



ICT in Education A good practice notebook

This text is the result of an Erasmus+ project, transectorial, designated: "21st Century European Classrooms: meeting the challenge of the digital era with Innovation and Creativity". The project started on 1st September 2014. It was coordinated by the Agrupamento de Escolas de Atouguia da Baleia (Portugal) and had as partners the "Fundação Calouste Gulbenkian (Portugal), the "Miejskle Gimnazjum nr 1 im. Jana Pawla II z siedziba w Knurowie" (Poland), the "IIS Vittorio Emanuele II" (Italy), the "IES Las Banderas" (Spain), the "SOUEE Konstantin-Kiril Filosof" and Promethean Limited.

This is a presentation in context of some of the good practices founded during the project and represents an open document to be added with more testimonials of good practices presented by educational institutions or other stakeholders wanting to share them with the European public.







Project Presentation

We've build a partnership asking different kinds of institutions. We've thought that diversity would be one asset to get the perspectives of different kinds of schools.



The samples of good practices gathered in this notebook are in daily use in 4 schools in 4 different countries, Poland, Portugal, Spain and Italy. Those schools are quite different among them, in terms of size and context, even in educational project. The age of students and the interest in the use of information and communication technologies inside the classroom (and generally inside school) is however common and links the group.

We believe that would be important to create diverse background samples for good practices, in different levels of interaction with digital technology so every school around the world could relate to some of those practices and enabling them to profit from the presented experience, even if the context conditions are far from the ideal, because of economic, social or other restraints.

Every school is different, and every good practice must be seen as working in that specific context. The generalization of the presented practices only would be adequate to other schools with different identities with strategic adjustments. The general idea is to get starting points and showing tested and assessed practices to other schools and educational stakeholders.





A.1

The importance of the stakeholders: the role of "Promethean" and the role of "Fundação Calouste Gulbenkian"







In fact, although in the building of the project partnership process the quest for the best schools in different European countries, regarding the use of ICT in school/classroom, have been a priority, we were aware that had also to be conscientious of other conditions and interests on behalf of the school partners. All the partner schools were chosen for having showed a big interest in this matters of good practices with ICT, also giving proof of having tradition and evidences of successful work in the issues to be addressed and a praxis in sharing experiences.

In this notebook, the role of the non-school partners was also to provide a wider debate on those good practices and to get training and exogenous assessment. Having on board partners with such an experience and broad horizons on education and cutting-edge technology and pedagogy, has given us the audacity to grow in practices along the project duration.

The non-school partners' insight provided us with different approaches from more global perspectives and altering the usual horizon that usually capture the regards and the debate while inside school actors.

Each partner does not, and could not represent the origin country status quo on the use of ICT in school or classroom, but still it's a sample.

Different departure points by the different partners mean different levels of good practices. Having said that, also all partners had different the starting characteristics different initial and conditions, establishing a diversity that we felt as healthier and that could be related to the also diverse reality of schools thru out Europe.

When we went in this project we were not seeking for one model or one way of solving problems, because obviously each school has their specific characteristics and context, as well as different problems and resources. So, if we want to share good practices we need to get more diversity on the sample school, so we can get the message to the diversity of schools and stakeholders that eventually would read this notebook.



A.2

The importance of context

Every school is conditioned by its context. Sometimes have the means and/or the capacity to influence and drive the change in that context, but in one way or another, that context creates dynamics inside and all around the school that can determine responses and also force specific approaches and strategies as well as the need to adjust solutions and school can't ideas. Α pedagogical island, because it is not isolated, couldn't be isolated, from that specific society, that specific time and that specific human, economic, financial and cultural resources of that unique reality where the school belongs. The school can bring change to the context where it intervenes, but it's also a daughter of that given context.

A good practice can only be considered a true good practice when reporting/referring to a given specific context, and in a different context could not be so.

We are aware of the weight of the context, therefore we must always relativize the specific good practices evidenced. We can only say that that practice works in that context. A reader from another school, another moment or in another context, always has to adjust and to adapt, because good practices are not universal formulas for success. They just intend to show a way, to present an idea... To say that if we can do it, so can you.



A.3

The importance of infrastructure like internet capability

Given the weight of telecommunications, namely internet, in the context of ICT inside school and classrooms, in order to insure the availability of resources it's fundamental that the infrastructure wideness and range of internet capability would be in line with the needs of access, both in number as in weight.

A technical failure based on a handicapped planning, counting with a non-existent or less efficient internet capability just kills any strategy of use of software or devices or communicational dynamics based in the immense potential of wearable information made available by such of technology.

The failure of a planned strategy developed in a classroom because of a deficit in the readiness of the infrastructure can and will represent a big setback in the dissemination of the awareness of the added value represented by those technological tools.



If a teacher can't develop or organize the dynamics of a class because he couldn't relay on the internet infrastructure or if the devices, for some reason, are not ready or if the software is not updated or dependable, then it's the return to a mistrust position and the return to comfort zone of the analogical class, losing the potential of the new resources and approaches.

A.4

The technology as a tool that allows taking another step on pedagogy

The most marvellous and updated communicational technology in your classroom can be just a very expensive piece of furniture if you don't use it in a pedagogical strategic, innovative and creative approach.

The technology itself only brings added value to school if we face it like a very important and useful tool to include in the pedagogical innovation and creativity. The ICT inside school allows you to enlarge the horizon of possibilities and to more easily relate it with the digital language natives represented by your students.

The pedagogical space gets a different dimension because you can interact with your students even if they are outside the specific classroom, you can get instant feedback on task progression or assessment, you can access to huge amounts of information, where your task gets an important component in coordinating the selection of information, by criteria of relevance, significance, reliability or...

Cooperative learning and/or flipped classroom assume a possibility with the assumption by the teacher and students of different roles, more in line with the new challenges provided by the 21st century.

