

GTTP Bringing Real Science to Classrooms



Teacher Training and Network !!!

**Train
Teachers**

**Build Teachers/Schools
Network**

**Help change curricula
across the world**

**Promote
Campaigns**

**Gather and rate good tools
and resources**

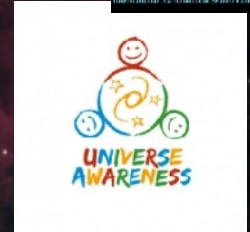


I believe I contribute to GTTP Movement 2012



**Representatives in 100 nations 15 000 teachers
trained**

Collaboration is the key!!



Open Discovery Space



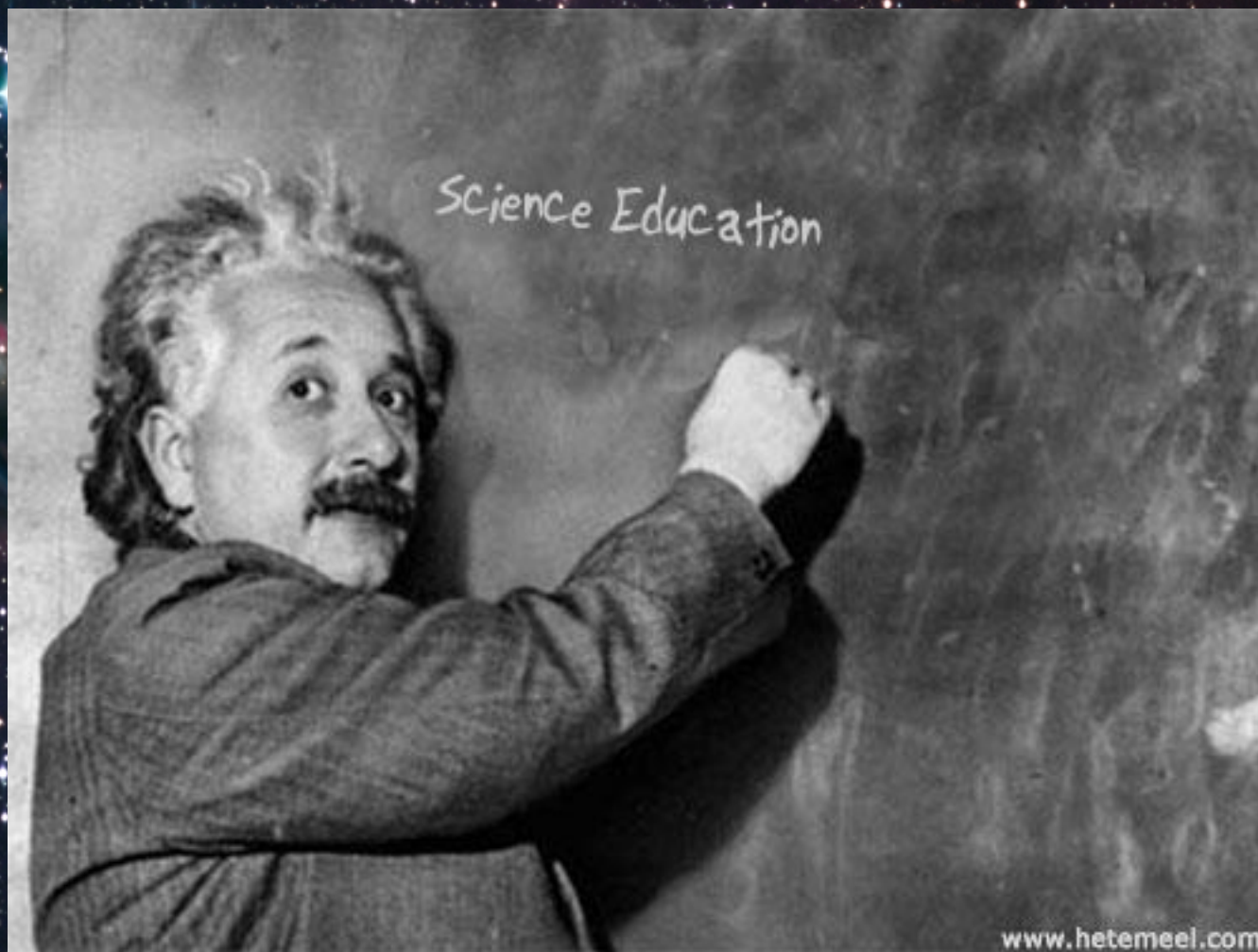
FUNDAÇÃO
CALOUSTE
GULBENKIAN





**Towards the classroom
of tomorrow**

Open Discovery Space

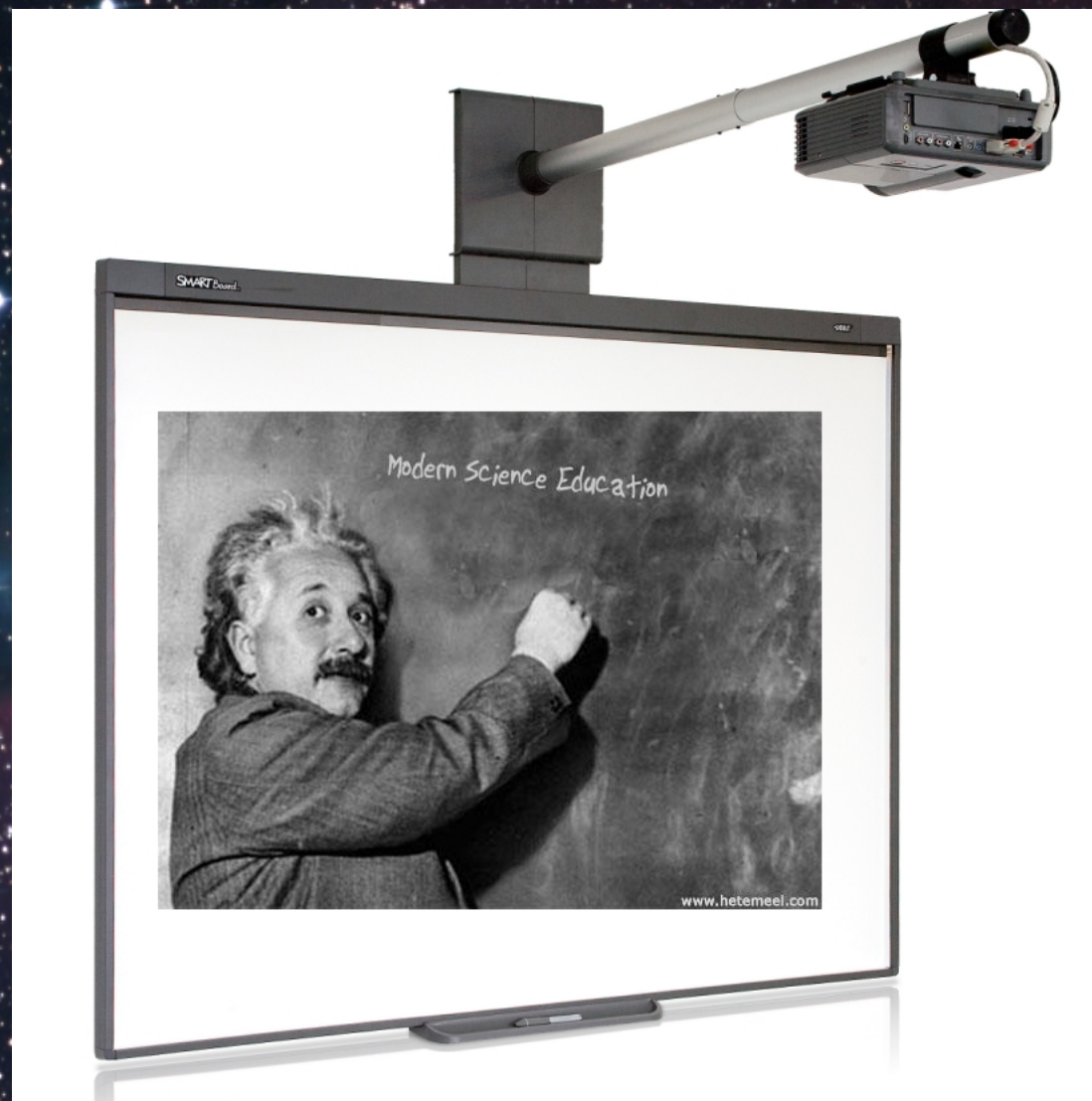


