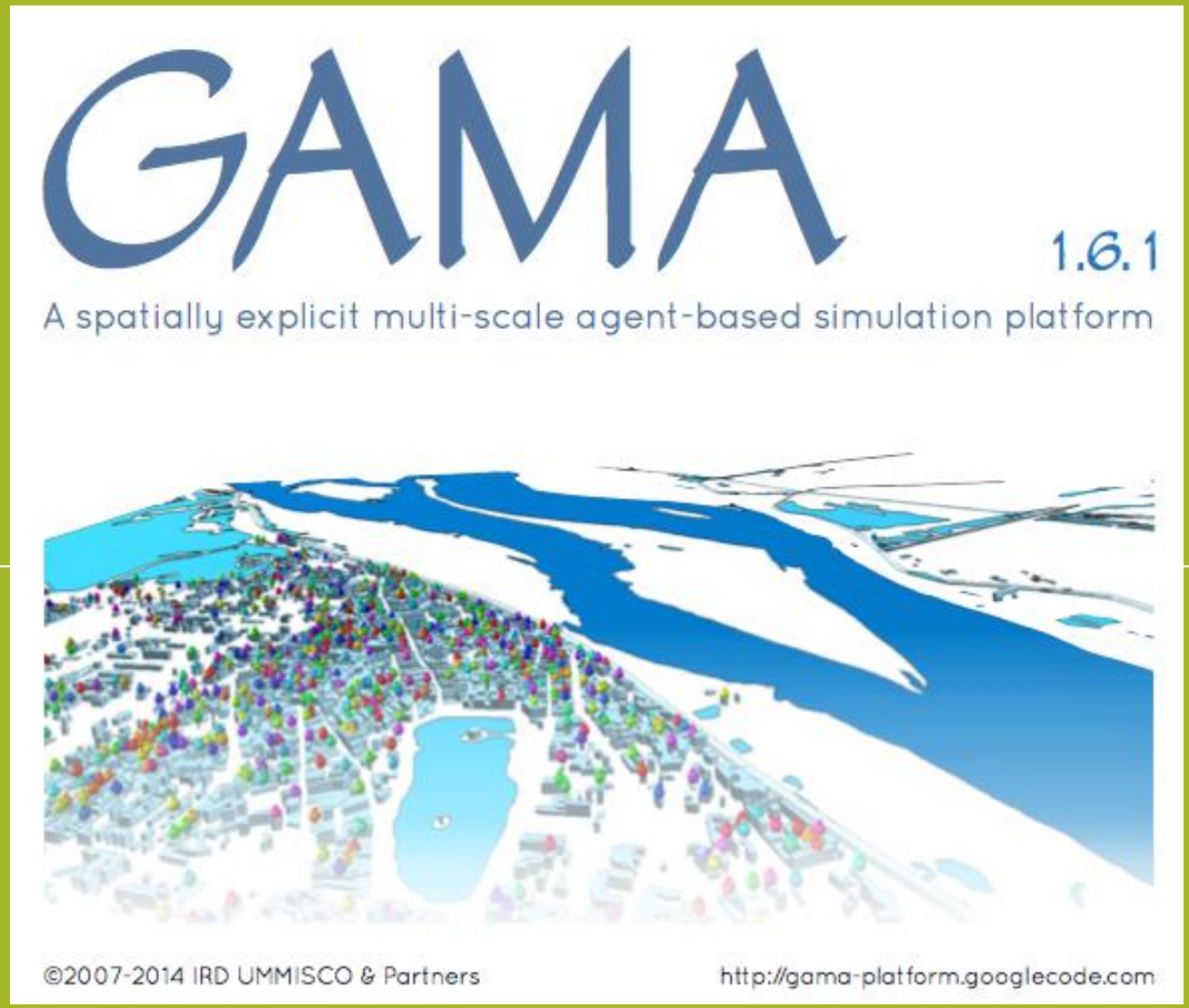


Aitor Alkorta

Qué es?

