

The Problem:

State of the information technology in the Health Area: According to our research, several problems related to the information technology state and communication exists in the health care environments of Latin America.

Under grade of informatics into hospitals and low percentage of implementation of networks in hospitals. An only operative system doesn't exist in the hospital neither regional network, with the consistent lack of standards of communications protocols, applications, tools, etc.

A unique system of Clinical History (EMR: electronic medical record) doesn't exist in health institutions, and only there are local single systems without integration to each other. There is not unified implementation of computer hospital systems with handling of images and telemedicine. The software systems are in their legal age owners, having been these developed ones for programmers or software companies, with high development costs and disbandment. Besides this, there is a low diffusion and implementation of free and open source software (FOSS). The computerized main hospital areas correspond to the office worker, the accountant and billing. There is no start emphasis in oriented developments to the management and quality of care.

BioLinux Group:
<http://www.biolinux.org.ar>

Salud Libre Community:
<http://saludlibre.org>

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Objective: To develop an operating system for hospitals under the standards and tools of free Open source software (FOSS) to implement in institutions and health care centers of Argentina (public and private hospitals). Give the base for operative system for all Latin American Health Institutions. **Version:** SaluX MTS (Med server / Terminal Server). More information: <http://salux.org>



Objective: To develop a HIS under the standards and tools of free Open source software (FOSS) to implement in institutions and health care centers of Argentina (public and private hospitals). OpenHis offers the base for hospital information system for all Latin American Health Institutions, and is developed by Open source software under Apache 2 +php 5 platform. OpenHIS is modular, scalable and customizable. More information: <http://www.openhis.com.ar/blog>



This is a main development of Pathology Department of University of Basel in Switzerland. I-Path is an Open source telemedicine platform, allowing create Experts groups, Discussion and Teaching Groups into a simple and very easy GUI, for exchange medical information and consultations between professionals of several specialties and regions. More information: <http://telemet.ipath.ch/tmsur>

Our vision of the hospital systems:

The Hospital system is a group of sub-systems in dynamic balance: assistance system, administrative system, and accountant, technical, managerial, among other.

To be able to cover the whole necessities of a system hospital model, four computer primary sub-systems should be developed:

- **Base Operating system and computer networks.**
- **Hospital Information System (HIS)**
- **Telemedicine System.**
- **Management System and Store of Images (PACS).**

The BioLinux Group has as objective the research and development in these four lines, necessary for the normal operation of a hospital system, under the standards of the free and Open source software (FOSS), oriented to the hospital management and the quality of care in effectors of health.