

# GNU Health - WSIS Forum 2013



**Improving Children and Mothers lives with Free Software**

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# About GNU Solidario



GNU Solidario first project :Santiago del Estero, Argentina, 2006

*Delivering Health and Education with Free Software*

## **GNU Health**

The Free Health and Hospital Information System.  
([health.gnu.org](http://health.gnu.org))

## **IWEEE**

International Workshop on E-Health in Emerging Economies.  
([www.iweee.org](http://www.iweee.org))



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# Free Software = Public Good



Ethics

Social Activism

Public Good



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# Over 20000 Children die every day



Malnutrition  
Cholera  
Drug abuse  
Prostitution  
Chagas  
Tuberculosis  
Child Labour



War

Family Violence

Kala Azar

Malaria

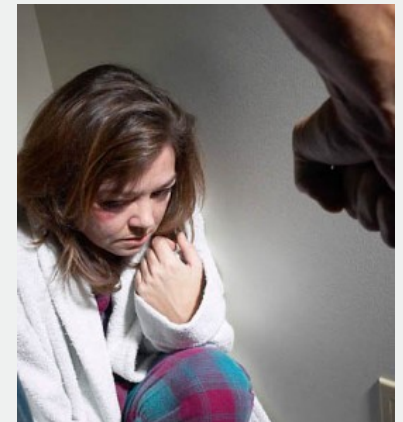
HIV

Contaminated Water



# Social determinants of Health

*“Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity”*



# GNU Health : Functionality



## Patient Management (EMR)

Evaluations, Socioeconomics, Lifestyle, Genetics, Surgeries...

## Hospital Information System (HIS)

Finances, HR, hospitalizations, Laboratory, stock, suppliers...

## Health Information System

Reporting, epidemiology, OLAP, decision taking support

GNU Health : The Free Health and Hospital Information System

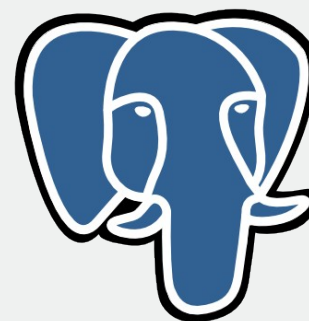
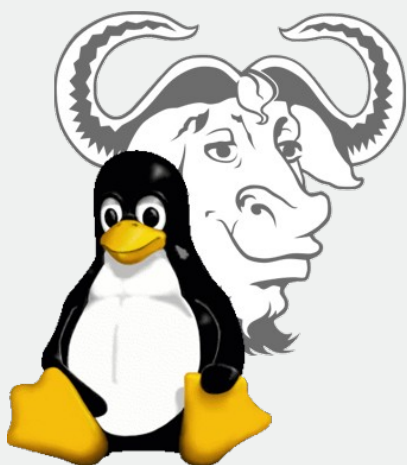


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# GNU Health relies on Free Technology



