

VLS-LRC (Virtual Landscapes Languedoc Roussillon Catalonia)

A thematic network to strengthen regional collaborative projects on the visualisation of virtual landscapes and ecosystems - VLS-LRC (Virtual Landscapes of Languedoc Roussillon and Catalonia)

ABSTRACT

VLS_LRC Agropolis fondation supported project contributed to establish and develop interactions between Research, territorial collectivities and local SME tissues in the domain of virtual reality applied to sustainable development (land planning more explicitly) . An open exchange day was organized on 2012, May 29th at CIRAD and Agropolis, involving nearly 50 attendees mainly outside academic world. The day show presentations covering recent research advances, collectivities needs, and product solutions. Topics were open to exchanges and debates. This day did underline the increasing uses and interests of virtual reality techniques for land planning, but did also raise specific difficulties, especially raising from data acquisitions. More precisely, local and territorial collectivities made data sharing (infrastructure maps, land use maps, 3D models) a strong wish.

Contacts and exchanges developed in the frame of this day and its organization did multiply and led to project proposals and bilateral actions covering four different frames:

- * A technical frame, from academy to SMEs concerning technical advices towards SMEs concerning advanced computer graphics technologies, specifically on GPU , GPGPU and advanced (realtime) rendering techniques
- * Involving plant growth models in wide public applications (video games); AMAP Unit was solicited in this field on 3 projects, from with one is still on discussion
- * Common valorization of existing tools and research results leading to answer to Call for proposal, offering to the scientific community versatile and adaptive solutions to visualize land use simulation changes in 3D walkthrough scenario. Such is the case of the TakeCare proposal, an EuratNet Ruragri proposal, involving CIRAD participation with BIONATICS SA as subcontractor.
- * New interactions between research Units, especially concerning L Arago laboratory in Banyuls, the university of Perpignan and Amap Unit on research aspects and on line pedagogical resources definitions

At VLS_LRC project term, contacts linking research and SMEs led on one hand, to actions increasing the performances of existing tools, and, on the other hand, to boost the use of existing approaches in studies held by the research communities. The participation to the latest EuratNet Ruragri call illustrates both aspects.

Keywords : Agroecosystem, Land use, Public Policy/Agriculture/Recommendation, Farmers/farmer's practices/stakeholders, Landscape, Modelling

Year : 2009

Project number : 0902-016

Type of funding : AAP INRIA

Project type : AAP

Research units in the network : SENS LISAH

Start date : 2009-08-15

End date : 2011-06-30

Flagship project : no

Project leader : Marc Jaeger Pierre Bourdin

Project leader's institution : CIRAD

Project leader's RU : AMAP

Budget allocated : 5045.4899 €

Total budget allocated (including co-financing) : 6911.63 €

Funding : RTRA

PERSPECTIVES

Nowadays, interactions within the network are still growing. They should contribute to new collaboration proposals either on a bilateral mode, either thru participation to call proposal answers.