The digital world approach in school and in the classroom is really the approach to our society and our students' languages. That's about building or reinforcing the bridges between school community, about narrowing the gap in communication, in interest and in understanding among the school community by using common referentials speaking understandable an dialect/communicational methodology.







A.5 The importance of assessment

Empirically we can establish some degree of success for our classroom ICT strategies. We can also say that the good practice is the one that works for us and for our classes and our students. But still, the measure of success and the reliability of our options are very important to establish and plan improvement and for getting adjustments aiming to accomplish a higher degree of success.

So, it's very important to create a systematic assessment structure, enabling positive change and clear options. ICT allows you, in your classroom and in your school, to launch several and almost complete assessment interventions on your students work, on your own work, on your institution, on every aspect of education and to usually get instant response, enabling you to constant ability to adjust and redirect your strategy.

A.6 The progression / evolution during the project

The schools that have begun this project are very far from the schools that are now presenting this notebook. The whole process of interaction, debate, study, reflection and attentive assessment of the good practices, along with the intense sharing of good (and sometimes even the bad) experiences, have allowed every partner to pedagogically reinforce their experiences or to build new dynamics of intervention.

The results of the impact of this kind of project in partner schools are a continuous growing of material quality in the production of students and teachers' materials, and on the enlargement of the subjects involved in ICT dynamics. The digital world inside classrooms of the partner schools is now matching the role of the digital presence in society context.

The gaps among the level of digital incorporation in classes, between the different school partners are getting smaller and smaller, and we are witnessing an exponential improvement of the institutions that initially were less proficient or more peripheral on the use of ICT in classroom or school.

That's an achievement for the project and a clear evidence of the importance of sharing good practices among partners or among educational communities. And that's what this notebook is all about.



B

A conceptual guideline set

The template structure – what we need to acknowledge that a given practice is indeed a good practice that should be a part of this good practices notebook.



To deliver accurately the information about good practices among the project partners, related to the topics addressed in each chapter, we've tried to create a template that would give the reader the possibility of understanding the context conditions that explain the level of interaction of that specific school with the digital use of technology in education.

This template identifies the partner institution for each chapter, also enables some guidelines for theoretical approach and concept. There will be some pertinent context references concerning the main issue. The main core of the template, obviously, will be the good practices identification, justifying why they were selected (mainly because in that given context they work and/or they present better results than other practices) explaining the process, identifying the departure point, the assessment and impact in school and/or community. Whenever possible there will be a "next step"... presenting the future and addressing the problems to overcome.





B.1 Notebook Chapters



Chapter 1

Future Classroom: creativity and innovation;

Chapter 2

Effective Communication and successful learning and teaching;

Chapter 3

Internet and Web tools in the 21st century education;

Chapter 4

Future Classroom: students' evaluation system;

Chapter 5

Digital Literacy on students and teachers;

Chapter 6

Interactive Pedagogy: the use of educational aimed tools.

Frequently today's teachers confronted with mastering the huge amount of digital skills and simultaneously also challenged by the need to be updated and to be innovative and creative in a world where the digital format constitutes an indispensable bridge towards the day by day reality of the students. The idea is to reinforce digital bridges of communication in a learning and teaching context, seeking to perform good practices concerning strategies and tools that can be of use and help, both for students and teachers, in the classrooms or more broadly in the school, understood as an open space of learning teaching meaningful and experiences.

To keep up with the ICT dynamics and to use them adequately in classroom context it's a challenge where the schools are always a bit late. Being conscientious of such a gap, nevertheless the schools can't afford to stand still or too late. So this project is about students and teachers around Europe, in several and diverse contexts and with plural ways of relate with ICT technologies in different kinds of classrooms, gathering experiences different ways of dealing with challenges mentioned above, defining and assuming good practices and creating school dynamics that facilitate overcoming some difficulties or problem situations regarding the digital era and the needs to obtain better performance by the European classrooms in the 21st century.

This project departs from the assumed need of diminishing the gap between the digital use of technology inside and outside the School and also the need to be creative and innovative by using digital tools and strategies incorporating ICT techniques. Teachers are fundamental to potentiate the evolution needed towards the future classroom.



B.2 Main goals for the notebook project



We intend to have some significant and practical output regarding the improvement of procedures management the classroom. We feel that this project can help to explore alternative towards teaching and learning studying different learning scenarios across Europe.

By acting upon the students' autonomy and enhancing their critic and cooperating skills, we think that we may obtain new ways of interactive performance, aiming to improve their results (academic and personal/civic).

We perspective the innovation and creativity of this project, by exchanging and creating new pedagogical materials as well as devising new strategies of articulation in the dynamics of the classroom.

We are aiming to re-think new ways to revisit educational/traditional spaces, like classrooms and school libraries, introducing ideas and concepts to accommodate notions like open space classes, and multi space teaching, as eventually compatible with the digital cloud of information/resources.

We must underline the importance of the learning rhythm provided by the innovative and creative use of ICT, and the role that effective and a more speedy evaluation of the management of the tasks and skills and their progress may represent using new tools and techniques.

In fact, the evaluation action, performed by teachers and students in several ways, in line with the rhythm of the learning needs and progresses, may be one of the most important issues to address using new techniques, tools and strategies.

We think that our approach may be innovative to obtain and establish a good practices platform for the learning and teaching actors reaching over the technological gap that so often exists between the digital world outside the school walls, out of the classroom, and the interpretation of the use of ICT by teachers, sometimes turning outdated innovative tools by managing them in an obsolete way.

We want also to learn about the students expectations about the ICT use in classroom and about the way they are used as learning and teaching resource (not only in a strict communicational sense).

We seek to establish a good practices platform to help learning and teaching actors to more easily use ICT as a resource, mainly regarding the accessibility problems or advantages, the selection of information, the language, etc. Bottom line, how does the ICT help you to make better or different on matter of education.





