International Urbanistics and Global Context: Research, Teaching and Cooperation Expertise in the Habitat Unit

Dr. Astrid Ley, TU Berlin
Short Course „Housing Water Manufacturing“, Centro EULA-Chile, 6.-9.12.2010
Habitat Unit

Chair for Architectural Design and International Urbanism
Technische Universität Berlin | Berlin Institute of Technology
School of Planning - Building – Environment | Dept. of Architecture
Prof. Dr.-Ing. Peter Herrle
Housing is not limited to the conventional notion of ‘providing buildings’: It includes technical (structural, climatic, and cultural) as well as infrastructural, social, and economic aspects.

The state is not the only actor in housing development: instead of bureaucratic state provision new forms of partnerships are needed to solve complex problems.

Housing solutions need the inclusion of beneficiaries. Participation ensures community buy-in and empowerment as well as long-term ownership of projects.

The role of experts change from providing technical solutions to enabling actors (private sector, communities) in the housing system.
## Philosophy

### 1960s Providing approach
Mass public housing and slum clearance
Too costly, low maintenance and rental payments, slum-like conditions and growing backlog

### 1970s Self-help approach
Sites-and-services and physical upgrading
Peripheral location, speculation, crowding-out, increased vulnerability

### 1980s Enabling approach
Community-driven housing and market-driven housing
Lack of capacity, mistrust, distortion of land market

### 1990s Urban management
Capacity-building, good governance, partnerships
Idealised partnership conception, complex and heterogeneous relationships

### since 2000 Juxtaposition
Driving and enabling approaches
Return to instant solutions versus community-driven processes
From Providing Houses to Enabling Actors

**Philosophy**

**Housing**

- **From Product to Process**
  It includes technical, infrastructural, social, and economic aspects.

- **From Proving to Enabling**
  New forms of partnerships are needed to solve complex problems.

- **From Regulation to Participation**
  Ensures empowerment and ownership of projects.

- **From local to multi-level**
  Institutional responses to housing crisis need multi-level approaches.

Philosophy:

- New forms of partnerships are needed to solve complex problems.
- Ensures empowerment and ownership of projects.
- Institutional responses to housing crisis need multi-level approaches.

It includes technical, infrastructural, social, and economic aspects.
<table>
<thead>
<tr>
<th>Conventional Planning</th>
<th>Pro-active Planning approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residents as recipients</td>
<td>Residents as actors</td>
</tr>
<tr>
<td>Experts/State as Provider</td>
<td>Experts/State as enabler</td>
</tr>
<tr>
<td>Product oriented: combat symptoms</td>
<td>Process oriented: Create prospects</td>
</tr>
</tbody>
</table>
Levels

Faster and easier but less input by residents

Slower and more complex but more input by residents

Source: Hamdi/Goethert, 1997: 66
Short Course Program Housing – Manufacturing – Water, Centro EULA-Chile, 7.12.2010
Understanding underlying processes, strategies and architectural aspects

Patterns and processes of urbanization in Africa, Asia and Latin-American

Planning strategies (e.g. strategic planning, action planning); housing improvement strategies (sites-and-services, upgrading, regularization);

Vernacular and traditional architecture, cultural identity in architecture, climatic and social aspects of building

Short Course Program Housing – Manufacturing – Water, Centro EULA-Chile, 7.12.2010
Research

‘The dynamics of peri-urbanization in the Pearl River Delta’
Part of the priority program: Megacities – Mega challenge. Informal Dynamics of Global Change, DFG, 2006-2010. (Prof. Herrle / Prof. Ipsen, Univ. Kassel)

‘Carriers of Space Patterns and Construction Types’, German Migration and Architecture in Chile 1850-1890
Chilean FONDART (Renato D’Alencon)


Environmental Management in low-income settlements, cross country study and guidelines for improvements, GTZ, 2000-2002

Phd Thesis

ca. 20 Phd research topics about informality, building culture, mega city development and housing provision

Short Course Program Housing – Manufacturing – Water, Centro EULA-Chile, 7.12.2010
The Dynamics of Peri-urbanization and the Role of Urban Villages

• Prof. Dr. Peter Herrle, TU Berlin
• Prof. Dr. Detlef Ipsen, Univ. Kassel

Deutsche Forschungsgemeinschaft DFG
"Carriers of Space Patterns and Construction Types"

German Migration and Architecture in Chile 1850-1890

Renato D’Allencçon C., M. Arch.

