

## **20.MULTIPLE LOGICS AND LOGIC INFERENCES ON COMPLEX MODELS**

### **THE INFERENCE ENGINE**

Multiple logics come from two different sources. The first source is information packages by complexity levels. The second source is the data structure that generates analysis capabilities given by the coherent information space. In both situations, both the structure on the nodes of the multidimensional (at least tridimensional) network of the coherent space, as well as the algebraic fractals obtained through the successive packings give specific logic with multiple types of logical inferences.

The coherent space appeared will be a complex structure of nodes with complex structured information and of vectors with circulating information. The information stored in the nodes will also contain the history of the decisions and choices made when choosing a substructure that will represent a structure, necessary for the consistency of the information packages necessary to fill the free spaces obtained at higher-order algebraic fractals, when the concatenations on structures are made. nodes in the tables of the type below:

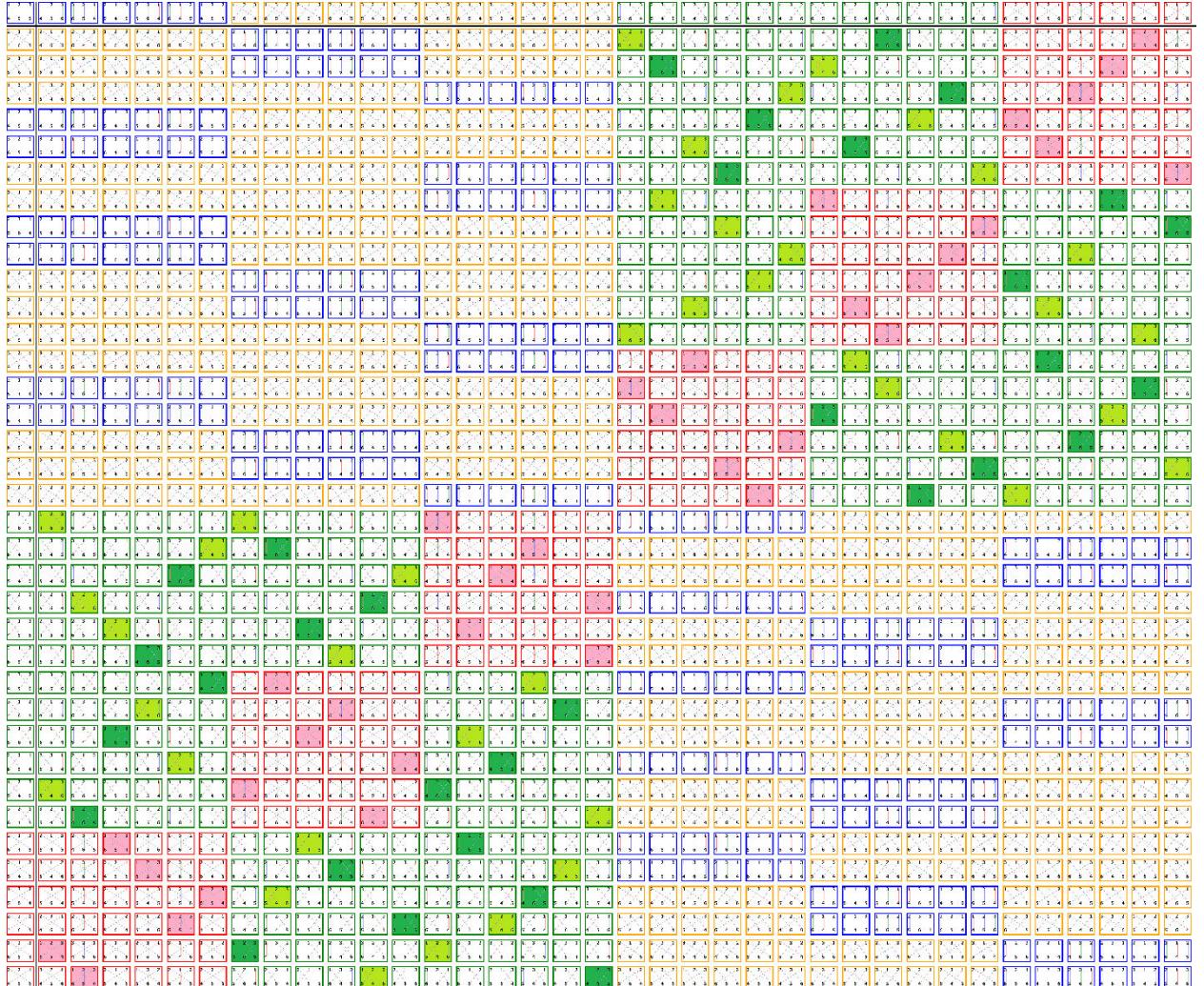


Fig 1 complex information structures with buttons (pink) for possible connection

Below we will see some inference mechanisms necessary for the development of a complex motor capable of processing data obtained through mechanisms and the direct or hidden informational dimensions.

The mechanism of inferences necessary for designing and structuring the IT platform needed for the professional network, is summarized below. Although without artificial intelligence we cannot reach the crisis resolution objectives, the inferences made in using the platform will contribute to the efficiency of the human adaptation to the cognitive leap needed to solve the crises.

The general mechanism of the inference engine is given by the trial-error-correction-replay-learning system. The basis of the general mechanism is given by the information distances and their sub-distances, if any, as well as the modalities of association in feedback packages generated by each informational distance separately. Each new operation generates informational distances and structuring particularities specific to it.

Logical inference engines can be refined and multiplied on all levels of information structuring and granulation, so as to enable the generation of artificial intelligence that manages to maintain the planet's balance and sustainability.

This is the damage solution if humanity does not find its balance, role and purpose within the ecosystem. If it does not eliminate the factors that prevent it from evolving and does not organize itself as a professional network with altruistic and cooperative behavior, to effectively help solve problems.