Our schools and in our classes we must to be able to keep amazing our students and teachers about learning teaching. Improving and exchanging good practices and building new dynamics for classroom in an ICT and digital context, allows students and the transversal nature stated by this project goals, both for students and for teachers, creates a greater impact dimension for the wanted results at the end of the projects. As curriculum concerns, this transversal approach on digital and ICT impacts in wider range of subjects, ages, themes and classes.

project had This also fundamental goals, not only exchange of experiences, building and sharing of good practices, improvement and pedagogical materials product in, but also the need for the teacher around Europe debate and develop awareness on needed and taken in different schools, about the theme of this project, with different backgrounds and different kind of solutions or ways to deal with sometimes similar problems. This space of debate and exchange of ideas and innovative projects, among teacher, innovative seeking for classroom management, appealing to ICT resources and strategies

would be held by the physical presence in meetings around the partners countries, having the support of the know-how and experience of a partner like the Fundação Calouste Gulbenkian.

There's are also other collateral goals intended by this project, such as the joined investigation on subjects concerning the mainstream underlined title, this project regarding education, ICT and pedagogy, the production of materials to spread de debates and the good practices awareness, departing from the partner countries and sharing with others, using ICT ways.





B.3 Partner School Contexts



This notebook is about presenting and exchanging innovative projects among the partners, to eventual sharing activities with the other teacher around Europe, seeking an innovative management of the psychopedagogical classroom, appealing to ICT resources, tools and strategies. It's all about experiences exchange aiming for the improvement in classroom work, objectifying strong and weak point in the use of the digital ways in class.



B.3.1 Partner School Contexts

PROJECT COORDINATOR and School Partner: "AE de Atouguia da Baleia (Peniche -Portugal)

The School of Atouquia da Baleia is the leader of a cluster with 16 several ranked schools, counting with more than 1100 students. Situated in the west of Portugal, at about 80 km north of Lisbon. The School has clearly inscribed, in its educative project, as a main axe for the next years, the investment on developing the uses and appliances of the digital world and communications within the classrooms and learning opportunities for students, as well as training investment for teachers. Aged between 10 till 15 years old, the students at the leader school of this group, are skilled at the use of ICT.

The school staff is composed by over 80 teachers and 30 auxiliary personnel. Since 2013 this institution has pedagogical autonomy granted by the Ministry of Education and Science of Portugal, and since then they are creating specific curricula and enhancing changes and using this autonomy to improve several sectors inside the institution, supported by the community and starting to get results in the school dynamics and students' results.



The School of Atouguia da Baleia has a solid tradition in the use of information and communication technologies among the educative community and above all in use inside the classroom and in learning and teaching dynamics. Recently we have established links with institutions of ICT research and development, in order to become more update on educational appliances.

So, we can say that in the end they think they are an educational community that rather frequently uses mobile technology as a basis to the learning and teaching process in articulation with the global world and using and taking advantage of their learning situations.

Taking an effort to walk to the future classroom they've obtained the recent support of the Fundação Calouste Gulbenkian financing a project to build a maths and sciences lab based on mobile and high-tech equipment as well as teacher's specific training.

They also have been joining efforts with the global educational company "Promethean" (interactive education technology for schools) testing hardware and software for education in real classrooms.

B.3.2 Partner School Contexts

School Partner: "Miejskie Gimnazjum nr 1 im. Jana Pawla Il z siedziba w Knurowie (Knurow - Poland)

The school is located in Knurów. It has 133 students, 18 teachers and 5 service workers. The school is for students aged 13 to 16. In the Polish educational system it is the third stage of general education. The school prepares students to learn in high schools and vocational schools where they achieve average results.

In our school about 30% of the students need help in learning, but also about 20% requires assistance in the development of their talents and interests. There's a system of monitoring current teaching results which are analyzed quantitatively and qualitatively. The results of the final examination show the quality of the work of the school and they are very important.

The aim of the school is to improve educational outcomes, especially in maths and science that are the most difficult for students. It is also important to raise students' motivation to learn by using ICT skills and increase the professionalism of teachers in ICT area too. It will help to make the lessons more attractive and involving.

Teachers usually use ICT almost every day. In addition to that, they use an electronic register to monitor students' attendance and communicate with their parents. Teachers of foreign languages (English and German) as well as a history teacher, they use interactive whiteboards with. The school has two classrooms equipped with desktop PCs (including 36 computers), interactive whiteboards, multimedia projectors, but not teachers use them. There is a specific need to engage them in the process of modernization of working methods with the use of ICT among teachers of maths and science.





B.3.3 Partner School Contexts



"Only a part of our teachers use virtual classrooms and interactive whiteboard in their daily teaching. The rest of the staff goes on using traditional teaching methodology."



School Partner: "IIS Vittorio Emanuele II" (Naples - Italy)

I.I.S. V. Emanuele II is a technical and vocational school with three different year courses, one based administration, marketing and languages, one based on ICT commercial promotion and advertising and the third one based on social studies. The school population is approximately of 800 students, of which 32 are in the condition of disability. There are 100 teachers. The school is equipped with four computer labs, a science lab, two large gymnasiums and outdoor sports spaces, which allow a number of extracurricular optional activities.

The bulk of students at I.I.S V. Emanuele (aged 14 to 20) come from a working-class environment, which has traditionally suffered from a lack in opportunity in southern Italy.

The institute operates in an area with a high socio-economic disadvantage and at high risk of drop-out. The percentage of non- admitted to the next class is about 30%, while the percentage of drop-out, formalized or not, is 15%, and the school represents the only real opportunity for growth and practice of active citizenship.

