



IEEE Focus on Africa

Geospatial Technology for Sustainable Development in Africa: Partnerships and Applications

Dr. Jay Pearlman

Chair, IEEE Committee on Earth Observation

Boston MA, May, 2009



IEEE in Africa

Population:

5053 in National Sections
(global = 380,000 members)

Engineering Skills:

Aerospace
Communications
Computers
Education
Electronics
Management
Medicine and Biology
Power and Energy
Remote Sensing/Sig. Proc.

Activities:

Conferences/Workshops
Societal Impact Projects
Advisory
Education (e-learning)

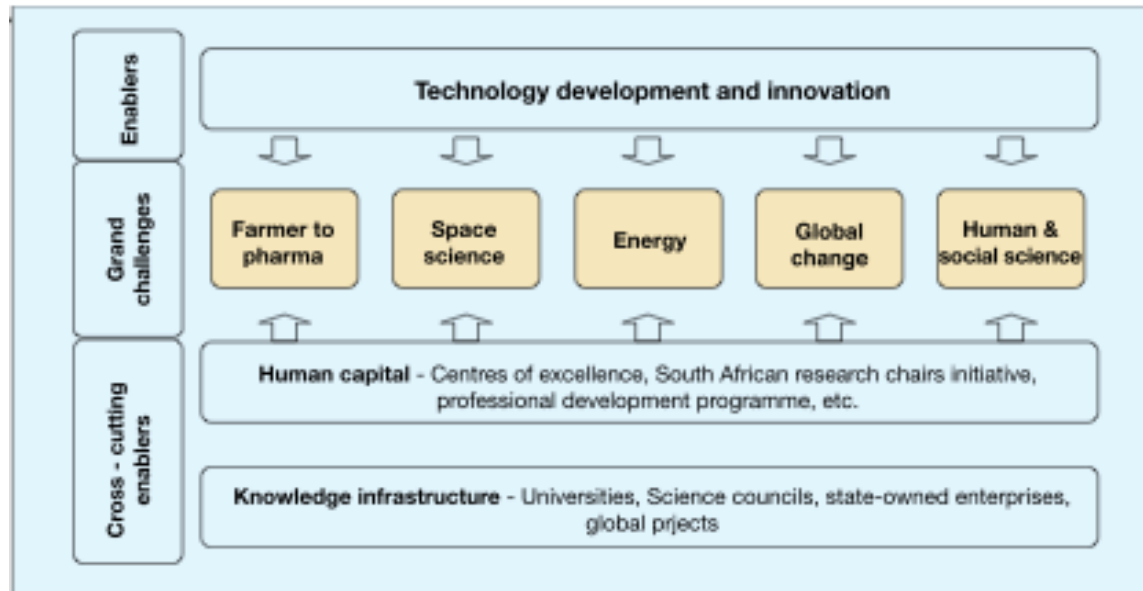




IEEE-South Africa Science and Technology Collaboration

Collaboration addresses Societal “Grand Challenges”

- Space Science and Technology
- Energy Security
- Bio-economy – Farmer to Pharma value chain
- Global Change Science
- Human and Social Dynamics

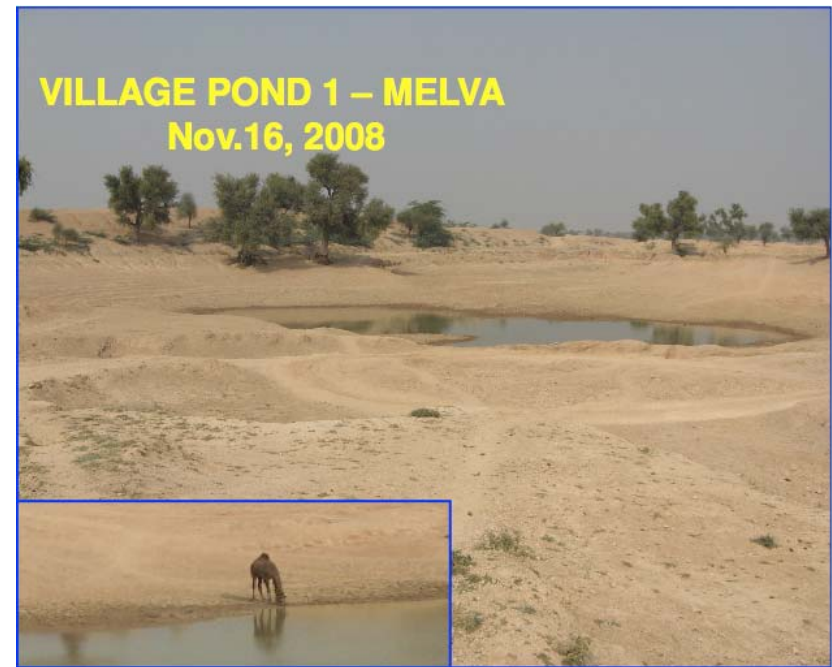




IEEE “Water for the World” Program

IEEE International Panel assesses major challenges for water availability and defines pilot projects

- Realizable in the field within one year
- developing country focus
- Sustainable
- Scalable
- Reusable
- Fundable



IEEE “Water for the World” Pilot Proposal

Accra, Ghana

GHANA GOVERNMENT FUNDS \$7 MILLION PROJECT TO FENCE OFF THE CATCHMENTS OF THE WEIJA DAM- Accra, Ghana August 2008 (GNA)



- PILOT PROJECT PROPOSED TO ADDRESS STEPS FOR ACCRA WATER SECURITY USING GEOSPATIAL TECHNOLOGY
- GEOSPATIAL INFORMATION IS ESSENTIAL FOR PLANNING AND DECISION SUPPORT



Weija Reservoir (NE of Accra)

What we do in this generation will determine the destiny of our children's children



Courtesy of
Rick Anthes

