



FLOSS Public Policies in Brasil

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Roadmap

1)The Brazilian Public Software Portal

- 1)FLOSS in Brazilian government
- 2)The sharing initiative
- 3)Creating the ecosystem
- 4)Economic and Social impact

2)La Red Colaborativa de Software Livre y Abierto (RCSLA)

3)UNDP Project: International Public Software





FLOSS in Brazilian Government



Software Livre en Gobierno

“Em um mundo onde conhecimento, informação, criatividade e inovação são fatores de riqueza, a diversidade cultural é para ser reconhecida e explorada como fator de riqueza.”

Source: Livro Verde - A sociedade da Informação no Brasil



FLOSS in Government

“In a world where knowledge, information, creativity and innovation are wealthiness factors, the cultural diversity must be recognized and explored as wealthy factor.”

Source: Livro Verde - A sociedade da Informação no Brasil (Free translation)



FLOSS Regulations

- SISP Decree: it defines the government area responsible for informatics and information policies
- Decree from October, 29, 2003: e-Gov technical committees:
 - FLOSS implementation
 - Legacy systems and software licenses
 - Systems integration
 - ...



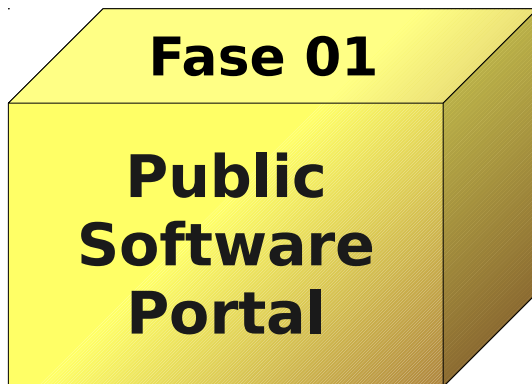
FLOSS in Government







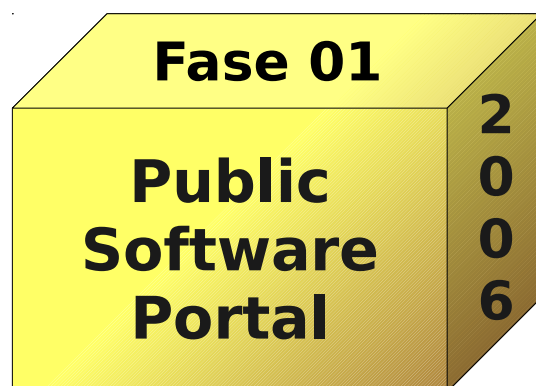
First Design



- Idea: to share software solutions in government
 - First experience: **CACIC**
- Answer to the Brazilian FLOSS community
- **Legal study** about GPL in **Brazilian law**

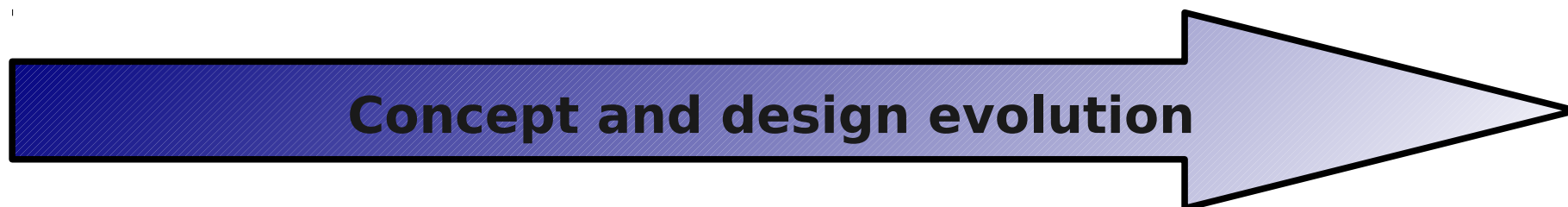
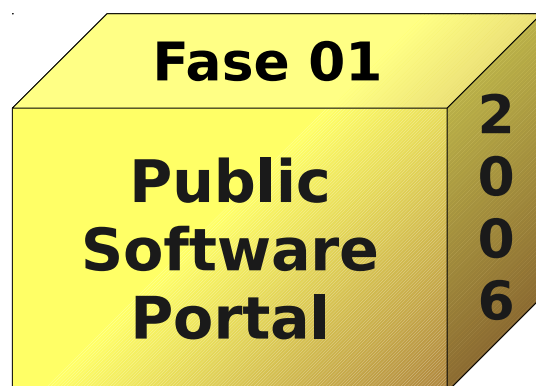


