



**LONDON SCHOOL**<sup>®</sup>  
OF MANAGEMENT EDUCATION

# Mobile App Production: Open Schooling and Responsible Innovation during the Covid-19 Pandemic

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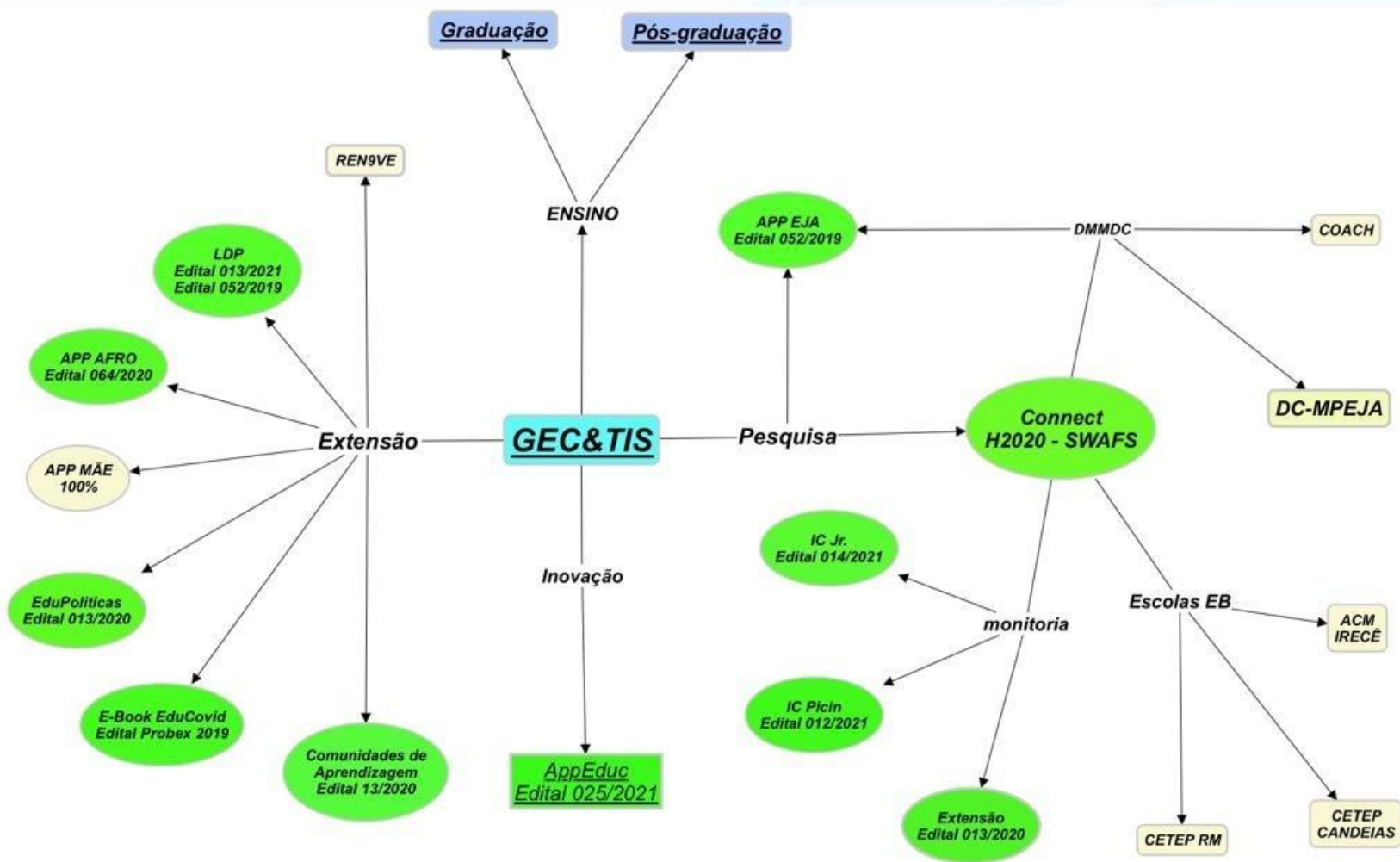
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## RESEARCH & INNOVATION IN GEC&TIS

- **Tecsol** – Digital Citizenship Centers in Rural Communities – CDCR and Solidarity Technology
- **EduCovid** – Applications for Mobile Devices: Open Education in the fight against the Covid-19 pandemic;
- **Mãe 100%** – Extension activity for entrepreneur women who live in social vulnerability, living in communities in Camaçari;
- **Ethnic Tourism** – Extension activity with socially vulnerable traditional communities in the metropolitan region of Salvador;
- **LDP XIX** – Professional Development Laboratory, aimed at supporting and improving students and teachers in the areas of communication and professional education;
- **CONNECT** – Research studies in international collaboration (Open University – UC, EXUS Greece, IRSI);
- **Socio-scientific** inclusion of basic education students in the public higher education network.
- **LABITEC** – Itinerant Laboratory of Scientific and Technological Education.

