

Investing in education for a changing world

21ST CENTURY SILVER STATESTICS AND READINESS FOR THE WORLD

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TRANSFORMINGEDUCATION through
TECHNOLOGYTECHNOLOGYTRANSFORMING
the WORLD through
EDUCATION

The world's largest corporate sustainability initiative

A cal to companies to align strategies and operations with universal principles on human rights, labour, environment and anticorruption, and take actions that advance societal goals.

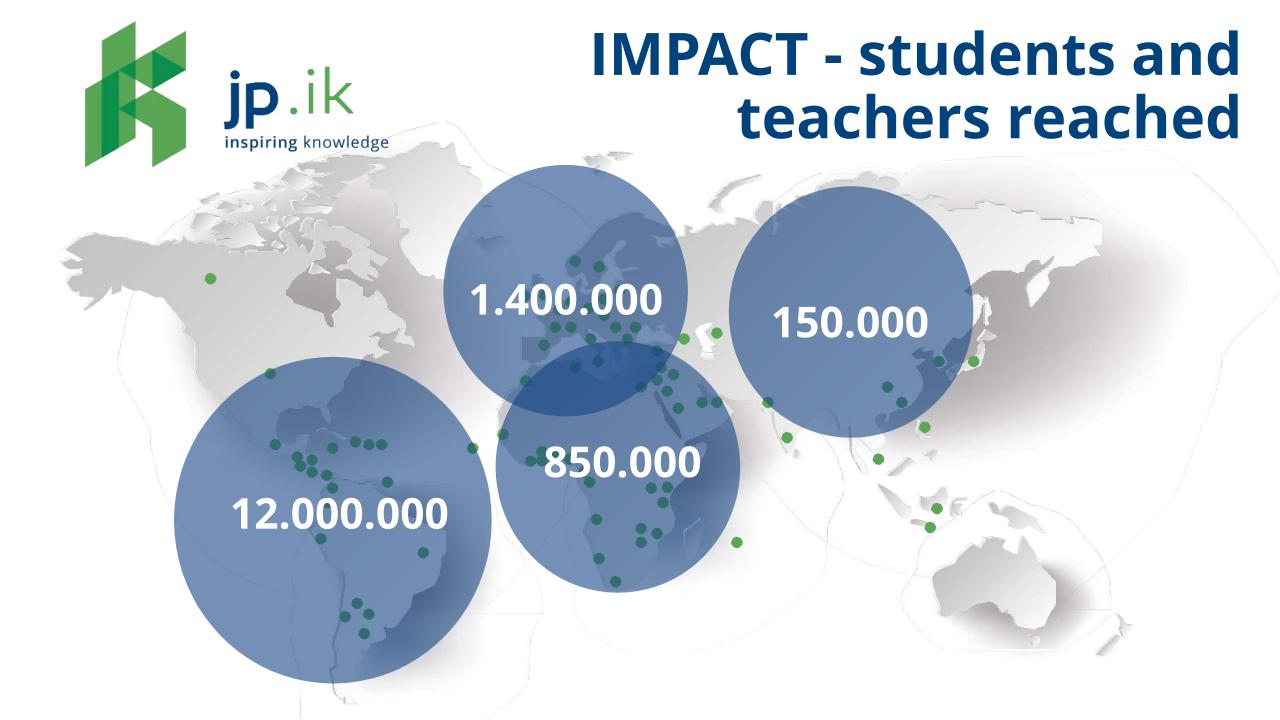


United Nations Global Compact





N° 1 IN THE WORLD IN IMPLEMENTING LARGE SCALE PROJECTS IN EDUCATION



the jp.ik project sustainable approach





THE GLOBAL GOALS For Sustainable Development







EDUCATIONAL IMPACT

"Transforming Education" around the world. Creation of talented and trained professionals.



SOCIAL IMPACT

Development towards a new global society. Increase the number of qualified professionals that stimulate the national economy.