PostgreSQL

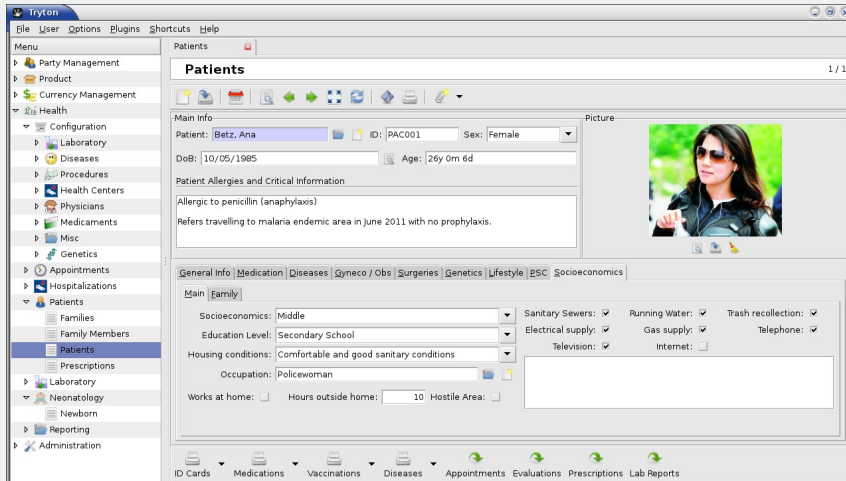


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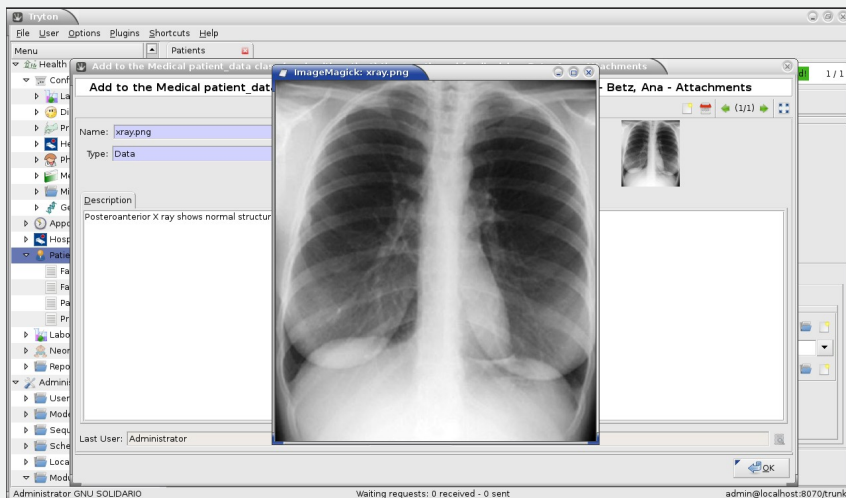


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# GNU Health: Family & Social Medicine



Strong Focus on Primary Care & Family Medicine



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# GNU Health : Universal & Standard



WHO ( ICD-10, WHO essential medicines, ...)

Multi-language: German, French, Bahasa, Spanish, English, Russian..

Genetic Risks and family history ( 4200+ "disease genes" - NCBI)

PSC : Massachusetts General Hospital .- Pediatric Symptoms Checklist

Recreational Drugs Henningfield ratings

NIDA recreational drugs database

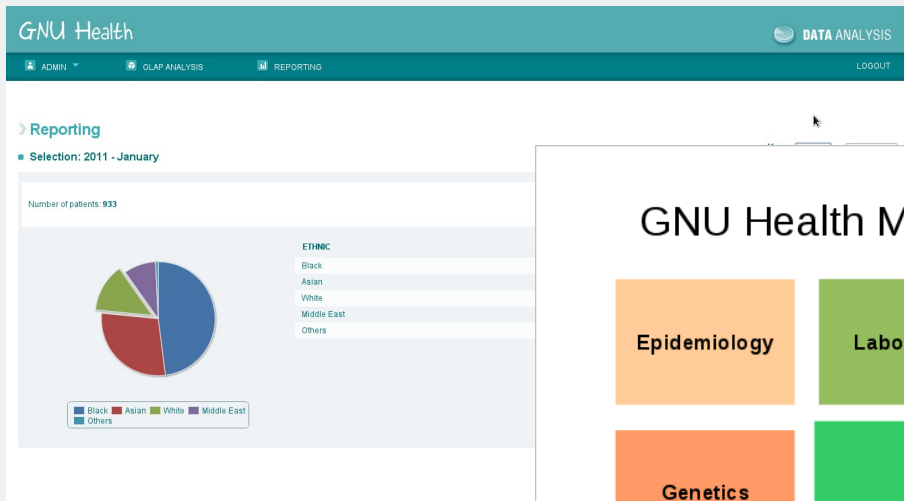


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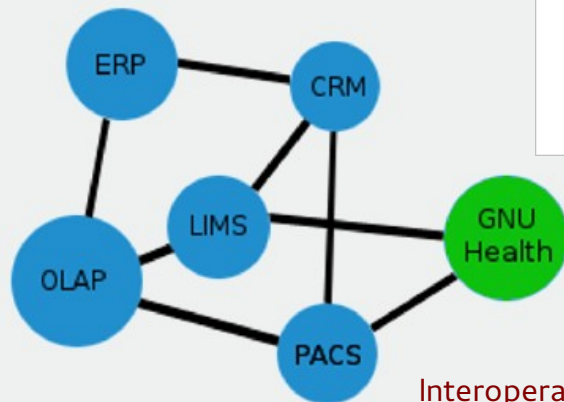


