



# Yabarana FLOSS Talk

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Alejandro Imass

Yabarana Corporation

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Yabarana  
OPEN SOURCE SYSTEMS



# Contents I

## Open Source is Real

The Numbers

The Context

## Open Source Business Model

Proprietary Software Model

Collaborative Software Model

## Expanding the use of OpenSource

Legal Actions

Market Actions

Success Stories

# Who's this?



# And this?



# Johannes Gensfleisch zur Laden zum Gutenberg

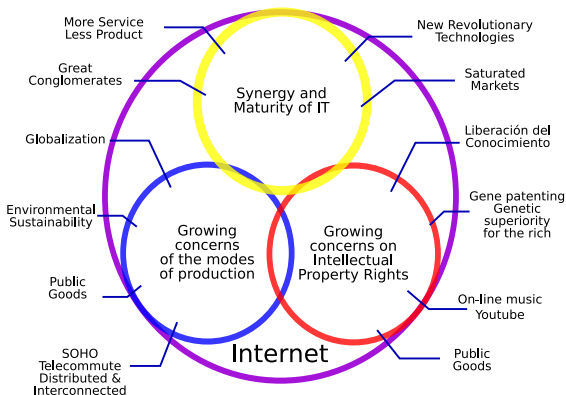
# Open Source Projects

- ▶ Probably more than 300,000 Open Source Projects right now:
  - ▶ SourceForge
  - ▶ FreshMeat
  - ▶ GNU Savannah
  - ▶ Google Code
  - ▶ Debian Alioth
  - ▶ Mac OS Forge
  - ▶ Forge.MIL
  - ▶ and the list goes on...

# Debian Counting

- ▶ Debian Woody: 879 developers for 23 years at a cost of \$26,860,200,000 - Details...
- ▶ Debian Sarge: 2043 developers for 39 years at a cost of \$175,286,700,000 - Details...
- ▶ Debian Lenny: 2659 developers for 46 years at a cost of \$315,195,900,000 - Details...

# Context





# Some references to the Context

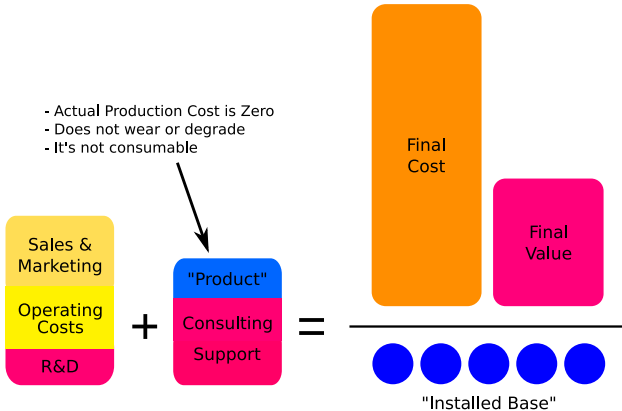
- ▶ Synergy and Maturity of IT
  - ▶ Carlota Perez: "Technological Revolutions and Financial Capital"
- ▶ Modes of Production
  - ▶ Eric S. Raymond: "The Cathedral and the Bazaar"
  - ▶ Yours Truly: "From Gutenberg to Vannevar Bush / The Evolution of Slavery"
  - ▶ Wim Vanhaverbeke & Joel West: "Open Innovation: Researching a New Paradigm"
  - ▶ Carlota Perez: "Change of paradigm in Science and Technology Policy", Cooperation South, TCDC-UNDP, No.1-2000, pp. 43-48

# Some references to the Context

Continued...

- ▶ Intellectual Property
  - ▶ Creative Commons
  - ▶ Linux, FreeBSD, OpenSource
  - ▶ Chesbrough: "Open Innovation"
  - ▶ Wim Vanhaverbeke & Joel West: "Open Innovation: Researching a New Paradigm"
  - ▶ The Music Industry
  - ▶ Genetics and Nano-Technology
- ▶ Other
  - ▶ Thomas N. Duening and others: "Technology Entrepreneurship"

