BRICKWORKS
SOSHANGUVE
Sustainable brick-making and city building in the fringes of South Africa
by Heidi Boulanger (van Eeden)
SLOW ARCHITECTURE
To suggest, rather than to impose, so that communities may develop organically and upgrade their own urban spaces over time.

INCREMENTAL DESIGN

1. **Accupuncture**
   - Basic start-up infrastructure

2. **Skills training**
   - + Education

3. **Improving start-up infrastructure**
   - + Developing immediate environment

4. **Building community**
   - + Social infrastructure

5. **Individual ventures**

6. **Creative expression**
The basic building blocks
Brick as acupuncture

[Images of brick-making and brick structures]
MAPPING URBAN ACCUPUNCTURE

Urban energy + socio-economic patterns
INCREMENTAL BRICKWORKS
Modularity and phased development
TYPICAL EDGE CONDITION
Movement, markets and the informal economy
SYSTEMIC BRICKWORKS

Industrial ecology

BRICK PROCESS

INDUSTRIAL STAGES

1) extrusion from quarries and clay delivery
2) preparation
   a) sorting
   b) mechanical crushing
   c) sieving
   d) proportioning
   e) mixing
   f) tempering with pugmill
   g) testing
3) brick shaping
4) drying (solar drying with hacks)
5) firing
   a) pit/pitless intermittent kiln
   b) hybrid typology with fixed chimney
   c) fly ash to be recycled and re-used in clay/agriculture
6) transportation
7) pottery & clay market
SURROUNDING LANDSCAPE
FURTHER RESEARCH

Hemp brick

Rehabilitated quarry reservoir

Rural brickmaking - Tanzania

Mycellium bricks

Rehabilitated quarry park

Rural brickmaking - Burundi

technology   environment   community