



The Free Health & Hospital Information System

health@gnusolidario.org

<http://health.gnu.org>



About GNU Solidario



Delivering health and education with Free Software

- **GNU Health** .- The Free Health and Hospital Information System
- **IWEEE congress** .- International Workshop on E-Health in Emerging Economies

Free Software can be **used**,
copied, **studied**, **modified** and
shared



Community – Freedom – Ethics
Social Activism – Public good

GNU Health is Free Sofware licensed under the
GNU General Public License (GPL v3)

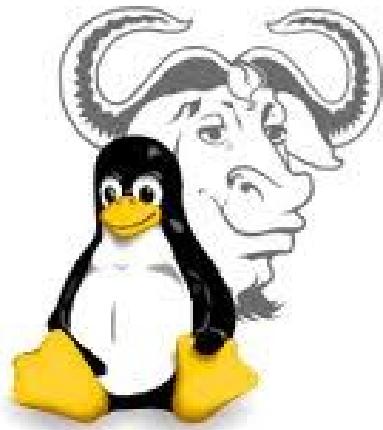


GNU Health : GNU official package

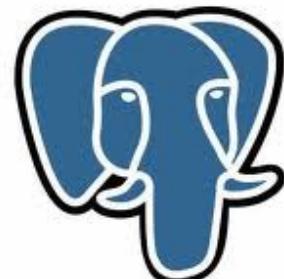
Free Software Foundation GNU official package



Free, State-of-the-art Technology



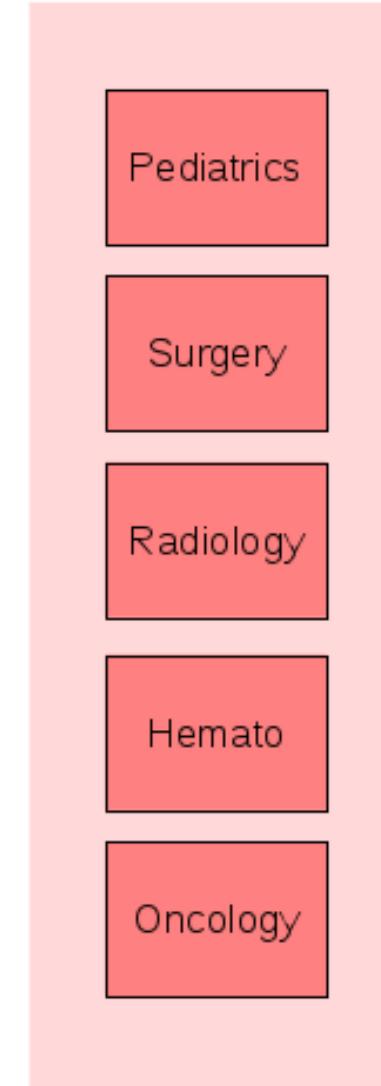
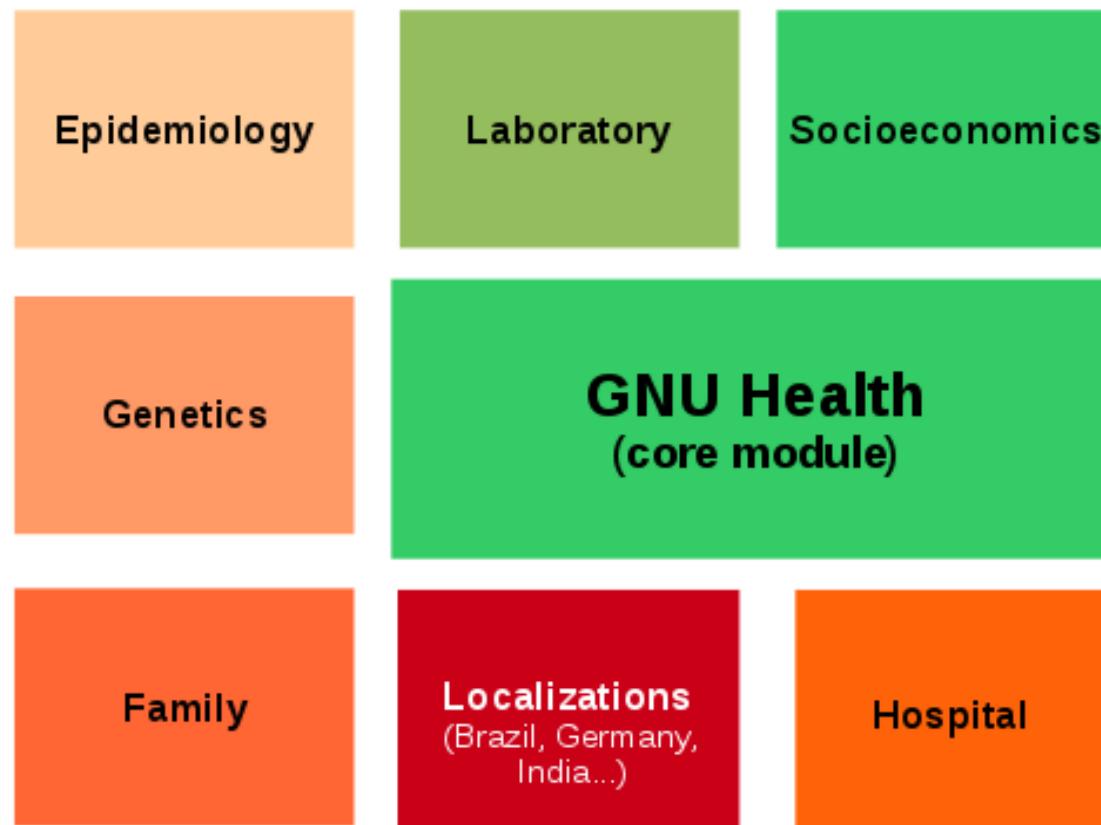
PostgreSQL





