



Introduction into the international interdisciplinary project Housing Manufacturing Water

Short course 2012 at UFES
Vitoria, Brazil



History



-
- The project was conceived in 2009 by an association of three departments of the Technical University Berlin:
 - ➔ Urban Planning (Prof. Herrle)
 - ➔ Assembly Technology (Prof. Seeliger) and
 - ➔ Water Conservation (Prof. Jekel), since 2011 Urban Water Management (Prof. Barjenbruch)
 - Together with university partners from 6 countries from Africa and Latin America
 - Project title:
 - ➔ Housing – Manufacturing – Water for the urban poor: Enabling actors and capacity building for appropriate technologies
-



University Partners HMW





Background



- Rapid growth of global urban population poses a challenge for urban living conditions which becomes a key factor shaping the lives of billions of people
 - Achievement of Millenniums Development Goals as well as the responsibility for the improvement of the living conditions of the world's poorest societies are significantly part of the expertise areas of the involved departments:
 - ➔ Development of sustainable housing areas
 - ➔ Supply of drinking water and
 - ➔ Generation of income sources
-



Background



- TUB has large teaching and research experiences in those areas
 - TUB also is continuously collaborating with international partners to provide and develop in-cooperation academic expertise
 - TUB is permanently constructing sustainable local development structures via local partners
 - TU partners on their side, offer their own expertise and direct access to local networks for effective involvement with the complexities of the problems to be addressed
-



Objectives



- The project will provide a platform to integrate these competences in an academic network in order to link the specialists in housing, water and income generation from Germany and the partner countries and to pool teaching, scientific and technological resources
 - The main aim is to develop capacity building through teaching, with direct involvement of stakeholders and local actors in local projects to be taken as cases of study for the academic network group „Housing - Manufacturing – Water for the Urban Poor“
-



Objectives



In detail the aims of the project are

- to create an interdisciplinary international network responsible for building up an educational structure regarding the housing, manufacturing and water competence field through multidisciplinary joint projects on an international scale
 - Exchange of researchers and students, carrying out workshops and symposiums to the continuous improvement in teaching methods among the partner universities
 - Involvement of Non Governmental Organizations (NGOs) as well as local politicians and industry in these multidisciplinary projects in order to increase the efficiency of the capacity building process
-



Additional benefits of the project



- Curriculum and research development at partner universities
 - Implementation of international study programs
 - Building of networks, as well as support and furthering of South-South networks
 - Perpetuation of partnerships
 - Recruiting partners as multipliers in relation to the intercultural understanding and
 - Raising the level of sensitivity and awareness of the German higher education institutions in view of development relevant issues
-



Activities



- Amongst others: Case study with joint short course:
 - ➔ Each expertise field, namely the Housing, Manufacturing and Water knowledge areas will develop a short course related to their knowledge area together with their partners in the local region of the partners
 - ➔ At the end this will be combined and integrated into a joint case study which will then have the potential for further replication to other geographical regions
 - ➔ Results will be presented in the short course each year in the local area of the partner
 - Seminars, workshops and field trips
 - ➔ in order to prepare the yearly short course and providing the host with support for the organisation
-

“Comprehensive reconstruction after a catastrophe”

- Organized by Universidad de Concepcion, Chile
- 39 Participants
- 16 Presentations
- Strategies for infrastructure's and building's reconstruction after a catastrophe were presented
- Case study focused on Talcahuano's wharfs





2010 First HMW Short Course: Concepción, Chile



“Comprehensive reconstruction after a catastrophe”

Results and lessons learned

- Consolidation of base consortium
 - ➔ Get to know who you are working with
 - First attempt to integrate a joint multidisciplinary project
 - ➔ Understand your partner's capacities and interests
 - First approaches to community leaders and governmental institutions
 - ➔ Integrating them is a must not an „plus“
 - No long term joint projects as an outcome
 - ➔ Integrate areas of interest and present a joint project proposal
-



2011 Second HMW Short Course: Stellenbosch, South Africa



“Sustainable manufacturing and water technologies towards housing in a blue economy: Integration in South Africa’s cultural framework”

- Organized by Stellenbosch University, South Africa
 - 24 participants, several presentations of project partners from South Africa, Brazil, Chile, Germany, France
 - Discussed strategies for an ecological and source saving planning, constructing and operating of infrastructures, buildings and settlements for the poor in South Africa
 - Planned a case study focused on Delft, an already existing settlement near Cape Town
 - Ongoing students’ project in 2012 to continue work and to apply for more money for the practical project
-



2011 Second HMW Short Course: Stellenbosch, South Africa



Results of the students' project will be presented at the beginning of 2012 years' short course



2012 Third HMW Short Course: Vitoria, Brazil



“Towards new sustainable communities”

- Starting point: presentation of the results of the students' project, which continued the work started in Stellenbosch last year
- Discuss and find out the things which can be used for / adapted to similar settlements in Vitoria/Brazil
- ?
- ?

Good discussions and useful results for all of us!



Special Thanks to...



Sponsored by:

DAAD

Deutscher Akademischer Austausch Dienst
German Academic Exchange Service

Budget & Conditions:

- Duration of the Project: 2010 – 2013
 - Budget: around 90,000 EUR per year
 - HMW is basically a mobility program
-