Project Evolution



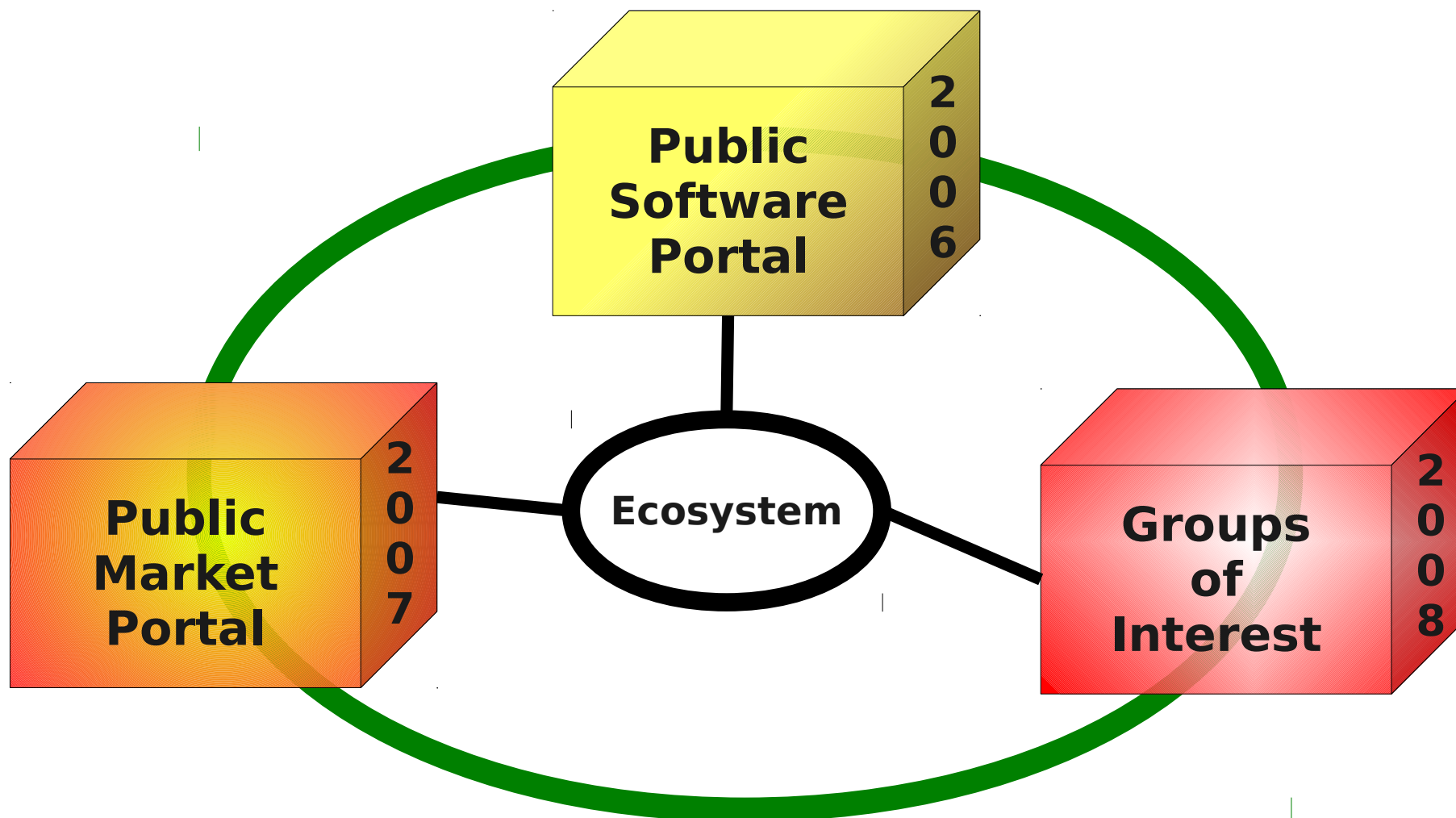


Evolución del Proyecto



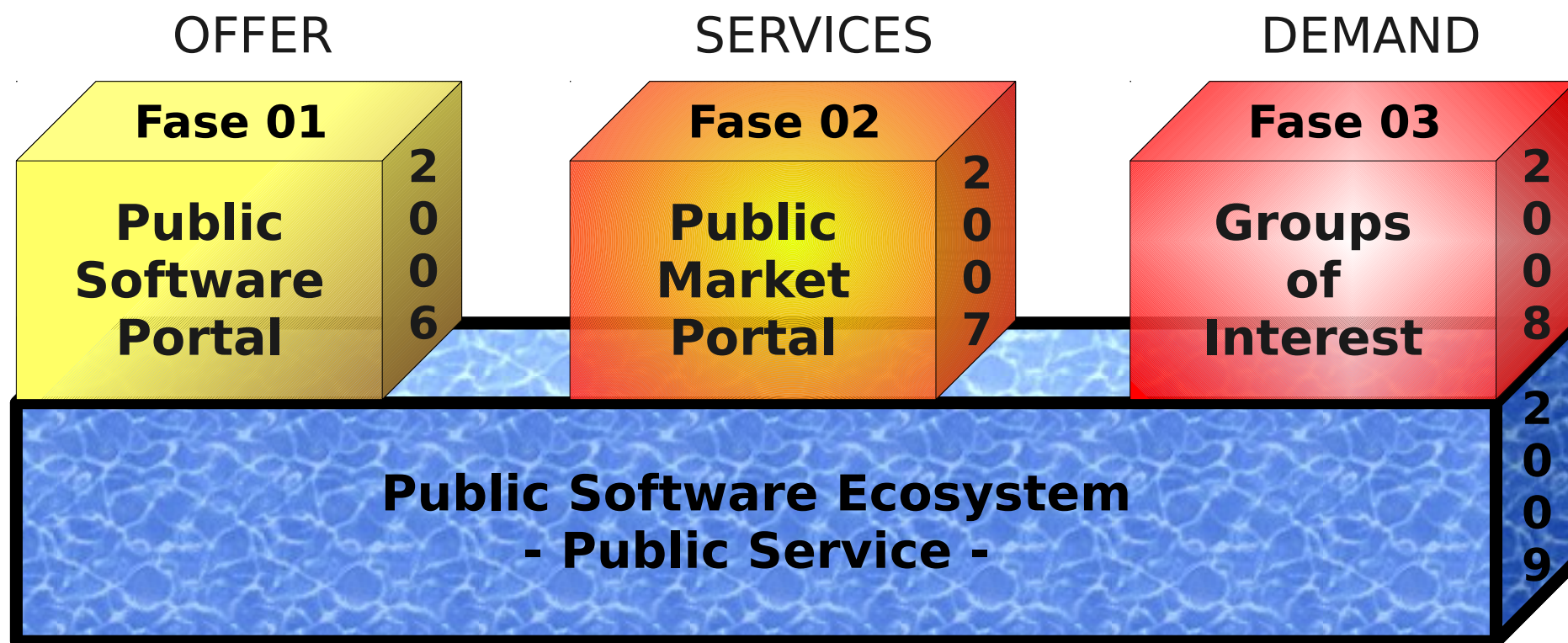


Ecosystem



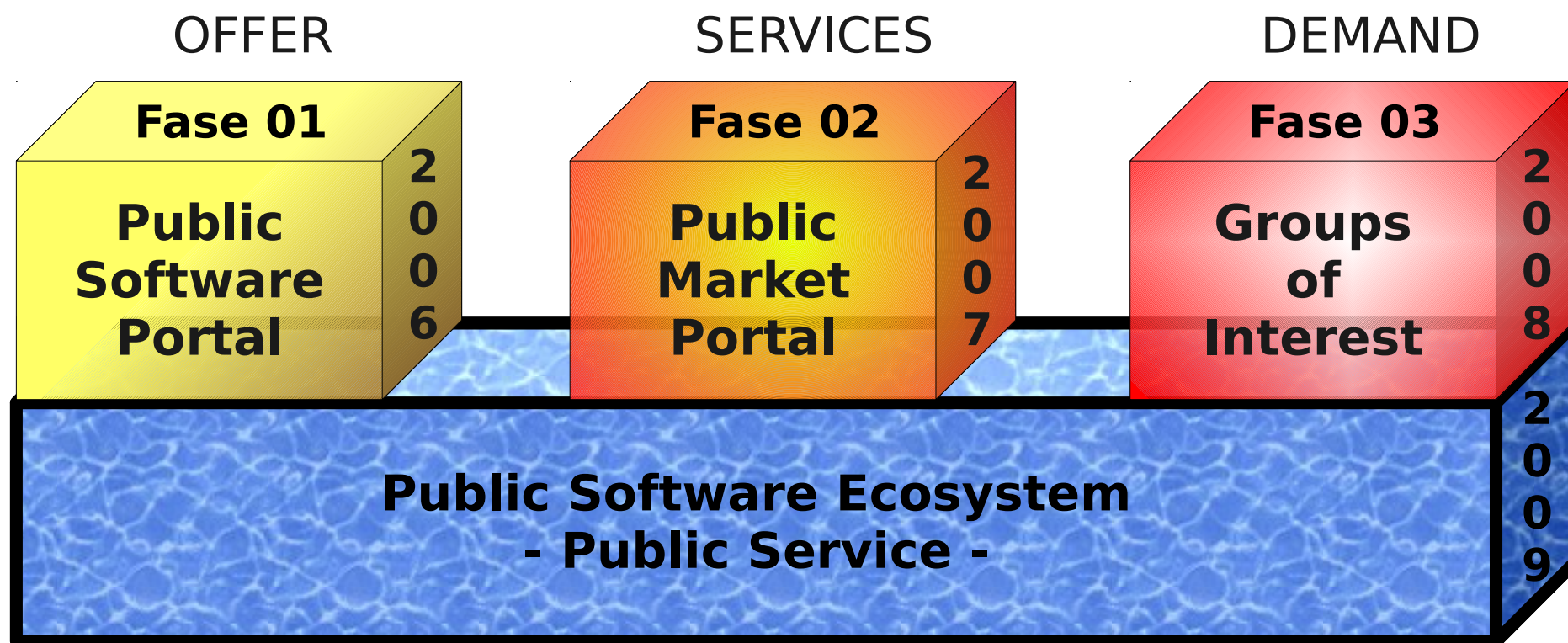


Project Evolution





Project Evolution



Challenge: a new model for software industry



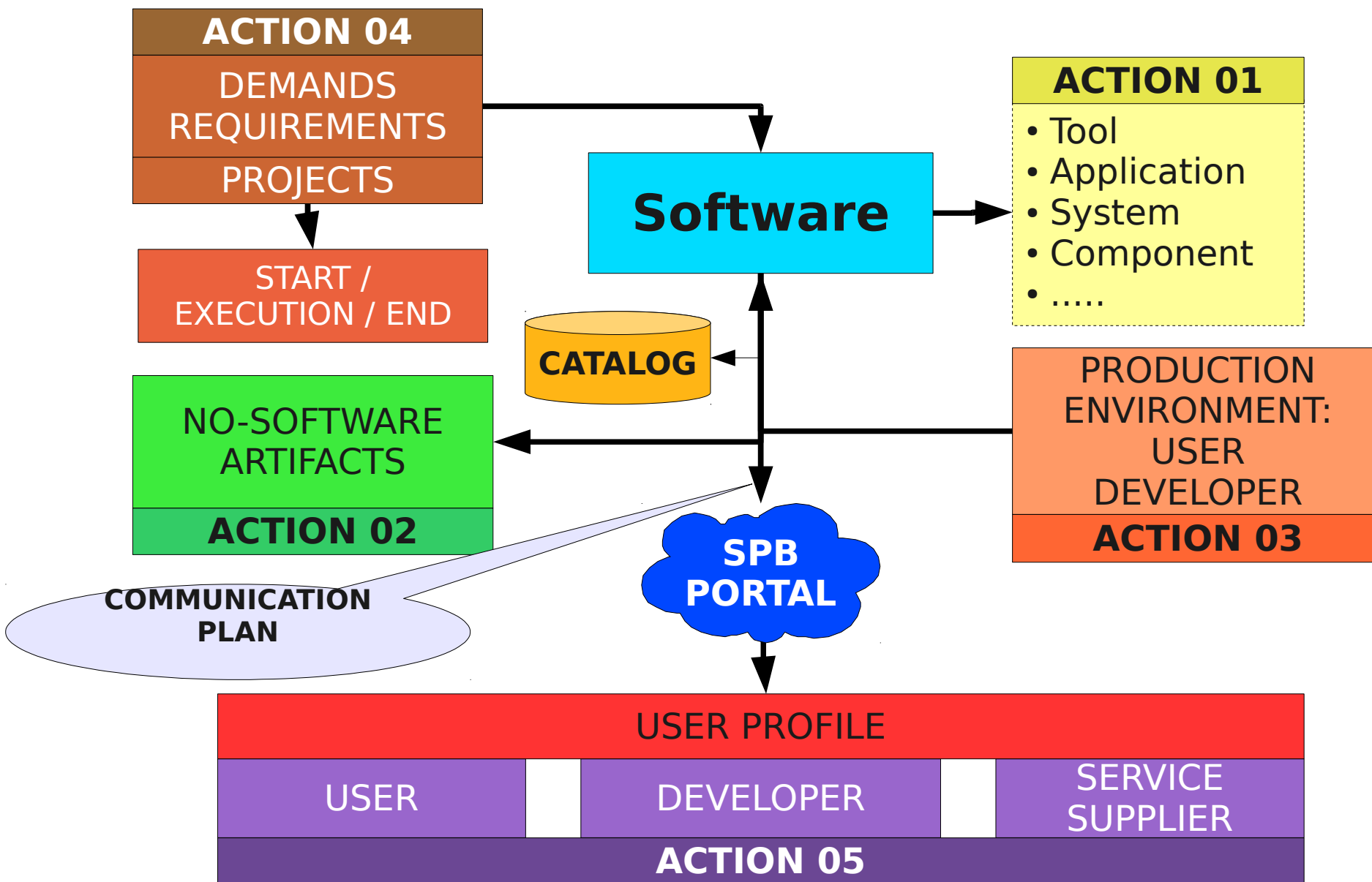
Service Dimensions

**Software
Público
- Portal -**

**Software
Solutions for
Society**



Opportunities





Summary

- The Brazilian model is able to move a lot of sectors in economy
- There are opportunities in all areas: management, education, research, regional development, e-Gov



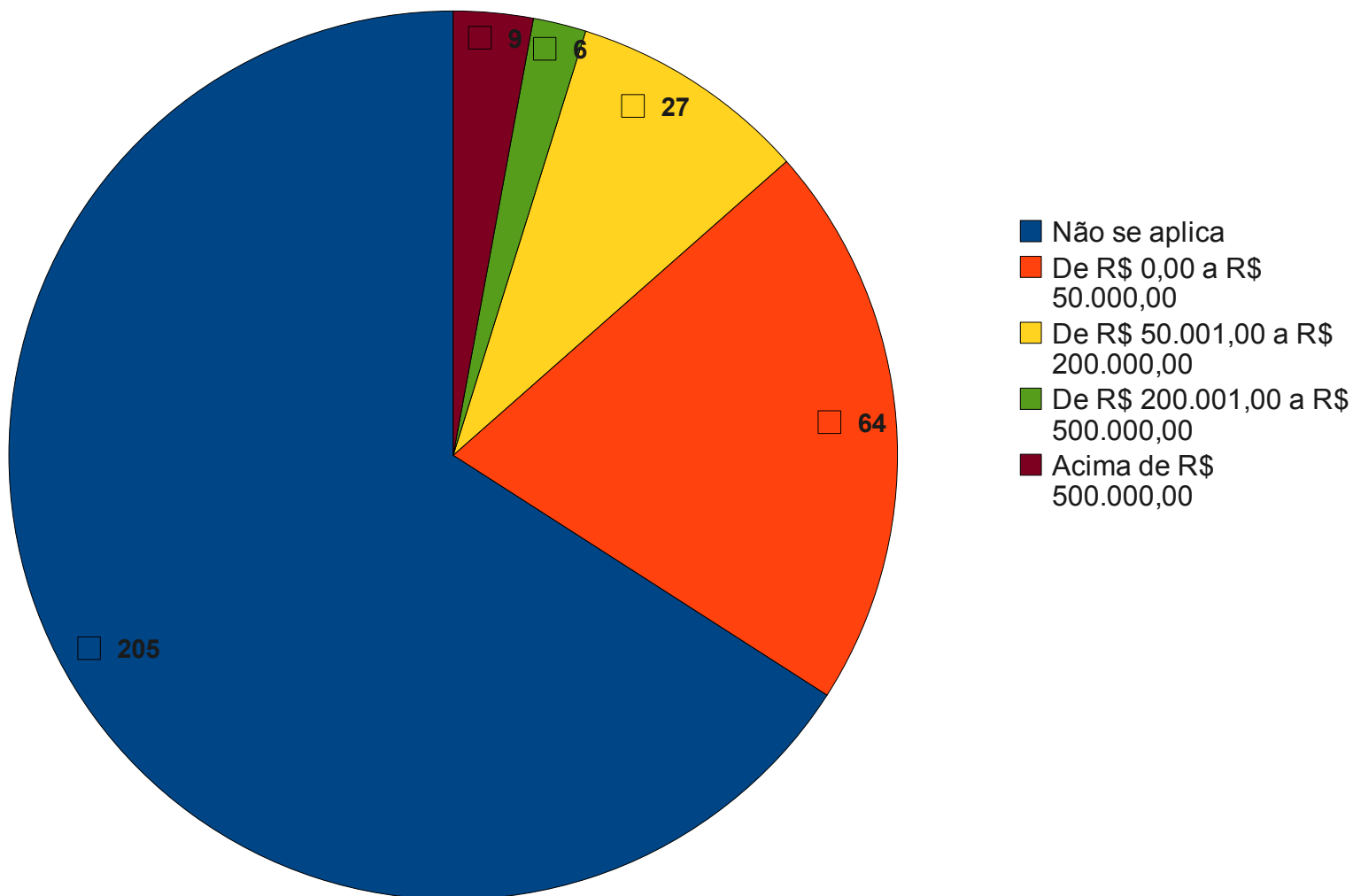
Numbers

- **34** Software Communities
- **45.000+** registered users
- **67.000+** visitors/month
- Only in Brazilian Government, the economy is **US\$ 3.750.000,00+**
- **300+** forums messages/month

Numbers

Estimated Economy for Federal Government

Considering only Executive, Legislative and Courts



Minimal economy in federal government: **R\$ 7.050.006,00**



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Applications



GSAN

- Wather and sewage management system
- Complete ERP solution for wather companies
 - Budget control
 - Water flow control
 - Print bills
- Paraguay case: better fundraise in the country history (just with the system)



