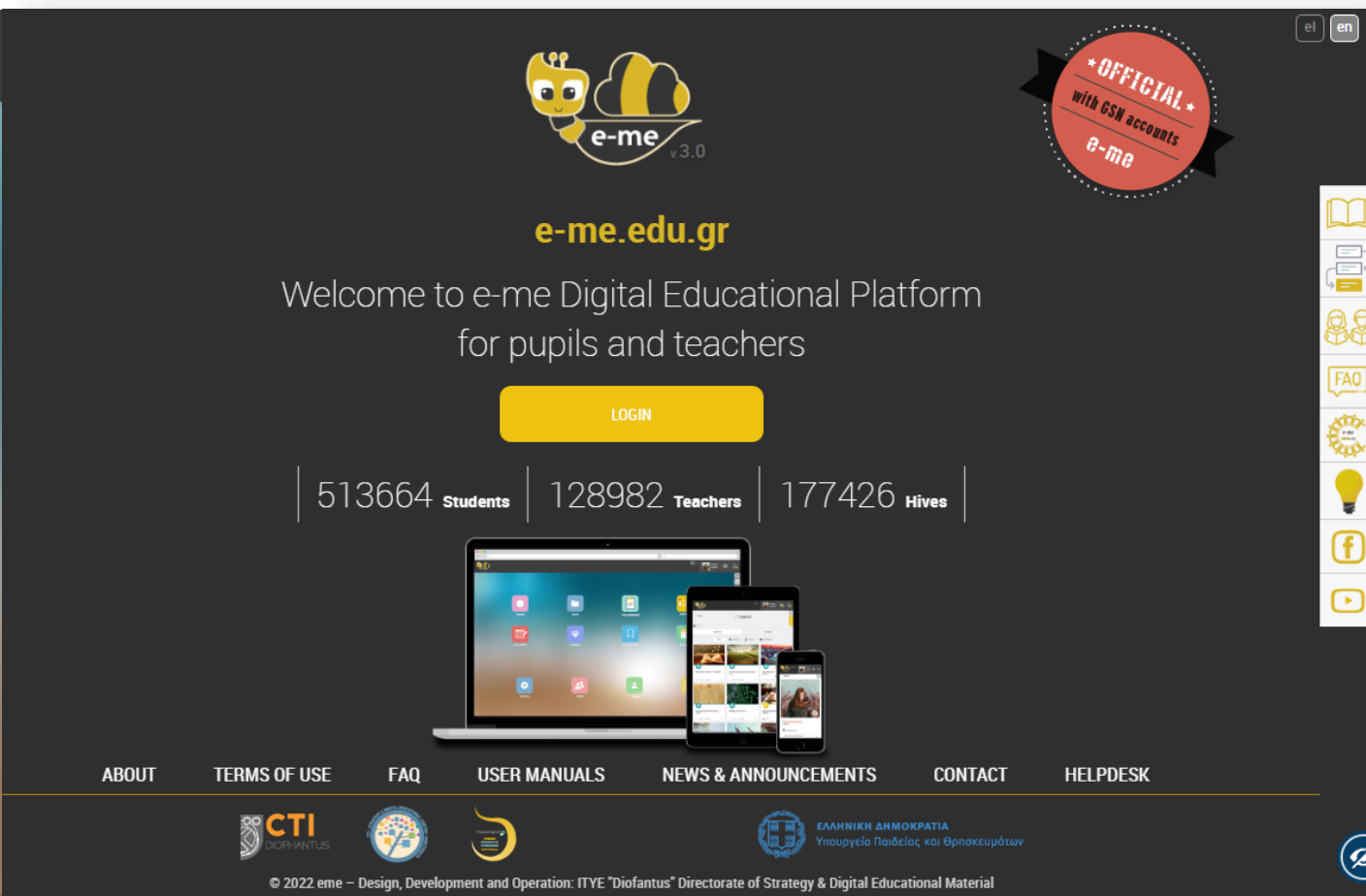
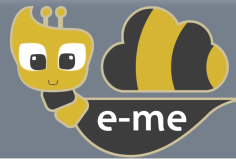
social platform & soft skills



develop 21st century skills

cooperation, communication,
leadership, critical thinking,
flexibility, adaptability etc.

e-me Digital Educational Platform



e-me.edu.gr

e-me is a social, cloud-based digital educational platform.

It provides a safe working space for students and teachers, to **connect**, **communicate**, **collaborate**, and **publish** their work.

e-me v1.0
2015

e-me v3.0
7/2022

e-me v2.0
01/2020

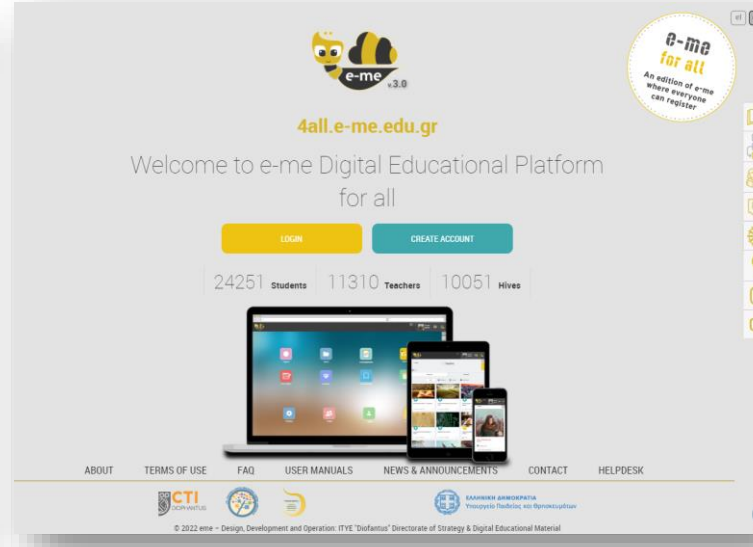
642.000 users

(~129.000 teachers and 513.000 students)



e-me.edu.gr

e-me
official edition
(for students and teachers
of Greek Schools)



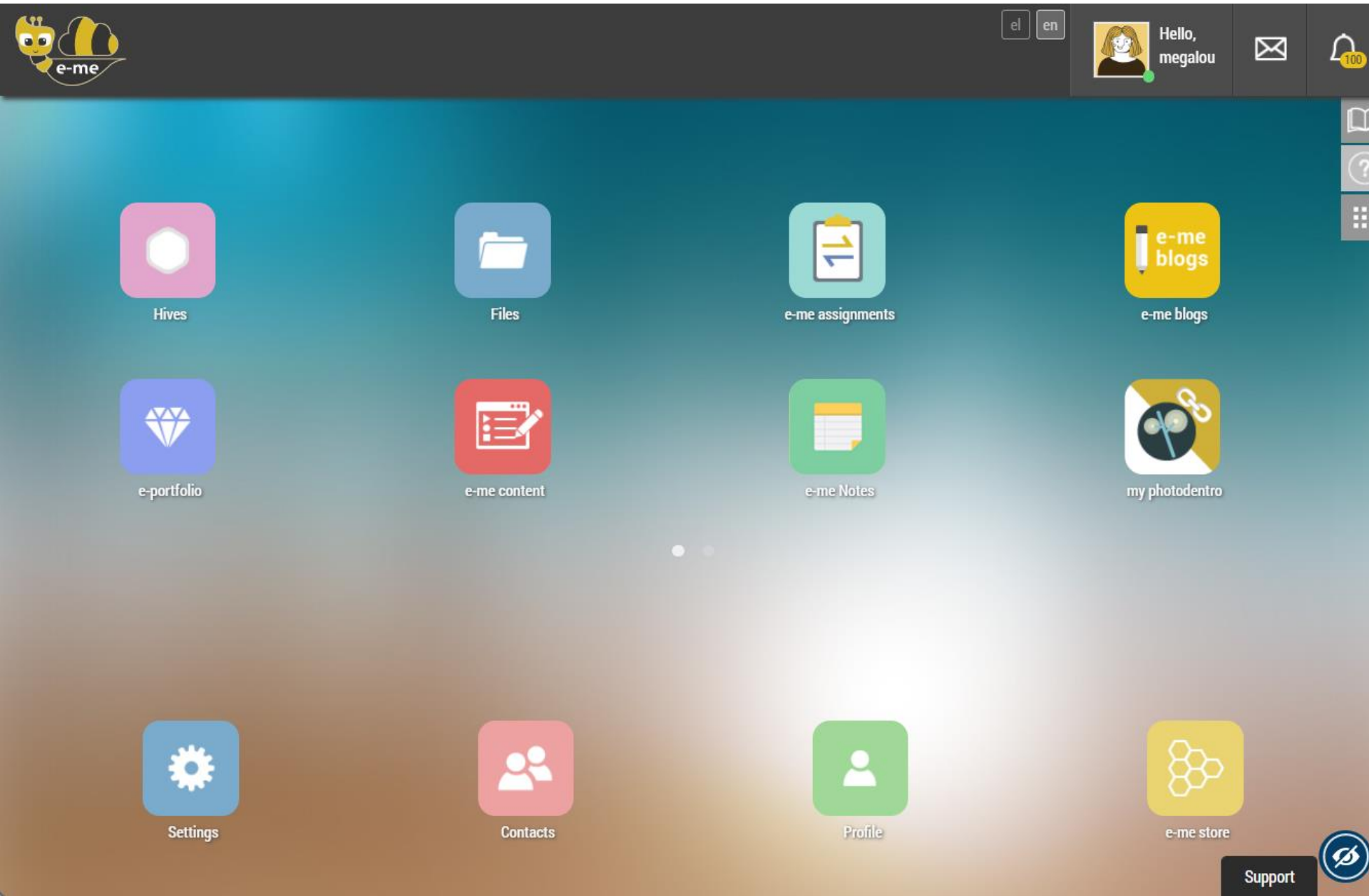
4all.e-me.edu.gr

e-me for all
edition



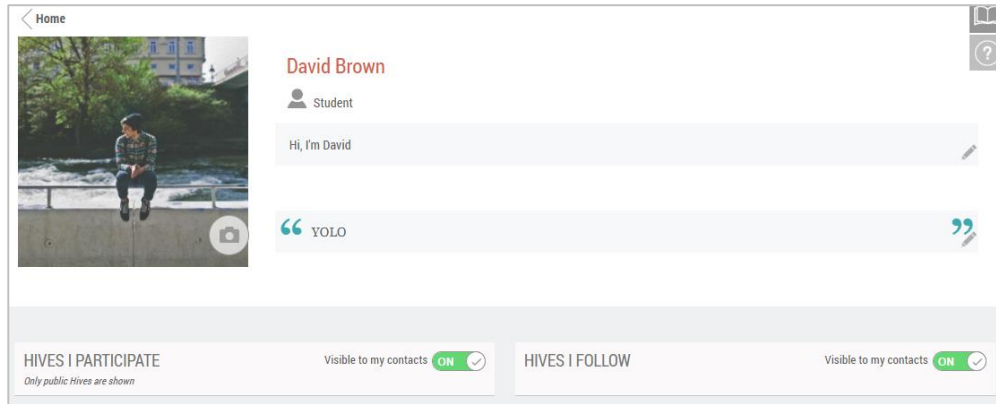
e-me4all.eu

e-me
Digital Educational Platform
(**European edition**)



