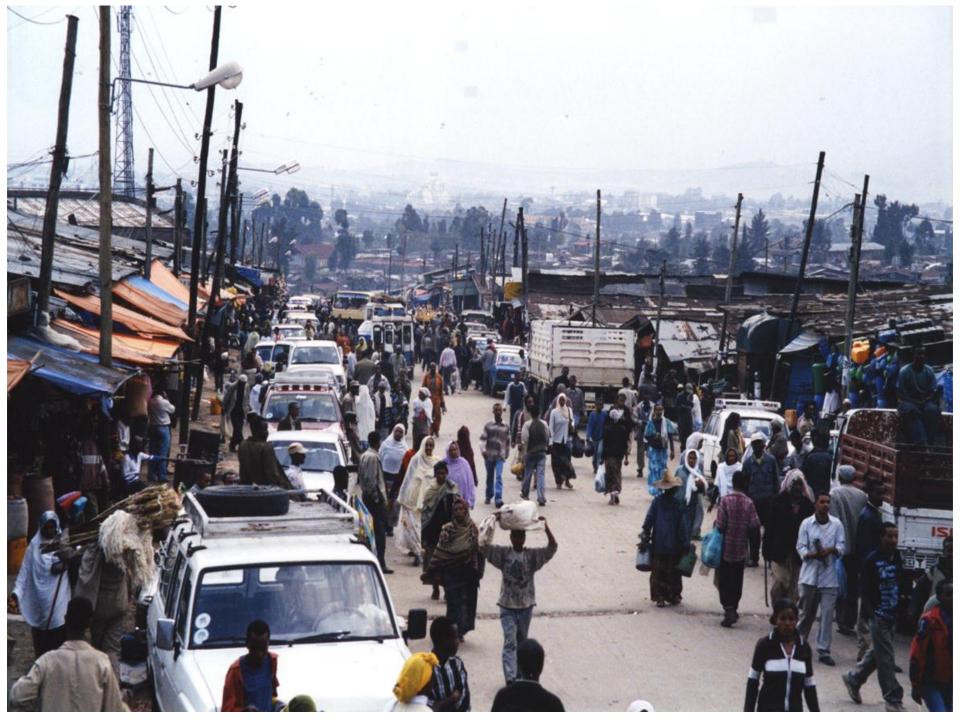




## Addis Through the Looking-Glass



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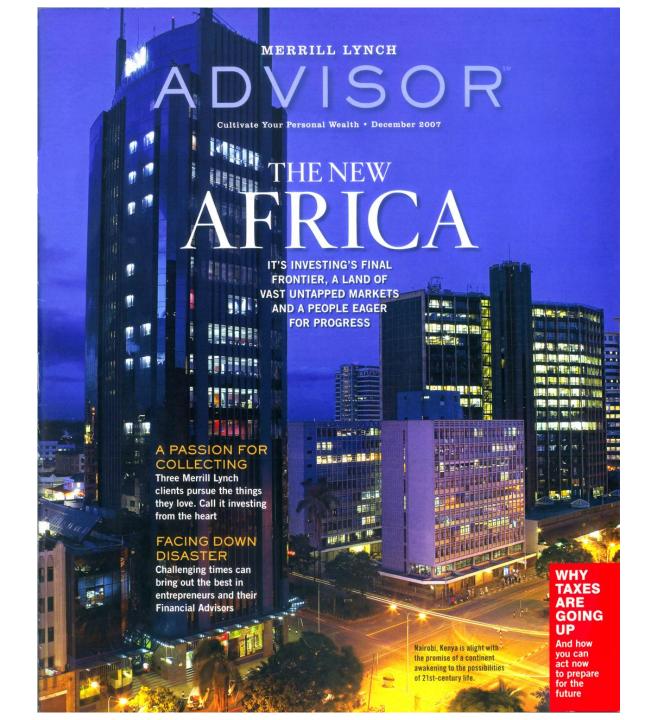


