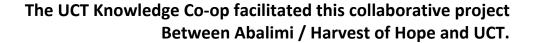
passive veggie stand A SOCIAL OUTREACH PROJECT

IN PARTNERSHIP WITH



CAMILLA ALLAN | LEIGH STEELE | ZENI WILLIAMS-JONES





See http://www.knowledgeco-op.uct.ac.za or Contact us at barbara.schmid@uct.ac.za / 021 – 650 4415

PHASE 01 MEETING WITH HARVEST OF HOPE







Mama Kaba's vegetable gardens

PHASE 01 MEETING WITH HARVEST OF HOPE







Mama Kaba's vegetable gardens

PHASE 01 MEETING WITH HARVEST OF HOPE







When the farmers harvest the vegetables they sort them into these plastic crates

PHASE 02 MEMORANDUM OF UNDERSTANDING

Points agreed upon with community partners:

- Aims of the project:
 - To enable selling of surplus produce to create a quick turnover that will help to grow the garden as an enterprise.
 - To break the isolation of the garden and help to integrate with the community
- Selling of fruit and vegetables at the stand would be between 3-6pm on weekdays and daytime on weekends.
 During sale hours the gardeners would like to place the stand just inside the garden gateway.
- Optimal crate material = plastic (issues of hygiene and food safety)
- Shade from the sun for fruit and vegetables and for seating behind the stand.
- · Passive cooling measures to keep produce as fresh as possible
- Security ability to lock the stand up at night
- Able to remove crates and add partitions for easy sorting while harvesting
- Possible wheels on stand to be able to move around easily
- Research into costing and budget implementation and possible donor funding

PHASE 03 WORK PLAN AND SCHEDULE

DATE	ACTION	
10 March	Site visit to Harvest of Hope and Mama Kaba's garden	
17 March	Group meeting: review of site visit, allocation of responsibilities	
MID-TERM VAC		
21 April	Group meeting: review research, idea session	
26 May	Group meeting: review individual first design drafts, discuss and suggest adjustments	
WINTER VAC		
18 July	Group meeting: discuss second draft of design and make adjustments	
4 August	Group meeting: finalise design	
MID-TERM VAC		
5 September	Start to compile project (research, design drafts, final design, costing implementation, etc.)	
11 October	Complete and submit project	

TEAM MEMBER	ALLOCATION OF RESPONSIBILITIES
Camilla	Taking photographs, design drawings; research: ergonomics
Leigh	Recording interviews and compiling aims of the project; admin – emails, reports, work plan and schedule; research: feasibility and cost
Zeni	building design model; research: passive technologies and existing precedents

*all team members contribute in the actual designing process (i.e. with sketches, brainstorming sessions, etc.)

PHASE 04

RESEARCH: EXISTING PRECEDENTS







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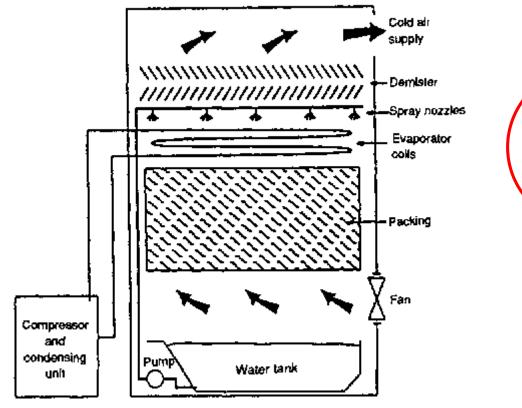
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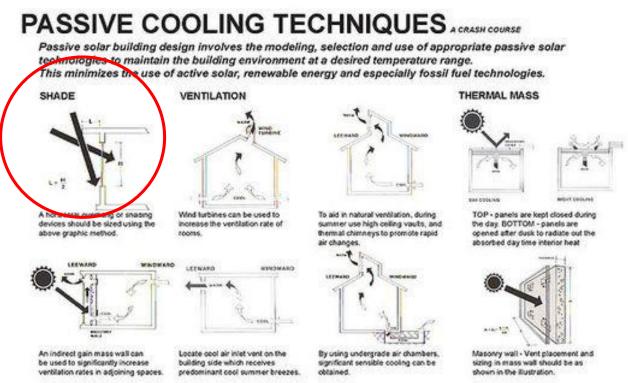


