



Palestinian Ministry of Education
and Higher Education



E-learning and OER Palestina

A cooperation between Belgian Technical Cooperation (BTC)

MoEHE Palestina

KlasCement (Ministry of Education Flanders, Belgium)

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#educaid



Palestinian Ministry of Education
and Higher Education



BTC PALESTINIAN TERRITORY

E-learning project

E-learning curriculum in Palestinian Primary and Secondary Education

funded by

**THE BELGIAN
DEVELOPMENT COOPERATION**



Context

Education in Palestine

- 1.2 million students (*one third of the society*)
- Very young population
- 3,000 schools
- High enrollment figures (*97% NER in primary education*)
- Challenging environment

Ongoing transformation of education

- Quality
- Leave no child behind (accessibility & Inclusiveness)
- Relevance

Project objective

Introduce ICT in 288 pilot schools to enhance student-centered learning and to allow Palestinian students to acquire 21st Century Skills



ICT as an enabler for student-centered learning

E-learning and ICT were not a goal in itself, but a means to

- Improve quality of teaching and learning
- Increase Accessibility & Inclusiveness
- Enhance student-centered learning
- Allow students to acquire 21st Century Skills
critical thinking, learning to learn, problem solving, global citizenship, digital literacy, ...
- Support a new way of teaching

Target groups

- Students (age 10 to 15)
- Teachers
- 288 schools
- Ministry of Education and Education District Offices

A photograph of two young men in a dimly lit room, possibly a classroom or lab. They are both looking intently at a laptop screen. The man on the left is wearing a dark jacket over a patterned shirt. The man on the right is wearing a blue denim jacket over a dark t-shirt. The background is dark and out of focus, with some papers visible on a shelf to the right.

**If education is a chemical reaction,
ICT@E would be the catalyst**



Comprehensive approach

School-Led
Initiatives (R1)

Teacher Portal
(R2)

**Student-Centered
Learning**

Teacher Training
(R3)

Action Research
& Policy advice
(R4)

Piloting educational innovation

robotics for STEM, digital whiteboards, mobile apps, tablets



School-Led Initiatives (R1)

288 schools participated

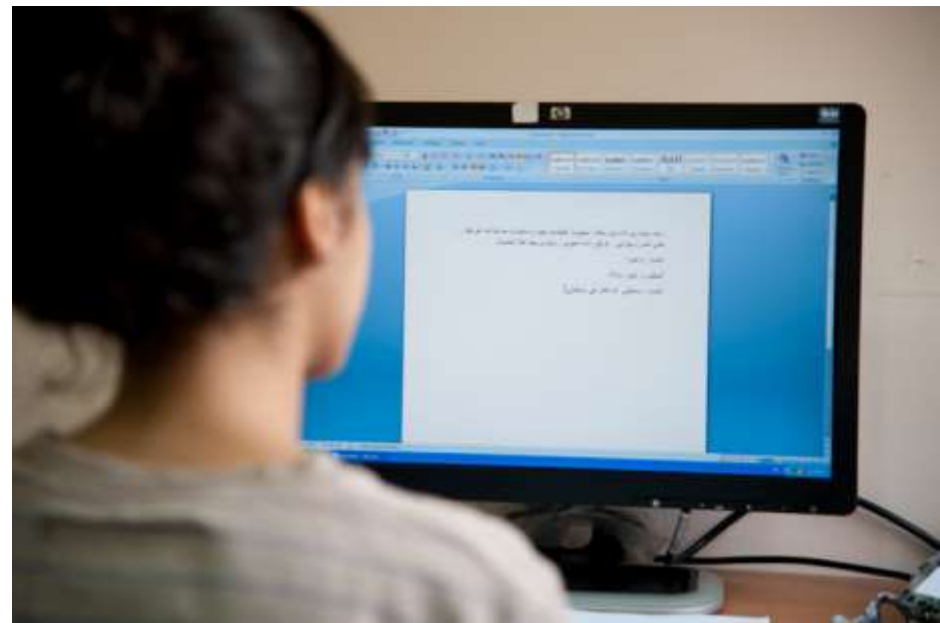
(Geographical hubs – Accessible to all schools)

