





How will the everyday food market be articulated in the 21st century urban environment? In this study the importance of food is clear not only for survival but also as adhesive in human relationships. When the architect is faced with the fact of how many people in the city do not have enough to eat, is it the architects responsibility to design a place that may better the situation? If architects are the ambassadors for the future, the future of the food markets needs to change to establish a better situation for the producer as well as the consumer.

The food market must give enough opportunity to adapt and be flexible so that people could express themselves. Unlike

the supermarkets of today that are cold, reserved and where produce magically appears on shelves, the new food market is stripped from pretence. This gives integrity and transparency back to the city.

By reinstating the human interaction in the retail of food an active community is mobilised. A place is created where the interaction between people as well as their interaction with the environment could flourish. Theunique way of delivery enables not only transparency and connection with the rural, but also efficiency. The four characters that were created in the dissertation were used to illustrate how the users could consume the space. Their daily

routines are intertwined with the space created in the market. The market fits into the urban fabric and thus strengthen the dialogue that the characters have with the city. This gives the architecture viability in the everyday and the lives of the users.

What Robert A.M. Stern commented on when he said that architects design life out of buildings are here contradicted as life itself was the inspiration. The market is articulated in the 21st century as a place of engagement, belonging and celebration. The control of the space as well as the management of the market is in the hands of the consumers. The success of the project is dependant

on the way the users will consume the space as the four characters did.

The proof of this pudding is in the eating. Let us feast the city.





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Bibliography



Books

Alexander. C.(et al)1977. A Pattern Language. Oxford University Press. New York.

Berke, D. Harris Steven. 1997. The Architecture of the Everyday. Princeton Architectural Press. New York.

Behrens, R. Watson, V. 1997. Making Urban Places, Principles and Guidelines for layout and planning. UCT Press. Cape Town.

Chang, D. 2008. The 2009 flux trend review. Food and Entertaining, Andrea Burgener. Macmillan. Johannesburg

Cheng, I. Tschumi B. 2003The State of Architecture at the Beginning of the 21st Century. The Monacelli Press. Columbia Books of Architecture. New York.

Index. 1999. Basics. Cook, P. Spiller, N. The power of contemporary architecture. Academy Editions. London.

Horwitz, J. Singley, P. 2004. Eating Architecture. The MIT Press. Cambridge, Massachusetts. London, England.

Le Roux et al. 1993. Plekke en geboue van Pretoria : 'n oorsig van hulle argitektoniese en stedelike belang. Stadsraad van Pretoria. Pretoria.

Lynch, K. 1975. The Image of the City. Cambridge: M.I.T. Press.

Pfeiffer, D. 2006. Eating Fossil Fuels. New Society Publishers. Gabriola Island. Canada.

Porter, T. 2004. Archispeak. Spoon Press. London.

Sieverts, T. 2003. Cities without Cities, An interpretation of the Zwischenstad. Spoon Press. London

Steel. C. 2008. Hungry City. Random House. London.

Tschumi, B. 1994. Manhattan Transcripts. Academy Editions. London.

Versfeld, M. 1985. Pots and Poetry. Tafelberg. Cape Town

Versfeld, M. 1991. Food for Thought, a Philosopher's Cookbook.

The Carrefour Press. Cape Town.

Waterson, R. 1997. The Living House, An Anthropology of Architecture in South-East Asia. Thames and Hudson. London

Journals

Beattie, M. 2008. Hybrid Bazaar Space Journal of Architectural Education.

Jones, PB. 1996. An Anthropological view of Architecture. Architectural Design. Vol 66 No 11.

Melhuish, C. 1996. Editorial: Why Anthropology? Architectural Design. Vol 66 No 11.

Alkayyali, A. 2008. OMG 310 Presentation, Central Market – Burkina Faso. Univesity of Pretoria.

Article

Van Rooyen, D. 2009. Jan Taks net na kos en behuising in ry vir SA se geld. Rapport Nuusfokus. 27 September 2009.