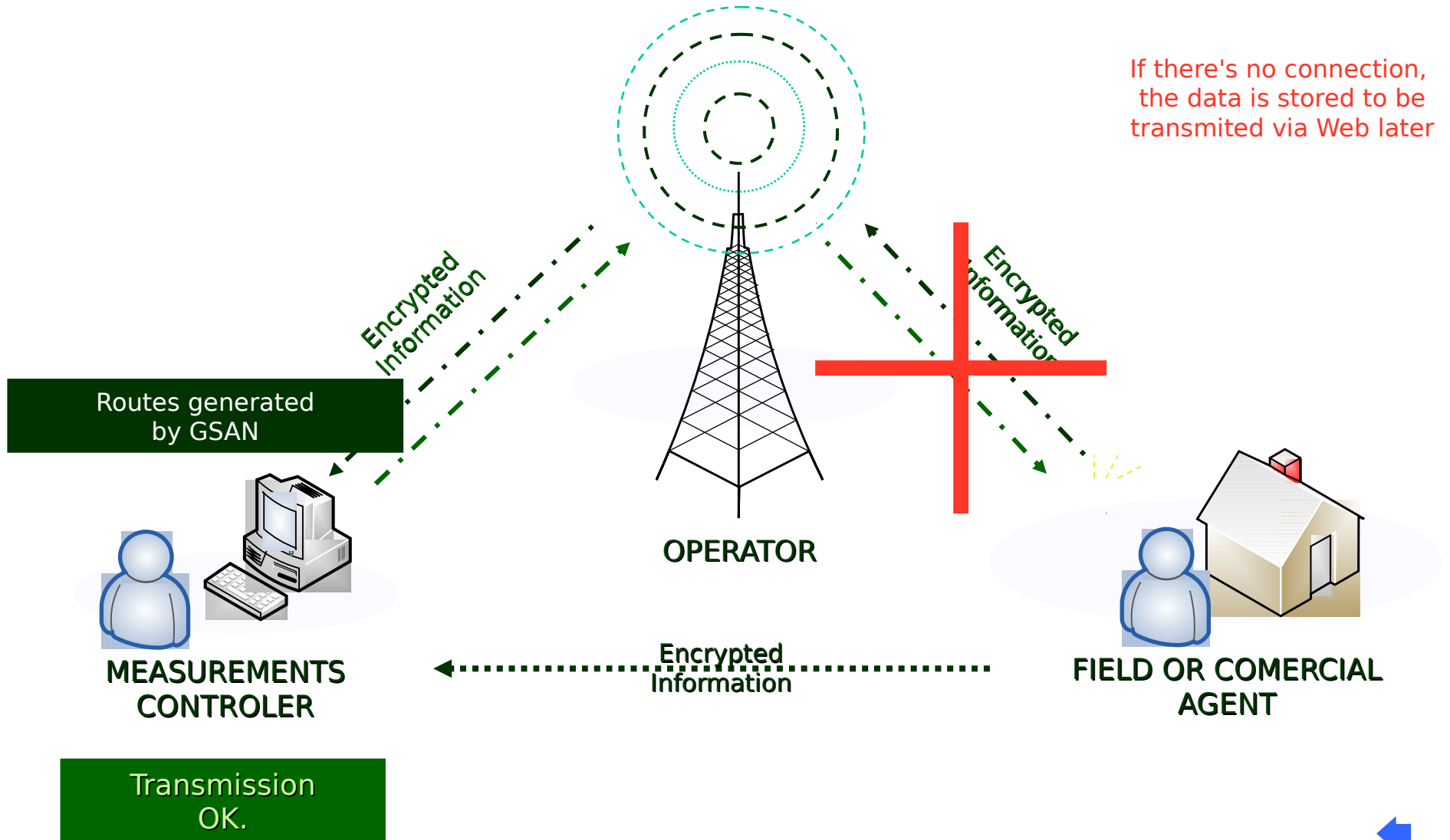
GSAN - Technologies



- Struts 1.1
- Jasper Reports 1.2.2
- Java 1.5.0
- Hibernate 3.1
- Java Help 2.0
- JSTL 1.1
- Quartz 1.5.2
- Pager-Taglib 2.0
- EJB 2.0
- Ireport 1.2.2
- Eclipse 8.1.4
- RedHat 3.4.6-3
- Jboss 4.0.1-SP1
- Postgres 8.2.4



GSAN





GSAN



Company	State
CAGEPA	PB
CASAL	AL
DESO	SE
DAAE Araraquara	SP
SAAE Jacareí	SP
URBAN São José dos Campos	SP
AGESPISA	PI
EMBASA	BA
CAERD	RO
SANECAP	MT
Águas do Amazonas	AM
CASAN	SC
COMPESA	PE



GSAN

Clients

- Compesa - 1.900.000 Residences (*feb/2007*)
- Caern - 700.000 Residences (*apr/ 2007*)
- Caer - 90.000 Residences (*sep/ 2007*)
- Caema - 900.000 Residences (*nov/ 2008*)
- AdA - 400.000 Residences (*jan/2009*)
- SAAE-Juazeiro (BA) - 40.000 Residences (*sep/2009*)
- Cosanpa - 600.000 Residences (*oct/2009*)
- Embasa - 3.000.000 Residences (*implementing*)



GSAN - Mobile

Tested Equipments

Smartphone

E61, E62, E61i, E71 e E63 - Todos Nokia

Printers

RW 420 - Zebra

- *Testing other models*





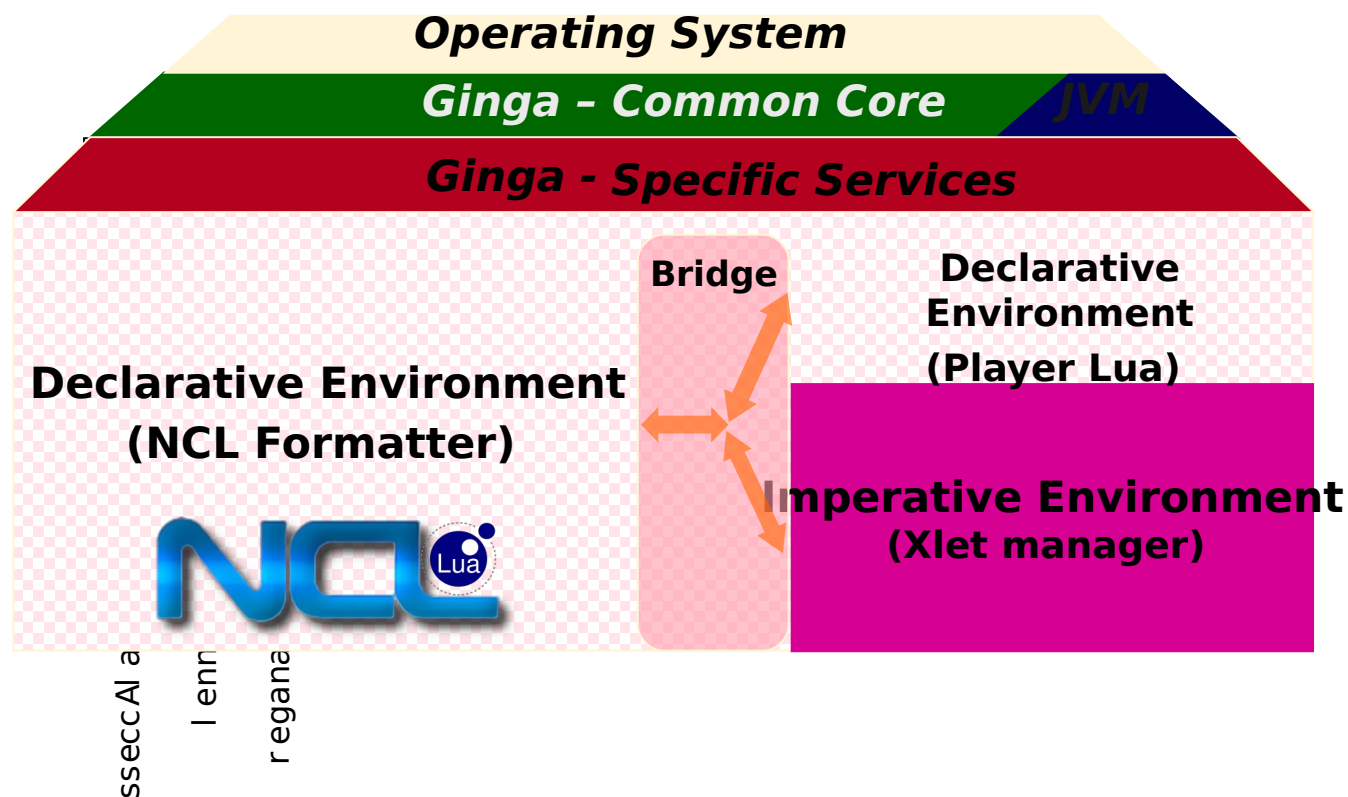
Ginga

- Digital TV Middleware
- First one in the world **99,99% Free Software**
- Brazilian standard is ready to interactivity in mobile applications





