Project partners

GERMANY
Helmholtz-Centre for Environmental Research (UFZ)
Christian Albrecht University of Kiel (CAU)
Georg-August-University Göttingen (UGOE)
L.U.P.O. Ltd, Trippstadt (LUPO)
Martin-Luther-University of Halle-Wittenberg (MLU)
OLANIS, Leipzig (OLANIS)
Potsdam Institute for Climate Impact Research (PIK)
Science4you, Bonn (S4Y)
Technical University of Munich (TUM)
Ernst-Moritz-Arndt-University Greifswald (UGR)
University of Marburg (UMAR)

INTERNATIONAL
International Rice Research Institute, Los Banos (IRRI)
CABI Southeast & East Asia, Malaysia (CABI)

VIETNAM
Center for Policy Studies and Analysis, Hanoi (CEPSTA)
Institute of Ecology and Biological Resources, Hanoi (IEBR, VAST)
Vietnam Academy of Agricultural Sciences, Ho-Chi-Minh (IRRI, MARD)

THE PHILIPPINES
Visayas State University, Baybay (IRRI/VSU)
Philippine Rice Research Institute, Munoz (PhilRice)

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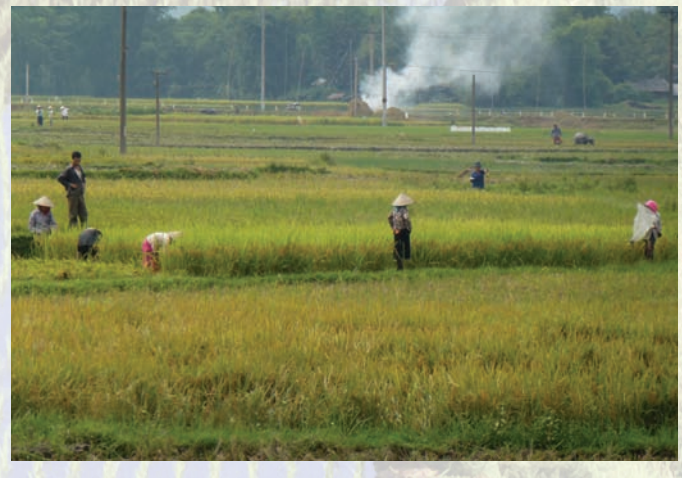
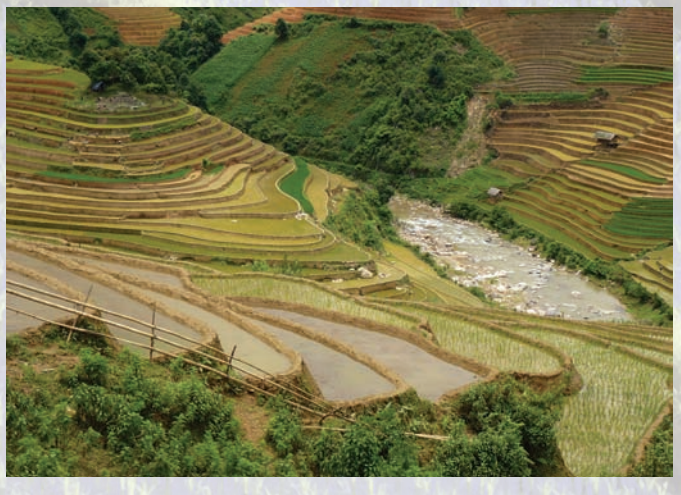


As core output, LEGATO will develop guidelines for optimising ecosystem functions and services given the local socio-cultural conditions and their stabilisation under future climate and land use change, which will particularly affect South and Southeast Asia. There is a clear need for crop productivity increases and diversification. LEGATO will analyse the potential of ecological engineering to achieve this, and test its implementation and transferability across regions. The latter is to be achieved through inclusion of local agricultural agencies and extension services as partners. Implementation will include assessments of ecosystem services risks and opportunities in the light of changes in land use intensity, biodiversity and climate.



Photos have been kindly provided by Lyubomir Penev, Pavel Stoev, Josef Settele

SPONSORED BY THE
Federal Ministry of Education and Research
SUSTAINABLE LAND MANAGEMENT
FONA Research for Sustainable Development BMBF

BMBF funding measure „Sustainable land management“
Module A: “Interaction between land management, climate change and ecosystem services”

LEGATO

RICE ECOSYSTEM SERVICES

Land-use intensity and Ecological Engineering – Assessment Tools for risks and Opportunities in irrigated rice based production systems

http://legato-project.net

Project duration: 1 March 2011 – 29 February 2016

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HELMHOLTZ CENTRE FOR ENVIRONMENTAL RESEARCH – UFZ

LEGATO aims to advance long-term sustainable development of irrigated rice fields, against risks arising from multiple aspects of global change. The overall objective is the elaboration and testing of generally applicable principles within the frame of ecological engineering – an emerging discipline, concerned with design, monitoring and construction of ecosystems.

The project plans to quantify the dependence of ecosystem functions (ESF) and the services (ESS) they generate in agricultural systems in seven landscapes in Southeast Asia: Luzon island (Philippines): Laguna Province, Central-Luzon and Ifugao Province; Vietnam: Hai Duong Province, Vinh Phuc Province and Sapa area along the Red River Valley; and Tien Giang Province in the Mekong Delta.