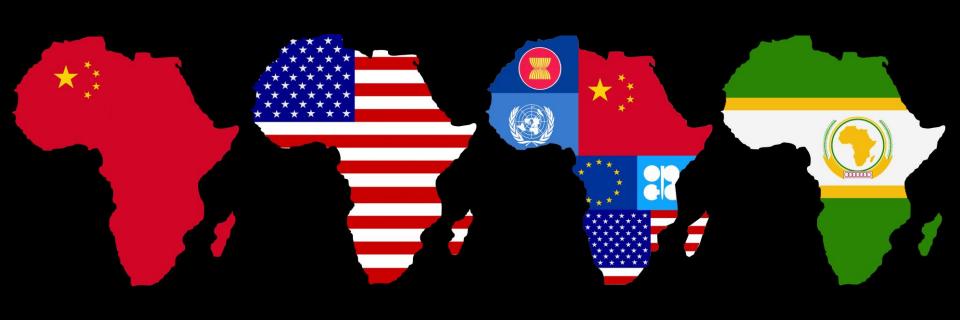






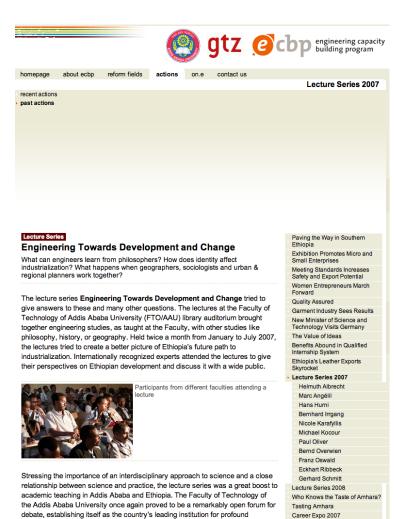


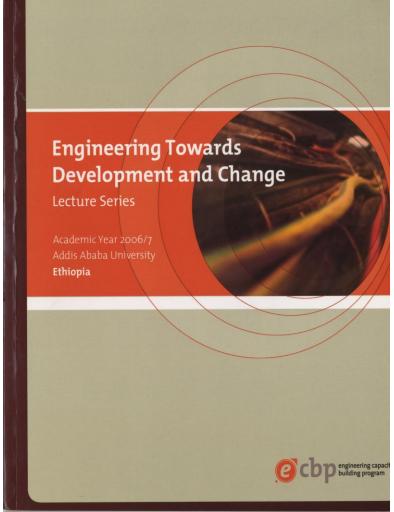






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ethioskills' 99

discussion on innovation.



### AGREEMENT

BETWEEN

### THE SWISS FEDERAL COUNCIL

AND

### THE GOVERNMENT OF THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA

ON

### CAPACITY BUILDING AND RESEARCH PARTNERSHIP BETWEEN SWISS AND ETHIOPIAN INSTITUTIONS IN THE FIELDS OF SCIENCE AND TECHNOLOGY

The Swiss Federal Council and the Government of the Federal Democratic Republic of Ethiopia, henceforth to be referred to as "the Contracting Parties",

HAVING REGARD to the friendly relations existing between the two countries, as established by former agreements, and the desire to strengthen them,

CONSIDERING that the development of scientific and technical relations shall be of mutual benefit to both countries,

RECOGNISING the importance of capacity building for sustainable development as expressed by Ethiopia, and the readiness of Switzerland to contribute to the development of capacity in specified areas,

DESIROUS of strengthening scientific and technological cooperation between the two countries,

CONSIDERING the importance of research partnerships in the fields of science and technology and therefore desirous to further promote capacity building through research collaboration, training, and information generation and transfer;



ድን.2ን.ዎችና በሌላ የትማበራ ስምምነት መሠረት ተከናውነው አስከሚያልቁ ቀጣይነት ይኖራቸዋል።

### ስንቀጽ አሥራ **አን**ድ

ይህ ስምምነት ሲሻሻል የሚችለው በሁሉቱ ተዋዋይ ወገኖች ፌቃድ ዲፕሎማቲክ መስመር በጠበቀ ሁኔታ በሚያደርጉት የጽሑፍ ልውውጥ ይሆናል። የተሻሻለው ስምምነት በዚህ ውል አንቀጽ ስምንት መሰረት ተፌባሚ ይሆናል።

ስምምነቱ በእንግሊዘኛ፣ በአማርኛ፣ በጀርመንኛና በፈረንግይኛ በሁለት ሁለት ቅጅ ተዘጋጅቶ ሥልጣን በተሰጣቸው የመንግሥት ተወካዮች ባሉበት ተፈርሟል። በሁለም ቋንቋ የተባፉት ውሎች ተፌባሚነታቸው እኩል ነው። ሆኖም በሰነዶቹ መካከል የትርጉም ልዩነት ቢኖር የእንግሊዘኛው ሰነድ ተፈባሚነት ይኖረዋል።