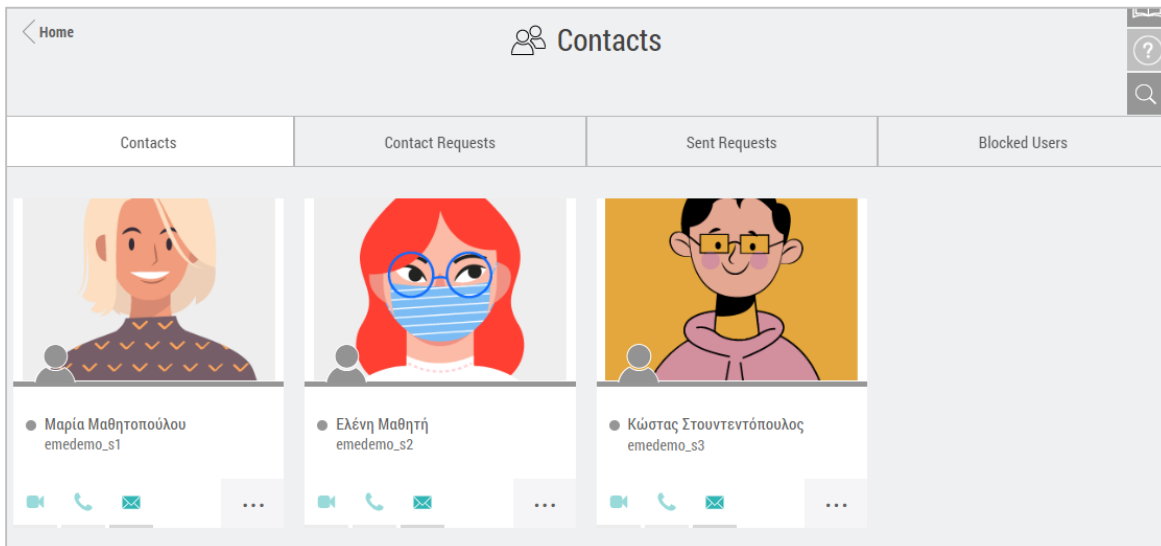
- ❖ modern and intuitive user interface
- ❖ “**container**” for apps, allowing the integration of third party apps

e-me is a social platform



Profile (digital identity)

each member has a public profile



Contacts

each member on e-me can have his/her own contacts (friends) by sending or accepting friend requests

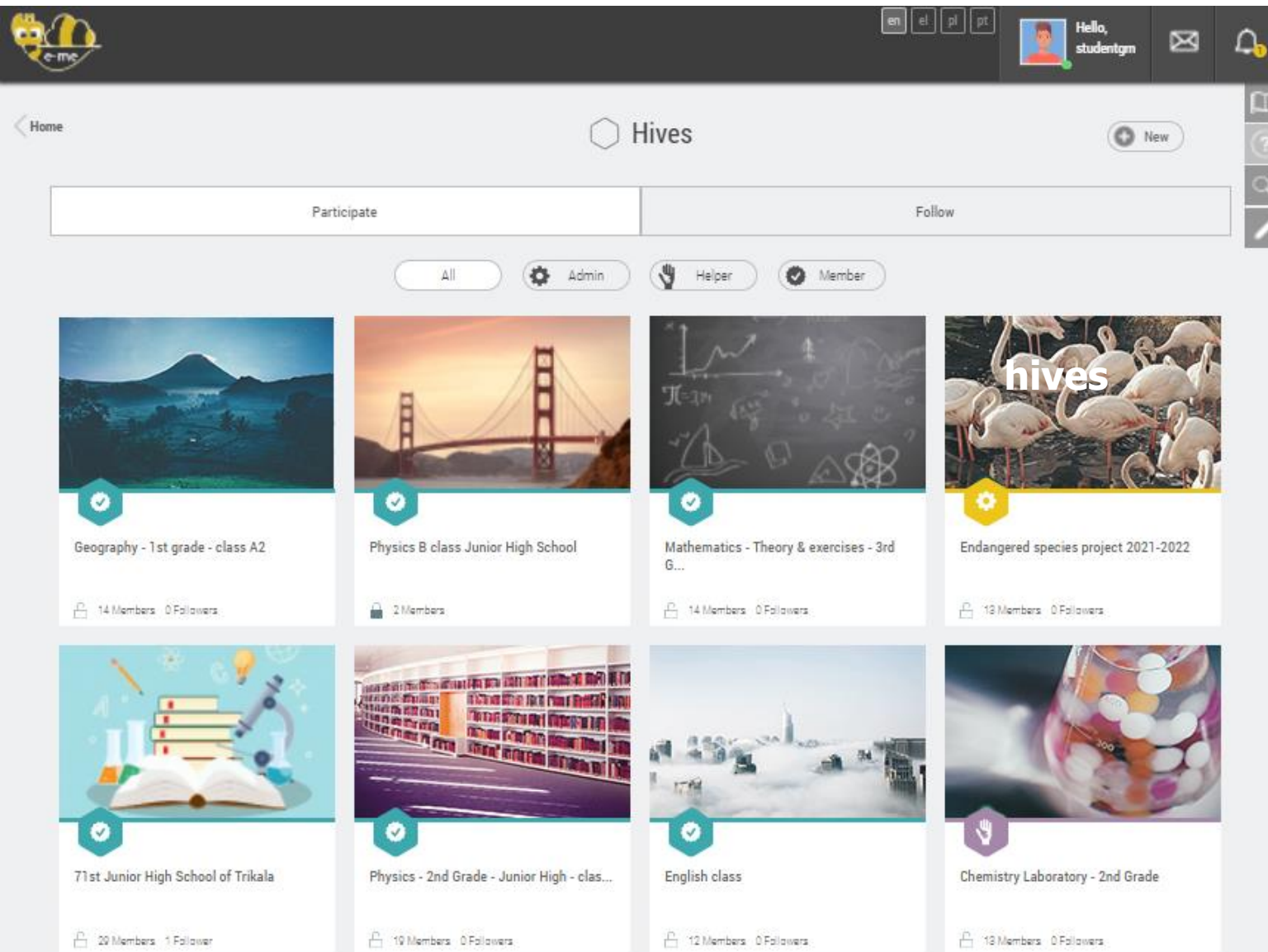


Communication

contacts can directly communicate via **chat**, **voice calls**, and **1-1 video-calls**



e-me is a collaborative platform

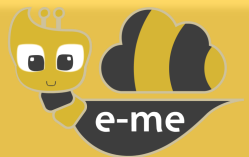


Hives: a key structural concept in e-me

- smaller, self-contained, **social, collaboration spaces**
- created by both **students** and **teachers**
- offer **shared file space**, a strong **communication tool (Wall)** and **collaborative tools**

A hive can represent:

- a class
- students working in a school project or an extracurricular activity
- teachers in a professional development program
- students from different schools, places, or countries, cooperating in a project
- ...



Hive's leader



both students and teachers
can create hives and invite
members to participate

students as Hive leaders

Hives: private or public



Public Hive

Create

- ✓ wall public or private
- ✓ appears in search results
- ✓ preinstalled public blog
- ✓ supports followers

