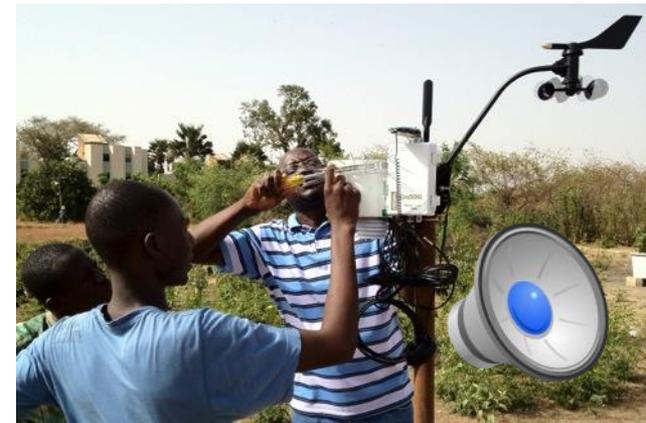


Trans-African Hydro-Meteorological Observatory



Creating African Climate Synergy

John Selker, co-Director



Your Challenge: Lead climate observation culture into this Century

Redefine

❑ What a Met Service can do.

Multiply your impact: \$1,500/station means 250 stations costs \$375,000.

❑ The line between private and public:

define goals, empower creativity, maintain excellent records, be agents to realize opportunities of climate understanding, ...

If it looks like yesterday, it is not right.

