

**Team:**

Silvana Nobre

Renats Trubins

Jose Guilherme Borges

Luiz C Estraviz Rodriguez



# **Forsys Country Reports on the Semantic Wiki**

**Preliminary results**

## **Content:**

- 1. First Steps**
- 2. Examples**
- 3. CR information design**
- 4. Wiki property structure**
- 5. Next Steps**

## 1. First Steps

**Atrium & ForEAdapt & USP resources**  
Silvana Nobre,  
Renats Trubins,  
André Gracioso (USP graduate student)

### **CR Analysis**

- Excel spreadsheets analysis made by Jose Borges&Team on Problem type definitions
- Readings: CR, Ola&Jordi Modeling Analysis, Harald KM analysis

### **Database design & creation**

- Design a database and an environment (screens) to facilitate data input

### **Brazilian DSS on Wiki**

- Contact DSS providers in Brazil to input on Wiki

## Content:

1. **First Steps**
2. **Examples**
3. **CR information design**
4. **Wiki property structure**
5. **Next Steps**

## 2. Examples

### - Organization of Countries X Problem Types X Dimensions

Country

Planilha | Ficha

Country	Cod Co... /
Austria	1
Brazil	2
Canada	3
Chile	4
China	5

Qtd=26

Ex: Canada has four problem types ...

ProblemType	TempScale	SpatContext	SpatScale	PartInvolved	Objective	Goods&Services
75	Short term (operator	Spatial with neighborhoo	Forest level	Single Decision Maker	Multiple	; Market wood products; ;
31	Long term (strategic)	Spatial with no neighbor	Forest level	More than one DM/stakeholders	Multiple	Market non wood products; Market wood
26	Long term (strategic)	Non Spatial	Forest level	More than one DM/stakeholders	Multiple	Market non wood products; Market wood
1	Long term (strategic)	Non Spatial	Regional/Nat	More than one DM/stakeholders	Multiple	Market non wood products; Market wood

P.Type X Country

Ptc Model

Planilha | Ficha

Country / Model

Cod ProbType / DSS

+	Country : Brazil [Qtd=10]
-	Country : Canada [Qtd=11]
-	Model : Forest landscape development [Qtd=4]
	1 Woodstock - Stanley (Remsoft)
	26 Woodstock - Stanley (Remsoft)
	31 SELES
	31 Woodstock - Stanley (Remsoft)
+	Model : Harvest potential assessment [Qtd=1]
+	Model : Harvest scheduling [Qtd=6]
+	Country : Chile [Qtd=1]
+	Country : China [Qtd=15]
+	Country : Finland [Qtd=11]

Method

-	Method : Heuristics [Qtd=1]
	Heuristics - other
▶ -	Method : Optimization [Qtd=2]
	LP - Linear Programming
	Growth and yield model - unspecified

Methods | Methods\$SuMethods

## - Models & Methods

Ex: Canada solves problem types no 31, with a “Forest landscape development” model; With a DSS named Woodstock; using Optimization and Heuristic

Para agrupar, arrastre o cabeçalho e solte-o aqui.

Cou...	ProbType	Model	DSS
Brazil	31	None	No computerized DSS in use
Canada	31	Forest landscape development	SELES
Canada	31	Forest landscape development	Woodstock - Stanley (Remsoft)
Canada	31	Harvest scheduling	Forest Planning Studio (FPS-Atla
Canada	31	Harvest scheduling	Forest Simulation and Optimizat
Portugal	31	Harvest scheduling	EfLOR
Portugal	31	Harvest scheduling	MfLOR
Portugal	31	Harvest scheduling	PfLOR
Portugal	31	Harvest scheduling	SADfLOR
USA	31	Forest fire (risk)	ArcFuels
USA	31	Forest fire (risk)	INFORMS
USA	31	Forest fire (risk)	Starfire
USA	31	Forest landscape development	FVS - Forest Vegetation Simulatc
USA	31	Forest landscape development	Habplan
USA	31	Forest landscape development	NED

**- Models & Methods**

X (ProbType = 31)



Method
SubMethod
- Method : Heuristics [Qtd=1]
Heuristics - other
- Method : Optimization [Qtd=2]
LP - Linear Programming
Growth and yield model - unspecified

**Ex: Canada, Portugal, USA and Brazil have PT 31;**  
**they make Forest landscape development and Harvest Scheduling Models;**  
**They use Optimization and Heuristic methods to solve them;**