GNU Health : Modular Design

GNU Health Modular Design





GNU Health : Functionality

- Electronic Medical Record (EMR)
- Hospital Information System (HIS)
- Health Information System

GNU Health : Social and Science



Doctor as a scientist

Physical exam
Clinical History
Genetic Risks
Lab Management
Surgeries
Imaging Diagnostic



Doctor as an integral component of the society

Health promotion and Disease Prevention
Socioeconomic Status
Lifestyle
Psychosocial Risks
Sexuality
Vaccinations

...



Centralized Patient and Family Management



Tryton

File User Options Plugins Shortcuts Help

Menu

- Party
- Product
- Currency
- Health
- Configuration
 - Laboratory
 - Diseases
 - Procedures
 - Health Centers
 - Physicians
 - Medicaments
 - Misc
 - Genetics
 - Appointments
 - Hospitalizations
- Patients
 - Families
 - Family Members
 - Patients
 - Prescriptions
- Laboratory
- Neonatology
- Reporting
- Administration

Tabs

Patients

Record Actions

Main Info

Patient: Betz, Ana ID: PAC001 Sex: Female

DoB: 10/04/1985 Age: 26y 1m 17d

Patient Allergies and Critical Information

Type I diabetes

Travelled to malaria endemic area in May 2011 without taking prophylaxis

Picture

General Info Medication Diseases Gyneco / Obs Surgeries Genetics Lifestyle PSC Socioeconomics

Main Misc

Patient General Information

Blood Type: A	Rh: +	Ethnic group: Hispanic
Family: Betz	Address: Betz, Ana	Marital Status: Married
Primary Care Doctor: Cordara, Cameron	Hospitalization Status: outpatient	Insurance: Insurator : 92839238

Record Form : Area to Input the data

Main Menu

Status bar

Administrator - GNU Solidario Hospital [Euro]

Waiting requests: 0 received - 0 sent

admin@localhost:8000/demo

Hospital Management



Human Resources

Finances

Stock

Purchases / Providers

Lab management

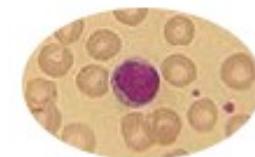
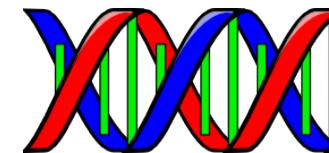
Pharmacy

Surgeries

Billing

Patient admission and hospitalization : appointments, beds..

