

Sustainable Water and Wastewater Management in Urban Growth Centres Coping with Climate Change - Concepts for Lima Metropolitana (Perú) -

Summary of the project

What is “LiWa”?

The LiWa project (“Sustainable Water and Wastewater Management in Urban Growth Centres Coping with Climate Change - Concepts for Lima Metropolitana (Perú) – Lima Water”) is a project of applied bi-national research, funded by the German Federal Ministry of Education and Research (BMBF). The project started with a preparatory phase in 2005, followed by a main phase from 2008 to 2013. Project partners include universities and research institutes from Germany and Peru, but also the water company of Lima and Callao and the NGO sector.



The main project objectives

- To elaborate efficient and sustainable strategies for planning and management of the water and wastewater system, considering also energy-efficiency and climate change
- To set up strategies which adapt to climate change
- Capacity building on methodologies, modelling, participatory approaches, urban planning considering the water cycle
- Exchange of knowledge, experience and technologies between Peru and Germany
- Support of sustainable urban development and capacity building in Peru and Germany



Products and results

Within the framework of the “LiWa” project, research and development took place on various aspects of water and climate change. The following results were obtained:

- Scenarios “Lima 2040” regarding the urban growth centre and its potential water supply in the future
- Application and regionalisation of global climate change models, describing precipitation and river flows in the Chillón, Rímac and Lurín catchments
- Simulator “LiWatool” and model of Lima and Callao for the integrated management of the water and wastewater system
- New forms of governance and participation of all interested stakeholders in the decision making process
- Capacity building using training modules about various topics related to water and wastewater as well as professional training courses
- Concepts for restructuring the water tariff system
- Strategies and tools for urban planning considering the water cycle
- “Action Plan” for sustainable water management for Lima and Callao, including the measures and actions agreed upon by the actors. This “Action Plan” was signed on 16 April 2013 in Lima by the key actors.
- Manual for transfer of the outcomes and experiences of the project to other megacities in the world.

Project co-ordination:

Dr. Manfred Schütze, ifak e. V. Magdeburg, Werner-Heisenberg-Str. 1, 39106 Magdeburg, Germany, manfred.schuetze@ifak.eu, Phone: +49-391-9901470

Ing. Christian D. León, ZIRIUS, University of Stuttgart, Project office, Calle Elias Aguirre 126, Of. 504; Lima 18, Perú leon@lima-water.de, Phone: +51-1-4440149

<http://www.lima-water.de>