www.hetemeel.com



Partners for the International Year of Astronomy 2009

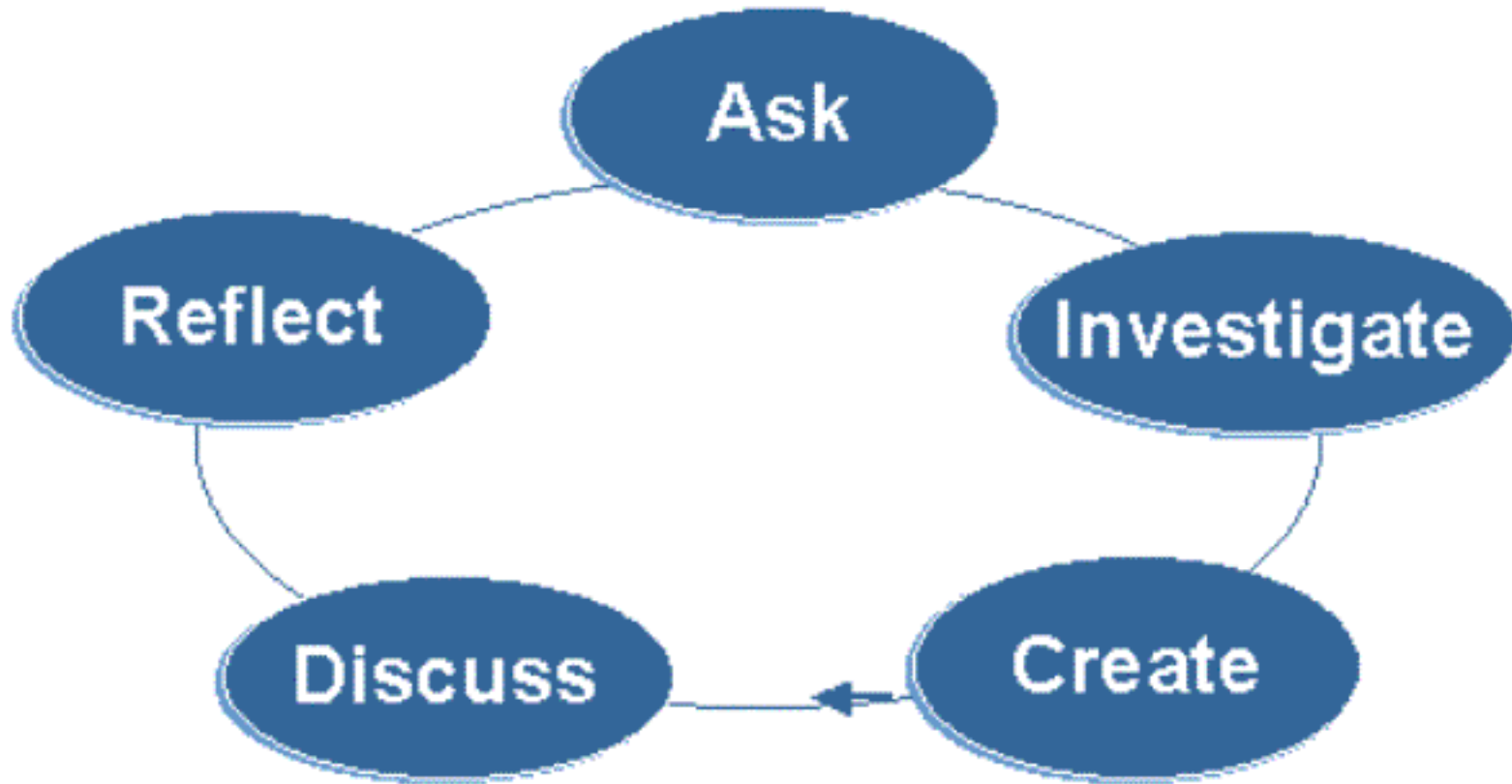




Partners for the International Year of Astronomy 2009



The Scientific Method in Classroom



Supernova Cosmology Project in the genesis of the Global Hands-on Universe Association -> GTTP model