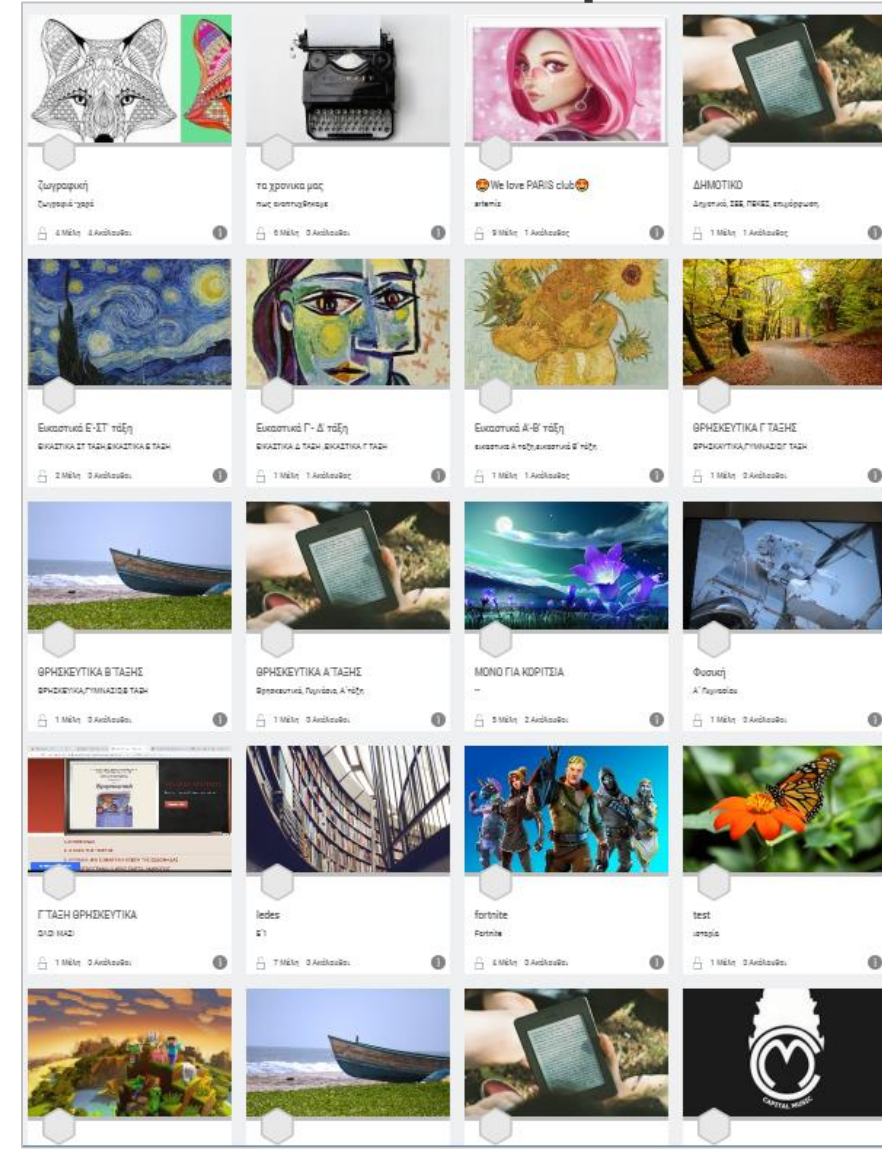


Private Hive

Create

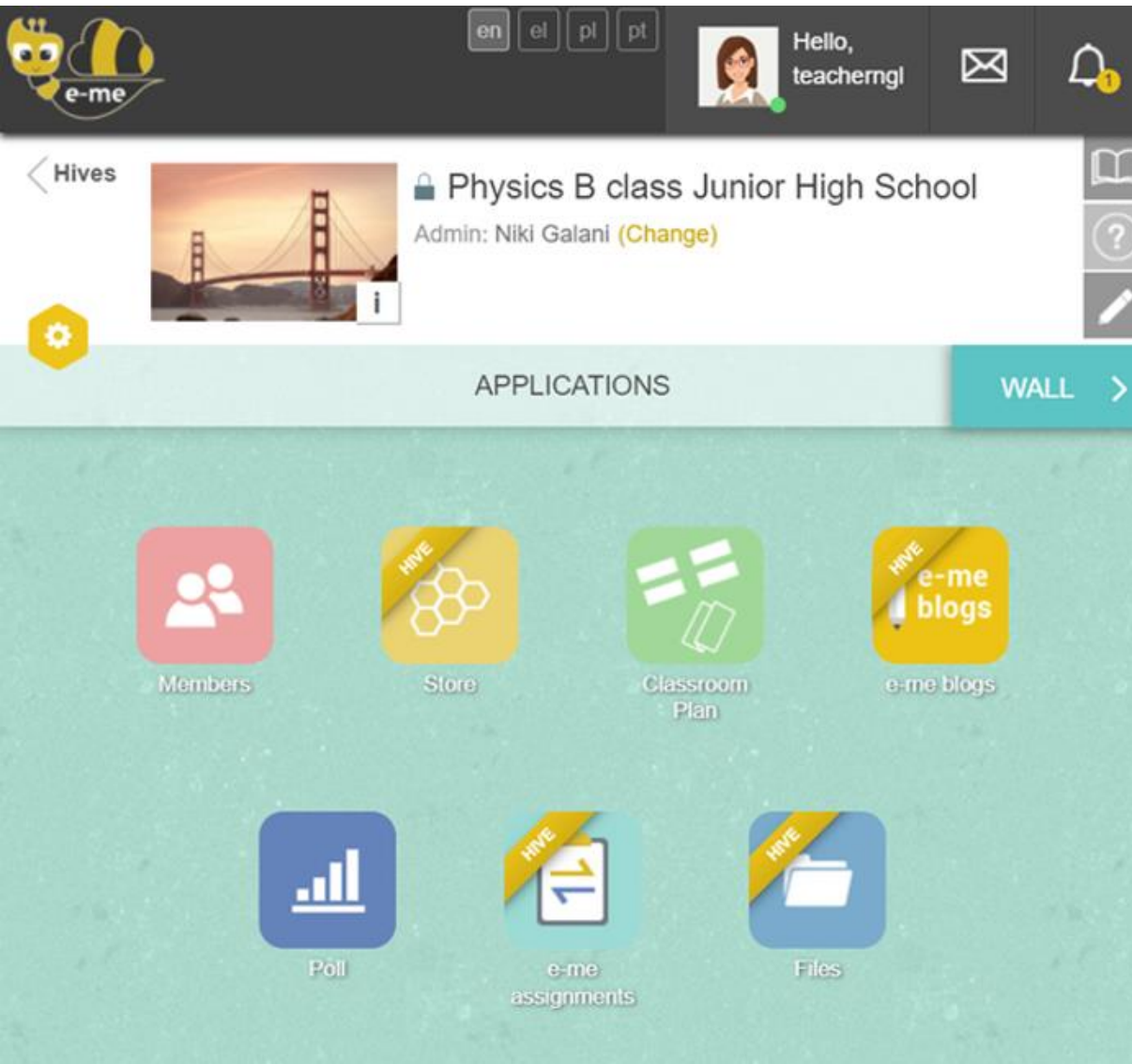
- ✓ wall private only
- ✓ doesn't appear in search results
- ✓ installable public blog

public hives: open educational communities of practice



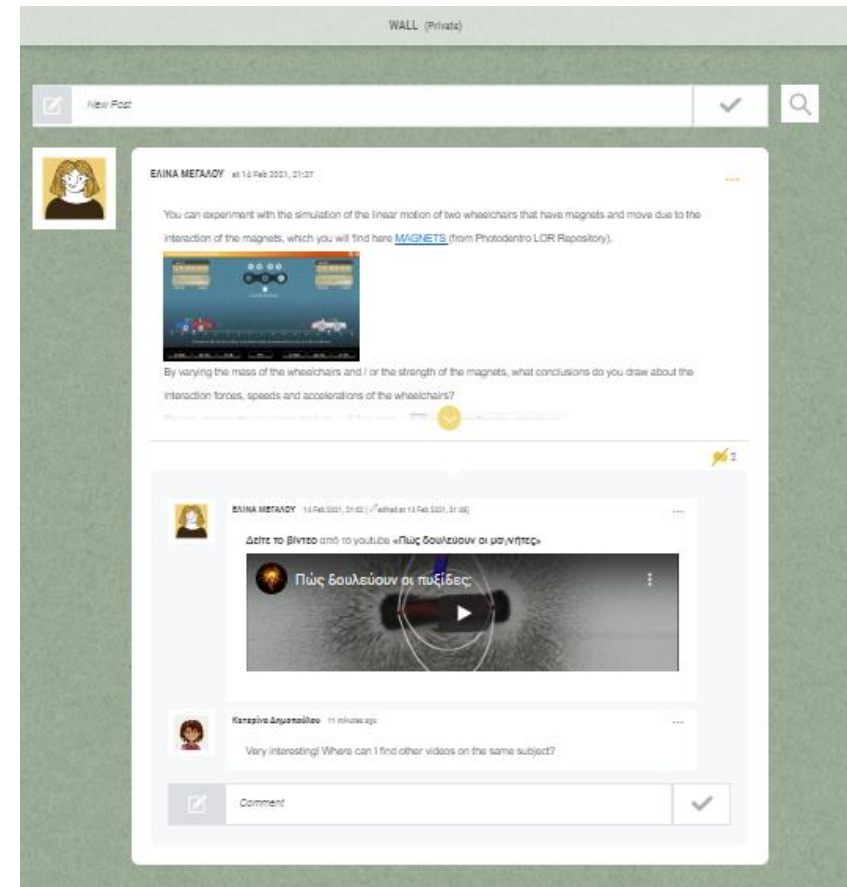


A hive has members, shared file space, collaborative apps and communication tools

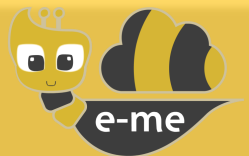


Hive's Wall

main communication channel for all hive members

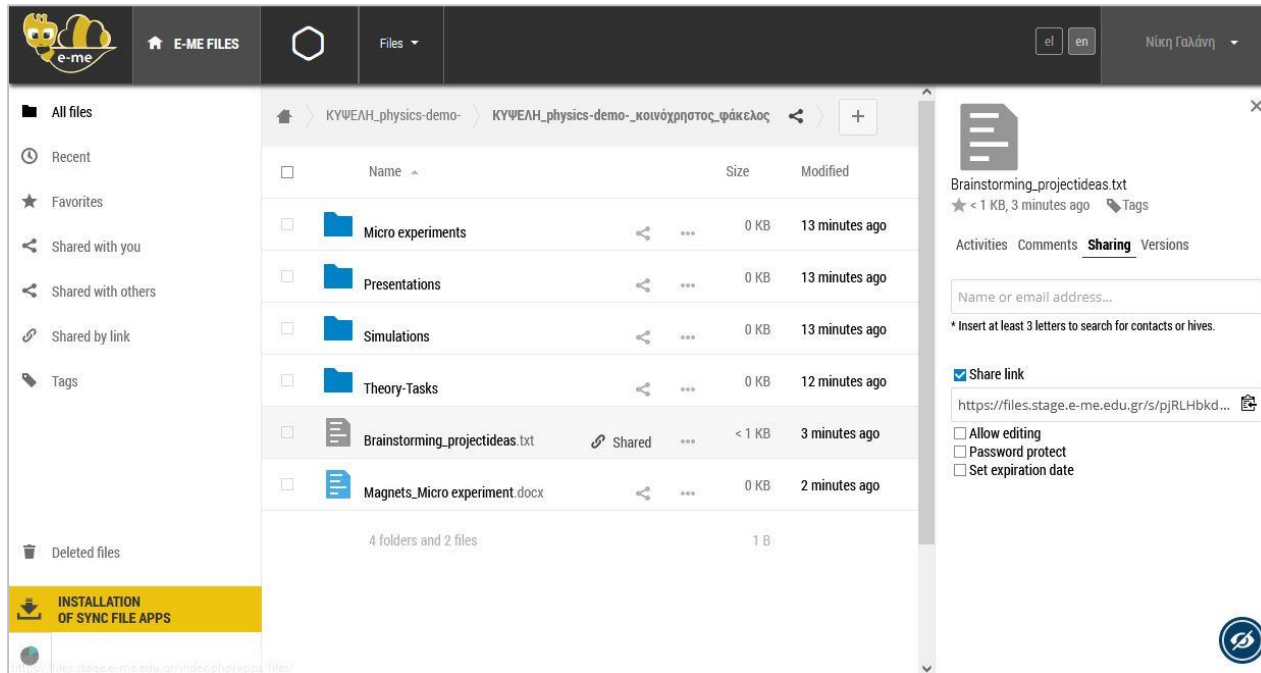


Open to all members to add posts & comments, share ideas, assign tasks & provide feedback, upload interactive learning material etc.