Reporting



Imaging



Screenshot of the Tryton application interface showing the addition of a medical image.

The main window title is "Tryton". The menu bar includes "File", "User", "Options", "Plugins", "Shortcuts", and "Help". The top navigation bar shows "Patients".

The left sidebar displays the "Healthcare" module structure:

- Configuration
- Labs
- Diagnosis
- Prescription
- History
- Pharmacy
- Medical Record
- Medical Report
- General
- Appointment
- Hospital
- Patient

 - Family
 - Family
 - Patient
 - Procedure
 - Laboratory
 - Newborn
 - Report

The "Patient" node is currently selected.

The central workspace shows a modal dialog titled "Add to the Medical patient_data class". The dialog contains the following fields:

- Name:
- Type:
- Description:
Posteroanterior X ray shows normal structure.
- Last User:

The dialog title bar says "ImageMagick: xray.png".

To the right of the dialog, the "Attachments" panel shows a list for "Betz, Ana - Attachments" with one item: "xray.png" (1/1). It includes a thumbnail preview of the X-ray image and standard file operations buttons.

The bottom status bar indicates "Waiting requests: 0 received - 0 sent" and the connection "admin@localhost:8070/trunk".

QR codes and ID cards



	Name : Juancito Mother : Betz, Ana Mother's ID : PAC001 Dob : 2012-01-29 22:46:00	433434
Male	2900 gr and 47 cm	

	Name : Betz, Ana SSN : 1234567 Dob : 1983-03-10 Blood Type : A +	PAC001
Female		

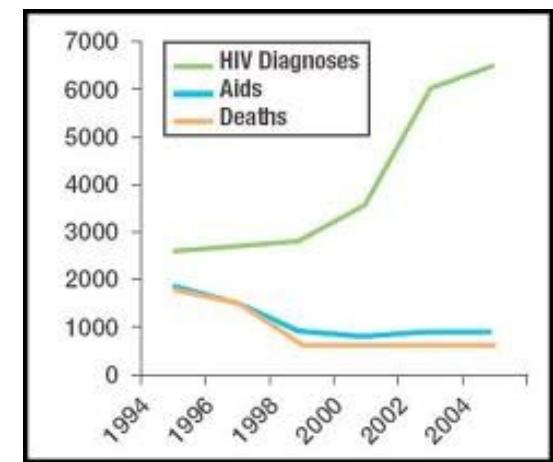
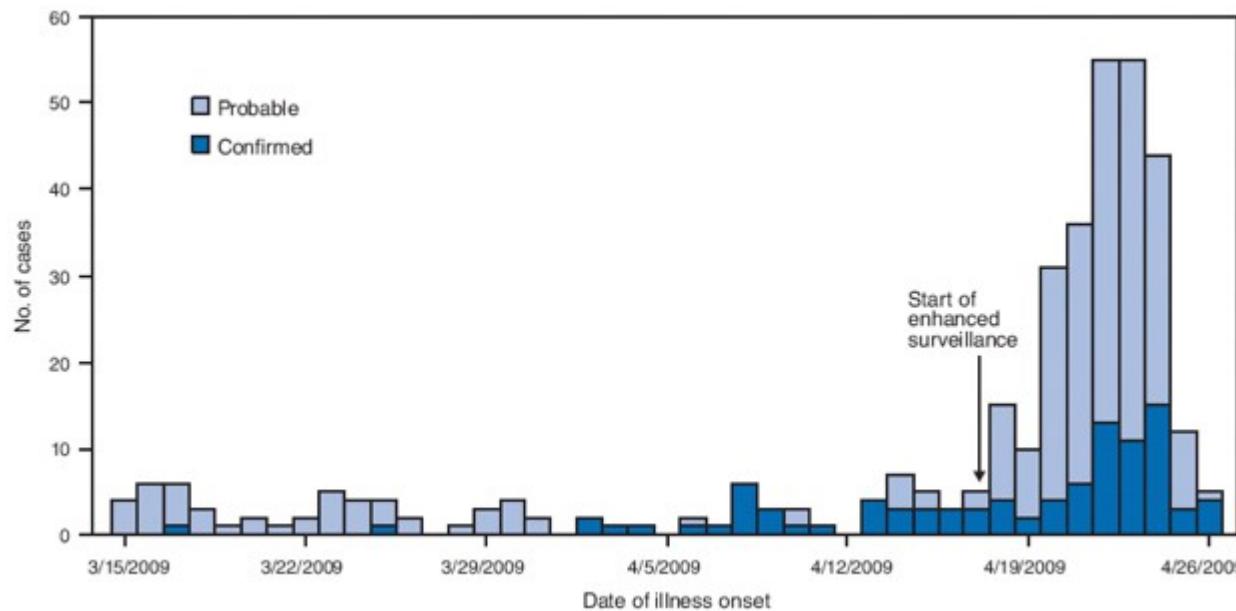


