

**Designing, Implementing and Running
Agent-Based Models for Renewable Resources Management**
Sept. 17-28, 2012 - Montpellier

Tentative programme

Monday 17th (10:00am – 5:00pm)

- Welcome
 - Participant introductions
 - **Lecture:** Introduction to modeling in NRM
-
- **Lecture:** Multi-agent systems: principles, origins, functioning (with demos of didactic models)

Tuesday 18th (08:30am – 5:00pm)

- **Lecture:** Designing a conceptual model (Ontologies, UML static)
 - Exercises
-
- Introduction of a **Red Thread Model (RTM)**
 - Working Groups to design a UML class diagram (**RTM**)
 - Working Groups Feedback / Synthesis

Wednesday 19th (08:30am – 5:00pm)

- **Lecture:** UML dynamic (activity, state-transition diagrams)
 - Working Groups to design a UML activity diagram (**RTM**)
 - Working Groups Feedback / Synthesis
-
- **Lecture:** UML sequence diagram, simulation scheduling
 - Working Groups to design a UML sequence diagram (**RTM**)
 - **Participants' Prototype Models (PPMs)** => Setting-up

Thursday 20th (08:30am – 5:00pm)

- **PPMs** => Designing conceptual models
-
- **PPMs** => Designing conceptual models
 - **PPMs** => Presentations (issues/questions/UML class diagrams)

Friday 21st (08:30am – 5:00pm)

- Demonstration of **RTM** implementations with **NetLogo, Cormas**
-
- Demonstration of **RTM** implementation with **Mimosa**
 - Discussion on platforms
 - **Lecture:** How to describe and communicate an agent-based model?
The ODD protocol

Monday 24th (08:30am – 5:00pm)

- **Lecture:** The Companion Modeling approach
 - **Hands on NetLogo / PPMs** => Implementation
-

- **Hands on Cormas / PPMs** => Implementation
- **Hands on Mimosa / PPMs** => Implementation

Tuesday 25th (08:30am – 5:00pm)

- **Lecture:** Case study
 - **Mastering NetLogo / Cormas / Mimosa (1/2)**
-

- **Mastering NetLogo / Cormas / Mimosa (2/2)**
- **PPMs** => Implementation

Wednesday 26th (08:30am – 5:00pm)

- **Role-playing game session**
-

- **Summer School Lunch**
-

- **PPMs** => Implementation

Thursday 27th (08:30am – 5:00pm)

- **Lecture:** Case study
 - **PPMs** => Implementation
-

- **PPMs** => Implementation

Friday 28th (08:30am – 13:00pm)

- **PPMs** => Implementation
- **PPMs** => Presentations