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# GNU Health scales and adapts to your needs

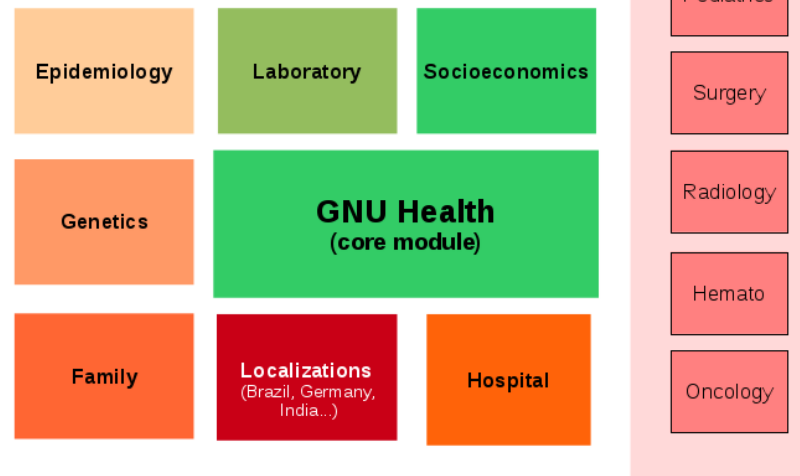


OLAP

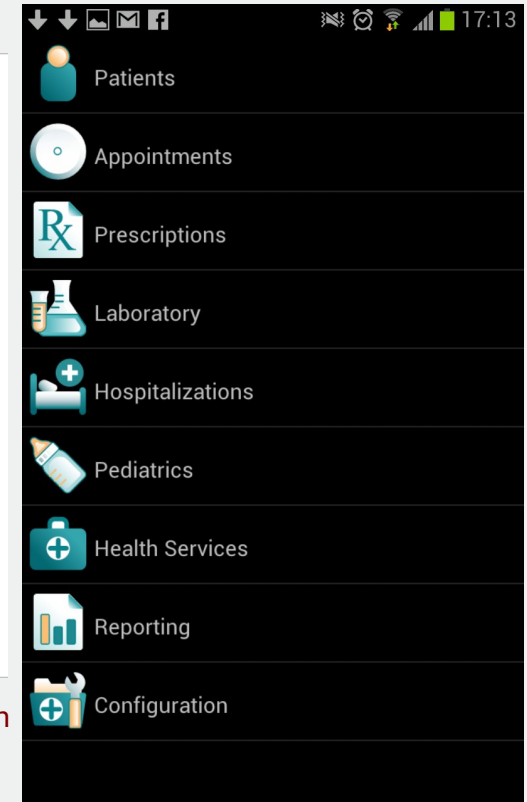


Interoperability

## GNU Health Modular Design



Modular design



Mobile client

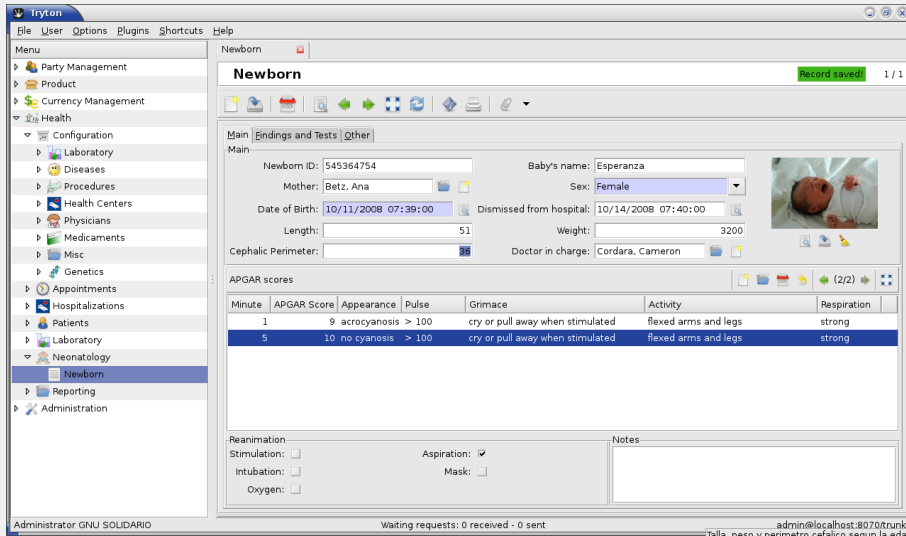


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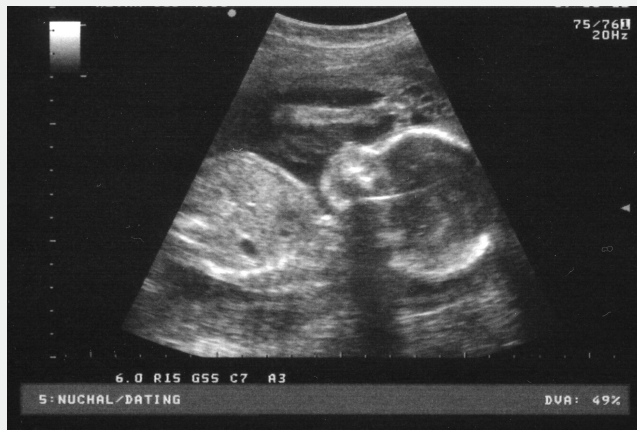


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# Obstetrics & Pediatrics



- Preconception and Prenatal Care
- Genetic Risks and counseling
- Obstetrical examinations and imaging
- Nutritional management
- Neonatology
- Socioeconomics (education / prostitution / slavery..)
- Immunizations
- Lifestyle / Diets / Habits / Addictions
- Psychosocial Risk (Massachussets General Hospital PSC)
- Family Functionality / Affection level





**433434**

**Name :** Juancito  
**Mother :** Betz, Ana  
**Mother's ID :** PAC001  
**DoB :** 2012-01-29 22:46:00



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**Male**