Epidemiology

Optimizes Health promotion campaigns

Early detection of disease outbreaks

Cost reduction in medicaments and infrastructure.





17:13

- Patients
- Appointments
- Prescriptions
- Laboratory
- Hospitalizations
- Pediatrics
- Health Services
- Reporting
- Configuration



Mobile Integration



GNU Health: cases around the world



**United Nations – International Institute for Global Health
GNU Health Training ing at the United Nations University. Kuala Lumpur**



Implementation in a 120 bed hospital in Chittagong, Bangladesh



Medical Center Pvt. Ltd.



Some other implementations...

- HOSPITAL LISTER, ARGENTINA
- MARCELO-PADILLA HOSPITAL, PHILIPPINES
- MASAKI INTERNATIONAL CLINIC, TANZANIA
- DR OÑATIVIA REGIONAL CENTER, ARGENTINA
- PEERLESS HOSPITAL, NIGERIA
- MOJOWARNO CHRISTIAN HOSPITAL, INDONESIA
- GRIYA HUSADA HOSPITAL, INDONESIA
- GRIYA WALUYA HOSPITAL, INDONESIA
- SHARQ MEDICAL CENTER, QATAR
- SAN VICENTE PRIMARY CARE CENTER, ARGENTINA
- VICTORIA HOSPITAL, ZAMBIA



