Managing mill supply in the sugar industry: a co-ordination issue between numerous stakeholders

- How to share the potential sugar value between growers and millers?
  - Selection of a relevant cane payment system
  - Assessment of cane quality along the supply chain
  - Control of production costs from fields to the mill

- How to organize mill supply?
  - Choice of mill opening and closure dates
  - Rules of delivery allocation amongst growers

A decision support system based on the modelling of cane flows and a simulation tool: MAGI

Assessing the potential impact of quality-based delivery allocations on sugar production at the mill area level

- Definition of homogeneous quality sub-areas
- Design of new delivery allocation patterns
- Simulation and comparison of total sugar production

The result feed back the discussion between growers and millers about the scenario feasibility and new issues to be adressed

- Agricultural impacts: cane yields, infestation of stem borer
- Harvest organization at farm level: outsourcing, impact on labour force
- Transport organization: logistic, optimisation of fleet size
- Evolution of cane payment systems