In the last years "Vittorio Emanuele II" Institute, thanks to government/EU funds, is completely renewing its digital equipment (Wireless, Internet connection, computers and IWB in each classroom, modern multimedia labs, etc.). The Institute has been a teacher training center for "DIDATEC" a national program whose purpose is to spread the use of technology among teachers.



B.3.4 Partner School Contexts



"Our school use technologies in every lesson and subject. First of all, all our classrooms have got a digital board. Every teacher uses it to show the students power points (...) and they are also very useful to use Internet.

Our experience makes us to be eager to go on learning new technologies and how to use them with our students."



School Partner: "IES LAS BANDERAS" (Puerto Santa Maria - Spain)

IES LAS BANDERAS is a public school of Secondary Education, placed in El Puerto de Santa Maria, Cádiz, in the South of Spain.

In the previous years the school was dedicated to primary education, but now it covers from 12-15 years old students.

This year has got approximately 125 students distributed in four levels (1° ESO-4° ESO). In general, they belong to middle-class.

The school has got two main projects, among others:

- The bilingual project: it belongs to the bilingual project since 2009. It means that subjects such as Geography, History, Maths, Art and P.E. are taught in L2 (English language).
- Tech-school (in Spanish Escuela TIC): It means that we use technologies in many aspects of our teaching labour and we encourage students to use them as much as possible.

We use several techniques to encourage our students and to store all their production in L2. On one hand, we have created a web in the Moodle platform through which students can send us all the projects related to any topic they are studying.

On the other hand, we use Google Drive to work with them the E-Portfolio. We have created personal files to store all the students work and when they finish the year we give them a kind of "passport" where they can see the level they have reached. This practice motivates them a lot.

So, we can say, that I.E.S. Las Banderas has got big experience in using technologies in our daily work in education.



B.3.5 Partner School Contexts



"From the teachers' point of view, this is a very good opportunity to get input from other European teaching traditions, share good practice and broaden the horizon with new teaching skills. To bring home best practice from so many different European countries will be a unique chance. Our aim is to help our students on their way to develop their language and computer skills as well as to become openminded, self-confident people without prejudices toward foreign cultures and lifestyles. Although we use interactive activities during the lessons, we still miss good practices in this area.

Today, much success lies in being able to communicate, share, and use information to solve complex problems, in being able to adapt and innovate in response to new demands and changing circumstances, in being able to command and expand the power of technology to create new knowledge".



School Partner: "SOUEE "Konstantin-Kiril Filosof" (Ruse - Bulgaria)

The Secondary School with the Study of European Languages "St Constantin-Cyril the Philosopher' is located in the town of Ruse, the biggest Bulgarian town on the River Danube. The school was founded in 1961 and it is a public secondary language school.

English, German, French, Spanish and Russian are taught in it. About 1500 students study at the school.

The school successfully combines the mastering of foreign languages with basic computer literacy and IT competence.

The children are mostly from Ruse but there is a significant number who commute every day or live in the town without their parents. These have different backgrounds and interests.

The staff is highly experienced and the majority of the students are very intelligent, creative as well as motivated to gain more knowledge.

Nevertheless, there are some students that think of school only as a source of fun or place for meeting friends. It would be really essential to involve them into project work and show them the importance of being highly educated and ambitious.

The students aged 15-18 will take part in this Multilateral Project. This will give them the chance to join and be part of extracurricular activities resulting from the project as well as to grow more interested in curricular subjects related to the project development. Thus, we hope the students will develop their understanding of otherness and that in the digital era they could become not only knowledgeable but more tolerant and democratic citizens. In addition, students of poor families will also get the chance to travel.



Chapter One

Future Classroom: creativity and innovation







We will not lose ourselves in the debate, eventually very important, on what do we call "future classroom", because is about something that's already here, not in the future, but now. At least now for some of us, not for others, because our contexts and structures are different, as different are our society demands and expectations. So for us, the future classroom might be the school knowledge place where the most recent learning scenarios are in place articulating with pedagogical approaches that use the advantages of the technology and of the science advances to get a better education for our students. It's the place in schools where the innovation and creativity should be more stimulated and where the most advanced notions of education are putted in place to get the best results for educational goals.





C.1.1

"Without world-class support, resources and real-world knowledge from an extraordinary network of users, technology is only hardware and software. We believe in the power of relationships and the exchange of knowledge that results from collaboration. After all, the best ideas often grow from many minds sharing and working together."

The future classroom has to be a place that nourishes creativity and that's also a "room" for innovation. Pedagogical innovation, renewed interaction dynamics, strong competences on presentation and exchanging ideas and thoughts... a place to be happy and to learn and share at the speed of the brain.

But... The future classroom starts now, starts today and each day for each student and each teacher. So what do we think for today's future classroom? What's the innovational end creativity dimension that we can start pointing as a school dynamic into to near future in each partner school of this project?

So, getting out of the way the conceptual "thing". We will try to explain for our readers what a future classroom is, for each school partner of this project, hopefully using creativity and innovation in that scenario. We've tried to show what do we think that can be the future dynamics inside classroom that we've already started in our schools.















Chapter 1 - Creativity and innovation LINKS (Videos and other presentations)

http://www.21digitalclass.com/partnerpresentations-1.html

Bulgaria

http://prezi.com/z70c1tkge2bz/?utm campaign=share&utm medi um=copy&rc=ex0share - PREZI (teachers presentation)

https://www.youtube.com/watch?v=9TLhv0tdzxU - Video
(presentation of the school)

Spain

https://www.youtube.com/watch?v=7h5ZswcVBIk - Video (presentation of the school)

Portugal

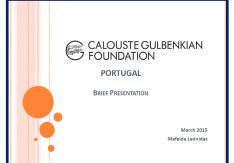
https://www.youtube.com/watch?v=bONbEcEiMZ0 - Video
(presentation of the school)

Italy

https://www.youtube.com/watch?v=nmAt x57X60 - Video
(presentation of the school)