Hive's shared folder

each hive has by default a shared file folder for all its members



hive's collaborative blog

all members can write and post articles



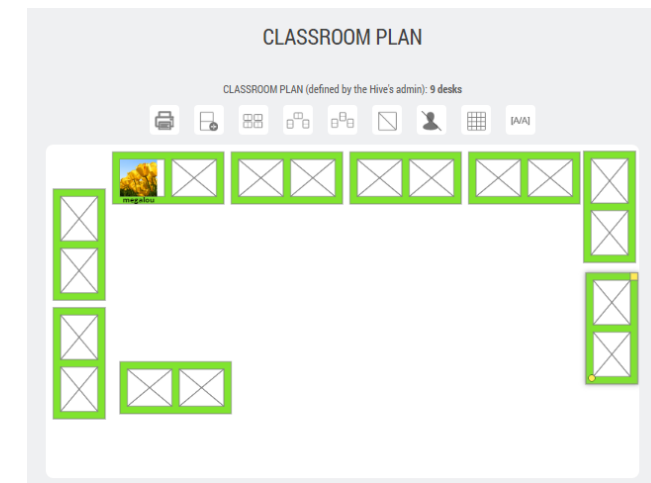
Polls app

contacting live polls



Class Plan

visualizes the classroom layout arrangement of desks and students





e-me files

Cloud storage and file sharing
for students and teachers



e-me content

Easy development of interactive
educational resources



e-me assignments

Create and assign tasks
to students



e-me blogs

Create personal and
collaborative blogs



e-portfolio

Create e-portfolio
to organize and disseminate
students' and teachers' achievements



my Photodentro

Create a personal repository of
digital educational content from
Photodentro



e-me Notes

Create personal notebook



e-me bookmarks

Create personal collection
of bookmarks



Calendar

Create and share your
calendar(s)



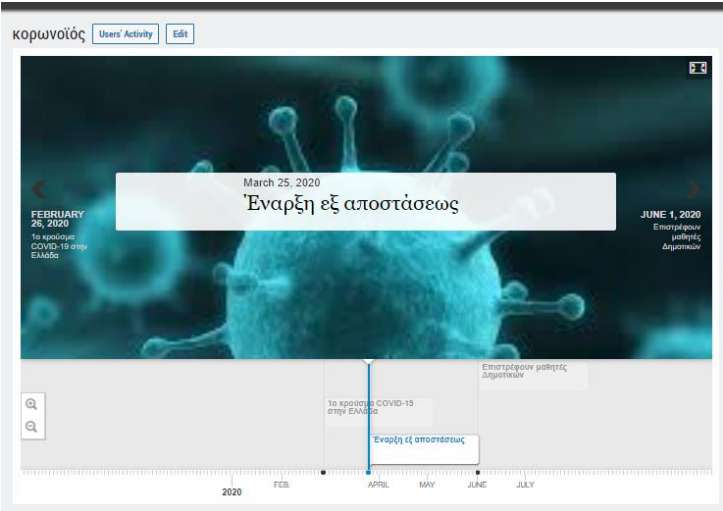
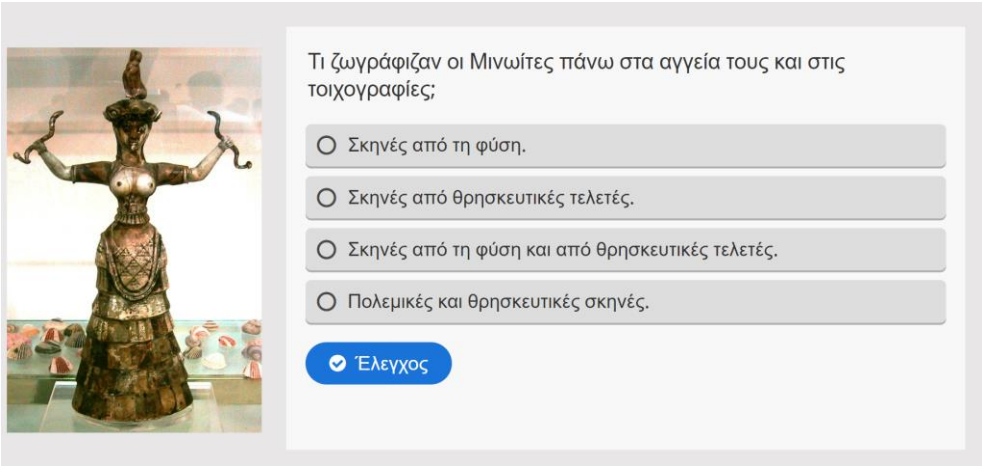
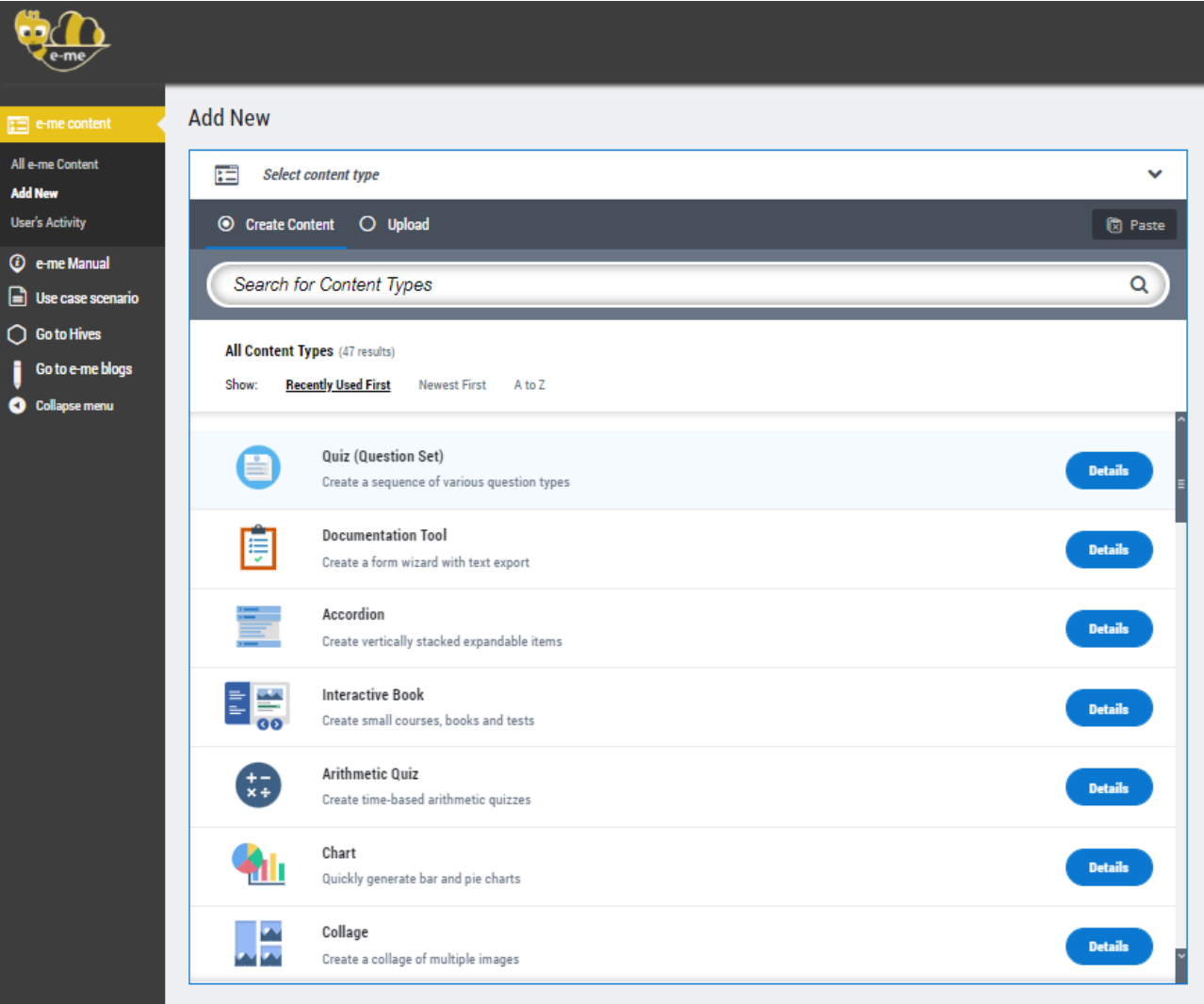
ELeFyS

Greek Illustrated Science
Dictionary for School



A powerful and easy to use tool for teachers and students to create interactive learning resources

It supports 45 types of resources: interactive videos, quizzes, memory games and multiple-choice questions etc.



