

Expression of interest

FACCE-ERA-NET+ : Climate Smart Agriculture

Call: *ERA-NET Plus on Climate Smart Agriculture:*

<http://www.facejpi.com/FACCE-activities/ERA-NET-Plus-on-Climate-Smart-Agriculture>

Deadline for Pre-proposal: 2nd December 2013, 13:00 CET

Deadline for Full-proposal: 1st April 2014, 13:00 CET

Diffusion date	31 st October
Deadline for initial contact	15 th November
Organisation Type (+ size)	University (more than 20 000 students) + SME (30 persons)
Fields of Activity	Research (Agronomy) + Development (Photonics)
Country	Belgium
Willing to be the coordinator of the proposal (Y/N)	N
Skills and Expertise Offered	<p>Our expertise concerns the development of stereoscopic methods (active and passive) capable to measure accurately the height and LAI (Leaf Area Index) of plants by machine vision, with the aim to monitor online the plants growth, even at early stages. The devices can eventually be coupled to multispectral or hyperspectral vision systems developed by other partners. They can be used conjointly with wireless microsensors networks that measure soil moisture and suction, climate, ...</p> <p>The measurements of height and LAI are useful for example</p> <ul style="list-style-type: none">- in decision aid systems to aid farmers in developing strategies for management of inputs (fertilizers and water irrigation), especially in presence of climate stress;- in experiences designed to compare the resilience of different plant genotypes to hydric stress.
Keywords	Phenotype – plant height – LAI – nondestructive measurement – machine vision

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Research area(s) Interested (one or more)	i) Genetics and Breeding of animals and plants to increase resilience to climate change ii) Pests and diseases of animals and plants linked to climate and posing significant risks iii) Adaptive management of water and soil resources iv) Options for adapting agricultural systems
Contact Person	M.-F. Destain
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Comments	Previous R & D Collaborative Projects Participated: 'Recognition of weeds in cultivated plants by machine vision'. This FIRST EUROPE project was conducted in collaboration with University of Twente (The Netherlands) .

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