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ሚኒስትር የሣይንስና ቴክኖሎጂ ሚኒስቴር







# EiABC

Ethiopian Institute of Architecture, Building Construction and City Development የኢትዮጵያ አርክቴክቸር፣ ህንዓ ግንባታ እና ከተጣ ልጣት ተቋም Addis Ababa University አዲስ አበባ የኒቨርሲቲ STRATEGIC PLAN AND CHANGE MANAGEMENT CONCEPT FOR SETTING UP THE ETHIOPIAN INSTITUTE OF ARCHITECTURE, BUILDING CONSTRUCTION AND CITY DEVELOPMENT

DIPL. ARCH. ETHZ/SIA / MARCH PRINCETON

**DIRK HEBEL** 



**AUGUST 12, 2009** 

Prepared by Dirk Hebel, Franz Oswald and Otto Künzle, Zürich, July/August 2009











### **EiABC** Ethiopian Institute of Architecture Building Construction and City Development

Addis Ababa University

# SUDU

SUSTAINABLE URBAN DWELLING UNIT

EIABC PRESENTS IN COOPERATION WITH THE FEDERAL INSTITUTE OF TECHNOLOGY (ETH) IN ZÜRICH:

ETHiopia Urban Laboratory: The SummerSch

June 28th - July 18th 2010, Addis Ababa, Ethiopia

### Contex

Within the next 15 years, Ethiopia will be confronted with an additional 45 million people with the basic needs of food, water, safety and shelter in already over-strained or not yet existing urban settlements. The next decades will be fundamental in shaping the long-term future of the country, but the methods, instruments and ideas needed for this urgent development are still to be identified. The interdisciplinary ETHiopia Summer School will bring together faculty members and students from ETH Zurich and the Ethiopian Institute of Architecture, Building Construction and City Development (EIABC) to investigate the most critical topics regarding Ethiopia's development and to take practical steps towards a sustainable solution.

### Goal

A full-scale, low-cost prototype building in the form of a SUDU (Sustainable Urban Dwelling Unit) will be the primary outcome of the summer school. The offered case studies will not only provide hands-on methods for sustainable urban development in Addis Ababa, but also offer a vision for other regions in Africa. Follow-up projects are expected to build upon the first experiences, both within Ethiopia and elsewhere.

### Outline

- The ETHiopia SummerSchool will be composed of 12 students from the ETH Zurich and 20 students from EIABC in addition to faculty members with different fields of expertise. The summer school will consist of four thematic tracks:
- Architecture and Construction
- Entrepreneurship
- Water and Sanitation
- Energy

During first week, all students will receive an introduction to all topics relevant to the SUDU project and development work in general. This will be achived through a series of lectures by Ethiopian and international experts. In weeks 2 and 3, all involved partners will work on the full scale SUDU project as an intergrated design project with different thematic tracks. The work will be exhibited at the end of the summer school in the completed SUDU with invited guests from the government, city administration and academia.

### Date

June 28th - July 18th 2010 at EiABC Addis Ababa, Ethiopia

### Application

All parties of EiABC, AAIT, AAU, other academic institutions and the private sector are invited to participate. Please contact the SUDU Team for any information and ideas.

We especially invite students to be part of the SUDU team and work with students from the ETH in a very close relationship. Please apply in the Management Office of EiABC, Scientific Director Dirk Hebel and leave a one page ionformation sheet with your name, phone number, email and other contacts.

### Coete

EiABC will cover all costs regarding the working materials necessary during the program. Participants must cover personal expenses and meals during the program.

### **Project Team EiABC:**

Prof. Herbert Schmitz, EiABC Prof. Dr. Elias Yitbarek, EiABC Tibebu Daniel, EiABC Dirk Hebel, Scientific Director EiABC, ETH Zürich