Maintenance of already existing companies and new upcoming opportunities.



SUSTAINABLE IMPACT

Stimulate action over the next 15 years in the Five Ps of critical importance: People, Planet, Prosperity, Peace and Partnership.



jp.ik questions on EdTech integration for 21st century skills development



How far is **development** really addressed in Educational Technology projects?



How should education be addressed when **virtual and digital environments** enter the classroom space?

Do they create opportunities to intentionally enhance **exploration and learning**?

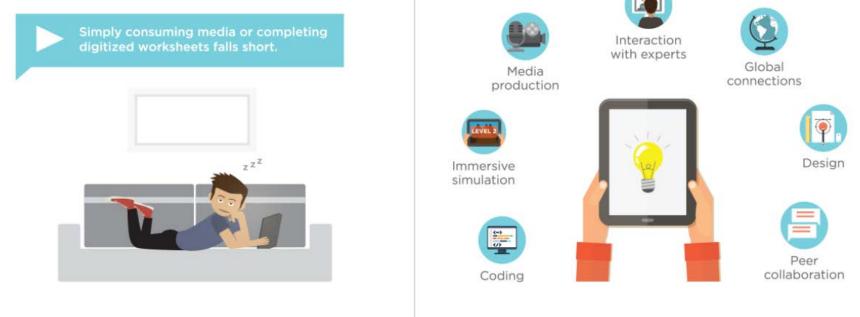
And how can **educational agents** be guided to systematically get the benefits that Educational Technology may bring?



Engaging and Empowering Learning Through Technology



Learners need a deeper understanding how to apply technology and innovation in order to achieve desired results. Education systems, meanwhile, need to ensure technology curricula are kept up-to-date, while teachers need to have the opportunity to refresh their own skills and knowledge in order to keep pace with external developments.



PASSIVE USE

ACTIVE USE

The use of technology should be embedded across the educational experience, to mirror the ways in which technology is now relevant to all sectors and careers.



Portugal: Education Technological Plan







Vision

Political Climate

opportunities;

school level;

Internet use;

mediated;

Indicators of Success

Size of distribution;

Goals

Government initiative;

ICT highly valued by the Government.

to the European best practices;

the students' academic success";

Promote the access to the information

society, info-inclusion and equality of

Assure one computer with learning

citizens, generalizing computer and

ICT national use, e.g., accessing Internet;

School procedures now technologically

Academic results in national examination.

Enhance competitiveness.

International benchmarking;

Approach the national educational policies

Create the "physical conditions that enable

Planning

Geographical Scale

All national primary school students, from both public and private schools. In 2011/2012 the distribution has been interrupted.

Technological Setting

- E-escolinhas was part of a major national technological plan;
- Schools were provided with internet connection and one desk computer for each classroom:
- Some local stakeholders equipped classrooms with video projectors and smart-boards.

Program Operations and Oversight

- Top-down political decision and instruction;
- Training was not specifically target
- The initiative was not planned in the long term.

Strategies for Stakeholders Engagement

Stakeholders (e.g., local MoE structures, Municipalities) and field actors had a minimal participation in the process.

Mechanism for Communicating among Stakeholders

Operational gaps in the articulation among stakeholders as several stakeholders are responsible for the Primary school.

Implementation

Rollout of Elements

Magellan were delivered from zero cost to a maximum of 50 euros to Primary students from 2008 to 2011 (décalage in the delivery rollout); Parents requested the computers through the schools/teachers.

Ownership

Ownership of Magellan to students and parents (not a school responsibility); Students kept their computers at home.

sometimes bringing them to school and using them in the classroom.

Training and Support

- Training has been provided to teachers by several stakeholders (Intel, Microsoft, JPSáCouto, MoE, Municipalities and other local stakeholders);
- General feeling of lack of support and follow-up;
- ICT coordinators assisted the Primary schools differently (in terms of nature and intensity of support).

