Project Partners and Research Centres

Partner Universities and Research Centres
- Universidade Agostinho Neto (UAN) - Luanda/Lubango
- Universidade XXV de Agosto (UAPA) - Cuito (Luanda)
- Escola Superior Politécnica do Meio Ambiente - Menongue
- University of Bremen
- University of Botswana (UNIBOT) - Gaborone/Maun
- Universidade Estadual De Campinas (Unicamp) - São Paulo
- Justus Liebig University Gießen
- University of Hamburg
- Friedrich Schiller University Jena
- Lisbon University Institute - Centre of African Studies (ISCTE-CEA)
- Phillips University Marburg
- University of Namibia (UNAM) - Windhoek
- Polytech/NUST of Namibia - Windhoek
- University of Trier
- German Collection of Microorganisms and Cell Cultures - Braunschweig
- Okavango Research Institute (ORI) - Maun
- Helmholtz Climate Service Centre (CSC) - Hamburg
- The University Centre for Studies in Namibia (TUCSIN) - Windhoek

Partner Institutions and Organisations
- Associação de Conservação do Ambiente e Desenvolvimento Integrado Rural (ACADIR) - Menongue
- Angola National Institute of Water Resources (NIWR) - Luanda
- Community Economic Development Project (CEDP) - Windhoek
- The Desert Research Foundation of Namibia (DRFN) - Windhoek
- Environmental Protection and Sustainable Management of the Okavango River Basin Project (EPSMO) - Luanda
- Kalahari Conservation Society (KCS) - Gaborone
- Ministry of Agriculture, Water and Forestry of Namibia (MAWF) - Windhoek
- Namibia Nature Foundation (NNF) - Windhoek
- The Permanent Okavango River Basin Water Commission (OKACOM) - Maun

Contacts

Project speaker:
Prof. Dr. Norbert Jürgens
Biocentre Klein Flottbek and Botanical Garden,
University of Hamburg,
Ohnhorststr. 18
D-22609 Hamburg,
Germany
Phone: +49(0)40 428 16 - 260
Fax: +49(0)40 428 16 - 261
e-mail: juergens@botanik.uni-hamburg.de

Namibia:
Dr. Ibo Zimmermann
Department of Agriculture and Natural Resource Sciences
Polytechnic of Namibia
P/Bag 13388
Windhoek/Namibia
Phone: +264 61 2072461
Fax: +264 61 2072143
e-mail: izimmermann@polytechnic.edu.na

Angola:
Prof. Dr. Fernanda Lages
Herbário do Lubango
Instituto Superior de Ciências de Educação da Huíla (ISCED),
Lubango
Phone: +244 926 008 674
Fax: +244 261 220 430
e-mail: f_lages@yahoo.com.br

Botswana:
Prof. Wellington R. L. Masamba
Acting Director
Okavango Research Institute
University of Botswana
P/Bag 285
Maun/Botswana
Phone: +267 6861833
(Switchboard)
Phone: +267 6817238 (Direct)
Phone: +267 72567734 (mobile)
Fax: +267 6861635
e-mails: wmasamba@orl.ub.bw
wmasamba@hotmail.com

Funding Agencies

www.nachhaltiges-landmanagement.de

www.future-okavango.org
The System

Sustainable land and resource management as well as related interdisciplinary research projects like The Future Okavango (TFO) demand for integrated data management systems to store, describe, analyze and disseminate information. These systems do not only have to take account of the possibly large range of varying data types and formats, but also have to consider different user groups and the demand for collaborative data access and data sharing. Within TFO these requirements are addressed with the development of the Okavango Basin Information System (OBIS). OBIS is designed as a web-based data management and analysis platform with full read/write access to all data. Its development was guided by the objective to make access to information and knowledge as easy as possible. At the same time, the usage of Open-Source Software and standard-compliant interfaces guarantees flexible operation and future-proof extensibility while ensuring that OBIS can be easily integrated into existing data and service infrastructures.

Architecture

OBIS provides functions to store, visualize and analyze a variety of data types:
- Stations and time series data (measured and simulated data, measurement stations)
- Geodata (raster and vector data)
- Documents (text and office documents, media files)
- Observations (soil, vegetation and other observations)
- Scenario data (development scenarios, indicators, scenario evaluations)
- Metadata (information about data, i.e. who, what, when, where, why, and how)

Functions
- Flexible data import and export functions
- Powerful search, browse and edit functions
- Mapserver for service-oriented delivery of geodata
- Web-map client for geodata visualization, map-based search and data exploration
- Time series analysis, gap detection and gap filling
- Flexible, user-oriented permission management
- Standardized service interfaces (CSW, WMS/WFS, SOS)
- Multi-lingual (English, Portuguese, German)
- Virtualization support for easy installation

Data Types

http://www.future-okavango.org/obis

Open-Source Software

OBIS is strictly based on Open-Source Software components that guarantee a cost-efficient and future-proof operation.