Eith sustainability

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich







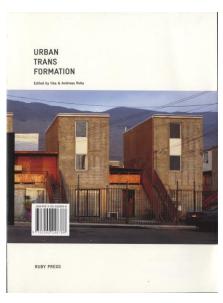
Faculty of Architecture





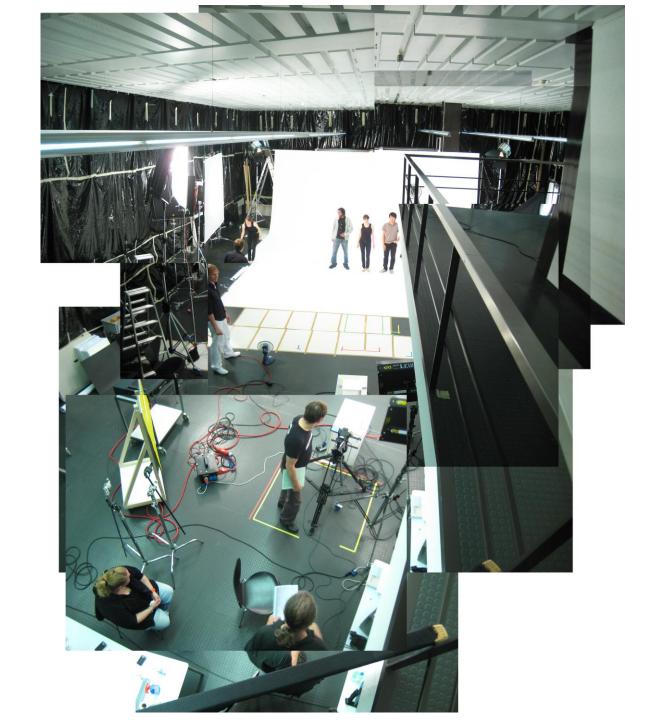
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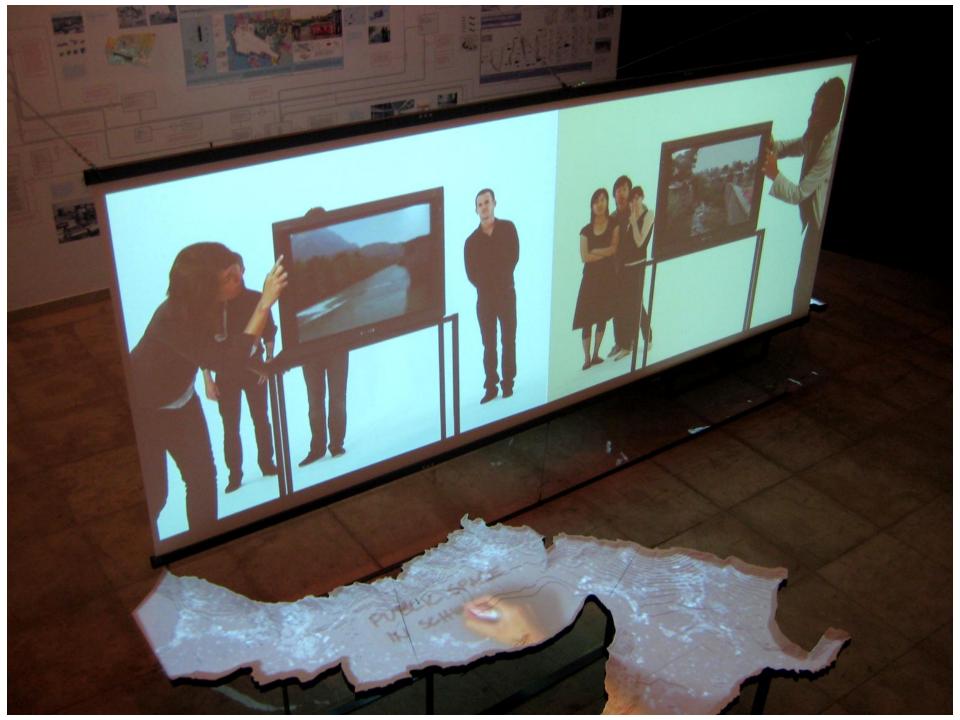