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PHASE 04

RESEARCH: PASSIVE TECHNOLOGIES

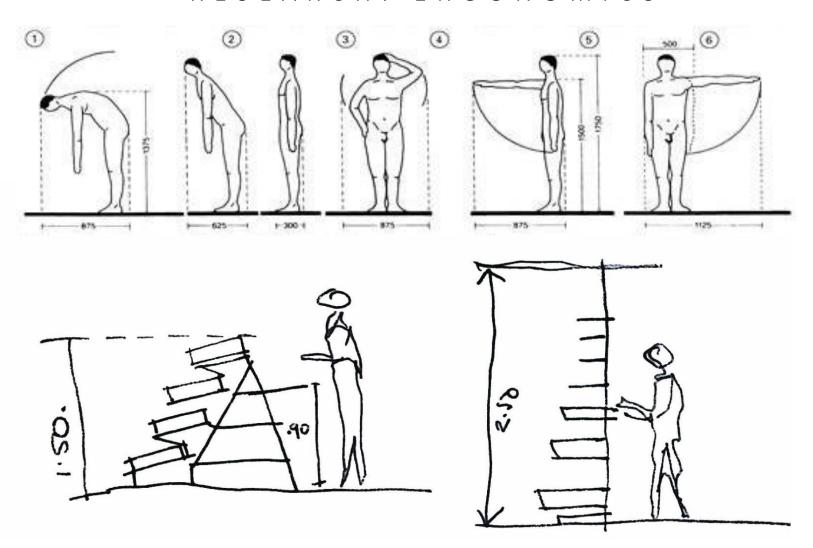




Source www.azsolarcenter.com

PHASE 04

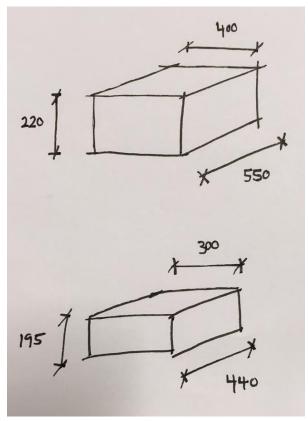
RESEARCH: ERGONOMICS



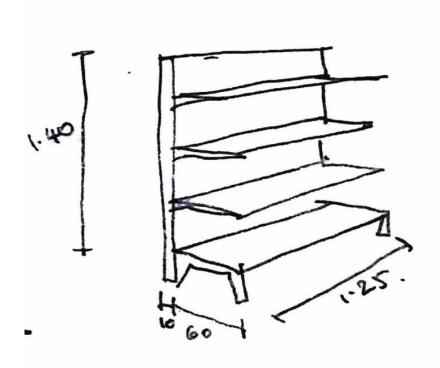
PHASE 05 CONCEPT & DESIGN



The concept for the design came out of an idea to make use of the existing vegetable harvest crates to hold the vegetables. The farmers harvest the produce into the crates and then any leftover crates of vegetables are slotted into the stand.

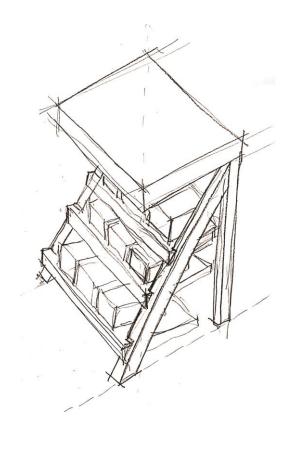


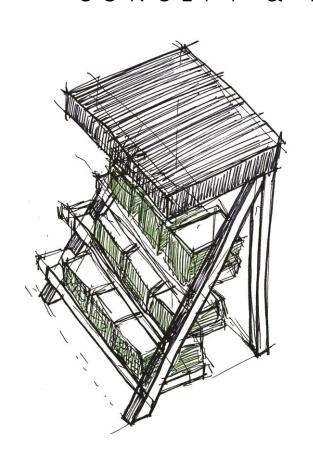
Crate measurements (in mm)

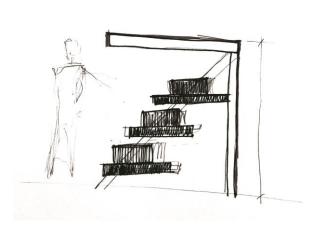


Concept sketch with dimensions (in mm)

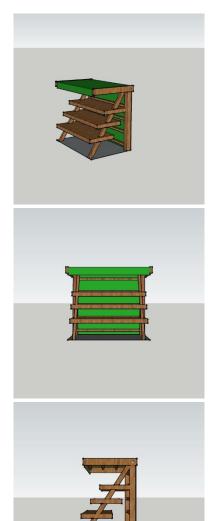
PHASE 05 CONCEPT & DESIGN







The design consists of a timber framework holding up a 'roof' of shade cloth and three stepped shelves, on which the crates will sit. The shade cloth can be rolled down over the sides of the structure, to keep the vegetables cool.



3D model views of proposed design.

PHASE 06 RESEARCH: FEASIBILITY AND COST

To carry out once design is in place.

(source reference)