



AHK

Southern African - German Chamber of Commerce and Industry
Deutsche Industrie - und Handelskammer für das südliche Afrika



The German Chamber Network 

Best practices and lessons learned in transferring sustainable technology from science to the market

Frank Aletter, Southern African - German
Chamber of Commerce and Industry

Important areas for the application of sustainable technology in South Africa

- Agro technique
- Primary and secondary resources and their use
- Food production and food processing
- Energy / water/ waste (supply as well as disposal)
- Transport
- Logistics
- Basic Infrastructure
- Civil engineering

Photovoltaic

Application for Photovoltaic to generate energy in



Source: Solarworld AG

- Commercial sector
 - Mining
 - Hospitals
 - Shopping Malls
 - Gyms
 - Car rentals
- Households
 - Residential
 - Rural area

Lightning Control in Offices



C-Bus gives you full control of your building environment at the simple touch of a button, touch screen or via a web page. Based on a simple, extendable, and easy to install solution, C-Bus gives you a platform that ensures you get the best out of your building environment. From Office boardrooms to 90,000 seated stadiums, individual circuits or groups of circuits, control is possible. Utilising occupancy detectors, ambient light level sensors, temperature control maximise energy efficiency. But with an ability to interface to third party devices, C-Bus can be considered as more than a lighting control system.

Terminals for Mobile Citizen Services - The Office in a Box



Source: Fraunhofer Heinrich-Hertz-Institut

Office of citizen services case, desktop box taken out (case: 42 cm x 43 cm x 21 cm, approx. 13 kg with desktop box)

Meeting mobile civil servants in shopping malls, on market places, in hospitals or homes for the people without transport.

At those locations, one will be able to let extend the validity of ones passport, to declare a new domicile or to let change date on a wage tax card.

Terminal systems for those kind of mobile citizen services have to fulfill very high requirements in terms of reliability and fail-safe ergonomics and usability transportability and robustness.

Challenge for Sustainable Technology in South Africa

Initial position

- Capital costs for new technology are high
- Lack of skills and training
- Integration into local system
- Security
- Technical environment

Challenge

- Development of sustainable value chains taking advantage of the existing resources and preserving the natural environment at the same time
- Processes should be developed in South Africa for the use of the local population
- But: they must be competitive in a globalized world
- Focus on development of appropriate "low tech", "high tech" and "adapted" technologies