Ginga - Middleware





e-Cidade

- Complete management solution for municipalities
- Tax payments, Finance, Education, health



e-cidade

Software Público de Gestão Municipal



e-Cidade

Áreas

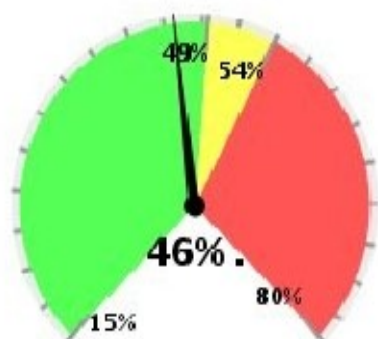




E-Cidade: Indicators Control

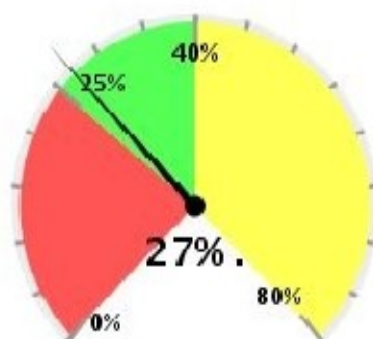
Painel de Controle - Limites Constitucionais

Despesas com Pessoal



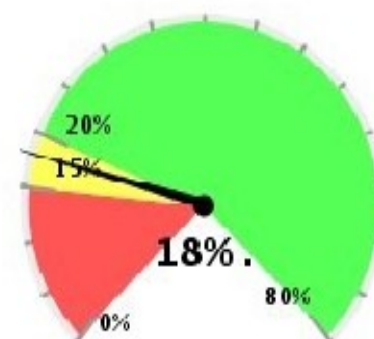
Limite Alerta Crítico

Despesas com Educação