Competitive fund for ICT equipment for schools (Marginalized & hard to reach schools)

- Bottom-up approach : schools defined own ICT needs

Teachers creating Learning Objects

- Teachers developed Learning Objects using ICT
- Accessible Learning Objects to all teachers
- Surf on enthusiasm of early appliers (champions)
- End of project: 1,600 learning objects developed and uploaded to teacher portal



Digital Teacher Portal to connect teachers (R2)

- Platform where teachers share learning objects with each other (*peer-to-peer*)
- Attractive interface and design
- Developed and hosted by MoEHE
- Partnership with KlasCement (*Flemish teacher portal*)
- Big promotional campaign in 2016 gave boost



See: www.elearn.edu.ps

Teacher Training (R3)

- Over 1,200 teachers trained on how to use ICT in education
- Focus on the teacher as a facilitator in the learning process
- Training manual developed
- High quality training (raising the bar)
- Excellent ownership by MoEHE
- Training is now being scaled up to 14,000 teachers



Piloting innovation *(1 of 2)*

Mobile Learning

- Use of tablets in education piloted in 15 schools
- Teacher training for 53 schools on innovative teaching methods making use of tablets in learning



Digital whiteboards were piloted in 15 schools

Mobile Applications

- 475 students developed mobile applications
- 25 ministry staff trained as trainer (ToT)
- Mobile apps exhibited at annual technology fair for students



Piloting innovation *(2 of 2)*

Robotics for STEM education

Science, Technology, Engineering & Mathematics

- LEGO robotics were provided to 12 schools
- Training manual developed
- Teacher Training for use of Robotics in education (Regional TOT)
- Very positive outcomes on
 - student-centered learning
 - teacher and student motivation
- Scaling-up to other schools (hubs)



Learning from pilots: Action Research & upstream policy advice (R4)

Exhibitions of School Initiatives & Peer-to-Peer Workshops

Intensive monitoring & evaluation
of pilots

- Annual exhibitions
- Project monitoring
- KAP survey (*Knowledge, practices and attitudes*)
- Large Action Research capitalizing on project pilots (Future Cafe)

Upstream policy advice: 6 Policy Papers
to fuel the Palestinian policy on
digitization in education

Findings also relevant for other countries



In short

- Successful pioneer and promotor for digitisation in education
- Comprehensive approach – A combination of

Content

Technology

Education for All (Accessibility & Inclusiveness)

Teacher training

Collaborative work

Monitoring and Learning

Policy driven

Bottom-up approach - flexibility

- Full ownership by MoEHE
- Good sustainability – Activities continued by MoEHE
- Strong partnership between Palestine & Belgium

Way forward

- Keep the momentum ...
- Awareness within & outside Palestine on project achievements and outcomes
- ICT as a tool that enables education to unite the nation, increase inclusiveness & maximize accessibility (teachers and students)
- Creation of PPP model for relevance and sustainability
- Further integration of approach within national plans, budgets and programmes
- Keep investing in digitisation and innovation in education (games, STEM, ...)





**Open
Educational
Resources**

KlasCement: OER Network

- www.klascement.net
- More than 100 000 members.
More than 70 000 teachers in Flanders are member
Almost 50% of teachers in primary, sec. & special educ.
- Almost 50 000 learning resources (most of them **Open Educational Resources**, Creative Commons license)
- Team of ± 10 validators (part-time teachers) checking metadata, mistakes, copyright
- Part of Ministry of Education in Flanders



WHY? 13 reasons why an OER Network is one of the best investments for education

- Teachers win **time**
- Teachers see, use and reuse **good practices**
- Part of **professional development**
- **Inspiration** for new lessons or new learning methods
- Good examples for **teacher training**
- **Networking**: *Learning resource network*
- **OER**: Open content – free for all!
- Part of **IT-strategy** to digitise schools
- **Innovation** of education
- Possibility to create **connection** with other portals and content from other organisations
- One **central point** to start - Single sign-on
- Better **communication** with teachers
- **Ministry** can share content and information

Cooperation BTC - KlasCement

- We were on a mission of one year
- Five visits of a week:
 - Presenting everyone and the projects
Inspiring Palestinian MoE & decision makers & vice versa
 - Visit focused on validation
 - Visit focused on technical issues:
server, code, documentation, safety
 - Wrap up and final advice
 - Conference to present results (2 day visit)

