



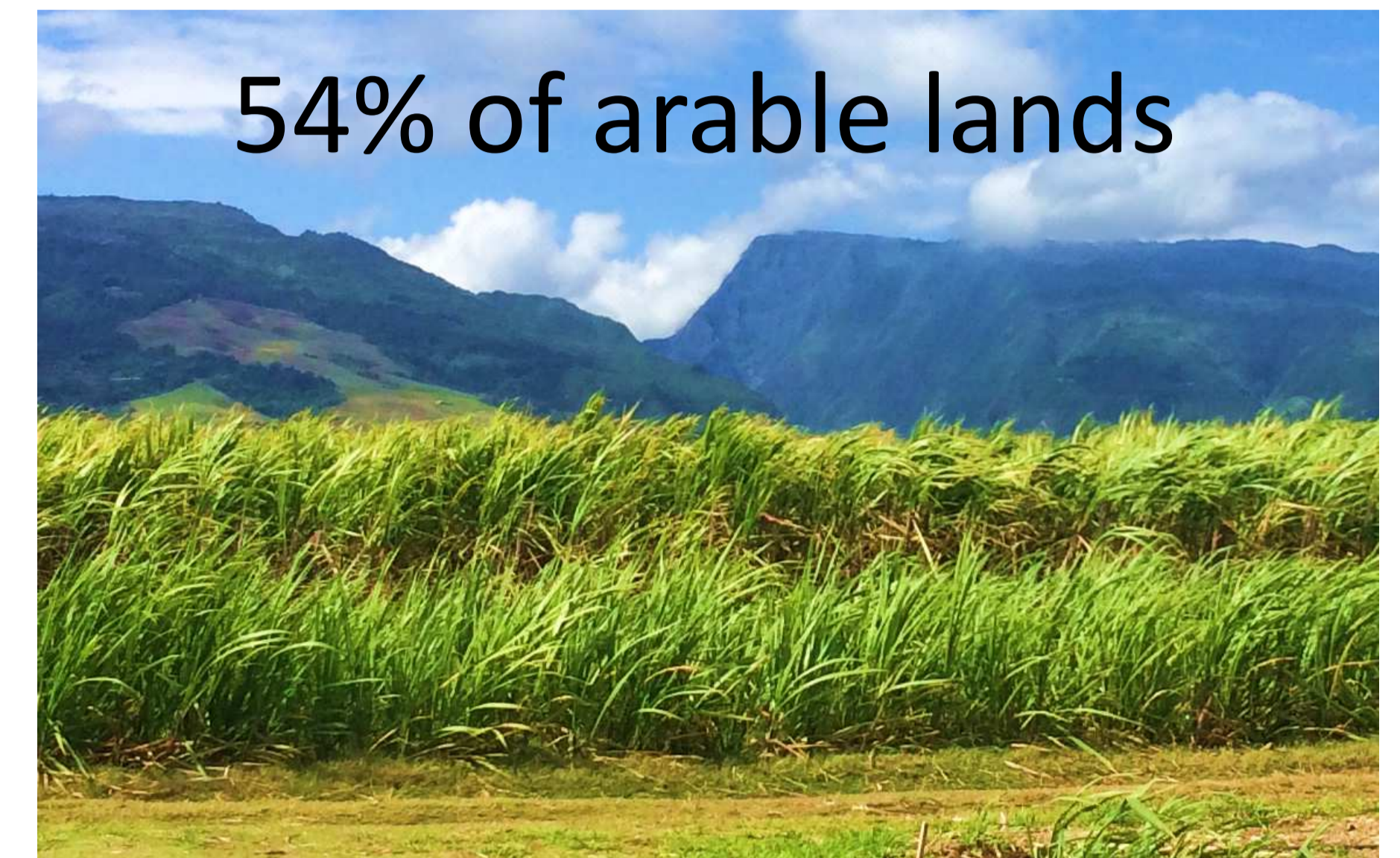
# A SOIL-SPECIFIC NUTRIENT MANAGEMENT EXPERT SYSTEM FOR SUGARCANE FERTILISATION IN THE REUNION ISLAND