gama-platform

Agent-based, spatially explicit, modeling and simulation platform

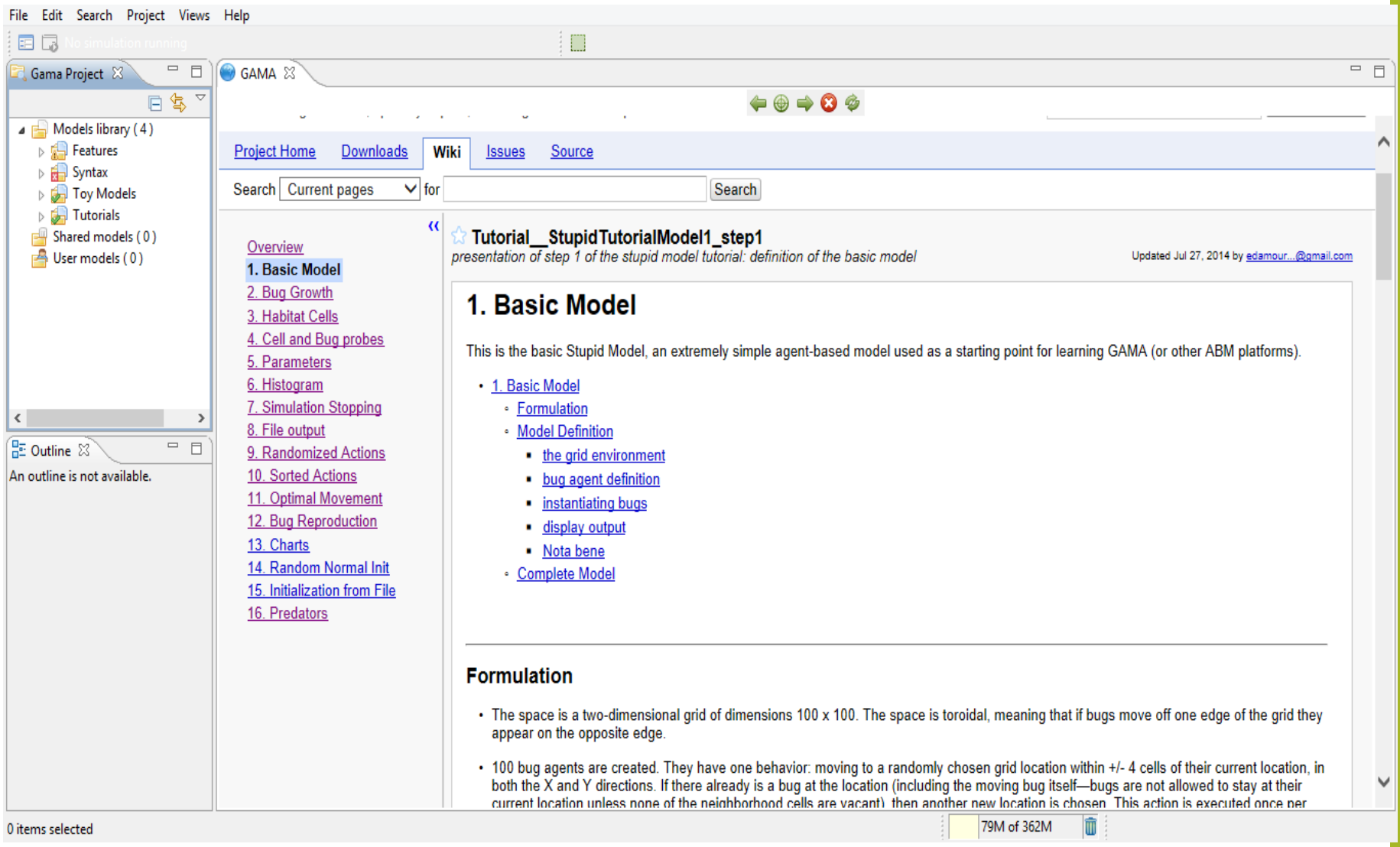
- Una plataforma de modelado y simulacion, espacialmente explicita, basada en agentes.
- GAML agent-oriented language (Java/Smalltalk)
- Crear instancias de los agentes de cualquier tipo de datos y simulaciones a gran escala.
- Visualización 2D/3D

