

ABOUT THE TWO PROJECTS ...

CarSoM and *PARRUR Carbone* are among projects that the « *Laboratoire des Radio-Isotopes – LRI* » leads, in close collaboration with different partners. The first one, that is « *Carbone des Sols de Madagascar-CarSoM* », is a project in the « *Programme d'Excellence pour l'Enseignement et la Recherche au Sud-PEERS* » framework, funded by the « *Agence Internationale de Recherche pour le Développement-AIRD* ». It aimed in both: i) to a well characterization of Malagasy soil carbon dynamic in space and time, and ii) in improving soil carbon mapping by considering the existing ValSol database. Among expectations of CarSoM project were: establishment of a guide for soil carbon accounting, update and **operationalization** of ValSol database, production of an improved soil carbon map at different levels, soil carbon modelling following land use change, students training and publications.

For the second project, PARRUR Carbone, fully titled « *Carbon Séquestration and availability of soil nutrients /nitrogen-N and phosphorus-P/ in different agroecosystem in the REDD+ framework in Madagascar* », it is funded by the Ministry of foreign affairs of France through the PARRUR program. It reflected the connexion between scientific researches and action of development and focused mainly on: i) soil carbon accounting following anthropic pressure in deforestation and ii) identification of agroecology systems that could show at the same time the less soil carbon emission and also allow a maintain or an enhance of soil nutrient stock (N and P). Results from field works and simulation in laboratory showed that: i) forest conversion into cropland leads to soil carbon depletion that justify the implementation of REDD+ in Madagascar; ii) agroforestry systems are resilient in terms of soil carbon-nitrogen-phosphorus stocks and they contribute to an increase of these stocks; iii) face to an increase of 10°C of temperature, agroforestry systems not only allow the maintain soil nutrient N and P but also emit less carbon in comparison with traditional agroecosystems.

In brief, these are two complementary projects and both of them would lead to a better management of « Forest and agroecosystem » and « Soil » resources which meet the “food securing” and “climate change mitigation and adaptation” commitments. Anyway, not only they allow filling the gap in Malagasy soil knowledge but also offer a platform where scientists and the other stakeholders could exchange better to find the appropriate way for ensuring a sustainable management of these two type of resources. But there is still a lot to do in these scopes that will need more engagement from all stakeholders: from local people into national and international policy makers.

OVERVIEW OF THE PROGRAM

Schedule	Program	Speakers
8h30-8h45	Arrivals of guests and participants	LRI team
8h45-9h	Speeches and presentations	Director of LRI (Mrs Rabearisoa Lilia) Acting representative of IRD (Mr Blanchart Eric) Representative of PARRUR-SCAC (Mr. Hervé Duchaufour / Mr. Vincent Baron)
9h – 9h15	Brief presentation of two projects	Mrs Razakamanarivo Herintsitohaina Ramarson
9h15-10h15	Oral presentation : synthesis of main results of projects and question/answers	

	session : - CarSoM (30 min) - PARRUR carbon (30 min)	- Mr Razafimahatratra Hery - Mr Rafolisy Tovonarivo
10h15-10h45	- Coffee break - Poster session CarSoM (cf existing posters) - Poster session Carbone PARRUR (cf existing posters)	- LRI team - Mr RazafimahatratraHery, Mr RamifehiarivoNandrianina - Mr Rafolisy Tovonarivo, Mr Allan Luidji, Mme NasoloNjara
10h45- 12h15	Conference debate : « For a better consideration of agriculture sector in the REDD+ framework »	Mr Rakotoarijaona Jean Roger (ONE)
12h15-12h30	Closing session Lunch	Director of LRI (MrsRabeharisoa Lilia) Organizers of AfA