Validation - Advice

*"The **user** is the **content**"*

- Content
 - It's what teachers need!
 - Validation to find content more easily and avoid copyright problems
 - No validation on pedagogical usefulness. Trust teachers! Trust your community!
- User
 - List of users with search engine
 - User profile with activity on portal

Validation - Results

- A lot of learning resources were already approved and others are ready for approval
- PEOPLE: Validation coordinator (0,5 FTE)
Validation team: 16 teachers (voluntarily)
+ 16 supervisors
- Reduce the workload of supervisors
Give teachers time to validate (15% per week),
hardware and internet support (at home)
- Goal: Validation of new content within two weeks

Coding / Design / Technical - Advice

- Coding / Content: Easy to find
 - A good and fast **search engine** is crucial
 - But it can't work without good **metadata**:
 - keywords
 - vocabularies
- Interface / Design: Easy to use
 - Demonstrate the portal in schools to see how teachers use it
 - Listen to the users
 - Log every action > Statistics

Coding / Design / Technical - Results

- Attractive new interface and design
- PEOPLE for development within the MoE
 - Technical coordinator (0,2 FTE)
 - Two developers (2 FTE)
 - One server manager (0,2 FTE)
- Training of developers in PHP & Drupal
- Time to study the code, to document, to debug, ...
- Don't overestimate capacity of the team
(eg. mobile app)

Engagement - Advice

- Ownership: It's YOUR site
 - Bottom-up
 - Horizontal (same level)
- User engagement
 - Activate inactive users
 - Stimulate to rate, comment, share, ...
- Gamification
 - Points
 - Tips & tricks
- Keep it simple!

Promotion - Advice

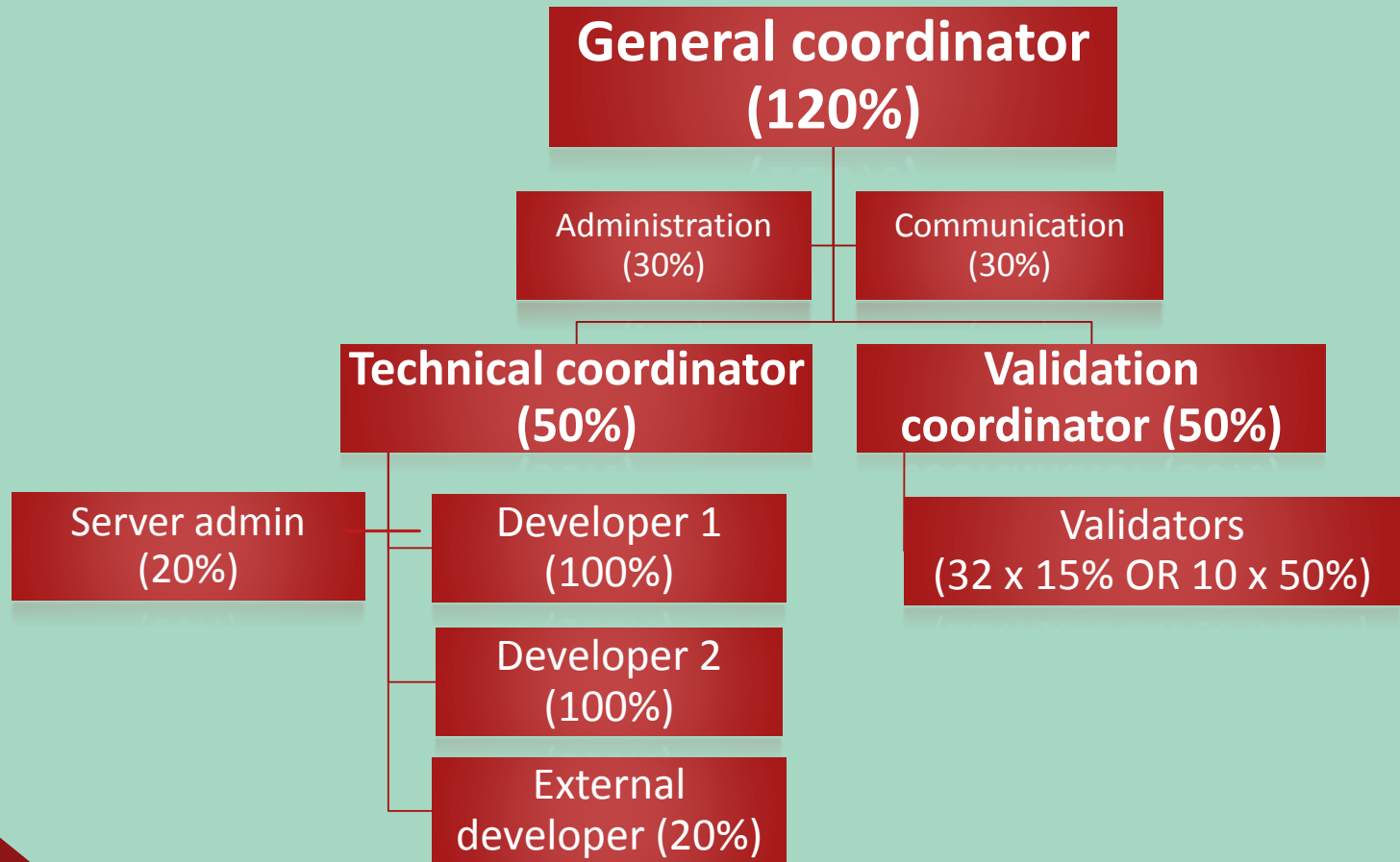
- Training about writing for the web
- Communication via newsletters
 - with members
 - with future members
- Educational fairs
- Promo campaign (if budget)
- PEOPLE: PR manager (0,6 FTE)