TU Berlin & PUC
Chilenean FONDART
## Recent Doctoral Theses Completed

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ley, A.</td>
<td>Housing as Governance. Interfaces between Local Government and Civil Society Organizations in Cape Town, South Africa.</td>
<td>2009</td>
</tr>
</tbody>
</table>
| Hantouch, Y.      | Bausteine für klimagerechtes Bauen in Syrien  
[Building Blocks for Climatically Responsive Housing in Syria] | 2009 |
| Kundoo, A.        | Building with Fire. Baked In-situ Mud Houses of India: Evolution and Analysis of Ray Meeker’s Experiments | 2008 |
| Schlack, E.F.     | Städtebaurecht und öffentlicher Raum. Eine vergleichende Studie über Santiago de Chile und Berlin.  
| Günes, N.         | Wohnformen türkischer Migranten in Deutschland  
[Life Style Patterns of Turkish Migrants in Germany] | 2007 |
Publications

Recent publications with housing focus from the ‘Habitat International’ series, edited by the Habitat Unit

Ley, A. (2010), Housing as Governance. Interfaces between Local Government and Civil Society Organisations in Cape Town, South Africa, Habitat International Series. Münster: LIT.


Degrees

Building Capacities of future architects, urban designers and planners

Regular Degree Programs
- Architecture
- Urban and Regional Planning (‘Planning in an International Context’)
- Urban Design
- Landscape Architecture and Planning

Dual-Master Program in Urban Design (Sino-German)
- in co-operation with the Tongji University in Shanghai/China

Dual-Degree Program in Architecture (Chilean-German)
- Focus on "Design-Construction-Energy" in co-operation with the Pontificia Universidad Católica in Chile

Postgraduate Master in Urban Management Studies
- International participants with at least 2-year job experience

Short Courses in Urban Management
- 2-week trainings in tailor-made courses for experts and decision-makers
MASTER IN URBAN DESIGN
REGULAR / DUAL DEGREE PROGRAM
TU Berlin – TU Berlin / TONGJI UNIVERSITY SHANGHAI
Urban Management Masters Course

1. Creating a common understanding of urban development
2. Strategies and techniques of urban management:
3. Thesis and Internship (in Germany or in home country)

Examples for Masters thesis:
- Solid waste service delivery for slum areas through strengthening partnership between local government and NGOs (Dhaka City, Bangladesh)
- Investigation and research on the compensation for the relocation in Shanghai, China
- A Management Plan for the Old Town of Leh, Northern India
Urban Management Masters Course

Degrees

Short Course Program Housing – Manufacturing – Water, Centro EULA-Chile, 7.12.2010
Urban Management Short Course

since 1990:
- Approx. **800 trainees from 25 countries in Africa, Asia and Latin America**
- **52 short courses**

Examples for Short Courses:
- **'Local governance improvement strategies'** for 15 planning experts from Bangladesh (2009)
- **'Sustainable urban planning'** for 9 experts from the Ministry of Local Administration and Environment, Syria (2008)
- **‘Urban Planning + Urban Management'** for 23 urban planners of local authorities in Beijing, China (2007)
Teaching

Lectures
„Global Cities Local Space“ = Understanding urbanization patterns and prospects

Thematic Courses
Focus on specific topics, selected reading in urban theory – e.g. Water in the Cities of the South

Design Studios/ Projects
Applied research and design including practical field work and joint workshops with partner institutions in Berlin and abroad – e.g. Proyecto Costa Maule

Urban Research & Design Laboratory’ (U-LAB)
Applied urban research for Berlin in collaboration with external actors and practitioners.
Topics