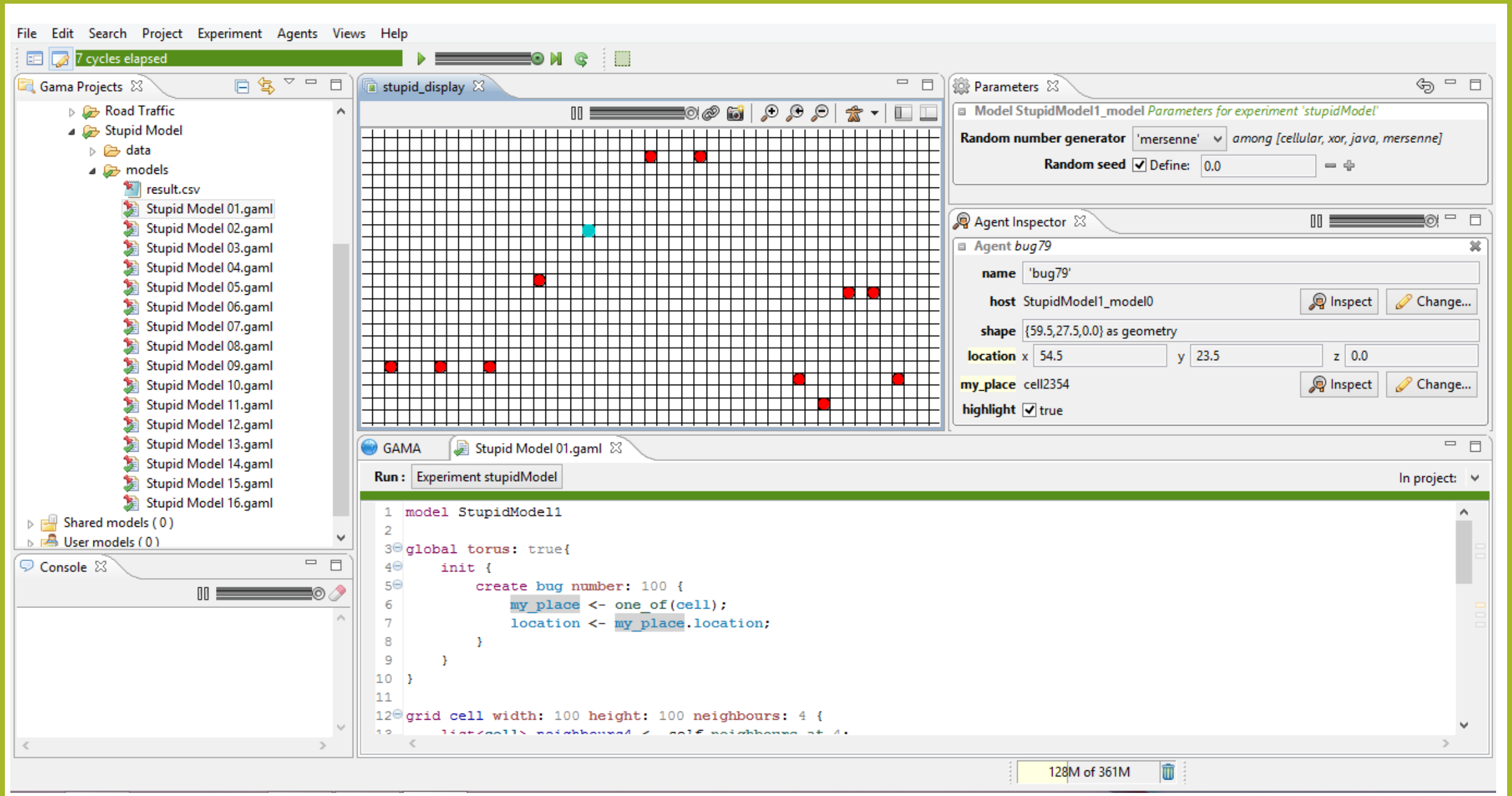
Donde?