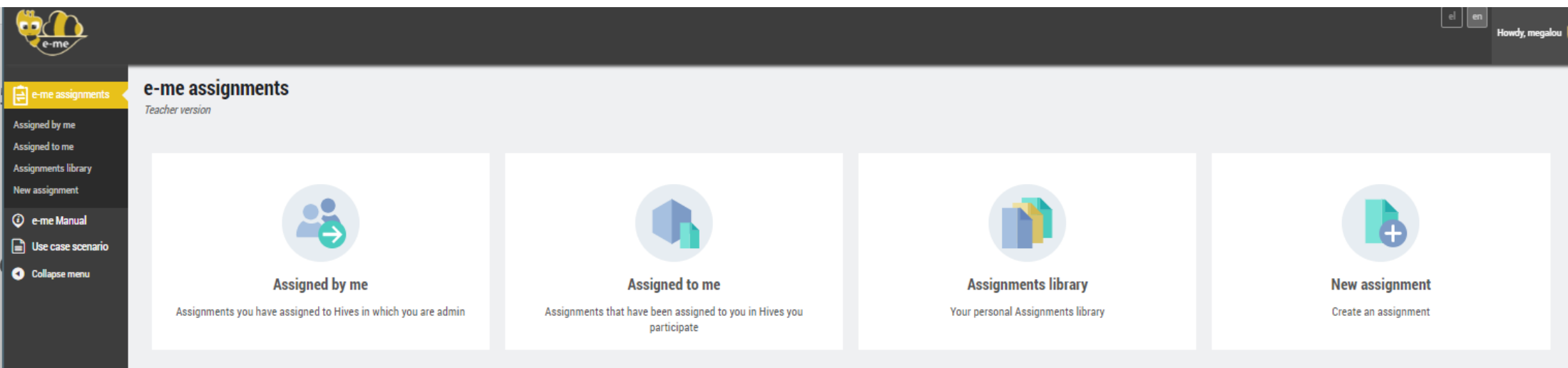
based on H5P open source tool



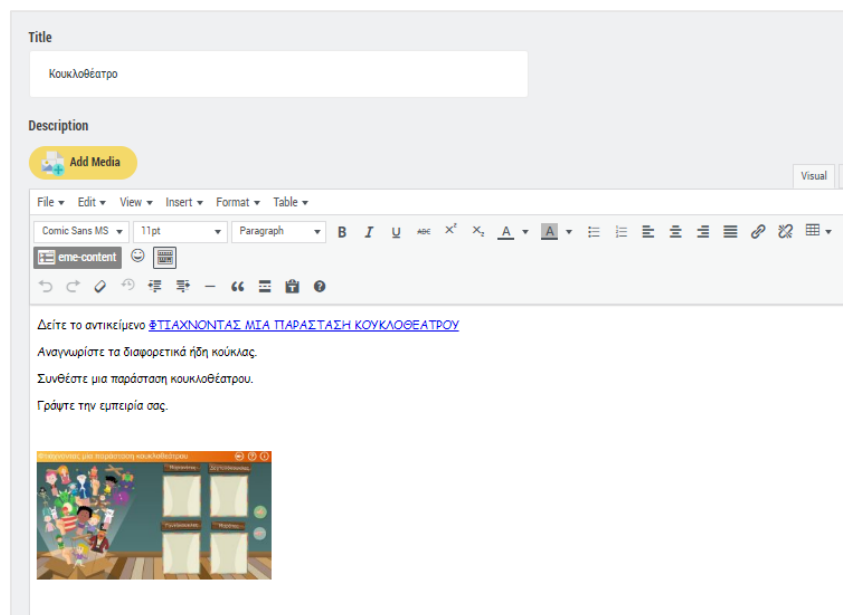
e-me assignments (assigning and monitoring tasks)



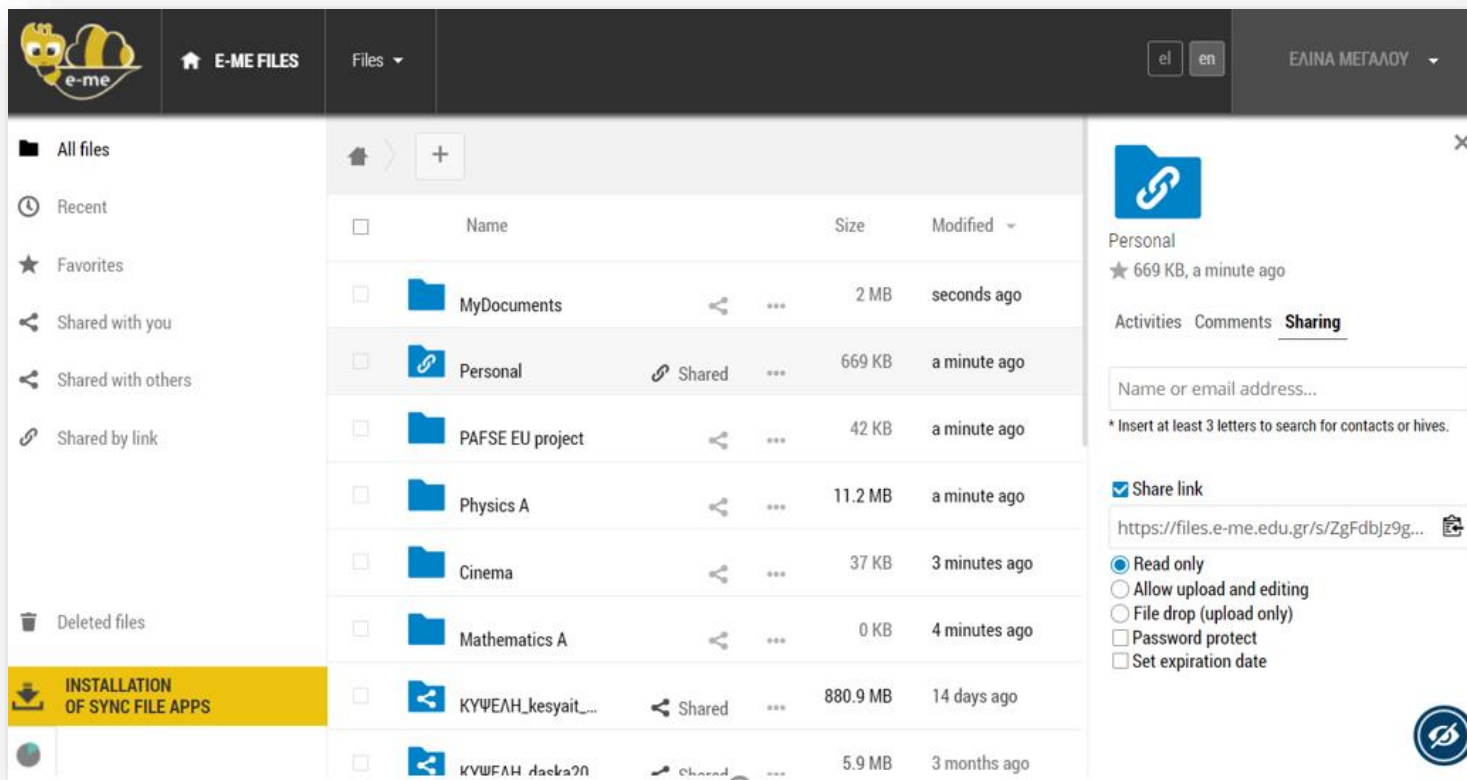
tool for creating assignments, assigning tasks to pupils and giving feedback



- create assignments
- manage and assign them to pupils, either individually, or to all members of a hive,
- monitor their progress,
- provide feedback etc.



assignments can include images, video, e-me content objects, interactive multimedia resources, file attachments, etc.