Monitoring & **Evaluation**

Progress to Success Indicators

- Access to computer in school and home for the primary school students and their parents - children played the role of gatekeepers of ICT at homes; Asymmetries on the technological
- modernization of schools and on the
- Magellan use as an educational tool.

Monitoring

- A heterogeneous panorama: different level-stages of integration;
- Education as a natural set for ICT:
- Teachers and parents as ICT integration interlocutors;
- Magellan: from a technological to an ecological vision.

Distal Stakeholders Recommendations

- Vendors: Strategic alliance through practice:
- MoE: To value ICT skilled and innovative teachers in career progression; To inform curricula with ICT integrated activities; To promote digital contents.
- Municipalities: To include ICT in Municipality Educational Charter, defining specific goals towards community media and digital literacy; To design training that articulates the different available school resources with pedagogy wider outcomes.

Transversal Outcomes

Better academic performance Higher social participation Increased employability





- contents per student starting at primary Develop basic ICT skills in the Portuguese

 - designed and follow up was not planned;



Kenya: DigiSchool Programme

Training of Master Trainers, ICTA Champions & Teachers





Training ICTA Champions From the beginning of 2017

From April 2016





Training 6.872 Teachers from August 2016





Kenya: Assessment phase



Absenteeism | "The children are

motivated (...) the children are very excited, they want to manipulate the gadgets every time they come to school, so absenteeism has actually reduced".

School Director, Kwashee School

Lifelong Learning |"It's fast and

it's fun (...) the time is near for our retirement but I am feeling I want to stay (...) it keeps you and you pray it will continue and we pray you will bring to us more and more things".

Teacher, Sparki School





EdTech projects' effectiveness on 21st Century Skills depends upon



- a clear preliminary assessment of needs and opportunities and a critical stakeholders alignment for project design
- an integrated training approach entwining Pedagogy and Technology
- a comprehensive framework of prerequisites for Master Trainers selection and training – skills in Technology, Pedagogy and mentoring
- an adjusted training duration to the targeted content and expected outcomes
- a clear definition of **impact assessment domains** to understand the outcomes and learn how to improve and go further





EdTech projects' New challenges



- a Digital Borns approach start earlier to not transform in high dependent consumers project design based on assessment
- Teacher and community empowerment entwining Pedagogy and Technology
- a challenge don't create user's or consumer's create thinker's and producer's
- Get and accept **Results**





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main projects and milestones



Digital Literacy Programme, in KENYA

Engineering project, in SOUTH AFRICA that integrates a SKD Assembly Line

Education project

Education Project,

Ibirapitá project,

in **MEXICO**

in **ECUADOR**

in **URUGUAY**

Industrial unit

Inauguration,

EL SALVADOR

Una Niña, un Niño,

Una computadora, in

in **BOLIVIA**

driven by the Public

Education Secretariat,

Engineering project, in **BOTSWANA** dedicated to the installation of a SKD **Final Assembly**

Engineering project, in **SENEGAL** that integrates a SKD and SMT Assembly and **Product Management**

Industrial unit inauguration, in **EL SALVADOR**

Inspiring Knowledge **Education Software** (ikES) launch



mymaga brand as a global brand for Education

in ANGOLA

Lempitas Project, in **EL SALVADOR** Pilot project,

UK, in partnership with TETRATAB

Meu Kamba,

Amigo Project, in **BRAZIL**

Pilot project, in TIMOR, installation of 4 classrooms teacher's

in COLOMBIA,

Project Quipus, in **BOLIVIA Police Security First deployment** Forces project, in

Meu Kamba. in ANGOLA

Project Escuela 2.0, in **GALICIA**

Popup School,

Project Balboa, in PANAMA

in **ARGENTINA** Pilot project, in Morocco, teacher training

at the "Maison de

Netketabi,

in **PALESTINE**

Plan Ceibal.

in **URUGUAY**

in **VENEZUELA**

Magellan,

project n Portugal

First education

Canaima Educativo,

Conectar Igualdad,