What is a City?
Definitions and Typologies

What is Urbanization?
From Rural to Urban

What is Globalization?
Global Cities and Local Space

What is Informality?
Economy – Settlement – Governance

What is Urban Planning?
Statutory - strategic - action planning
Thematic Courses

Water in the Cities of the South

- Urban water management in developing countries: situation, components and principles
- International/bilateral organisations: concepts and approaches
- Institutional structures and steering models
- Water governance / participation
- Financial management
- Innovative technologies

Short Course Program Housing – Manufacturing – Water, Centro EULA-Chile, 7.12.2010
Proyecto Costa Maule
Project for Enduring Reconstruction
after the Earthquake of February 27, 2010, Chile

TU Berlin + PUC Chile
International Cooperation Program

Renato D’Alençon C., M. Arch.
Felipe Kramm T, M. Sc.

Teaching Projects

Reconstruction Prototype
Sustainable Settlement development in Oman

Al Khoudh, Muscat 2010

Habitat Unit in cooperation with the German University of Technology in Muscat, Oman

Photos: Sonja Nebel
Partnerships with Universities
Partner in program “Housing Water Manufacturing” as part of “Subject-related Partnerships with Institutions of Higher Education in Developing Countries” program (DAAD)
Tongji University Shanghai, China
Pontificia Universidad Catolica de Chile, Santiago, Chile

International Academic Cooperations
China, India, Singapur, Turkey, Uzbekistan, Algeria, Egypt, South Africa, Syria, Argentina, Brazil, Chile, Mexico, Peru

Networks
Representative of TU Berlin in ‘UN-Habitat Partner Universities Network’
Member of Habitat International Coalition (HIC) and N-AERUS Network- Association of European Researchers on Urbanisation in the South

International Development Cooperations
International organisations and bilateral agencies (GTZ, InWent, UN-Habitat, Cities Alliance)
Non-Governmental Organisations (Shack/Slum Dwellers International, Habitat International Coalition, Tibet Heritage Fund)
Local governments: City of Cape Town, Yangzhou, Aleppo

Short Course Program Housing – Manufacturing – Water, Centro EULA-Chile, 7.12.2010
Advisory services are offered by Habitat Unit staff for governmental and non-governmental organisations in the field of urban regeneration, upgrading and action planning.

- **Nepal**: Urban Development Project II (UDLE) Project Review (GTZ)
- **Yemen**: Shibam Urban Development Project. Project Review Mission (GTZ)
- **China**: Sustainable Urban Development Program in Yangzhou, Strategic Plan for Upgrading the Inner City of Yangzhou, China. (Cities Alliance / GTZ)
- **South Africa, Malawi**: Securing Land and Basic Services for Low-income Urban Families. Evaluation of SDI Strategies (IIED, SDI)
- **Syria**: Aleppo Old City Rehabilitation Project (GTZ/ Municipality of Aleppo), "Conservation and Development Strategy"
- **El Salvador**: Evaluation on the feasibility of a spatial planning project “Ordenamiento Territorial Regional Asociativo”, OTRA La Paz (GTZ / Vice Ministry of Housing and Urban Development)
Offering Competence in a Complex Field

Students of the Urban Management Masters program participate as young experts in urban project in a developing country or country of transition

- 2007: GTZ-Project ‘Slum Upgrading’ in Aleppo, Syria
- 2008: GTZ-Project ‘Sustainable Tourism Development’ in Montenegro
- 2009: GTZ-Project ‘Urban Infrastructure and Urban Governance’ in Dhaka, Bangladesh
- 2010: GTZ-Project ‘Urban Governance and Urban infrastructure’ in Cairo, Egypt
Thank you for your attention
Contact

Astrid Ley
Dr.-Ing. Architecture and Urban Design

Technische Universität Berlin
Fakultät VI: Planen - Bauen - Umwelt
Institut für Architektur / Habitat Unit (A 53)
Straße des 17. Juni 135, 10623 Berlin, Germany
tel. +49 (0)30 314 21908
fax. +49 (0)30 314 21907
email. astrid.ley@tu-berlin.de

web. www.habitat-unit.de
www.habitat-unit.de/urbandesign
www.urban-management.de