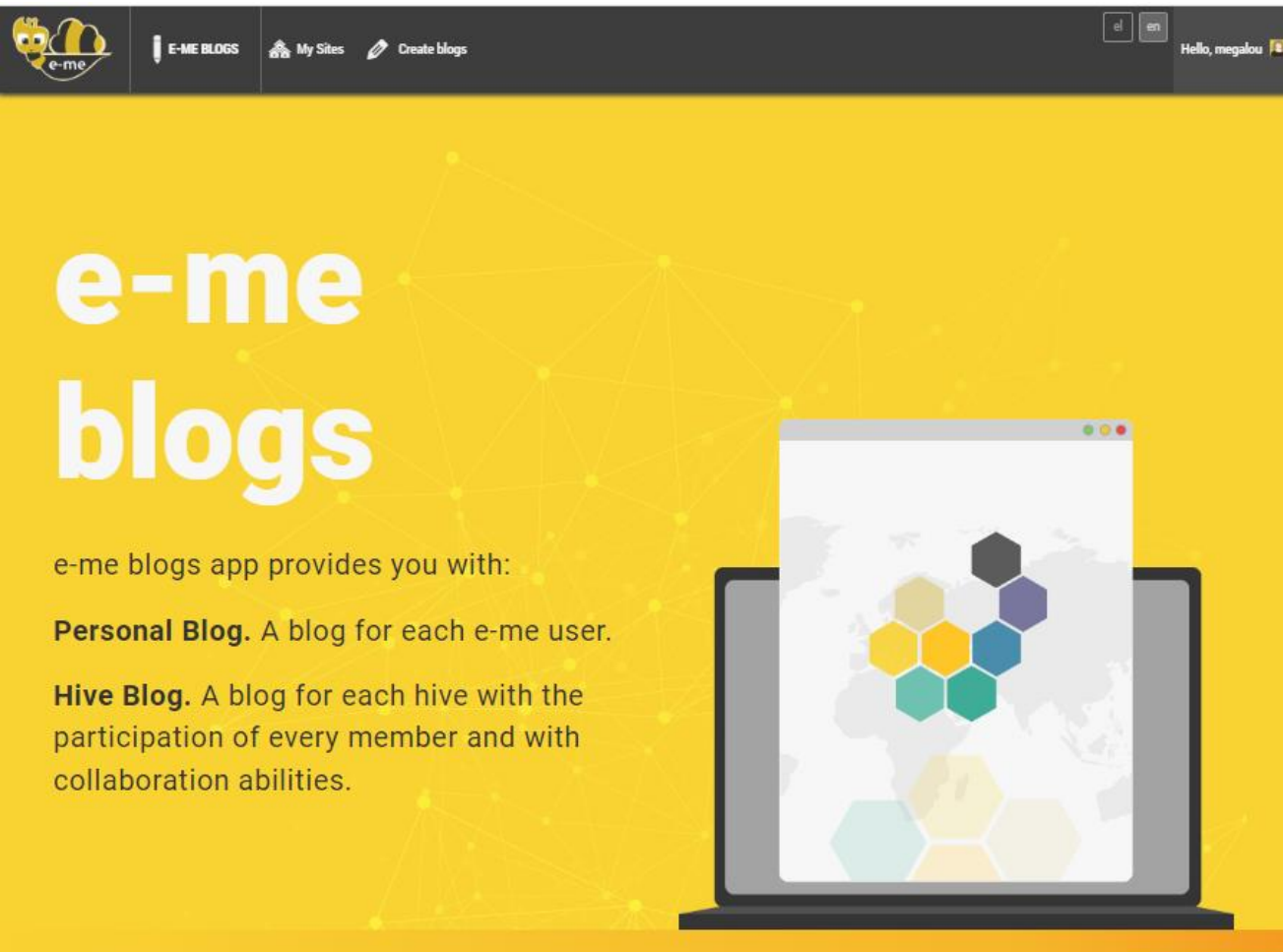


cloud storage for personal files

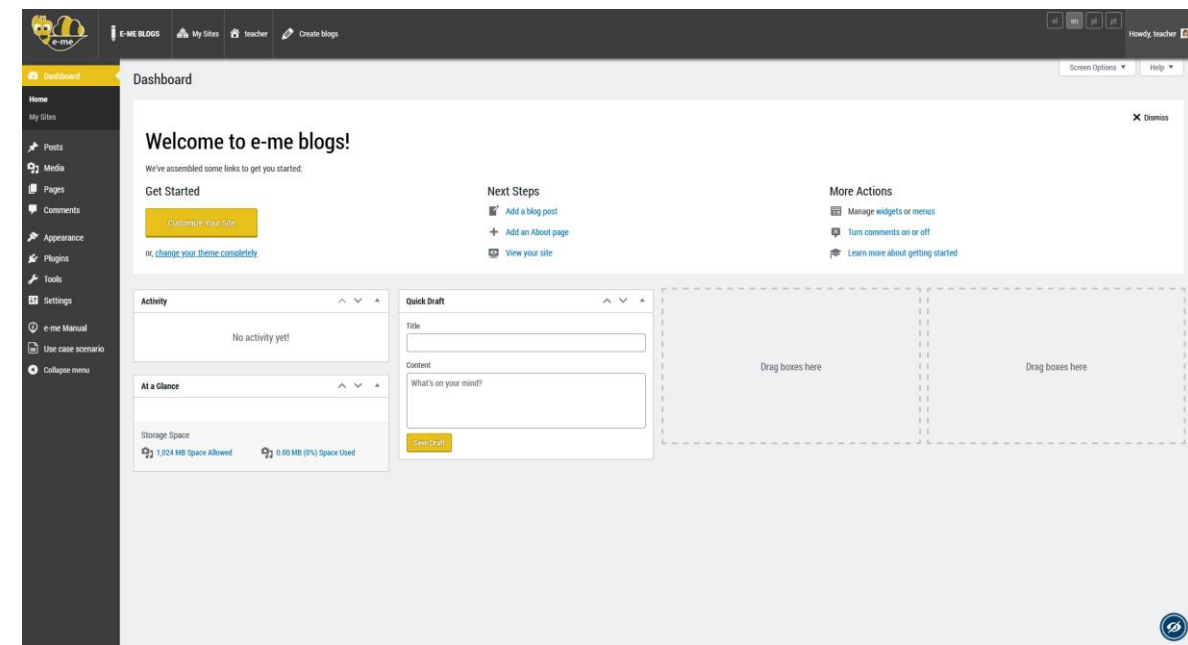
each e-me member has a personal storage of 2GB on the cloud to **upload, organize, store** and **share** their files.

based on NextCloud
open source tool

tool for publishing, displaying, and communicating work and achievements outside e-me



each e-me member has a personal blog, pre-installed and available in their workspace.





a personal electronic portfolio

The screenshot shows the e-me portfolio interface. At the top, there's a navigation bar with a home button, a language selector (el/en), a user profile (Hello, emedemo_s1), and notification icons. Below this is a header with the 'E-PORTFOLIO' title and a 'Folders List' button. The main content area displays a grid of portfolio items. The first item is titled 'ΣΤ' ΔΗΜΟΤΙΚΟΥ' (Primary School) and shows a grid of four items: 'Διαφοροποιημένη μάθηση - Αριθμητική' (Differentiated learning - Arithmetic), 'Το παράθυρο Johari' (The Johari window), and 'Μελέτη Περιβάλλοντος' (Environmental study). Each item has a thumbnail image and a brief description. The 'Διαφοροποιημένη μάθηση - Αριθμητική' item shows a handwritten note. The 'Το παράθυρο Johari' item shows a diagram of the Johari window. The 'Μελέτη Περιβάλλοντος' item shows a photograph of a plant. The 'Επιλεγμένες εργασίες μου από την ΣΤ' ΔΗΜΟΤΙΚΟΥ' (Selected works from Primary School) text is visible above the grid.

Students: collect, select, document, and maintain year-by-year achievements or representative work that best support their self-presentation

The screenshot shows the detail page for the 'Μελέτη Περιβάλλοντος' (Environmental study) item. It features a large thumbnail image of a plant. To the right of the image, there is a section for 'Description / Choice Justification:' which contains the text: 'Επέλεξα τη συγκεκριμένη εργασία για το portfolio επειδή έμαθα για τα φυτά στο μπαλκόνι μου' (I chose this specific work for the portfolio because I learned about the plants on my balcony). Below this, there are fields for 'Tags:', 'Post Date:', and 'Visible to:'. The 'Tags:' field contains 'Φυτολόγιο'. The 'Post Date:' field contains '11/03/2022'. The 'Visible to:' field contains 'All'. At the bottom, there is a 'FILES' section showing four thumbnail images of the portfolio items: 'ΣΤ ΜΕΛΕΤΗ ΠΕΡΙΒΑΛΛΟΝΤΟΣ - ΤΕΚΜΗΡΙΩΣΗ .jpg', 'ΣΤ ΦΥΤΟΛΟΓΙΟ-1 .jpg', 'ΣΤ ΦΥΤΟΛΟΓΙΟ-2 .jpg', and 'ΣΤ ΦΥΤΟΛΟΓΙΟ-3 .jpg'.

e-portfolio's pedagogical use: reflection on the teaching or learning process

more e-me apps



MyPhotodentro

Connects *e-me* with the National "Photodentro" OER Repositories, allowing members to create their own repository in e-me.



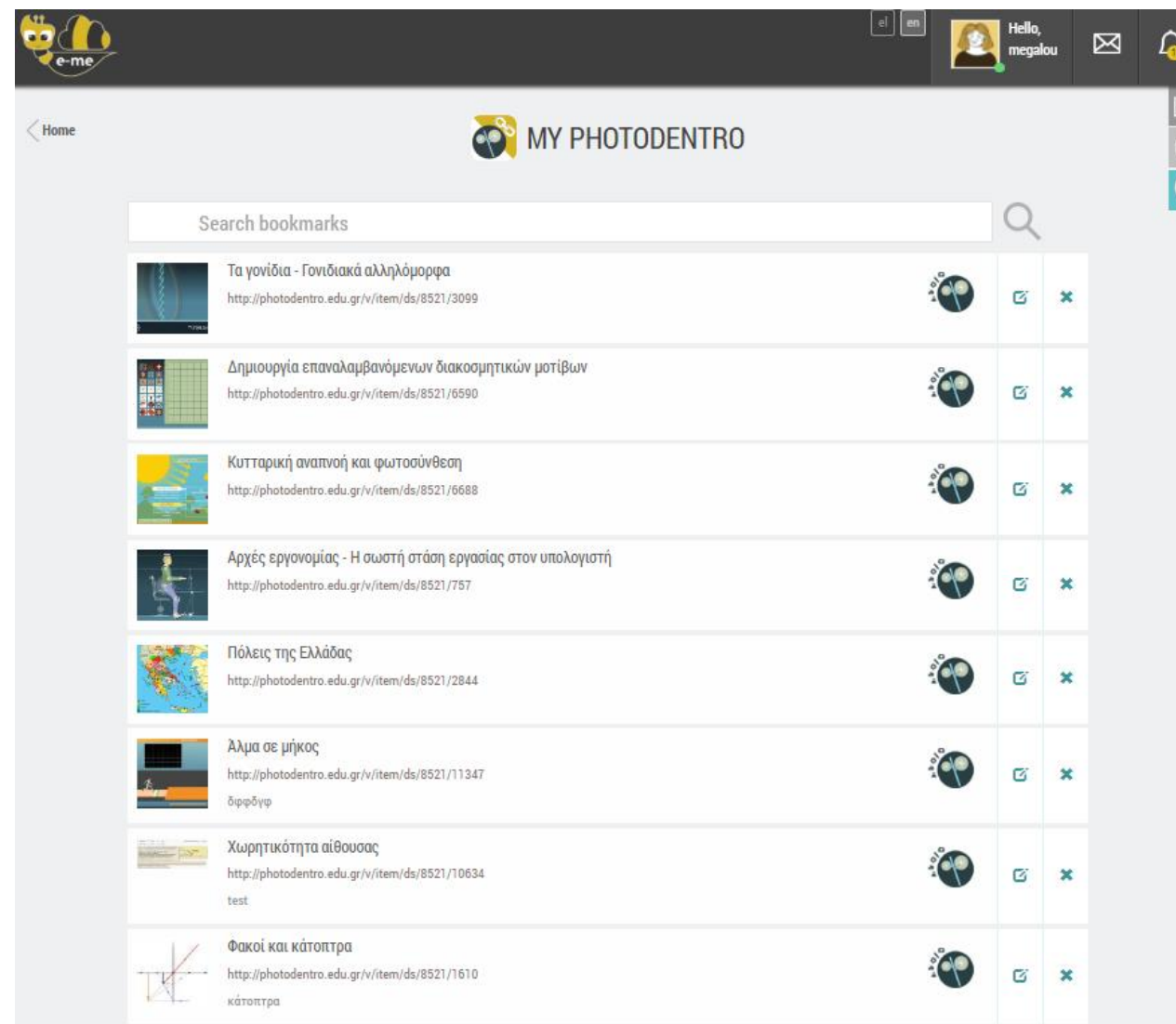
e-me Notes

personal notebook to create, organize and share notes



e-me Bookmarks

collecting bookmarks from favorite websites and storing them in *e-me*



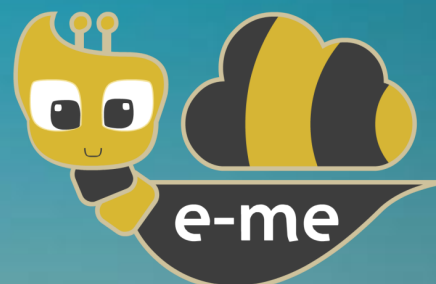
Nationwide use of e-me in Greece during covid-19 pandemic



I. Synchronous (tele)teaching



II. Asynchronous e-learning two options (Greek platforms)



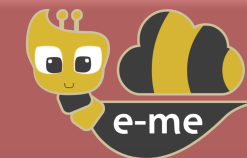
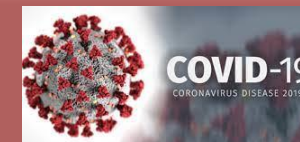
e-me
Digital Educational Platform

e-me: one of the two official Greek platforms offered by the Greek Ministry of Education to support asynchronous e-learning in primary and secondary education

