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# **Cooperatives and Free Software, Our experience with Tryton**

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**What is a cooperative?**

**Why a worker cooperative?**

**What does a cooperative mean for us?**

**Problems being a free software company**

**Our experience with Tryton**

My challenges:

- Non technical guy: Sociologist
- My English

## What is a cooperative?

- A cooperative is an autonomous association of persons united voluntarily to resolve their common economic, social and cultural needs and aspirations through a jointly owned and democratically controlled.

**Will / Needs**

## What is not a coop?

- A corporation.
- NGO
- A user group

It's a company... but a particular one.

## Seven cooperative principles

- Voluntary and open membership
- Democratic member control
- Economic participation by members
- Autonomy and independence
- Education, training and information
- Cooperation among cooperatives
- Concern for community



## Different types of cooperatives

- Services
- Consumers
- Worker
- Housing
- Credit unions
- Etc.

## Why a cooperative

- Cooperative by choice (will): We share the knowledge and the code we have, to share the profits, decisions & desires
  - Participation in decisions
  - Common growth
  - Many obtain more than one
  - Knowledge shared
  - Open organization
- 
- There is not recipe, not always a happy story.
  - Open organization

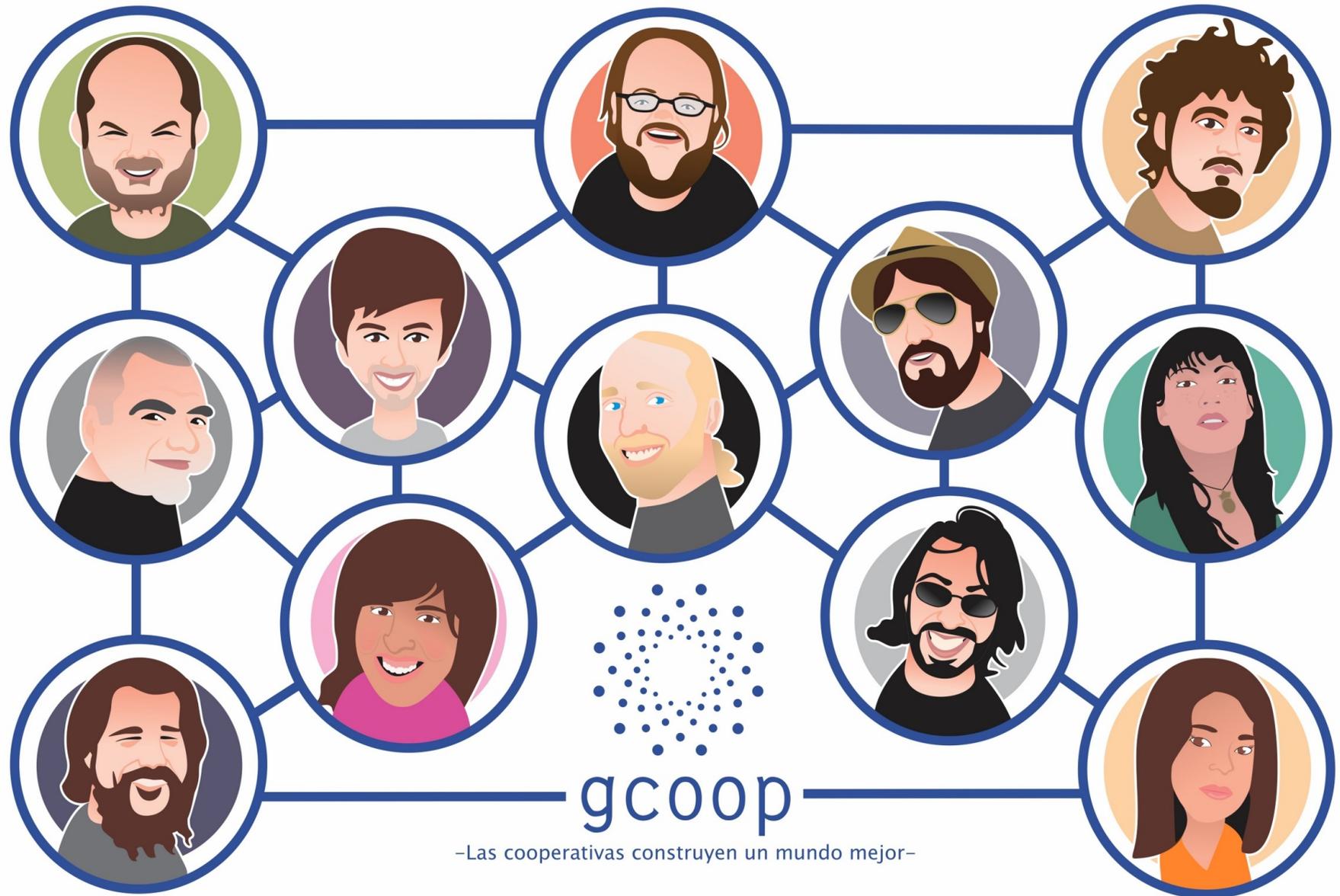
# Cooperatives and Free Software, Our experience with Tryton

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## **gcoop**

- gcoop is a free software company
- Created in 2007 by members of local Lugs and friends (6 people)
- Born with the need of building a Free Software Development company
- Company was consolidated after 2 years of operation
- Now we are 12. We don't want to be more
- We started working with Drupal and SugarCRM, and we are trying to work with Python
- Now: Drupal + Tryton + custom development (python + PHP)
- We work in projects, we not “sell developers”

# Cooperatives and Free Software, Our experience with Tryton



## Gcoop - work

- Work is not only finishing a job or satisfying a client
- Work like a team, growth together, learn together
- We Must: Promote Free Software
- We Must: Promote Cooperativism,
- Technological independence

# Cooperatives and Free Software, Our experience with Tryton

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## gcoop

- Foundress of CadESoL ([www.cadesol.org.ar](http://www.cadesol.org.ar))
- Members of Fecootra ([www.fecootra.org.ar](http://www.fecootra.org.ar))
- Foundress of FACTTIC ([www.facttic.org.ar](http://www.facttic.org.ar)). Our Federation, 22 worker cooperatives, most of them of software development.



