

Betesa meeting (2-3/07/2013)

Recap and Timeline

Marco, Vicky, Andrea, Bernardo, Xavi, Alexis, Alexandre, Enrico,
Mathieu, Juanjo, Francesc, Carla

AP Agents (Carla, Mathieu, Xavi, Marco)

- Actions:
 - Move home (dune, shared, near water, plots available)
 - Create new field (added, replaced, 2/1 cultivation cycle)
- Resources:
 - Plants and animals (tot calories, production loss)
 - “field size” (cultivated and grazed, working hours/size, biomass % for animals)
 - Yields (based on rain)
- Plotting cycle:
 - Cultivated (MJJASO)
 - Wild (NDJFMA)
- Timetable
 - Mid July> collect data
 - End of August> implementation
 - October> simulation

Alexandre, Alexis, Mathieu, Vicky

- Performance (end of July)
 - Update cells only when necessary (only when needed)
 - Changing the resolution (end of July – AA-AT-BR-XR)
- Information sharing (possibly September)
 - Random sharing and system exchange (2 agents meet do they share or not? How much they share?)
 - Test different models and strategies
 - Information about unknown cells
 - scouting? Fixed ratio depending on parameters Strongly parameter dependent
 - Go for the negative approach – no scouting needed (scouting is kind of part of the daily moving for hunting)
- Path (resource guessing)

Xavi, Enrico, Bernardo

- Relation between efficiency and strategy
- Generation based reproduction (impact of time in the learning process – vertical transmission)
- Negative frequency between tendency to perform a strategy and efficiency – move to a positive feedback
- Explore the model and integrate it into the Gujarat model
- Model finished by end of August so that it will be explored in London starting from September (Xavi in London 15/09-15/12)
- Final outcomes in November
- Integrate this into the Gujarat model once both agents are fully implemented.

Meetings

- Last week of July. Meeting on CS5.
- Beginning of September: meeting with Xavi to discuss the implementation of the AP model before he leaves to London (Xavi will also be in Barcelona in October). JJ/FC will present a short recap of the archaeological situation in Gujarat.
- Beginning of October. Resilience cluster. How are we moving on? Plus workshops organisation.

Outcomes (**priorities** in red)

- JAMT – waiting for reviews (paper and special issue to be closed)
- Two more papers:
 - Ecological models: rule-based/model-based (AB with AT)
 - Computer science: architecture, performances etc
 - ICKAI
 - Turin (Feb 2014 deadline July. Two papers: Pandora and “performances”)
 - Journal of Artificial Societies?? Journal of Simulation??
- Next Special Issues:
 - Thematic workshops (3) think of journals (wider than archaeology- Ecological Modeling/Ecology and Society [open access 800€ per paper], Human Ecology/Current Anthropology), define abstracts and list of papers. Open access journal that have conventions with CSIC (if the CSIC buys the proposal they pay for everything)
- Timing within project. Not all publication need to be out before the end of the SimulPast but the main pillars do:
 - JAMT special issue
 - at least another special issues
 - a book coming out of the 2014 SimulPast workshop within social simulation conference)
- Final book related to the end of the project workshop that will be more a guideline for social simulation.
- Working papers for each sub-groups. Let other people know about planning and keep track of what you want to do.
- Wiki updating: everybody look at it and let Carla know what to do.

- Mathieu:
 - Two papers on Rabari ethnography and one on traditional ecologic knowledge changes.
- Bernardo and Pep are working on a paper on Complexity in Archaeology coming out of Pep's final BA work (Clios dynamics, Journal of Archaeological Research, JAMT)
- Xavi and Cristina just published a chapter on social science simulation in a book on simulation.
- Possible exploration on
 - the “environmental cue” on the model we are using
 - Exchange of information distance (spatial dependency of information sharing – porcupine dilemma)
- Xavi is working on a paper applying quantum probabilistic models to foraging strategies. Residential vs logistic mobility for a second paper applying the same quantum probability model.
- Possibly include simulation on storage in our AP model for Andrea's special issue on storage.
- *Prosopis* – small project for a student > Create a list of possible projects and send to Alejandro

Events

- September 2013, IPHES (Tarragona): workshop on complex systems and prehistoric society – paper presented and accepted on CS1 and poster on CS5 (TdF presented but not known what happened).
- March 2014, Paris CAA 2014: July 14th – deadline to present workshop/seminars/session. What do we do?
- May 2014, Montpellier: conference on resilience in Montpellier. AB and MS are proposing a short session on computer simulation for resilience in semi-arid areas. 3 papers proposed (climate and HG, climate and cultural transmission as resilience strategy, applied case study on cell-phones with present-day pastoral society in Gujarat). Deadline mid-August.
- September 2014, Barcelona: Social Simulation Conference with a workshop dedicated to SimulPast
- December 2014, ICREA workshop, proposal submitted (outcome Before summer holiday)
- Cluster workshop schedule and organisation (invite external people)
 - Resilience
 - Cooperation
 - Transmission
- Ideas:
 - something for SAA in a couple of years (San Francisco, April 2015) either on the Case Study or on the Resilience Cluster
 - Human Behavior and Ecology (annual conference normally held in April)