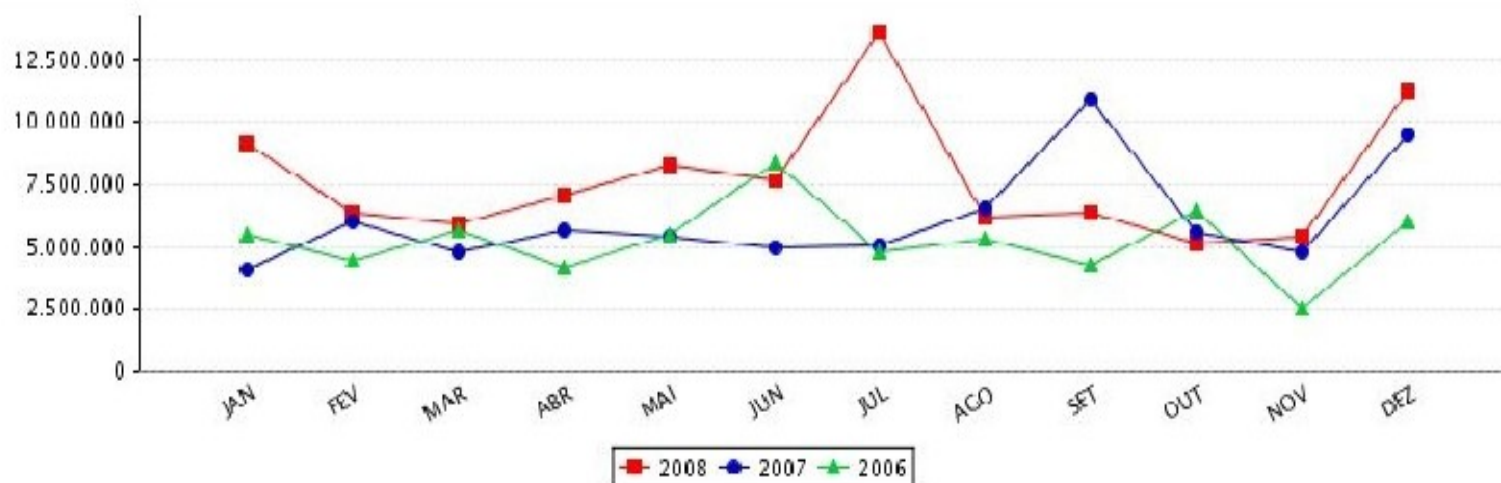
Crítico Limite Atenção

Despesas com Saúde



Crítico Atenção Limite

Evolução da Despesa Geral

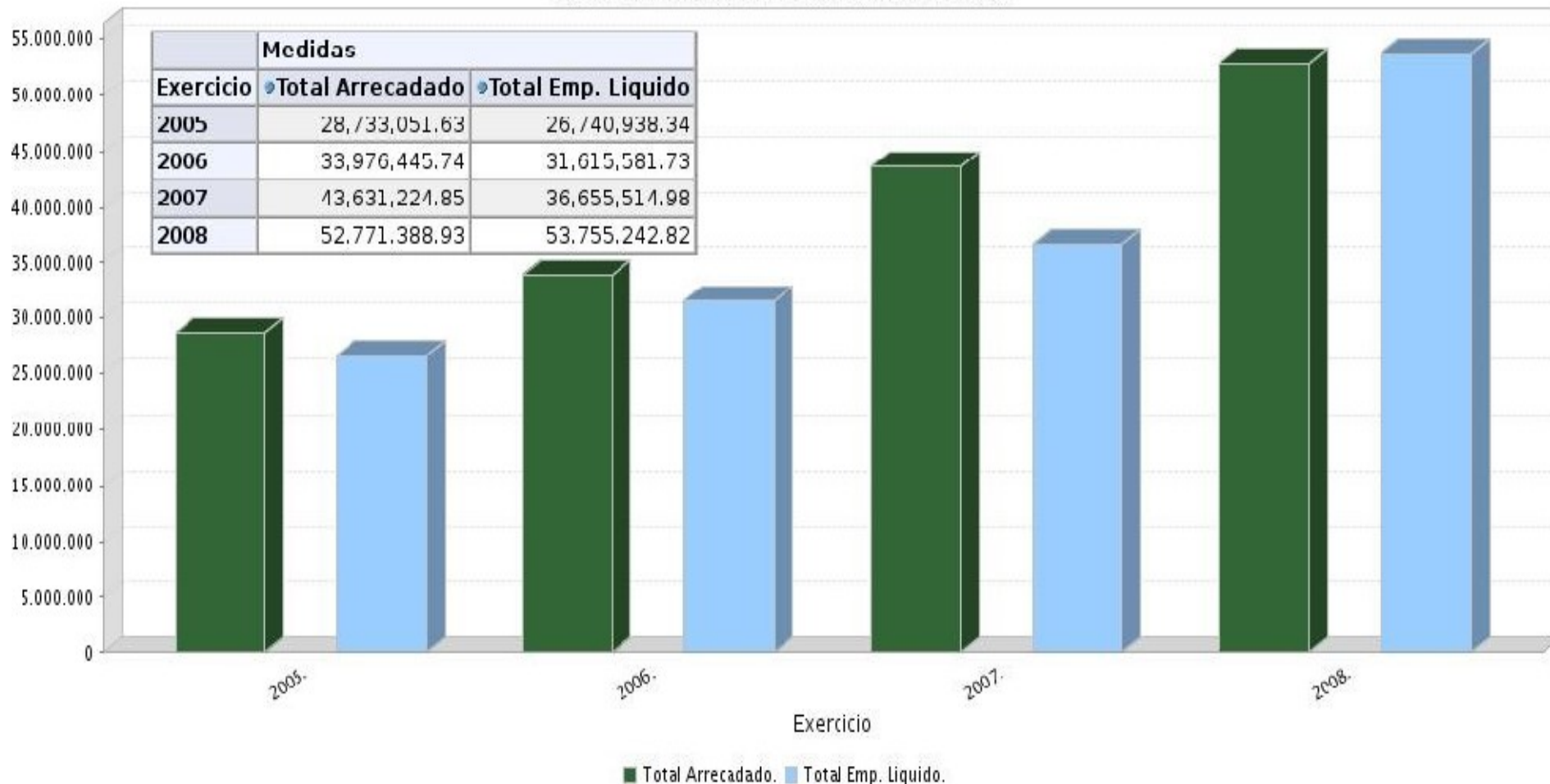




E-Cidade: Finances

Evolução da Receita e Despesa Executada

Filtro: Instituicao=PREFEITURA MUNICIPAL EXEMPLO



Budget X Expenditure

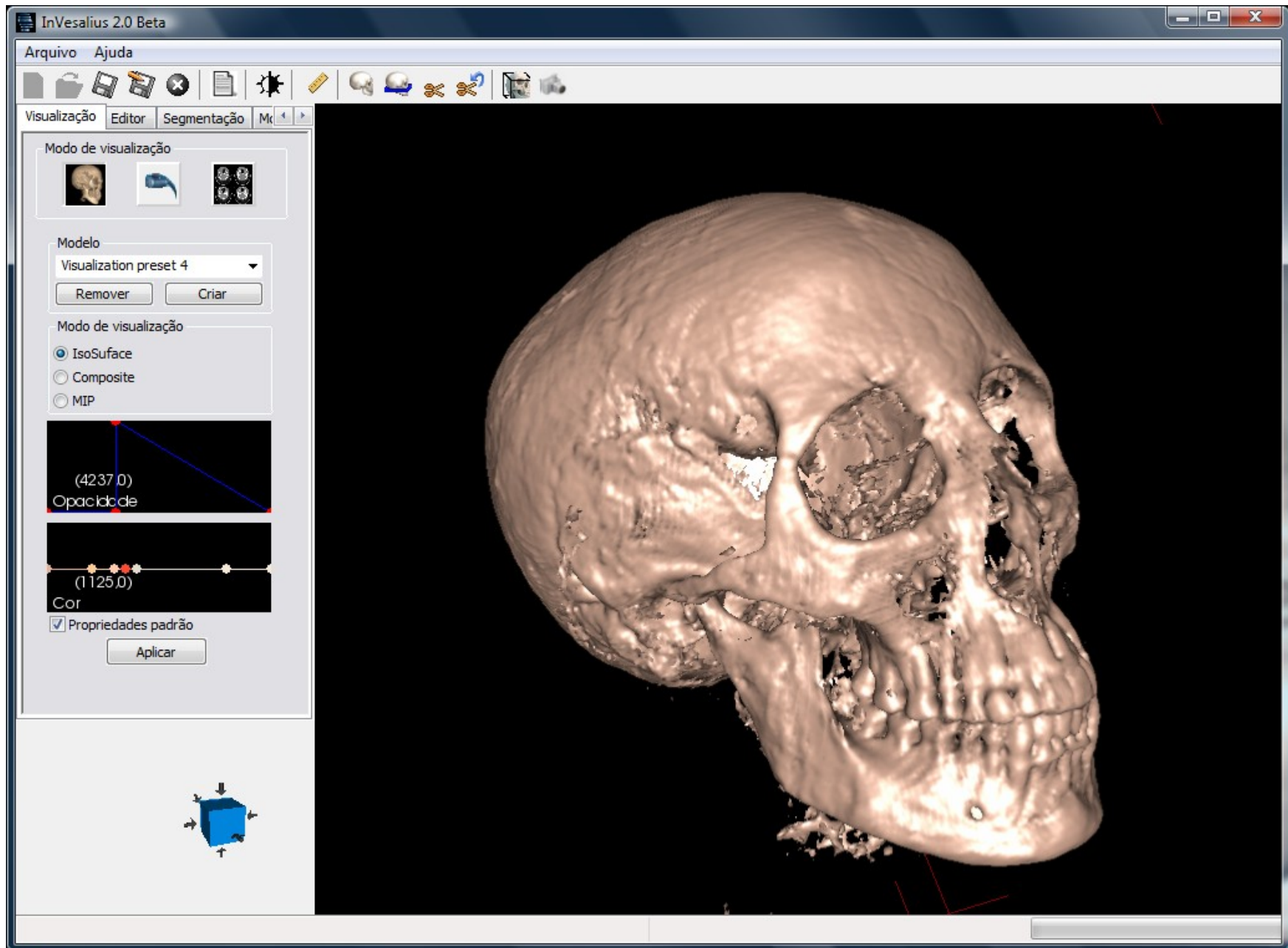


InVesalius

- 3D Images Reconstruction
- Direct integration with CT Scans
- Prototype construction (with 3D printers)
- Medical surgery aid