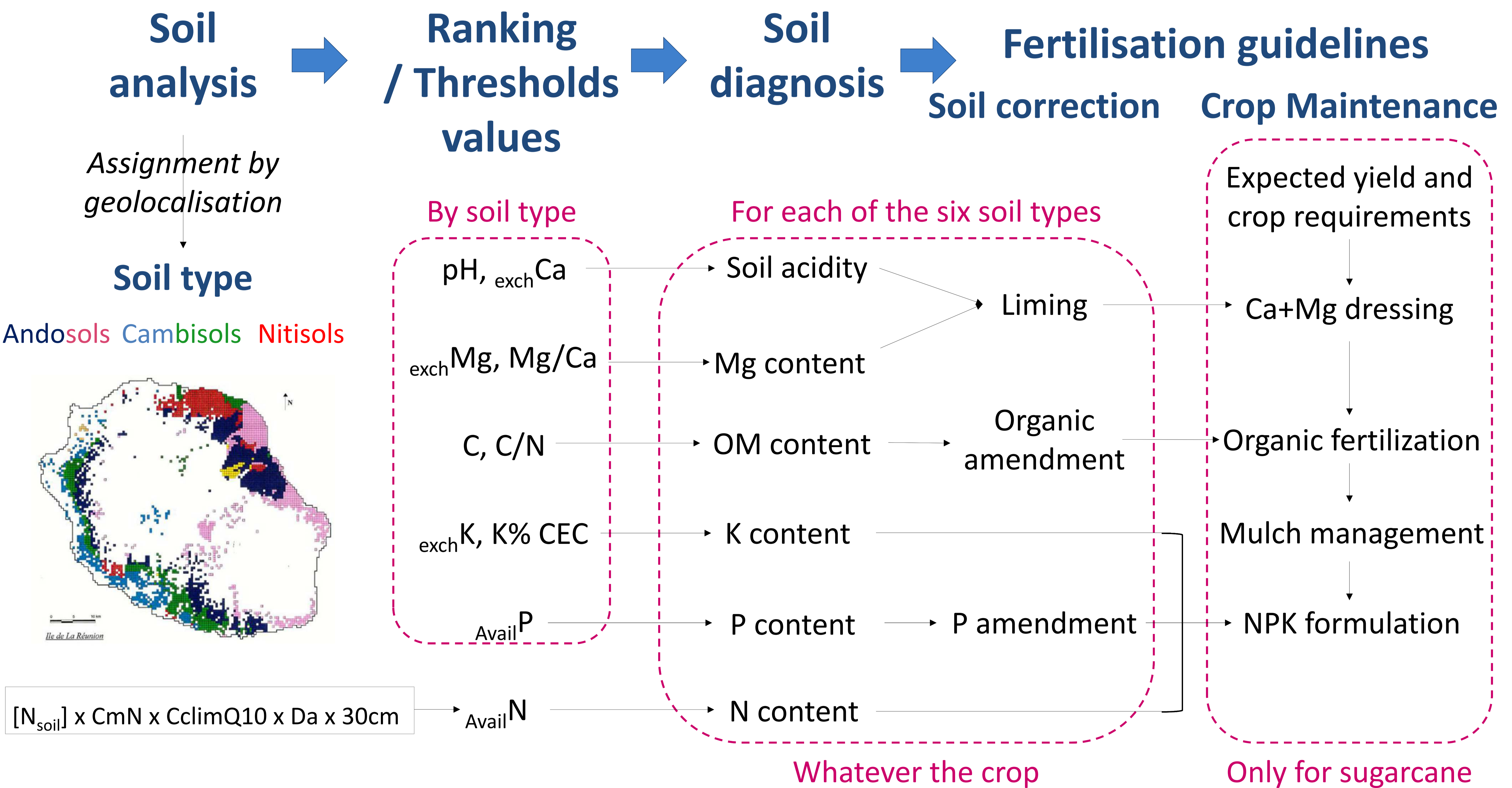
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## CONTEXT

- Sugarcane sector is a major pillar of the Réunion economy
- SERDAF was developed since the late 90's to improve nutrient management practices in the sugar industry
- Nowadays ≈1000 recommendations each year



## TOOL DESCRIPTION



## DISCUSSION & PERSPECTIVES

- *Improving the soil type assignment with an updated soil map*

Soil spectral profile (NIRS&MIRS) is currently used to update the soil classification, the spatial soil distribution and the associated soil properties (Ph.D of M. Ramos, 2018-2021)

- *Improving N processing by Serdaf*

Soil N supplying and fertilizer-N use efficiency variability among soil types in the Reunion Island will be soon documented in order to calibrate these parameters for each type of soil in an updated version (Ph.D of M. Ramos, 2018-2021)

- *Future extension to other crops*

Nutrient crop requirements of 20 market-garden crops, 6 fruit-growing crops, and pasture crops is currently envisaged within the framework of the SolAgriDOM project in order to deliver fertilization guidelines to these crops

