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Helping to Bridge the Digital Divide

www.cern.ch

www.isfint.org



ISF's Objectifs

development through ICT

- **Education**
 - Computers as aid and catalysers of development through basic and academic education
- **Research**
 - Build IT capacity as infrastructure to research in African universities
- **Business**
 - Modernize equipment to improve commercial competitiveness
- **Communication**
 - Help enable global access to information, at all levels



AFRICAN GRID

Bring IT capacity to Research



- Empower African universities
- Join International Research
- Involve African universities in dev process



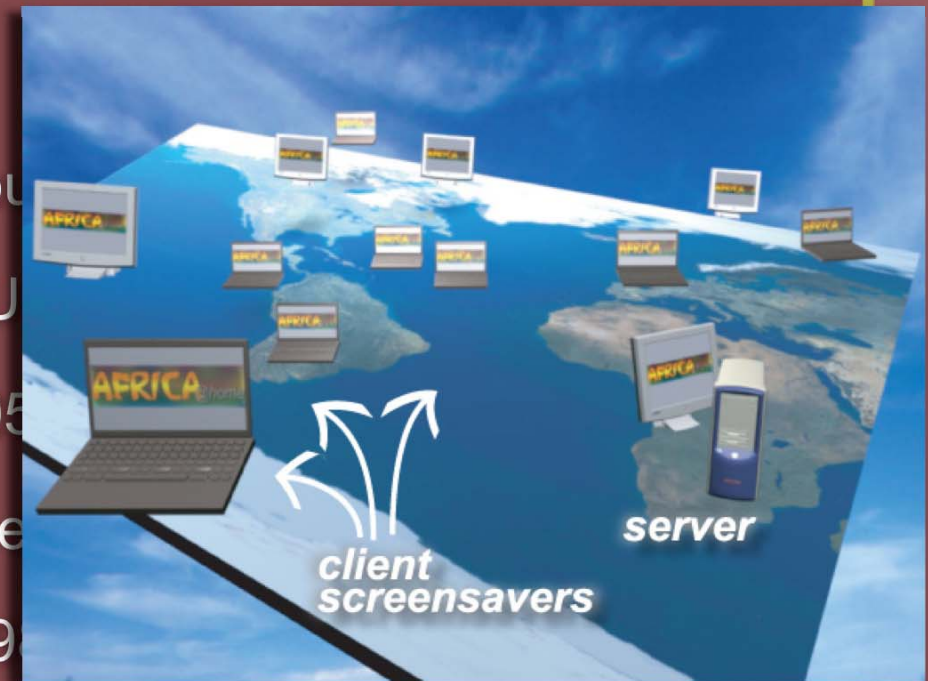
MalariaControl

An Epidemiology forecast model

@AFRICA
home



- BOINC Distributed computing
- A CERN, ISF, ICV, STI, U
- Born at CERN in 3Q 2005
- Developed by CERN Ope
- 41K users, 88K hosts, 19
- Servers in UCT and Uni-GE



www.malariacontrol.net



Project MANGO-Net

computer training and assembly centres

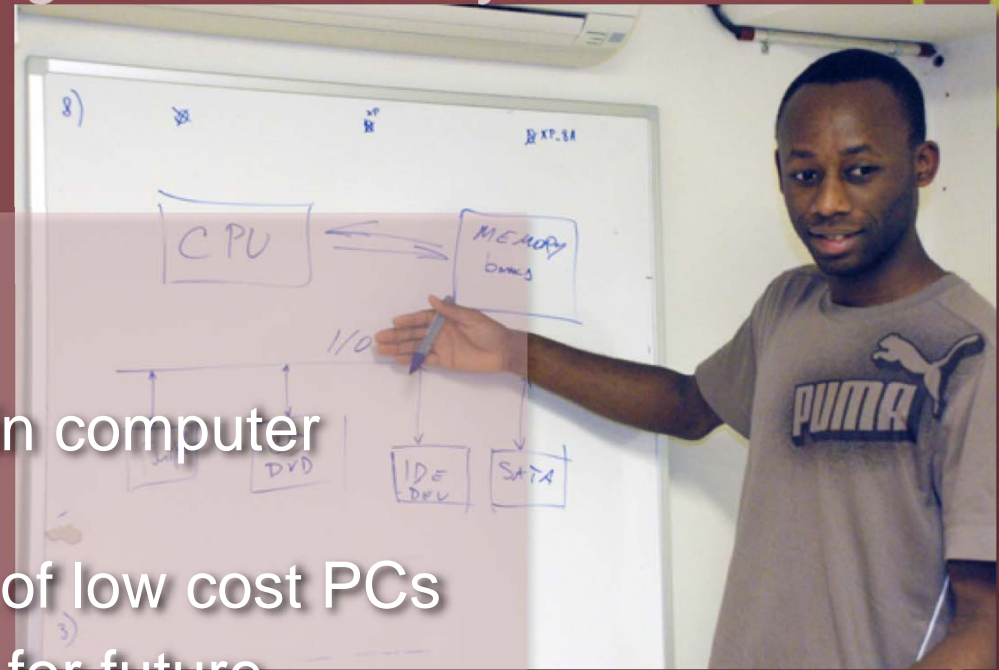


- **“Made in Africa” NGO Network**
 - A network of computer assembly schools with production labs across the continent
- **Corporate to reduce parts costs, marketing, distribution**
- **Training in assembly, support, linux admin, GRID technology**
- **Promote startups by former students**

Project MANGO-Net

computer training and assembly centres

- Goals:
 - Training IT students in computer manufacturing biz
 - Provide local source of low cost PCs
 - Create infrastructure for future business and research
 - Keep capitals (currency and brains) in the Country





Project MANGO-Net

product line



Netbooks

Desktops



Grid Servers





Project MANGO-Net

innovative technology targeted to Africa

- Netbooks
 - Low cost processors (eg. 1.6GHz <10\$)
 - On board GSM/G3
 - p/ship with WC3 – *“The Mobile Web”*
- Grid processors
 - Integrated UPS / battery
 - Liquid cooling to reduce air conditioning costs
 - R&D partnerships with manufacturers
- Software
 - Ubuntu-Linux
 - EZ-Desktop + Learning tools

Conclusion



“The road to development starts with digging the foundations of Science and building a competitive infrastructure for Research”

THANK YOU

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