# GEC&TIS Projects and Activities - 2021/2022



Legenda: Verde = \$ ; Oval - tem monitoria; Quadrado = Equipamentos e custeio

**Table1: Status of innovation projects developed by the research group**

PROJECT	NATURE OF THE PROJECT	PERIOD	STATUS
<b>TECSOL /CDCR</b>	Extension/ Research	2013 a 2016	Finished
<b>EduCovid</b>	Extension	2020	Finished
<b>Mother 100%</b>	Extension	2021	In development
<b>Turismo Étnico</b>	Extension	2021	In development
<b>LDP XIX</b>	Extension	2019	In development
<b>CONNECT</b>	Research	2020	In development
<b>Socio-scientific inclusion</b>	Extension	2021	In development
<b>LABITEC/ Aplicativo- Formação</b>	Research	2021	In development

# APPS FOR MOBILE DEVICES: OPEN EDUCATION IN THE FIGHT AGAINST THE COVID-19 PANDEMIC - EDUCOVID

Image 2: Developed Applications

- EduCOVID 19
- E-COVID
- IRECOVID
- ColInfo
- Educovidas
- CheckList
- Calculador IMC
- EduCoKids



Fonte: Santos, k; Ribeiro, S.; Pinto, S; Ferreira, S. (2021)

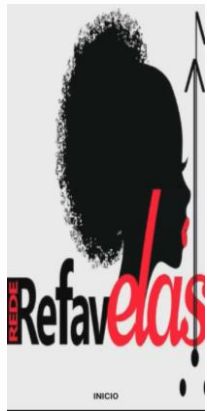
# ETHNIC TOURISM

Ethnic cultural tourism represents a true immersion in the history and cultural heritage of a people. Through it, various social inclusion actions can be promoted, ranging from stimulating entrepreneurial activity to socio-digital inclusion, education that transforms ethnic and racial awareness, the development of self-esteem, and the opportunity for work and income for the communities crossed by landmarks and historical symbols of priceless cultural wealth, which, without this action, remain hidden and devalued, far from the tourist scene or even when included in formal, folklore routes and disconnected from their roots.





# MOTHERS 100%



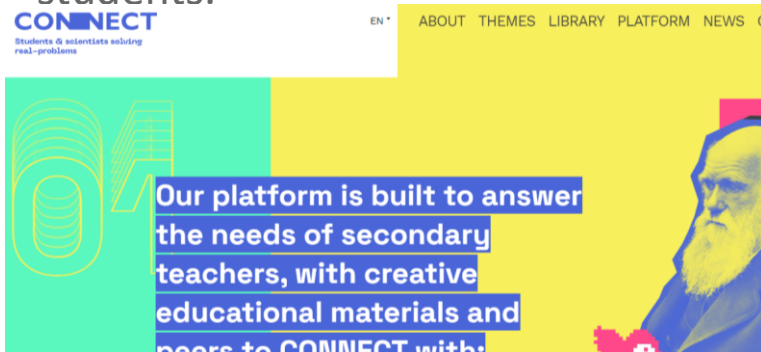
The mother 100% project: Social Entrepreneurship and Female Protagonism was designed considering that the economic and entrepreneurial activities of women in peripheral communities represent a significant part of the local economy and often constitute the main or only family income. Through the actions of this project, it is possible to promote social inclusion, the stimulus to entrepreneurial activity, through socio-digital inclusion, education that transforms ethnic and racial awareness, the development of self-esteem, and the opportunity for work and income for the communities.



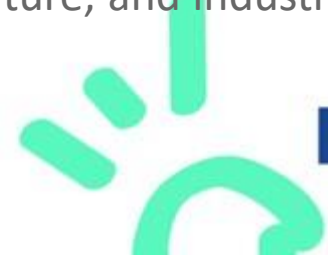
# CONNECT

CONNECT is an inclusive and sustainable model that allows more basic education schools to adopt open education, incorporating scientific action projects into the basic curriculum, using participatory scientific approaches with universities and companies. A scientific action makes science more relevant to students.

Among the main scientific dilemmas studied by students and teachers in Connect actions is the Carbon Neutral theme, which aims to reflect the world's chances of controlling climate change. Carbon neutrality is a state of net zero carbon dioxide emissions. This can be achieved by eliminating or balancing carbon dioxide emissions with its removal (carbon offsetting). Carbon emitting processes are associated with transport, energy production, agriculture, and industry



CONNECT



This project has  
Union's Horizon  
Programme un



# ITINERARY LABORATORY OF SCIENTIFIC AND TECHNOLOGICAL EDUCATION - LABITEC

LABITEC is a mobile laboratory that aims to promote scientific education actions with digital inclusion, through educational activities, to provide students from public schools, without access to ICT, with open educational activities aimed at real socio-scientific problems in regions with high levels of social vulnerability, early school leaving and illiteracy. Associated with the thesis research studies, it proposes to investigate the contributions of Application-Formation, in student co-learning specifically in Youth and Adult Education.



# METODOLOGY

- The projects adopt the principles of qualitative research and the methodology of Participatory Action Research that allows “the active participation of the people who are the object of the intervention” (GOBBO, 2012, p.20);
- as well as the principles of Responsible Innovation Research (Responsible Research and Innovation – RRI) ;
- whereby social actors and innovators become responsive to each other (VON SCHOMBERG, 2011, *apud* PINTO e RIBEIRO, 2018; TORRES, et. al., 2017).
- The scientific literature used in this study is supported by the principles of Open Education which, according to Okada and Sherborne (2018), together with open sciences and open schooling, are essential to prepare individuals and communities for critical collaborative participation with knowledge, skills, and attitudes to take training to different communities, mobilizing the academic community to carry out university extension aimed at facing the adverse conditions experienced.

# PRELIMINARY FINDINGS

The initial findings suggest that the cooperation between the participants plays a fundamental role for them to think about and discussing real problems faced by society, involving different social actors. This collaboration has enriched the process of designing and implementing better solutions. This study made it possible to identify how Open Education was promoted during the Covid-19 pandemic through applications for mobile devices and digital resources of open schooling that were used and co-created by students from public schools supported by the higher education network.

The production of applications for mobile devices was conceived and developed with the participation of the subjects of the community, noting the appropriation of programming in blocks, and observing the implementation of social technology, since the real social problems of these communities allow them to be developed. reflect on possible solutions, design and execute projects to face them, and assimilate scientific and technical methods to address socio-scientific challenges and application technical solutions conceived and developed by the community itself.

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