



**Ghana \* atelier 2009**

The "Working on Cities studio" is a joint project by the Academy of Architecture Rotterdam (AvBR), the Institute for Housing and Urban Development Studies (IHS) and the Kwame Nkrumah University of Science and Technology (KNUST) in Kumasi, Ghana.

The project was an exceptional opportunity for students to work in an interdisciplinary and international group set-

ting, with participation from architects, urban designers and urban management professionals from housing, environment, planning, governance and social development disciplines and from countries across the globe. Some 24 participants worked together in 4 groups over a period of 8 months on the development of a sustainable integrated development plan and design projects for the informal and low income settlement of Ayigya in Kumasi,

Ghana. A series of 3 weekend workshops, study tours to Ghana, lectures were organised before student design and research work was presented. The study tours to Ghana included a workshop with students from KNUST. These panels present the design outcomes of these workshops. A paper presented in the conference focuses on the unique process of the project and the research outputs.

**TEAM AVBR**

**Academy of Architecture and Urban Design Rotterdam**  
Ralf Pasel, Visiting Professor  
Franziska Sack

**John de Groot**  
Perspectives in Urban Planning//  
Perspectives on Informal Africa

**Henk Jan Imhoff**  
Strategies for Informal Settlements//  
So many people, so many solutions

**Jens Jorritsma**  
Organizing Urban Development//  
Who's in control

**Remy Jansen**  
Making Architecture//  
Building Materials in Ghana

**Sandra van Dijk**  
Analysing Urban Growth//  
Stadsontwikkeling Kumasi

**Immanuel Sirron-Kakpor**  
Imitating Existing Structures

**NETHERLANDS**

**Pieter Waijer**  
Social Processes//  
Help

**Anne van der Heijde**  
Learning from the Practice//  
Housing Typologies in Ghana

**Roos Limburg**  
Complexity of Social Dynamics//  
The Land of the Chiefs

**Ab Oosterwaal**  
Coincidental Developments in the  
Building Process//  
Ghanaian Urban Society and Slum Life

**Edwin Tukker**  
Correlation between the Built Environ-  
ment and Social Behaviour

**NETHERLANDS**

**GHANA \* NETHERLANDS**

**TEAM IHS**

**Institute for Housing and Urban Development**  
Ellen Geurts,  
Alonso Alaya

**Aldrin Baral Plaza**  
Empirical Assessment of Adaptive  
Capacity of Low-Income Com-  
munities to the Impacts of Climate  
Change and Flooding: The Case  
of Ayigya in the City of Kumasi,  
Ghana

**Vincent Kizito Rwigamba**  
Contribution of rural-urban linkag-  
es to equitable regional economic  
development in Ghana: a case of  
Kumasi, Ghana.

**Charmae Pyl Capuyan Nercua**  
Research into Mechanisms and  
Strategies to stimulate the supply  
of rental housing by small-scale  
landlords in Ayigya, Kumasi

**Mutia Razali**  
Improving Solid Waste Manage-  
ment at collection level in Ayigya  
neighbourhood through community  
approach

**Lisa Christine Hosale**  
Exploring urban informality in the  
context of traditional land use  
plans: compound housing

**Mwinlanaah Yuonayel**  
The Upgrading of Informal  
Housing Settlements in Kumasi.  
Understanding Land Development  
Related Constraints in Ayigya.

**PHILIPPINES**

**INDONESIA**

**I Nyoman Gede Maha Putra**  
Fitting Participation into Develop-  
ment: Community Participation in  
Spatial Planning in Ayigya District  
Kumasi Ghana

**Denny Surya Martha**  
Low-End Rental Housing

**Dyah Arianti**  
Communicating the city plan: How  
to re-bridged the gap in communi-  
cating city plan from government  
to common people?

**Liang Thay Siek**  
Technological Assessment of  
Bamboos as Building Material to  
Reduce House Cost in Kumasi,  
Ghana

**Sri Hidayah**  
Analyzing the Impact of Local  
Economic Development Policy of  
Kumasi Metropolis to the Growth  
of Micro Small Enterprises in  
Ayigya

**INDONESIA**

**INDONESIA**

**TEAM KNUST**

**Kwame Nkrumah University of Science and Technology**  
Prof. George Intstifful

**Michael Twum-Barimah**  
Work in Progress

**Ruth-Anne Ankrach**  
Work in Progress

**Deborah Suong Sory**  
Work in Progress

**Harriet Naa Odarley**  
Order in Chaos

**Emmanuel Fobi Asaber**  
Order in Chaos

**Elvis Asiedu**  
Order in Chaos

**Daniel Adomoko-Mensah**  
Transformation of Compound House

**GHANA**

**Emelia Gyasiwaa Agyiri**  
Transformation of Compound House

**David Amugi**  
Transformation of Compound House

**Bernard Opoku**  
Transformation of Compound House

**Eledi Joyce Angrayeli**  
Ayigya Market

**Adeline Mawupemor Woyome**  
Ayigya Market

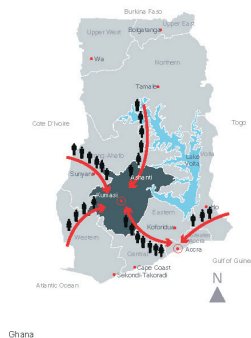
**Robertsen Azantilow**  
Ayigya Market

**GHANA**

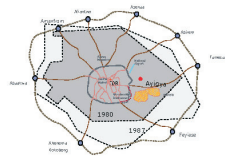
STUDENTS & THE TITLES OF THE POINT OF DEPARTURE

STUDENTS & THE TITLES OF THE MASTER THESIS

STUDENTS & THE TITLES OF KNUST WORKSHOP



Ghana



Kumasi Metropolitan Assembly



Ayigya



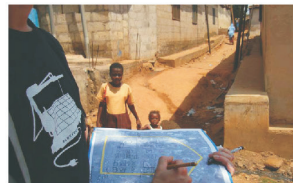




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**Action Planning Workshop**

In this workshop each group developed an action plan for Ayigya, whereby different objectives, concrete actions, time planning and a budget were formulated. The starting point was the development of a problem tree by each group to arrive at (different) focus areas for Ayigya by each group.