Poland

https://www.youtube.com/watch?v=ouEaxG7G7mg - Video
(presentation of the school)



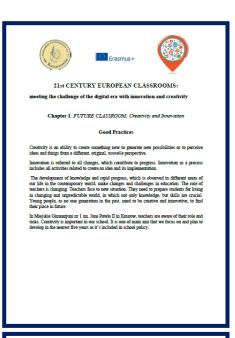




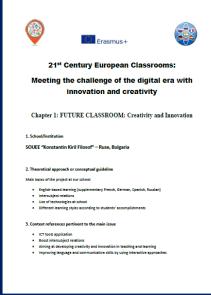


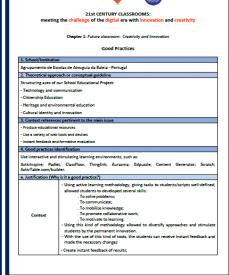
Good Practices Description by Partner School















C2

Chapter Two

Effective Communication and Successful learning and teaching.



A major issue for a teaching and learning successful process is to render the communication effective. That means that the quality of the communication, as well as the language, the channels, the understanding of the participants is fundamental to get things done in matter of education.

The digital language can't stand outside our schools as if it was a lesser way of communication, not wordy of the school universe. The digital language is the language of our students and using it inside our classes is narrowing the gap between school and the 21st century. Usually the School, namely the teachers, have entered the new millennium in a delay facing the challenges that the communication and technological revolution as set in motion. Most schools still stand analogical in a digital Era, dealing with digital native students.





C.2.1

Do we think that we, as teachers and educators, can remain/endure just as knowledge dispensers, or we strategically embrace the different roles (coordination, organization, motivation...) suggested by the needs of a more effective communication?

The school, thru times was all about communication, getting that communication as effective as it can be, has been the basis to develop knowledge and education. The quality jump that our generation of teacher is witnessing, regarding the reinforcement of the communication role in our society, has created the ultimate challenge to our profession... To evolve and adjust or to be just a by stander to the dynamics in place.















Chapter 2 – Effective communication LINKS (Videos and other presentations)

http://www.21digitalclass.com/partnerpresentations-2.html

Bulgaria

https://www.youtube.com/watch?v=Tcl-rYml1I&feature=youtu.be - Video - Presentation of Ruse

Spain

http://prezi.com/7viopdhoyzdj/?utm_campaign=share&utm_medi um=copy&rc=ex0share - Teachers presentation (Prezi)

http://prezi.com/pqjyulisjc1/?utm campaign=share&utm medium=copy&rc=ex0share
- Students presentation

Portugal

http://ai2.appinventor.mit.edu/?galleryId=6272144479617024 - Student's App about Portugal

http://ai2.appinventor.mit.edu/?galleryId=5459068125708288 - Student's App about atb23

Italy

http://learningdesigner.org/viewer.php?uri=/shared/fid/d9784e1d efbe905084be6fcba3c8671b343bf74f357fff03b83395b6b351904a - Teachers Presentation - A visual tale: The Storyboard (Learning Designer)

https://it.padlet.com/lisasomma2015/storyboarding - Teachers Presentation - A Digital Storytelling Project: the storyboard (Padlet)

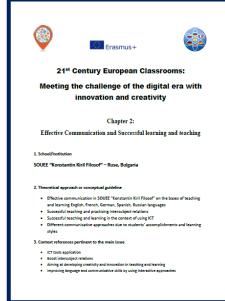




Good Practices Description by Partner School

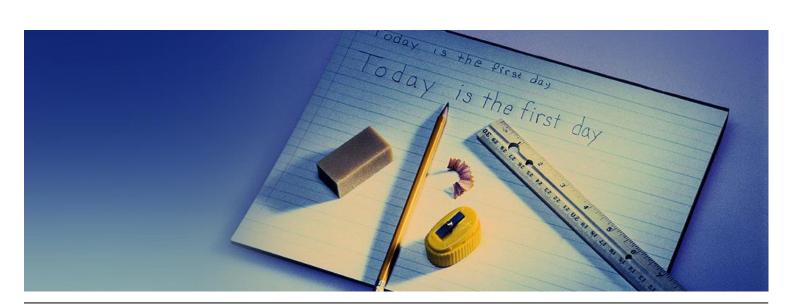














C3

Chapter Three

Internet and Web Tools in 21st century education.





Regarding this chapter, the good practices presented by "Las Banderas" school, are specifically related to the structuring axes of the Educational Project, namely: the importance of the bilingual education with a strong component of ICT in the curriculum and in the day by day practice in classroom. Also the cooperative learning and the diversity of students' levels, are fundamental conditions to understand the selected aood practices on effective communication.

There were several issues that have stimulated the development of the practices that we are going to underline, such as, the importance of sharing information with other teachers, students and parents; existence of problems in getting a successful communication using the traditional ways: ordinary mail, letters, students' diaries... Also a demanding situation was some lack of creativity in spite of technology presence in our classrooms, sometimes caused by the excess of individual work (isolation of teaching/learning process). In the other hand there was an increasing concern and adopting interest in new ways communication using ICT.





C.3.1

Mainly about sharing and understanding information between the teacher and student through an interactive exchange of messages, using the new resources, such as digital boards, but with creativity and innovation, and always from an interactive point of view: multimedia presentations using different applications



Being the IES Las Banderas a bilingual school belonging to the ICT schools net in Andalucía. This ICT project implies the use of ICT resources in daily labour and taking advantage of them in lessons.

In "Las Banderas" we were aware and understanding the tendencies of failure in a successful learning and teaching process, also we felt the discomfort of many teachers with the results. the lack students' of involvement and motivation in the daily activities with somehow natural increasing behaviour problems in classroom.

