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ICT TOOLS FOR EARLY DIAGNOSIS SUPPORT (TB)–"TEDS"

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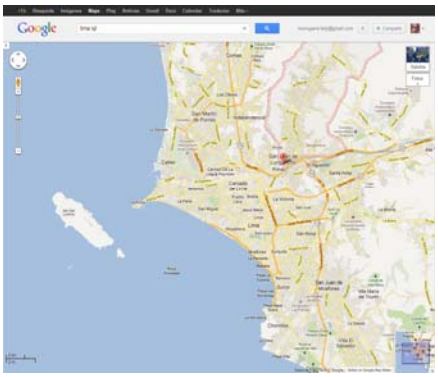
Abstract: "ICT Tools for Early Diagnosis Support (TB) - TEDS" Instituto de Medicina Tropical Alexander von Humboldt in Peru (Universidad Peruana Cayetano Heredia) collaborates with the CTIC Foundation developing in the project TEDS-TB (ICT Tools for Early Diagnosis Support) aims to contribute to research in artificial intelligence technologies and computer vision early warning of tuberculosis and strengthen health education through a platform virtual for the training workshops in the area rural and urban. The TB Research Unit of the IMT-AvH is developing a community engagement program in order to improve knowledge about TB and esearch conducted by UPCH in the district of SJL.



Goals overview: The project's objective is to contribute to the research tools of artificial intelligence and computer vision applied in the early warning of infectious diseases of high prevalence, which in turn can be used as tools to support the training of health personnel who are not expert. Of all the diseases Tuberculosis is chosen as a test case for testing in a real-world scenario.

Opportunities: Community health programs currently exist within Health Programs in Peru that address diseases like tuberculosis, diarrhoeal infections, immunizations and upper respiratory infections. Community health programs are centered on a health promoter, who is a member of the community, and usually a leader of local organizations (e.g. mother's clubs or nutritional organizations like the"cup of milk"program). The main role of the promoter is to interact with community leaders outside the health centers to coordinate the activities of these centers:

- Increase the knowledge of TB in the community
- Increase the knowledge of research in the community
- Increase knowledge about research conducted by UPCH in the district
- Promote community participation in the control of TB transmission.

We expect that the community leaders trained, will transmit the information to their communities.

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