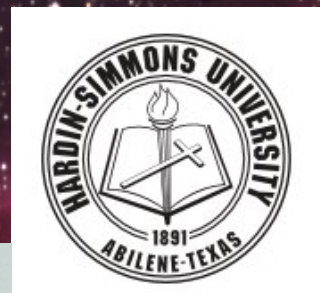


Carl Pennypacker

Nobel of Physics 2011
Saul Perlmutter, Brian P.
Schmidt and Adam G. Riess



International Astronomical Search Collaboration



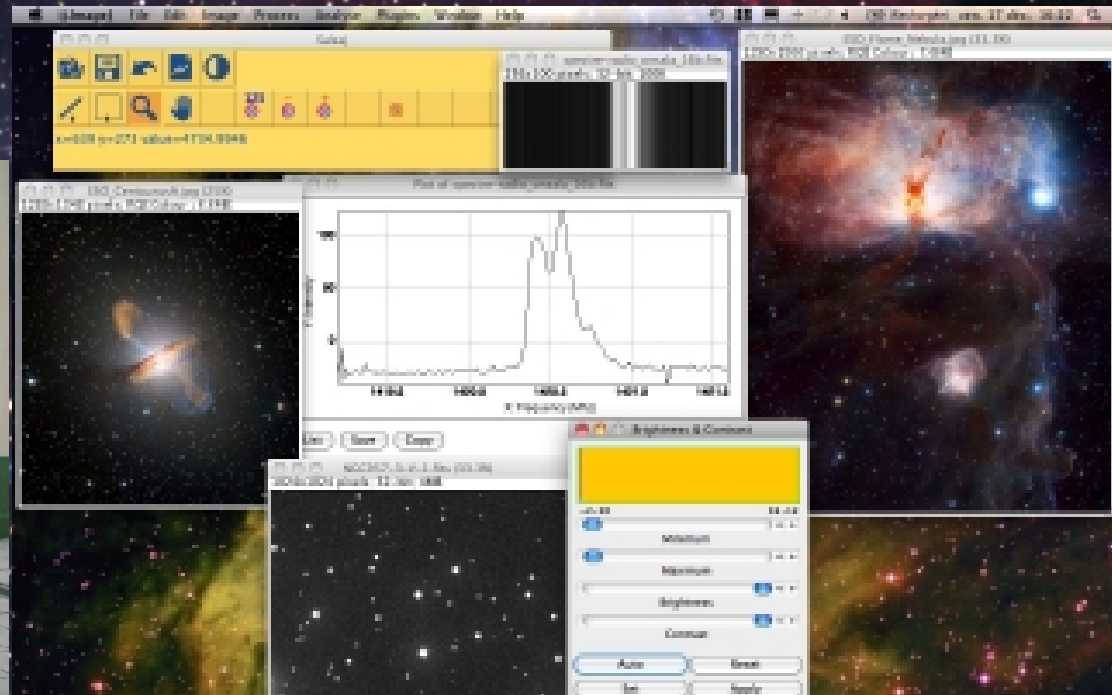
45
Countries
Over 500
Schools



Haus der Astronomie
Centre for Astronomy Education and Outreach



Researchers bringing science to schools.
- Black Hole in the Center of our Galaxy
Exoplanets
Radio Astronomy
Spectra
Image processing



GALILEO
 Teacher Training Program

Partners for the International Year of Astronomy 2009

BEYOND
 HOPKINS DALL 1998 AT
 ASTRONOMY

Strong Cooperation
between teachers

Teachers X Scientists
cooperation

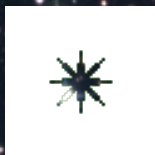


A voice to educators

Seeds in Africa

Country	GTPP Training sessions	Teachers trained in 2011
Morocco	1	10
Mozambique	2	50
São Tomé e Príncipe	3	23
Ghana	3	94
Morocco	5	76
Rwanda	1	15
Tanzania	7	67
Tanzania	4	8
Ethiopia	1	24
Mozambique	2	40
Mozambique	2	8
	31	415