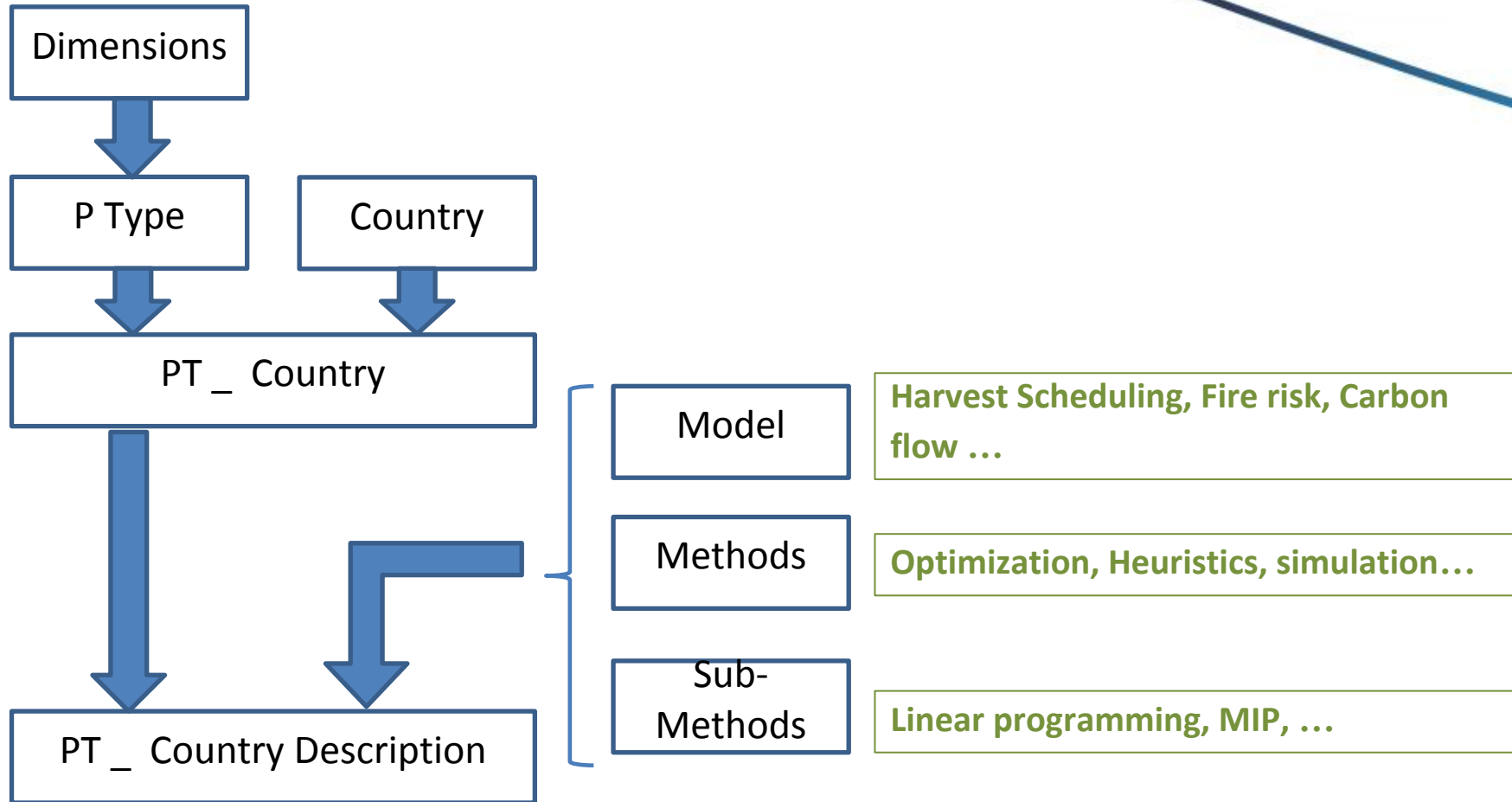
## Content:

1. **First Steps**
2. **Examples**
3. **CR information design**
4. **Wiki property structure**
5. **Next Steps**



### 3. CR information design

First Part, until Models&Methods ...



## Content:

1. **First Steps**
2. **Examples**
3. **CR information design**
4. **Wiki property structure**
5. **Next Steps**

# 4. Wiki property structure

Property ID	Target form	Criteria	Property
<b>Wiki quality control</b>			
101	DSS;Case study	Wiki quality control	Flag
<b>Name, responsible organisation and contact person</b>			
201		Name, responsible organisation and contact person	Name
202	DSS	Name, responsible organisation and contact person	Acronym
203	DSS;Case study; PT_C	Name, responsible organisation and contact person	Responsible organisation
204	DSS;Case study; PT_C	Name, responsible organisation and contact person	Type of the owner organization
205	DSS	Name, responsible organisation and contact person	Institutional framework
206	DSS;Case study; PT_C	Name, responsible organisation and contact person	Contact person for the Wiki
207	DSS;Case study; PT_C	Name, responsible organisation and contact person	Contact e-mail for the Wiki
208	DSS	Name, responsible organisation and contact person	Contact person for the DSS
209	DSS	Name, responsible organisation and contact person	Contact e-mail for the DSS
<b>Scope of the problem</b>			
301	DSS;Case study;Lesson	Scope of the tool	Description
302	DSS	Scope of the tool	Modelling dimension
303	DSS;Case study;Lessons learned; PT_C	Scope of the problem	Temporal scale
304	DSS;Case study;Lessons learned; PT_C	Scope of the problem	Spatial context
305	DSS;Case study;Lessons learned; PT_C	Scope of the problem	Spatial scale
306	DSS;Case study;Lessons learned; PT_C	Scope of the problem	Objectives dimension
307	DSS;Case study;Lessons learned; PT_C	Scope of the problem	Goods and services dimension
308	DSS; PT_C	Scope of the tool	<b>Forest management goal</b>
309	DSS	Scope of the tool	Supported tree species
310	DSS	Scope of the tool	Supported silvicultural regime
311	DSS;Case study;Lessons learned; PT_C	Scope of the problem	Decision making dimension

First Part, until Models&Methods ...

## Content:

1. **First Steps**
2. **Examples**
3. **CR information design**
4. **Wiki property structure**
5. **Next Steps**

## 5. Next Steps

- i. **Finish CR analysis**
- ii. **Complete DB**
- iii. **Finish Wiki property structure**
- iv. **Export to Wiki**

Thanks!



[www.atriumforest.com](http://www.atriumforest.com)

[silvana@atriumforest.com](mailto:silvana@atriumforest.com)