- **Desarrollado por varios equipos de la unidad de investigación internacional UMMISCO del IRD/UPMC**
- **Año: 2007**
- **1.6.1**
- **Activo**

Instalación

- Muy sencillo.
- Basado en eclipse
- Tutorial
- Multiplataforma



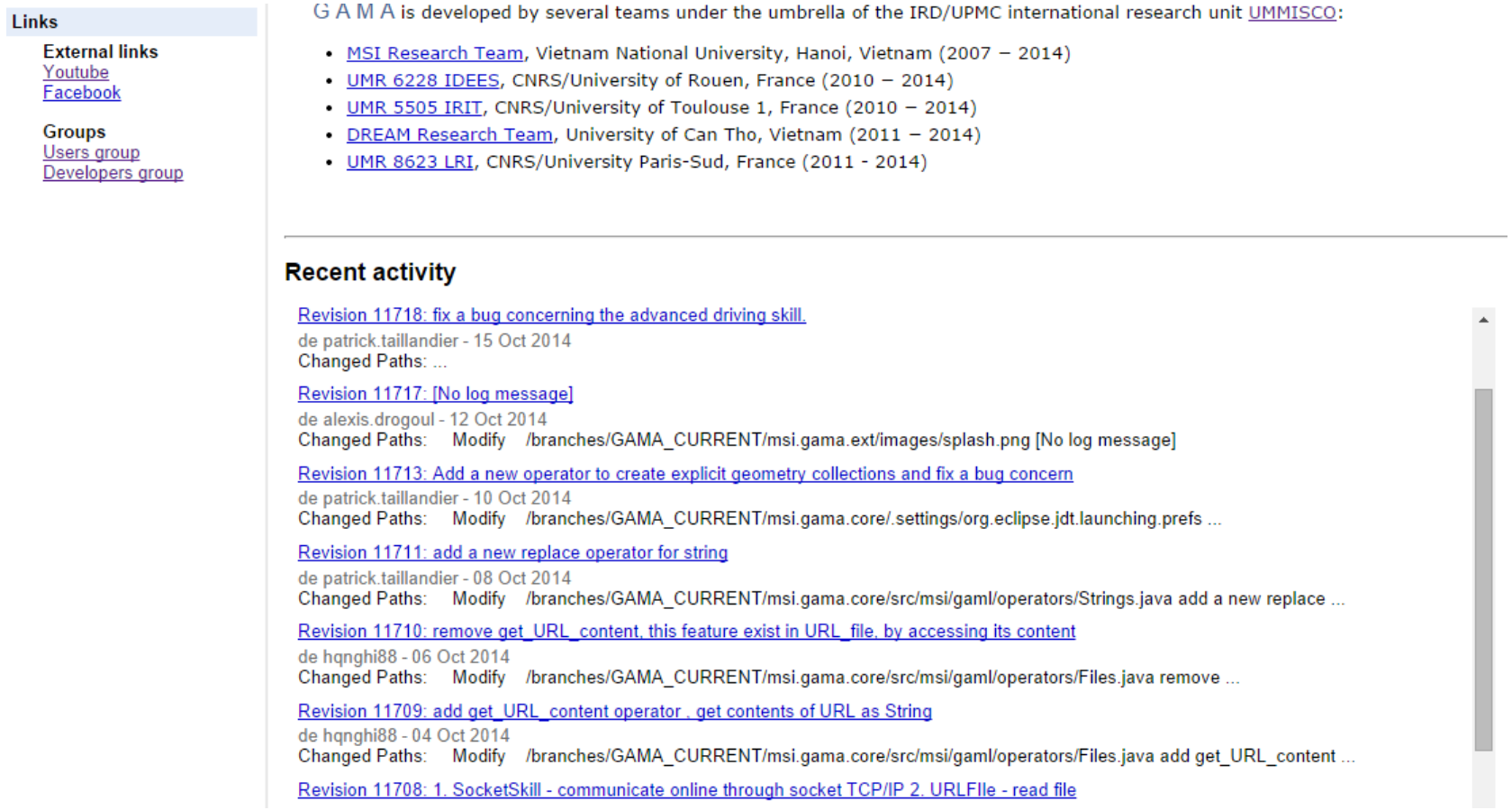

File Edit Search Project Experiment Agents Views Help
7 cycles elapsed
Gama Projects
Road Traffic
Stupid Model
data
models
result.csv
Stupid Model 01.gaml
Stupid Model 02.gaml
Stupid Model 03.gaml
Stupid Model 04.gaml
Stupid Model 05.gaml
Stupid Model 06.gaml
Stupid Model 07.gaml
Stupid Model 08.gaml
Stupid Model 09.gaml
Stupid Model 10.gaml
Stupid Model 11.gaml
Stupid Model 12.gaml
Stupid Model 13.gaml
Stupid Model 14.gaml
Stupid Model 15.gaml
Stupid Model 16.gaml
Shared models (0)
User models (0)
Console
stupid_display
Parameters
Model StupidModel1_model Parameters for experiment 'stupidModel'
Random number generator 'mersenne' among [cellular, xor, java, mersenne]
Random seed Define: 0.0
Agent Inspector
Agent bug79
name 'bug79'
host StupidModel1_model0 Inspect Change...
shape {59.5,27.5,0.0} as geometry
location x 54.5 y 23.5 z 0.0
my_place cell2354 Inspect Change...
highlight true
GAMA
Stupid Model 01.gaml
Run : Experiment stupidModel
In project:
1 model StupidModel1
2
3 global torus: true{
4 init {
5 create bug number: 100 {
6 my_place <- one_of(cell);
7 location <- my_place.location;
8 }
9 }
10 }
11
12 grid cell width: 100 height: 100 neighbours: 4 {
128M of 361M

Run : Experiment stupidModel In project:

```
model StupidModel1

global torus: true{
    init {
        create bug number: 100 {
            my_place <- one_of(cell);
            location <- my_place.location;
        }
    }
}

grid cell width: 100 height: 100 neighbours: 4 {
    list<cell> neighbours4 <- self neighbours_at 4;
}

species bug {
    cell my_place;
    reflex basic_move {
        cell destination <- shuffle(my_place.neighbours4) first_with empty(each.agents);
        if (destination != nil) {
            my_place <- destination;
            location <- destination.location;
        }