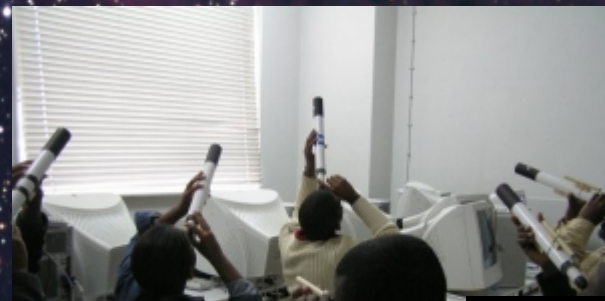
Kenya



Partners for the International Year of Astronomy 2009



GTTP PALOPs in Portugal

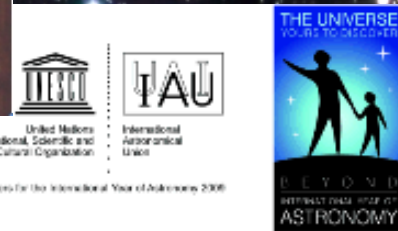
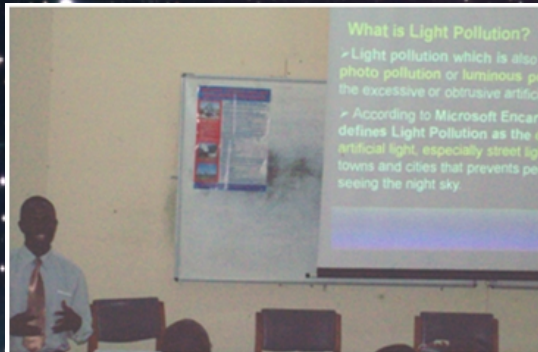


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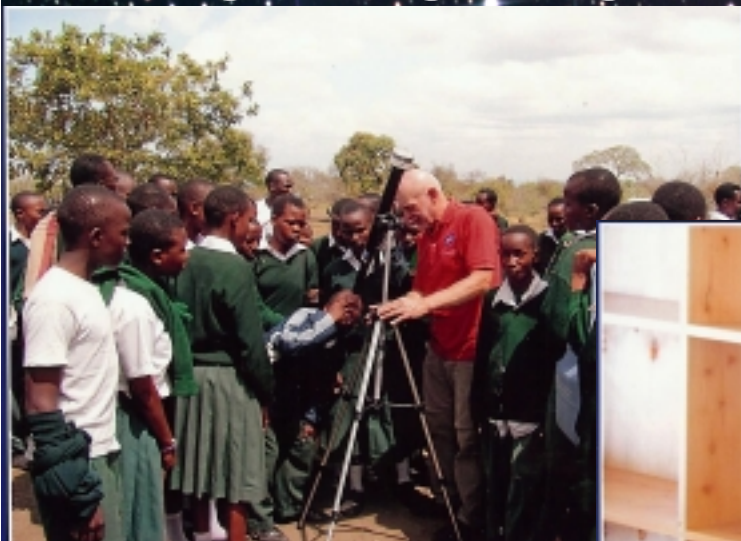
Zambia 2010