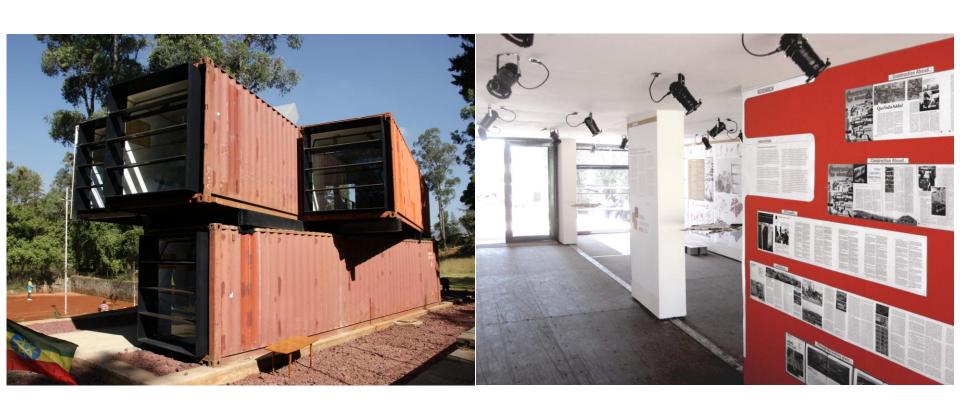














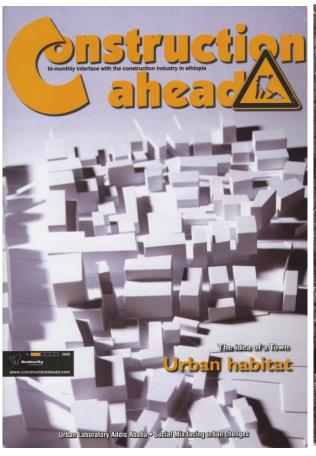


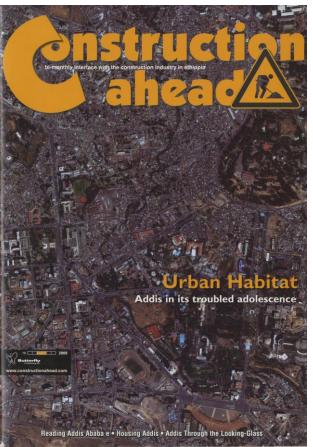




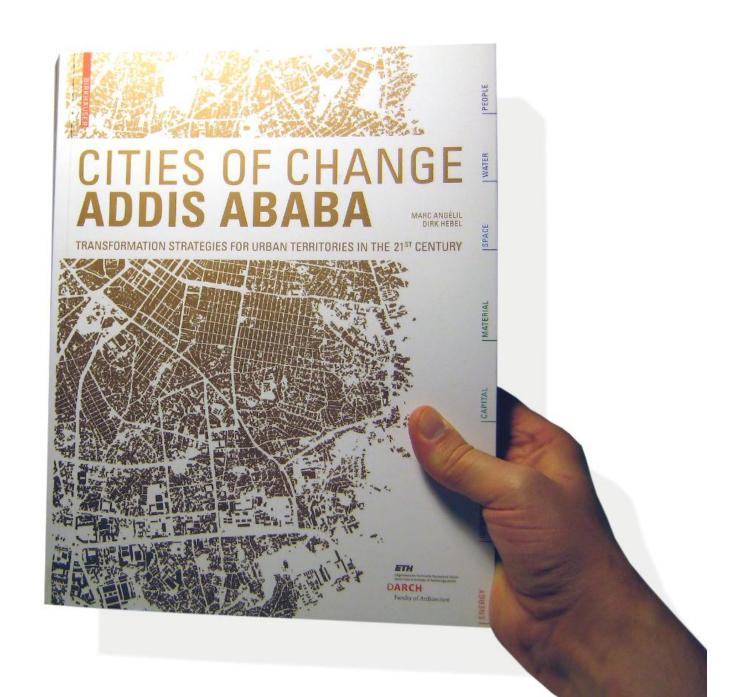
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216 // INFORMATION



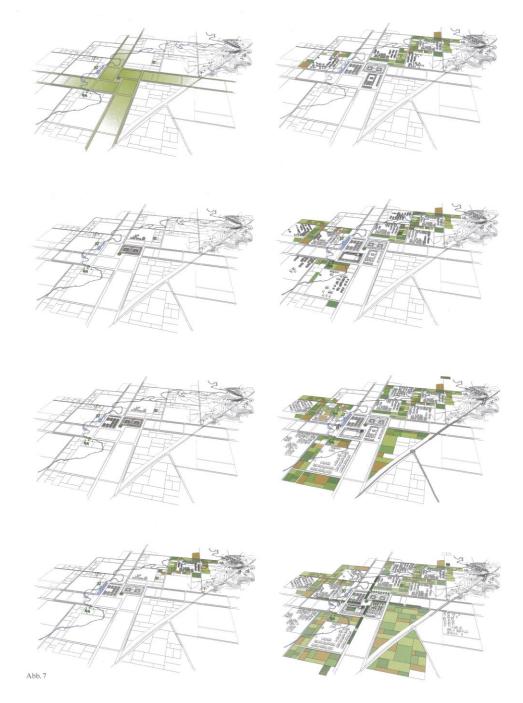






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# Singapore ETHiopia Urban Laboratory (SEUL)