III. Educational TV lessons

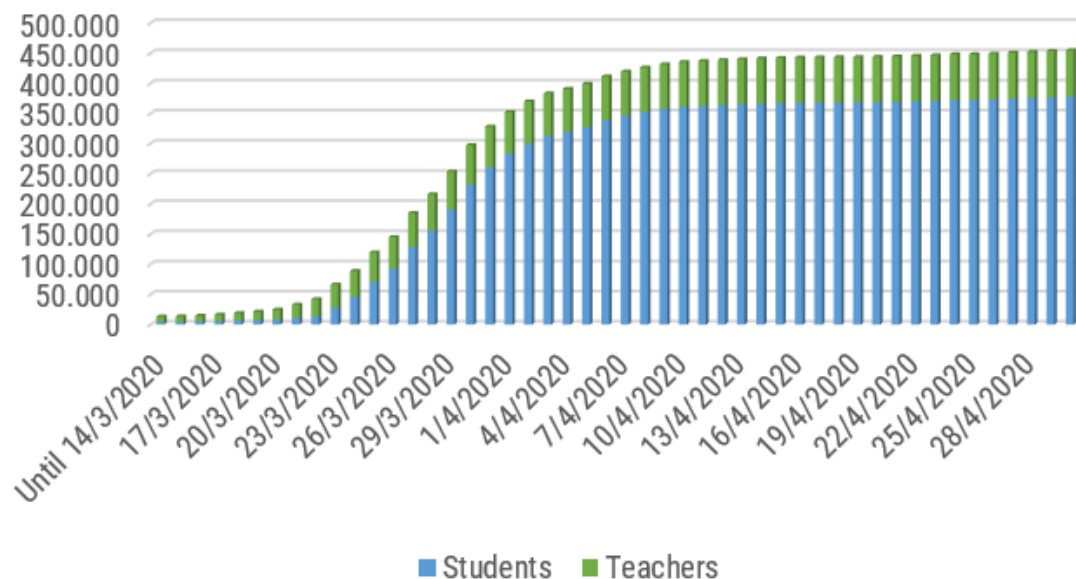


e-me users and hives: growth in numbers



e-me

Growth in the number of users (students & teachers)
during Covid-19 pandemic (March-April 2020)



number of e-me users: increase of **4,300%**
within 2 months!

before Covid-19 (14/03/2020): 10.000 users
within 2 months (14/05/2020): 430.000 users

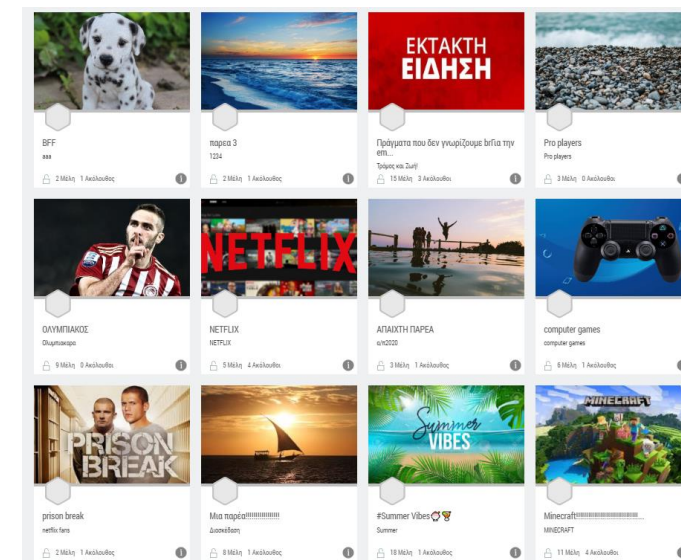
e-me Hives (classes / collaboration spaces)



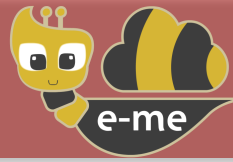
over **120,000 hives** were created, representing either formal school classes or informal collaboration spaces.

10,000 hives by students

(need for cooperation and communication with peers during quarantine time)



e-me open communities of practice



Public Hives

Ordering: Popularity ▼



Δάσκαλοι
δάσκαλοι

1633 Members 215 Followers



ΠΔΒ 2022 Γυμνάσιο
ΠΔΒ 2022, ΠΔΒ 2022 γυμ

979 Members 17 Followers



ΨΗΦΙΑΚΗ ΣΧΟΛΙΚΗ ΒΙΒΛΙΟΘΗΚΗ 1ου
ΔΗΜΟΤΙΚΟΥ...

Σχολική Βιβλιοθήκη, 1ο Δ.Σ. Μελισσίων, eb...

728 Members 140 Followers



Ε' Δημοτικού
Ε' τάξη Δημοτικό

674 Members 101 Followers



Εκπαιδευτικοί Π.Ε. Ημαθίας
Εκπαιδευτικοί, Ημαθία

632 Members 127 Followers



Α' Δημοτικού - Εκπαιδευτικοί
Α' τάξη

634 Members 58 Followers



Δ' Δημοτικού - Εκπαιδευτικοί
dtaxi-syn

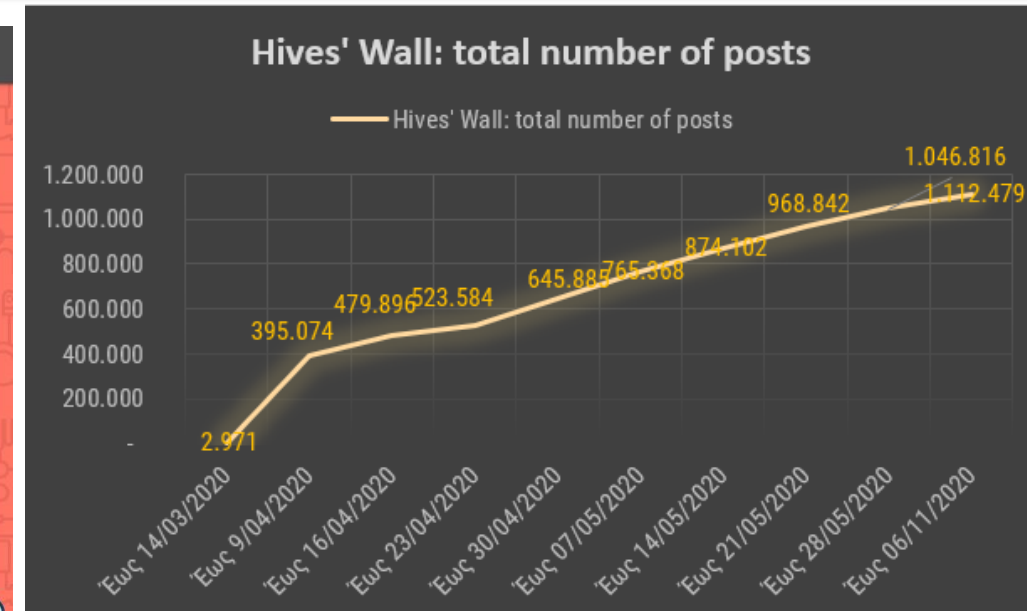
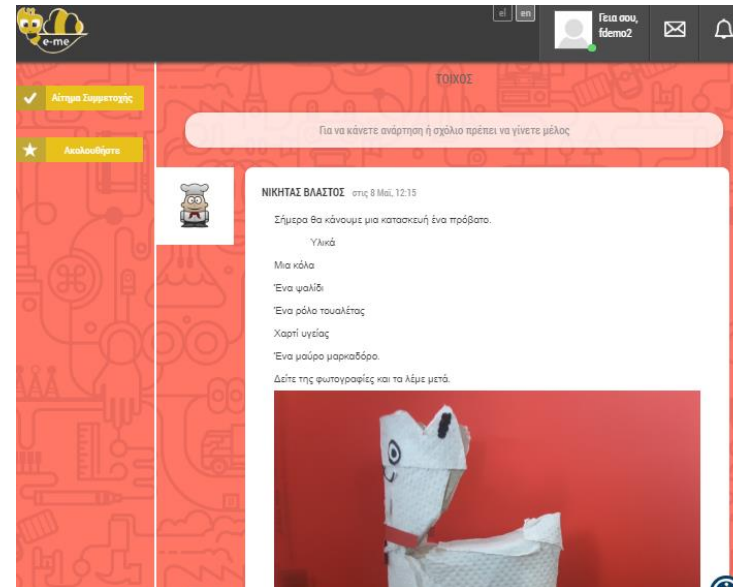
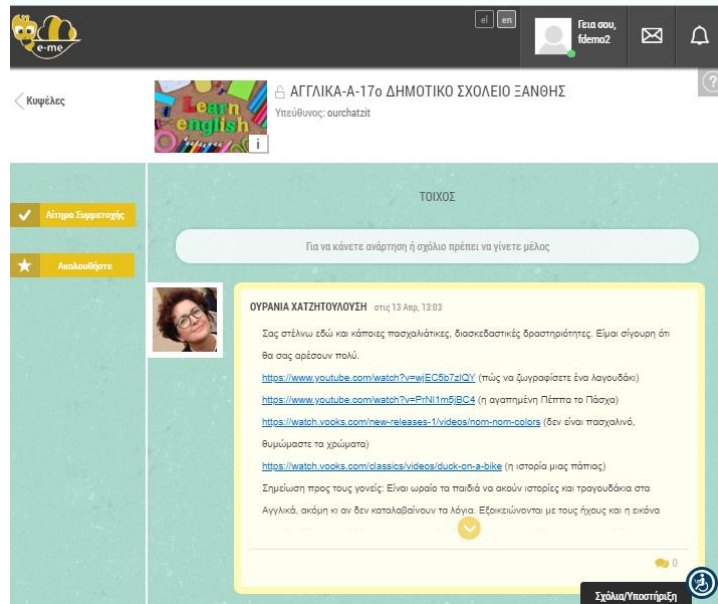
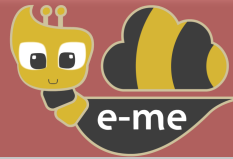
625 Members 55 Followers



