

Chapter 9

Conclusion: Some Work Yet to Be Done



It is clear that this book developed only the very elementary variational basis for regulation and structuration of agent societies.

The regulation/structuration model sketched on that basis can be fully developed, in many possible ways, by further work that “fills the blanks” in what was presented or suggested in each chapter.

In other words, the basis and the model introduced here are no dogma, and the book is no catechism.

We consider of particular importance, for further development, the following points:

- a characterization of the structure and dynamics of core operatory structures of agent societies in terms of *variational analysis* [2], even if in qualitative terms, so that the variational basis introduced in this book can receive its full systematic meaning;
- the development of accounts of *political and governmental systems* situated inside agent societies, so that the structuration of the top-level macro-organizational social systems of those societies can be fully achieved;
- the analysis of the possible structure, behavior, and exchanges of the *rulers* of the various operatory levels of core operatory structures, so that the way they regulate and structure those core operatory structures can be formally defined.

Meanwhile, we expect that the variational basis introduced here can motivate experimental computational realizations of structuration and regulation mechanisms for both *core* and *full* operatory structures of agent societies, capable of providing critical feedback on the potentialities and limits of the model.