REVIEW IV - FCL / Module VI, Project B: Designing Territory

# SEUL-Team

Franz Oswald Benjamin Stähli Dejene Liramo Lara Davis SEC

Eugene Tan Kelly Koh Nigist Gebrehiwot

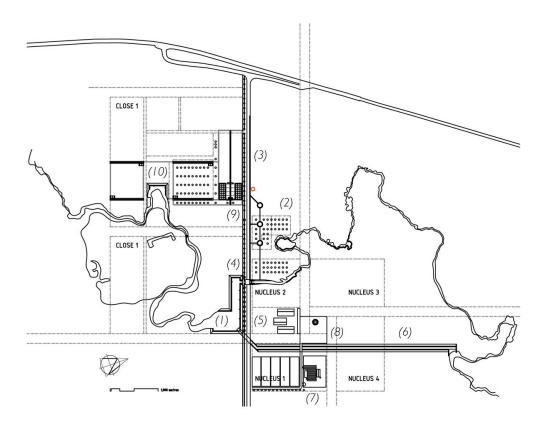
Singapore, August 8-9, 2011











## Water Basin (1)

The this year rainy season brought heavy showers and lasted exceptionally long. Even now, the Shene River contains water which makes it almost impossible to stabilise the bank of the water basin. Since it is expected that river dries out within the next four weeks, gabion reinforcement and dam with gate can be installed by the end of February.

#### Tree Nursery (2)

In November, ORDA (Organisation for Rehabilitation and Development in Amhara) erected 200 metre fence and an implement shed. For the shifting of the tree seedlings an adequate water supply is still missing, which - accordingly to the cost sharing agreement - has to be provided by ethiopian partners. In combination with the building of the alley Road, rainwater cisterns for the tree nursery could be installed till May and with begin of the rainy season, in June or July, the surface runoff of the alley road collected.

## Alley Road (3)

On Wednesday, the 7th of December, a depot for machines and tools, was installed about a kilometre to the northwest of Bura. The round 1,000 metres alley road is going to be constructed together with a road in the surrounding of Yifag and shall be completed by March. Connexions to the bridge as well as the water channel underpass will follow later on.

## Bridge (4)

In charge of the river crossing, the ARRA (Amhara Rural Road Authority) will finalise the design till the end of 2011. Supposing that the required budget of ETB 1.9 million shall be provided on time, the construction of the beam bridge, with a span between 10 and 12 metre, can be constructed till March.

## Town Factory (5)

At this moment Tekleheimanot is giving training to five apprentice masons from Bura in Bahir Dar. Exercises for carpenters, tin workers and artisans will succeed. In Bura, the excavations for the foundation has already started,

#### Water Channel (6)

Ato Sissay from the Water Bureau is highly motivated drawing a topographical map of Bura and a comprehensive drainage and irrigation plan include a release channel. The Water Bureau expects to be finish with the plans by the end of this year.

## Nucleus 1 Campus (7)

Tibebu Daniel and Dejene Liramo are working on the architectural on structural plans of the campus as a boarding school, out of which ADA Amhara Development Association) and the BuraNEST Steering Group, in March, shall ascertain the eventual realisation.

## Town Square (8)

In view of the visit by the swiss housing association ABZ (Allgemeine Baugenossenschaft Zürich) in early spring, the town square podium should be constructed by March. On September 27, during the the celebration of 'Meskel' (finding of the True Cross) a fig tree, as a symbol of the new town centre, is going to be planted by officials of the Bura-Mariam church (part of the BuraNEST Implementation Committee).

#### Rainwater Unit 01 (9)

In February we shall start with the foundation of the first Rainwater Unit. Until potential inhabitants can be found, the stone masonry will be covered with a corrugated iron sheet construction, which lead rainwater into a drainage and irrigation system.

#### Imigation System (10)

The model irrigation should be installed till the beginning of the rainy season in June or July.













