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**Project overview:**

The project aims to identify the requirements and to design a framework for the clinical decision support aspect of a Public Health Information Systems (PHIS) for developing countries. A specific application to predict the resistance pattern and antiretroviral treatment (ART) outcome in a clinical setting will be designed and a prototype will be implemented. In developing countries factors including financial constraints, expected impact of intervention and policy must be balanced when deciding on costly clinical interventions. A system that is able to adequately represent and reason about these factors is crucial to maintain an effective and sustainable public health system.