International Community





UNITED NATIONS
UNIVERSITY



GNU Health at UN International Institute of Global Health, Kuala Lumpur

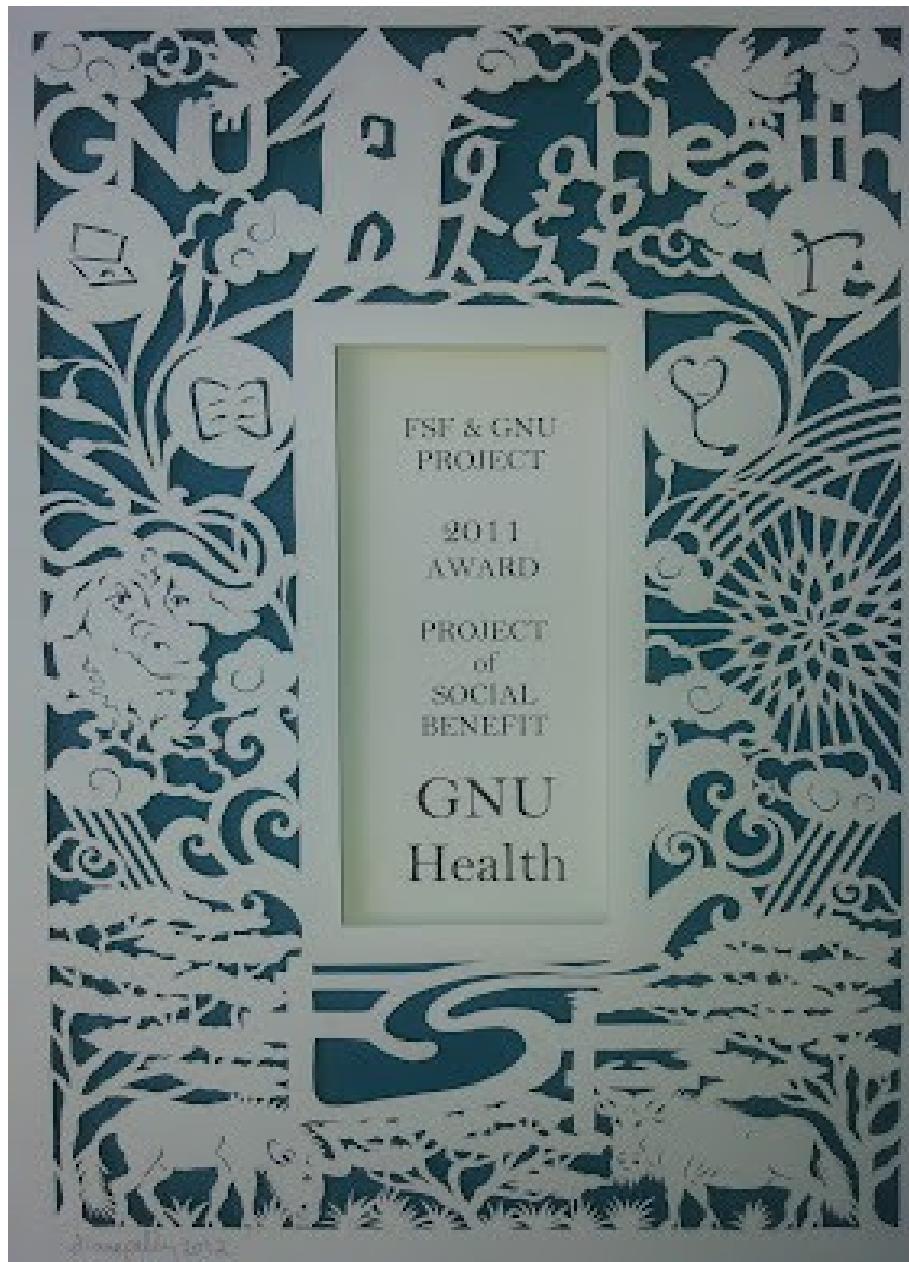


MEDETEL 2013

Luxembourg, APR 12 2013



2012 : FSF Best Project of Social Benefit



<http://www.fsf.org/news/2011-free-software-awards-announced>



2013: Most Revolutionary Free Software Project

 Mejor software libre 2012
Premios PortalProgramas.com

OpenOffice  Software libre más popular	SL y cooperación  Mejor Blog		
GNU/Linux  Esencial para la tecnología	OpenOffice  Esencial para empresas	Debian  Esencial para redes	GNU Health  Mayor potencial de crecimiento
GNU Health  Software libre más revolucionario	Wordpress  Esencial para comunicación	Debian  Esencial para la Web	Wunderground  wunderground.com Software libre para móviles

Más resultados en  PortalProgramas



2013: Project with largest growth potential





GNU Health MDG 6 and NTD

Millennium Development Goal # 6

- Tuberculosis
- VIH/AIDS
- Malaria

Neglected Tropical Diseases

- Chagas
- Dengue
- Lymphatic Filariasis
- Kala Azar
- Lepra
-





<http://health.gnu.org>

For more information, please write to
health@gnusolidario.org