Websites

Abahlali_3. 2008. APF: Evictions underway in Schubart Street, Pretoria following tragic blaze. http://abahlali.org/node/3802 Accessed on 12 April 2009

Archiseek. Mercat Santa Caterina, Barcelona http://spain.archiseek.com/catalunya/barcelona/santacaterina.html Accessed on 20 April 2009

BBC. Wall Street Crash and the Depression http://www.bbc.co.uk/schools/gcsebitesize/history/mwh/usa/ Accessed on 24 May 2009

Beachhead, FD. Press Release. http://www.compcom.co.za/resources/Media%20Releases%202009/PR013_2009.pdf Accessed 27 Augustus 2009

Duvehnhage, H. Te min voedsame kos knel tot 12 m. http://www.sake24.com/articles/default/display_article. aspx?Channel=News_Home&ArticleId=6-2067_2554881&IsColu mnistStory=False> Accessed on 2 October 2009

Glancey, J. 2005. Foodie heaven http://www.guardian.co.uk/world/2005/aug/08/spain.foodanddrink Accesed on 26 May 2009

Imomus 2005. So bad it's good: Koolhaas on Lagos http:// imomus.livejournal.com/124794.html> Accessed on the 26 May 2009

MVRDV. 2008. Markthall. http://www.mvrdv.nl/#/projects/retail/261markethall Accessed on 20 April 2009

Nakada, H. 2008. Yokohama, an environmentally friendly city http://ourworld.unu.edu/en/2008/08/26/yokohama-an-environmentally-friendly-city/ Accessed on 26 May 2009.

NG. 2009. Neighbourgood market. http://www.neighbourgoodsmarket.co.za/ Accessed on 11 March 2009.

SAHO. Socio-economic development from 1924 – 1948 http://www.sahistory.org.za/pages/hands-on-classroom/classroom/pages/projects/grade12/lesson17/02-agriculture.htm Accessed on 24 May 2009

SAHO. A Broad Overview of Early Trading Systems(http://www.sahistory.org.za/pages/hands-on-classroom/classroom/pages/projects/grade7/lesson5/04-slave-trade> Accessed on 24 May 2009

SAHO. The First Anglo-Boer War (Transvaal war) http://www.sahistory.org.za/pages/governence-projects/anglo-boer-wars/ anglo-boer-warli.htm> Accessed on 24 May 2009

SDC. 2007 Burkina Faso: SDC architectural project wins prestigiousaward http://www.sdc.admin.ch/en/Home/News/Close up?itemID=158695> Accessed on 27 May 2009

Sudjic, D. 2000 He likes brutality and shopping. He's going to be the next big thing http://www.guardian.co.uk/theobserver/2000/nov/26/2> Accessed on 26 May 2009

Tshwane. 2006. Tshwane Market breaks through the R1 billion turnover mark!\http://www.tshwane.gov.za/tshwanemarket/BillionRecord.pdf> Accessed on 14 April 2009

Unknown. Rampe wat Suid-Afrika getref hethttp://www.mieliestronk.com/sarampe.html Accessed on 24 May 2009

Unknown. 2007. Metropol Parasol, Seville, Spain http://www.designbuild-network.com/projects/metropolparisol/ Accessed on 20 April 2009

Unknown.2007 Metropol Parasol Arquitectura, España http://www.e-architect.co.uk/spain/seville_plaza.htm Accessed on 20 April 2009

WAN. 2008. MVRDV Architects design new market hall in Rotterdam. http://www.worldarchitecturenews.com/index.php?fuseaction=wanappln.projectview&rupload_id=1913 Accessed on 20 April 2009

Moerdyk. 2009. Food price fiasco http://www.news24.com/ Content/Columnists/ChrisMoerdyk/1036/c64db337c01141099053 020ee2ccdde2/27-07-2009%2007-07/Food_price_fiasco> Accessed on 01 October 2009

Interviews,

Ling, P. Interview with Pearly Ling, General Manager – Store Planning – National Operations. Pick n Pay. 19 May 2009

Van Wyk, J. Interview with Johan van Wyk, Co-ordinator of Boeremark.

Rautenbach. Interview with R. Rautenbach Marketagent for Du Plessis and Wolmarans Marketagents. 21 April 2009.

Visser, JM. Interview with Jean-Marie Visser. Kindergarten teacher near Schubart Park. July 2009.