# Cost, Price and Value



## Flaws in this model

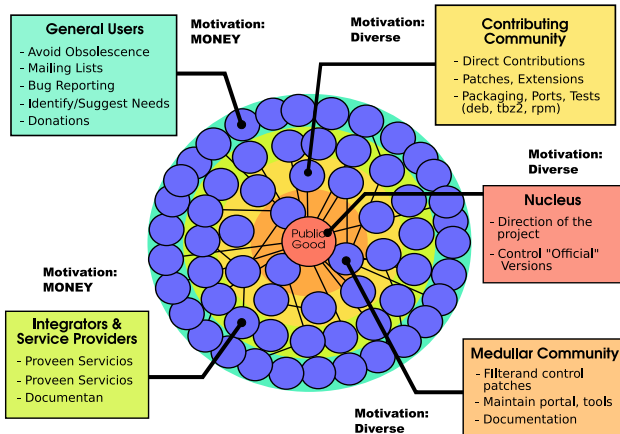
- ▶ No product/production cost!
- ▶ Software is not consumable, and does not depreciate
- ▶ Relies almost fully on IP as a competitive advantage
  - ▶ License to use
  - ▶ You don't own anything
- ▶ Software is encapsulated knowledge
  - ▶ Knowledge should not (or cannot) be patented
  - ▶ So, what's up with software patents?

## Flaws in this model

Continued...

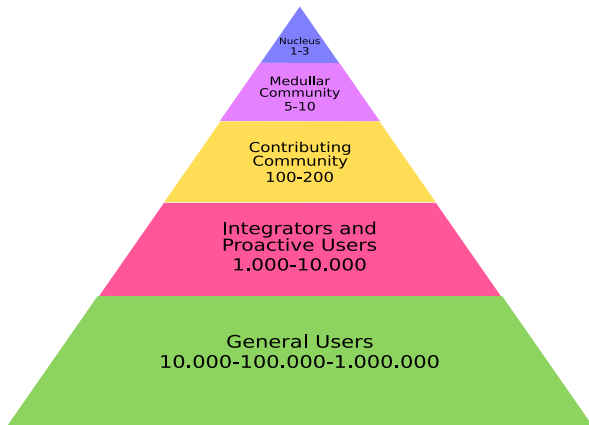
- ▶ Market value is artificial “Pricing Power” (a Cartel?)
- ▶ No way to “derive work” legally
- ▶ Not sustainable, definitively not “green”!
- ▶ It’s commoditizing anyway so who cares!

# Typical Open Source Software Community



# Typical Open Source Software Community

Continued...



Lobby/Push for Legislation the enforces or promotes the use of FOSS



## From: "Open Innovation", (Chesbrough 2003)

*There is no inherent value in a technology per se. The value is determined instead by the business model used to bring it to market. The same technology taken to the market through two different business models will yield different amounts of value. An inferior technology with a better business model will often trump a better technology commercialized through an inferior business model.*

## 3.390 Presidential Decree of 2004

- ▶ Designed by the local Hacker community
- ▶ Aligned and backed by State-owned companies
- ▶ Mandates the use of FOSS Technologies in the Public Sector in General

## “Ley de Infogobierno Law”

- ▶ “Technological Neutrality” proposed by proprietary vendors and associates
- ▶ Has been used by them in the past to stop any and all “Free Software Laws”
- ▶ The community through “SOLVE” aggressively fought off proprietary proponents in public discussions of the law
- ▶ After 9 months of intense discussion the project was dropped from the legislative agenda

# Venezuelan Ministry of Living and Habitat

MINVIH (now MOPVI)

- ▶ 11 Applications divided in about 100 Functional Modules
- ▶ 100 Administrative Apps (many are simple CRUD)
- ▶ 180 Database Tables
- ▶ Controller Code: 49,117
- ▶ View (PHP templates) Code: 44,412
- ▶ CSS code: 3,191

# Venezuelan Ministry of Living and Habitat

Continued...

- ▶ Java Script: 5,510
- ▶ Model (ORM) Code: 10,808
- ▶ SQL (DB procedures, functions): 7,594
- ▶ SQL Schema: 2,559
- ▶ Scripts and Utilities: 483
- ▶ Declarative Validation code (YAML): 3,138
- ▶ Configuration Code (YAML): 4,160
- ▶ Total around: 132K lines of code - 54 man/months
- ▶ Approximate Cost in 2007: USD 150K

# Oficina de Planificación del Sector Universitario

OPSU

- ▶ Bubble Test Model Designer (Web)
- ▶ Bubble Test Design Generator (SVG)
- ▶ Graphical Edition using Inkscape
- ▶ Interface to Printing Methods
  - ▶ Rotary Printing Backdrop + Variable Data
  - ▶ Full Variable (laser) PDF Generation
  - ▶ Mixed
  - ▶ SVG + LaTeX

# Oficina de Planificación del Sector Universitario

Continued...

- ▶ Canon ADF Scanner Driver
- ▶ Perl/GTK2 Scanning Application
- ▶ Test Correction and Web Publication
- ▶ Cost in 2010: USD 250K (first + second phases)

Questions? Thank you!