

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

Integrated urban planning strategies and planning tools

Situation

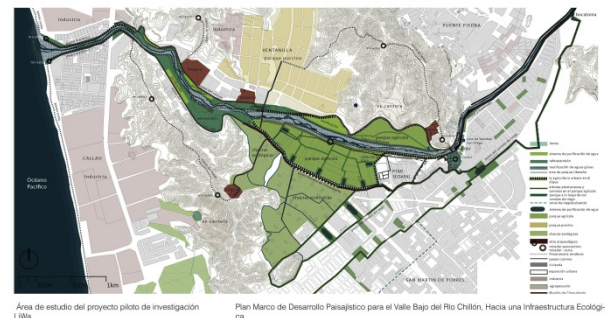
- Insufficient public green areas on metropolitan scale
- High consumption of potable water for creation of urban green
- Lack of co-ordination between urban planning and water supply/wastewater disposal

Methodology

- “Water Sensitive Urban Design” as a method to integrate urban planning, water management and ecological strategies to generate green spaces
- Collection, compilation and analysis of information and creation of working groups
- Contribution to development strategies and actions of planning instruments
- Integrated research during the academic semester at the University of Stuttgart and fieldwork through two international, interdisciplinary summer schools “Lima Más que un Parque I y II” (<http://limabeyondthepark.wordpress.com/>)



_ habitabilidad del Valle Bajo del Río Chillón
SOSTENIBILIDAD A LARGO PLAZO PARA EL DESARROLLO SOCIAL, CULTURAL Y ECONÓMICO



Results

Lima Ecological Infrastructure Strategy (LEIS) based on:

- LEIS Principles, a set of rules for water sensitive urban development, considering the integration of water and wastewater into planning and open space design.
- LEIS Tool, serves as a GIS-based planning tool that quantifies demand, availability and potentials for the reuse of water supporting planning and sustainable open space design.
- LEIS Manual, a set of Water Sensitive Urban Design measures guiding the design process of green areas towards development of water-sensitive green spaces.
- Conceptual design of the “Ecological River Park Chuquitanta” as part of LEIS and the development of a pilot project of LiWa in the lower basin of the Chillón river, Chuquitanta, Lima.

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