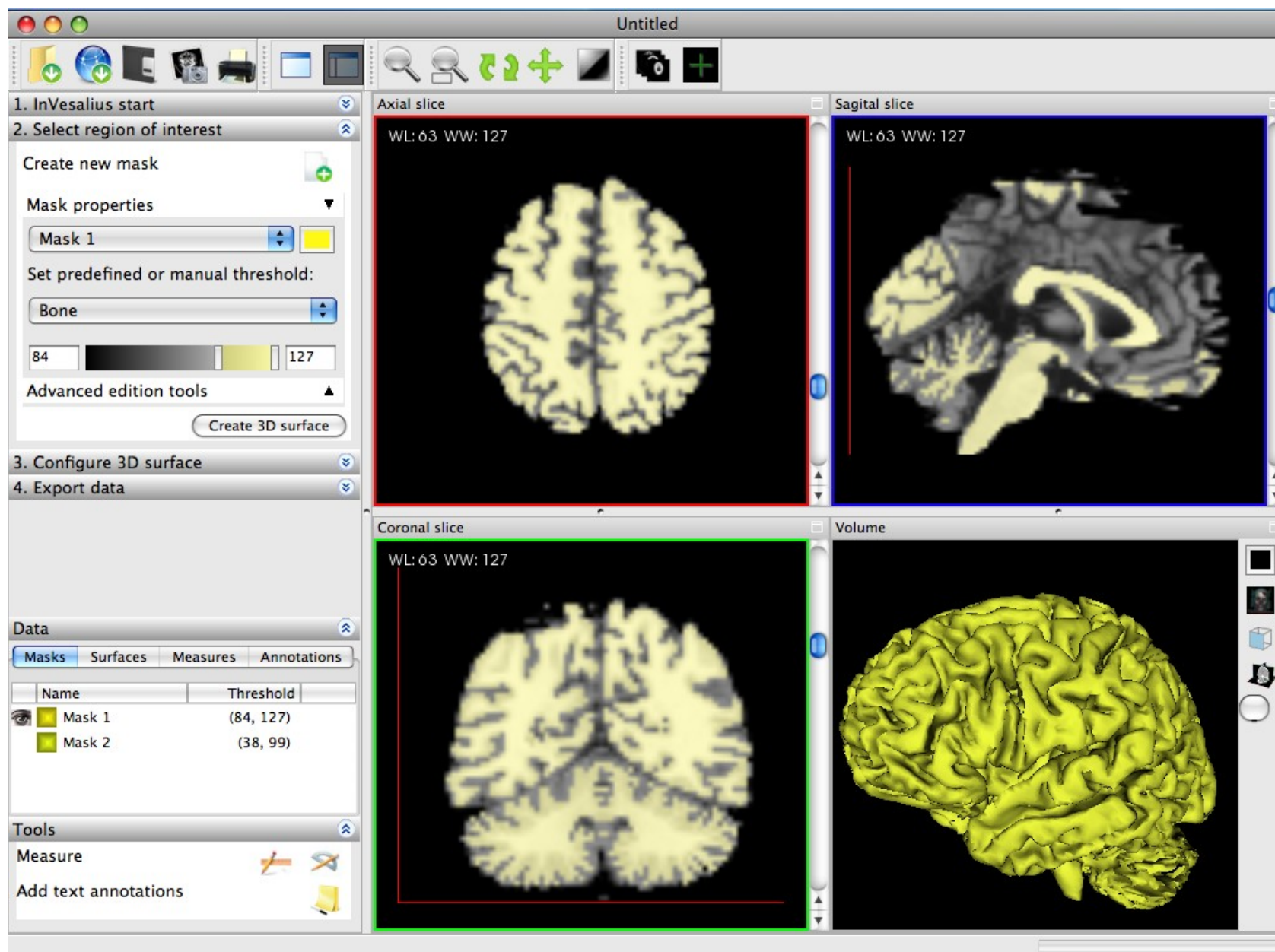


Invesalius: 3D Reconstruction



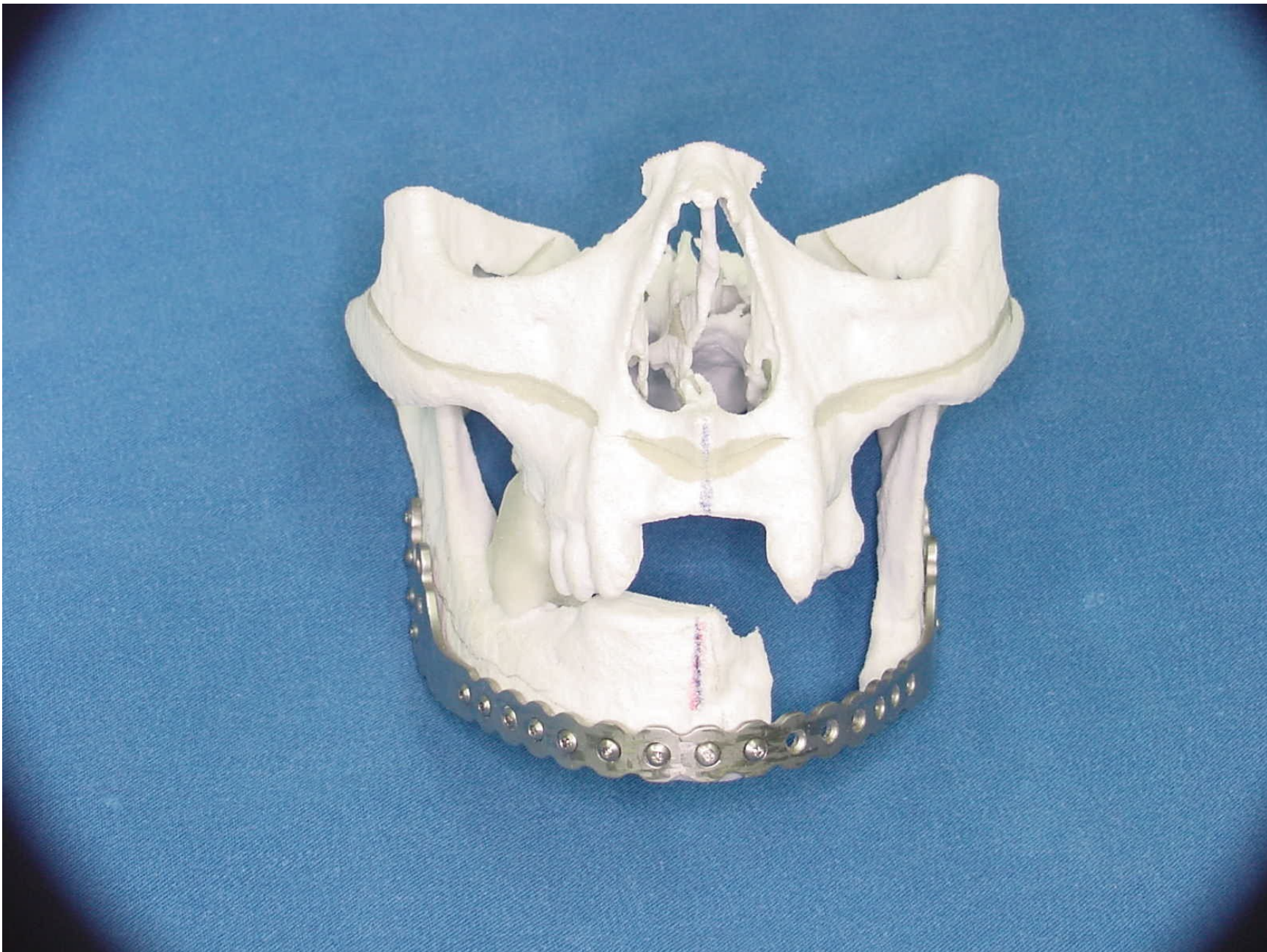


Invesalius: 3D Reconstruction





Invesalius: Prototype



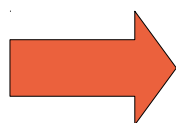
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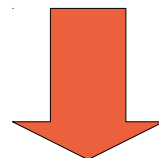
The International Public Software



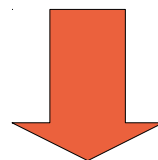
History



UNDP talked to us about the creation of a FLOSS development reference school



We enter the RCSLA together with the UNDP and the UFMG





RCSLA



- Objective: to ensure greater independency from the developed countries
- Answer to regional demands
- Use **FLOSS** as a tool for development



RCSLA

“A map is needed of the competencies of Latin American universities, private enterprises, non-governmental organizations, and governments in information and communication technologies, with an initial focus on the areas of e-government and e-governance.”

Source: <http://rcsla3.dcc.ufmg.br/principal/en/projeto>



Joining RCSLA

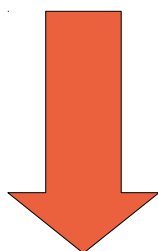
“...for an institution to participate in the network, all that is needed is cooperation with any of the institutions that are already part of the network. It must be pointed out that the absence of any concentration is certainly a factor for the robustness of the network.”

