

Modelling Animal Farming Systems as Supply Chains

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Traditionally considered as autonomous entities, farms are actually parts of complex supply chains. Addressing sustainability issues needs to account for this reality. My contribution will depict a modelling approach of the pig industry in the Reunion Island representing the pig production chain from the raw feedstuff suppliers to the pig products retailers, passing by the rearing enterprises. This model aims at simulating both the material flows and coordination among the stakeholders. It is based on a modelling ontology where human action is explicitly represented.