The problems that we face are the need to have different devices and a good technological infrastructure, namely problems with Internet access. Also, teachers needed an adequate training to take advantage of the different tools. But sometimes we faced also some lack of motivation and personal initiative or the reluctance of many teachers to update and introduce the new technologies in their lessons. Finally a constant problem... not enough public investment.





ERASMUS + 21st Century European Classrooms SPANISH MOBILITY - EL PUERTO DE SANTA MARIA 5th -9th OCTOBER, 2015









Chapter 3 – Internet and web tools LINKS (Students' websites and other presentations)

http://www.21digitalclass.com/partnerpresentations-3.html

Spain

https://lasbanderaserasmusplus.wordpress.com/ - Students' website

Portugal



https://www.emaze.com/@AIIRZFTL/web-tools-atouguia-da-baleia - Teachers presentation (Emaze)

<u>http://inessantosportugal.wixsite.com/atb23erasmus</u> - Inês Santos's website

http://joana20neves.wixsite.com/erasmus - Joana Neves's website

http://tecnic8dnr02.wixsite.com/erasmus - Ana Rita Ferreira's website

http://mcorreia1409.wixsite.com/erasmus - Madalena Correia's website

Italy



http://www.artcreation.it/spainapps.html - Students' website - Students' website

Poland



http://t02matuszek.wixsite.com/appofpoland - Mateusz and Tomek's website

http://jm2210.wixsite.com/astronomyandierasmus - Astronomy and me - Mateusz Malcherek's website

<u>http://t02matuszek.wixsite.com/sports-lives</u> - Sports in the world - Tomas Matuszek's website

Bulgaria



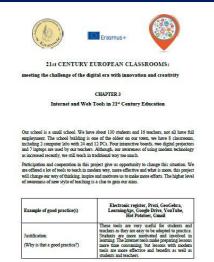


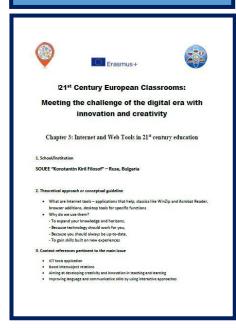
Good Practices Description by Partner School



Creating the conditions for a Future Classroom Learning Scenario
 Reinforcing digital bridges of communication, in a learning and

reemboring digital bridges or communication, in a leaf teaching concept
 Implementing strategies to motivate the study
 To help, bolster and promote students and teachers achie













C4

Chapter Four

Future Classroom: Students' evaluation system





The assessment is one of the most important tasks for the teachers and students involved in improving their learning and teaching activities. To have a clear, available, immediate information on the learning and teaching activities can make the difference and will allow teachers and students to develop adequate strategies and activities to improve their results and accomplishments.

Using ICT in assessment is one of the clearest advantages of the digital world in its articulation with the educational field. The impact immediate response, the systematic structure of assessment data gathering and the reduction of the delay on feedback of student's assessment allows the educational community participate in the improvement of the educational process.





C.4

The use of new teaching strategies as a result of using diversified technology, in the context of school, resulted in a necessary change in traditional assessment models.

We understand that evaluation in schools is a very important part of learning, and can enhance it.

Greater information and parental approach to student assessment, for enhancing their collaboration in the improvement of educational attainment.



New learning scenarios, new society demand towards school, new language, managing huge amounts of information, the existence of information highways. A new world of innovation and creativity is opened to school and education.

We can change school and education with the help of digital technologies in close interaction with new pedagogical approaches. One of the areas where that interaction knows a clearer and advanced dynamics is the assessment, mainly students' assessment.

The teacher, the student and also the parent can promote positive change or enhance improvement on activities or have a better or a clearer knowledge of the needs, week and strong points of the teaching and learning process, if the time between the assessment instrument application and the obtaining of the results and their dissemination among those who need them is getting shorter or immediate.

Diminishing the gap between the info recollection and the feedback of the results is fundamental to get a better time management of the school work, saving efforts and avoiding to keep wrong or less effective practices during that gap.

The sooner we get the feedback on assessment, the sooner we correct or act on improving. If we can do it in real time, then the effectiveness as won a big step towards a better education.







Chapter 4 – Students' Evaluation Systems LINKS (Videos and other presentations)

http://www.21digitalclass.com/partner-presentations-4.html

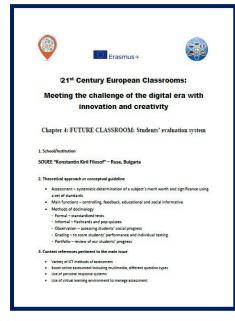
Portugal
https://www.youtube.com/watch?v=ZRzRAnEYzfY&feature=youtu.be - VIDEO "Students evaluation in 15 years" (students presentation)
Italy
https://www.youtube.com/watch?v=IYTn INPb3o&feature=youtu.be - VIDEO "Students evaluation in 15 years" (students presentation)
Poland
https://www.emaze.com/@AFCOWQOF/students-evaluation - Teachers presentation (Emaze)
https://www.youtube.com/watch?v=quzChOy2sOs&feature=youtu.be - VIDEO "Students evaluation in 15 years" (students presentation)
Ginna di Unitari
Bulgaria
https://prezi.com/smp5zimp2-mf/general-conclusions-of-the-survey/ – teachers presentation 2 - General conclusions on the survey (Prezi)
https://www.youtube.com/watch?v=2xtTpilgd7Y&feature=youtu.be - VIDEO "Students evaluation in 15 years" (students presentation)
Spain
https://www.youtube.com/watch?v=cWgOvXdzbDo&feature=youtu.be - VIDEO "Students evaluation in 15 years" (students presentation)
23
Promethean ElPuori o do Santa María
https://www.youtube.com/watch?v=Ao_G5GbGdPQ - VIDEO: "Erasmus+: 21st Century European Classrooms"
https://youtu.be/VkMtAwJKkhU?list=PLTTWdUcy0p-6d2zcPWRH9EwB1ZOkHQ4u5 - VIDEO: "Elementary School of Ferrel, Modern Classroom"
Promethean Spark inspiration.