## Free software comercial problems

- SugarCRM is not free as in freedom
- We investigated BI free software: the same
- We start with openERP and saw the same problem → Tryton

## Our experience with Tryton: printery budget

- We start at 2011
- Tryton 2.4
- About “Red Gráfica”: it's a group of printery cooperatives (20), they have the biggest supply of printery in Buenos Aires.
- They need a software to budget printery jobs.
- Printery jobs are very particular:
  - All jobs are different.
  - They need to calculate the use of paper and waste.
  - They need different amounts (fixed and variable costs)
  - They need different units of measure (sheet / kilo)

## Our experience with Tryton: printery budget

- We made a Wizard that helps to complete the Sale Budget
- We make changes in products ( in order to add the paper measures and the machine configuration)
- We add “Another Ammounts” tab
- We made some report
- We made a “work orders” module
- In 2013 we add support to reel machines.

[https://github.com/gcoop-libre/trytond\\_sale\\_printery\\_budget](https://github.com/gcoop-libre/trytond_sale_printery_budget)

<http://sale-printery-budget.readthedocs.org/en/latest/>

## Our experience with Tryton: printery budget

The screenshot displays the Tryton ERP interface. The top bar shows the system name 'Tryton', the current time 'mié 11:57', and system status indicators. The left sidebar contains a menu with categories like 'Gestión de entidades', 'Ordenes de Trabajo', 'Academias', 'Producto', 'Contabilidad', and 'Administración'. The main window is titled 'Productos' and shows a form for editing a product named 'Maquina Roativa'. The form includes fields for 'Nombre', 'Código', and 'Activo'. Below these are several input fields for production metrics: 'Cambio de Plancha', 'Preparación (por cada color)', 'Impresiones por hora (Rápido)', 'Impresiones por hora (Medio)', 'Impresiones por hora (Lento)', 'Impresiones por kilogramo de tinta', and 'Boca de corte [cm]'. The bottom status bar shows 'Administrador - gcoop [Peso argentino]', 'Solicitudes en espera: 0 recibidas - 0 enviadas', and the user email 'admin@avioncito:8001/demo'.

Actividades Tryton mié 11:57 0B/s 0B/s es

Tryton  
Archivo Usuario Opciones Extensiones Acceso directo Ayuda

Menú  
▶ Gestión de entidades  
▶ Ordenes de Trabajo  
▶ Academias  
▼ Producto  
  ▶ Productos  
  ▶ Categorías  
  ▶ Unidades de medida  
▶ Contabilidad  
▶ Gestión de divisas  
▶ Gestión de Inventarios  
▼ Gestión de ventas  
  ▶ Configuración  
  ▶ Ventas  
▶ Administración

Productos 5/5

Productos

Nombre: Maquina Roativa Código: Activo:

General  
Cambio de Plancha:   
Preparación (por cada color):   
Clientes  
Impresiones por hora (Rápido):   
Impresiones por hora (Medio):   
Contabilidad  
Impresiones por hora (Lento):   
Impresiones por kilogramo de tinta:   
Mediciones de Maquina  
Boca de corte [cm]:

Administrador - gcoop [Peso argentino] Solicitudes en espera: 0 recibidas - 0 enviadas admin@avioncito:8001/demo

## Our experience with Tryton: Cooperative ERP

- We want to sale Tryton, to make a product with it, we need to reduce the cost to localice.
- We were chosen to be part of the “Cluster of Free Software” with the support of the “Ministry of Science” with the project: ERP software for Argentinian work cooperatives.
- Main objectives:
  - Account Coop Ar
  - Electronic invoice (with different types of invoice)
  - Manage cooperative partners (something like hrm but for partners)
  - Cooperative Balance
  - Administration of cooperative (minutes)

## Our experience with Tryton: Cooperative ERP

- We have almost done and released as free software:
  - [https://github.com/gcoop-libre/account\\_coop\\_ar](https://github.com/gcoop-libre/account_coop_ar)
  - [https://github.com/gcoop-libre/account\\_invoice\\_ar](https://github.com/gcoop-libre/account_invoice_ar)
  - [https://github.com/gcoop-libre/cooperative\\_ar](https://github.com/gcoop-libre/cooperative_ar)
- Next steps:
  - Finish the project
  - Start with a Success story
  - Commercialize

### With Tryton Foundation

- Strengthen our participation in the foundation and in the software.

# Cooperatives and Free Software, Our experience with Tryton

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**GRACIAS!**

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[www.gcoop.coop](http://www.gcoop.coop)

<https://github.com/gcoop-libre>

<https://twitter.com/gcooplibre>

<https://www.facebook.com/cooperativagcoop>