

Participatory design of a tool to evaluate the sustainability of tropical farming systems: the case of French Reunion Island

T. Michels, M. Lobietti, S. Poletti, J.P. Danflous, F. Le Bellec, Frédéric Zahm

▶ To cite this version:

T. Michels, M. Lobietti, S. Poletti, J.P. Danflous, F. Le Bellec, et al.. Participatory design of a tool to evaluate the sustainability of tropical farming systems: the case of French Reunion Island. 5th International Symposium for Farming Systems Design, Sep 2015, Montpellier, France. pp.1, 2015. hal-02602167

HAL Id: hal-02602167 https://hal.inrae.fr/hal-02602167v1

Submitted on $16~\mathrm{May}~2020$

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

Participatory design of a tool to evaluate the sustainability of tropical farming systems

- the case of French Reunion Island

A tool for what?

The increasingly constrained context of agricultural production calls for the re-examination of the ways agricultural innovation is built. Participatory methods can provide solutions to this problem but needs dedicated tools to both identify improvement objectives and to evaluate the system that needs to be redesigned. Here we report the co-design of a dual-purpose tool adressed to farmers to assess farm sustainability and to identify improvement objectives.

Thierry Michels¹, Mélanie Lobietti², Sarra Poletti², Jean-Paul Danflous³, Fabrice Le Bellec¹, Frédéric Zahm⁴

AGRICULTURAL RESEAR

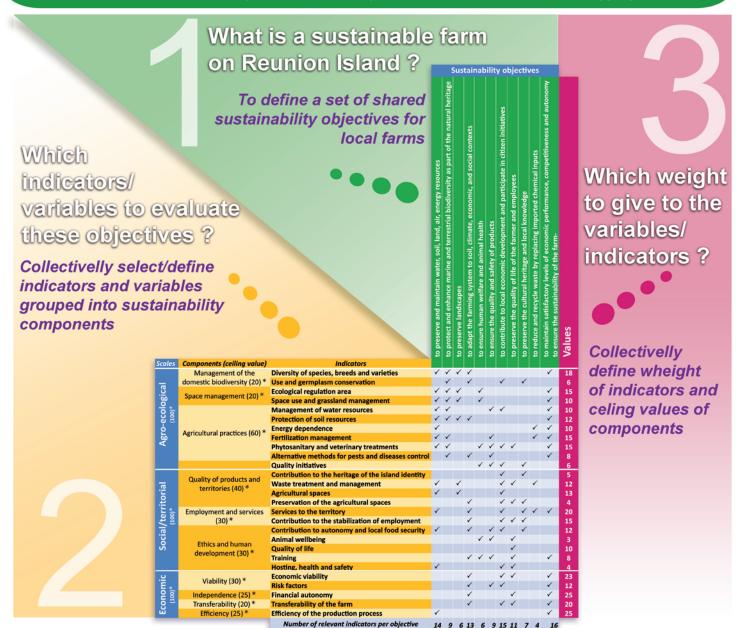
FOR DEVELOPMENT

- 1 CIRAD, UPR HORTSYS, Reunion Island
- 2 EPLEFPA, Reunion Island
- 3 CIRAD, UMR INNOVATION, Reunion Island
- 4 IRSTEA, UR ETBX, Bordeaux, France

Objectives

Acquire pedagogic tool based on :

the 3 scales of the sustainability concept 🍎 easily understandable indicators and aggregation method



Conclusions

Starting from the conceptual frame work of an existing tool (Zahm, Viaux et al. 2008), we proposed here an original participatory approach that resulted in a tool adapted to local expectations for farm sustainability. Evaluation both at different levels of aggregation,

i.e. from the level of sustainability to the indicator), allows to easily identify the levers for improvement. The tool is currently being tested on a sample of farms which are representative of the main farming systems used in Reunion Island today.