IMPORTANT CONDITIONS FOR HAVING **CONTENT** / OER

- **Technology**
 - Good infrastructure in schools and at home
 - Good Wi-Fi connectivity
- **Pedagogy / Knowledge**
 - Teacher Training for all teachers in 'How to use ICT in the class room?'

Elearning Portal Palestine

ADVICE: TEAM – A NEW UNIT



Some numbers

elearn.edu.ps

- 5 400 Learning Objects uploaded
(1 600 end of project)
- 31 200 active users
(6 500 end of project)
- More than 3.5 million hits
(downloading & uploading e-lessons)



١٩٣٥,٩٣

عدد مرات الوصول

البوابة التعليمية الالكترونية

نحو تعليم الكتروني تفاعلي مبدع



تسجيل الخروج

حسابي

الإحصائيات

الشبكات المجتمعية

المصادر التعليمية

عن المشروع

الرئيسية



ابحث

معلماتنا الفاضلات، معلمونا الأفاضل،

للدخول الى البوابة نرجو من حضراتكم استخدام رقم هويتكم الشخصية كإسم مستخدم و كلمة مرور. في حال واجهتكم أي مشكلة في استخدام البوابة بإمكانكم ارسال رسالة على البريد الالكتروني :
pal.elearn@gmail.com او الاتصال على هاتف رقم: ٢٢٩٨٣٢٧٠.

اخر الاخبار

- ورشة عمل حول الحملة الترويجية للبوابة التعليمية الالكترونية
٢٠١٧، ٤٧ - ٢٠١٥ - ٢٠١٤
- وزارة التربية تطلق دليل التعليم الإلكتروني
٢٠١٣، ٢٦ - ٢٠١٤ - ٢٠١٢
- "القدس المفتوحة" و"قبرص المفتوحة" تفتتحان ورشة ضمن مشروع البحث الإجرائي
٢٠١٣، ٣٣ - ٢٠١٤ - ٢٠١٨

المزيد +

مختارات من البوابة

- وزارة التربية والتعليم
٢٠١٥/٢٥ - ١٤٠١
- learn clock تعلم الساعة
٢٠١٥/٢٥ - ١٤٠٣
- learn body parts تعلم اجزاء الجسم
٢٠١٥/٢٥ - ١٤٠٦

مرحباً klacement
صفحتي الشخصية

عناصر مميزة

مصادر جديدة للمعلمين

■ أوضاع متواري المستطيلات