Good Practices Description by Partner School















C5

Chapter Five

Digital Literacy on students and teachers;



Digital literacy is emerging in school and education as in important issue to address considering the specific problems raised by the information society. To be able to select information, to determine the accuracy and the reliability of the information at the disposable of a single mouse touch is a task to consider so we can free our school digital users of the dangers/risks and the missuses of the digital tools and information. New need, new possibilities raising ethical issues and new problematics in accessing to knowledge and sensible information.

To grant students and teachers the tools to deal with the digital era positively and take advantage of its potential.





New technology represents new challenges for digital literacy. The school is still perfecting the approach ... perhaps we will never end doing so ...

It's a new universe with a huge need of ethics and committed citizenship. The need of several kinds of approaches on digital literacy brings to surface the "citizenship of the digital era".

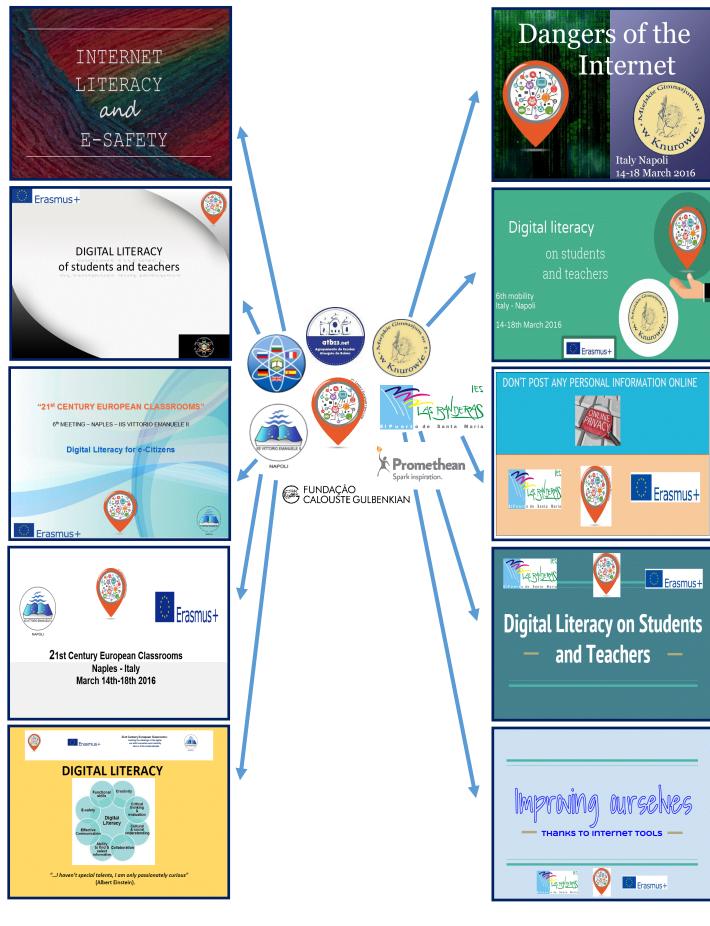


One possibility explored is the curricular offer by teachers with ICT competences, on a proficient user dimension, in a technological advanced learning environment and using collaborative pedagogy.

Obviously we must consider the importance of the autonomy in curricular approach, where we must deal with and work on a less ambitious definition: "adequate mobilization of available information and conscientious communication".

Work on digital literacy in an educational environment is speaking of specific actions on teachers training, on strategies for parental cooperation, defining transversal interventions under a perspective of a less technological approach and more literacy reach, working less technical subjects and underline pedagogical and formative issues.







Chapter 5 - Digital Literacy

LINKS (Videos and other presentations)

http://www.21digitalclass.com/partner-presentations-5.html

Bulgaria

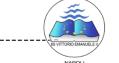
https://youtu.be/AhT9AhyHVLY - VIDEO - Digital Leaders Project

https://youtu.be/bJXHgC84hAU - VIDEO "Digital Literacy - E-safety" (Students presentation)

-----alv

Italy

https://www.youtube.com/watch?v=48mjdJ2IDFo - VIDEO (Students presentation)



Poland

<u>https://www.emaze.com/@ACOFCQTQ/digital-literacy-6th</u> - Teachers presentation (Emaze)



Portugal

https://plotagon.com/315354 - Students presentation (Plotagon)

https://app.emaze.com/@ACOCZFTC/digital-literacy-on-students-and-teachers-copy1?hidebuttons&fullscreen - Teachers presentation (Emaze)



Spain

<u>https://youtu.be/bTkEE3wT7Hw</u> - VIDEO "Digital Literacy - Cyberbullying" (Students presentation)

https://youtu.be/rzj Imrf94s - VIDEO: "Digital Divide! - The use of ICT at school and at home" (Students presentation)

 $\frac{http://luisama2.edu.glogster.com/digital-literacy-students/}{(Glogster)} - Students\ presentation$

https://www.powtoon.com/online-presentation/cRLYyb3VpI8/?mode=movie#/ - Safety Tips - Students presentation (Powtoon)

https://prezi.com/lqxzijiecedh/edit/#114 24309637 - Students presentation (Prezi)

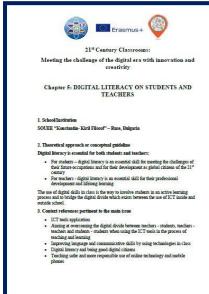


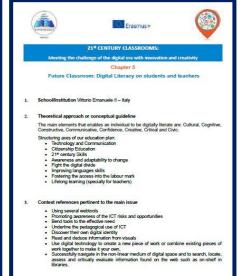


Good Practices Description by Partner School















C6

Chapter Six

Interactive Pedagogy: the use of educational aimed tools



The recent evolution in the educational digital market, has produced a considerable amount of diverse educational aimed tools in the digital dominium.