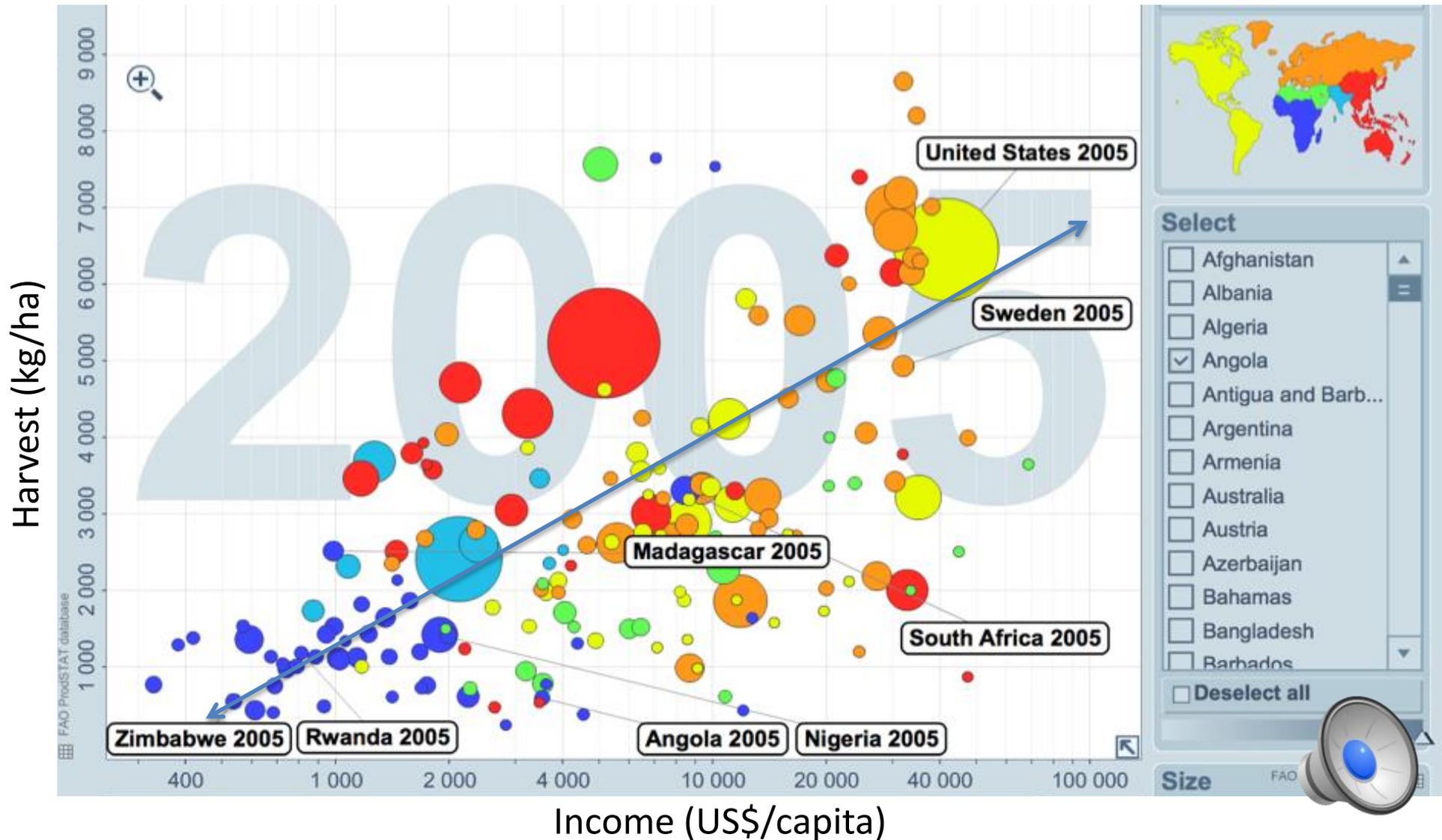
Silent Weather Stations



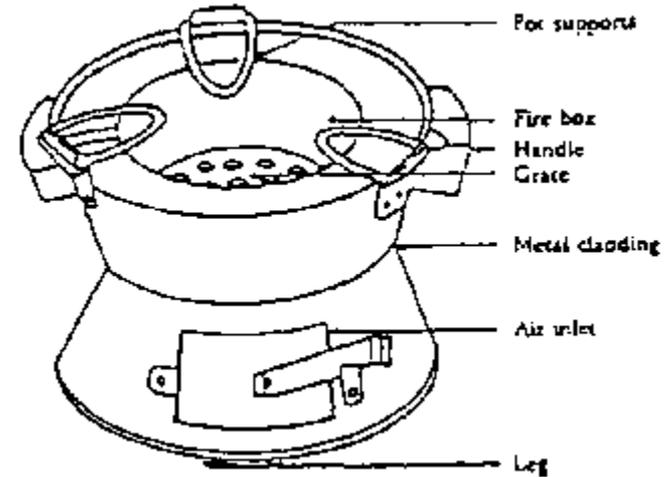
Percentage of reports received:

- 90 to 100 percent (2912 stations)
- 45 to 90 percent (697 stations)
- Less than 45 percent (325 stations)
- Silent stations (350 stations)

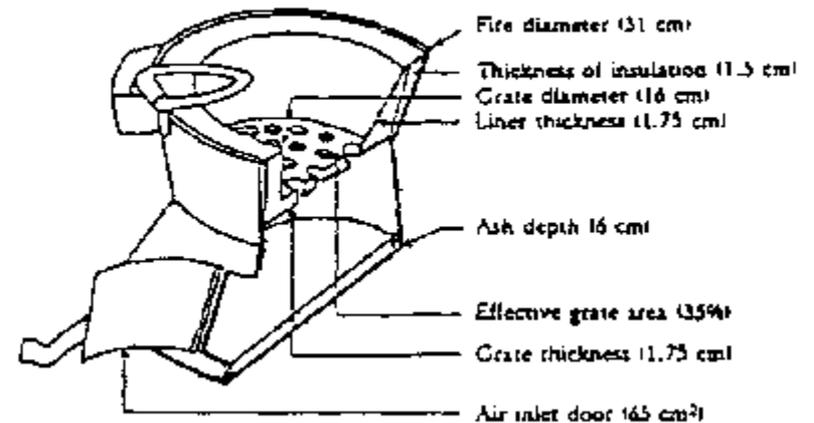
Opportunity for IMPACT



A drawing/design that change the world



Laurie Childers, 1983



Ghana - 2002

We learned it can be done in Africa

Instruments: 30 km spacing across Africa
Education: Sister Schools and curriculum
Workshops: Empower African Students
Data: Free to Government, Research



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[WEATHER STATIONS](#) ▾

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Winners Workshop Week

All about the winners workshop week & winning designs in the Sensor Design Competition 2014



Free TAHMO Course Material

Educate yourself on TAHMO related topics with free course material.