Source: <http://rcsla3.dcc.ufmg.br/principal/en/documentos>

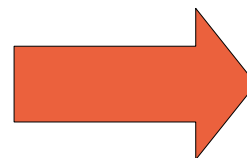
History



Free and Open Source Collaborative Network

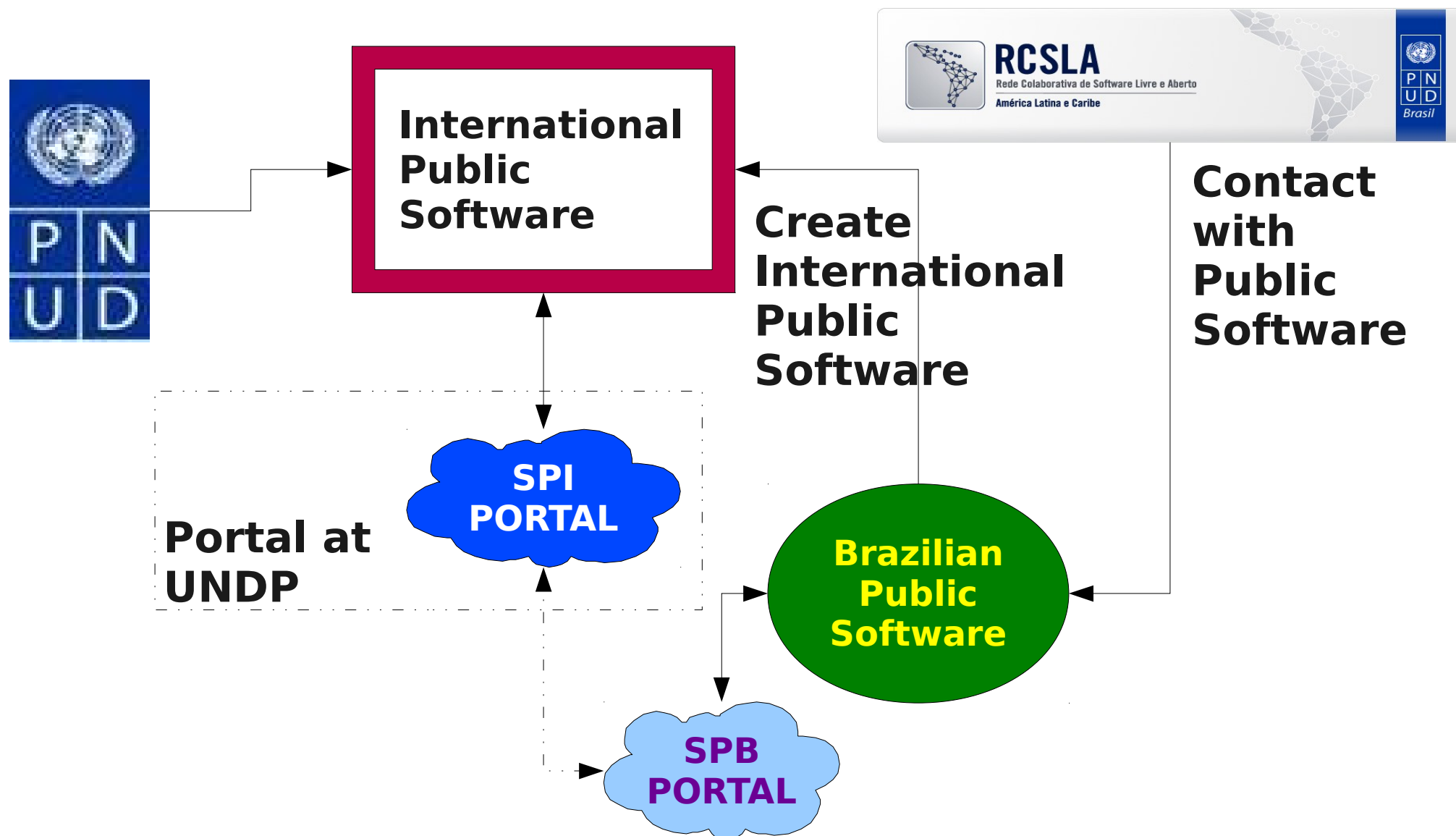


UFMG
First Cell

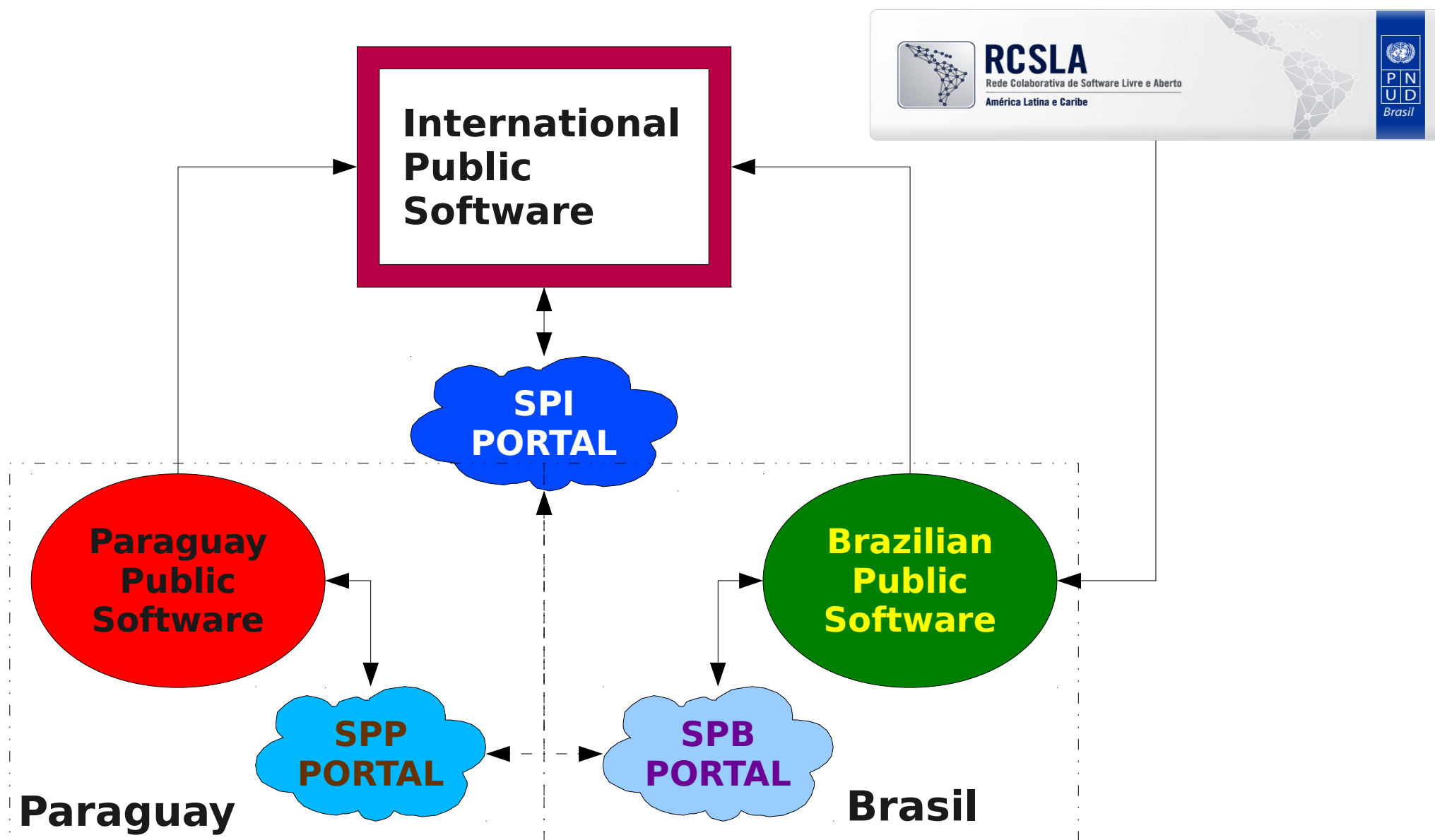


Brazilian Public
Software Portal

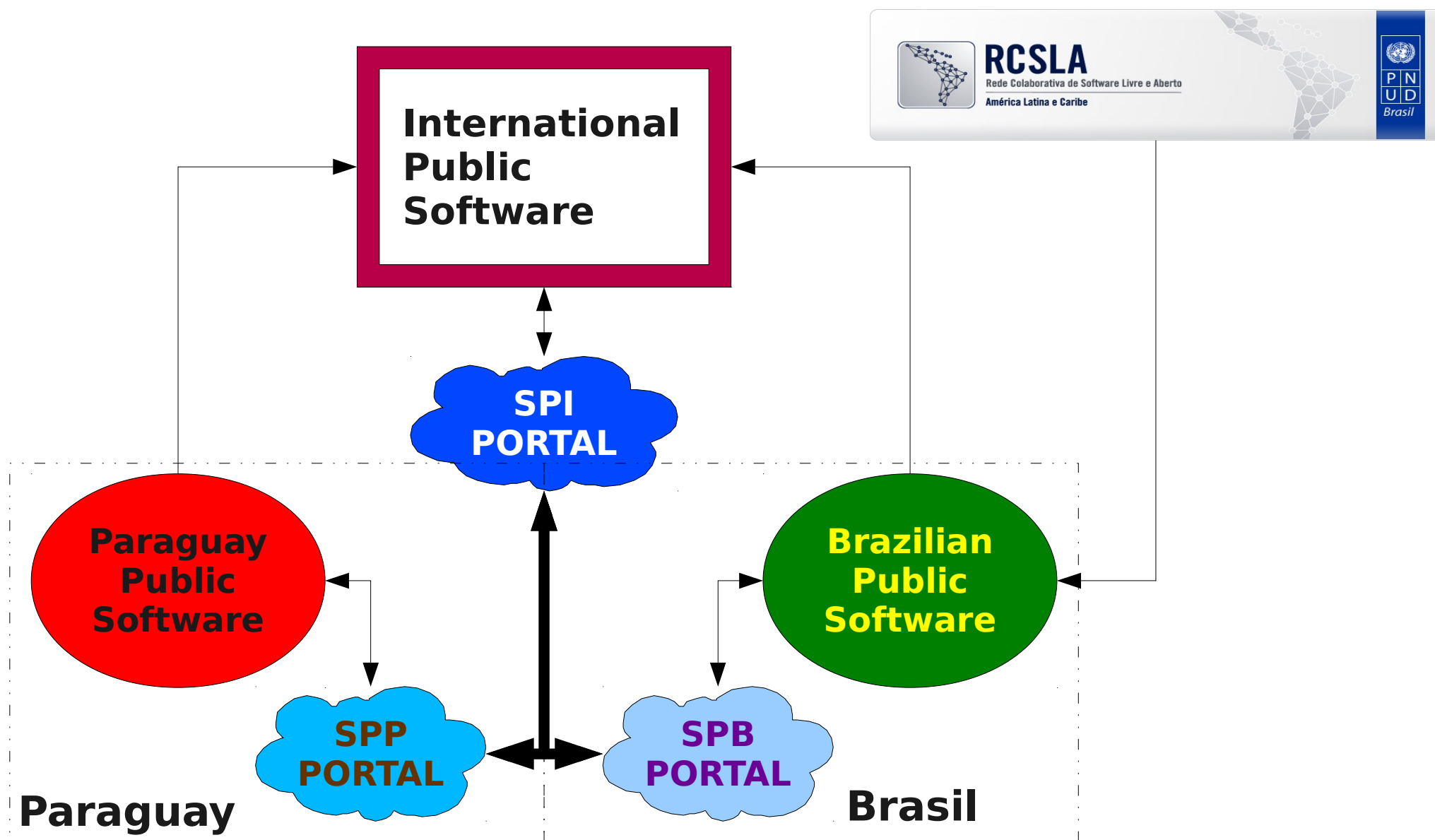
Project Format



Paraguay Joint



Paraguay Joint





Future

- Promote Public Software in Ibero America
 - Since 2009, the project is now part of CLAD (Centro Lation Americano de Administración para el Desarrollo)
 - The public software is already on Brasil, Paraguay, Peru, Guatemala, Uruguay and Mexico.
- Work with groups of interest
- Foster regional small companies development



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