**2900 gr and 47 cm**



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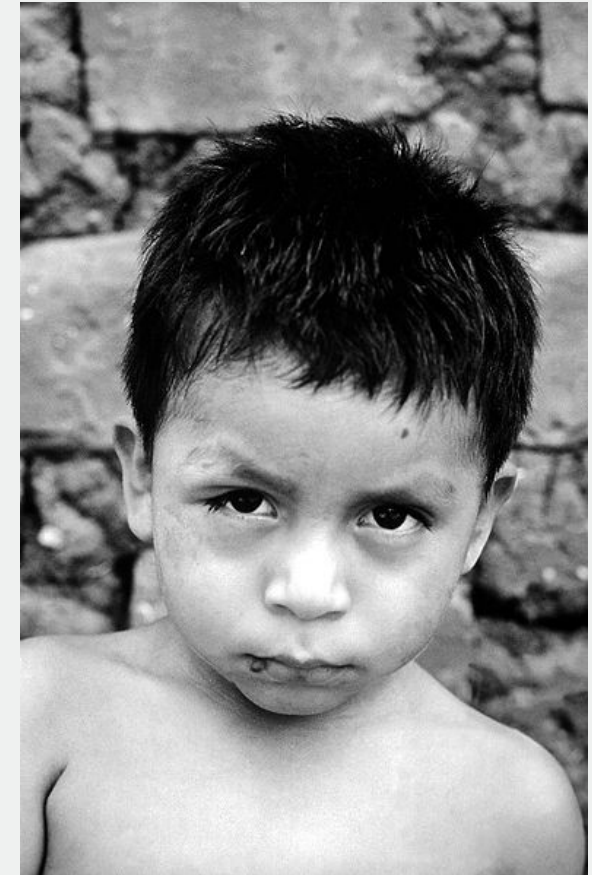


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# GNU Health : Helping to Eradicate the biggest killers



MDG 6 Module: Combat HIV, Malaria & Tuberculosis



NTD module : Fight Neglected Tropical Diseases (Chagas, Dengue Fever, Filariasis...)



# Community



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# Community : Public Hospitals – Lister Htal, Argentina



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# Community – NGOs : Africa Next Door, Ghana



AFRICA nextDOOR  
..serving underprivileged women and children



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# Community – United Nations University



UNITED NATIONS  
UNIVERSITY

UNU-IIGH

International Institute For Global Health

GNU Health Training at UN International Institute for Global Health, Kuala Lumpur, Malaysia



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# Thank you!

[health.gnu.org](http://health.gnu.org)



Health must be a Non-Negotiable human right



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