The Trans-African Hydro-Meteorological Observatory (TAHMO - KENYA)

Aim

TAHMO seeks to develop a dense network of hydro-meteorological monitoring stations in sub-Saharan Africa: one every 30 km. This entails the installation of 20,000 such stations.

TAHMO Generation 2 Station being installed by staff of the Ghana Meteorological Agency


Mock-up of TAHMO MEM Station

Relevance

- *Innovative Sensoring*: Design of low-cost Automatic Weather stations;
- *School2School*: Educate students on climate change;
- *Business*: Develop business models that could sustain the operation of the stations installed.

Role in GT2.0 - Support

- *Task T2.1*: Technical design and integration of components per demonstration case;
- *Task T3.1*: Market Analysis;
- *Task T4.1*: Development and Implementation of the Communication strategy;
- *Task T5.2:* Project Communication and Reporting.

THE TAHMO TEAM
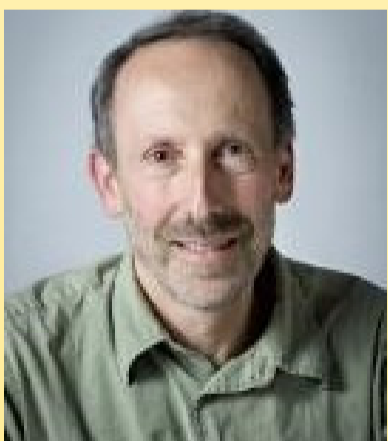
Prof. John S. Selker, **Co-Director;** Professor in Biological and Ecological Engineering. MS/PhD Agricultural Engineering, Hydrology, Cornell University; B.A., Physics, Reed College. Dr. Selker is the Co-Director and Co-Founder of TAHMO and has experience as a consulting engineer in the USA, Kenya, Somalia, Sri Lanka, Canada, and England. Additionally he has carried out scientific research in Chile, Ghana, Senegal, Israel, China, and Europe. His areas of expertise include electronic design, irrigation and water systems, and development projects. Since completing his doctoral studies, Dr. Selker has been a professor at Oregon State University for 23 years focused on Water Resources Engineering.

Prof. Nick van de Giesen, Co-Director; Professor in Water Resources Management. PhD, Soil and Water Engineering, Cornell University, Ithaca, NY. MSc/BSc Land and Water Management, Wageningen Agricultural University, The Netherlands. Since 2004, he has been with Delft University of Technology, The Netherlands, where he holds the Van Kuffeler Chair of Water Resources Management. He is the Co-Director and Founder of TAHMO. He supports the team in technical backstopping especially in data assimilation and Numerical Weather Modeling. Furthermore he supports the team in creating external linkages and acts as the quality manager for the technical equipment, installations and development of weather and water data based decision support systems.

Frank Annor is the CEO and field director of TAHMO and a lecturer at KNUST. He supports the team with the installation of Automatic Weather Stations, Database Management, modelling and overall project management. Frank received his MSc in Water Resources Management with distinction from UNESCO-IHE in Delft, the Netherlands in 2007 where he looked at flood/water monitoring for his thesis. He has over 12 years of work experience with hydro-meteorological modeling and data dissemination systems using GIS and Remote Sensing techniques as well as participatory approaches for data collection (including PGIS).

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