    }
    aspect basic {
        draw circle(0.5) color: #red;
    }

}

experiment stupidModel type: gui {
    output {
```

Conclusiones

- Actualizado
- Complejo
- No muchos usuarios
- Multiplataforma



Links

External links
Youtube
Facebook

Groups
Users group
Developers group

G A M A is developed by several teams under the umbrella of the IRD/UPMC international research unit UMMISCO:

- MSI Research Team, Vietnam National University, Hanoi, Vietnam (2007 – 2014)
- UMR 6228 IDEES, CNRS/University of Rouen, France (2010 – 2014)
- UMR 5505 IRIT, CNRS/University of Toulouse 1, France (2010 – 2014)
- DREAM Research Team, University of Can Tho, Vietnam (2011 – 2014)
- UMR 8623 LRI, CNRS/University Paris-Sud, France (2011 - 2014)

Recent activity

Revision 11718: fix a bug concerning the advanced driving skill.
de patrick.taillandier - 15 Oct 2014
Changed Paths: ...

Revision 11717: [No log message]
de alexis.drogoul - 12 Oct 2014
Changed Paths: Modify /branches/GAMA_CURRENT/msi.gama.ext/images/splash.png [No log message]

Revision 11713: Add a new operator to create explicit geometry collections and fix a bug concern
de patrick.taillandier - 10 Oct 2014
Changed Paths: Modify /branches/GAMA_CURRENT/msi.gama.core/.settings/org.eclipse.jdt.launching.prefs ...

Revision 11711: add a new replace operator for string
de patrick.taillandier - 08 Oct 2014
Changed Paths: Modify /branches/GAMA_CURRENT/msi.gama.core/src/msi/gaml/operators/Strings.java add a new replace ...

Revision 11710: remove get_URL_content, this feature exist in URL_file, by accessing its content
de hqnghi88 - 06 Oct 2014
Changed Paths: Modify /branches/GAMA_CURRENT/msi.gama.core/src/msi/gaml/operators/Files.java remove ...

Revision 11709: add get_URL_content operator , get contents of URL as String
de hqnghi88 - 04 Oct 2014
Changed Paths: Modify /branches/GAMA_CURRENT/msi.gama.core/src/msi/gaml/operators/Files.java add get_URL_content ...

Revision 11708: 1. SocketSkill - communicate online through socket TCP/IP 2. URLFIle - read file

Preguntas?

Aitor Alkorta