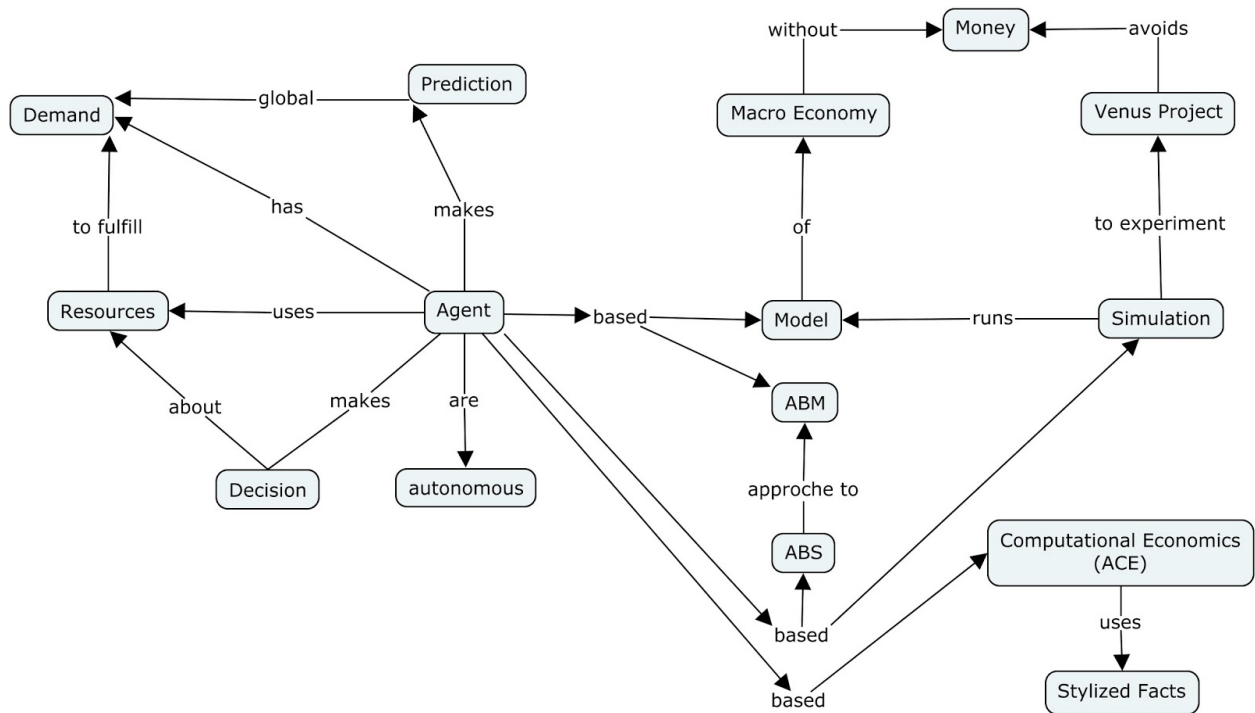


## Assignment 4 - Draft literature overview CyberSym - Quiri Passchier 10445188

### 1. Problem definition max. 200 words.

In which way is it possible to have stable economy in which demand is met without money?  
To answer this question a multi agent simulation will be implemented in the java MESON or RePast framework.

### 2. Key words and Concept map



### 3. Article collection

*summarize the most important points and the link to your own project. To be expanded...*

**Chevaleyre, Y., Dunne, P. E., Endriss, U., Lang, J., Lemaitre, M., Maudet, N., . . . Sousa, P. (2006). Issues in multiagent resource allocation. *Informatica (Slovenia)*, 30(1), 3-31.**

This paper gives a comprehensive overview of characteristics of resources, procedures to compute resource allocations and methods to evaluate resource allocations in multi agent system. The paper continuously discusses current questions to be answered in this field, as well as defining key concepts related to multi agent resource allocation. Further more, several complexity results are presented and discussed. Finally, implications of modelling and simulation implementations for experiment analysis are discussed.

To my project this paper gives sound interdisciplinary introductions in the interplay between computer science and economics and into the various considerations and possibilities when composing a multi agent economical model for resource allocation.

**Cristelli, M., Pietronero, L., & Zaccaria, A. (2011). Critical overview of agent-Based Models for economics. <http://arxiv.org/pdf/1101.1847.pdf>**

This paper will ground the model to be developed in the economic research done on the topic.

**Dawid, H., Gemkow, S., Harting, P., Van der Hoog, S., & Neugart, M. (2014). Agent-based macroeconomic modeling and policy analysis: The eurace@ unibi model.**

This paper gives a very recent overview of the field and the gaps still to be researched.

**LeBaron, B., & Tesfatsion, L. (2008). Modeling macroeconomies as open-ended dynamic systems of interacting agents. *The American Economic Review*, , 246-250.**

This paper discusses the necessities of a representative model in terms of complexity and scale. This will give the model for my project background to increase reliability of the results.

**Macal, C. M., & North, M. J. (2014). Agent-based modeling and simulation: Introductory tutorial. *Proceedings of the 2014 Winter Simulation Conference*.**

A scientific tutorial for implementing and working with multi agent systems is given. This should give a good basis to start modeling.

### 4. Use these descriptions to create your literature overview draft.

Some delay was encountered, will be done by Monday.