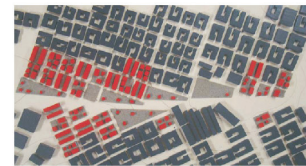


**Study Tour AvBR**

The AvBR went to Ghana for two weeks, whereby they visited several upgrading projects of informal settlements in the first week and had a design workshop together with KNUST students in the second week. Information was collected of the households on Ayigya, urban plans were updated and the housing and physical planning profile of Ayigya was documented.

**Workshop Concept Project Design**

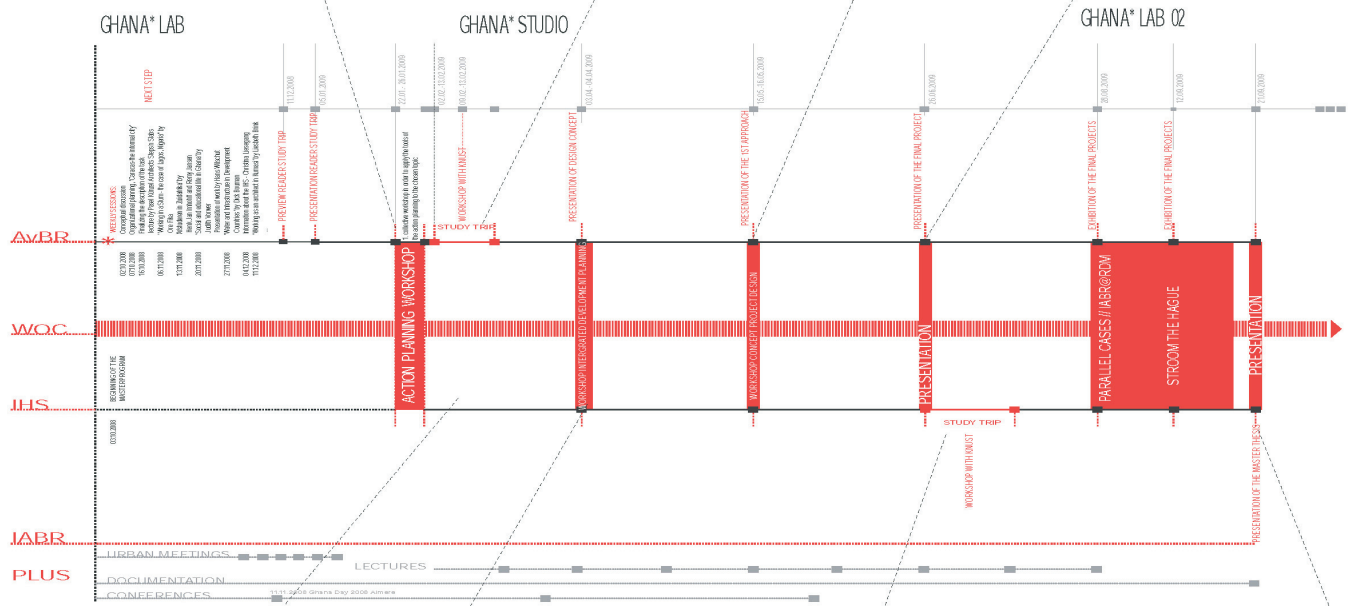
In the final workshop each group presented their objective and strategies for Ayigya and the project designs that support the implementation of these strategies. This workshop showcased the intense discussions that took place between urban managers and architects/urban designers to arrive at designs that are sustainable development projects for Ayigya.



**Presentation**

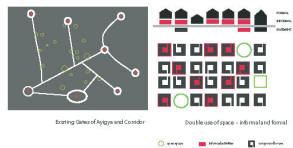
In this workshop the final work, consisting of project designs and integrated development plans for Ayigya, of the four groups were presented. The project design outcomes for Ayigya focused on the following topics:

- The Royal Trees: Ayigya the true garden city of West Africa
- Sub-C, Centre, Corridor, Commerce
- Stretching Social Structures: ADAPting the urban compound house to modern living
- Ayigya works!



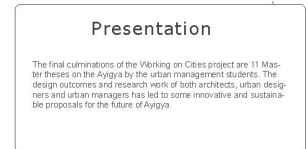
**Workshop IDP**

In the second workshop of IHS and AvBR students, the experiences from the AvBR study tour were shared. Examples of upgrading projects were shared with students as well as the theories of integrated development planning. All four working groups developed a vision and objective for the future of Ayigya to support the formulation of design projects.



**Study Trip IHS**

The IHS spent one full month in Ayigya to conduct field work research. Their research studies are based on the focus areas of the group work but have focused on a detailed aspect of the group design. The individual and group research work included household surveys, in-depth and focus group interviews as well as observation and was conducted in close cooperation with students of Architecture from KNUST. Intensive consultation with the stakeholders and (local) government were also conducted.



**Presentation**

The final culminations of the Working on Cities project are 11 Master theses on the Ayigya by the urban management students. The design outcomes and research work of both architects, urban designers and urban managers has led to some innovative and sustainable proposals for the future of Ayigya.



