Facilitating the Development of the Peri-Urban Brick Industry in Rwanda

A Project of the Swiss Agency for Development and Cooperation SDC
implemented by Skat Consulting Ltd

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Metrolab, May 26th Kigali City, RHA Building Material Centre
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Part I:
Introduction
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Switzerland
Swiss Agency for Development and Cooperation SDC

Rwanda,
Ministry of Infrastructure MININFRA

Rwanda,
Housing Authority RHA

Skat Consulting Ltd.’s linkages to the Rwandan Authorities
Our Mandate:

Supporting the transformation of the brick sector into a competitive industry
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Nepal
South Africa
India
Pakistan
Afghanistan

Kigali Rwanda, 200m up the road

SDC ‘s and Skat Consulting’s worldwide support to the brick industry skat Swiss Resource Centre and Consultancies for Development
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Part I: Problem Statement
Rwanda’s cities rely heavily on imported cement and steel...

Estimated market share of cement products: 70%
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Figure 10. Relationship of Income to House Prices in SSA


...which is a loss of capital, jobs and makes construction expensive
The supply of cheaper, locally made bricks is low and of poor quality.
Traditional brickyards cause deforestation …
...and land damage through uncontrolled quarrying of clay...
...and create hazardous working conditions to the labour
Our Objective: Transforming the sector into a competitive industry...
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Low cost model row-house by PROECCO/Skat tested in Rusizi

Simulation of a low cost row house block elevation

...capable to massively supply bricks for affordable housing
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...while creating attractive jobs for the rural young
Part III:
Territorial aspects of the development of a peri-urban brick industry
Where are the Rwandan brick and tile yards located?
Many permanent kilns have been established in the past...
…but often at unsuitable locations and been later abandoned
Where are zones which allow a modern brick industry to grow?
Where to find skilled labour and the good infrastructure?
Most important: Where to find sufficient raw material and fuel?
Most important: Where to find sufficient raw material and fuel?
Where is sufficient raw material and fuel available?
Where is brick industry in conflict with the environmental law?
Maps have been created for authorities and investors...
...and been integrated in District Land Use Plans...
...and made available online on a web-map for investors
Part IV:
Other services offered to the public and private sector
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We help customers to find new local products via the web map... skat Swiss Resource Centre and Consultancies for Development
...and map all other key stakeholders in the building industry...
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We equip this centre as exhibition, training, lab & sales point...
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...and sharing technical information on an online knowledge base
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We support investors in business planning and accessing credits... skat Swiss Resource Centre and Consultancies for Development
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...and in designing and building brickyards and brick factories...
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We train their staff in managing and operating the new facilities... skat Swiss Resource Centre and Consultancies for Development
... and local workshops to manufacture brick making machinery
Housing investors can access affordable urban model houses...
... for cost effective construction of storied urban houses
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Densification zone for rent or sale, financing (or at least contributing to) the upgrading or replacement of the existing owners/dwellers’ houses.

In zones with medium to high land prices, cost-neutral upgrading can be possible.

A unplanned neigbourhood
Total Floor Area: 6000m²
Total Floor Area: 6000m²
After replotting & densification

... creating dense and well organised, attractive neighbourhods
Thank you for your attention
How much do they produce?