ΣΥΝΕΡΓΑΣΙΑ ΣΤ - ΜΟΝΟ ΕΚΠΑΙΔΕΥΤΙΚΟΙ
Δάσκαλοι, ΣΤ, Δημοτικό, Συνεργασία

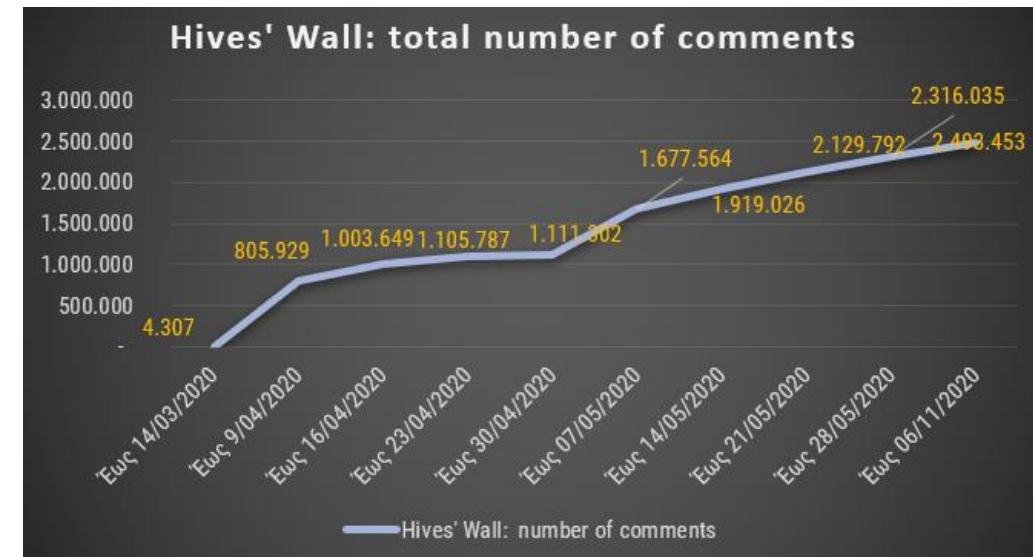
619 Members 45 Followers

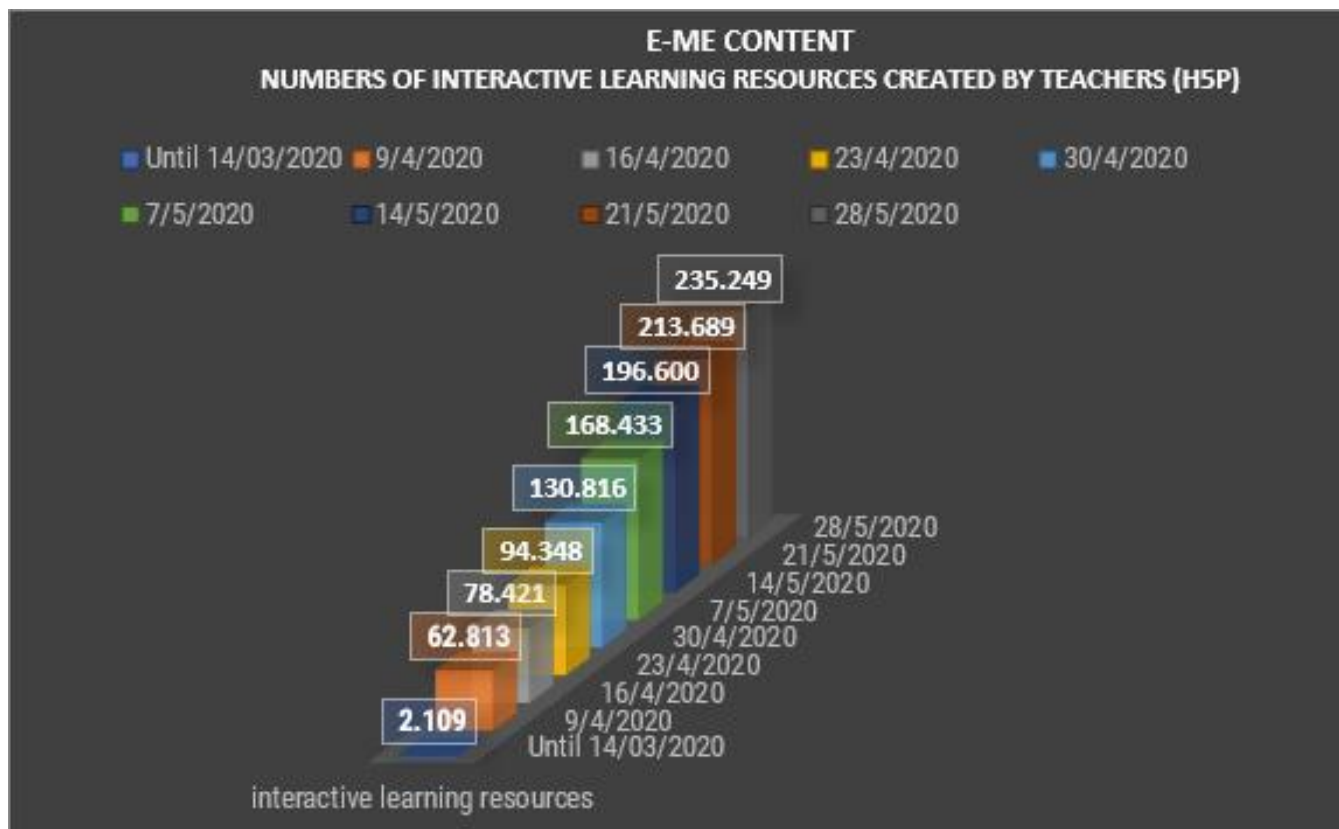
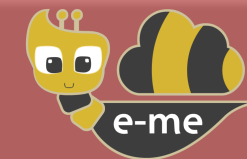
over 15,000 **public** hives were created by teachers, to share good practices, guide each other, and exchange learning resources.



e-me hive's Wall: proved to be a very powerful communication and educational tool

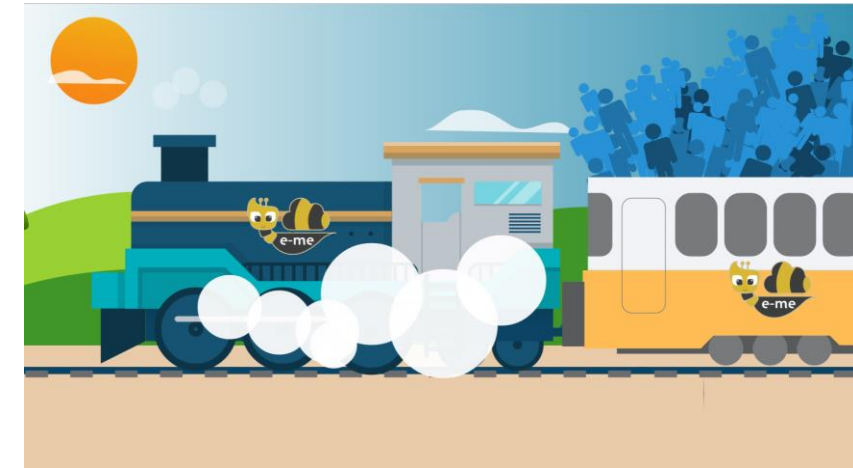
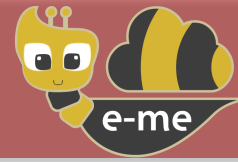
extensive use of e-me messages, audio and video calls






teachers developed in two months over **230,000 interactive learning resources** using the 'e-me content' app
(30.000 per week).

e-me nationwide use issues



- ❖ extension of e-me infrastructure (x3)
- ❖ technical improvements
- ❖ supporting material (guides, video tutorials)
- ❖ help desk, social media
- ❖ community-based training → teachers created numerous video tutorials for e-me to support each other →

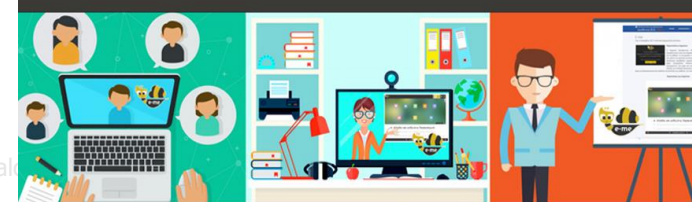


Νέος ιστοχώρος με βίντεο από την κοινότητα της e-me!

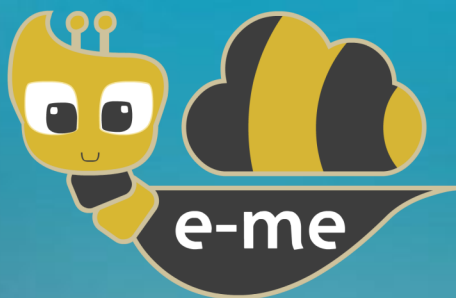
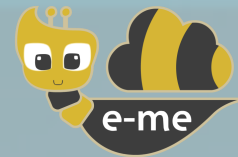
e-me FROM ALL

<https://dschool.edu.gr/emefromall>

Εδώ θα βρείτε βίντεο, παρουσιάσεις, ιστοδιαλέξεις και άλλο επιμορφωτικό υλικό για την e-me που συγκεντρώνουμε από την εκπαιδευτική κοινότητα της e-me και όχι μόνο!
Σας ευχαριστούμε για το μεγάλο ενδιαφέρον και τη συνεισφορά σας!



Conclusions & Next steps



e-me Digital Educational Platform

the Covid-19 pandemic
signified evolution of
the e-me platform

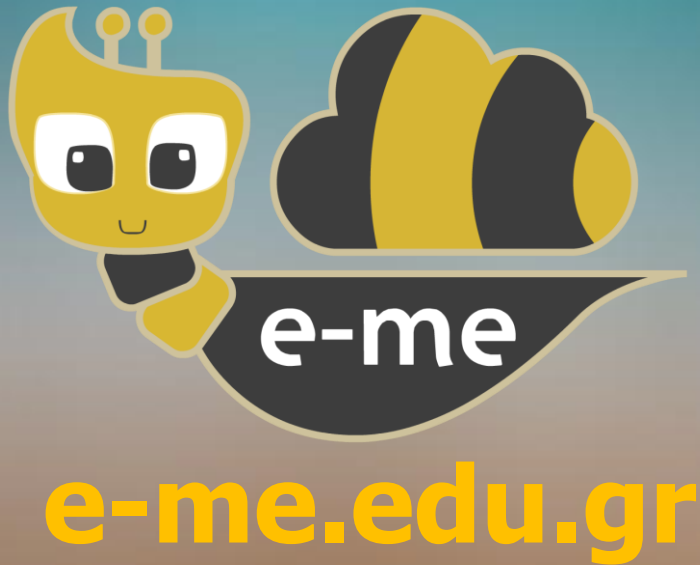
e-me is now a mature
platform with >650.000
users and 3 installations

e-me will support Open
Educational Communities
of Practice in the National
teachers' training program
on ICT

European e-me edition is
going to be used on a pilot
basis in schools in 7
countries

e-me next: to support formal, informal and
non-formal learning in the meta-covid era

Thank you!



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EDULEARN₂₂

14th annual International
Conference on Education and
New Learning Technologies

Palma de Mallorca (Spain)
4th - 6th of July, 2022