Video & Photos of the TAHMO Final Challenge 2013

The TAHMO Final Challenge is the closing of the TAHMO Sensor Design Competition 2013.

Features:

- Solar powered
- 6-mo reserve battery
- GSM communication
- GPS
- Temp (3 ways)
- Relative Humidity
- Accelerometer
- Sonic wind
- Drip-count rain
- Shortwave solar
- Barometer
- SDI-12 port



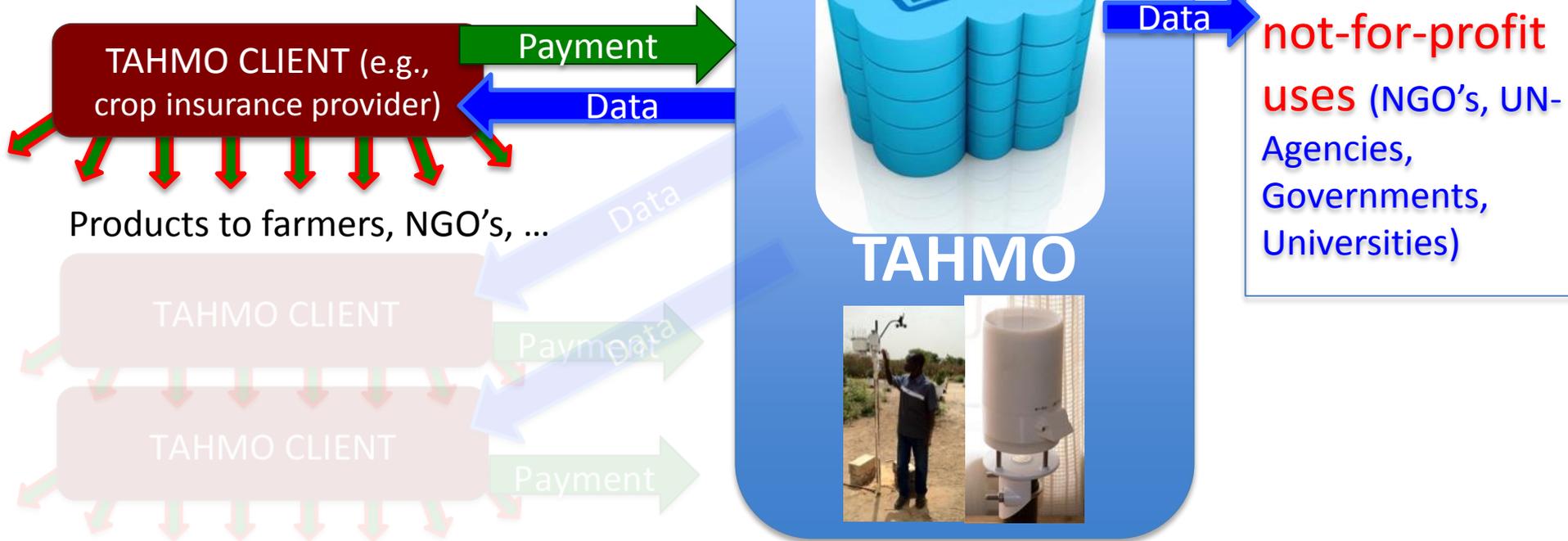






Fixing a broken economic chain

Clients: exclusive rights markets:
crop insurance; 10-day weather



Station Standards

Employ validated sensing methods,

but

Incorporate methods that leverage explosion of sensing, communication, and artificial intelligence opportunities.

Redundancy per station and within network

TAHMO Goals/Methods

- Monitor the changing African Climate at the scale of agro-hydrologic variability (30 km)
- Provide context-rich science education
- Provide data products for food security
- Engage students around the world
- Employ a sustainable business model
- Find the path by which the benefits of these data can be realized by all.