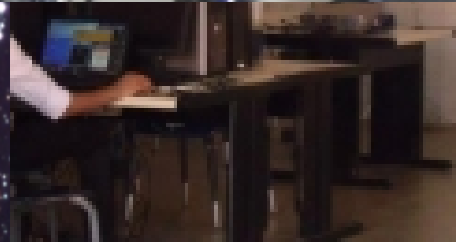
São Tomé e Príncipe



Tanzania 2011



Morroco 2012 - Ifraïne



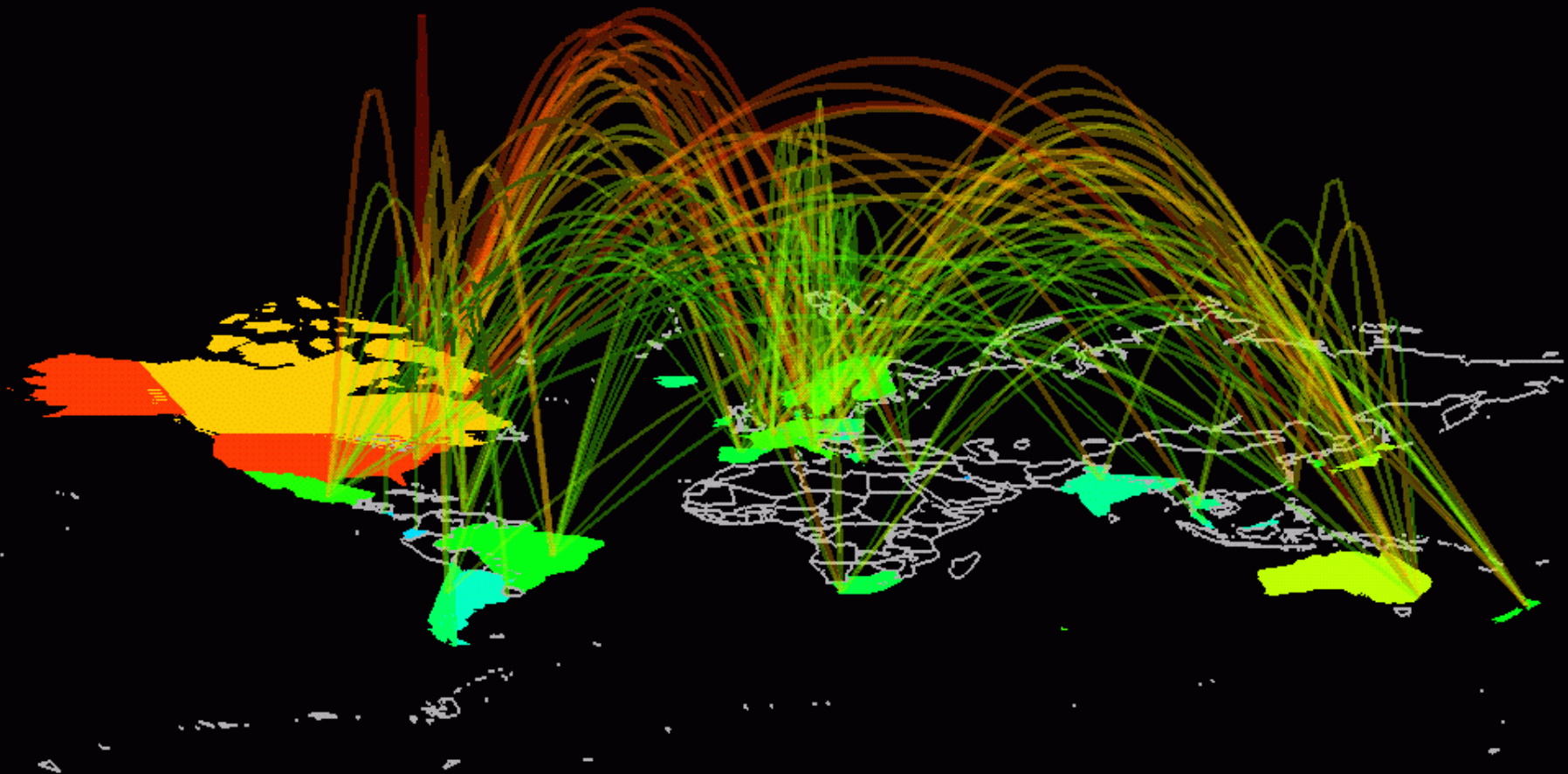
Uganda 2012

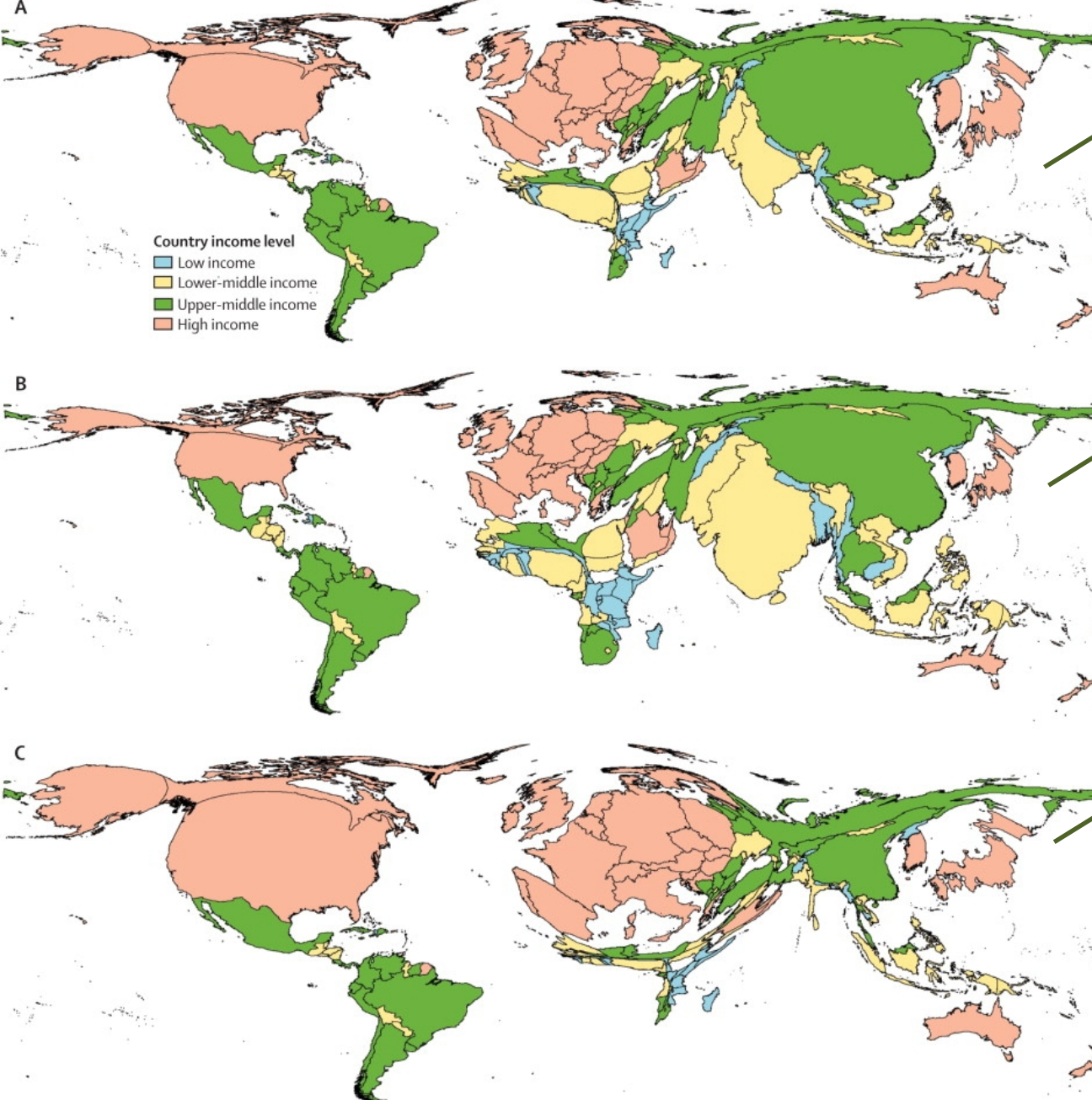


Tanzania 2012



**We are also worried about the
Digital Divide and ICT illiteracy**





Internet Users

Mobile Phone Users

Car ownership

<http://www.sciencedirect.com/science/article/pii/S0140673612607363>



Partners for the International Year of Astronomy 2009

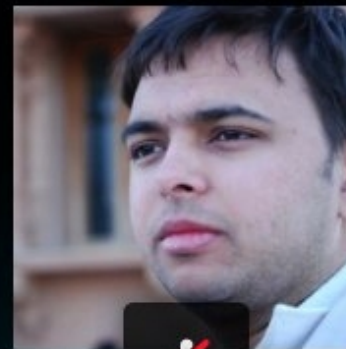


GTPP e-training / e-Lessons / Mobile Solutions



Figueiró
pinelli

Chuck Ruehle



Citizenship Awareness

Collaboration between countries

Changing the World student by student,
teacher by teacher

A treasure no money can ever buy !!



Obrigada !!!

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