However the quality and the huge amount of such tools present a challenge, both for teachers as well as for school management in order to select quality tools and needed ones.

It's very important to salute the investment of stakeholders in the production of software and hardware with educational main purposes. That kind of investment is supported by research and most of the time by a tremendous attention payed to school environment, stakeholders needs (mainly teachers, students, parents), and to the pedagogical issues by presented nowadays educational system.

That's very important the partnership that several schools are establishing with technological companies in order to get more adequate tools responding to the needs of the 21st century school.





C.6

Directing tools aiming educational purposes may drive teachers work easier, or at least enables them the possibility of having, almost chirurgical strategies and materials to get best results and get classes more effective.

However the importance of digital world tools, used in education and the fact that those who are specifically aimed being more effective than those who are of a generalist kind, it is fundamental to emphasize pedagogy superiority over technological one.

You can be the most traditional teacher with the most traditional and outdated approach to class dynamics the most advanced technology inside classroom. technology tool. provides а pedagogy that can enhance the digital domain to get a more effective communication, in line with society expectations from the 21st century school knowledge and competences.

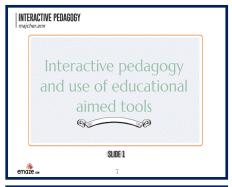
The scenario, the teachers and students role are in constant refoundation in a large number of schools and countries nowadays.

When you use digital technology you have to keep in mind that this use is just not enough to get better results and to drive change to your class by itself. You need to keep in mind, that change goes deeper and that educational strategies go far more in pedagogical thinking than just in tools.

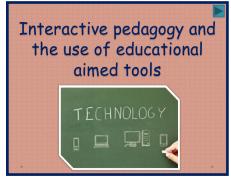
That being said, you always have some difficulty in staying updated towards the technological dynamics and you always need good amounts of training and sharing information in diverse issues, such as: assessment, communication, devices, etc.







Technology To be or not to be? Secondary school with the study of European languages "St. Constantine–Cyril the Philosopher", Bulgaria







Chapter 6 – Interactive Pedagogy

LINKS (Videos and other presentations)

http://www.21digitalclass.com/partnerpresentations-6.html

Poland

https://www.youtube.com/watch?v=2WaVwy158kw&feature=you
tu.be -Teachers presentation (VIDEO)

<u>https://www.emaze.com/@ACWIOZIC/interactive-pedagogy</u> - Teachers presentation (Emaze)

https://prezi.com/owcd35inhg z/our-erasmus/ - Students
presentation (Prezi)

A Knurowi

Bulgaria

https://www.youtube.com/watch?v=-LsDXP8tOaU - Teachers
presentation (VIDEO)

Spain

https://prezi.com/g6u1t01hlykl/travel-ofpoland/?utm_campaign=share&utm_medium=copy - Students presentation (Prezi)



Portugal

https://www.youtube.com/watch?v=zCUKiB81Ws8&feature=yout u.be - Teachers presentation (VIDEO)

https://www.youtube.com/watch?v=Xgfe4lc8wxY&feature=youtu.
be - VIDEO: "Feedback in one word" (Students presentation)



Italy

https://www.youtube.com/watch?v=09 obfoU6WM&feature=yout u.be - Teachers presentation (VIDEO)

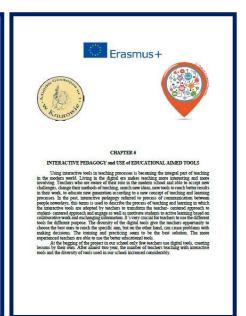
 $\frac{https://www.youtube.com/watch?v=7XRaW9YbbnE\&feature=yout}{u.be} - Students presentation (VIDEO)$





Good Practices Description by Partner School

















Other Materials Available

The partnership developed in this project has produced a big amount of materials that we intend to make available to all and to share, hoping that they may help or inspire others to invest in the use of digital technology to get closer to the 21st century classroom scenario.

Chapter 1 – Creativity and innovation (Blackburn, the UK)

http://www.21digitalclass.com/resources-and-tools-1.html
Other resources and tools

Chapter 2 - Effective communication (Ruse, Bulgaria)

http://www.21digitalclass.com/resources-and-tools-2.html
Other resources and tools

Chapter 3 – Internet and web tools (Puerto de Santa Maria, Spain)

http://www.21digitalclass.com/resources-and-tools-3.html
Other resources and tools

Chapter 4 – Students' evaluation (Atouguia da Baleia, Portugal)

http://www.21digitalclass.com/resources-and-tools-4.html
Other resources and tools

Chapter 5 - Digital Literacy (Naples, Italy)

http://www.21digitalclass.com/resources-and-tools-5.html
Other resources and tools

Chapter 6 – Interactive Pedagogy (Knurów, Poland)

http://www.21digitalclass.com/resources-and-tools-6.html
Other resources and tools

Dissemination Seminar (Lisbon, Portugal)

http://www.21digitalclass.com/partner-presentations.html Presentations

https://livestream.com/accounts/11111979/events/57569 85

Conference "Education in the Digital Era"



To all who made possible the production of this notebook, by participating in this project activities on behalf of all the schools and other partners involved we wish to thank them for their commitment, their cooperation and their availability.

Students
Teachers
Technicians
Parents
Stakeholders
Institutions
And communities involved
on behalf of our project...

Thank You All







ICT in Education A good practice notebook

This is a subject and a document that's never even near a conclusion. This is a document aimed to help, to share some good practices. We need to have more testimonials, more good practices coming to make this notebook richer. This is an ongoing document, constantly built by those who want to share their experience to accomplish a better classroom in the world, facing the challenges of the 21st century with innovation and creativity.

